Town of Altona

Public Water System

Annual Report 2025

The Town of Altona 2025 Annual Public Water System Annual Report will be posted on the Town website (www.altona.ca) on or before March 6, 2025.

Free paper copies of the report are available at the Town of Altona administration building located on 111 Centre Avenue East.

The public will be notified via the Town's website as well as a poster on the Town's bulletin board in the Town office.

Town of Altona Public Water System

Annual Report 2025

Name of the Public Water system: **Altona Public Water System**

Name of the Legal Owner: **The Town of Altona**

Phone: **204.324.6468**

Contact person: **Dan Gagné (CAO)**

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Supervisor: **Clint Derksen**

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Senior Operator: Jackson Enns

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Report Prepared: February 26, 2026

The 2025 Annual Report for the Town of Altona summarizes the Water Utility's ability to distribute safe potable water and meet provincial regulations.

1. Description of the Water System:

The Altona Public Water System (Altona PWS) provides potable water to a population of approximately 4,450 residents. Treated water purchased from the Pembina Valley Water Cooperative Inc. (PVWC) meets all objectives as stated in the Guidelines for Canadian Drinking Water Quality.

1.1 Water Supply Source

The Altona PWS receives treated water from the Red River Regional Water Treatment Plant in Letellier, Mb. which is approximately 20 kilometers east of Altona. The Letellier plant draws raw water from the Red River and treats the water before distribution.

1.2 Distribution System

Treated water from the two reservoirs is pumped throughout the Altona distribution system via four variable frequency driven 15 horsepower duty pumps in two pumphouses, plus two 75 horsepower emergency pumps. The approximate 34 kilometers of piping is 99% looped and is comprised of 58% AC, 41% PVC, and 1% HDPE.

1.3 Storage Reservoirs

Name: North End Reservoir Capacity: 3 222 000 L

Name: South End Reservoir Capacity: 1 453 000 L

1.4 Number of Connections, population served and types of users

The Altona distribution system is comprised of 1,750 (corrected after meter replacement project) service connections. 2021 census indicates a population of 4390. All connections are metered. Domestic use is the largest consumer with approximately 65% while commercial use is approximately 35%.

1.5 Classification and Certification

Operators are certified under Manitoba Conservation's *Water and Wastewater Facility Operators Regulation* under the *Environment Act*

Clint Derksen- Supervisor ID # 2014-081 - WD2, WWC2, WWT1
Jackson Enns-Foreman ID # 03223 – WD2, WWC2, WWT2
Scott Klassen-Assistant ID # 03849 – WD2, WWC2, WWT2
Kirby Sawatzky-Assistant ID # 04305 – WD2, WWC2, WWT1

2. Disinfection system in use

The final step before distribution is the addition of 12% liquid sodium hypochlorite to the water while entering the reservoirs. The treated water leaving the pumphouses is continuously tested for a level of chlorine that is high enough for proper disinfection in the distribution system.

2.1 Equipment and monitoring requirements

As required, the Altona PWS ensures continuous disinfection is maintained by stocking all spare parts for all chlorinators.

Free Available and Total Chlorine residuals are analysed daily by staff, continuously with chlorine analyzers at each reservoir, and bi-weekly throughout the distribution system. A Hach brand portable colorimeter test kit, which is calibrated annually, is used for the testing at the South reservoir, and an Orbeca brand portable colorimeter test kit, which is also calibrated annually, is used for the testing at the North reservoir. All results are recorded on the appropriate monitoring forms and submitted to the Office of Drinking Water monthly. Bi-weekly samples are sent to an independent lab for testing. THM/HAA analysis are required every other year. In 2025 we also tested for lead content.

Tests performed bi-weekly:

- **Total Coliform:** a measurement of the total coli form present in bi-weekly samples submitted to an independent lab.
- **Escherichia coli**: a measurement of the Escheria coli present in bi-weekly samples submitted to an independent lab.

Quarterly samples, every other year, are also collected in the distribution system and sent to the lab for **THM** testing and **HAA** testing.

- **THM** is the abbreviation for Trihalomethane, which is a chlorination/disinfection byproduct.
- **HAA** is the abbreviation for Haleo Acetic Acid, which is a chlorination/disinfection byproduct.

2.2 Overall performance

In 2025, the Altona PWS had no positive result for Coli form. The following tables outline the requirements and performance of the PWS in the Town of Altona for 2025 as outlined in the Operating License.

Disinfection Monitoring and Reporting

	Standard	*%*

		Compliance
A) Free Chlorine residual entering the distribution system *Section 21(1)a – MR 40/2007*	*≥ 0.5mg/L*	*100%*
B) Frequency of testing entering the distribution system *Section A – MR 40/2007*	*Daily*	*100%*
C) Free Chlorine residual in the distribution system *Section 22a – MR 40/2007*	*≥ 0.1mg/L*	*100%*
D) Frequency of testing in the distribution system *Section A – MR 40/2007*	*Bi-Weekly*	*100%*
E) Report Submissions *Section 25(2) – MR 40/2007*	*Monthly*	*100%*
The PWS has met all regulatory requirements for 2025 in this area.		

Bacteriological Monitoring and Reporting

	Standard	% Compliance
A) Number of samples of watering leaving the North End Reservoir *Schedule A – MR 40/2007*	*26*	*100%*
B) Number of samples of watering leaving the South End Reservoir *Schedule A – MR 40/2007*	*26*	*100%*
C) Number of distribution water samples *Schedule A – MR 40/2007*	*26*	*100%*
D) Frequency of Testing *Schedule A – MR 40/2007*	*Bi-weekly*	*100%*
E) Total Coli form present in samples *Section 3(1)b – MR 40/2007*	*0 TC per 100ml**	*100%*
F) E. Coli present in Samples *Section3(1)a – MR 41/2007*	*0 EC per 100ml*	*100%*

The Public Water System has met all regulatory monitoring requirements for 2025. The water system was deemed to be in compliance with all terms and conditions in the Operating License.

Lead Monitoring and Reporting

In 2025 the Altona PWS was required to provide independent lab analysis on 20 addresses throughout the distribution system.

Address	Result (RDT)
Location 1	*0.000683*
Location 2	*0.000755*
Location 3	*0.000640*
Location 4	*0.000223*
Location 5	*0.000314*
Location 6	*0.000379*
Location 7	*0.000474*
Location 8	*0.00144*

Location 9	*0.00203*
Location 10	*0.000903*
Location 11	*0.000467*
Location 12	*0.00201*
Location 13	*0.000881*
Location 14	*0.00128*
Location 15	*0.000313*
Location 16	*0.000424*
Location 17	*0.00122*
Location 18	*0.000083*
Location 19	*0.000698*
Location 20	*0.000750*

Engineering Assessment of Water System Infrastructure and Water Supply Source

As specified by the operating license, the Altona PWS was required to initiate an Engineering Assessment of the Water System Infrastructure and Water Supply Source. J.R. Cousin Consultants completed the Town of Altona Public Water System Assessment 2016 PWS 4.00. Two copies of the report were mailed to The Office of Drinking Water. The 2026 re-assessment is underway now and will be available by March 31, 2026.

3. Water Rates

In 2025 our water rate was $15.21 per 1000 Imperial gallons.

4. Water System Incidents

In 2025 there were no major incidents.

4.1 Major Expenses

In 2025 there were no major expenses.

5. Drinking Water Orders

In 2025 there were no Safety Orders issued for Altona Public Water System.

6. Boil Water Advisories (BWA's) issued and actions taken

In 2025 there were four BWA's issued due to water main breaks and repairs.

1. January 29 @ Spruce Crescent & Ash St.
2. March 26 @ 56 2nd Ave NE
3. May 30 @ 515 2nd St NE
4. August 7 @ Arrowhead Lane

The Office of Drinking Water was notified of BWA's and cc'd on all lab analysis reports.

7. Operational Requirements

The Town of Altona is continually in non-compliance with both THM and HAA requirements issued for the Altona Public Water System. We are working with Pembina Valley Water Corporation to remedy this in the future.
2025 was our second year for testing for total lead.

8. Major Waterline Extensions 2025

In 2025 there was a short watermain extension in the NW quadrant of

Town done by a developer and overseen by Steckley Consulting and Town staff. The installation was performed by a local water & sewer contractor.

9. Future System Expansion

There are no plans in place for any extensions to take place in 2026.

Report Prepared by:

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Public Works Manager
Town of Altona
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Analytical Results Evaluation

Matrix: Water

Analyte	CAS Number	Method/Lab	Unit	Client sample ID	Altona 3 - Distribution @ (add from coc) Distribution	----	----	----	----	----	----
				Client sampling date / time	20-May-2025 10:00	----	----	----	----	----	----
				Sub-Matrix	Water	----	----	----	----	----	----
					WP2507163-001	----	----	----	----	----	----
					Result	----	----	----	----	----	----
Field Tests											
Chlorine, free, field	7782-50-5	EF001/WP	mg/L		1.25	----	----	----	----	----	----
Chlorine, total, field	7782-50-5	EF001/WP	mg/L		1.67	----	----	----	----	----	----
Total Metals											
Aluminum, total	7429-90-5	E420/WP	µg/L		4.8	----	----	----	----	----	----
Antimony, total	7440-36-0	E420/WP	µg/L		0.43	----	----	----	----	----	----
Arsenic, total	7440-38-2	E420/WP	µg/L		1.05	----	----	----	----	----	----
Barium, total	7440-39-3	E420/WP	µg/L		21.3	----	----	----	----	----	----
Beryllium, total	7440-41-7	E420/WP	µg/L		<0.020	----	----	----	----	----	----
Bismuth, total	7440-69-9	E420/WP	µg/L		<0.050	----	----	----	----	----	----
Boron, total	7440-42-8	E420/WP	µg/L		72	----	----	----	----	----	----
Cadmium, total	7440-43-9	E420/WP	µg/L		0.0022	----	----	----	----	----	----
Calcium, total	7440-70-2	E420.Ca-L/WP	µg/L		38000	----	----	----	----	----	----
Cesium, total	7440-46-2	E420/WP	µg/L		0.0083	----	----	----	----	----	----
Chromium, total	7440-47-3	E420/WP	µg/L		0.32	----	----	----	----	----	----
Cobalt, total	7440-48-4	E420/WP	µg/L		0.23	----	----	----	----	----	----
Copper, total	7440-50-8	E420/WP	µg/L		2.68	----	----	----	----	----	----
Iron, total	7439-89-6	E420/WP	µg/L		18	----	----	----	----	----	----
Lead, total	7439-92-1	E420/WP	µg/L		0.021	----	----	----	----	----	----

Matrix: Water

Analyte	CAS Number	Method/Lab	Unit	Client sample ID: Altona 3 - Distribution @ (add from coc) Distribution	----	----	----	----	----	----
				Client sampling date / time: 20-May-2025 10:00	----	----	----	----	----	----
				Sub-Matrix: Water	----	----	----	----	----	----
				WP2507163-001	----	----	----	----	----	----
				Result	----	----	----	----	----	----
Total Metals										
Lithium, total	7439-93-2	E420.Li-L/WP	µg/L	31.2	----	----	----	----	----	----
Magnesium, total	7439-95-4	E420/WP	µg/L	11700	----	----	----	----	----	----
Manganese, total	7439-96-5	E420/WP	µg/L	1.23	----	----	----	----	----	----
Molybdenum, total	7439-98-7	E420/WP	µg/L	2.87	----	----	----	----	----	----
Nickel, total	7440-02-0	E420/WP	µg/L	0.82	----	----	----	----	----	----
Phosphorus, total	7723-14-0	E420.P-L/WP	µg/L	<30	----	----	----	----	----	----
Potassium, total	7440-09-7	E420/WP	µg/L	7980	----	----	----	----	----	----
Rubidium, total	7440-17-7	E420/WP	µg/L	2.54	----	----	----	----	----	----
Selenium, total	7782-49-2	E420/WP	µg/L	0.318	----	----	----	----	----	----
Silicon, total	7440-21-3	E420/WP	µg/L	1020	----	----	----	----	----	----
Silver, total	7440-22-4	E420/WP	µg/L	0.0011	----	----	----	----	----	----
Sodium, total	7440-23-5	E420/WP	µg/L	43300	----	----	----	----	----	----
Strontium, total	7440-24-6	E420/WP	µg/L	147	----	----	----	----	----	----
Sulfur, total	7704-34-9	E420/WP	µg/L	45200	----	----	----	----	----	----
Tellurium, total	13494-80-9	E420/WP	µg/L	<0.20	----	----	----	----	----	----
Thallium, total	7440-28-0	E420/WP	µg/L	<0.010	----	----	----	----	----	----
Thorium, total	7440-29-1	E420/WP	µg/L	<0.10	----	----	----	----	----	----
Tin, total	7440-31-5	E420/WP	µg/L	<0.10	----	----	----	----	----	----
Titanium, total	7440-32-6	E420/WP	µg/L	0.056	----	----	----	----	----	----

Matrix: Water

Analyte	CAS Number	Method/Lab	Unit	Client sample ID: Altona 3 - Distribution @ (add from coc) Distribution	----	----	----	----	----	----
				Client sampling date / time: 20-May-2025 10:00	----	----	----	----	----	----
				Sub-Matrix: Water	----	----	----	----	----	----
				WP2507163-001	**----**	**----**	**----**	**----**	**----**	**----**
				Result	----	----	----	----	----	----
Total Metals										
Tungsten, total	7440-33-7	E420/WP	µg/L	0.013	----	----	----	----	----	----
Uranium, total	7440-61-1	E420/WP	µg/L	0.133	----	----	----	----	----	----
Vanadium, total	7440-62-2	E420/WP	µg/L	3.27	----	----	----	----	----	----
Zinc, total	7440-66-6	E420/WP	µg/L	2.8	----	----	----	----	----	----
Zirconium, total	7440-67-7	E420/WP	µg/L	<0.20	----	----	----	----	----	----

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