



## STAGE 2 DISINFECTANTS AND DISINFECTION BY-PRODUCTS RULE SUMMARY

NORTH DAKOTA DEPARTMENT OF ENVIRONMENTAL QUALITY

DIVISION OF MUNICIPAL FACILITIES

SFN 60320 (9-2021)

Public Water System (PWS) Name:		PWS Number: (ex: ND1234567)		
Operator Name:				
Reporting Year:	<input type="checkbox"/> 1 <sup>st</sup> Quarter (Report by April 10 <sup>th</sup> )	<input type="checkbox"/> 2 <sup>nd</sup> Quarter (Report by July 10 <sup>th</sup> )		
	<input type="checkbox"/> 3 <sup>rd</sup> Quarter (Report by October 10 <sup>th</sup> )	<input type="checkbox"/> 4 <sup>th</sup> Quarter (Report by January 10 <sup>th</sup> )		
<b>Note: Systems that do <u>not</u> use the State Chemistry Laboratory must attach information identifying the location, sampling date, and result for each sample. All testing must be performed by a certified laboratory.</b>				
<b>Section 1. Bromate</b> (only for systems using Ozone)		<input type="checkbox"/> Routine Monitoring	<input type="checkbox"/> Reduced Monitoring	
Number of samples taken during quarter:				
Quarterly Average:		Running Annual Average:		
MCL Exceeded? (0.010 mg/L)      Yes: <input type="checkbox"/> No: <input type="checkbox"/>				
Systems must maintain a running annual average of less than or equal to 0.0025 mg/L for finished water bromate to reduce the monitoring for bromate to once per quarter.				
<b>Section 2. TTHM and HAA5</b>		<input type="checkbox"/> Routine Monitoring	<input type="checkbox"/> Reduced Monitoring	
<b>TTHM Data (MCL = 0.080 mg/L)</b>	<b>TTHM Site</b>	<b>TTHM Site</b>	<b>TTHM Site</b>	<b>TTHM Site</b>
Site ID (Ex: STG2-01):				
Sample Date:				
Quarterly Average 1 (Reporting Quarter) (mg/L):				
Quarterly Average 2 (Previous Quarter) (mg/L):				
Quarterly Average 3 (2 <sup>nd</sup> Oldest) (mg/L):				
Quarterly Average 4 (3 <sup>rd</sup> Oldest) (mg/L):				
Locational Running Annual Average(LRAA) (mg/L):				
MCL Exceeded (Y/N)?				
OEL: ((Q1Avg*2) + Q2Avg + Q3Avg) (mg/L)				
Does OEL Exceed MCL (Y/N)?				

HAA5 Data ( MCL = 0.060 mg/L)	HAA5 Site	HAA5 Site	HAA5 Site	HAA5 Site
Site ID (Ex: STG2-01):				
Sample Date:				
Quarterly Average 1(Reporting Quarter) (mg/L):				
Quarterly Average 2 (Previous Quarter) (mg/L):				
Quarterly Average 3 (2 <sup>nd</sup> Oldest) (mg/L):				
Quarterly Average 4 (3 <sup>rd</sup> Oldest) (mg/L):				
Locational Running Annual Average(LRAA) (mg/L):				
MCL Exceeded (Y/N)?:				
OEL = ((Q1Avg*2) + Q2Avg + Q3Avg) (mg/L):				
Does OEL Exceed MCL (Y/N)?				

Definitions:

TTHM - Total Trihalomethanes	Quarter 1 Average -	Quarter you are reporting for (Ex: Oct-Dec)
HAA5 - Haloacetic Acids	Quarter 2 Average -	Quarter previous to Quarter 1 (Ex: Jul-Sep)
OEL - Operational Evaluation Level	Quarter 3 Average -	Quarter previous to Quarter 2 (Ex: Apr-Jun)
MCL - Maximum Contaminant Level	Quarter 4 Average -	Quarter previous to Quarter 3 (Ex: Jan-Mar)

**Section 4. TOC and Alkalinity**  
(for surface water systems only)

Routine Monitoring

Reduced Monitoring

**Note: Systems that do not use the State Chemistry Laboratory must attach information identifying the location, sampling date, and result for each sample. All testing must be performed by a certified laboratory.**

Number of paired samples taken last quarter :

Month:	Ratio of Actual TOC Removed to Required TOC Removal:
Month:	Ratio of Actual TOC Removed to Required TOC Removal:
Month:	Ratio of Actual TOC Removed to Required TOC Removal:

	Quarterly Average (Reporting Quarter):		
	Quarterly Average (Previous Quarter) :		
	Quarterly Average (2 <sup>nd</sup> Oldest Quarter) :		
	Quarterly Average (3 <sup>rd</sup> Oldest Quarter) :		
	Running Annual Average:		
	In compliance (>= 1.00)?	Yes: <input type="checkbox"/>	No: <input type="checkbox"/>

Using Alternative Criteria?

Yes:  No:

Mark which alternative compliance criteria are being used (results required if using to substitute for TOC Removal).

NOTE: Compliance for all criteria is based on running annual average.

- 1. Source water TOC < 2.0 mg/L
- 2. Treated water TOC < 2.0 mg/L
- 3. Source water TOC < 4.0 mg/L, source water alkalinity > 60 mg/L (as CaCO<sub>3</sub>) and TTHM ≤ 0.040 mg/L and HAA5 ≤ 0.030 mg/L
- 4. TTHM ≤ 0.040 mg/L and HAA5 ≤ 0.030, and the system used only chlorine for primary and residual disinfection
- 5. Source water SUVA ≤ 2.0 L/mg-m
- 6. Treated water SUVA ≤ 2.0 L/mg-m
- 7. Softening that results in lowering the treated water alkalinity to less than 60 mg/L (as CaCO<sub>3</sub>), measured monthly and calculated quarterly as a running annual average.
- 8. Softening that results in removing at least 10 mg/L of magnesium hardness (as CaCO<sub>3</sub>), measured monthly and calculated quarterly as a running annual average.

**Send this form along with appropriate sampling locations, dates, and results within 10 days after the end of a quarter to:**

**Division of Municipal Facilities  
4201 Normandy St.  
Bismarck, ND 58503-1324  
Telephone Number 701-328-6624  
Fax Number 701-328-5200**