

**National Pollutant Discharge Elimination System/State Disposal System**

**MN0040738**

**Permittee:** Alexandria Lakes Area Sanitary District  
**Facility name:** Alexandria Lakes Area Sanitary District  
**Receiving water:** Winona - Class 2B, 3, 4A, 4B, 5, 6 water  
**City:** Alexandria **County:** Douglas  
**Issuance date:** TBD  
**Expiration date:** TBD

The state of Minnesota, on behalf of its citizens through the Minnesota Pollution Control Agency (MPCA), authorizes the Permittee to operate a disposal system at the facility named above and to discharge from this facility to the receiving water named above, in accordance with the requirements of this permit.

The goal of this permit is to reduce pollutant levels in point source discharges and protect water quality in accordance with the U.S. Clean Water Act, Minnesota statutes and rules, and federal laws and regulations.

This permit is effective on the issuance date identified above. This permit expires at midnight on the expiration date identified above.

Signature:

*[Type e-Signature]*

*This document has been electronically signed.*

*for the Minnesota Pollution Control Agency*

Paul C. Scheirer  
Supervisor  
Northeast/Northwest Regional Unit  
Municipal Division

## Resources

Submit electronic Discharge Monitoring Reports (eDMR) via the MPCA e-Services at:

[https://rsp.pca.state.mn.us/TEMPO\\_RSP/Orchestrate.do?initiate=true](https://rsp.pca.state.mn.us/TEMPO_RSP/Orchestrate.do?initiate=true)

Submit documents electronically to [wq.submittals.mPCA@state.mn.us](mailto:wq.submittals.mPCA@state.mn.us). **Note:** The Water quality submittals form located at <https://www.pca.state.mn.us/sites/default/files/wq-wwprm7-71.docx> must be attached.

For eDMR and other permit reporting issues, use the directory listed at the bottom of the Discharge Monitoring Report page: <https://www.pca.state.mn.us/water/discharge-monitoring-reports>

For specific permit requirements, contact your compliance staff: <https://www.pca.state.mn.us/water/wastewater-compliance-and-enforcement-staff-contacts>

For wastewater permit program general questions, contact the MPCA at 651-282-6143 or 800-657-3938, or reference the permit user's manual at <https://www.pca.state.mn.us/sites/default/files/wq-wwtp7-09.pdf>.

Additional guidance and resources are located at: <https://www.pca.state.mn.us/water/wastewater>.

A printable summary of sampling requirements can be found at: <https://www.pca.state.mn.us/water/wastewater-permit-submittal-checklists>.

A printable checklist of submittals can be found at: <https://www.pca.state.mn.us/water/wastewater-permit-submittal-checklists>

## Table of Contents

	Page
1. Permitted facility description.....	4
2. Location map of permitted facility.....	5
3. Flow diagram.....	6
4. Summary of stations and station locations.....	8
5. Permit requirements.....	9
6. Submittal action summary .....	39
7. Limits and monitoring.....	42

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## 1. Permitted facility description

The Alexandria Lakes Area Sanitary District facility (facility) is located at 2201 Nevada Street Southwest, Alexandria, Minnesota 56308-9152, Douglas County.

### Existing facility

The existing facility has a continuous discharge (SD 001) to Lake Winona (Class 2B, 3, 4A, 4B, 5, 6 water). The facility is a Class A facility.

The facility is designed to treat:

- an average wet weather (AWW) flow of 4.7 million gallons per day (mgd);
- five-day carbonaceous biochemical oxygen demand (CBOD<sub>5</sub>) of 6,900 pounds per day (lb/day);
- total suspended solids (TSS) of 6,000 lb/day;
- total phosphorus (TP) of 210 lb/day; and
- total ammonia nitrogen of 470 lb/day.

The existing facility consists of a main lift station, force main, influent screening, screenings washing and compaction, vortex grit removal and grit washing, two primary settling tanks, three fine pore ceramic diffuser aeration tanks, three secondary clarifiers, cloth media tertiary filtration, chlorination tanks, dissolved air flotation thickening of waste activated sludge, four aerobic digesters, centrifuge dewatering, and outfall pipeline. There are no known bypass points for the wastewater collection/treatment system.

### Proposed facility

The proposed facility will consist of a new equalization basin and improvements to the main pump station; replacing influent screening, grit removal and the disinfection system; installation of membrane bioreactor and upgrades to solids treatment and dewatering. The proposed facility will be designed to treat 5.7 million gallons per day average wet weather flow, 10.9 mgd peak hourly wet weather flow, 9,900 pounds CBOD<sub>5</sub> average per day and 9,800 pounds suspended solids average per day.

Changes to the facility may result in an increase in pollutant loading to surface waters or other causes of degradation to surface waters. If a change to the facility will result in a net increase in pollutant loading or other causes of degradation that exceed the maximum loading authorized through conditions specified in the existing permit, the changes to the facility are subject to antidegradation requirements found in Minn. R. 7050.0250 to 7050.0335.

This Permit also complies with Minn. R. 7053.0275 regarding anti-backsliding.

Any point source discharger of sewage, industrial, or other wastes for which a National Pollutant Discharge Elimination System (NPDES) permit has been issued by the MPCA that contains effluent limits more stringent than those that would be established by Minn. R. 7053.0215 to 7053.0265 shall continue to meet the effluent limits established by the permit, unless the permittee establishes that less stringent effluent limits are allowable pursuant to federal law, under section 402(o) of the Clean Water Act, United States Code, title 33, section 1342.

## 2. Location map of permitted facility

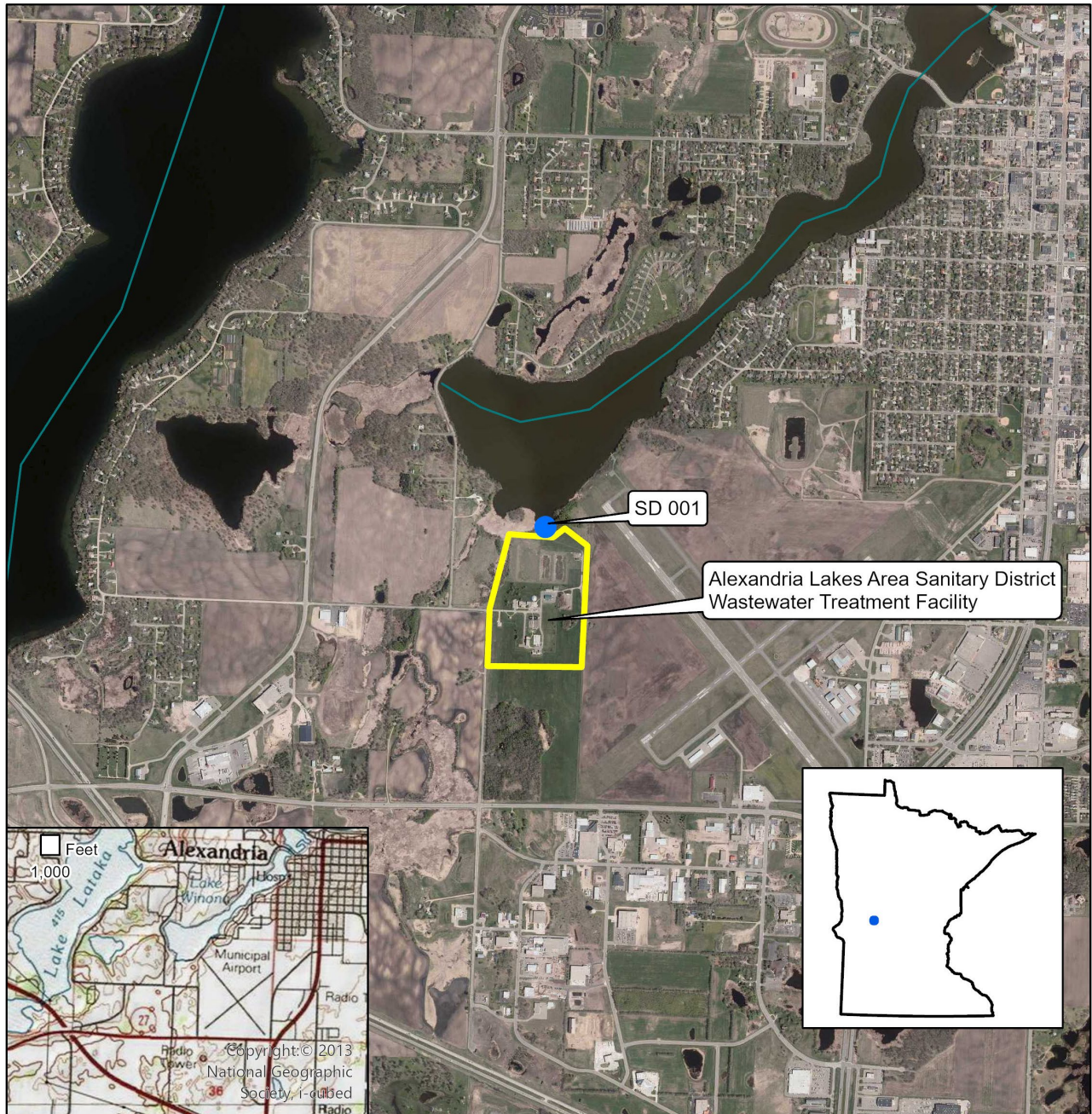
### Facility Location Map

MN0040738: Alexandria Lakes Area Sanitary District

Wastewater Treatment Facility

T128N, R38W, Section 25

Alexandria, Douglas County, Minnesota

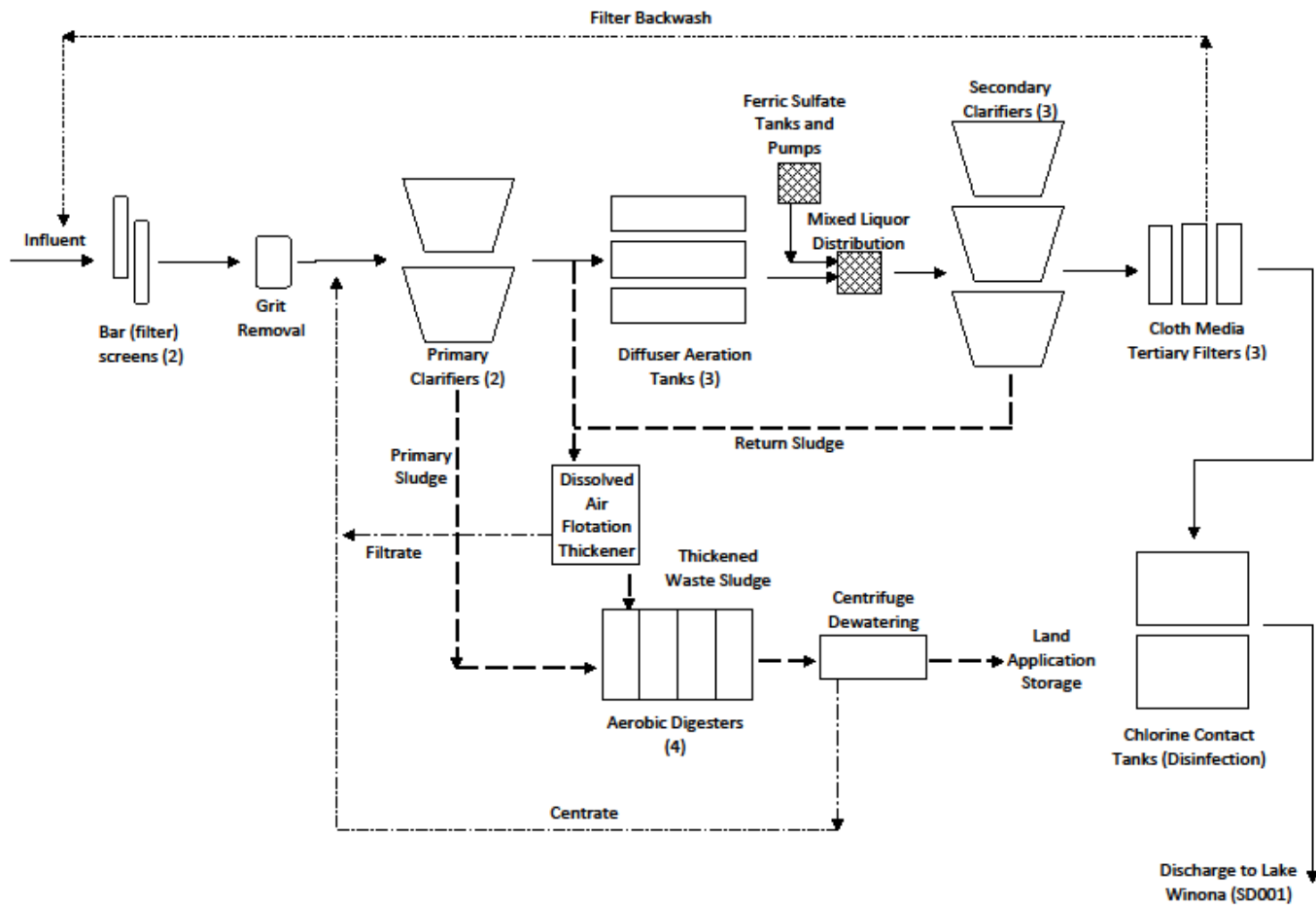


Map produced by: MPCA Staff, 3/13/2025  
Scale: 1:24,000

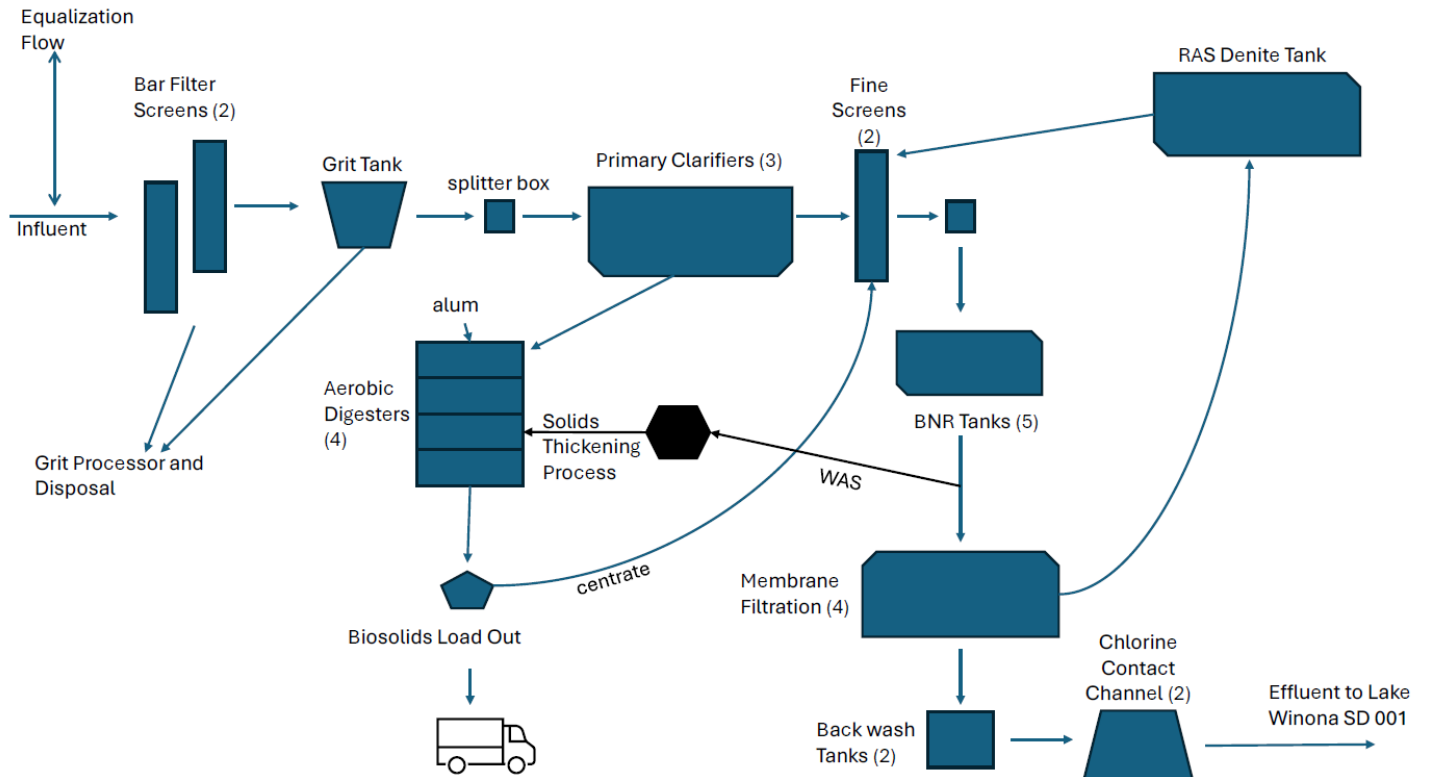
0 0.25 0.5 1 Miles

### 3. Flow diagram

Existing Flow Diagram:



Proposed Flow Diagram



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**4. Summary of stations and station locations**

<b>Station</b>	<b>Type of station</b>	<b>Local name</b>	<b>PLS location</b>
SD 001	Effluent To Surface Water	Surface Water Discharge	T128N, R38W, S25, NW Quarter
SW 001	Lake/Reservoir	Lake Winona - Northeast Site	T128N, R38W, S24
SW 002	Lake/Reservoir	Lake Winona - Southwest Site	T128N, R38W, S25
SW 003	Lake/Reservoir	Lake Agnes	T128N, R38W, S25
WS 001	Influent Waste	Influent Waste Stream	T128N, R38W, S25, NE Quarter of the SW Quarter

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5. Permit requirements

SD 001	Effluent To Surface Water	
<b>Surface Discharge: Class A Major Facility Effluent Requirements</b>		
	5.1.1	The Permittee shall submit a monthly DMR: Due by 21 days after the end of each calendar month following permit issuance. [Minn. R. 7001.0150, subp. 2(B)]
	5.1.2	<b>Sampling Location.</b> [Minn. R. 7001.0150, subp. 2(B)]
	5.1.3	Samples for Station SD 001 shall be collected from the outlet control structure prior to mixing with the receiving water. [Minn. R. 7001.0150, subp. 2(B)]
<b>Priority Pollutant Requirements</b>		
	5.2.4	<b>Monitoring Frequency.</b> [Minn. R. 7001]
	5.2.5	The Permittee shall monitor the effluent three times in the life of the permit for the following specified priority pollutants. Sampling events shall occur before the second, third, and fourth year following permit issuance and shall not be less than one year apart. [Minn. R. 7001]
	5.2.6	The Permittee shall submit the first priority pollutant monitoring report: Due 1095 calendar days before Permit Expiration Date. (By two years after permit issuance date). [Minn. R. 7001]
	5.2.7	The Permittee shall submit the second priority pollutant monitoring report: Due 730 calendar days before Permit Expiration Date. (By three years after permit issuance date). [Minn. R. 7001]
	5.2.8	The Permittee shall submit the third priority pollutant monitoring report: Due 365 calendar days before Permit Expiration Date. (By four years after permit issuance date). [Minn. R. 7001]
	5.2.9	<b>Sample Type.</b> [Minn. R. 7001]
	5.2.10	All samples should be collected using a 24-hour flow proportional composite; except for the 624 volatiles, cyanide, and 1631E mercury samples, which must be collected using the grab method. [Minn. R. 7050.0222]
	5.2.11	<b>Reporting Specifics.</b> [Minn. R. 7001]
	5.2.12	Reporting limits for all Priority Pollutant analyses shall be as close as analytically possible to the Class 2B chronic water quality standards. [Minn. R. 7050.0222]
	5.2.13	<b>Monitoring Specifics.</b> [Minn. R. 7001]
	5.2.14	<p>Monitoring shall be for the organic priority pollutants identified under the volatile, acid, base/neutral, and pesticide fractions using EPA methods 624, 625, and 608 (40 CFR pt. 136) as listed in Table II of 40 CFR pt. 122, Appendix D or any updates to those methods.</p> <p>The following priority pollutant total metals shall also be monitored using EPA approved methods found in Table IB of the current version of 40 CFR pt. 136: antimony, arsenic, beryllium, cadmium, chromium, copper, lead, nickel, selenium, silver, thallium, and zinc. In addition, the Permittee shall monitor for total cyanide, total phenolic compounds, and hardness (total as CaCO<sub>3</sub>) using methods approved in the most recent update of 40 CFR pt. 136.</p> <p>Total mercury shall be monitored by EPA method 1631E or the most recent update to this method, if not already required by the permit.</p> <p>Total cyanide shall be monitored to the free cyanide water quality standard.</p> <p>The chromium reporting limit shall meet the chromium +6 water quality standard. [Minn. R. 7001]</p>

		<b>Chronic Toxicity Requirements</b>
	5.3.15	<b>Definitions.</b> [Minn. R. 7001]
	5.3.16	"Chronic Whole Effluent Toxicity (WET) Test" is a static renewal test conducted on an exponentially diluted series of effluent. The purpose is to calculate appropriate biological effect endpoints (NOEC or IC25), specified in the referenced chronic manual. A statistical effect level less than the Receiving Water Concentration (RWC) constitutes a positive test for chronic toxicity. The RWC equals the 100 % effluent concentration or 1.0 TUC. [State Definitions]
	5.3.17	"Chronic toxic unit (TUC)" is the reciprocal of the effluent dilution that causes no unacceptable effect on the test organisms by the end of the chronic exposure period. For example, a TUC equals $[7Q_{10} \text{ flow (mgd)} + \text{effluent average dry weather flow (mgd)}] / [\text{effluent average dry weather flow (mgd)}]$ . [State Definitions]
	5.3.18	"Test" refers to an individual species. [State Definitions]
	5.3.19	"Test Battery" consists of WET testing of each species with each specified chronic test. For chronic WET testing, all test species includes fathead minnows and Ceriodaphnia dubia. [State Definitions]
	5.3.20	<b>General Requirements.</b> [Minn. R. 7001]
	5.3.21	This permit does not include a chronic WET limit; however, the facility has a WET monitoring requirement and is required to conduct chronic toxicity tests from outfall Station SD 001. Results of chronic toxicity tests will be evaluated against a monitoring threshold value of 1.0 TUC. [Minn. R. 7052, Minn. R. 7053]
	5.3.22	The Permittee shall submit annual chronic toxicity test battery results : Due 180 calendar days after Permit Issuance Date annually thereafter. [Minn. R. 7001]
	5.3.23	Additional WET tests are required for each year that exceeds the five-year permit cycle if the permit is not immediately reissued after permit expiration. The WET testing results are due on the same date as the original requirement, annually, until the permit is reissued. [Minn. R. 7001]
	5.3.24	Any test that exceeds 1.0 TUC shall be re-tested according to the Positive Toxicity Results requirements that follow to determine if toxicity is still present above 1.0 TUC (RWC < 100). [Minn. R. 7001]
	5.3.25	<b>Species and Procedural Requirements.</b> [Minn. R. 7001]
	5.3.26	Tests shall be conducted in accordance with procedures outlined in EPA-821-R-02-013 Short-term Methods for Measuring the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms - Fourth Edition (Chronic Manual) and any revisions to the Chronic Manual. [Minn. R. 7001]
	5.3.27	Any test that begins with an effluent sample that is equal to or exceeds a total ammonia concentration of 5.0 mg/L may use the carbon dioxide-controlled atmosphere technique to control pH drift. [Minn. R. 7001]
	5.3.28	Test organisms for each test battery shall include the fathead minnow (Pimephales promelas)-Method 1000.0 and Ceriodaphnia dubia-Method 1002.0 or any updates to these methods. [Minn. R. 7001]
	5.3.29	Static renewal chronic serial dilution tests of the effluent shall consist of a control, 6, 12, 25, 50, and 100% effluent. A 100% RWC may be substituted for the 100% effluent concentration or provided in addition to the above dilution series. [Minn. R. 7001]
	5.3.30	All effluent samples shall be flow proportioned 24-hour composite samples. Test solutions shall be renewed daily. Testing of the effluent shall begin within 36 hours of sample collection. Receiving water collected outside of the influence of discharge or synthetic water provided by the laboratory shall be used for dilution and controls. [Minn. R. 7001]
	5.3.31	Any other circumstances not addressed in the previous requirements or that require deviation from that specified in the previous requirements shall first be approved by the MPCA. [Minn. R. 7001]
	5.3.32	<b>Quality Control (QC) and Report Submittals.</b> [Minn. R. 7001]

5.3.33	Any test that does not meet quality control measures or results which the Permittee believes reflect an artifact of testing (i.e. poor control results) shall be repeated within two weeks of the notification from the lab regarding the test sample results. The chronic WET report and QC reports shall contain information consistent with the report preparation section of the Chronic Manual. The MPCA shall make the final determination regarding test validity. [Minn. R. 7001]
5.3.34	<b>Positive Toxicity Result for WET.</b> [Minn. R. 7001]
5.3.35	Should a test exceed 1.0 TUC for WET based on results from the most sensitive test species, the Permittee shall conduct two repeat test batteries on all species. The repeat tests are to be completed within 45 days after completion of the positive test. These tests are used to determine if toxicity exceeding 1.0 TUC remains present for any test species. [Minn. R. 7001]
5.3.36	<b>Repeat Testing Results.</b> [Minn. R. 7001]
5.3.37	<b>Negative Retests.</b> If no toxicity is present above 1.0 TUC for any test species in both retests, the Permittee shall return to the test frequency specified by the permit. [Minn. R. 7001]
5.3.38	<b>Positive Retests.</b> If toxicity is present above 1.0 TUC for any test species in either retests, the Permittee shall submit a plan for conducting a Toxicity Reduction Evaluation (TRE) for MPCA review and approval. [Minn. R. 7001]
5.3.39	<b>TRE Requirements.</b> [Minn. R. 7001]
5.3.40	<p>The TRE shall be submitted within 60 days after the toxicity discovery date and include a Facility Performance Review. Upon approval of the TRE, the Permittee shall implement the TRE or subsequent amendments in its entirety. Any violations of the TRE are violations of this permit.</p> <p>In addition, quarterly reports starting from the date of the TRE submittal are required. The quarterly reports shall include, but are not limited to, a complete description of all progress made towards the identification of the source(s) of toxicity, and the Permittee's plans for the removal of the toxicity. The TRE shall be consistent with the Chronic Manual or subsequent procedures approved by the MPCA in attempting to identify and remove the source of the toxicity. Routinely scheduled chronic toxicity test batteries required in this permit shall remain in effect throughout the permit cycle.</p> <p>The Permittee must submit a request to discontinue the TRE for MPCA review upon conclusion of the TRE requirements. If the MPCA discontinues the TRE, the permit may be modified to set conditions to be met by the Permittee based on the TRE results. If the MPCA continues the TRE, the Permittee shall continue to implement the approved conditions of the TRE. [Minn. R. 7001]</p>
5.3.41	Following successful completion of the TRE, the Permittee shall conduct semi-annual testing for the next five-year permit cycle. [Minn. R. 7001]
5.3.42	<b>WET Data and Test Acceptability Criteria (TAC) Submittal.</b> [Minn. R. 7001]
5.3.43	<p>All WET test data and TAC must be submitted to the MPCA by the dates required by this section of the permit using both the MPCA Ceriodaphnia dubia Chronic Toxicity Test Report and the MPCA Fathead Minnow Chronic Toxicity Test Report found on the MPCA website at <a href="https://www.pca.state.mn.us/business-with-us/step-4-create-swppp-choose-bmps">https://www.pca.state.mn.us/business-with-us/step-4-create-swppp-choose-bmps</a>.</p> <p>Data not submitted on the correct form(s), or submitted incomplete, will be returned to the Permittee and deemed incomplete until adequately submitted on the designated form(s). These are legal forms and must be signed and dated by the Permittee. [Minn. R. 7001]</p>
5.3.44	<b>Potential Permit Modifications.</b> [Minn. R. 7001]
5.3.45	The permit may be modified during a permit cycle to include additional toxicity testing and/or a WET limit based on the WET testing results. [Minn. R. 7001]
	<b>Facility Specific Requirements</b>

	5.4.50	The interim and final total phosphorus limits as well as the alternate and final total chloride limits have been assigned phases in the limits and monitoring table. These phases are assigned to trigger and turn off the effective start and end dates of the interim/alternate and final effluent limits for eDMR reporting purposes. Because there are multiple date possibilities associated with the total phosphorus limits, combined with the alternate and final chloride limit effective dates, multiple phases have been assigned. [Minn. R. 7001]
	5.4.51	The mass limits for BOD, carbonaceous 05 day (20 Deg C) and solids, total suspended (TSS) are based on the 1988 design flow of 2.987 million gallons per day (mgd). These limits are subject to antidegradation requirements found in Minn. R. 7050.0250 to Minn. R. 7050.0335. [Minn. R. 7001]
	5.4.52	The mass limits for Copper, Mercury, sulfate, solids, total dissolved (TDS), and Zinc are based on the design flow of 4.7 million gallons per day (mgd). These limits are subject to antidegradation requirements found in Minn. R. 7050.0250 to Minn. R. 7050.0335. [Minn. R. 7001]
<b>SW 001</b>	Lake/Reservoir	
		<b>Facility Specific Limit and Monitoring Requirements</b>
	5.5.1	The Permittee shall submit a monthly DMR: Due by 21 days after the end of each calendar month following permit issuance. [Minn. R. 7001.0150, Subp. 2(B)]
	5.5.2	<b>Sampling Location.</b> [Minn. R. 7001.0150, subp. 2(B)]
	5.5.3	Samples for Station SW 001 shall be collected at the Northeast Site of Lake Winona. [Minn. R. 7001.0150, subp. 2(B)]
<b>SW 002</b>	Lake/Reservoir	
		<b>Facility Specific Limit and Monitoring Requirements</b>
	5.6.1	The Permittee shall submit a monthly DMR: Due by 21 days after the end of each calendar month following permit issuance. [Minn. R. 7001.0150, Subp. 2(B)]
	5.6.2	<b>Sampling Location.</b> [Minn. R. 7001.0150, subp. 2(B)]
	5.6.3	Samples for Station SW 002 shall be collected at the Southwest Site of Lake Winona. [Minn. R. 7001.0150, subp. 2(B)]
<b>SW 003</b>	Lake/Reservoir	
		<b>Facility Specific Limit and Monitoring Requirements</b>
	5.7.1	The Permittee shall submit a monthly DMR: Due by 21 days after the end of each calendar month following permit issuance. [Minn. R. 7001.0150, Subp. 2(B)]
	5.7.2	<b>Sampling Location.</b> [Minn. R. 7001.0150, subp. 2(B)]
	5.7.3	Samples for Station SW 001 shall be collected from the center of Lake Agnes. [Minn. R. 7001.0150, subp. 2(B)]
<b>WS 001</b>	Influent Waste	
		<b>Waste Stream: Class A Major Facility Influent Requirements</b>
	5.8.1	The Permittee shall submit a monthly DMR: Due by 21 days after the end of each calendar month following permit issuance. [Minn. R. 7001.0150, subp. 2(B)]
	5.8.2	<b>Sampling Location.</b> [Minn. R. 7001.0150, subp. 2(B)]
	5.8.3	Samples for Station WS 001 shall be collected at a point representative of total influent flow to the system. [Minn. R. 7001.0150, subp. 2(B)]

MN0040738	Alexandria Lake Area Sanitary District	
		<b>Surface Discharge Station General Requirements</b>
	5.9.1	<b>Surface Discharge Prohibitions.</b> [Minn. R. 7001]
	5.9.2	Floating solids or visible foam shall not be discharged in other than trace amounts. [Minn. R. 7001]
	5.9.3	Oil or other substances shall not be discharged in amounts that create a visible color film. [Minn. R. 7001]
	5.9.4	The Permittee shall install and maintain outlet protection measures at the discharge stations to prevent erosion. [Minn. R. 7001]
	5.9.5	<b>Winter Sampling Conditions.</b> [Minn. R. 7001]
	5.9.6	The Permittee shall sample flows at the designated monitoring stations including when this requires removing ice to sample the water. If the station is completely frozen throughout a designated sampling month or if unsafe ice conditions exist, the Permittee shall check the "No Discharge/No Flow" box on the eDMR and note the ice conditions in the comments on the eDMR. [Minn. R. 7001]
	5.9.7	<b>Chlorine Addition Requirements.</b> [Minn. R. 7001]
	5.9.8	If chlorine is added for any purpose, the Permittee shall monitor the discharge for Total Residual Chlorine (TRC) once per day during chlorine usage. The Permittee shall report the monitoring data on the Sample Values and eDMR in months monitoring is required.  If chlorine is added for any purpose outside of the effective period listed in the Limits and Monitoring section of the permit, the data should be submitted as a comment on that month's eDMR. The discharge shall not exceed a 0.038 mg/L TRC limit. [Minn. R. 7001]
	5.9.9	<b>Sampling Collection and Reporting.</b> [Minn. R. 7001]
	5.9.10	The Permittee shall submit monitoring results in accordance with the Limits and Monitoring requirements for this station. If conditions are such that no sample can be acquired, the Permittee shall check "No Discharge/No Flow" on the eDMR and shall add a comment to the eDMR detailing why the sample was not collected. [Minn. R. 7001.0150, subp. 2(B)]
	5.9.11	Effluent monitoring for parameters with a frequency of once per quarter and an effective period of Mar, Jun, Sep, Dec can be sampled any time during that calendar quarter. The Permittee must report the monitoring results on the Sample Values in the month they conducted the sampling and on the eDMR at the end of the quarter (e.g. The Permittee shall report the sample for the first calendar quarter of Jan-Mar on the Sample Values in the month the sample is collected and on the March eDMR). [Minn. R. 7001]
	5.9.12	<b>Mercury Limits and Monitoring Requirements.</b> [Minn. R. 7001]
	5.9.13	The Permittee is required to sample for total suspended solids (mercury grab sample) at the same time that total mercury and dissolved mercury samples are taken. [Minn. R. 7001]
	5.9.14	Total and dissolved mercury samples shall be grab samples and shall be analyzed using the most recent revisions of EPA Methods 1631 and 1669.  The Permittee is authorized to use another mercury analytical method that has a reportable level of <0.5 ng/L which allows for low-level sample characterization as long as the method is approved by the EPA and certified by an MPCA accreditation body. [Minn. R. 7001]
	5.9.15	Effluent monitoring for mercury with a frequency of twice per month and an effective period of Jan, Mar, May, Jul, Sep, Nov are to be taken twice per month during the months of January, March, May, July, September, and November. [Minn. R. 7001]
	5.9.16	<b>Nitrogen Limits and Monitoring Requirements.</b> [Minn. R. 7001]
	5.9.17	"Total Nitrogen" with a sample type of "Calculation" is to be reported as the summation of the total Kjeldahl nitrogen and total nitrite plus nitrate nitrogen values. [Minn. R. 7001]

	5.9.18	<b>Nitrogen Reduction Strategy Optimization Incentive (Voluntary).</b> [Minn. R. 7001]
	5.9.19	<p>A 10 mg/L total nitrogen State Discharge Restriction (SDR) is being proposed for all major municipal wastewater treatment facilities, high concentration minor municipal wastewater treatment facilities, and high concentration industrial dischargers in a MPCA nitrate rulemaking effort. To encourage wastewater treatment facilities to start making achievable nitrogen reductions as soon as possible, the MPCA is proposing in the rulemaking to defer applicability of the SDR limit for one permit cycle for Permittees that have optimized their existing wastewater treatment operations and are able to meet a 15 mg/L total nitrogen limit based on a 12-Month Moving Average for at least 12 months prior to the adoption of a SDR.</p> <p>Note the following:</p> <p>A. The proposed SDR limit is applicable for all major municipal, high concentration minor municipal, and high concentration industrial dischargers. If the Permittee is not currently classified as a major facility but may be prior to SDR adoption, the Permittee may still have the opportunity to participate in this optimization incentive.</p> <p>B. This optimization incentive is dependent on successful rulemaking efforts. If the entire rulemaking or the optimization incentive-portion of the rulemaking are not successful, the SDR limit deferral will not be applicable.</p> <p>C. Once facilities have optimized to reduce their nitrogen concentrations, they must continue operating the facilities in accordance with the optimization efforts.</p> <p>Refer to the accompanying permit documents for additional information regarding the optimization incentive. [Minn. R. 7001]</p>
	5.9.20	<b>Phosphorus Limit Types and Calculations.</b> See the Limits and Monitoring section of this permit to determine which, if any, applies. [Minn. R. 7001]
	5.9.21	<p>"12-Month Moving Total" is a rolling total. For the first 11 months after this limit becomes effective, report the mass phosphorus discharged by calculating each month's kg/month, then adding each month's kg/month from the first month the new limit is effective through the 11<sup>th</sup> month after this limit became effective. This value should be reported on the eDMR in the 12-Month Moving Total field.</p> <p>If using the eDMR calculator tool, replace the calculated value with the value calculated above as the eDMR calculated value will not be correct until 12 months of data are collected following permit reissuance. Starting the 12<sup>th</sup> month after this limit became effective and thereafter, calculate each kg/month then add all of the monthly values during the last twelve months, starting with the monthly total for the month of the current reporting period. Calculate kg/month for each month by multiplying the total volume of effluent flow (MG) x the monthly average concentration x 3.785 conversion factor to get kg/month. Starting the 12<sup>th</sup> month after this limit became effective and thereafter, the eDMR calculator tool will provide the correct value for this limit. [Minn. R. 7001]</p>
		<b>Surface Water Station General Requirements</b>
	5.10.25	Surface water monitoring stations SW 001 and SW 002 will continue to monitor the northeast and southwest sites, respectively, on Lake Winona. Surface water monitoring station SW 003 will monitor Lake Agnes. Monitoring will be for total phosphorus, chlorophyll-a, sulfate, and transparency at a frequency of once per month in the months of May and October and twice per month for the months of June through September each year. [Minn. R. 7001]
	5.10.26	<b>Sampling Protocol.</b> [Minn. R. 7001]
	5.10.27	The Permittee shall submit monitoring results in accordance with the limits and monitoring requirements for this station. If conditions are such that no sample can be acquired, the Permittee shall report "No Flow" or "No Discharge" on Discharge Monitoring Report (DMR) and shall add a Comments attachment to the DMR detailing why the sample was not collected. [Minn. R. 7001.0150, Subp. 2(B)]

5.10.28	Samples shall be taken at mid-depth. The Permittee shall record the sample location and maintain it on site per the maintain records provision of this permit. The Permittee shall record the date, time, and results for each sample on the Sample Values as an eDMR attachment. [Minn. R. 7001]
5.10.29	All instruments used for field measurements shall be maintained and calibrated to ensure accuracy of measurements. [Minn. R. 7001]
5.10.30	Sample water shall be preserved according to lab instructions and delivered to a certified lab within the maximum holding times. [Minn. R. 7001]
5.10.31	<b>Winter Sampling Conditions.</b> [Minn. R. 7001]
5.10.32	The Permittee shall sample flows at the designated monitoring stations including when this requires removing ice to sample the water. If the station is completely frozen throughout a designated sampling month or if unsafe ice conditions exist, the Permittee shall check the "No Discharge" box on the eDMR and note the ice conditions in the comments on the eDMR. [Minn. R. 7001]
	<b>Waste Stream Station General Requirements</b>
5.11.36	The Permittee shall submit monitoring results in accordance with the limits and monitoring requirements for this station. If conditions are such that no sample can be acquired, the Permittee shall report "No Flow" or "No Discharge" on Discharge Monitoring Report (DMR) and shall add a Comments attachment to the DMR detailing why the sample was not collected. [Minn. R. 7001.0150, Subp 2(B)]
5.11.37	Influent monitoring for parameters with a frequency of once per quarter and an effective period of Mar, Jun, Sep, Dec can be sampled any time during that calendar quarter. The Permittee must report the monitoring results on the Sample Values in the month they conducted the monitoring and on the eDMR at the end of the quarter. (e.g. The Permittee shall report the sample for the first calendar quarter of Jan-Mar on the Sample Values in the month the sample is collected and on the March eDMR). [Minn. R. 7001]
5.11.38	<b>Nitrogen Limits and Monitoring Requirements.</b> [Minn. R. 7001]
5.11.39	"Total Nitrogen" with a sample type of "Calculation" is to be reported as the summation of the total Kjeldahl nitrogen and total nitrite plus nitrate nitrogen values. [Minn. R. 7001]
	<b>Chloride Variance</b>
5.12.43	<b>Total Chloride Water Quality Based Effluent Limit Variance General Requirements.</b> [Minn. R. 7001]

5.12.44	<p>In their permit issued November 15, 2020, the Permittee applied for and was granted an 8-year term variance from the chloride water quality standard in Minn. R. 7050, designed to protect the Class 2 beneficial use of the receiving water. The EPA authorizes States and Tribes to include variance provisions in their water quality standards (40 CFR 131.14). In accordance with Minn. R. 7000.7000, permitted facilities are authorized to apply for a variance from water quality standards.</p> <p>A variance is a temporary change in the applicable water quality standards. During the term of the variance, the Permittee is required to comply with the highest attainable condition (HAC) for the pollutant which the variance is granted [40 CFR 131.14(b)(ii)(A)(3)]. To ensure this is met, an Interim effluent limit is developed and becomes effective at permit issuance as outlined in the Interim Effluent Limits requirement below. In addition, the Permittee is required to complete chloride source investigation and minimization as well as evaluate the feasibility of water treatment (which must include the evaluation of lime softening) or other applicable treatment technologies in an effort to control sources of chloride.</p> <p>Upon expiration of the variance, the Permittee is required to comply with the final effluent limits outlined in the Final Effluent Limits requirement below.</p> <p>As applied for by the Permittee, the basis of the variance is "controls more stringent than those required by sections 301(b) and 306 of the Clean Water Act (CWA) would result in substantial and widespread economic and social impact" [Minn. R. 7050.0190, subp. 4(A)(6)]. The MPCA has determined that the Permittee has satisfied the conditions necessary to grant a variance and as a result supports the inclusion of the variance in the permit. [Minn. R. 7001, Minn. R. 7050.0190, subp. 4]</p>
5.12.45	<p>This variance is approved for an 8-year term that began on November 15, 2020. The variance expiration date is November 14, 2028. An explanation of the term is provided in the chloride preliminary determination on file with the MPCA. [Minn. R. 7001]</p>
5.12.46	<p><b>Explanation of Effluent Limits.</b> During the reasonable potential (RP) analysis, it was determined the Facility has RP to exceed water quality standards for chloride. When RP is indicated for a particular pollutant, the permit must contain a water quality based effluent limit (WQBEL) for that pollutant. [Minn. R. 7001]</p>
5.12.47	<p><b>Interim Effluent Limits.</b> As required by 40 CFR 131.14 and Minn. R. 7050.0190 the highest attainable condition (HAC) was reevaluated during the 5-year variance reevaluation period, and was decreased from 839 mg/L (daily maximum) to 805 mg/L (calendar month average). The Permittee is required to meet the interim effluent limit (identified as Phase 1, and 2 in the Limits and Monitoring) assigned to SD 001 and is effective upon permit issuance. The interim effluent limit was calculated and intended to result in a discharge of the HAC, throughout the variance term. [Minn. R. 7001]</p>
5.12.48	<p><b>Final Effluent Limits.</b> The Permittee is required to meet the final effluent limits for total chloride of 230 mg/L, calendar month average and 252 mg/L, daily maximum (identified as Phase 3 in the Limits and Monitoring) at variance expiration. The final effluent limits are sufficient to meet the underlying water quality standard. The Permittee shall use the MPCA's Streamlined Chloride Variance Action Tree and implement a Chloride Investigation and Minimization Plan (Plan) as described in the section below. The Permittee-specific action tree (template found at <a href="https://www.pca.state.mn.us/sites/default/files/wq-wwprm2-88.pdf">https://www.pca.state.mn.us/sites/default/files/wq-wwprm2-88.pdf</a>) is the Pollutant Management Plan and the Permittee will be completing the Plan below to sequence and define the specific activities. [Minn. R. 7001]</p>
5.12.49	<p><b>Permit Variance and Conditions Requirements.</b> [Minn. R. 7001]</p>
5.12.50	<p>The Permittee shall maintain compliance with the conditions of the variance as outlined in this permit and Minn. R. 7000.7000 and 7050.0190. The MPCA reserves the right to review and terminate the variance if the Permittee demonstrates noncompliance with any of the conditions of the variance. [Minn. R. 7001, Minn. R. 7050.0190, subp. 4]</p>

5.12.51	The MPCA may reopen and modify the permit based on MPCA triennial water quality standards revisions applicable to the chloride variance. [Minn. R. 7001]
5.12.52	<b>Chloride Investigation and Minimization Plan.</b> [Minn. R. 7001]
5.12.53	The Permittee shall submit a Chloride Investigation and Minimization Plan (variance): Due by 180 days after permit issuance. This Plan corresponds to the second phase of the Streamlined Chloride Variance Action Tree. The Permittee shall update the Plan and submit the updated Plan to the MPCA. [Minn. R. 7001]
5.12.54	<p>At a minimum, the Plan must include, but is not limited to:</p> <p>A. Acknowledgment that chloride influent and effluent concentrations have been reviewed using the most recent five years of monitoring data, and identification of trends and relationships between actions taken, if applicable.</p> <p>B. A summary of any chloride source reduction activities implemented and a schedule of chloride source reduction activities that will be completed to identify, evaluate, and complete chloride reduction, elimination, and prevention. These source reduction activities shall begin immediately unless the Plan is disapproved by the MPCA, and shall include, but are not limited to:</p> <p style="padding-left: 40px;">i. Identification and quantification of existing and potential sources of chloride concentrations and/or loading to the Facility. Investigate the following categories of sources, at a minimum:</p> <ol style="list-style-type: none"><li>1. Industrial;</li><li>2. Institutional;</li><li>3. Municipal;</li><li>4. Commercial; and</li><li>5. Residential</li></ol> <p>For each source of chloride identified, the Permittee shall propose a control strategy by working with the source to develop an implementation plan and schedule for reducing the chloride concentrations from that source. Any sources identified and control strategies developed shall be included in future progress reports and all progress reports must update the information required under the Plan.</p> <p style="padding-left: 40px;">ii. Reduction activities must include actions focused on residential sources, if applicable. This may include continued education and working with homeowners using methods shown to be effective on the impact of chloride from residential softeners, making contact with the local water softening businesses regarding opportunities for chloride reduction within the community, and options available for increasing softener salt efficiency, which may include water softener tune-ups or replacement; [Minn. R. 7050.0190, subp. 1(B)]</p>

5.12.55	<p><b>(Plan requirements continued)</b></p> <p>iii. Within three years of Plan development, the Permittee shall reduce nonpoint source discharges of chloride that the Permittee can control, such as road salt application and the use of de-icing products on the Permittee's property. One option is to utilize the MPCA's Smart Salting Assessment tool (<a href="https://smartsaltingtool.com">https://smartsaltingtool.com</a>). This web-based tool will help winter maintenance organizations assess operations, identify opportunities to reduce salt using proven best management practices (BMPs), and track progress. Along with this tool, there are Smart Salting training opportunities. The Permittee's staff may attend at least one of these trainings and submit documentation of completion to the MPCA. The preferred Permittee's staff to attend should be a staff member whom is considered a decision-maker in road maintenance. This will satisfy the requirement that a Permittee with a variance will implement cost-effective and reasonable BMPs for non-point source control;</p> <p>iv. The Permittee shall identify the appropriate quantifiable sampling and reporting methods necessary to determine if the chloride source reduction activities are resulting in a reduction, or if changes are needed. As an example, the Permittee could use qualitative field equipment to measure specific conductance in specific areas throughout the collection system where known sources are being targeted or utilize questionnaires to determine the age of home water softeners. The goal is to gather data that will show what actions have led to reductions and to target future activities. The Permittee shall use the data to summarize effectiveness, re-evaluate next year's schedule, and modify the Plan as needed. If the monitoring does not indicate progress, the Permittee shall identify the barriers, actions that can be taken to overcome them and supplemental actions that will be completed to ensure future progress.</p> <p>D. A summary of how the Permittee will evaluate centralized water treatment (which must include the evaluation of lime softening) or other applicable treatment technology options to reduce chloride concentrations, along with feasibility and associated costs. [Minn. R. 7050.190, subp. 1(B)]</p>
5.12.56	<p>Unless the Plan is disapproved by the MPCA, the Permittee must complete the activities in accordance with the schedule outlined in the Plan. Updates on completion of the activities and the resulting reductions of chloride shall be submitted with the annual progress reports, as well as interim actions (i.e. the number of water softeners adjusted). As more information is known through completion of the investigation and reduction work, the activities and schedule shall be updated in the annual progress reports throughout the term of the variance in sufficient detail for the MPCA to determine progress. [Minn. R. 7001]</p>
5.12.57	<p><b>Annual Progress Report.</b> [Minn. R. 7001]</p>
5.12.58	<p>The Permittee shall submit a chloride investigation and minimization annual report (variance): Due by January 31 of each calendar year following submittal of the Chloride Investigation and Minimization Plan. [Minn. R. 7001]</p>

5.12.59	<p>The annual progress reports shall be submitted to the MPCA WQ Submittal Center for review and approval following submittal of the Plan. The reports shall include, but are not limited to:</p> <p>A. All chloride influent and effluent monitoring results for the previous year and a summary of any chloride reductions made;</p> <p>B. A list of potential sources of chloride found and any implementation plans and source reduction schedules developed;</p> <p>C. An update on the completion of source reduction activities based on the associated metrics;</p> <p>D. An evaluation of reductions achieved or not achieved through activities. If not achieved, explain the barriers to achievement;</p> <p>E. All sampling and reporting results collected to determine if activities are resulting in a chloride reduction;</p> <p>F. Any updates to the Plan's activities and schedule; and</p> <p>G. The schedule of activities that the Permittee plans to complete within the next 12-month period, as well as the metrics and associated sampling and reporting to record reductions. [Minn. R. 7001]</p>
5.12.60	<p><b>Permit Variance Expiration.</b> [Minn. R. 7001]</p>
5.12.61	<p>This Variance shall expire November 14, 2028 and only applies to the existing facility design flow of 4.7 mgd. This Variance does not apply to the proposed facility with an AWW design flow of 5.7 mgd. Prior to variance expiration the Permittee shall choose to meet the final effluent limits at expiration or earlier as set forth in this permit or shall notify the MPCA as to how the Permittee plans to meet their limit through a new water quality variance or schedule of compliance. Notification shall take place in the form of a permit application for permit modification submitted to the MPCA one year before variance expiration. [Minn. R. 7001]</p>
5.12.62	<p>The Permittee shall submit an application for permit modification: Due 365 calendar days before 11/14/2028. The application shall include either a schedule of compliance for the chloride limit or an application for a new water quality variance. [Minn. R. 7001]</p>
	<p><b>Compliance Construction Schedule</b></p>
5.13.64	<p>Definitions. [Minn. R. 7001]</p>
5.13.65	<p>"Initiation of operation" means the date that MPCA determines all components of the wastewater treatment system are complete and functioning and the project begins operating for the purposes for which it was planned, designed, and built. [State Definitions]</p>
5.13.66	<p>"Completion of construction" means all the construction is complete except for minor weather-related components and conforms to the approved plans and specifications and change orders. [State Definitions]</p>
5.13.67	<p>"Notice to proceed" means a written notice given by the Permittee to the contractor that affixes the contract effective date and the date that the contractor begins performing the work specified in the contract documents. [State Definitions]</p>
5.13.68	<p><b>Background Information: Water Quality Based Effluent Limit (WQBEL) for Total Phosphorus.</b> [Minn. R. 7001]</p>

5.13.69	<p>The Permittee determined construction is needed as soon as possible as the Adaptive Lake Management Plan activities did not result in the attainment of water quality standards in Lake Winona.</p> <p>The final total phosphorus effluent limits of 0.157 mg/L as a calendar month average and 665 kg/yr limit as a 12-month moving total will become effective as soon as possible, but in any case no later than December 31, 2030.</p> <p>During the first compliance schedule term, the Adaptive Lake Management activities were completed but water quality standards in Lake Winona were not met. The Permittee shall either construct a new Facility or perform capital improvements to the existing Facility and the final total phosphorus effluent limits shall be met by no later than December 31, 2030. [Minn. R. 7001]</p>
5.13.70	<b>Construction Schedule.</b> [Minn. R. 7001]
5.13.71	The Permittee submitted an intended use plan request on May 6, 2024. Plans and Specifications were submitted to the MPCA for the selected alternative on March 14, 2025 which was due March 30 2027. [Minn. R. 7001]
5.13.72	The Permittee shall submit a construction progress report: Due annually, by the 31st of December. [Minn. R. 7001]
5.13.73	Submit Notice to Proceed. The Permittee shall submit a copy of the Notice to Proceed to the MPCA within 14 days of its execution. [Minn. R. 7001]
5.13.74	The Permittee shall begin construction of the chosen alternative as soon as possible but no later than March 30, 2028. Construction shall proceed for the selected alternative per the MPCA approved Facility Plan and schedule. Written notification shall be submitted to the MPCA within 14 days after the start of construction. The Permittee shall submit a notification of the date construction began: Due 03/30/2028. [Minn. R. 7001]
5.13.75	The Permittee shall initiate operation of the upgraded Facility as soon as possible but no later than March 30, 2030. Written notification shall be submitted to the MPCA within 14 days of initiation of operation. The Permittee shall initiate operation: Due 03/30/2030. [Minn. R. 7001]
5.13.76	The Permittee shall attain compliance with the final total phosphorus effluent limits of 0.157 mg/L calendar month average and 665 kg/yr, 12-month moving total as soon as possible but no later than December 31, 2030 (phase 2). Because the Permittee shall complete construction and initiate operation of the upgraded Facility by March 30, 2030, the Permittee should be complying with the effluent limits sooner than December 31, 2030. The Permittee shall attain final total phosphorus effluent limits 90 days after the initiation of operation date. The Permittee shall attain compliance with final effluent limits: Due 90 calendar days after initiate operation. This shall activate phase 2 of the permit. [Minn. R. 7001]
	<b>Mercury Minimization Plan</b>
5.14.95	The Permittee is required to complete and submit a Mercury Pollutant Minimization Plan (MMP) to the MPCA as detailed in this section. If the Permittee has previously submitted a MMP, it shall update its MMP and submit the updated MMP to the MPCA. The purpose of the MMP is to evaluate collection and treatment systems to determine possible sources of mercury as well as potential mercury reduction options. Guidelines for developing a MMP are detailed in this section. [Minn. R. 7001]
5.14.96	The specific mercury monitoring requirements are detailed in the limits and monitoring section of this permit. Information gained through the MMP process can be used to reduce mercury concentrations. As part of its mercury control strategy, the Permittee should consider selecting activities based on the potential of those activities to reduce mercury loadings to the wastewater treatment facility. [Minn. R. 7001]
5.14.97	The Permittee shall submit a mercury pollutant minimization plan: Due by 180 days after permit issuance. [Minn. R. 7001]

5.14.98	<p>At a minimum, the MMP shall include the following:</p> <ul style="list-style-type: none"> <li>a. A summary of mercury influent and effluent concentrations and biosolids monitoring data using the most recent five years of monitoring data, if available.</li> <li>b. Identification of existing and potential sources of mercury concentrations and/or loading to the facility. As appropriate for your facility, you should consider residential, institutional, municipal, and commercial sources (such as dental clinics, hospitals, medical clinics, nursing homes, schools, laundries, and industries with potential for mercury contributions). You should also consider other influent mercury sources, such as stormwater inputs, ground water (inflow &amp; infiltration) inputs, lift station components, and waste streams or sewer tributaries to the wastewater treatment facility.</li> <li>c. An evaluation of past and present WWTF operations to determine those operating procedures that maximize mercury removal.</li> <li>d. A summary of any mercury reduction activities implemented during the last five years.</li> <li>e. A plan to implement mercury management and reduction measures during the next five years. [Minn. R. 7001]</li> </ul>
	<b>Mechanical System</b>
5.15.99	<b>Bypass Structures.</b> [Minn. R. 7001]
5.15.100	All structures capable of bypassing the treatment system shall be manually controlled and kept locked at all times. [Minn. R. 7001.0030]
5.15.101	<b>Sanitary Sewer Extension Permit.</b> [Minn. R. 7001]
5.15.102	The Permittee may be required to obtain a sanitary sewer extension permit from the MPCA for any addition, extension, or replacement to the sanitary sewer. If a sanitary sewer extension permit is required, construction may not begin until plans and specifications have been submitted and a written permit is granted except as allowed in Minn. Stat. 115.07, subd. 3b. [Minn. R. 7001.0020]
5.15.103	<b>Operator Certification.</b> [Minn. R. 7001]
5.15.104	The Permittee shall provide a Class A state certified operator who maintains direct responsibility of the operation, maintenance, and testing functions required to ensure compliance with the terms and conditions of this permit. [Minn. R. 9400]
5.15.105	The Permittee shall provide the appropriate number of operators with a Type IV certification to be responsible for the land application of biosolids or semisolids from commercial or industrial operations. [Minn. R. 7048]
5.15.106	<p>If the Permittee chooses to meet operator certification requirements through a contractual agreement, the Permittee shall provide a copy of the contract to the MPCA, WQ Submittals Center. The contract shall include:</p> <ul style="list-style-type: none"> <li>A. The certified operator's name, certificate number, company name (if appropriate), and the period covered by the contract and provisions for renewal;</li> <li>B. The duties and responsibilities of the certified operator;</li> <li>C. The duties and responsibilities of the Permittee; and</li> <li>D. Provisions for notifying the MPCA 30 days in advance of termination if the contract is terminated prior to the expiration date. [Minn. R. 9400]</li> </ul>
5.15.107	The Permittee shall notify the MPCA within 30 days of a change in operator certification or contract status. [Minn. R. 9400]
	<b>Pretreatment: Nondelegated Requirements</b>
5.16.111	<b>Definitions.</b> [Minn. R. 7049]

5.16.112	"Individual Control Mechanism" means a document, such as an agreement or permit, which imposes limitations or requirements on an individual industrial user of the publicly owned treatment works (POTW). [Minn. R. 7049]
5.16.113	<p>"Significant Industrial User" (SIU) means any industrial user that:</p> <ul style="list-style-type: none"> <li>A. Is subject to Categorical Pretreatment Standards, as defined in Minn. R. 7049.0120, subp. 5;</li> <li>B. Discharges 25,000 gallons per day or more of process wastewater, excluding sanitary, noncontact cooling, or boiler blowdown wastewater, to the POTW;</li> <li>C. Contributes a process wastewater containing five percent or more of the flow or load of any pollutant of concern to the POTW; or</li> <li>D. Is designated as significant by the Permittee or the MPCA on the basis that the industrial user has a reasonable potential to adversely impact the POTW's operation or violate any pretreatment standard or requirement. [Minn. R. 7049]</li> </ul>
5.16.114	<b>Permittee Responsibility to Control Users.</b> [Minn. R. 7049]
5.16.115	It is the Permittee's responsibility to regulate the discharge from users of its POTW. The Permittee shall prevent any pass through of pollutants or any inhibition or disruption of the Permittee's POTW, its treatment processes, or its sludge processes or disposal that contribute to the violation of the conditions of this permit or any federal or state law or regulation limiting the release of pollutants from the POTW. [Minn. R. 7049]
5.16.116	<p>The Permittee shall prohibit the discharge of the following to its POTW:</p> <ul style="list-style-type: none"> <li>A. Pollutants that create a fire or explosion hazard, including any discharge with a flash point less than 60 degrees C (140 degrees F);</li> <li>B. Pollutants that will cause corrosive structural damage to the POTW, including any waste stream with a pH of less than 5.0;</li> <li>C. Solid or viscous pollutants which would obstruct flow;</li> <li>D. Any pollutant, including oxygen-demanding pollutants such as biochemical oxygen demand, released at a flow rate or pollutant concentration that will cause interference or pass-through;</li> <li>E. Heat that would inhibit biological activity, including any discharge that would cause the temperature of the waste stream at the POTW treatment plant headwork's to exceed 40 degrees C (104 degrees F);</li> <li>F. Petroleum oil, nonbiodegradable cutting oil, or products of mineral oil origin in amounts that would cause interference or pass-through; and</li> <li>G. Pollutants that produce toxic gases, vapors, or fumes that may endanger the health or safety of workers. [Minn. R. 7049]</li> </ul>
5.16.117	The Permittee shall prohibit new discharges of non-contact cooling waters unless there is no cost effective alternative. Existing discharges of non-contact cooling water to the Permittee's POTW shall be eliminated, where elimination is cost effective, or where an infiltration/inflow analysis and sewer system evaluation survey indicates the need for such removal. [Minn. R. 7049]
5.16.118	If the Permittee accepts trucked-in wastes, the Permittee shall evaluate the trucked-in wastes prior to acceptance in the same manner as it monitors sewered wastes. The Permittee shall accept trucked-in wastes only at specifically designated points. [Minn. R. 7049]
5.16.119	<p>Pollutant of concern means a pollutant that is or may be discharged by an industrial user that is or reasonably should be of concern on the basis that it may cause the Permittee to violate any permit limits on the release of pollutants. The following pollutants shall be evaluated to determine if they should be pollutants of concern:</p> <ul style="list-style-type: none"> <li>A. Pollutants limited in this permit;</li> <li>B. Pollutants for which monitoring is required in this permit;</li> <li>C. Pollutants that are likely to cause inhibition of the Permittee's POTW;</li> <li>D. Pollutants which may interfere with sludge disposal; and</li> <li>E. Pollutants for which the Permittee's POTW has limited capacity. [Minn. R. 7049]</li> </ul>

	5.16.120	<b>Control of Significant Industrial Users.</b> [Minn. R. 7049]
	5.16.121	The Permittee shall impose pretreatment requirements on SIUs to ensure compliance with all applicable effluent limitations and other requirements set forth in this permit or any federal or state law or regulation limiting the release of pollutants from the POTW. These requirements shall be applied to SIUs by means of an individual control mechanism. [Minn. R. 7049]
	5.16.122	The Permittee shall not knowingly enter into an individual control mechanism with any user that would allow the user to contribute an amount or strength of wastewater that would cause violation of any limitation or requirement in the permit, or any applicable federal, state, or local law or regulation. [Minn. R. 7049]
	5.16.123	<b>Monitoring of Significant Industrial Users.</b> [Minn. R. 7049]
	5.16.124	The Permittee shall obtain specific information from SIUs on the quality and quantity of the SIU's discharges to the Permittee's POTW. Except where specifically requested by the Permittee and approved by the MPCA, this information shall be obtained by means of representative monitoring conducted by the Permittee or by the SIU under requirements imposed by the Permittee in the SIU's individual control mechanism. Monitoring performed to comply with this requirement shall include all pollutants for which the SIU is significant and shall be done at a frequency commensurate with the significance of the SIU. [Minn. R. 7049]
	5.16.125	<b>Reporting and Notifications.</b> [Minn. R. 7049]
	5.16.126	The Permittee shall submit a pretreatment annual report: Due by 31 days after the end of each calendar year following permit issuance if a SIU discharges to the POTW during a given calendar year. [Minn. R. 7049]
	5.16.127	The Permittee shall submit the Pretreatment Annual Report found on the MPCA's website at <a href="https://www.pca.state.mn.us/business-with-us/wastewater-pretreatment">https://www.pca.state.mn.us/business-with-us/wastewater-pretreatment</a> or shall provide equivalent information. [Minn. R. 7049]
	5.16.128	The Permittee shall submit the Pretreatment Annual Report to the MPCA, WQ Submittals Center. [Minn. R. 7049]
	5.16.129	<p>The Permittee shall notify the MPCA in writing of any of the following:</p> <ul style="list-style-type: none"> <li>A. Any SIU of the Permittee's POTW which has not been previously disclosed to the MPCA;</li> <li>B. Anticipated or actual changes in the volume or quality of discharge by an industrial user that could result in the industrial user becoming an SIU as defined in this section; or</li> <li>C. Anticipated or actual changes in the volume or quality of discharges by a SIU that would require changes to the SIU's required local limits.</li> </ul> <p>This notification shall be submitted within 30 days of identifying the industrial user as a SIU. Where changes are proposed, they shall be submitted prior to changes being made. [Minn. R. 7049]</p>
	5.16.130	<p>Upon notifying the MPCA of a SIU or change in a SIU discharge as required above, the Permittee shall submit the following information using the forms found on the MPCA's website at <a href="https://www.pca.state.mn.us/water/wastewater-pretreatment">https://www.pca.state.mn.us/water/wastewater-pretreatment</a> or in a comparable format:</p> <ul style="list-style-type: none"> <li>A. The identity of the SIU and a description of the SIU's operation and process;</li> <li>B. A characterization of the SIU's discharge;</li> <li>C. The required local limits that will be imposed on the SIU;</li> <li>D. A technical justification of the required local limits; and</li> <li>E. A plan for monitoring the SIU which is consistent with monitoring requirements in this section. [Minn. R. 7049]</li> </ul>

5.16.131	In addition, the Permittee shall, upon request, submit the following to the MPCA for approval:  A. Additional information on the SIU, its processes, and discharge; B. A copy of the individual control mechanism used to control the SIU; C. The Permittee's legal authority to be used for regulating the SIU; and D. The Permittee's procedures for enforcing the requirements imposed on the SIU. [Minn. R. 7049]
5.16.132	The Permittee shall notify the MPCA of any of its industrial users that may be subject to National Categorical Pretreatment Standards. [Minn. R. 7049]
5.16.133	This permit may be modified in accordance with Minn. R. ch. 7001 to require development of a pretreatment program approvable under the Federal General Pretreatment Regulation (40 CFR 403). [Minn. R. 7049]
	<b>Biosolids: Land Application</b>
5.17.134	<b>Authorization.</b> [Minn. R. 7041]
5.17.135	This permit authorizes the Permittee to store and land apply domestic wastewater treatment biosolids in accordance with the provisions in this section and Minn. R. ch. 7041. [Minn. R. 7041]
5.17.136	Permittees who prepare bulk biosolids shall obtain approval of the sites on which bulk biosolids are applied before they are applied unless they are Exceptional Quality Biosolids. Site application procedures are set forth in Minn. R. 7041.0800. [Minn. R. 7041.0600, Minn. R. 7041.0800]
5.17.137	<b>Compliance Responsibility.</b> [Minn. R. 7041]
5.17.138	The Permittee is responsible for ensuring that the applicable requirements in this section and Minn. R. ch. 7041 are met when biosolids are prepared, distributed, and/or applied to the land. [Minn. R. 7041]
5.17.139	<b>Notification Requirements.</b> [Minn. R. 7041]
5.17.140	The Permittee shall provide information needed to comply with the biosolids requirements of Minn. R. ch. 7041 to others who prepare or use the biosolids. [Minn. R. 7041]
5.17.141	<b>Pollutant Limits.</b> [Minn. R. 7041]

5.17.142	<p>Biosolids which are applied to the land shall not exceed the ceiling concentrations in Table 1 and shall not be applied so that the cumulative amounts of pollutant in Table 2 are exceeded.</p> <p>Table 1 Ceiling Concentrations (dry weight basis)</p> <p>Pollutant in units mg/kg                  Arsenic 75                  Cadmium 85                  Copper 4300                  Lead 840                  Mercury 57                  Molybdenum 75                  Nickel 420                  Selenium 100                  Zinc 7500</p> <p>Table 2 Cumulative Loading Limits</p> <p>Pollutant in units lbs/acre                  Arsenic 37                  Cadmium 35                  Copper 1339                  Lead 268                  Mercury 15                  Molybdenum*                  Nickel 375                  Selenium 89                  Zinc 2500</p> <p>*The cumulative limit for molybdenum has not been established at the time of permit issuance. [Minn. R. 7041.1100]</p>
5.17.143	<b>Pathogen and Vector Attraction Reduction.</b> [Minn. R. 7041]
5.17.144	Biosolids shall be processed, treated, or be incorporated or injected into the soil to meet one of the vector attraction reduction requirements in Minn. R. 7041.1400. [Minn. R. 7041.1400]
5.17.145	Biosolids shall be processed or treated by one of the alternatives in Minn. R. 7041.1300 to meet the Class A or Class B standards for the reduction of pathogens. When Class B biosolids are applied to the land, the site restrictions in Minn. R. 7041.1300 shall also be met. [Minn. R. 7041.1300]

5.17.146	<p>The minimum duration between application and harvest, grazing, or public access to areas where Class B biosolids have been applied to the land is as follows:</p> <p>A. 14 months for food crops whose harvested parts may touch the soil/biosolids mixture (such as melons, squash, tomatoes, etc.), when biosolids are surface applied, incorporated, or injected;</p> <p>B. 20 months or 38 months depending on the application method for food crops whose harvested parts grow in the soil (such as potatoes, carrots, onions, etc). The 20-month time period is required when biosolids are surface applied or surface applied and incorporated after they have been on the soil surface for at least four months. The 38-month time period is required when the biosolids are injected or surface applied and incorporated within four months of application;</p> <p>C. 30 days for feed crops, other food crops (such as field corn, sweet corn, etc.), hay, or fiber crops when biosolids are surface applied, incorporated, or injected;</p> <p>D. 30 days for grazing of animals when biosolids are surface applied, incorporated, or injected; and</p> <p>E. One year where there is a high potential for public contact with the site (such as a reclamation site located in populated areas, a construction site located in a city, turf farms, plant nurseries, etc.) and 30 days where there is low potential for public contact (such as agricultural land, forest, a reclamation site located in an unpopulated area, etc.) when biosolids are surface applied, incorporated, or injected. [Minn. R. 7041]</p>
5.17.147	<b>Management Practices.</b> [Minn. R. 7041]
5.17.148	The management practices for the land application of biosolids are described in detail in Minn. R. 7041.1200 and shall be followed unless specified otherwise in a site approval letter or a permit issued by the MPCA. [Minn. R. 7041]
5.17.149	<p>Overall management requirements:</p> <p>A. Biosolids shall not be applied to the land if it is likely to adversely affect a threatened or endangered species listed under Section 4 of the Endangered Species Act or its designated critical habitat;</p> <p>B. Biosolids shall not be applied to flooded, frozen, or snow covered ground so that the biosolids enter wetlands or other waters of the state;</p> <p>C. Biosolids shall be applied at an agronomic rate unless specified otherwise by the MPCA in a permit; and</p> <p>D. Biosolids shall not be applied within 33 feet of a wetland or waters of the state unless specified otherwise by the MPCA in a permit. [Minn. R. 7041]</p>
5.17.150	<b>Monitoring Requirements.</b> [Minn. R. 7041]
5.17.151	Representative samples of biosolids applied to the land shall be analyzed by methods specified in Minn. R. 7041.3200 for the following parameters: arsenic, cadmium, copper, lead, mercury, molybdenum, nickel, selenium, zinc, Kjeldahl nitrogen, ammonia nitrogen, total solids, volatile solids, phosphorus, potassium, and pH. [Minn. R. 7041.3200]

5.17.152	<p>At a minimum, biosolids shall be monitored at the frequencies specified in Table 3 for the parameters listed above, and any pathogen or vector attraction reduction requirements in Minn. R. 7041.1300 and 7041.1400 if used to determine compliance with those parts.</p> <p>Table 3 Minimum Sampling Frequencies</p> <p>Biosolids Applied* Biosolids Applied* Frequency          (metric tons/365-day period) (tons/365-day period) (times/365-day period)</p> <p>&gt;0 but &lt;290 &gt;0 but &lt;320 1          &gt;=290 but &lt;1,500 &gt;=320 but &lt;1,650 4          &gt;=1,500 but &lt;15,000 &gt;=1,650 but &lt;16,500 6          &gt;=15,000 &gt;=16,500 12</p> <p>*Either the amount of bulk biosolids applied to the land or the amount of biosolids received by a person who prepares biosolids that are sold or given away in a bag or other container for application to the land (dry weight basis). [Minn. R. 7041.1300]</p>
5.17.153	<p>Representative samples of biosolids that are transferred to storage units and are stored for more than two years shall be analyzed by methods specified in Minn. R. 7041.3200 for each cropping year they are stored for the following parameters: arsenic, cadmium, copper, lead, molybdenum, nickel, selenium, and zinc.</p> <p>Mercury is specifically NOT included in the stored biosolids analysis because of the short holding time (28 days) required between sampling and analysis. [Minn. R. 7041.1300, Minn. R. 7041.3200]</p>
5.17.154	<p>Increased sampling frequencies are specified for the parameters listed in Table 4. Sampling at a frequency at twice the minimum frequencies in Table 3 is required if concentrations listed in Table 4 are exceeded (based on the average of all analyses made during the previous cropping year).</p> <p>Table 4 Increased Frequency of Sampling</p> <p>Parameter in units mg/kg (dry weight basis)</p> <p>Arsenic 38          Cadmium 43          Copper 2150          Lead 420          Mercury 28          Molybdenum 38          Nickel 210          Selenium 50          Zinc 3750. [Minn. R. 7041]</p>
5.17.155	<p><b>Records.</b> [Minn. R. 7041]</p>
5.17.156	<p>The Permittee shall keep records of the information necessary to show compliance with pollutant concentrations and loadings, pathogen reduction requirements, vector attraction reduction requirements, and management practices as specified in Minn. R. 7041.1600, as applicable to the quality of biosolids produced. [Minn. R. 7041.1600]</p>
5.17.157	<p><b>Reporting Requirements.</b> [Minn. R. 7041]</p>
5.17.158	<p>The Permittee shall submit a biosolids annual report: Due annually, by the 31st of December. [Minn. R. 7041.1700]</p>

5.17.159	The Permittee shall submit the Biosolids Annual Report found on the MPCA's website at <a href="https://www.pca.state.mn.us/business-with-us/wastewater-operator-resources">https://www.pca.state.mn.us/business-with-us/wastewater-operator-resources</a> or shall provide equivalent information in another MPCA approved format. The report shall include the requirements in Minn. R. 7041.1700. [Minn. R. 7041.1700]
5.17.160	The Biosolids Annual Report shall be submitted by December 31 of each year for biosolids storage and/or transfer activities occurring during the cropping year previous to December 31.  Cropping year means a year beginning on September 1 of the year prior to the growing season and ending August 31 the year the crop is harvested. For example, the 2019 cropping year began September 1, 2018 and ended August 31, 2019. [Minn. R. 7041]
5.17.161	The Biosolids Annual Report shall indicate whether or not biosolids were transferred and/or stored. If biosolids were transferred, the report shall describe:  A. How much was transferred; B. Where it was transferred to; C. The name of the facility that accepted the transfer; and D. The contact person at that facility. [Minn. R. 7041]
5.17.162	For biosolids that are stored for more than two years, the Biosolids Annual Report shall also include the analytical data from the representative sample of the biosolids generated during the cropping year. [Minn. R. 7041]
5.17.163	The Permittee shall submit the Biosolids Annual Report to the MPCA, WQ Submittals Center. [Minn. R. 7041]
5.17.164	The Permittee shall notify the MPCA in writing when 90 percent or more of any of the cumulative pollutant loading rates listed for any land application sites has been reached for a site. [Minn. R. 7041]
	<b>Total Residual Oxidants</b>
5.18.165	<b>General Requirements.</b> [Minn. R. 7001]
5.18.166	Total Residual Chlorine (TRC) shall be analyzed immediately. This means within 15 minutes or less of sample collection. [40 CFR 136.6]
5.18.167	A Reporting Limit (RL) shall be established for this parameter. This must be based on the analysis of a standard at or below the RL. [Minn. R. 7001]
5.18.168	A RL of 0.04 mg/L is considered in compliance with the 0.038 mg/L limit. [Minn. R. 7001]
5.18.169	The RL shall be verified against a known standard at least monthly during the monitoring period. For successful verification, the standard needs to be recovered at +/- 40% of the actual value. [Minn. R. 7001]
5.18.170	Monitoring results below the RL should be reported as "<" the RL. If the RL is 0.01 mg/L, based on the analysis of a standard at or below that level, and a parameter is not detected at a value of 0.01 mg/L or greater, the concentration shall be reported as "<0.01 mg/L." The symbol "<" means "less than." [Minn. R. 7001]
5.18.171	<b>Compliance with a Daily Maximum Limit.</b> [Minn. R. 7001]
5.18.172	Compliance with a Daily Maximum limit for Total Residual Chlorine (TRC) concentration limits can be evaluated using one of the two following methods. [State Definitions]
5.18.173	Single Sample Value - A single sample taken in a 24-hour period with a value of 0.038 mg/L or less is considered in compliance; or. [Minn. R. 7001]

5.18.174	<p>Multiple Sample Value - If the single value sample is greater than 0.038 mg/L, an average can be calculated using two to twelve samples analyzed in a 24-hour period. To calculate using multiple samples:</p> <p>A. The second sample shall be taken two hours after the initial sample; and</p> <p>B. Subsequent samples shall be taken at one-hour intervals not to exceed twelve samples in a 24-hour period</p> <p>The average value of the multiple samples must be 0.038 mg/L or less to be considered in compliance. Values below the RL for TRC are assumed to be zero for averaging purposes only. [Minn. R. 7001]</p>
	<p><b>Total Facility Requirements (NPDES/SDS)</b></p>
5.19.178	<p><b>Definitions.</b> Refer to the Permit User's Manual found on the MPCA's website at <a href="https://www.pca.state.mn.us/sites/default/files/wq-wwtp7-09.pdf">https://www.pca.state.mn.us/sites/default/files/wq-wwtp7-09.pdf</a> for standard definitions. [Minn. R. 7001]</p>
5.19.179	<p><b>Incorporation by Reference.</b> This permit incorporates the following applicable federal and state laws applicable to the Permittee and enforceable parts of this permit: 40 CFR pts. 122.41, 122.42, 136, 403 and 503; Minn. R. chs. 7001, 7041, 7045, 7050, 7052, 7053, 7060, and 7080; and Minn. Stat. chs. 115 and 116. [Minn. R. 7001]</p>
5.19.180	<p><b>Permittee Responsibility.</b> The Permittee shall perform the actions or conduct the activity authorized by this permit in compliance with the conditions of the permit and, if required, in accordance with the plans and specifications approved by the MPCA. [Minn. R. 7001.0150, subp. 3(E)]</p>
5.19.181	<p><b>Toxic Discharges Prohibited.</b> Whether or not this permit includes effluent limitations for toxic pollutants, the Permittee shall not discharge a toxic pollutant except according to 40 CFR pts. 400 to 460 and Minn. R. chs. 7050, 7052, 7053 and any other applicable MPCA rules. [Minn. R. 7001.1090, subp. 1(A)]</p>
5.19.182	<p><b>Nuisance Conditions Prohibited.</b> The Permittee's discharge shall not cause any nuisance conditions including, but not limited to: floating solids, scum and visible oil film, excessive suspended solids, material discoloration, obnoxious odors, gas ebullition, deleterious sludge deposits, undesirable slimes or fungus growths, aquatic habitat degradation, excessive growths of aquatic plants, acutely toxic conditions to aquatic life, or other adverse impact on the receiving water. [Minn. R. 7050.0210, subp. 2]</p>
5.19.183	<p><b>Property Rights.</b> This permit does not convey a property right or an exclusive privilege. [Minn. R. 7001.0150, subp. 3(C)]</p>
5.19.184	<p><b>Liability Exemption.</b> In issuing this permit, the State and the MPCA assume no responsibility for damage to persons, property, or the environment caused by the activities of the Permittee in the conduct of its actions, including those activities authorized, directed, or undertaken under this permit. To the extent the State and the MPCA may be liable for the activities of its employees, that liability is explicitly limited to that provided in the Tort Claims Act. [Minn. R. 7001.0150, subp. 3(O)]</p>
5.19.185	<p>The MPCA's issuance of this permit does not obligate the MPCA to enforce local laws, rules, or plans beyond what Minnesota statutes authorize. [Minn. R. 7001.0150, subp. 3(D)]</p>
5.19.186	<p><b>Liabilities.</b> The MPCA's issuance of this permit does not release the Permittee from any liability, penalty, or duty imposed by Minnesota or federal statutes or rules or local ordinances, except the obligation to obtain the permit. [Minn. R. 7001.0150, subp. 3(A)]</p>
5.19.187	<p>The issuance of this permit does not prevent the future adoption by the MPCA of pollution control rules, standards, or orders more stringent than those now in existence and does not prevent the enforcement of these rules, standards, or orders against the Permittee. [Minn. R. 7001.0150, subp. 3(B)]</p>

5.19.188	<b>Severability.</b> The provisions of this permit are severable and, if any provisions of this permit or the application of any provision of this permit to any circumstance are held invalid, the application of such provision to other circumstances and the remainder of this permit shall not be affected thereby. [Minn. R. 7001]
5.19.189	<b>Compliance with Other Rules and Statutes.</b> The Permittee shall comply with all applicable air quality, solid waste, and hazardous waste statutes and rules in the operation and maintenance of the facility. [Minn. R. 7001]
5.19.190	<b>Inspection and Entry.</b> When authorized by Minn. Stat. ch. 115.04, 115B.17, subd. 4, and 116.091, and upon presentation of proper credentials, the Permittee shall allow the MPCA, or an authorized employee or agent of the MPCA, to enter at reasonable times upon the property of the Permittee to examine and copy books, papers, records, or memoranda pertaining to the construction, modification, or operation of the facility covered by the permit or pertaining to the activity covered by the permit; and to conduct surveys and investigations, including sampling or monitoring, pertaining to the construction, modification, or operation of the facility covered by the permit or pertaining to the activity covered by the permit. [Minn. R. 7001.0150, subp. 3(I)]
5.19.191	<b>Control Users.</b> The Permittee shall regulate the users of its facility to prevent the introduction of pollutants or materials that may result in the inhibition or disruption of the conveyance system, treatment facility or processes, or disposal system that would contribute to the violation of the conditions of this permit or any federal, state, or local law or regulation. [Minn. R. 7001.0150, subp. 3(F)]
5.19.192	<b>Sampling.</b> [Minn. R. 7001]
5.19.193	<b>Representative Sampling.</b> The Permittee shall conduct samples and measurements required by this permit as specified in this permit and shall be representative of the discharge or monitored activity. [Minn. R. 7001.0150, subp. 2(B)]
5.19.194	<b>Additional Sampling.</b> If the Permittee monitors more frequently than required, they shall report the results and the frequency of monitoring on their eDMR for that reporting period. [Minn. R. 7001.1090, subp. 1(E)]
5.19.195	<b>Certified/Accredited Laboratory.</b> A laboratory accredited by the Minnesota Department of Health [Minn. R. 4740.2010 through Minn. R. 4740.2120] and/or certified by the MPCA [Minn. R. 7001.4310 through Minn. R. 7001.4390] shall conduct analyses required by this permit, unless approved in writing by the MPCA. A certified/accredited laboratory does not need to complete analyses of dissolved oxygen, pH, temperature, specific conductance, and total residual oxidants (chlorine, bromine). Those analyses shall comply with 40 CFR pt. 136. Dissolved oxygen, pH, and total residual oxidants must be performed on-site. Follow the manufacturer's specifications for equipment maintenance and use. [Minn. R. 4740.2010-4740.2120, Minn. R. 7001.4310-7001.4390]
5.19.196	<b>Sample Preservation and Procedure.</b> Sample preservation and test procedures for the analysis of pollutants shall conform to 40 CFR pt. 136 and Minn. R. 7041.3200. [Minn. R. 7001.0150, subp. 2(B), Minn. R. 7041.3200]
5.19.197	<b>Equipment Calibration.</b> The Permittee shall check and/or calibrate flow meters, pumps, flumes, lift stations, or other flow monitoring equipment used for purposes of determining compliance (within plus or minus ten percent of the true flow values) with permit requirements at least twice annually. [Minn. R. 7001.0150, subp. 2(B & C)]

5.19.198	<p><b>Maintain Records.</b> The Permittee shall keep the records required by this permit for at least three years, including any calculations, original recordings from automatic monitoring instruments, and laboratory sheets. The Permittee shall extend these record retention periods upon request of the MPCA. The Permittee shall maintain records for each sample and measurement. The records shall include the following information:</p> <ul style="list-style-type: none"><li>A. The exact place, date, and time of the sample or measurement;</li><li>B. The date and time of analysis;</li><li>C. The name of the person who performed the sample collection, measurement, analysis, or calculation;</li><li>D. The analytical techniques, procedures, and methods used; and</li><li>E. The results of the analysis. [Minn. R. 7001.0150, subp. 2(C)]</li></ul>
5.19.199	<p><b>Completing Reports.</b> The Permittee shall submit the results of the required sampling and monitoring activities on the forms provided, specified, or approved by the MPCA. The Permittee shall record the information in the specified areas on those forms and in the units specified.</p> <p>Required forms may include a Sample Values Form. If required, the Permittee shall record individual values for each sample and measurement on the Sample Values Form provided by the MPCA. The Permittee shall submit Sample Values Form with the appropriate eDMRs. The Permittee may design and use their own Sample Values Form; however, the Permittee shall not use their form until the MPCA reviews and approves the form.</p> <p>Note: The Permittee shall also record required summary information on their eDMR. Permittee submitted summary information contained only on the Sample Values Form does not comply with reporting requirements. [Minn. R. 7001.0150, subp. 2(B), Minn. R. 7001.1090, subp. 1(D)]</p>
5.19.200	<p><b>Submitting Reports.</b> The Permittee shall submit eDMRs, Sample Values Forms, and other supplemental attachment forms via MPCA e-Services after the MPCA approves their authorization request.</p> <p>The Permittee shall electronically submit eDMRs, Sample Values Forms, and other supplemental attachment forms by the 21st day of the month following the sampling period or otherwise as specified in this permit. The Permittee shall complete eDMR submittal on or before 11:59 p.m. of the 21st day of the month following the sampling period or as otherwise specified in this permit. The Permittee shall submit an eDMR for each required station even if no discharge occurred during the reporting period.</p> <p>The Permittee shall submit other reports required by this permit electronically. The Permittee shall submit reports by the date specified in this permit. The Permittee shall submit on or before 11:59 p.m. on the date specified in this permit.</p> <p>Electronically: wq.submittals.mPCA@state.mn.us Include Water quality submittals form: <a href="http://www.pca.state.mn.us/sites/default/files/wq-wwprm7-71.docx">www.pca.state.mn.us/sites/default/files/wq-wwprm7-71.docx</a>. [Minn. R. 7001.0150, subp. 2(B), Minn. R. 7001.0150, subp. 3(H)]</p>
5.19.201	<p><b>Incomplete or Incorrect Reports.</b> The Permittee shall immediately submit an electronically amended report or eDMR to the MPCA upon discovery by the Permittee or notification by the MPCA that it has submitted an incomplete or incorrect report or eDMR. The amended report or eDMR shall contain the missing or corrected data along with a comment on the eDMR explaining the circumstances of the incomplete or incorrect report. If it is impossible to amend the report or eDMR electronically, the Permittee shall immediately notify the MPCA and the MPCA will provide direction for the amendment submittals. [Minn. R. 7001.0150, subp. 3(G)]</p>

5.19.202	<p><b>Required Signatures.</b> The Permittee or the duly authorized representative of the Permittee shall sign all eDMRs, forms, reports, and other documents submitted to the MPCA per Minn. R. 7001.0150, subp. 2(D). The person or persons who sign the eDMRs, forms, reports, or other documents shall certify that he or she understands and complies with the certification requirements of Minn. R. chs. 7001.0070 and 7001.0540, including the penalties for submitting false information. A registered professional engineer shall certify technical documents, such as design drawings and specifications, and engineering studies submitted as part of a permit application or by permit conditions. [Minn. R. 7001.0540]</p>
5.19.203	<p><b>Reporting Limit (RL).</b> The Permittee shall report monitoring results below the RL of a particular instrument as "&lt;" the value of the RL. For example, if an instrument has a RL of 0.1 mg/L and a parameter is not detected at a value of 0.1 mg/L or greater, the Permittee shall report the concentration as "&lt; 0.1 mg/L." The Permittee shall not use "non-detected," "undetected," "below detection limit," or "zero" when reporting results. The MPCA considers these terms as permit reporting violations.</p> <p>Where sample values are less than the RL and the permit requires reporting of an average, the Permittee shall calculate the average as follows:</p> <p>A. If some values are less than (&lt;) the RL, substitute zero for all non-detectable values to use in the average calculation;</p> <p>B. If all values are less than (&lt;) the RL, calculate the average and report as &lt; the RL average concentration; and</p> <p>C. To calculate a mass loading with a less than (&lt;) the RL concentration, use the RL value in the calculation and then add the "&lt;" to the product of the concentration and the volume. [Minn. R. 7001.0150, subp. 2(B)]</p>
5.19.204	<p><b>Records.</b> The Permittee shall, when requested by the MPCA, submit within a reasonable time the information and reports that are relevant to the control of pollution regarding the construction, modification, or operation of the facility covered by the permit or regarding the conduct of the activity covered by the permit. [Minn. R. 7001.0150, subp. 3(H)]</p>
5.19.205	<p><b>Confidential Information.</b> Except for data determined to be confidential according to Minn. Stat. ch. 116.075, subd. 2, all reports required by this permit are available for public inspection. The MPCA does not consider effluent data confidential. To request the MPCA maintain data as confidential, the Permittee shall follow Minn. R. 7000.1300. [Minn. R. 7000.1300]</p>
5.19.206	<p><b>Noncompliance and Enforcement.</b> [Minn. R. 7001]</p>
5.19.207	<p><b>Subject to Enforcement Action and Penalties.</b> Noncompliance with a term or condition of this permit subjects the Permittee to penalties provided by federal and state law set forth in section 309 of the Clean Water Act; United States Code, title 33, section 1319, as amended; and in Minn. Stat. ch. 115.071 and 116.072, including monetary penalties, imprisonment, or both. [Minn. R. 7001.1090, subp. 1(B)]</p>
5.19.208	<p><b>Criminal Activity.</b> The Permittee shall not knowingly make a false statement, representation, or certification in a record or other document submitted to the MPCA. A person who falsifies a report or document submitted to the MPCA, or tampers with, or knowingly renders inaccurate a monitoring device or method that requires maintenance under this permit is subject to criminal and civil penalties provided by federal and state law. [Minn. R. 7001.0150, subp. 3(G), Minn. R. 7001.1090, subp. 1(G &amp; H), Minn. Stat. ch. 609.671, subd. 1]</p>
5.19.209	<p><b>Noncompliance Defense.</b> It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [40 CFR 122.41(c)]</p>

5.19.210	<p><b>Effluent Violations.</b> If sampling by the Permittee indicates a violation of any discharge limitation specified in this permit, the Permittee shall immediately make every effort to verify the violation by collecting additional samples, if appropriate, investigate the cause of the violation, and take action to prevent future violations.</p> <p>If the Permittee discovers that noncompliance with a condition of the permit occurred and that the noncompliance could endanger human health, public drinking water supplies, or the environment, the Permittee shall within 24 hours of the discovery of the noncompliance orally notify the Commissioner and submit a written description of the noncompliance within five days of the discovery.</p> <p>If the Permittee discovers other noncompliance that does not explicitly endanger human health, public drinking water supplies, or the environment, the Permittee shall report the description of noncompliance within 30 days of the discovery. If no eDMR is required within 30 days, the Permittee shall submit a written report including the description of noncompliance within 30 days of the discovery of the noncompliance. This description shall include the following information:</p> <ul style="list-style-type: none"><li>A. A description of the event including volume, duration, monitoring results, and receiving waters;</li><li>B. The cause of the event;</li><li>C. The steps taken to reduce, eliminate, and prevent reoccurrence of the event;</li><li>D. The exact dates and times of the event; and</li><li>E. Steps taken to reduce any adverse impact resulting from the event. [Minn. R. 7001.0150, subp. 3(K)]</li></ul>
5.19.211	<p><b>Upset Defense.</b> In the event of temporary noncompliance with applicable effluent limitation(s) resulting from an upset at the Permittee's facility due to factors beyond the control of the Permittee, the Permittee has an affirmative defense to an enforcement action brought by the MPCA as a result of the noncompliance if the Permittee demonstrates by a preponderance of competent evidence:</p> <ul style="list-style-type: none"><li>A. The specific cause of the upset;</li><li>B. That the upset was unintentional;</li><li>C. That the upset resulted from factors beyond the reasonable control of the Permittee and did not result from operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventative maintenance, or increases in production which are beyond the design capability of the treatment facilities;</li><li>D. That at the time of the upset the facility was being properly operated;</li><li>E. That the Permittee properly notified the Commissioner of the upset in accordance with Minn. R. 7001.1090, subp. 1(I); and</li><li>F. That the Permittee implemented the remedial measures required by Minn. R. 7001.0150, subp. 3(J). [Minn. R. 7001.1090]</li></ul>
5.19.212	<p><b>Release.</b> [Minn. R. 7001]</p>
5.19.213	<p><b>Unauthorized Releases of Wastewater Prohibited.</b> This permit prohibits overflows, discharges, spills, or other releases of wastewater or materials to the environment, whether intentional or not, except for discharges from outfalls specifically authorized by this permit. The MPCA will consider the Permittee's compliance with permit requirements, frequency of release, quantity, type, location, and other relevant factors when determining appropriate action. [40 CFR 122.41, Minn. Stat. ch. 115.061]</p>

5.19.214	<p><b>Discovery of a Release.</b> Upon discovery of a release, the Permittee shall:</p> <ul style="list-style-type: none"><li>A. Take all reasonable steps to immediately end the release;</li><li>B. Notify the Minnesota Department of Public Safety Duty Officer at 800-422-0798 or 651-649-5451 (metro area) immediately upon discovery of the release. The Permittee may contact the MPCA during business hours at 800-657-3864 or 651-296-6300 (metro area); and</li><li>C. Recover as rapidly and as thoroughly as possible all substances and materials released or immediately take other action as may be reasonably possible to minimize or abate pollution to waters of the state or potential impacts to human health caused thereby. If the Permittee cannot immediately or completely recover the released materials or substances, the Permittee shall contact the MPCA. If directed by the MPCA, the Permittee shall consult with other local, state, or federal agencies (such as the Minnesota Department of Natural Resources and/or the Wetland Conservation Act authority) for implementation of additional clean up or remediation activities in wetland or other sensitive areas. [Minn. R. 7001.1090]</li></ul>
5.19.215	<p><b>Sampling of a Release.</b> Upon discovery of a release, the Permittee shall:</p> <ul style="list-style-type: none"><li>A. Collect representative samples of the release. The Permittee shall sample the release for permitted effluent parameters and other parameters of concern immediately following discovery of the release. The Permittee may contact the MPCA during business hours to discuss the sampling parameters and protocol. In addition, the Permittee shall collect fecal coliform bacteria samples where the Permittee determines that the release contains or may contain sewage. If the Permittee cannot immediately stop the release, the Permittee shall consult with the MPCA regarding additional sampling requirements. The Permittee shall collect samples at least, but not limited to, two times per week for as long as the release continues; and</li><li>B. Submit the sampling results on the Release Report located on the MPCA's website at <a href="https://www.pca.state.mn.us/business-with-us/discharge-monitoring-reports">https://www.pca.state.mn.us/business-with-us/discharge-monitoring-reports</a>.</li></ul> <p>The Permittee shall submit the Release Report to the MPCA with the next eDMR or within 30 days, whichever is sooner. [Minn. R. 7001.1090]</p>
5.19.216	<p><b>Bypass.</b> [Minn. R. 7001]</p>
5.19.217	<p><b>Anticipated Bypass.</b> The Permittee may allow any bypass to occur that does not cause effluent limitation exceedances, but only if the bypass is for essential maintenance to assure efficient operation of the facility. The Permittee shall submit prior notice to the MPCA at least ten days before the date of the bypass, if possible. The notice of the need for an anticipated bypass shall include the following information:</p> <ul style="list-style-type: none"><li>A. The proposed date and estimated duration of the bypass;</li><li>B. The alternatives to bypassing; and</li><li>C. A proposal for effluent sampling during the bypass. Any bypass wastewater shall enter waters of the state from outfalls specifically authorized by this permit. Therefore, the Permittee shall collect samples at the frequency and location identified in this permit or two times per week for as long as the bypass continues, whichever is more frequent. [40 CFR 122.41(m)(2 &amp; 3), Minn. R. 7001.1090, subp. 1(J)]</li></ul>

5.19.218	<p>This permit prohibits all other bypasses. The MPCA may take enforcement action against the Permittee for a bypass, unless the specific conditions described in Minn. R. 7001.1090 subp. 1(K) and 40 CFR 122.41(m)(4)(i) are met.</p> <p>In the event of an unanticipated bypass, the Permittee shall:</p> <ul style="list-style-type: none"><li>A. Take all reasonable steps to immediately end the bypass;</li><li>B. Notify the Minnesota Department of Public Safety Duty Officer at 800-422-0798 or 651-649-5451 (metro area) immediately upon commencement of the bypass. The Permittee may contact the MPCA during business hours at 800-657-3864 or 651-296-6300 (metro area);</li><li>C. Immediately take action as may be reasonably possible to minimize or abate pollution to waters of the state or potential impacts to human health caused thereby. If directed by the MPCA, the Permittee shall consult with other local, state, or federal agencies for implementation of abatement, clean up, or remediation activities; and</li><li>D. Only allow bypass wastewater as specified in this section to enter waters of the state from outfalls specifically authorized by this permit. The Permittee shall collect samples at the frequency and location identified in this permit or two times per week for as long as the bypass continues, whichever is more frequent. The Permittee shall also follow the reporting requirements for effluent violations as specified in this permit. [40 CFR 122.41(m)(4)(j), Minn. R. 7001.1090, subp. 1(K), Minn. Stat. ch. 115.061]</li></ul>
5.19.219	<p><b>Notification of the Public.</b> Following immediate notification to the Minnesota Department of Public Safety Duty Officer and the MPCA of any discharge event that could endanger human health, public drinking water supplies, or the environment, or a Release or Bypass, as described above, the Permittee shall promptly notify the public and any drinking water facility of the discharge.</p> <p>Notice to the public and to any drinking water facility must be made using the most efficient communications system available to the facility owner such as in person, telephone call, radio, social media, webpage, or another expedited form. In addition, signage must be posted at all impacted public use areas within the same jurisdiction or notification must be provided to the entity that has jurisdiction over any impacted public use areas. A notice under this requirement must include the date and time of the discharge, a description of the material released, a warning of the potential public health risk, and the Permittee's contact information. [Minn. Stat. ch. 115.061]</p>
5.19.220	<p><b>Operation and Maintenance.</b> [Minn. R. 7001]</p>
5.19.221	<p>The Permittee shall at all times properly operate and maintain the facilities and systems of treatment and control, and the appurtenances related to them which are installed or used by the Permittee to achieve compliance with the conditions of the permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. The Permittee shall install and maintain appropriate backup or auxiliary facilities if they are necessary to achieve compliance with the conditions of the permit and, for all permits other than hazardous waste facility permits, if these backup or auxiliary facilities are technically and economically feasible. [Minn. R. 7001.0150, subp. 3(F)]</p>
5.19.222	<p>In the event of a reduction or loss of effective treatment of wastewater at the facility, the Permittee shall control production or curtail discharges to the extent necessary to maintain compliance with the terms and conditions of this permit. The Permittee shall continue this control or curtailment until they restore facility treatment processes or until the Permittee provides an alternative method of treatment. [Minn. R. 7001.1090, subp. 1(C)]</p>
5.19.223	<p><b>Solids Management.</b> The Permittee shall properly store, transport, and manage biosolids, septage, sediments, residual solids, filter backwash, screenings, oil, grease, and other substances so that pollutants do not enter surface waters or groundwaters of the state. The Permittee shall manage solids in accordance with local, state, and federal requirements. [40 CFR 503, Minn. R. 7041]</p>

5.19.224	<p><b>Scheduled Maintenance.</b> The Permittee shall schedule maintenance of the treatment works during non-critical water quality periods to prevent water quality degradation, except where the facility requires emergency maintenance to prevent a condition that would be detrimental to water quality or human health. [Minn. R. 7001.0150, subp. 2(B), Minn. R. 7001.0150, subp. 3(F)]</p>
5.19.225	<p><b>Control Tests.</b> The Permittee shall conduct in-plant control tests at a frequency adequate to ensure compliance with the conditions of this permit. [Minn. R. 7001.0150, subp. 2(B), Minn. R. 7001.0150, subp. 3(F)]</p>
5.19.226	<p><b>Changes to the Facility or Permit.</b> [Minn. R. 7001]</p>
5.19.227	<p><b>Permit Modifications.</b> Except as provided under Minn. Stat. ch. 115.07, subd. 1 and 3, no person required by statute or rule to obtain a permit may construct, install, modify, or operate the facility to be permitted, nor shall a person commence an activity for which a permit is required by statute or rule until the MPCA issues a written permit for the facility or activity.</p> <p>Permittees that propose to make changes to the facility or discharge that requires permit modification shall follow Minn. R. 7001.0190. If the Permittee cannot determine whether the proposed changes require a permit modification, the Permittee shall contact the MPCA prior to any action. The MPCA recommends that Permittees submit the application for permit modification to the MPCA at least 180 days prior to the planned change. [Minn. R. 7001.0030]</p>
5.19.228	<p>This permit does not require plans, specifications, and MPCA approval when maintenance dictates the need for installation of new equipment, provided the equipment is the same design size and has the same design intent. For instance, Permittees can replace a broken pipe, lift station pump, aerator, or blower with the same design-sized equipment without MPCA approval.</p> <p>If this permit does not expressly authorize the Permittee proposed construction, the MPCA may require a permit modification. If the proposed construction project requires an Environmental Assessment Worksheet under Minn. R. 4410, no construction shall begin until the MPCA issues a negative declaration and the Permittee receives or implements all approvals. [Minn. R. 7001.0030]</p>
5.19.229	<p><b>Report Changes.</b> The Permittee shall give advance notice as soon as possible to the MPCA of any substantial changes in operational procedures, activities that may alter the nature or frequency of the discharge, and/or material factors that may affect compliance with the conditions of this permit. [Minn. R. 7001.0150, subp. 3(M)]</p>

5.19.230	<p><b>Chemical Additives.</b> The Permittee shall receive prior written approval from the MPCA before increasing the use of a chemical additive authorized by this permit, or using a chemical additive not authorized by this permit, in quantities or concentrations that have the potential to change the characteristics, nature, and/or quality of the discharge.</p> <p>The Permittee shall request approval for an increase or new use of a chemical additive at least 60 days, or as soon as possible, before the proposed increase or new use. The Permittee shall include at least the following information for the proposed additive as instructed in the chemical additive approvals section on the MPCA's website at <a href="https://www.pca.state.mn.us/business-with-us/wastewater-permit-additional-guidance-and-information">https://www.pca.state.mn.us/business-with-us/wastewater-permit-additional-guidance-and-information</a>:</p> <p>A. The process for which the additive will be used;                  B. Safety Data Sheet (SDS) which shall include aquatic toxicity, human health, and environmental fate information for the proposed additive. The aquatic toxicity information shall include at minimum the results of: a) a 48-hour LC50 or EC50 acute study for a North American freshwater planktonic crustacean (either Ceriodaphnia or Daphnia sp.) and b) a 96-hour LC50 acute study for rainbow trout, bluegill, or fathead minnow or another North American freshwater aquatic species other than a planktonic crustacean;                  C. A complete product use and instruction label;                  D. The commercial and chemical names and Chemical Abstract Survey (CAS) number for all ingredients in the additive (If the SDS does not include information on chemical composition, including percentages for each ingredient totaling to 100%, the Permittee shall contact the supplier to have this information provided); and                  E. The proposed method of application, application frequency, concentration, and daily average and maximum rates of use.</p> <p>Upon review of the information submitted regarding the proposed chemical additive, the MPCA may require additional information be submitted for consideration. This permit may be modified to restrict the use or discharge of a chemical additive and include additional influent and effluent monitoring requirements. Approval for the use of an additive shall not justify the exceedance of any effluent limitation nor shall it be used as a defense against pollutant levels in the discharge causing or contributing to the violation of a water quality standard. [Minn. R. 7001.0170]</p>
5.19.231	<p><b>MPCA Initiated Permit Modification, Suspension, or Revocation.</b> The MPCA may modify or revoke and reissue this permit pursuant to Minn. R. 7001.0170. The MPCA may revoke without reissuance of this permit pursuant to Minn. R. 7001.0180. [Minn. R. 7001.0170, Minn. R. 7001.0180]</p>
5.19.232	<p><b>Total Maximum Daily Load (TMDL) Impacts.</b> The MPCA may require facilities that discharge to an impaired surface water, watershed, or drainage basin to comply with additional permits or permit requirements. These requirements can include additional restriction or relaxation of limits and monitoring as authorized by the CWA 303(d)(4)(A) and 40 CFR ch. 122.44(l)(2)(i), necessary to ensure consistency with the assumptions and requirements of any applicable EPA approved wasteload allocations resulting from TMDL studies. [40 CFR 122.44(l)(2)(i)]</p>
5.19.233	<p><b>Permit Transfer.</b> This permit is not transferable to any person without the express written approval of the MPCA after compliance with the requirements of Minn. R. 7001.0190. A person who receives permit transference shall comply with the conditions of this permit. [Minn. R. 7001.0150, subp. 3(N)]</p>

5.19.234	<p><b>Facility Closure.</b> The Permittee is responsible for closure and post-closure care of the facility. The Permittee shall notify the MPCA of a significant reduction or cessation of the activities described in this permit at least 180 days before the reduction or cessation. The MPCA may require the Permittee to provide a Facility Closure Plan to the MPCA for approval.</p> <p>The MPCA may require a permit modification or reissuance for facility closure that could result in a potential long-term water quality concern, such as the ongoing discharge of wastewater to surface or groundwater.</p> <p>The MPCA may require the Permittee to establish and maintain financial assurance to ensure performance of certain obligations under this permit, including closure, post-closure care, and remedial action at the facility. If the MPCA requires financial assurance, the MPCA shall approve the amount and type of financial assurance, and proposed modifications to previously MPCA-approved financial assurance. [Minn. Stat. ch. 116.07, subd. 4]</p>
5.19.235	<p><b>Permit Reissuance.</b> If the Permittee desires to continue permit coverage beyond the date of permit expiration, the Permittee shall submit an application for permit reissuance: Due by 180 days prior to permit expiration. [Minn. R. 7001.0040]</p>
5.19.236	<p>If the Permittee does not intend to continue the activities authorized by this permit after the expiration date of this permit, the Permittee shall notify the MPCA in writing at least 180 days before permit expiration. If the Permittee has submitted a timely application for permit reissuance, the Permittee may continue to conduct the activities authorized by this permit, in compliance with the requirements of this permit, until the MPCA takes final action on the application, unless the MPCA determines any of the following:</p> <ul style="list-style-type: none"><li>A. The Permittee is not in substantial compliance with the requirements of this permit, or with a stipulation agreement or compliance schedule designed to bring the Permittee into compliance with this permit;</li><li>B. The MPCA, as a result of an action or failure to act by the Permittee, has been unable to take final action on the application on or before the expiration date of the permit; or</li><li>C. The Permittee has submitted an application with major deficiencies or has failed to properly supplement the application in a timely manner after being informed of deficiencies. [Minn. R. 7001.0040, Minn. R. 7001.0160]</li></ul>

6. Submittal action summary

<b>SD 001</b>	<b>Effluent To Surface Water</b>	
		<b>Surface Discharge: Class A Major Facility Effluent Requirements</b>
	6.1.1	The Permittee shall submit a monthly DMR: Due by 21 days after the end of each calendar month following permit issuance. [Minn. R. 7001.0150, subp. 2(B)]
		<b>Priority Pollutant Requirements</b>
	6.2.2	The Permittee shall submit the first priority pollutant monitoring report: Due 1095 calendar days before Permit Expiration Date. (By two years after permit issuance date). [Minn. R. 7001]
	6.2.3	The Permittee shall submit the second priority pollutant monitoring report: Due 730 calendar days before Permit Expiration Date. (By three years after permit issuance date). [Minn. R. 7001]
	6.2.4	The Permittee shall submit the third priority pollutant monitoring report: Due 365 calendar days before Permit Expiration Date. (By four years after permit issuance date). [Minn. R. 7001]
		<b>Chronic Toxicity Requirements</b>
	6.3.5	The Permittee shall submit annual chronic toxicity test battery results : Due 180 calendar days after Permit Issuance Date annually thereafter. [Minn. R. 7001]
<b>SW 001</b>	<b>Lake/Reservoir</b>	
		<b>Facility Specific Limit and Monitoring Requirements</b>
	6.4.1	The Permittee shall submit a monthly DMR: Due by 21 days after the end of each calendar month following permit issuance. [Minn. R. 7001.0150, Subp. 2(B)]
<b>SW 002</b>	<b>Lake/Reservoir</b>	
		<b>Facility Specific Limit and Monitoring Requirements</b>
	6.5.1	The Permittee shall submit a monthly DMR: Due by 21 days after the end of each calendar month following permit issuance. [Minn. R. 7001.0150, Subp. 2(B)]
<b>SW 003</b>	<b>Lake/Reservoir</b>	
		<b>Facility Specific Limit and Monitoring Requirements</b>
	6.6.1	The Permittee shall submit a monthly DMR: Due by 21 days after the end of each calendar month following permit issuance. [Minn. R. 7001.0150, Subp. 2(B)]
<b>WS 001</b>	<b>Influent Waste</b>	
		<b>Waste Stream: Class A Major Facility Influent Requirements</b>
	6.7.1	The Permittee shall submit a monthly DMR: Due by 21 days after the end of each calendar month following permit issuance. [Minn. R. 7001.0150, subp. 2(B)]

MN0040738	Alexandria Lake Area Sanitary District	
		<b>Chloride Variance</b>
	6.8.1	The Permittee shall submit a Chloride Investigation and Minimization Plan (variance): Due by 180 days after permit issuance. This Plan corresponds to the second phase of the Streamlined Chloride Variance Action Tree. The Permittee shall update the Plan and submit the updated Plan to the MPCA. [Minn. R. 7001]
	6.8.2	The Permittee shall submit a chloride investigation and minimization annual report (variance): Due by January 31 of each calendar year following submittal of the Chloride Investigation and Minimization Plan. [Minn. R. 7001]
	6.8.3	The Permittee shall submit an application for permit modification: Due 365 calendar days before 11/14/2028. The application shall include either a schedule of compliance for the chloride limit or an application for a new water quality variance. [Minn. R. 7001]
		<b>Compliance Construction Schedule</b>
	6.9.4	The Permittee shall submit a construction progress report: Due annually, by the 31st of December. [Minn. R. 7001]
	6.9.5	The Permittee shall begin construction of the chosen alternative as soon as possible but no later than March 30, 2028. Construction shall proceed for the selected alternative per the MPCA approved Facility Plan and schedule. Written notification shall be submitted to the MPCA within 14 days after the start of construction. The Permittee shall submit a notification of the date construction began: Due 03/30/2028. [Minn. R. 7001]
	6.9.6	The Permittee shall initiate operation of the upgraded Facility as soon as possible but no later than March 30, 2030. Written notification shall be submitted to the MPCA within 14 days of initiation of operation. The Permittee shall initiate operation: Due 03/30/2030. [Minn. R. 7001]
	6.9.7	The Permittee shall attain compliance with the final total phosphorus effluent limits of 0.157 mg/L calendar month average and 665 kg/yr, 12-month moving total as soon as possible but no later than December 31, 2030 (phase 2). Because the Permittee shall complete construction and initiate operation of the upgraded Facility by March 30, 2030, the Permittee should be complying with the effluent limits sooner than December 31, 2030. The Permittee shall attain final total phosphorus effluent limits 90 days after the initiation of operation date. The Permittee shall attain compliance with final effluent limits: Due 90 calendar days after initiate operation. This shall activate phase 2 of the permit. [Minn. R. 7001]
		<b>Mercury Minimization Plan</b>
	6.10.8	The Permittee shall submit a mercury pollutant minimization plan: Due by 180 days after permit issuance. [Minn. R. 7001]
		<b>Pretreatment: Nondelegated Requirements</b>
	6.11.9	The Permittee shall submit a pretreatment annual report: Due by 31 days after the end of each calendar year following permit issuance if a SIU discharges to the POTW during a given calendar year. [Minn. R. 7049]
		<b>Biosolids: Land Application</b>

	6.12.10	The Permittee shall submit a biosolids annual report: Due annually, by the 31st of December. [Minn. R. 7041.1700]
		<b>Total Facility Requirements (NPDES/SDS)</b>
	6.13.11	<b>Permit Reissuance.</b> If the Permittee desires to continue permit coverage beyond the date of permit expiration, the Permittee shall submit an application for permit reissuance: Due by 180 days prior to permit expiration. [Minn. R. 7001.0040]

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**7. Limits and monitoring**

The Permittee shall comply with the limits and monitoring requirements as specified below.

Subject item	Parameter	Discharge limitations							Monitoring requirements			Notes
		Quantity /Loading avg.	Quantity /Loading max.	Quantity /Loading units	Quality /Conc. min.	Quality /Conc. avg.	Quality /Conc. max.	Quality/ Conc. units	Frequency	Sample type	Effective period	
SD 001 Surface Water Discharge	BOD, Carbonaceous 05 Day (20 Deg C)	282 calendar month average	452 maximum calendar week average	kilograms per day		25 calendar month average	40 maximum calendar week average	milligrams per liter	3 times per week	24-Hour Flow Composite	Jan-Dec	
SD 001 Surface Water Discharge	BOD, Carbonaceous 05 Day (20 Deg C) Percent Removal				85 minimum calendar month average			percent	once per month	Calculation	Jan-Dec	
SD 001 Surface Water Discharge Phase 1 and Phase 2	Chloride, Total		14925 daily maximum	kilograms per day		805 calendar month average		milligrams per liter	4 times per month	24-Hour Flow Composite	Jan-Dec	
SD 001 Surface Water Discharge Phase 3	Chloride, Total	4092 calendar month average	4483 daily maximum	kilograms per day		230 calendar month average	252 daily maximum	milligrams per liter	4 times per month	24-Hour Flow Composite	Jan-Dec	
SD 001 Surface Water Discharge	Chlorine, Total Residual						0.038 daily maximum	milligrams per liter	once per day	Grab	Apr-Oct	
SD 001 Surface Water Discharge	Copper, Total (as Cu)	1.618 calendar month average	2.437 daily maximum	kilograms per day					twice per month	24-Hour Flow Composite	Mar, Jun, Sep, Dec	
SD 001 Surface Water Discharge	Fecal Coliform, MPN or Membrane Filter 44.5C					200 calendar month geometric mean		organisms per 100 milliliter	3 times per week	Grab	Apr-Oct	
SD 001 Surface Water Discharge	Flow		Monitor only. calendar month total	million gallons		Monitor only. calendar month average	Monitor only. calendar month maximum	million gallons per day	once per day	Measurement, Continuous	Jan-Dec	

Subject item	Parameter	Discharge limitations						Monitoring requirements				Notes
		Quantity /Loading avg.	Quantity /Loading max.	Quantity /Loading units	Quality /Conc. min.	Quality /Conc. avg.	Quality /Conc. max.	Quality/ Conc. units	Frequency	Sample type	Effective period	
SD 001 Surface Water Discharge	Mercury, Dissolved (as Hg)						Monitor only. calendar month maximum	nanograms per liter	twice per month	Grab	Jan, Mar, May, Jul, Sep, Nov	
SD 001 Surface Water Discharge	Mercury, Total (as Hg)	173 calendar month average	299 daily maximum	milligrams per day					twice per month	Grab	Jan, Mar, May, Jul, Sep, Nov	
SD 001 Surface Water Discharge	Nitrite Plus Nitrate, Total (as N)					Monitor only. calendar month average		milligrams per liter	once per month	24-Hour Flow Composite	Jan-Dec	
SD 001 Surface Water Discharge	Nitrogen, Ammonia, Total (as N)					Monitor only. calendar month average		milligrams per liter	once per month	24-Hour Flow Composite	Jan-Dec	
SD 001 Surface Water Discharge	Nitrogen, Kjeldahl, Total					Monitor only. calendar month average		milligrams per liter	once per month	24-Hour Flow Composite	Jan-Dec	
SD 001 Surface Water Discharge	Nitrogen, Total (as N)					Monitor only. calendar month average		milligrams per liter	once per month	Calculation	Jan-Dec	
SD 001 Surface Water Discharge	Oxygen, Dissolved				Monitor only. calendar month minimum			milligrams per liter	once per day	Grab	Jan-Dec	
SD 001 Surface Water Discharge	pH				6.0 calendar month minimum		9.0 calendar month maximum	standard units	once per day	Grab	Jan-Dec	

Subject item	Parameter	Discharge limitations						Monitoring requirements				Notes
		Quantity /Loading avg.	Quantity /Loading max.	Quantity /Loading units	Quality /Conc. min.	Quality /Conc. avg.	Quality /Conc. max.	Quality/ Conc. units	Frequency	Sample type	Effective period	
SD 001 Surface Water Discharge Phase 1	Phosphorus, Total (as P)	Monitor only. calendar month average		kilograms per day		0.25 calendar month average		milligrams per liter	once per week	24-Hour Flow Composite	Jan-Dec	
SD 001 Surface Water Discharge Phase 1	Phosphorus, Total (as P)		1087 12-month moving total	kilograms per year					once per month	Calculation	Jan-Dec	
SD 001 Surface Water Discharge Phase 2 and Phase 3	Phosphorus, Total (as P)	Monitor only. calendar month average		kilograms per day		0.157 calendar month average		milligrams per liter	once per week	24-Hour Flow Composite	Jan-Dec	
SD 001 Surface Water Discharge Phase 2 and Phase 3	Phosphorus, Total (as P)		665 12-month moving total	kilograms per year					once per month	Calculation	Jan-Dec	
SD 001 Surface Water Discharge	Solids, Total Dissolved (TDS)		34511 daily maximum	kilograms per day					twice per month	24-Hour Flow Composite	Mar, Jun, Sep, Dec	
SD 001 Surface Water Discharge	Solids, Total Suspended (TSS)	339 calendar month average	508 maximum calendar week average	kilograms per day		30 calendar month average	45 maximum calendar week average	milligrams per liter	3 times per week	24-Hour Flow Composite	Jan-Dec	
SD 001 Surface Water Discharge	Solids, Total Suspended (TSS) Percent Removal				85 minimum calendar month average			percent	once per month	Calculation	Jan-Dec	
SD 001 Surface Water Discharge	Solids, Total Suspended (TSS), grab (Mercury)						Monitor only. calendar month maximum	milligrams per liter	twice per month	Grab	Jan, Mar, May, Jul, Sep, Nov	

Subject item	Parameter	Discharge limitations						Monitoring requirements				Notes
		Quantity /Loading avg.	Quantity /Loading max.	Quantity /Loading units	Quality /Conc. min.	Quality /Conc. avg.	Quality /Conc. max.	Quality/ Conc. units	Frequency	Sample type	Effective period	
SD 001 Surface Water Discharge	Specific Conductance						Monitor only. calendar quarter maximum	micromhos per cm	once per quarter	Measurement	Mar, Jun, Sep, Dec	
SD 001 Surface Water Discharge	Sulfate, Total (as SO4)	2828 calendar month average		kilograms per day					twice per month	24-Hour Flow Composite	Jan-Dec	
SD 001 Surface Water Discharge	Zinc, Total (as Zn)	3.45 calendar month average	5.283 daily maximum	kilograms per day					twice per month	24-Hour Flow Composite	Mar, Jun, Sep, Dec	
SW 001 Lake Winona - Northeast Site	Chlorophyll a, corrected					Monitor only. calendar month average		milligrams per liter	once per month	Grab	May, Oct	
SW 001 Lake Winona - Northeast Site	Chlorophyll a, corrected					Monitor only. calendar month average		milligrams per liter	twice per month	Grab	Jun-Sep	
SW 001 Lake Winona - Northeast Site	Phosphorus, Total (as P)					Monitor only. calendar month average		milligrams per liter	twice per month	Grab	Jun-Sep	
SW 001 Lake Winona - Northeast Site	Phosphorus, Total (as P)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	May, Oct	
SW 001 Lake Winona - Northeast Site	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	May-Oct	

Subject item	Parameter	Discharge limitations						Monitoring requirements				Notes
		Quantity /Loading avg.	Quantity /Loading max.	Quantity /Loading units	Quality /Conc. min.	Quality /Conc. avg.	Quality /Conc. max.	Quality/ Conc. units	Frequency	Sample type	Effective period	
SW 001 Lake Winona - Northeast Site	Transparency, Secchi Disc	Monitor only. calendar month average		meters					once per month	Grab	May, Oct	
SW 001 Lake Winona - Northeast Site	Transparency, Secchi Disc	Monitor only. calendar month average		meters					twice per month	Grab	Jun-Sep	
SW 002 Lake Winona - Southwest Site	Chlorophyll a, corrected					Monitor only. calendar month average		milligrams per liter	twice per month	Grab	Jun-Sep	
SW 002 Lake Winona - Southwest Site	Chlorophyll a, corrected					Monitor only. calendar month average		milligrams per liter	once per month	Grab	May, Oct	
SW 002 Lake Winona - Southwest Site	Phosphorus, Total (as P)					Monitor only. calendar month average		milligrams per liter	twice per month	Grab	Jun-Sep	
SW 002 Lake Winona - Southwest Site	Phosphorus, Total (as P)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	May, Oct	
SW 002 Lake Winona - Southwest Site	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	May-Oct	

Subject item	Parameter	Discharge limitations						Monitoring requirements				Notes
		Quantity /Loading avg.	Quantity /Loading max.	Quantity /Loading units	Quality /Conc. min.	Quality /Conc. avg.	Quality /Conc. max.	Quality/ Conc. units	Frequency	Sample type	Effective period	
SW 002 Lake Winona - Southwest Site	Transparency, Secchi Disc	Monitor only. calendar month average		meters					once per month	Grab	May, Oct	
SW 002 Lake Winona - Southwest Site	Transparency, Secchi Disc	Monitor only. calendar month average		meters					twice per month	Grab	Jun-Sep	
SW 003 Lake Agnes	Chlorophyll a, corrected					Monitor only. calendar month average		milligrams per liter	twice per month	Grab	Jun-Sep	
SW 003 Lake Agnes	Chlorophyll a, corrected					Monitor only. calendar month average		milligrams per liter	once per month	Grab	May, Oct	
SW 003 Lake Agnes	Phosphorus, Total (as P)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	May, Oct	
SW 003 Lake Agnes	Phosphorus, Total (as P)					Monitor only. calendar month average		milligrams per liter	twice per month	Grab	Jun-Sep	
SW 003 Lake Agnes	Sulfate, Total (as SO4)					Monitor only. calendar month average		milligrams per liter	once per month	Grab	May-Oct	

Subject item	Parameter	Discharge limitations						Monitoring requirements				Notes
		Quantity /Loading avg.	Quantity /Loading max.	Quantity /Loading units	Quality /Conc. min.	Quality /Conc. avg.	Quality /Conc. max.	Quality/ Conc. units	Frequency	Sample type	Effective period	
SW 003 Lake Agnes	Transparency, Secchi Disc	Monitor only. calendar month average		meters					twice per month	Grab	Jun-Sep	
SW 003 Lake Agnes	Transparency, Secchi Disc	Monitor only. calendar month average		meters					once per month	Grab	May, Oct	
WS 001 Influent Waste Stream	BOD, Carbonaceous 05 Day (20 Deg C)					Monitor only. calendar month average	Monitor only. calendar month maximum	milligrams per liter	3 times per week	24-Hour Flow Composite	Jan-Dec	
WS 001 Influent Waste Stream	Copper, Total (as Cu)					Monitor only. calendar quarter average		milligrams per liter	once per quarter	24-Hour Flow Composite	Mar, Jun, Sep, Dec	
WS 001 Influent Waste Stream	Flow		Monitor only. calendar month total	million gallons		Monitor only. calendar month average	Monitor only. calendar month maximum	million gallons per day	once per day	Measurement, Continuous	Jan-Dec	
WS 001 Influent Waste Stream	Nitrite Plus Nitrate, Total (as N)					Monitor only. calendar month average		milligrams per liter	once per month	24-Hour Flow Composite	Jan-Dec	
WS 001 Influent Waste Stream	Nitrogen, Kjeldahl, Total					Monitor only. calendar month average		milligrams per liter	once per month	24-Hour Flow Composite	Jan-Dec	
WS 001 Influent Waste Stream	Nitrogen, Total (as N)					Monitor only. calendar month average		milligrams per liter	once per month	Calculation	Jan-Dec	

Subject item	Parameter	Discharge limitations						Monitoring requirements				Notes
		Quantity /Loading avg.	Quantity /Loading max.	Quantity /Loading units	Quality /Conc. min.	Quality /Conc. avg.	Quality /Conc. max.	Quality/ Conc. units	Frequency	Sample type	Effective period	
WS 001 Influent Waste Stream	pH				Monitor only. calendar month minimum		Monitor only. calendar month maximum	standard units	once per day	Grab	Jan-Dec	
WS 001 Influent Waste Stream	Phosphorus, Total (as P)					Monitor only. calendar month average		milligrams per liter	once per week	24-Hour Flow Composite	Jan-Dec	
WS 001 Influent Waste Stream	Precipitation		Monitor only. calendar month total	inches					once per day	Measurement	Jan-Dec	
WS 001 Influent Waste Stream	Solids, Total Suspended (TSS)					Monitor only. calendar month average	Monitor only. calendar month maximum	milligrams per liter	3 times per week	24-Hour Flow Composite	Jan-Dec	