

National Pollutant Discharge Elimination System/State Disposal System

MN0025445

Permittee: City of Hector
Facility name: Hector Wastewater Treatment Plant
Receiving water: Judicial Ditch 15 - Class 7, 3C, 4A, 4B, 5, 6 water
City or Township: Hector **County:** Renville
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

[Type name]

[Title]

[Division]

Submit eDMRs

Submit via the MPCA e-Services at
https://rsp.pca.state.mn.us/TEMPO_RSP/Orchestrate.do?initiate=true

Submit WQ reports to:

Electronically: wq.submittals.mPCA@state.mn.us

Include *Water quality submittals form*:
<https://www.pca.state.mn.us/sites/default/files/wq-wwprm7-71.docx>

Or, by mail:

Attention: WQ Submittals Center
Minnesota Pollution Control Agency
520 Lafayette Road North
St. Paul, MN 55155-4194

Whole Effluent Testing (WET) and Pretreatment Annual Reports must be mailed to the WQ Submittals Center

Questions on this permit?

For eDMR and other permit reporting issues, use the directory listed at the bottom of the DMR 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>

Wastewater Permit Program general questions, contact:

MPCA, 651-282-6143 or 1-800-657-3938.

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1. Permitted facility description

The Hector Wastewater Treatment Facility (Facility) is located in the NE $\frac{1}{4}$ of the NE $\frac{1}{4}$ of Section 28, Township 115 North, Range 32 West, Hector Township, Renville County, Minnesota. This is a Class A facility.

The application and plans indicate that the Facility consists of an influent lift station, an EQ lift station, mechanical screening, washing, and bagging unit, a manual bar screen, a vortex grit chamber with grit classifier, four aeration basins, two final clarifiers, an ultraviolet disinfection contact basin, an earthen influent equalization basin, a mechanical sludge thickener, and thickened sludge aerobic digester/storage tank(s).

The Facility has a continuous discharge (Discharge SD004) to Judicial Ditch No. 15 (Class 7, 3C, 4A, 4B, 5, 6, Water) and then to Buffalo Creek (Class 2B, 3B, 4A, 4B, 5, 6 Water) and has an average wet weather (AWW) design flow of 658,000 gallons per day (gpd) and a peak hourly wet weather flow of 4,780,000 gpd. The Facility is designed to treat a five-day carbonaceous biochemical oxygen demand (CBOD₅) strength of 793 pounds 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.

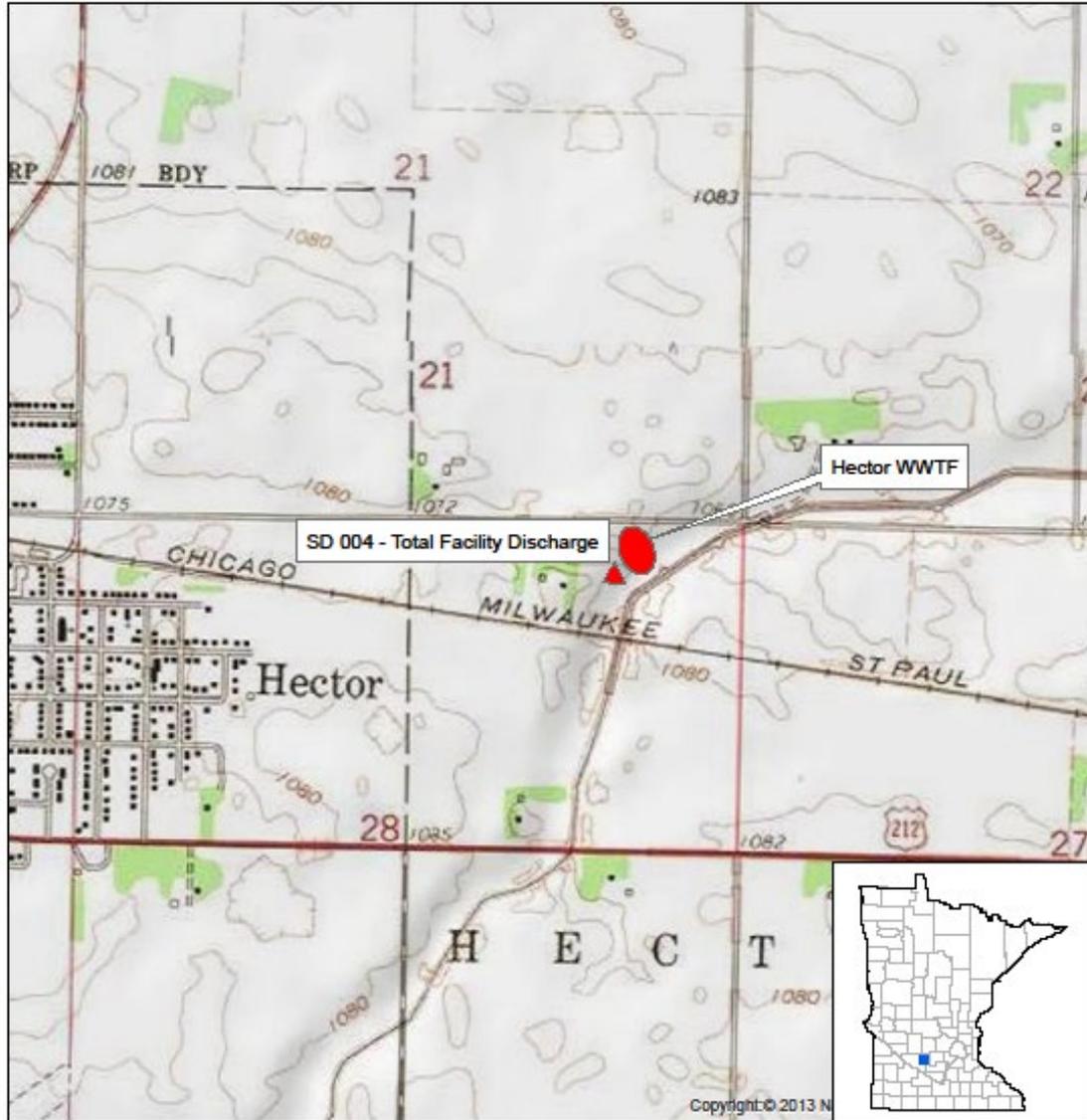
This Permit also complies with Minn. R. 7053.0275 regarding anti-backsliding.

Any point source discharger of sewage, industrial, or other wastes for which a 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

Topographic Map of Permitted Facility

MN0025445: Hector Wastewater Treatment Facility
T115N, R32W, Section 28
Hector Township, Renville County, Minnesota



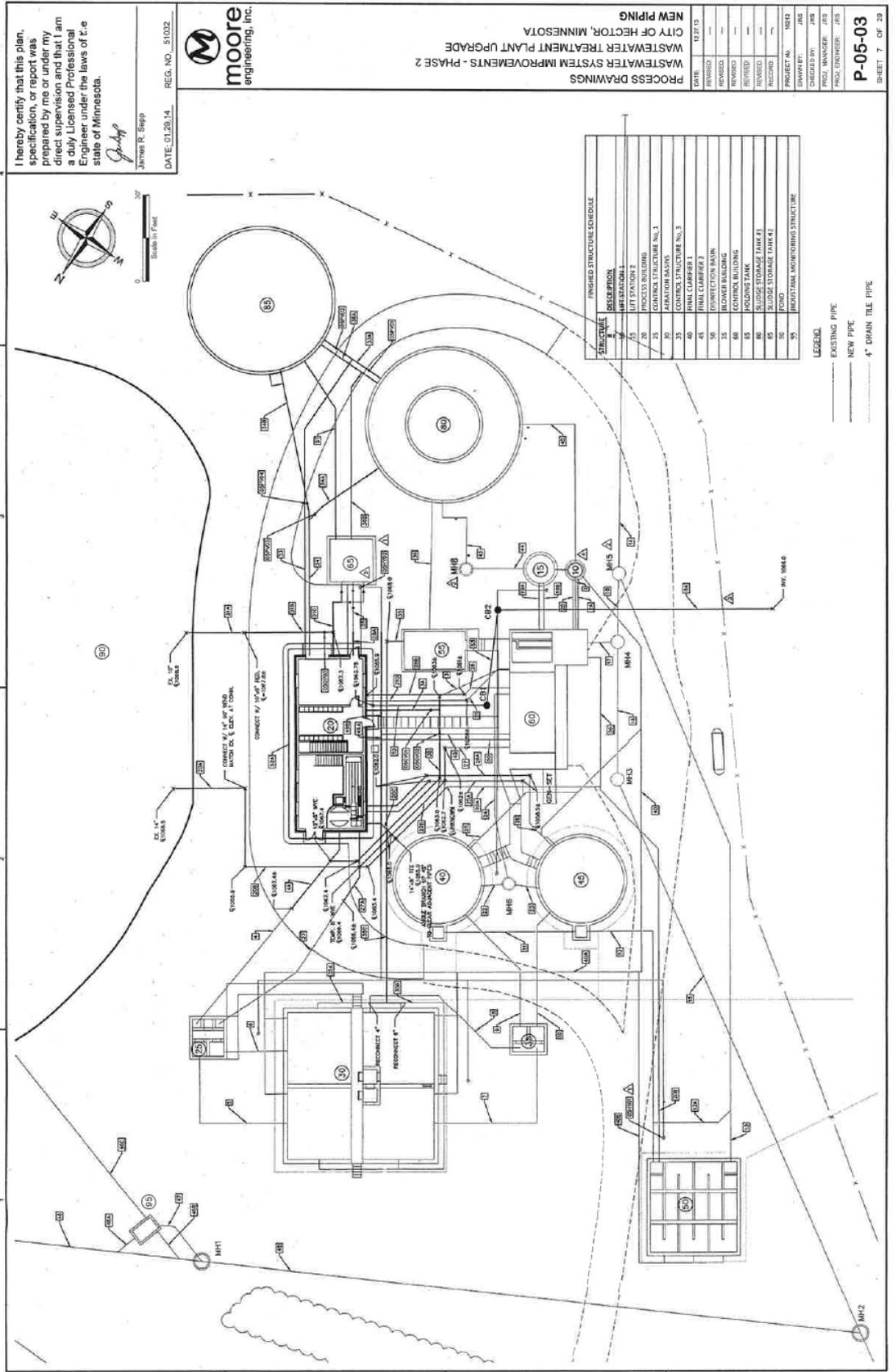
Map produced by: MPCA Staff, 4/16/2021
Scale: 1:13,942

0 0.125 0.25 0.5 Miles



3. Flow diagram

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4. Summary of stations and station locations

Station	Type of station	Local name	PLS location
SD 004	Effluent To Surface Water	Total Facility Discharge	T155N, R32W, S28
WS 001	Influent Waste	Influent Waste Stream	T115N, R32W, S28

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5. Permit requirements

SD 004	Effluent To Surface Water	
Surface Discharge: Class A Minor Facility Effluent Requirements		
	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	Sampling Location. [Minn. R. 7001.0150, Subp. 2(B)]
	5.1.3	Samples for Station SD 004 shall be taken at a point representative of the total facility discharge. [Minn. R. 7001.0150, Subp. 2(B)]
	5.1.4	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)]
Facility Specific Requirements		
	5.2.5	The permit includes a final total phosphorous water quality based effluent limit (WQBEL) of 0.63 mg/L June - September, calendar month average. The WQBEL is based on achieving a long-term average (multi-summer) WLA of 0.30 mg/L, June - September, which is necessary to achieve river eutrophication standards (RES) in the South Fork Crow River Watershed. Since the long-term average is to be achieved over a multi-summer periods the MPCA calculated a monthly limit that accounts for variability of treatment over time. At permit reissuance, MPCA will evaluate all available data to ensure RES are met [Minn. R. 7001]". If necessary future RES based limits may be adjusted to achieve RES in the South Fork Crow The permit includes a total phosphorus WQBEL of 912 kilograms per year (kg/yr), January - December, to protect for an eutrophication impairment in Lake Pepin and is consistent with lake eutrophication standards (LES). This limit is a 12-month moving total. [Minn. R. 7001]
	5.2.6	Parameters with a monitoring frequency of once per quarter and an effective period of Mar, Jun, Sep, Dec can be sampled any time during that calendar quarter. Permittees must report their 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. Permittees shall report the sample for the first calendar quarter of Jan-Mar on the sample values spreadsheet in the month the sample is collected and on the March eDMR). [Minn. R. 7001]
WS 001	Influent Waste	
Waste Stream: Class A Minor Facility Influent Requirements		
	5.3.1	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)]
	5.3.2	Sampling Location. [Minn. R. 7001.0150, Subp. 2(B)]
	5.3.3	Samples for Station WS 001 shall be taken at a point representative of the total influent flow. [Minn. R. 7001.0150, Subp. 2(B)]
	5.3.4	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)]
MN0025445	Hector WWTP	
Surface Discharge Station General Requirements		

5.4.1	Analysis Requirements. [Minn. R. 7001]
5.4.2	Dissolved Oxygen, pH, Specific Conductance, and Temperature analyses shall be conducted within 15 minutes of Sample collection. [Minn. R. 7053]
5.4.3	Representative Samples. [Minn. R. 7001]
5.4.4	Samples and measurements required by this permit shall be representative of the monitored activity. [Minn. R. 7001]
5.4.5	Surface Discharge Prohibitions. [Minn. R. 7001]
5.4.6	Floating solids or visible foam shall not be discharged in other than trace amounts. [Minn. R. 7001]
5.4.7	Oil or other substances shall not be discharged in amounts that create a visible color film. [Minn. R. 7001]
5.4.8	The Permittee shall install and maintain outlet protection measures at the discharge stations to prevent erosion. [Minn. R. 7001]
5.4.9	Winter Sampling Conditions. [Minn. R. 7001]
5.4.10	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, the Permittee shall check the "No Discharge" box on the Discharge Monitoring Report (DMR) and note the ice conditions in Comments on the DMR. [Minn. R. 7001]
5.4.11	Chlorine Addition Requirements. [Minn. R. 7001]
5.4.12	If chlorine is added for any purpose, the Permittee shall monitor the discharge for Total Residual Chlorine once per day during chlorine usage. The Permittee shall report the monitoring data as a comment on the next submitted Discharge Monitoring Report for the affected station. The discharge shall not exceed a 0.038 mg/L Total Residual Chlorine limit. [Minn. R. 7001]
5.4.13	Phosphorus Limits and Monitoring Requirements. [Minn. R. 7001]
5.4.14	Phosphorus Calculation Definitions. [Minn. R. 7001]
5.4.15	"12-Month Moving Total" is a rolling total. To calculate, for each month multiply the total volume of effluent flow (MG) by the monthly average concentration and by a 3.785 conversion factor to get kg/month. Then add all of the monthly values (kg/mo) during the last twelve months, starting with the monthly total for the month of the current reporting period. [Minn. R. 7001]
5.4.16	Mercury Limits and Monitoring Requirements. [Minn. R. 7001]
5.4.17	Permittees are required to sample for TSS (grab sample) at the same time that Total/Dissolved Mercury samples are taken. Total Mercury, Dissolved Mercury, and TSS (grab sample) samples shall be collected via grab samples. All results shall be recorded on DMRs. [Minn. R. 7001]
5.4.18	Total and Dissolved Mercury samples shall be analyzed using the most current versions of EPA Method 1631 with clean techniques method 1669. Should another mercury analytical method that has a reportable quantitation level of <0.5 ng/L that allows for low-level sample characterization be approved by the EPA and certified by an MPCA recognized accreditation body, the method may be used in place of 1631/1669. [Minn. R. 7001]
5.4.19	Mercury monitoring and a concurrent TSS grab sample with a frequency of once per month and an effective period of July are to be taken once during the month of July for a total of one sample per year. Effluent monitoring should occur at a similar time to influent monitoring, if possible. Samples collected for a Calendar Month Average limit type shall be collected in the same month. Spring discharge results shall be reported on the June DMR and fall discharge results shall be reported on the December DMR. If a spring and/or fall discharge does not occur, the Permittee shall add a comment to the June and/or December DMR stating that no spring and/or fall discharge occurred. [Minn. R. 7001]
5.4.20	Nitrogen Limits and Monitoring Requirements. [Minn. R. 7001]
5.4.21	"Total Nitrogen" is to be reported as the summation of the Total Kjeldahl Nitrogen and Total Nitrite plus Nitrate Nitrogen values. [Minn. R. 7001]
	Waste Stream Station General Requirements

5.5.22	Analysis Requirements. [Minn. R. 7001]
5.5.23	Dissolved Oxygen, pH, Specific Conductance, and Temperature analyses shall be conducted within 15 minutes of Sample collection. [Minn. R. 7053]
5.5.24	Representative Samples. [Minn. R. 7001]
5.5.25	Grab and composite samples shall be collected at a point representative of total influent flow to the system. [Minn. R. 7001]
5.5.26	Mercury Limits and Monitoring Requirements. [Minn. R. 7001]
5.5.27	Total Mercury samples shall be grab samples and shall be analyzed using EPA Method 1631 with clean techniques method 1669 and any revisions to those methods. Should another mercury analytical method that has a reportable quantitation level that allows for low-level sample characterization be approved by the EPA and certified by the Minnesota Department of Health, the Permittee is authorized to use that method. [Minn. R. 7001]
5.5.28	Mercury monitoring with a frequency of once per month and an effective period of July are to be taken once during the month of July for a total of one sample per year. Influent monitoring should occur at a similar time to mercury effluent monitoring, if possible. Samples collected for a Calendar Month Average statistical basis shall be collected in the same month. Spring discharge results shall be reported on the June DMR and fall discharge results shall be reported on the December DMR. If a spring and/or fall discharge does not occur, please submit a comment attachment to the June and/or December DMR stating that no spring and/or fall discharge occurred. [Minn. R. 7001]
5.5.29	Nitrogen Limits and Monitoring Requirements. [Minn. R. 7001]
5.5.30	"Total Nitrogen" is to be reported as the summation of the Total Kjeldahl Nitrogen and Total Nitrite plus Nitrate Nitrogen values. [Minn. R. 7001]
	Compliance Schedule Requirements
5.6.31	Phosphorus Compliance Schedule. [Minn. R. 7001]
5.6.32	A new Phosphorus limit of 0.63 mg/L, effective June-September, has been assigned to this Facility. A compliance schedule has been included in this permit reissuance in order to allow the Permittee to continue pursuing treatment options that will allow the Facility to attain compliance with the new limit. The monitoring that will take place upon permit reissuance will be "Phase 1", and the final limit will be considered "Phase 2". The Permittee shall meet the final total Phosphorus limit as soon as possible, but no later than 30 days prior to permit expiration. If at any time prior to this date the Permittee determines that they have attained compliance with the final limit, they shall notify the MPCA in writing within 14 days of attainment. [Minn. R. 7001]
5.6.33	For the first year after permit reissuance, the Permittee will continue to try to optimize their biological treatment process for Phosphorus. At the end of the first year following permit reissuance, the Permittee shall submit a report to the MPCA detailing the WWTP's ability to consistently meet the final limit for Phosphorus. submit a report : Due by 365 days after permit issuance. submit a report : Due by 365 days after permit issuance. [Minn. R. 7001]
5.6.34	If at the end of the first year following permit reissuance the Permittee determines that it can consistently meet the final Phosphorus limit, they shall notify the MPCA in the required report and attain compliance with the final limit within 30 days following notification. The final Phosphorus limit will go into effect at this time. [Minn. R. 7001]
5.6.35	If the results of the report indicate that the Facility is unable to consistently meet the final Phosphorus limit, the Permittee shall submit a facility plan within 18 months after permit reissuance assessing compliance options, including potential construction necessary to meet the final effluent limit. [Minn. R. 7001]
5.6.36	By 2 years after permit reissuance, the Permittee shall submit plans and specifications for their construction project. [Minn. R. 7001]
5.6.37	By 3 years after permit reissuance, the Permittee shall bid their project. [Minn. R. 7001]

5.6.38	By 4 years after permit reissuance, the Permittee shall initiate operation of the upgraded facility and notify the MPCA when the project is complete. The Permittee shall attain compliance with the final phosphorus effluent limit as soon as possible, but no later than 30 days prior to permit expiration. attain compliance with final effluent limits : Due 30 calendar days before 09/30/2021. [Minn. R. 7001]
	Mercury Minimization Plan
5.7.39	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]
5.7.40	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]
5.7.41	The Permittee shall submit a mercury pollutant minimization plan : Due by 180 days prior to permit expiration. [Minn. R. 7001]
5.7.42	At a minimum, the MMP shall include the following: <ul style="list-style-type: none"> a. A summary of mercury influent and effluent concentrations and biosolids monitoring data using the most recent five years of monitoring data, if available. 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 & infiltration) inputs, lift station components, and waste streams or sewer tributaries to the wastewater treatment facility. c. An evaluation of past and present WWTF operations to determine those operating procedures that maximize mercury removal. d. A summary of any mercury reduction activities implemented during the last five years. e. A plan to implement mercury management and reduction measures during the next five years. [Minn. R. 7001]
	Mechanical System
5.8.43	Bypass Structures. [Minn. R. 7001]
5.8.44	All structures capable of bypassing the treatment system shall be manually controlled and kept locked at all times. [Minn. R. 7001.0030]
5.8.45	Sanitary Sewer Extension Permit. [Minn. R. 7001]
5.8.46	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]
5.8.47	Operator Certification. [Minn. R. 7001]
5.8.48	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]
5.8.49	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]

5.8.50	<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> <p>A. The certified operator's name, certificate number, company name (if appropriate), and the period covered by the contract and provisions for renewal; B. The duties and responsibilities of the certified operator; C. The duties and responsibilities of the Permittee; and 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]</p>
5.8.51	<p>The Permittee shall notify the MPCA within 30 days of a change in operator certification or contract status. [Minn. R. 9400]</p>
	<p>Pretreatment: Undelegated Requirements</p>
5.9.52	<p>Pretreatment - Definitions. [Minn. R. 7049]</p>
5.9.53	<p>An "Individual Control Mechanism" is a document, such as an agreement or permit, that imposes limitations or requirements on an individual industrial user of the POTW. [Minn. R. 7049]</p>
5.9.54	<p>"Significant Industrial User" (SIU) means any industrial user that:</p> <p>a. discharges 25,000 gallons per day or more of process wastewater; b. contributes a load of five (5) % or more of the capacity of the POTW; or c. is designated as significant by the Permittee or the MPCA on the basis that the SIU has a reasonable potential to adversely impact the POTW, or the quality of its effluent or residuals. [Minn. R. 7049]</p>
5.9.55	<p>Pretreatment - Permittee Responsibility to Control Users. [Minn. R. 7049]</p>
5.9.56	<p>It is the Permittee's responsibility to regulate the discharge from users of its wastewater treatment facility. The Permittee shall prevent any pass through of pollutants or any inhibition or disruption of the Permittee's facility, 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]</p>
5.9.57	<p>The Permittee shall prohibit the discharge of the following to its wastewater treatment facility:</p> <p>a. pollutants which create a fire or explosion hazard, including any discharge with a flash point less than 60 degrees C (140 degrees F); b. pollutants which would cause corrosive structural damage to the POTW, including any waste stream with a pH of less than 5.0; c. solid or viscous pollutants which would obstruct flow; d. 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); e. pollutants which produce toxic gases, vapors, or fumes that may endanger the health or safety of workers; or f. 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. [Minn. R. 7049]</p>
5.9.58	<p>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 wastewater treatment facility 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]</p>
5.9.59	<p>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]</p>

5.9.60	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: pollutants limited in this permit, pollutants for which monitoring is required in this permit, pollutants that are likely to cause inhibition of the Permittee's POTW, pollutants which may interfere with sludge disposal, and pollutants for which the Permittee's treatment facility has limited capacity. [Minn. R. 7049]
5.9.61	Control of Significant Industrial Users. [Minn. R. 7049]
5.9.62	The Permittee shall impose pretreatment requirements on SIUs which will 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]
5.9.63	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]
5.9.64	Monitoring of Significant Industrial Users. [Minn. R. 7049]
5.9.65	The Permittee shall obtain from SIUs specific information 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]
5.9.66	Reporting and Notification. [Minn. R. 7049]
5.9.67	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]
5.9.68	<p>The Pretreatment Annual Report shall be submitted on forms provided by the agency or shall provide equivalent information.</p> <p>The Permittee shall submit the pre-treatment report to the following address:</p> <p>MPCA Attn: WQ Submittals Center 520 Lafayette Road North St. Paul, Minnesota 55155-4194. [Minn. R. 7049]</p>
5.9.69	<p>The Permittee shall notify the MPCA in writing of any:</p> <ul style="list-style-type: none">a. SIU of the Permittee's POTW which has not been previously disclosed to the MPCA;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 chapter; orc. 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. <p>This notification shall be submitted within 30 days of identifying the IU as a SIU. Where changes are proposed, they shall be submitted prior to changes being made. [Minn. R. 7049]</p>

5.9.70	<p>Upon notifying the MPCA of a SIU or change in a SIU discharge as required above, the Permittee shall submit the following information on forms provided by the agency or in a comparable format:</p> <ul style="list-style-type: none"> a. the identity of the SIU and a description of the SIU's operation and process; b. a characterization of the SIU's discharge; c. the required local limits that will be imposed on the SIU; d. a technical justification of the required local limits; and e. a plan for monitoring the SIU which is consistent with monitoring requirements in this chapter. <p>[Minn. R. 7049]</p>
5.9.71	<p>In addition, the Permittee shall, upon request, submit the following to the MPCA for approval:</p> <ul style="list-style-type: none"> 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]
5.9.72	<p>The permittee shall notify MPCA of any of its industrial users that may be subject to national categorical pretreatment standards. [Minn. R. 7049]</p>
5.9.73	<p>This permit may be modified in accordance with Minnesota Rules, ch. 7001 to require development of a pretreatment program approvable under the Federal General Pretreatment Regulation (40 CFR 403). [Minn. R. 7049]</p>
	<p>Biosolids: Land Application</p>
5.10.74	<p>Authorization. [Minn. R. 7041]</p>
5.10.75	<p>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]</p>
5.10.76	<p>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. 7041.0800]</p>
5.10.77	<p>Compliance Responsibility. [Minn. R. 7041]</p>
5.10.78	<p>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]</p>
5.10.79	<p>Notification Requirements. [Minn. R. 7041]</p>
5.10.80	<p>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]</p>
5.10.81	<p>Pollutant Limits. [Minn. R. 7041]</p>

5.10.82	<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) Parameter in units mg/kg</p> <table border="0"> <tr><td>Arsenic</td><td>75</td></tr> <tr><td>Cadmium</td><td>85</td></tr> <tr><td>Copper</td><td>4300</td></tr> <tr><td>Lead</td><td>840</td></tr> <tr><td>Mercury</td><td>57</td></tr> <tr><td>Molybdenum</td><td>75</td></tr> <tr><td>Nickel</td><td>420</td></tr> <tr><td>Selenium</td><td>100</td></tr> <tr><td>Zinc</td><td>7500</td></tr> </table> <p>Table 2 Cumulative Loading Limits Parameter in units lbs/acre</p> <table border="0"> <tr><td>Arsenic</td><td>37</td></tr> <tr><td>Cadmium</td><td>35</td></tr> <tr><td>Copper</td><td>1339</td></tr> <tr><td>Lead</td><td>268</td></tr> <tr><td>Mercury</td><td>15</td></tr> <tr><td>Molybdenum</td><td>not established*</td></tr> <tr><td>Nickel</td><td>375</td></tr> <tr><td>Selenium</td><td>89</td></tr> <tr><td>Zinc</td><td>2500</td></tr> </table> <p>*The cumulative limit for molybdenum has not been established at the time of permit issuance. [Minn. R. 7041.1100]</p>	Arsenic	75	Cadmium	85	Copper	4300	Lead	840	Mercury	57	Molybdenum	75	Nickel	420	Selenium	100	Zinc	7500	Arsenic	37	Cadmium	35	Copper	1339	Lead	268	Mercury	15	Molybdenum	not established*	Nickel	375	Selenium	89	Zinc	2500
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5.10.83	Pathogen and Vector Attraction Reduction. [Minn. R. 7041]																																				
5.10.84	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]																																				
5.10.85	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]																																				
5.10.86	<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>																																				
5.10.87	Management Practices. [Minn. R. 7041]																																				

5.10.88	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]															
5.10.89	<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>															
5.10.90	Monitoring Requirements. [Minn. R. 7041]															
5.10.91	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]															
5.10.92	<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. pts. 7041.1300 and 7041.1400 if used to determine compliance with those parts.</p> <p>Table 3 Minimum Sampling Frequencies</p> <table border="1" data-bbox="407 1066 1520 1297"> <thead> <tr> <th data-bbox="407 1066 781 1129">Biosolids Applied* (metric tons/365-day period)</th> <th data-bbox="781 1066 1154 1129">Biosolids Applied* (tons/365-day period)</th> <th data-bbox="1154 1066 1520 1129">Frequency (times/365-day period)</th> </tr> </thead> <tbody> <tr> <td data-bbox="407 1163 781 1194">>0 but <290</td> <td data-bbox="781 1163 1154 1194">>0 but <320</td> <td data-bbox="1154 1163 1520 1194">1</td> </tr> <tr> <td data-bbox="407 1197 781 1228">≥290 but <1,500</td> <td data-bbox="781 1197 1154 1228">≥320 but <1,650</td> <td data-bbox="1154 1197 1520 1228">4</td> </tr> <tr> <td data-bbox="407 1230 781 1262">≥1,500 but <15,000</td> <td data-bbox="781 1230 1154 1262">≥1,650 but <16,500</td> <td data-bbox="1154 1230 1520 1262">6</td> </tr> <tr> <td data-bbox="407 1264 781 1295">≥15,000</td> <td data-bbox="781 1264 1154 1295">≥16,500</td> <td data-bbox="1154 1264 1520 1295">12</td> </tr> </tbody> </table> <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. 7041.1400]</p>	Biosolids Applied* (metric tons/365-day period)	Biosolids Applied* (tons/365-day period)	Frequency (times/365-day period)	>0 but <290	>0 but <320	1	≥290 but <1,500	≥320 but <1,650	4	≥1,500 but <15,000	≥1,650 but <16,500	6	≥15,000	≥16,500	12
Biosolids Applied* (metric tons/365-day period)	Biosolids Applied* (tons/365-day period)	Frequency (times/365-day period)														
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≥1,500 but <15,000	≥1,650 but <16,500	6														
≥15,000	≥16,500	12														
5.10.93	<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>															

5.10.94	<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 (mg/kg dry weight basis)</p> <table border="0"> <tr><td>Arsenic</td><td>38</td></tr> <tr><td>Cadmium</td><td>43</td></tr> <tr><td>Copper</td><td>2150</td></tr> <tr><td>Lead</td><td>420</td></tr> <tr><td>Mercury</td><td>28</td></tr> <tr><td>Molybdenum</td><td>38</td></tr> <tr><td>Nickel</td><td>210</td></tr> <tr><td>Selenium</td><td>50</td></tr> <tr><td>Zinc</td><td>3750. [Minn. R. 7041]</td></tr> </table>	Arsenic	38	Cadmium	43	Copper	2150	Lead	420	Mercury	28	Molybdenum	38	Nickel	210	Selenium	50	Zinc	3750. [Minn. R. 7041]
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Zinc	3750. [Minn. R. 7041]																		
5.10.95	Records. [Minn. R. 7041]																		
5.10.96	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]																		
5.10.97	Reporting Requirements. [Minn. R. 7041]																		
5.10.98	The Permittee shall submit a biosolids annual report : Due annually, by the 31st of December on a form provided by or approved by the MPCA. The report shall include the requirements in Minnesota Rules, part 7041.1700. [Minn. R. 7041.1700]																		
5.10.99	<p>The Permittee shall submit a Biosolids Annual Report by December 31 of each year for biosolids storage and/or transfer activities occurring during the cropping year previous to December 31.</p> <p>The report shall indicate whether or not biosolids were transferred and/or stored. If biosolids were transferred, the report shall describe how much was transferred, where it was transferred to, the name of the facility that accepted the transfer, and the contact person at that facility.</p> <p>"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]</p>																		
5.10.100	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]																		
5.10.101	<p>The Biosolids Annual Report is found on the MPCA website at URL; https://www.pca.state.mn.us/water/wastewater-operator-resources</p> <p>The Permittee shall submit the Biosolids Annual Report to the MPCA, WQ Submittals Center. [Minn. R. 7041]</p>																		
5.10.102	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]																		
	Total Residual Oxidants																		
5.11.103	General Requirements. [Minn. R. 7001]																		
5.11.104	Total Residual Chlorine (TRC) shall be analyzed immediately. This means within 15 minutes or less of sample collection. [40 CFR 136.6]																		

5.11.105	A Reportable 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]
5.11.106	A RL of 0.04 mg/L is considered in compliance with the 0.038 mg/L limit. [Minn. R. 7001]
5.11.107	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]
5.11.108	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]
5.11.109	Compliance with a Daily Maximum limit . [Minn. R. 7001]
5.11.110	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]
5.11.111	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]
5.11.112	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: A. The second sample shall be taken two hours after the initial sample; and B. Subsequent samples shall be taken at one-hour intervals not to exceed twelve samples in a 24-hour period 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]
	Total Facility Requirements (NPDES/SDS)
5.12.113	Definitions. Refer to the Permit User's Manual found on the MPCA's website (https://www.pca.state.mn.us) for standard definitions. [Minn. R. 7001]
5.12.114	Incorporation by Reference. 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]
5.12.115	Permittee Responsibility. 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)]
5.12.116	Toxic Discharges Prohibited. 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)]
5.12.117	Nuisance Conditions Prohibited. 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]
5.12.118	Property Rights. This permit does not convey a property right or an exclusive privilege. [Minn. R. 7001.0150, subp. 3(C)]
5.12.119	Liability Exemption. 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)]

5.12.120	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)]
5.12.121	Liabilities. 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)]
5.12.122	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)]
5.12.123	Severability. 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]
5.12.124	Compliance with Other Rules and Statutes. 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]
5.12.125	Inspection and Entry. 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)]
5.12.126	Control Users. 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)]
5.12.127	Sampling. [Minn. R. 7001]
5.12.128	Representative Sampling. 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)]
5.12.129	Additional Sampling. 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)]
5.12.130	Certified/Accredited Laboratory. 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]
5.12.131	Sample Preservation and Procedure. 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]
5.12.132	Equipment Calibration. 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)]

5.12.133	<p>Maintain Records. 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">A. The exact place, date, and time of the sample or measurement;B. The date of analysis;C. The name of the person who performed the sample collection, measurement, analysis, or calculation;D. The analytical techniques, procedures, and methods used; andE. The results of the analysis. [Minn. R. 7001.0150, subp. 2(C)]
5.12.134	<p>Completing Reports. 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>
5.12.135	<p>Submitting Reports. 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 PM 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 or by mail. The Permittee shall submit reports by the date specified in this permit. For electronic submittals, the Permittee shall submit on or before 11:59 PM on the date specified in this permit. For mailed submittals, the Permittee shall ensure that submittals via U.S. Postal Service or other hand delivery method contain postmarks by the date specified in this permit. Whole Effluent Testing (WET) and Pretreatment Annual Reports must be mailed to the WQ Submittals Center.</p> <p>Electronically: wq.submittals.mPCA@state.mn.us Include Water quality submittals form: www.pca.state.mn.us/sites/default/files/wq-wwprm7-71.docx</p> <p>Or by mail: Attention: WQ Submittals Center Minnesota Pollution Control Agency 520 Lafayette Road North St. Paul, MN 55155-4191. [Minn. R. 7001.0150, subp. 2(B), Minn. R. 7001.0150, subp. 3(H)]</p>

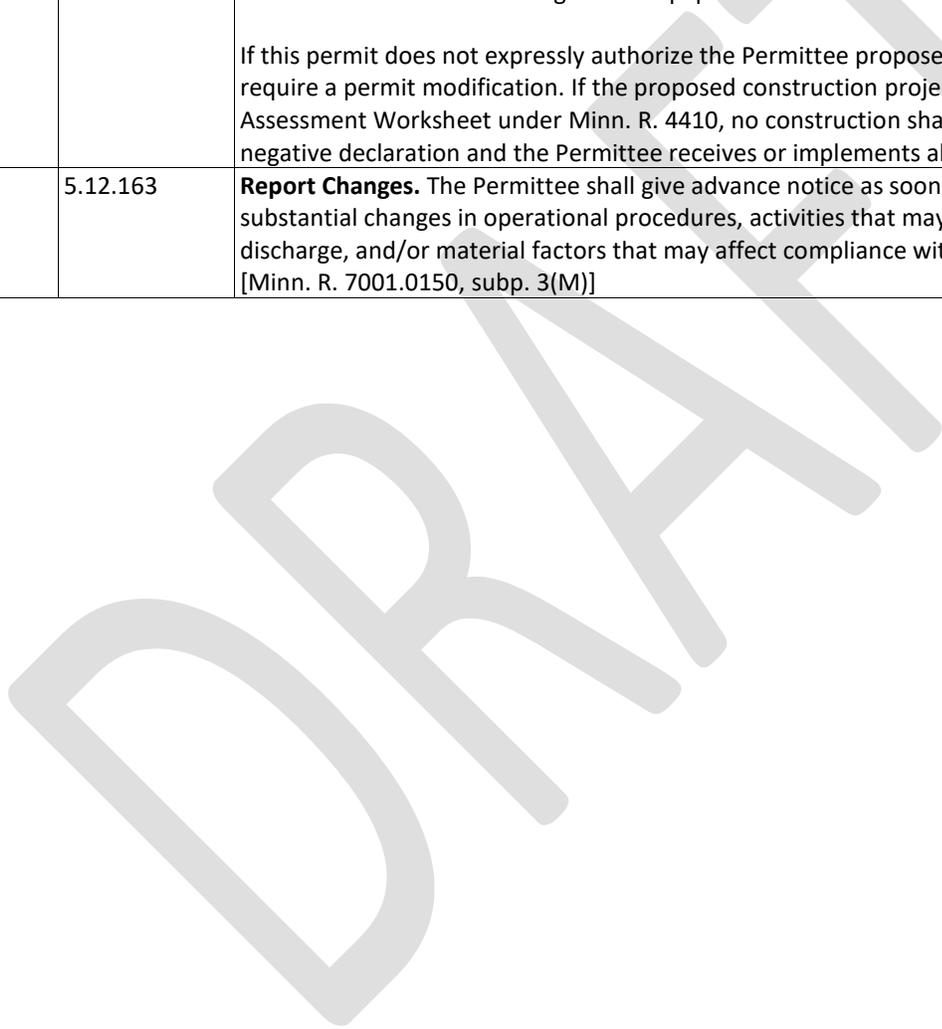
5.12.136	Incomplete or Incorrect Reports. The Permittee shall immediately submit an electronically amended report or eDMR to the MPCA upon discovery by the Permittee or notification by the MPCA that it has submitted an incomplete or incorrect report or eDMR. The amended report or eDMR shall contain the 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)]
5.12.137	Required Signatures. 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]
5.12.138	Reporting Limit (RL). The Permittee shall report monitoring results below the RL of a particular instrument as "<" 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 "< 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. Where sample values are less than the RL and the permit requires reporting of an average, the Permittee shall calculate the average as follows: A. If some values are less than (<) the RL, substitute zero for all non-detectable values to use in the average calculation; B. If all values are less than (<) the RL, calculate the average and report as < the RL average concentration; and C. To calculate a mass loading with a less than (<) the RL concentration, use the RL value in the calculation and then add the "<" to the product of the concentration and the volume. [Minn. R. 7001.0150, subp. 2(B)]
5.12.139	Records. 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)]
5.12.140	Confidential Information. 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]
5.12.141	Noncompliance and Enforcement. [Minn. R. 7001]
5.12.142	Subject to Enforcement Action and Penalties. 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)]
5.12.143	Criminal Activity. 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 & H), Minn. Stat. ch. 609.671, subd. 1]

5.12.144	Noncompliance Defense. 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)]
5.12.145	Effluent Violations. 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. 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. 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: A. A description of the event including volume, duration, monitoring results, and receiving waters; B. The cause of the event; C. The steps taken to reduce, eliminate, and prevent reoccurrence of the event; D. The exact dates and times of the event; and E. Steps taken to reduce any adverse impact resulting from the event. [Minn. R. 7001.0150, subp. 3(K)]
5.12.146	Upset Defense. 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: A. The specific cause of the upset; B. That the upset was unintentional; 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; D. That at the time of the upset the facility was being properly operated; E. That the Permittee properly notified the Commissioner of the upset in accordance with Minn. R. 7001.1090, subp. 1(I); and F. That the Permittee implemented the remedial measures required by Minn. R. 7001.0150, subp. 3(J). [Minn. R. 7001.1090]
5.12.147	Release. [Minn. R. 7001]
5.12.148	Unauthorized Releases of Wastewater Prohibited. 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]

5.12.149	<p>Discovery of a Release. Upon discovery of a release, the Permittee shall:</p> <ul style="list-style-type: none">A. Take all reasonable steps to immediately end the release;B. Notify the Minnesota Department of Public Safety Duty Officer at 1(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 1(800)657-3864 or (651)296-6300 (metro area); andC. 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]
5.12.150	<p>Sampling of a Release. Upon discovery of a release, the Permittee shall:</p> <ul style="list-style-type: none">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; andB. Submit the sampling results on the Release Report located on the MPCA's website at https://www.pca.state.mn.us/water/discharge-monitoring-reports. <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>
5.12.151	<p>Bypass. [Minn. R. 7001]</p>
5.12.152	<p>Anticipated Bypass. 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">A. The proposed date and estimated duration of the bypass;B. The alternatives to bypassing; andC. 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 & 3), Minn. R. 7001.1090, subp. 1(J)]

5.12.153	<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> <p>A. Take all reasonable steps to immediately end the bypass;</p> <p>B. Notify the Minnesota Department of Public Safety Duty Officer at 1(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 1(800)657-3864 or (651)296-6300 (metro area);</p> <p>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</p> <p>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)i, Minn. R. 7001.1090, subp. 1(K), Minn. Stat. ch. 115.061]</p>
5.12.154	Operation and Maintenance. [Minn. R. 7001]
5.12.155	<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>
5.12.156	<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>
5.12.157	Solids Management. 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]
5.12.158	Scheduled Maintenance. 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)]
5.12.159	Control Tests. 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)]
5.12.160	Changes to the Facility or Permit. [Minn. R. 7001]

5.12.161	<p>Permit Modifications. 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>
5.12.162	<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>
5.12.163	<p>Report Changes. 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>



5.12.164	<p>Chemical Additives. 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 website at https://www.pca.state.mn.us/water/wastewater-additional-guidance-and-information:</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>
5.12.165	<p>MPCA Initiated Permit Modification, Suspension, or Revocation. 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>
5.12.166	<p>Total Maximum Daily Load (TMDL) Impacts. 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>
5.12.167	<p>Permit Transfer. 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>

5.12.168	<p>Facility Closure. 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>
5.12.169	<p>Permit Reissuance. 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>
5.12.170	<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">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;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; orC. 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]

6. Submittal action summary

SD 004	Effluent To Surface Water	
		Surface Discharge: Class A Minor Facility Effluent Requirements
	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)]
WS 001	Influent Waste	
		Waste Stream: Class A Minor Facility Influent Requirements
	6.2.1	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)]
MN0025445	Hector WWTP	
		Compliance Schedule Requirements
	6.3.1	For the first year after permit reissuance, the Permittee will continue to try to optimize their biological treatment process for Phosphorus. At the end of the first year following permit reissuance, the Permittee shall submit a report to the MPCA detailing the WWTP's ability to consistently meet the final limit for Phosphorus. submit a report : Due by 365 days after permit issuance. submit a report : Due by 365 days after permit issuance. [Minn. R. 7001]
	6.3.2	By 4 years after permit reissuance, the Permittee shall initiate operation of the upgraded facility and notify the MPCA when the project is complete. The Permittee shall attain compliance with the final phosphorus effluent limit as soon as possible, but no later than 30 days prior to permit expiration. attain compliance with final effluent limits : Due 30 calendar days before 09/30/2021. [Minn. R. 7001]
		Mercury Minimization Plan
	6.4.3	The Permittee shall submit a mercury pollutant minimization plan : Due by 180 days prior to permit expiration. [Minn. R. 7001]
		Pretreatment: Undelegated Requirements
	6.5.4	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]
		Biosolids: Land Application
	6.6.5	The Permittee shall submit a biosolids annual report : Due annually, by the 31st of December on a form provided by or approved by the MPCA. The report shall include the requirements in Minnesota Rules, part 7041.1700. [Minn. R. 7041.1700]
		Total Facility Requirements (NPDES/SDS)
	6.7.6	Permit Reissuance. 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]

7. Limits and monitoring

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 004 Total Facility Discharge	Bicarbonates (HCO3)						Monitor only. calendar month maximum	milligrams per liter	once per month	24-Hour Flow Composite	Jan-Dec	
SD 004 Total Facility Discharge	BOD, Carbonaceous 05 Day (20 Deg C)	37.4 calendar month average	74.8 maximum calendar week average	kilograms per day		15 calendar month average	30 maximum calendar week average	milligrams per liter	twice per week	24-Hour Flow Composite	Jan-Dec	
SD 004 Total Facility Discharge	BOD, Carbonaceous 05 Day (20 Deg C) Percent Removal				85 minimum calendar month average			percent	once per month	Calculation	Jan-Dec	
SD 004 Total Facility Discharge	Calcium, Total (as Ca)						Monitor only. calendar month maximum	milligrams per liter	once per month	24-Hour Flow Composite	Jan-Dec	
SD 004 Total Facility Discharge	Chloride, Total					447 calendar month average	743 daily maximum	milligrams per liter	twice per month	24-Hour Flow Composite	Jan, Mar, May, Jul, Sep, Nov	
SD 004 Total Facility Discharge	Fecal Coliform, MPN or Membrane Filter 44.5C					200 calendar month geometric mean		organisms per 100 milliliter	twice per week	Grab	May-Oct	
SD 004 Total Facility 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	
SD 004 Total Facility Discharge	Hardness, Calcium & Magnesium, Calculated (as CaCO3)						Monitor only. calendar month maximum	milligrams per liter	once per month	24-Hour Flow Composite	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 004 Total Facility Discharge	Magnesium, Total (as Mg)						Monitor only. calendar month maximum	milligrams per liter	once per month	24-Hour Flow Composite	Jan-Dec	
SD 004 Total Facility Discharge	Mercury, Dissolved (as Hg)						Monitor only. calendar month maximum	nanograms per liter	once per month	Grab	Jul	
SD 004 Total Facility Discharge	Mercury, Total (as Hg)						Monitor only. calendar month maximum	nanograms per liter	once per month	Grab	Jul	
SD 004 Total Facility Discharge	Nitrite Plus Nitrate, Total (as N)					Monitor only. calendar quarter average		milligrams per liter	once per quarter	24-Hour Flow Composite	Mar, Jun, Sep, Dec	
SD 004 Total Facility Discharge	Nitrogen, Ammonia, Total (as N)					Monitor only. calendar month average		milligrams per liter	once per month	24-Hour Flow Composite	Mar, Sep	
SD 004 Total Facility Discharge	Nitrogen, Kjeldahl, Total					Monitor only. calendar quarter average		milligrams per liter	once per quarter	24-Hour Flow Composite	Mar, Jun, Sep, Dec	
SD 004 Total Facility Discharge	Nitrogen, Total (as N)					Monitor only. calendar quarter average		milligrams per liter	once per quarter	Calculation	Mar, Jun, Sep, Dec	
SD 004 Total Facility Discharge	Oxygen, Dissolved				Monitor only. calendar month minimum			milligrams per liter	once per week	Grab	Jan-Dec	
SD 004 Total Facility	pH				6.0 calendar month		9.0 calendar month	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	
Discharge					minimum		maximum					
SD 004 Total Facility Discharge Phase 1	Phosphorus, Total (as P)		Monitor only. calendar month total	kilograms per month		Monitor only. calendar month average		milligrams per liter	once per week	24-Hour Flow Composite	Jan-Dec	
SD 004 Total Facility Discharge Phase 2	Phosphorus, Total (as P)		Monitor only. calendar month total	kilograms per month		Monitor only. calendar month average		milligrams per liter	once per week	24-Hour Flow Composite	Oct-May	
SD 004 Total Facility Discharge Phase 2	Phosphorus, Total (as P)		Monitor only. calendar month total	kilograms per month		0.63 calendar month average		milligrams per liter	once per week	24-Hour Flow Composite	Jun-Sep	
SD 004 Total Facility Discharge	Phosphorus, Total (as P)		912 12-month moving total	kilograms per year					once per month	Calculation	Jan-Dec	
SD 004 Total Facility Discharge	Potassium, Total (as K)						Monitor only. calendar month maximum	milligrams per liter	once per month	24-Hour Flow Composite	Jan-Dec	
SD 004 Total Facility Discharge	Sodium, Total (as Na)						Monitor only. calendar month maximum	milligrams per liter	once per month	24-Hour Flow Composite	Jan-Dec	
SD 004 Total Facility Discharge	Solids, Total Dissolved (TDS)						Monitor only. calendar month maximum	milligrams per liter	once per month	24-Hour Flow Composite	Jan-Dec	
SD 004 Total Facility Discharge	Solids, Total Suspended (TSS)	74.8 calendar month average	112.3 maximum calendar week average	kilograms per day		30 calendar month average	45 maximum calendar week average	milligrams per liter	twice per week	24-Hour Flow Composite	Jan-Dec	
SD 004 Total Facility	Solids, Total Suspended (TSS)				85 minimum calendar			percent	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	
Discharge	Percent Removal				month average							
SD 004 Total Facility Discharge	Solids, Total Suspended (TSS), grab (Mercury)						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Jul	
SD 004 Total Facility Discharge	Specific Conductance						Monitor only. calendar month maximum	micromhos per cm	once per month	Measurement	Jan-Dec	
SD 004 Total Facility Discharge	Sulfate, Total (as SO4)						Monitor only. calendar month maximum	milligrams per liter	once per month	24-Hour Flow Composite	Jan-Dec	
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	twice per week	24-Hour Flow Composite	Jan-Dec	
WS 001 Influent Waste Stream	Nitrite Plus Nitrate, Total (as N)					Monitor only. calendar quarter average		milligrams per liter	once per quarter	24-Hour Flow Composite	Mar, Jun, Sep, Dec	
WS 001 Influent Waste Stream	Nitrogen, Kjeldahl, Total					Monitor only. calendar quarter average		milligrams per liter	once per quarter	24-Hour Flow Composite	Mar, Jun, Sep, Dec	
WS 001 Influent Waste Stream	Nitrogen, Total (as N)					Monitor only. calendar quarter average		milligrams per liter	once per quarter	Calculation	Mar, Jun, Sep, Dec	
WS 001 Influent Waste Stream	pH				Monitor only. calendar month minimum		Monitor only. 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	
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	twice per week	24-Hour Flow Composite	Jan-Dec	