Public Water System Annual Report 2024

Name:	Neepawa Water Treatment Plant
Name of Owner:	Town of Neepawa
Manager of Operations:	Denis Saquet, C.E.T.
Water & Wastewater Supervisor:	Kevin Levandosky
Operators:	Dustin Poncsak Courtney Gilmore Tyler Shannon

1. **Introduction:**

The 2024 Public Water Supply System Annual Report summarizes the water utility's ability to produce safe potable water and the Town of Neepawa's efforts to ensure compliance with provincial regulations and continually improve the water supply system.

The Town of Neepawa owns and operates its public water supply system, which is regulated by the Province's Office of Drinking Water to produce potable water under *The Drinking Water Safety Act.* In accordance with *The Drinking Water Safety Act,* the Town's water supply system operates under a provincial license. The Operating License has a five-year term and prescribes the terms and conditions required in order for the Utility to remain in compliance with the Act.

2. **Description of the Water System**

The Town of Neepawa water treatment facility provides potable drinking water to a population of 5,685 residents and business units within the Town and approximately 450 more to the Municipality of North Cypress Langford and 650 in the Rural Municipality of Rosedale.

- ***Water Supply Source***

  The Town of Neepawa sources its water from the Assiniboine Delta Aquifer by way of two well sites. The Oberon well site is roughly 19 kilometers south of Neepawa and hosts two wells with a pumping capacity of 45 litres per second. The Hummerston well site is located roughly 24 kilometers southeast of Neepawa and hosts three wells with a total pumping capacity of 47 litres per second. Raw water is pumped from either, or both sites, depending on demand.

- ***Water Treatment Process***

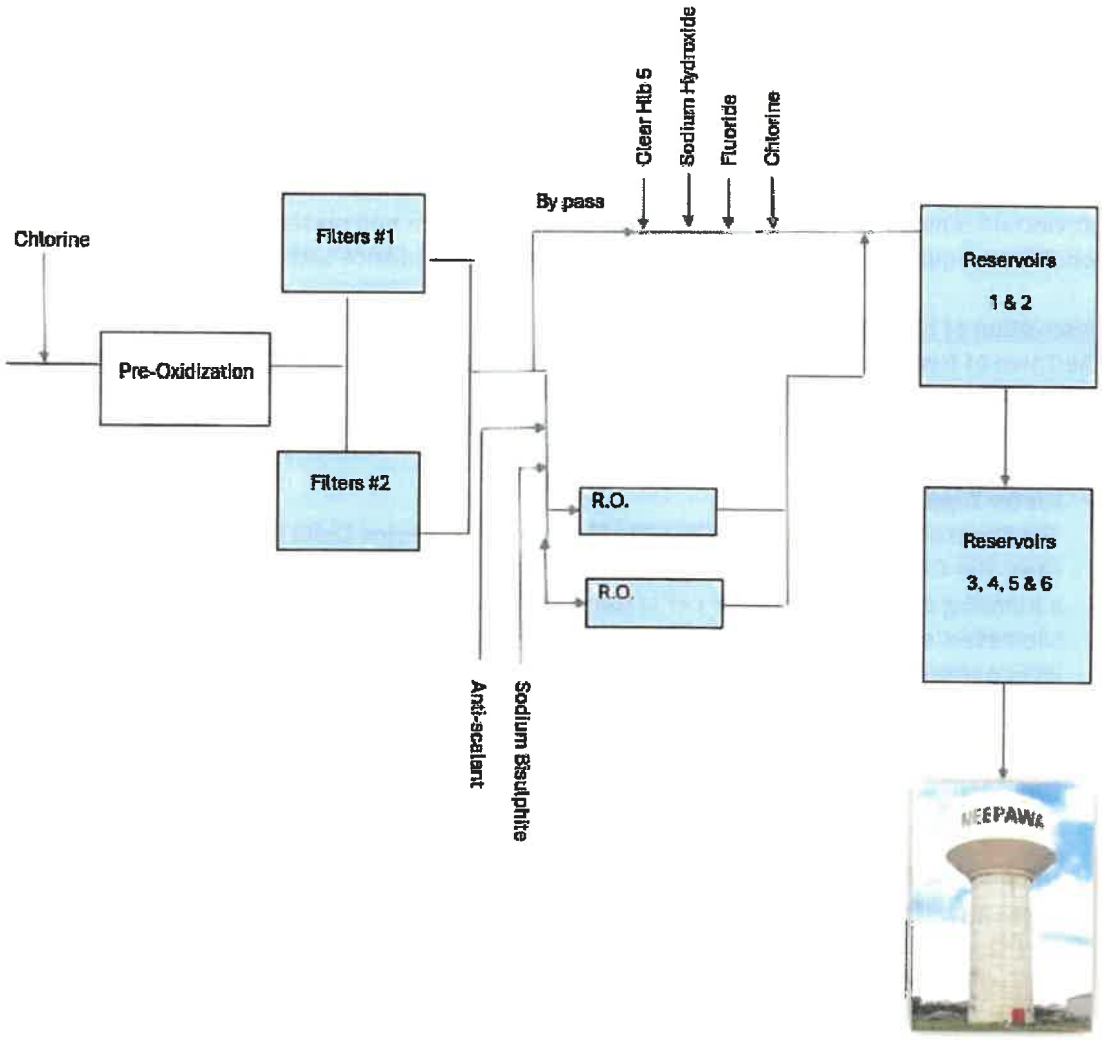
  Treatment consists of two gravity filters with Pyrolusite and anthracite media, followed by two reverse osmosis filtration trains with a bypass for blending.

  The present water treatment system was upgraded in 2013 and provides the ability to treat water up to 75 litres per second. Water treatment consists of the following process:

  - Add chlorine to pre-oxidize the iron/manganese/arsenic, which is then filtered out.
  - Add sodium bisulphite and anti-scalant to remove the oxygenizing rate potential of the water and help keep water minerals from plugging or scaling the reverse osmosis (RO) membrane.
  - Treat the water by using the Reverse Osmosis (RO) membrane unit
  - Blend RO water with filtered water (approx. 60 /40 blend)
  - Add sodium hydroxide, chlorine, clearhib 4 and fluorosilicic acid prior to entering the reservoir. The sodium hydroxide balances the pH level of the water; chlorine disinfects the water to make it safe; clearhib 4 reduces the corrosion of the Towns' infrastructure (water lines) and the fluorosilicic acid (fluoride) provides dental protection.

    Manitoba Health, Seniors, and Active Living is responsible for funding and monitoring the fluoridation program (not the Office of Drinking Water)

- ***Water Process Flow Diagram (PFD)***



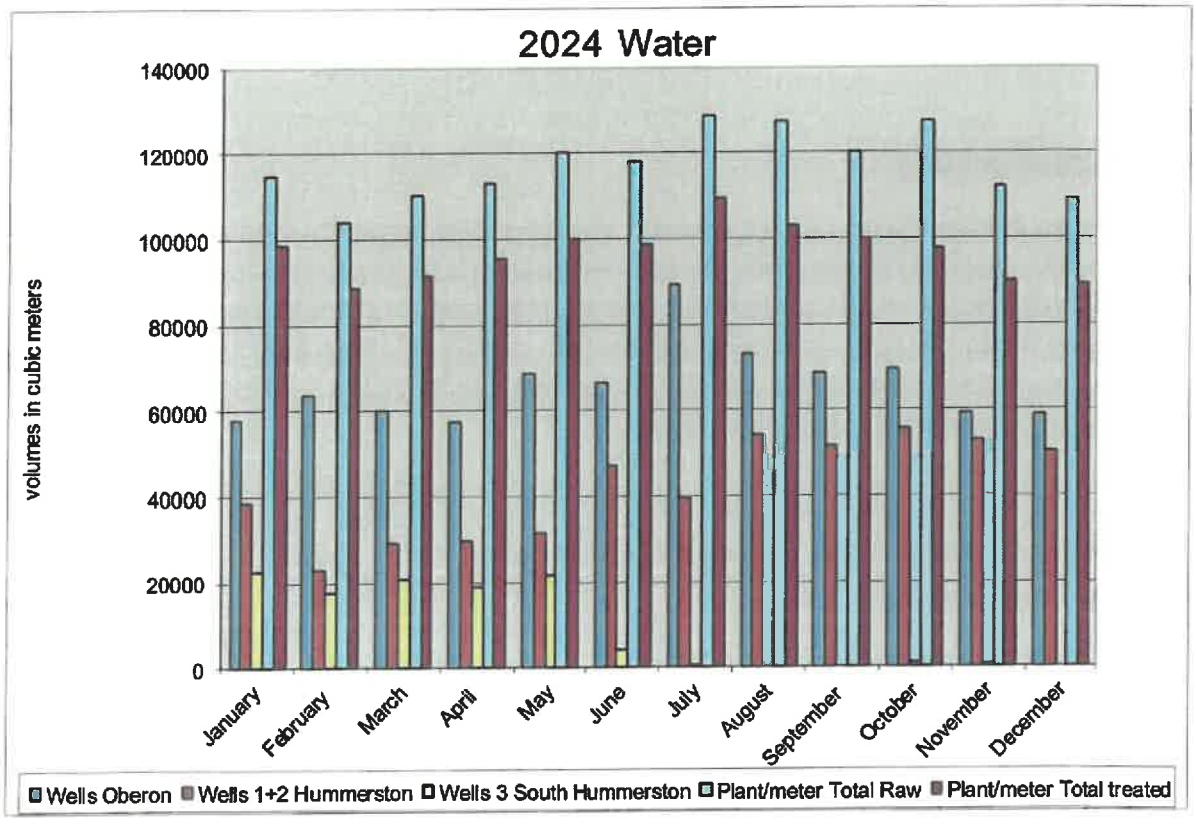
- ***Water Storage***

  Neepawa's water storage infrastructure provides for an overall storage capacity of 6,237 C.M. or 6,237,000 liters of treated water as follows:

  - two in-ground reservoirs at the water plant. One under the original 1962 plant with a storage capacity of 587 C.M., & the second under the 1995 addition with a storage capacity of 670 C.M.;
  - a new water stand-alone water reservoir commissioned in late 2022; built immediately adjacent to the water treatment plant, with a storage capacity of 2,800 C.M.; and
  - a water tower situated along Gill Drive with a storage capacity of 2,180 C.M. Constructed in 1982, the water tower is routinely inspected to identify and address necessary repairs.

- **Raw/Treated Water 2024**

2024	Oberon Wells	Hummerston Wells 1+2	Hummerston Well 3	Plant/Meter Total Raw	Total Treated
January	58,026	38,540	22,502	114,787	98,801
February	63,602	22,942	17,695	104,183	88,779
March	60,024	29,278	20,758	110,107	91,372
April	57,535	29,669	19,066	113,016	95,463
May	68,818	31,347	21,414	119,935	99,805
June	66,307	47,146	4,180	117,995	98,607
July	89,261	39,388	10	128,659	109,325
August	73,072	54,360	0	127,436	103,117
September	68,792	51,413	0	120,191	99,799
October	69,658	55,512	1,049	127,309	97,535
November	59,119	52,776	41	111,945	90,065
December	58,881	50,382	0	109,038	89,179
Total	793,095	502,753	106,715	1,404,601	1,161,847
Average	66,747	41,896	9,701	117,778	97,515
Max	89,261	55,512	22,502	128,659	109,325
Min.	57,535	22,942	0	104,183	88,779



- ***Classification and Certification***
  Pursuant to the Water and Wastewater Facility Operators Regulation under *The Environment Act,* Neepawa's water supply system is classified as a Class 3 Water Treatment Plant and a Class 2 Water Distribution System.

  Operator certification and facility classification falls under *The Environment Act's* Water and Wastewater Facility Operators Regulation, whereby individuals who operate the water treatment plant require certification. Levels range from 1 to 4 dependent on the size of the water system. Conditional certification means that the employee has passed the exam for that level, however has not completed enough CEU's (continuing education units) or work experience for complete certification.

WT – Water Treatment	WD – Water Distribution
WWC – Wastewater Collection	WWT – Waste Water Treatment

  Plant Operator Certifications:

Kevin Levandosky, Supervisor	Level 2 Certification (WD 2, WWC 2, WT 2, WWT 1)
Courtney Gilmore	Level 3 (WT 3, WWT I, WWC 2, WD 2)
Dustin Poncsak	Level 3 (WT 3, WWT I, WWC 2, WD 2)
Tyler Shannon	Level 1 (WT 1, WD OIT, WWT 1, WC 1)

3. Water Quality Standards

The Province of Manitoba has adopted a number of water quality standards from the Health Canada *Guidelines for Canadian Drinking Water Quality*. The health-based parameters express the maximum acceptable concentrations for drinking water. Concentration values in excess of the guidelines constitute a health-related issue and require corrective actions. Public water systems are required to monitor chlorine levels and undertake regular bacterial testing. The 2024 results for the Town of Neepawa water treatment system are as follows:

ALS Certificate of Analysis – Raw & Treated Analytical Report
This report was completed on May 31, 2023.

Required every three years, this report replaces the previous analysis published in 2020.

(2023 Certificate of Analysis Report attached).


Certificate of Analysis

Bacteriological Monitoring & Reporting

The Office of the Drinking Water directive on regulatory information for public water systems requires the Town to conduct mandatory bacterial analysis on our water on a bi-weekly basis to test for Total Coliform (TC) and E. coli (EC). The regulation requires less than one EC per 100-millimeter sample of water, and less than one TC per 100-millimeter sample of water, collected from the distribution system. These tests provide valuable information to ensure that there is no water borne bacteria in the water and that the water is safe to drink. Chlorine (CL) is tested in treated water.

Total coliforms are a group of bacteria commonly found in the environment, for example in soil or vegetation, as well as the intestines of mammals, including humans. Total coliform bacteria are not likely to cause illness, but their presence indicates that your water supply may be vulnerable to contamination by more harmful microorganisms. Escherichia coli (E.coli) is the only member of the total coliform group of bacteria that is found only in the intestines of mammals, including humans. The presence of E.coli in water indicates recent fecal contamination and may indicate the possible presence of disease-causing pathogens, such as bacteria, viruses, and parasites. Although most strains of E.coli bacteria are harmless, certain strains, such as E.coli 0157:H7, may cause illness.

(2024 Bacti Testing Report attached)

4. **Water Analysis and Quality 2024**

To fulfill the general chemistry monitoring requirement of the Operating License, the Town regularly submitted water samples from the **Neepawa PWS** for chemical analysis. Any problems are immediately reported to the Drinking Water Officer and a report is provided each month.

All parameters measured in the treated water met the applicable health-based maximum acceptable concentrations (MAC) and aesthetic objectives set by the *Guidelines for Canadian Drinking Water Quality* (GCDWQ).

- ***Water System Incidents and Corrective Actions***
  No instances of non-compliance were issued in 2024.

- ***Drinking Water Safety Orders, Warnings, and Charges***
  None issued.

- ***Boil Water Advisory's and Actions Taken:***
  The Town issued a Boil Water Advisory on February 17, 2024 following scheduled maintenance to the water system resulting in a loss of pressure in that portion of the Neepawa distribution system at HyLife Pork Processing Plant.

  An additional Boil Water Advisory was issued on April 16, 2024 due to a damaged curb stop resulting in the loss of pressure during construction near 533 Main Street and the Manitoba Hydro building off Hwy 16.

  The required notifications provided by the Drinking Water Officer were posted on each affected property and each property was once again notified when the orders were lifted. In addition, a copy of each notice was posted on the Town's website and updated accordingly. No issues or incidents were noted.

- ***Disinfection System***
  Chlorine monitoring – The system met the required disinfection standards of at least 0.5 mg/L in the treated water and 0.1 mg/L within the distribution system, 100% of the time in 2024.

5. **Water Supply System Maintenance and Upgrades**

   - Work continued on the PTH 16 Watermain Extension project with the installation of 3.2 kms of water pipeline to service current and future development in the SW 34-14-15w and more specifically to provide service to the new regional hospital. This project also included the installation of a redundancy loop, to facilitate an uninterrupted water source to the new hospital and to HyLife Foods, whereby water can be drawn from either the Town's water tower, or the water reservoir located at the water treatment plant.

   - Work was also initiated to install a third well at the Oberon well site, as well as 5.2 kms of new raw water supply pipeline to twin the existing line from the Oberon well site. The entire scope of this project focuses on extending water services to the SW 34-14-15W for the purpose of growth and development and was prompted by the construction of a new regional hospital.

   - Roughly $1.4 million in raw water supply upgrades were completed.

   - A water main extension was completed on Gill Drive (290 metres of 300 mm pipe) in preparation for a new subdivision in 2026.

   - Water services were extended into a new 11 lot subdivision on Isabel Street.

   - Approximately 20 new meters of various sizes were installed by municipal staff.

   - Two private service renewals were completed.

   - Approximately $7,000 was invested in staff education and training.

   - The raw water distribution line from the aquifer lines (approx. 20 km) is swabbed annually to improve raw water quality.

   - The in-town hydrant flushing program and valve exercising program only occurred in the fall. This takes approximately one week to complete.

   - Fall/Winterizing Hydrant Inspection program – staff inspect all hydrants prior to freeze up.

6. **Seasonal Service**

   In accordance with Water Services Guidelines, all of the Town of Neepawa seasonal services (campground, swimming pool, golf course, etc.) were flushed and bacti tested in 2024 prior to consumer connection.

7. Emergency Notifications

The Town of Neepawa has the ability to share information with the public via All-Net Connect, which is an electronic notification program that allows residents to receive important information by phone, email or through text messaging. Information is also posted on the Town's website. In instances whereby a particular notification is very limited in scope, the Town will prepare paper notifications for posting on the door of each affected residence or business.

8. Future Expansion and Upgrading Plans

- **Water Extensions - Project "320"**
  In 2024, Neepawa purchased 320 acres of land to accommodate community growth. Phase 1 of the Town's expansion is currently in the planning stages to create a new 58-acre residential subdivision with 200+ dwelling units. The Town has already engaged engineers and consultants in planning and designing the required water & sewer infrastructure for not only this first phase, but in preparation for subsequent subdivisions that will reflect a combination of residential, commercial, institutional and industrial properties.
  Anticipated Completion Date: 2025/27

- **Water Treatment Plant**
  As Neepawa continues to grow, it is recognized that attention will need to be given to ensure sufficient capacity for the treatment of water at the water treatment plant. The Town intends to initiate a review of the plant's capacity, especially in relation to the existing footprint of the plant and the potential for capital expansion.
  Anticipated Completion Date: 2026/27

- **Water Tower Repair & Maintenance**
  The water tower has a buildup of sediment and numerous rust spots requiring repair. The tower must be drained, which we anticipate will expose other issues requiring repairs. Rust spots will be sanded down and the entire interior of the tower epoxied. The exterior of the tower will be given a new paint job. This project will ensure the health and safety of those on the distribution system and proper maintenance of the facility. While this project remains a priority of the Town, it has been necessary to postpone its focus to allow for projects with greater priority to be actioned.
  Anticipated Start Date: 2027

9. Closing

The Town of Neepawa recognizes the importance of informing all water users of the system's operations. For any questions related to this report or the water utility, please contact the Town at 204-476-7600 or by e-mail at info@neepawa.ca.

Town of Neepawa - Water Plant
ATTN: KEVIN LEVANDOSKY
Neepawa - PWS
Box 339
Neepawa MB R0J 1H0

Date Received: 17- MAY- 23
Report Date: 31- MAY- 23 13:47 (MT)
Version: FINAL

Client Phone: 204- 476- 7626

Certificate of Analysis

Lab Work Order #: L2750699

Project P.O. #:	NOT SUBMITTED
Job Reference:	NEEPAWA - PWS 149.00
C of C Numbers:	
Legal Site Desc:	16802

Sheriza Rajack- Ahamed
Account Manager

PCL XL error
    Error: IllegalOperatorSequence
    Operator: ReadImage
    Position: 989

ANALYTICAL REPORT

Total Metals (WATER)

Analyte	Unit	Guide Limit #1	Guide Limit #2	ALS ID: L2750699-1 Sampled Date: 16-MAY-23 Sampled Time: 16:00 Sample ID: NEEPAWA REGIONAL 1 - RAW	ALS ID: L2750699-2 Sampled Date: 16-MAY-23 Sampled Time: 16:00 Sample ID: NEEPAWA REGIONAL 2 - TREATED	ALS ID: L2750699-3 Sampled Date: 16-MAY-23 Sampled Time: 16:00 Sample ID: NEEPAWA REGIONAL 3 - DISTRIBUTION @ MIDPOINT
Aluminum (Al)-Total	mg/L	0.1	2.9	<0.0030	<0.0030	<0.0030
Antimony (Sb)-Total	mg/L	-	0.006	<0.00010	<0.00010	<0.00010
Arsenic (As)-Total	mg/L	-	0.01	0.00429	0.00138	0.00138
Barium (Ba)-Total	mg/L	-	2	0.346	0.143	0.137
Beryllium (Be)-Total	mg/L	-	-	<0.00010	<0.00010	<0.00010
Bismuth (Bi)-Total	mg/L	-	-	<0.000050	<0.000050	<0.000050
Boron (B)-Total	mg/L	-	5	0.061	0.050	0.050
Cadmium (Cd)-Total	mg/L	-	0.005	<0.0000050	<0.0000050	<0.0000050
Calcium (Ca)-Total	mg/L	-	-	77.8	33.6	34.5
Cesium (Cs)-Total	mg/L	-	-	<0.000010	<0.000010	<0.000010
Chromium (Cr)-Total	mg/L	-	0.05	<0.00010	<0.00010	<0.00010
Cobalt (Co)-Total	mg/L	-	-	<0.00010	<0.00010	<0.00010
Copper (Cu)-Total	mg/L	1	2	<0.00050	0.00465	0.0224
Iron (Fe)-Total	mg/L	0.3	-	0.085	<0.010	<0.010
Lead (Pb)-Total	mg/L	-	0.005	<0.000050	<0.000050	0.000053
Lithium (Li)-Total	mg/L	-	-	0.0207	0.0103	0.0107
Magnesium (Mg)-Total	mg/L	-	-	28.0	11.6	11.1
Manganese (Mn)-Total	mg/L	0.02	0.12	0.245	0.00030	0.00027
Molybdenum (Mo)-Total	mg/L	-	-	0.00253	0.00104	0.00110
Nickel (Ni)-Total	mg/L	-	-	<0.00050	<0.00050	<0.00050
Phosphorus (P)-Total	mg/L	-	-	<0.050	0.543	0.585
Potassium (K)-Total	mg/L	-	-	2.82	1.36	1.32
Rubidium (Rb)-Total	mg/L	-	-	0.00116	0.00050	0.00061
Selenium (Se)-Total	mg/L	-	0.05	0.000264	0.000099	0.000118
Silicon (Si)-Total	mg/L	-	-	12.2	5.23	5.34
Silver (Ag)-Total	mg/L	-	-	<0.000010	<0.000010	<0.000010
Sodium (Na)-Total	mg/L	200	-	8.32	19.7	18.9
Strontium (Sr)-Total	mg/L	-	7	0.272	0.112	0.113
Sulfur (S)-Total	mg/L	-	-			3.23
Tellurium (Te)-Total	mg/L	-	-	<0.00020	<0.00020	<0.00020
Thallium (Tl)-Total	mg/L	-	-	<0.000010	<0.000010	<0.000010
Thorium (Th)-Total	mg/L	-	-	<0.00010	<0.00010	<0.00010
Tin (Sn)-Total	mg/L	-	-	<0.00010	<0.00010	<0.00010

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

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

Total Metals (WATER)

Analyte	Unit	Guide Limit #1	Guide Limit #2	ALS ID: L2750699-1 Sampled Date: 16-MAY-23 Sampled Time: 16:00 Sample ID: NEEPAWA REGIONAL 1 - RAW	ALS ID: L2750699-2 Sampled Date: 16-MAY-23 Sampled Time: 16:00 Sample ID: NEEPAWA REGIONAL 2 - TREATED	ALS ID: L2750699-3 Sampled Date: 16-MAY-23 Sampled Time: 16:00 Sample ID: NEEPAWA REGIONAL 3 - DISTRIBUTION @ MIDPOINT
Titanium (Ti)-Total	mg/L	-	-	<0.00030	<0.00030	<0.00030
Tungsten (W)-Total	mg/L	-	-	<0.00010	<0.00010	<0.00010
Uranium (U)-Total	mg/L	-	0.02	0.00276	0.00125	0.00130
Vanadium (V)-Total	mg/L	-	-	<0.00050	<0.00050	<0.00050
Zinc (Zn)-Total	mg/L	5	-	<0.0030	<0.0030	<0.0030
Zirconium (Zr)-Total	mg/L	-	-	<0.00020	<0.00020	<0.00020

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

Volatile Organic Compounds (WATER)

Analyte	Unit	Guide Limit #1	Guide Limit #2	ALS ID: L2750699-1 Sampled Date: 16-MAY-23 Sampled Time: 16:00 Sample ID: NEEPAWA REGIONAL 1 - RAW
Benzene	mg/L	-	0.005	<0.00050
1,1-dichloroethene	mg/L	-	0.014	<0.00050
Dichloromethane	mg/L	-	0.05	<0.0050
Ethylbenzene	mg/L	0.0016	0.14	<0.00050
MTBE	mg/L	0.015	-	<0.00050
Tetrachloroethene	mg/L	-	0.01	<0.00050
Toluene	mg/L	0.024	0.06	<0.00050
Trichloroethene	mg/L	-	0.005	<0.00050
o-Xylene	mg/L	-	-	<0.00050
M+P-Xylenes	mg/L	-	-	<0.00040
Xylenes (Total)	mg/L	0.02	0.09	<0.00064
Surrogate: 4-Bromofluorobenzene (SS)	%	-	-	83.9
Surrogate: 1,4-Difluorobenzene (SS)	%	-	-	93.4

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

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

Lab. Bac.T. Lab149

Date/2024	Free CL	Total CL	TC	EC	# of Tests
2024-01-09	0	0	0	0	
	0.84	0.94	0	0	
	0.75	0.85	0	0	1
2024-01-23	0	0	0	0	
	0.75	0.88	0	0	
	0.73	0.81	0	0	2
2024-02-06	0	0	0	0	
	0.71	0.81	0	0	
	0.71	0.81	0	0	3
2024-02-20	0	0	0	0	
	0.87	0.99	0	0	
	0.74	0.86	0	0	4
2024-03-05	0	0	0	0	
	0.79	0.92	0	0	
	0.69	0.74	0	0	5
2024-03-19	0	0	0	0	
	0.71	0.85	0	0	
	0.65	0.72	0	0	6
2024-04-02	0	0	0	0	
	0.81	0.95	0	0	
	0.85	0.88	0	0	7
2024-04-16	0	0	0	0	
	0.74	0.84	0	0	
	0.54	0.64	0	0	8
2024-04-30	0	0	0	0	
	0.71	0.81	0	0	
	0.42	0.54	0	0	9
2024-05-14	0	0	0	0	
2024-05-15	0.72	0.87	0	0	
	0.65	0.72	0	0	10
2024-05-28	0	0	0	0	
	0.71	0.88	0	0	
	0.64	0.67	0	0	11
2024-06-11	0	0	0	0	
	0.62	0.71	0	0	
	0.45	0.52	0	0	12
2024-06-25	0	0	0	0	
	0.68	0.77	0	0	
	0.51	0.62	0	0	13
2024-07-09	0	0	0	0	
	0.66	0.79	0	0	
	0.63	0.73	0	0	14
2024-07-23	0	0	0	0	
	0.74	0.85	0	0	
	0.51	0.61	0	0	15
2024-08-06	0	0	0	0	
	0.82	0.92	0	0	
	0.85	0.91	0	0	16
2024-08-20	0	0	0	0	
	0.82	0.92	0	0	
	0.53	0.61	0	0	17
2024-09-03	0	0	0	0	
	0.82	0.96	0	0	
	0.82	0.87	0	0	18
2024-09-17	0	0	0	0	
	0.64	0.75	0	0	
	0.57	0.69	0	0	19
2024-10-01	0	0	0	0	
	0.78	0.89	0	0	
	0.77	0.85	0	0	20
2024-10-15	0	0	0	0	
	0.82	0.96	0	0	
	0.79	0.89	0	0	21
2024-10-29	0	0	0	0	
2024-10-30	0.69	0.77	0	0	
	0.58	0.63	0	0	22
2024-11-12	0	0	0	0	
	0.75	0.85	0	0	
	0.75	0.84	0	0	23
2024-11-19	0	0	0	0	
	0.64	0.78	0	0	
	0.60	0.66	0	0	24

2024-12-03	0	0	0	0	
	0.77	0.88	0	0	
	0.68	0.77	0	0	25
2024-12-17	0	0	0	0	
	0.77	0.88	0	0	
	0.69	0.79	0	0	26

Seasonal Bact and line Flushing						
Date	Free CL	Total CL	Results	Results		Seasonal
Jan/09/2024				0.001380	Pass	Lead
Jan/23/2024				0.000751	Pass	Lead
Feb/05/2024				0.036600	Over	Lead
Feb/17/2024	0.89	0.99	0	0		tie in
Feb/18/2024	0.68	0.78	0	0		tie in
Feb/20/2024				0.00146	Pass	Lead
March/05/2024				0.00701	Over	Lead
March/19/2024				0.00182	Pass	Lead
April/2/2024						Lead
April/17/2024	0.71	0.77	0	0		Swift Boil A
April/17/2024	0.61	0.73	0	0		Swift Boil A
April/22/2024	0.64	0.81	0	0		Swift Boil A
April/22/2024	0.72	0.81	0	0		Swift Boil A
April/23/2024	0.63	0.75	0	0		Swift Boil A
April/23/2024	0.59	0.65	0	0		Swift Boil A
April/30/2024	0.42	0.54	0	0		Seasonal
April/30/2024	0.66	0.75	0	0		Seasonal
April/30/2024	0.69	0.75	0	0		Seasonal
April/30/2024	0.63	0.71	0	0		Seasonal
May/03/2024	0.63	0.67	0	0		Swift Boil A
May/06/2024	0.54	0.64	0	0		Swift Boil A
May/06/2024	0.56	0.63	0	0		Swift Boil A
May/06/2024	0.41	0.46	0	0		Swift Boil A
May/07/2024	0.63	0.69	0	0		Hose Servi
May/07/2024	0.59	0.67	0	0		Hose Servi
May/07/2024	0.41	0.45	0	0		Swift Boil A
May/07/2024	0.48	0.53	0	0		Swift Boil A
May/13/2024	0.66	0.74	0	0		New Servic
May/15/2024	0.66	0.75	0	0		Seasonal
May/15/2024	1.22	1.37	0	0		New Servic
May/28/2024	0.71	0.81	0	0		Seasonal
May/28/2024	0.64	0.67				Arsenic
June/11/2024	0.66	0.75	-	-		Seasonal
June/12/2024	0.63	0.69	0	0		Seasonal
June/11/2024				0.00879	Over	Lead
June/11/2024				0.01090	Over	Lead
June/25/2024	0.57	0.62				Seasonal
June/25/2024				0.02170	Over	Lead
June/25/2024				0.00120	Pass	Lead
July/9/2024	0.70	0.75	0	0		Seasonal
July/9/2024				0.00133	Pass	Lead
July/9/2024				0.00357	Pass	Lead
July/23/2024	0.76	0.93	0	0		Seasonal
July/23/2024				0.0364	Over	Lead
July/23/2024				0.00457	Pass	Lead
Aug/06/2024	0.67	0.74	0	0		Seasonal
Aug/06/2024						Lead
Aug/06/2024						Lead
Aug/14/2024	0.83	0.98	0	0		New Servic
Aug/14/2024	1.01	1.11	0	0		Hosp Temp
Aug/15/2024	0.43	0.49	0	0		Hosp Temp
Aug/15/2024	1.01	1.12	0	0		Hosp Temp
Aug/20/2024	0.51	0.59	0	0		Seasonal
Aug/20/2024						Lead
Aug/20/2024						Lead
Sept/03/2024				0.00096	Pass	Lead
Sept/03/2024	0.56	0.64	0	0		Seasonal
Sept/16/2024	0.58	0.67	0	0		Fixed Servi
Sept/17/2024	0.52	0.57	0	0		Fixed Servi
Sept/17/2024	0.57	0.65	0	0		Seasonal
Oct/15/2024				0.00139	Pass	Lead
Oct/15/2024				0.00687	Over	Lead
Nov/12/2024	0.64	0.72	0	0		Tie-in
Nov/13/2024	0.79	0.99	0	0		Tie in

275 Hamilton Street, P.O. Box 339
Neepawa, MB, R0J 1H0
Telephone (204) 476-7600 Fax (204) 476-7624
info@neepawa.ca

On <<date>>, Town of Neepawa Water Treatment Plant Staff sampled the tap water from your property, located at <<>>. Results were returned and determined that your lead sampling levels were elevated.

What is Lead? Lead is a bluish grey metal found naturally in the environment. Lead can be found in the air, soil, food, water and in certain consumer products. Lead is not found in Manitoba's natural water sources, such as groundwater or surface water utilized for drinking. Lead was used as an acceptable material for water service lines up until 1975. Plumbing materials and fittings such as solder, faucets or valves in older homes built prior to 1990 may also contain lead. You can confirm it's a lead pipe by gently scratching the surface with a coin. If it's lead, scratching the pipe will leave a shiny silver metal mark. Lead is released into drinking water from lead containing parts in the distribution system or building plumbing systems. Lead service lines are the most significant sources of lead in drinking water.
In 2019, Health Canada lowered the lead health-based guideline from 0.010 to 0.005 mg/l. In 2020, Manitoba adopted Health Canada's guideline as a standard in the Drinking Water Quality Standards Regulation.

Lead can be released into the drinking water by the materials used in the distribution system when the chemistry of the treated water causes a reaction, changes in water source or treated water quality or the length of time water sits in the pipes. Fetuses and young children are the most sensitive to the effects of lead exposure, which can have neurological development and behavioral effects. At slightly higher levels of lead exposure, effects on the kidney and increased blood pressure have been reported in adults.

Manitoba has begun a residential lead testing program. Priority is being given to older, larger communities with known lead systems, according to the lead monitoring requirements set out by the Drinking Water Officer. In 2018, Town staff went door to door to every property with water service, and identified the service line material. Staff will now be taking water samples from every property that had a lead service identified.

The Office of Drinking Water and Province of Manitoba recommend that you immediately begin using an NSF-certified point-of-use treatment device, which is a reverse osmosis system, that will remove the lead from the water. You must also make arrangements to have your water service line (the line that distributes water from the water main in the street, to your home) replaced.

As per By-Law 3204-2, Management & Regulation of Waterworks & Wastewater System:

Water &/or Wastewater Connection (Mains to Property Line)

48. *The construction and connection from the water and wastewater mains to the property line, shall be undertaken by the Town, with the property owner responsible for the respective surcharge per Section 80, or in accordance with costs and charges as may be adopted and approved by Council from time to time.*

Water &/or Wastewater Service (Property Line to Building)

49. *All costs of construction and connection from the property line to the building shall be the total responsibility of the property owner. The name of a qualified tradesperson or contractor and material list must be approved in writing by the Town, prior to the start of work. Work must be in accordance with provincial standards.*
A qualified tradesperson or contractor employed by the owner or occupier of premises, connecting to the Water and/or Wastewater Systems shall be deemed to be the agent of such owner or occupier and the Town will not be responsible for the acts of the tradesperson.

The Town reserves the right to request that any connection to the Town's water and/or wastewater mains be designed by a Professional Engineer.

80. Where a lot or property is within a developed residential area and the associated infrastructure debt for the construction and installation of the water and/or wastewater mains within the street has been retired, either by local improvement plan or paid by the municipality; and where a property is not, or has not been, serviced with a water and/or wastewater connection (i.e., main to property line);

(a) the Town shall install the Service Connection(s) to the front property boundary and shall charge the owner of the property a residential installation and surface restoration surcharge in amount of five thousand ($5,000.00) dollars for each service required (i.e., water &/or wastewater); or

(b) in the event that the Water and Wastewater Connections are installed in a common trench not exceeding 3 m (10 ft.) in width, and 7.5 m (25 ft.) in length, and at the discretion of the Manager, only one installation and surface restoration surcharge of five thousand ($5,000.00) dollars will be charged to the property owner.

81. Where a lot is within a developed residential area where the infrastructure debt has been retired and an entire water or wastewater Service Line needs to be replaced due to age or condition, the Town shall perform that portion of the Service Line replacement for the affected property from the main to the property line for the charge established in Section 80(b). Property owners shall also be responsible for the cost of that portion of the Service Line from the property line to the structure, the cost of restoring connection of the service at the structure and the interior plumbing system and private property restoration.

83. Property owners refusing to participate in a renewal program and having a water service connection or line that is of a condition or material unacceptable to the Manager as per Section 82(a):
shall still be subject to having the Water Connection renewed at the same cost as if the entire water service line was being replaced from the main to the building. Costs associated with renewing the water connection shall be collected under the authority of Subsection 252(2) of The Municipal Act in the like manner as a property tax; and shall still be subject to having the Water Connection renewed at the same cost as if the entire water service line was being replaced from the main to the building. Costs associated with renewing the water connection shall be collected under the authority of Subsection 252(2) of The Municipal Act in the like manner as a property tax

The Town of Neepawa offers a subsidization of the service line replacement program, at a cost of $5000, and recommends that your sewer service be renewed at the same time. Please contact Denis Saquet, Manager of Operations at 204-476-7655 or operations@neepawa.ca as soon as possible to make arrangements for this service renewal. It is important to note that this is not an optional renewal, but is mandatory. Should we not hear from you within sixty (60) days, the renewal will be scheduled and all associated costs added to property taxes.

Once again, your water was sampled on <<date>>. Town of Neepawa Water Treatment Staff will continue to test all known lead locations within Neepawa.

Regards,

Denis Saquet, C.E.T.
Manager of Operations

2024 Lead Sampling Results Report

Type of Service	Tap placement or Post	Date Tested	Results	Pass/Over
3/4" LEAD	Done 2023	July/25/2023	0.00164	Pass
1/2" LEAD	Done 2024	June/25/2024	0.0217	Over
3/4" LEAD	Done 2023	Oct/3/2023	0.01370	Over
3/4" LEAD	Done 2023	Oct/3/2023	0.00651	Over
3/4" LEAD	Done 2024	July/09/2024	0.00357	Pass
3/4" LEAD	Done 2024	July/09/2024	0.00357	Pass
3/4" LEAD	Done 2023	Sept/05/2023	0.00140	Pass
3/4" LEAD	Done 2023	Oct/31/2023	0.03950	Over
3/4" LEAD	Done 2024	Jan/23/2024	0.00075	Pass
3/4" LEAD	Done 2024	July/09/2024	0.00133	Pass
3/4" LEAD	Post			
3/4" LEAD	Post			
3/4" LEAD	Done 2024	Aug/06/2024	0.00669	Over
3/4" LEAD	Done 2024	Aug/06/2024	0.00738	Over
1/2" LEAD	Post House			
3/4" LEAD	South Tap			
3/4" LEAD	Post House			
3/4" LEAD	Done 2024	Feb/06/2024	0.0366	Over
3/4" LEAD	Done 2024	Mar/19/2024	0.00182	Pass
3/4" LEAD	Done 2024	July/23/2024	0.0364	Over
3/4" LEAD	Done 2024	June/11/2024	0.0109	Over
1/2" LEAD	Done 2023	Nov/14/2023	0.00199	Pass
3/4" LEAD	Done 2024	Sept/03/2024	0.00096	Pass
3/4" LEAD	Done 2024	June/11/2024	0.00879	Over
3/4" LEAD	Done 2023	Nov/28/2023	0.02350	Over
3/4" LEAD				
3/4" LEAD	Done 2023	June/13/2023	0.00178	Pass
3/4" LEAD	Done 2024	April/2/2024	0.26200	Over
1/2" LEAD	Post			
3/4" LEAD	Done 2024	July/23/2024	0.00457	Pass
3/4" LEAD	Post			
3/4" LEAD	Done 2023	May/30/2023	0.00378	Pass
1 1/2" LEAD	Done 2023	July/11/2023	0.16100	Over
1/2" LEAD	Done 2024	Feb/20/2024	0.00146	Pass
3/4" LEAD	Done 2024	Jan/09/2024	0.00138	Pass
5/8" LEAD	Done 2023	May/04/2023	0.00405	Pass
3/4" LEAD	Post			
1/2" LEAD				
3/4" LEAD	East Outside Tap			
3/4" LEAD	Done 2023	Aug/22/2023	0.01600	Over
3/4" LEAD	Done 2024	Mar/05/2024	0.00701	Over
3/4" LEAD	North Tap			
1" LEAD	Done 2023	Aug/08/2023	0.00191	Pass
3/4" LEAD	Post			
3/4" LEAD	South Outside Tap			
3/4" LEAD	South Outside Tap			
3/4" LEAD	North Tap Oustide			
3/4" LEAD	Done 2023	Oct/17/2023	0.08090	Over
3/4" LEAD	Post			
3/4" LEAD	Done 2023	Dec/27/2023	0.043600	Over
3/4" LEAD	Done 2023	Dec/27/2023	0.000197	Pass
3/4" LEAD	Post			
3/4" LEAD	South Tap			
3/4" LEAD	Post			
3/4" LEAD	Done 2024	Aug/20/2024	0.00139	Pass
3/4" LEAD	Done 2024	Aug/20/2024	ALS Lost	Samples
3/4" LEAD	South Tap	Oct/15/2024	0.00687	Over
3/4" LEAD	Post			
3/4" LEAD	Post			
3/4" LEAD	Post House			
3/4" LEAD	Post House			
3/4" LEAD	Done 2023	May/30/2023	0.00512	Over
3/4" LEAD	Done 2023	June/27/2023	0.00154	Pass
3/4" LEAD	Back Alley Outside Tap			
3/4" LEAD				
3/4" LEAD	Done 2023	Dec/12/2023	0.05410	Over
3/4" LEAD	Done 2023	Dec/12/2023	0.00606	Over
3/4" LEAD	Back Outside Tap	June/25/2024	0.0012	Pass