



2022 Summary Report

for the

Town of Minto

CLIFFORD DRINKING WATER SYSTEM

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1.0 INTRODUCTION

1.1 Background

In December 2002, the Safe Drinking Water Act (SDWA) was enacted. Subsequently, on June 1, 2003, under the SDWA, a new '*Drinking-Water Systems Regulation*', Ontario Regulation 170/03 (O. Reg. 170/03), was enacted. In addition, several supporting regulations and procedures were also enacted to assist with the administration of O. Reg. 170/03. The list of relevant drinking-water legislation is presented in Appendix A.

The SDWA identifies the responsibilities of owners and operating authorities of municipal drinking water systems (SDWA, Sections 11 and 19). Their duties include ensuring that:

- All water provided by the drinking water system meets prescribed drinking water quality standards;
- The drinking water system is operated in accordance with the Act and regulations and is kept in a good state of repair;
- All facilities are appropriately staffed and supervised;
- All sampling, testing and monitoring requirements are complied with;
- All reporting requirements are complied with; and
- Only persons holding valid operator's certificates operate the drinking water system.

O. Reg. 170/03 establishes the standard for protection of drinking water. It includes sets of schedules, specific to municipal residential systems that define requirements for:

- Minimum treatment levels;
- Operational checks;
- Chemical and microbiological sampling and testing;
- Adverse results reporting;
- Corrective procedures; and
- Report documentation and retention.

The system's Municipal Drinking Water Licence (MDWL), Drinking Water Works Permit (DWWP) and Permit To Take Water (PTTW) imposes system specific rules and conditions applicable to the standards set out in O. Reg. 170/03.

1.2 Objective

This Summary Report for the Clifford Drinking Water System is being prepared in fulfillment of Schedule 22 of O. Reg. 170/03 and will be given to Members of the Municipal Council. This report covers the period from January 1, 2022 to December 31, 2022.

This Summary Report lists any requirements of the Act, the regulations, the PTTW, the MDWL, the DWWP and any order that the system failed to meet during the period of this report. For any such failure, the measures that were taken to correct the failure are detailed. The report also includes relevant information that will assist the Town of Minto to assess the water work's capability to meet existing and future planned uses of the system.

1.3 Description of Drinking Water System

Clifford is a community with a population of approximately 950 people and approximately 380 residential properties, located within the Town of Minto at the northwest corner of Wellington County, along the route of Provincial Hwy. No. 9.

Clifford is serviced by a municipal Drinking Water System that is comprised of: three drilled well supplies, two pumphouses, an elevated 1,275 m³ storage tank and a distribution network of watermains. The watermains range in diameter from 100 mm to 300 mm. The municipal water system is also used for fire protection and has approximately 46 fire hydrants throughout the distribution system. In the event of a prolonged power outage, a portable generator can be moved to Wells #1, #3 & # 4 to supply back-up power.

Well #3 is a deep overburden well and serves as the primary production well for the system. Wells #1 and #4 are bedrock wells and provide peak flows and redundancy to the system. Wells #3 and #4 are a *combined supply* and are not allowed to operate together. All three operating wells are equipped with submersible pumps; the pump in Well #3 is a variable speed pump.

The pumphouse on Allan Street serves Well #1. The second pumphouse is in the base of the elevated storage tank on Nelson Street and serves Wells #3 and #4. The treatment employed in both pumphouses includes the use of sodium silicate for the sequestering of iron and sodium hypochlorite for disinfection of the raw water. A continuous online analyzer measures the levels of free chlorine residual at point of entry (POE). When an alarm for high and/or low free chlorine is activated, there is a corresponding lockout of well pumps. Subsequent to treatment, supply from Well #1 is discharged from the chlorine contact pipe into the distribution system, while supply from Wells #3 and #4 is discharged from the chlorine contact pipe directly into the elevated storage tank once adequate contact time has been achieved.

The Clifford Drinking Water System operates under MDWL 106-101 Issue 3, DWWP 106-201 Issue 3 and PTTW #0441-AQ4H8H.

2.0 SUMMARY OF UPGRADES

2.1 Upgrades Completed in 2022

The disinfection treatment system in the Clifford Drinking Water System meets all of the standards imposed by O. Reg. 170/03 and the MECP's "*Procedures for Disinfection of Drinking Water in Ontario*".

Typically, maintaining the system includes repairs and/or replacement of individual components as necessary. In 2022 \$7,361 was spent on pumphouse/watermain repairs & maintenance, \$1,620 was spent on engineering to create a servicing strategy for future system needs, \$740 was spent completing the SCADA Panel connection to the water tower, \$4,200 on the Tower inspection and \$710 to complete the Allan St. watermain replacement.

The following purchase was also made on equipment that is shared between all of Minto's water systems. \$17,780 on the water meters.

Preventative maintenance measures are being followed to ensure proper operation of the Drinking Water System.

2.2 Upgrades Scheduled to be Completed in 2023

In 2023, the Town of Minto is planning to spend \$5,000.00 for water treatment equipment. The following will also be purchased to be shared within the water department. \$100,000 on vehicle replacement, \$50,000 on the SCADA monitoring system and \$20,000 for water meters. \$182,000 on watermain replacement (location to be determined), \$5,000 on radio upgrades and \$15,000 for engineering of future water system needs.

3.0 OPERATION OF THE DRINKING WATER SYSTEM

3.1 Summary of the Quantities and Flow Rates of Water Supplied

O. Reg. 170/03 stipulates that a summary of the quantities and flow rates of the water supplied from each of Clifford's wells be included in the Summary Report. Tables 3.1, 3.2 and 3.3 provide a summary of quantities and flow rates supplied during 2022, for Wells #1, #3 and #4 respectively, on a monthly basis. Well #1 supplies the Allan Street Wellhouse. Wells #3 and #4 supply the Nelson Street Wellhouse; they are a *combined* supply and are not allowed to operate together.

Table 3.1
Clifford Drinking Water System – Well #1
Treated Water Flow, Turbidity, and Disinfectant Residual
January 1, 2022 – December 31, 2022

Month	Raw Water Flow (Max Daily Volume = 1,309 m ³ /day) (Max Flow Rate = 15.15 L/s)			Chlorine	Monthly Averages				Distribution System Disinfectant
	Operator Observed Peak Flow (L/s)	Maximum Day Flow (m ³ /day)	Monthly Total (m ³)		Monthly Total (L)	Treated Water Turbidity		Treated Water Disinfectant Point of Entry	
				No. of Samples Collected		Monthly Average Turbidity (NTU)	No. of Treated Samples Collected	Monthly Average Residual (mg/L)	
January	10.7	96	2,080	43	9	0.36	31	1.27	See Clifford Well #3 Data
February	10.7	86	1,452	44	7	0.32	28	1.27	
March	10.8	106	1,762	66	10	0.21	31	1.20	
April	10.8	126	1,510	21	6	0.30	30	1.18	
May	10.7	96	1,715	64	9	0.35	31	1.21	
June	10.7	179	2,151	59	6	0.25	30	1.27	
July	10.5	131	1,825	22	6	0.31	31	1.23	
August	10.5	102	1,619	54	6	0.34	31	1.23	
September	10.6	984	3,679	109	5	0.31	30	1.27	
October	10.2	423	1,965	82	4	0.29	31	1.35	
November	10.3	199	3,315	86	5	0.28	30	1.38	
December	10.4	140	3,321	88	4	0.30	30	1.16	
Total			26,394	738	77		364		
Average			2,200			0.30		1.25	
Maximum	10.8	984							

Disinfectant Compound Used: **12% Sodium Hypochlorite**
 Form of Residual Displayed: **Free**
 Quantity of Disinfectant Used During 2022: **738 L**
 Distribution System Minimum Target Residual: **0.2 mg/L**

Table 3.2
Clifford Drinking Water System – Well #3
Treated Water Flow, Turbidity, and Disinfectant Residual
January 1, 2022 – December 31, 2022

Month	Raw Water Flow (Max Flow Rate = 7.6 L/s) (Max Daily Volume = 1,309 m ³ /d) This is the allowable combined limits for Well # 3 & Well # 4			Chlorine	Monthly Averages				Distribution System Disinfectant
	Operator Observed Peak Flow (L/s)	Maximum Day Flow (m ³ /day)	Monthly Total (m ³)		Monthly Total (L)	Treated Water Turbidity		Treated Water Disinfectant Point of Entry	
				No. of Samples Collected		Monthly Average Turbidity (NTU)	No. of Treated Samples Collected	Monthly Average Residual (mg/L)	
January	4.6	160	3,215	64	9	0.35	31	1.24	47
February	4.6	148	3,297	60	7	0.38	28	1.29	43
March	4.7	241	3,242	70	10	0.21	31	1.25	47
April	4.7	243	3,653	67	6	0.26	31	1.27	47
May	4.6	221	3,760	88	8	0.28	31	1.33	48
June	4.4	193	3,782	109	5	0.26	30	1.28	49
July	4.3	204	3,544	65	7	0.32	31	1.27	44
August	4.3	218	3,954	54	7	0.29	31	1.25	49
September	4.3	302	2,867	128	5	0.23	28	1.33	49
October	4.2	183	3,621	85	4	0.46	31	1.22	49
November	4.3	210	2,154	42	5	0.18	30	1.24	45
December	4.4	180	2,076	64	4	0.26	31	1.27	47
Total			39,165	896	77		364		564
Average			3,264			0.29		1.27	
Maximum	4.7	302							

Disinfectant Compound Used: **12% Sodium Hypochlorite**

Form of Residual Displayed: **Free**

Quantity of Disinfectant Used During 2022 for Wells #3 and #4 combined: **896 L** *(Wells #3 and #4 share the same NaOCl storage container)

Distribution System Minimum Target Residual: **0.2 mg/L**

Table 3.3
Clifford Drinking Water System – Well #4
Treated Water Flow, Turbidity, and Disinfectant Residual
January 1, 2022 – December 31, 2022

Month	Raw Water Flow (Max Flow Rate = 15.15 L/s) (Max Daily Volume = 1,309 m ³ /d) This is the allowable combined limits for Well # 3 & Well # 4			Chlorine	Monthly Averages				Distribution System Disinfectant
	Operator Observed Peak Flow (L/s)	Maximum Day Flow (m ³ /day)	Monthly Total (m ³)		Monthly Total (L)	Treated Water Turbidity		Treated Water Disinfectant Point of Entry	
				No. of Samples Collected		Monthly Average Turbidity (NTU)	No. of Treated Samples Collected	Monthly Average Residual (mg/L)	No. of Samples Collected
January	9.9	44	1,115	See Clifford Well #3 Data	9	0.34	31	1.21	See Clifford Well #3 Data
February	9.8	35	858		7	0.30	28	1.29	
March	9.9	48	974		8	0.21	31	1.30	
April	9.9	68	954		6	0.24	31	1.35	
May	9.9	42	1,061		8	0.33	31	1.34	
June	9.9	54	956		5	0.32	30	1.23	
July	9.9	81	1,014		7	0.31	31	1.16	
August	9.9	54	1,082		6	0.38	31	1.16	
September	9.9	703	2,863		5	0.40	30	1.28	
October	9.9	58	1,256		4	0.52	31	1.34	
November	10.0	73	1,173		5	0.51	30	1.36	
December	10.0	74	1,209		4	0.55	30	1.30	
Total			14,515	896	74		365		
Average			1,210			0.37		1.28	
Maximum	10.0	703							

Disinfectant Compound Used: **12% Sodium Hypochlorite**
 Form of Residual Displayed: **Free**
 Quantity of Disinfectant Used During 2022 for Wells #3 and #4 combined: **896 L** *(Wells #3 and #4 share the same NaOCl storage container)
 Distribution System Minimum Target Residual: **0.2 mg/L**

Table 3.4
Clifford Drinking Water System – Well #3 & #4 Combined
Treated Water Flow
January 1, 2022 – December 31, 2022

Month	Treated Water Flow (Well #3 Max Flow Rate = 7.6 L/s) (Well #4 Max Flow Rate = 15.1 L/s) (Max Daily Volume = 1309 m ³ /d)				Chlorine
	Operator Observed Peak flow Well #3 (L/s)	Operator Observed Peak Flow Well #4 (L/s)	Maximum Day Flow (m ³ /day)	Monthly Total (m ³)	Monthly Total (L)
January	4.6	9.9	160	4,330	64
February	4.6	9.8	148	4,155	60
March	4.7	9.9	241	4,216	70
April	4.7	9.9	243	4,607	67
May	4.6	9.9	221	4,821	88
June	4.4	9.9	193	4,738	109
July	4.3	9.9	204	4,558	65
August	4.3	9.9	218	5,036	54
September	4.3	9.9	703	5,730	128
October	4.2	9.9	183	4,877	85
November	4.3	10.0	210	3,327	42
December	4.4	10.0	180	3,285	64
Total				53,680	896
Average				4,473	
Maximum	4.7	10.0	703		

3.2 Comparison of Actual Rates and Maximum Allowable Rates

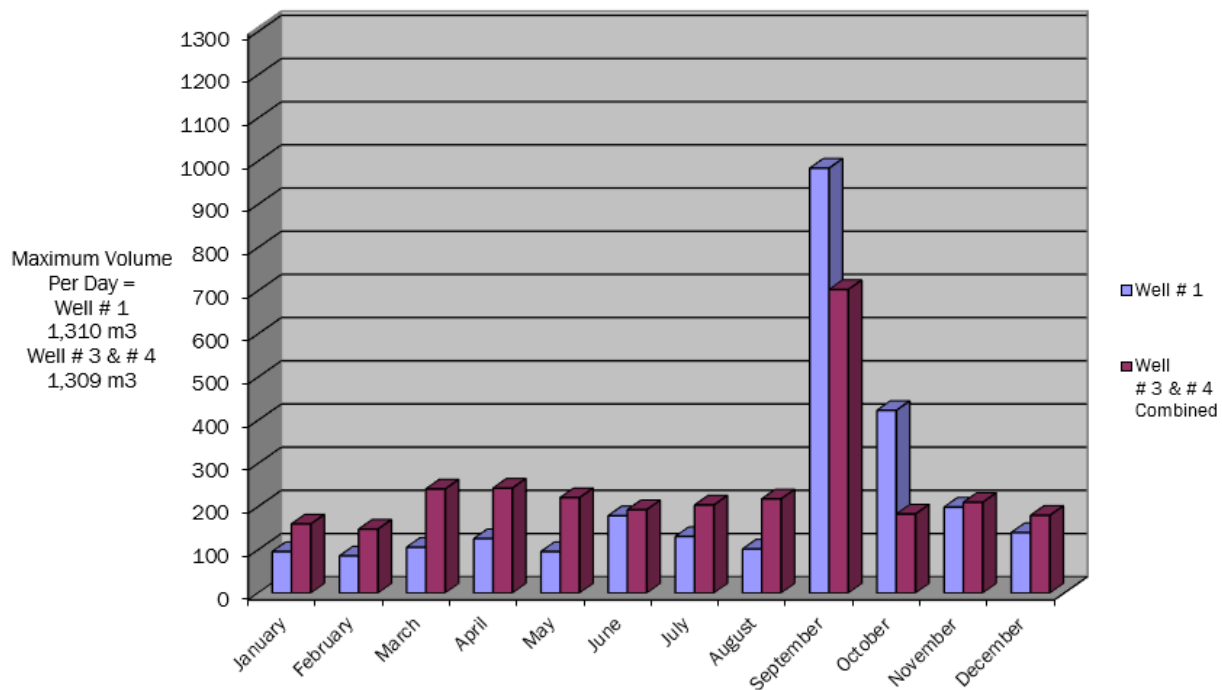
O. Reg. 170/03 stipulates that a summary of the quantities and flow rates of the water supplied from each of Clifford’s wells be included in the Summary Report and compared against the rated capacity and flow rate for the system. As such, a comparison of the instantaneous peak flow to the PTTW’s rated capacity is included and a comparison of the maximum daily flow to the MDWL’s rated capacity is included in Table 3.5.

Table 3.5
Comparison of Flow Rates and Flow Capacities
To
Rated Flow Rate (PTTW) and Rated Capacity (MDWL)

Well Supply	PTTW Max. Flow Rate	Operator Observed Peak Flow	Percent of Maximum Allowable	MDWL Schedule Maximum Daily Quantity	Maximum Daily Flow	Percent of Maximum Allowable
	L/s	L/s	%	m ³ /day	m ³ /day	%
Well #1	15.1	10.8	71	1,310	984	75
Well #3	7.6	4.7	62	655	302	46
Well #4	15.1	10.0	66	1,310	703	54

The MDWL stipulates, “The maximum daily volume of treated water that flows from the treatment subsystem to the distribution system shall not exceed the value identified as the rated capacity in Schedule C Table 1.”

Table 3.6
Maximum Water Usage Per Day by Month



Short-term peaks, in excess of permitted values, may occur at pump start up, while doing specific maintenance procedures or during emergency demand situations.

The time and duration of any flow exceedance is recorded for each event along with the reason for the occurrence. There were no extended exceedances or exceedances over the daily permitted rate in the Clifford Drinking Water System.

3.3 Raw Water Qualities and Required Treatment

The Clifford Drinking Water System continues to have Arsenic (As) levels for wells #1 and #4 which exceed half the MAC (maximum acceptable concentration) of 10 ug/L. Reg. 170/03 Section 13.5 states “If a test result obtained under section 13-2 or 13-4 for a parameter exceeds half of the standard prescribed for the parameter in Schedule 2 to the Ontario Drinking Water Quality Standards, the frequency of sampling and testing for that parameter under that section shall be increased so that at least one water sample is taken and tested every three months”, therefore this will result in continuous quarterly sampling for the Clifford wells, see Table below. During our required Schedule 23 & 24 (once every 36 months) treated water sampling, Minto received an adverse result for Arsenic @ well #1 of 12.3 ug/L. Minto operations staff re-sampled well #1 for Arsenic on June 1st 2022. The re-sample result was 6.9 ug/L, the MECP was notified of the re-sample result and no further action was required. All additional parameters included in the Schedule 23 & 24 sampling were below the provincial standards.

Table 3.7
2022 Arsenic Sample Results
for Clifford Drinking Water System

	Parameter	Sample Date	Result Value	Unit of Measure	MAC
Well # 1	Arsenic – (Quarterly)	25/02/22	7.9	ug/L	10
	Arsenic – (Quarterly)	13/05/22	8.6	ug/L	10
	Arsenic – (Sch. 23 & 24)	24/05/22	12.3	ug/L	10
	Arsenic – (Sch. 23 & 24) (Resample)	01/06/22	6.9	ug/L	10
	Arsenic – (Quarterly)	19/08/22	6.7	ug/L	10
	Arsenic – (Quarterly)	25/11/22	6.5	ug/L	10
Well # 4	Arsenic – (Quarterly)	25/02/22	7.8	ug/L	10
	Arsenic – (Quarterly)	13/05/22	8.7	ug/L	10
	Arsenic – (Sch. 23 & 24)	24/05/22	9.1	ug/L	10
	Arsenic – (Quarterly)	19/08/22	7.6	ug/L	10
	Arsenic – (Quarterly)	25/11/22	8.9	ug/L	10

The Allan Street Wellhouse (*Well #1*) and the Nelson Street Wellhouse (*Wells #3 and #4*) are equipped with continuous monitoring analyzers for measuring free chlorine residuals. The chlorine analyzer is equipped with an alarm to a monitoring centre who will call the on-call water operator to notify of a critical alarm. The average monthly turbidity and free chlorine residual measurements for treated water are presented in Tables 3.1, 3.2 and 3.3.

There were no turbidity readings exceeding 1.0 NTU in 2022. The minimum, maximum, and average turbidity readings for raw water from each well are presented in Table 3.8.

Sodium Hypochlorite is the disinfectant used for Wells #1, #3 and #4. Free chlorine residual is monitored continuously at the “*Point of Entry*” (POE) into the distribution system. Additional “*grab samples*” are taken daily (*excluding weekends and holidays*) within the distribution system and tested for the free chlorine residual. The minimum, maximum and average values of free chlorine residual at the POE are presented in Table 3.8.

The free chlorine residual in the distribution system ranged between 0.55 mg/L and 1.72 mg/L. O. Reg. 170/03, Schedule 1-2 stipulates that the free chlorine residual can never be less than 0.05 mg/L. In addition, O. Reg. 170-03, Schedule 1-4 stipulates that the water treatment equipment must be “ *...capable of achieving, at all locations within the distribution system, a free chlorine residual of 0.2 mg/L ...*”. The Clifford Drinking Water System meets both of these requirements.

Table 3.8
2022 Annual Summary of
Raw Water Turbidity and POE Free Chlorine Residual
for Clifford Drinking Water System

Location	Range	Raw Water Turbidity	Free Chlorine Residual at POE
		NTU	mg/L
Well #1	Minimum	0.07	0.80
	Maximum	0.89	1.70
	Average	0.33	1.25
Well #3	Minimum	0.07	0.85
	Maximum	0.87	1.65
	Average	0.36	1.27
Well #4	Minimum	0.07	0.89
	Maximum	0.97	1.68
	Average	0.34	1.28

3.4 Summary of Treatment Chemicals Used

The disinfectant chemical used in the Clifford Drinking Water System is 12% sodium hypochlorite (NaOCl). Measurements of free residual are recorded on a continuous basis. Wells #3 and #4 share the same NaOCl storage container; 896 L of NaOCl is the combined usage for Wells #3 and #4. In 2022, a total of 1,634 L of NaOCl was used for all three wells. The annual average dosage rates for Well #1, and Wells #3 and #4 are presented in Table 3.9.

In 2022, 898 L of sodium silicate was used for the sequestering of iron. The annual average dosage rates for Well #1, Well #3 and Well #4 are presented in Table 3.9.

Table 3.9
Clifford Drinking Water System
2022 Annual Summary of
Treatment Chemicals Used

Treatment Chemical	Well	Volume Used	Mass Used	Annual Flow	Dosage Rate
		L	kg	m ³	mg/L
12 % Sodium Hypochlorite (NaOCl)	Well #1	738	88.6	26,394	3.36
	Well #3 & Well #4	896	107.5	53,680	2.00
	Total	1,634	196.1	80,074	2.45
Sodium Silicate (NaSi)	Well #1	228	317.3	26,394	12.02
	Well # 3 & Well #4	670	931.0	53,680	17.34
	Total	898	1,248.0	80,074	15.59

- Note:**
- Wells #3 and #4 share the same NaOCl storage container; 896 L is the combined NaOCl usage for both wells.
 - Wells #3 and #4 share the same storage container for the sequestering agent, sodium silicate (NaSi); 670 L is the combined NaSi usage for both wells
 - 12% Sodium Hypochlorite = 120,000 mg/L = 120 kg/m³
 - Sodium Silicate has a specific gravity = 1.39

4.0 COMPLIANCE

4.1 Assessment of Compliance

The objective of the Summary Report is to list any requirements of the Act, the regulations, the PTTW, the MDWL, the DWWP and any MECP order that the system failed to meet from January 1, 2022 to December 31, 2022, and the corresponding corrective measure(s) taken. Compliance was assessed as follows:

- MECP Completed their Annual Inspection of the Clifford DWS on May 18, 2022. Final inspection rating score 100%
- There were **no MECP Orders** issued for the Clifford Drinking Water System in 2022.
- The MDWL imposes the specific rules and conditions governing the standards set out in O. Reg. 170/03. It is an important instrument in defining the requirements of compliance of a Drinking Water System.
- O. Reg. 170/03 establishes the standard for protection of drinking water; specifically, through 12 schedules that municipal residential drinking water systems must follow to meet the requirements of the regulation.
- The SDWA clearly identifies the responsibilities of owners and operating authorities of municipal drinking water systems. It places a recommended statutory standard of care on those who have oversight of municipal drinking water systems. In essence, the standard of care has two themes: be informed and exercise diligent oversight.
- Adverse Test Results reported under the Safe Drinking Water Act, 18(1) or O Reg.170/03, Schedule 16-4
 - a) Adverse Water Quality Incidents (AWQI) refer to any unusual test results that do not meet provincial water quality standard or situation where the disinfection of the drinking water may be compromised.

Table 4.1
Adverse Water Quality Incidents

AWQI #	Date	Parameter	Result	Corrective Action
158537	May 24, 2022	Sodium	25.9 mg/L	Resample Well #1 on June 1, 2022
158539	May 24, 2022	Sodium	22.3 mg/L	Resample Well #3 on June 1, 2022
158538	May 24, 2022	Arsenic	12.3 ug/L	Resample Well #1 on June 1, 2022

During our required Schedule 23 & 24 (once every 36 months) and required Sodium & Fluoride (once every 60 months) treated water sampling, Minto received adverse results for Sodium (wells #1 & #3) & Arsenic (well #1). Minto operations staff re-sampled for the 3 adverse samples on June 1st 2022. The re-sample results were 6.9 ug/L for Arsenic @ well #1, 22.3 mg/L for Sodium @ well #1 and 20.5 mg/L for Sodium @ well #3. A notice was posted to the Town of Minto’s website detailing the elevated Sodium levels per the Health Units direction. The AWQI’s were closed and no further action was required.

The provincial MAC (maximum acceptable concentration) standard for Sodium is 20 mg/L. If a sample result exceeds 20 mg/L, then a re-sample must be collected from the same location as the adverse sample was collected. The MECP and Public Health Unit must be notified of both sample results. If the re-sample still exceeds 20 mg/L, then the Public Health Unit requires the Drinking Water System Owner to post a notice of the elevated Sodium levels on their website for the public’s information.

4.2 Summary of Compliance

The Town of Minto works diligently to maintain compliance, with all the requirements of the SDWA, O. Reg. 170/03, as well as the Clifford Drinking Water System's MDLW 106-101 Issue 3, DWWP 106-201 Issue 3 and PTTW #0441-AQ4H8H.

Table 4.2 identifies any non-compliances related to the following: SDWA, O. Reg. 170/03, the MDWL, the DWWP. and the PTTW.

Table 4.2
Clifford Drinking Water System
Requirements the System Failed to Meet

Compliance With	Description of Item the System Failed to Meet	Correction of This Situation How/When
MDWL # 106-101 Issue 3	<i>Clifford Drinking Water System is in compliance with all of the requirements of the MDWL</i>	
DWWP # 106-201 Issue 3	<i>Clifford Drinking Water System is in compliance with all of the requirements of the DWWP</i>	
O. Reg. 170/03	<i>Clifford Drinking Water System is in compliance with all of the requirements of O. Reg. 170/03</i>	
SDWA	<i>Clifford Drinking Water System is in compliance with all of the requirements of the SDWA.</i>	
PTTW #0441-AQ4H8H	<i>Clifford Drinking Water System is in compliance with all of the requirements of the PTTW</i>	

Dated this 14th day of March 2023



Todd Rogers
 Water Services Manager