

ALTONA RURAL WATER SERVICES COOP LTD.

PUBLIC WATER SYSTEM ANNUAL REPORT

-2025-

Name of the Public Water System: Altona Rural Water Services Coop Ltd.

Name of the Legal Owner: Altona Rural Water Services Coop Ltd.

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Name of Operator: Howard Wiebe

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Introduction:

The 2025 Annual Report for the Altona Rural Water Services Coop Ltd. summarizes the Water Utility’s ability to provide Safe Potable Drinking Water and meet Provincial Regulations. A free paper copy of the report is available at <https://altonaruralwatercoop.com/> or by calling 204-304-1544.

1. Description of the Water System:

The Altona Rural Water Services Coop Ltd. Water System provides safe potable drinking water to a population of approximately 1200 residents.

1.1 Water Supply Source:

The Altona Rural Water Services Coop Ltd. purchases and receives all of its water from the Pembina Valley Water Cooperative. The source of the water for the Altona Rural Water Cooperative is the Red River.

1.2 Water Treatment Process:

The water is treated by the Pembina Valley Water Cooperative and re-chlorinated with sodium hypochlorite upon entering the water storage reservoirs in Altona and Horndean.

1.3 Distribution System:

Treated water from the reservoirs is pumped throughout the Altona Rural Water Service’s distribution system via 2 - 7.5 submersible pumps located in the Altona reservoir and 1 pump in the Horndean reservoir. The distribution system is approximately 112 miles in length and is comprised 100% PVC piping.

1.4 Storage Reservoirs:

Name: Treated Water Reservoir (Altona)	Capacity: 583,000 liters
Treated Water Reservoir (Horndean)	Capacity: 225,000 liters

1.5 Number of Connections, Population served and types of Water Users:

The Altona Rural Water Services Coop Ltd. is comprised of 443 service connections. All service connections are metered; and serve residential households for approximately 1200 people.

1.6 Classification and Certification:

Operating License for a Public Water System. License # PWS-08-188-03.
Effective November 1, 2022 Expiry Date of February 28, 2027.
Operators are certified under the Environment Act’s Water and Waste-water Facility Operators Regulation.

Certification Level of Operators:

Howard Wiebe:	Water Distribution Class 1
	Water Treatment Class 1
Frank Braun:	Water Distribution Class 1

2. Disinfection System in Use:

2.1 Treated water is re-chlorinated as it enters the water storage reservoirs at Altona and Horndean with the use of 12% Sodium hypochlorite solution, fed into the incoming water via a chemical feed pump.

2.2 As required by the Drinking Water Safety Act, the Altona Rural Water Services Coop Ltd. ensures continuous re-chlorination is maintained at both reservoirs. A spare chemical pump is kept on hand at the reservoir as well as necessary spare parts.

Chlorine residuals are monitored daily at both reservoirs and bi-weekly in the distribution system bacteriological samples are taken. Free and total chlorine residuals are recorded and sent to the Office of Drinking Water at the end of each month.

2. List of Water Quality Standards:

Total Coliform	Less than one total coliform detectable per 100 mL in all distributed water
E. coli	Less than one E. coli bacteria detectable per 100 mL in all distributed water
Chlorine Residual	A free chlorine residual of at least 0.1 mg/L at all times at any point in the water distribution system
Total Trihalomethanes (THMs)	Less than or equal to 0.10 mg/L as locational annual average of quarterly samples
Total Haloacetic Acids (HAAs)	Less than or equal to 0.08 mg/L as locational annual average of quarterly samples
Lead	Less than or equal to 0.005 mg/L based on samples collected at a cold water tap or other appropriate location where water may be used for drinking or food preparation
Manganese	Less than or equal to 0.12 mg/L

***Total metals sample results have been included as appendix “A” at the end of this report**

3.1 Disinfectant Residual overall performance/results

	Regulatory Requirements	Altona PWS Performance	Horndean
A. Free Chlorine Residual entering the Distribution	>0.5mg/L	100%	100%
B. Frequency of Testing entering the Distribution System	Daily	100%	100%
C. Free Chlorine Residual in the Distribution System	> 0.1 mg/L	100%	100%
D. Frequency of testing in the Distribution System	Bi-weekly	100%	100%
E. Report Submissions	Monthly	100%	100%

3.2 Bacteriological Monitoring and Reporting

A. Frequency of Testing	Bi-weekly	100%	100%
B. Total coliforms present in samples	0 TC per 100ml	100%	100%
C. Escherichia coli present in Samples	0 TC per 100ml	100%	100%

3.3 Disinfection Byproducts Monitoring and Reporting

- A. Trihalomethane Sampling Requirements Quarterly, every other year.
- B. Total Trihalomethane Standard <0.100 mg/L (average of quarterly samples)
The average of four samples is >0.100mg/L, therefore NOT meeting the standard for THMs in 2025
Quarter 1 0.17700 Quarter 2 0.07420 Quarter 3 0.25500 Quarter 4 0.15000 Average is 0.16405
- C. Haloacetic Acid Sampling Requirements Quarterly, every other year.
- D. Total Haloacetic Acid Standard <0.080 mg/L (average of quarterly samples)
In 2025 we were meeting the standard for HAA.

4. Water Systems Failures and Corrective Action

5. Drinking Water Safety Orders on your System and Actions taken in response:

In 2025 no Drinking Water Safety Orders were issued for the Altona Rural Water Services Coop.

6. Boil Water Advisories Issued and Actions taken in response:

In 2025 there were no boil water advisories issued.

7. Warning issued or Charges laid on the System in accordance with the Drinking Water Safety Act:

In 2025 no Warnings were issued nor were charges laid on the Altona Rural Water Services Coop

8. Major Expenses Occurred: None

9. Future System expansion and or Increased Production:

Looking at adding on an additional water storage reservoir, waiting for confirmation on grant funding. Hopeful that Expansion may start as early as 2026.

10. Lead Samples taken at 20 different locations:

There were no lead exceedances detected at any of the locations tested in 2025(20). Testing will resume at an Additional 10 locations in 2026.

2025 Altona Rural Water Cooperative Residential Lead Monitoring Results			
<u>Customer</u>	<u>Date tested</u>	<u>Lead Result - Not to exceed 0.005 mg/L</u>	
Location #1	26/08/25	0.000846	
Location #2	26/08/25	0.000434	
Location #3	26/08/25	0.000286	
Location #4	26/08/25	0.000751	
Location #5	26/08/25	0.000351	
Location #6	26/08/25	0.000304	
Location #7	26/08/25	0.000538	
Location #8	26/08/25	0.000890	
Location #9	26/08/25	0.002640	
Location #10	26/08/25	0.000537	
Location #11	09/09/25	0.000446	
Location #12	09/09/25	0.000355	
Location #13	09/09/25	0.001040	
Location #14	09/09/25	0.002070	
Location #15	09/09/25	0.000365	
Location #16	09/09/25	0.000859	
Location #17	09/09/25	0.001370	
Location #18	09/09/25	0.000101	
Location #19	09/09/25	0.000638	
Location #20	09/09/25	0.000221	

Appendix A – Total Manganese distributed water sampling results (2025):

Analytical Results Evaluation

Matrix: Water

				Client sample ID	Altona Rural Water Co-op 3 - Distribution @ (add from coc) Distribution	---	---	---	---	---	---
				Client sampling date / time	26-Aug-2025 10:30	---	---	---	---	---	---
				Sub-Matrix	Water	---	---	---	---	---	---
Analyte	CAS Number	Method/Lab	Unit		WP2514412-001	---	---	---	---	---	---
				Result		---	---	---	---	---	---
Field Tests											
Chlorine, free, field	7782-50-5	EF001/WP	mg/L	0.07		---	---	---	---	---	---
Chlorine, total, field	7782-50-5	EF001/WP	mg/L	0.27		---	---	---	---	---	---
Total Metals											
Manganese, total	7439-96-5	E420/WP	µg/L	0.66		---	---	---	---	---	---

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