

West Central Environmental Consultants, LLC /  
SET Engineering, Inc.

We wish to post comments on behalf of an involved party, NEC/Dayforce US Inc. The comments and a marked-up copy of the draft permit document are provided for your consideration. Thank you.



A Division of SET Environmental, Inc.  
5005 Boone Avenue North  
New Hope, MN 55428

May 22, 2024

Nancy Heskett, Environmental Specialist  
Municipal Wastewater Section  
Minnesota Pollution Control Agency  
7381 Airport View Dr SW  
Rochester, MN 55902

Subject: **Comments: Draft Permit MN0021440 for Spring Grove Wastewater Treatment Plant**  
**Public Comment Period: March 25, 2024 through May 24, 2024**  
NEC/Dayforce Remediation of TCE contamination, MPCA ID SA0000168

Dear Ms. Heskett:

Northern Engraving Corporation and Dayforce US, Inc. (NEC/Dayforce) submit the following comments in response to Minnesota Pollution Control Agency's (MPCA) Public Notice of intent to reissue the above-referenced permit.

The City of Spring Grove submitted a reapplication for a permit under the National Pollution Discharge Elimination System and State Disposal System (NPDES/SDS) program administered by MPCA for the continued operation of a municipal wastewater treatment plant. The draft permit follows the format of MPCA's NPDES/SDS General Permit (MN00221440) and includes regulation of a discharge to surface water of contaminated groundwater pumped from one municipal well, CW-1. The pumping at CW-1 is part of the remediation activities required by MPCA and undertaken by NEC/Dayforce for reduction of trichloroethylene (TCE) contamination in groundwater in the vicinity of Spring Grove. NEC/Dayforce are providing these comments and proposed revisions to the NPDES permit as interested parties for the CW-1 discharge to surface water.

As detailed below, the correct sampling location for the point of compliance for TCE is after the water flows over the MPCA-approved treatment system, i.e., the cascade aeration system, and the permit should be revised to appropriately identify this location as the point of compliance.

#### **BACKGROUND**

NEC/Dayforce (including predecessor companies) have been conducting certain response actions to the presence of TCE contamination in groundwater since 1986. The continuous pumping of CW-1 as an element of remediation activities began in 1989. The water from CW-1 is directed into a subsurface storm sewer line that daylights in Roverud Park.

NEC/Dayforce's remediation work has included installation of a cascade aeration system to treat the contaminated groundwater. The cascade aerator system consists of a concrete stair-step structure at the storm sewer pipe, which dissipates the storm sewer pipe's flow into a riprap-lined hillside channel that leads downslope to an

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City of Spring Grove Wastewater Treatment Plant

intermittent stream channel. This cascade system was upgraded in 2020 to include an engineered roughened concrete channel instead of riprap, constructed using Flexamat brand pillowed concrete/geogrid composite to provide improved treatment via aeration of the dissolved TCE prior to discharge into the intermittent stream. Flexamat was also installed at the intermittent stream, a natural surface water feature, to reduce erosion caused by high-flow storm events scouring the channel. The natural watercourse is an unnamed tributary of North Bear Creek, and its channel continues downslope to the south. The City of Spring Grove discharges its treated municipal wastewater to this watercourse approximately ½ mile downstream of the NEC/Dayforce cascade system discharge.

The treatment of the pumped water from CW-1 by this cascade aeration system is part of the MPCA-approved remediation activities to address the TCE contamination, and this approval is documented in that certain Agreement Between the Minnesota Pollution Control Agency, Ceridian Corporation and Northern Engraving Corporation, for Completion of Remedial Action, dated May 19, 2003.

The previous NPDES permit was issued to the City on August 12, 2008 and renewed via MPCA administrative continuance. This 2008 permit included surface water discharge stations, including (now terminated) lift station bypasses, SD004 for the wastewater treatment plant outfall, and SD005 for the discharge of water from CW-1. Early correspondence regarding the surface water (Unnamed Creek to North Bear Creek) referred to it as a “dry run” though the channel has been provided continuous flow due to the CW-1 discharge to the upstream treatment channel that discharges into this watercourse. The 2008 NPDES permit stated:

The city of Spring Grove may discharge ground water (SD00S) at a rate of 200 gallons per minute (288,000 gallons per day) from city Well No. 1 to an unnamed creek to North Bear Creek to the Upper Iowa River. From the city well, the discharge is first piped via an underground four-inch pipe to the city catch basin No. 2; the discharge then flows via a 12-inch storm sewer pipe to the storm sewer outfall, which has a cascade system followed by course stone riprap, to accelerate the removal of volatile organics. The pump out activity is part of a gradient control/monitoring well system, designed to restore the contaminated ground water to drinking water standards.

Attached Figure 1 illustrates key features of the NEC/Dayforce-designed remedial pumping of CW-1, from supply well through the storm sewer components mentioned, and discharge via pipe to the treatment works (cascade system) prior to its discharge into surface water.

**COMMENTS PROVIDED**

NEC/Dayforce submit the following comments to the draft permit and requested revisions to the draft permit before final issuance. The comments are intended to support compliance with the permit requirements that pertain to the discharge of contaminated water from pumping CW-1. These comments consist of this narrative, supporting figures and photographs, and a copy of the draft permit in Word document format, with requested revisions identified using “Track Changes” and highlighted to facilitate your efficient review of the proposed edits.

**SD005 (CW-1 raw water)**

As described in the draft permit, SD005 is the water being pumped from CW-1, prior to any conveyance or treatment. NEC/Dayforce agrees this is an appropriate interim sample location because the TCE concentration of the water from CW-1 is needed for reporting to the MPCA Remediation Program. TCE concentration data is used as part of the remediation process to calculate total TCE removal, to evaluate the contaminant plume geometry, and to assess TCE concentration trends over time.

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**Proposed Additional Monitoring Station**

NEC/Dayforce requests the permit be revised to add an additional sampling location, identified in the attached documents as "SD005a." The actual naming of this proposed additional monitoring station is left to the MPCA's discretion and experience.

The location of this additional sampling station is at the end of the treatment cascade system channel, just upstream of the point where it discharges into the natural, intermittent stream channel. The coordinates of this station would be (UTM NAD83) as follows: X: 609965.470386 Y: 4823767.759141

NEC/Dayforce submits that this sampling location is the appropriate location for the TCE compliance monitoring point and that the permit be revised accordingly. Proposed sampling location SD005a is at the downgradient end of the engineered system constructed and approved by the MPCA for treating the TCE-containing water from CW-1; this station would be prior to its entry into the surface water feature, Unnamed Creek tributary to North Bear Creek. NEC/Dayforce has invested in the construction and upgrade of the cascade because it provides treatment of the groundwater discharged from CW-1. Using this point for TCE compliance monitoring is consistent with the original purpose and intent of this constructed channel.

The constructed channel resembles a stream when CW-1 is pumping. It is, however, a purpose-built treatment structure conveying water to the unnamed creek where the discharge to surface water occurs. Recently, CW-1 experienced a catastrophic pump and motor failure, and pumping did not occur from February 20 to February 29, 2024. This provided an opportunity to inspect the cascade system, which was totally "dry," and the unnamed creek bed was dry to a point approximately 0.2 miles downstream from the cascade system discharge. Water could be seen entering the intermittent stream channel from tile lines and snow melt, so the channel had a small flow once it reached station SD004 by the wastewater treatment plant. The photographs provided with these comments help to illustrate this.

Using SD005a as the TCE compliance point is consistent with NPDES practices and as set forth in US EPA's NPDES Permit Writer's Manual. Section 8.1.2 of the Manual addresses the appropriate monitoring location for a discharge. Since the NPDES regulations do not prescribe exact monitoring locations, the permit writer is responsible for determining the most appropriate monitoring location(s) and indicating the location(s) in the permit. Ultimately, the compliance sampling point must be representative of the discharge. See 40 CFR § 122.41(j)(1).

Section 8.1.2.3 of the Manual requires that the effluent monitoring location of the final effluent be established at a discharge point "*after all treatment processes.*" (Emphasis added). Effluent monitoring locations should be established to "*provide a representative sample of the effluent being discharged into the receiving water.*" (Emphasis added). More importantly, the Manual provides that compliance monitoring locations "*should be established after all industrial uses and treatment processes.*" (Emphasis added). Here, that location is after the treatment cascade system channel, at proposed sampling location SD005a.

The interpretation set forth in US EPA's NPDES Permit Writer's Manual is supported by the MPCA direction in section 13 of the transmittal form (MPCA # wq-wwprm7-03). The MPCA instructions for section 13 state "The location of the surface water discharge is defined as the location where a wastewater discharge enters a surface water (not where the pipe leaves the wastewater facility structure)," which is consistent with Clean Water Act practices and the US EPA's NPDES Permit Writer's Manual.

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Therefore, NEC/Dayforce requests the permit be revised to identify SD005a as the TCE compliance monitoring location for meeting the TCE concentration limit for remediation activities undertaken by NEC/Dayforce. Monitoring the discharge of water treated via cascade aeration generated by the pumping of CW-1 as part of the MPCA-approved Response Action is the appropriate point of compliance for the TCE limit.

To ensure compliance with the Federal and State requirements, and to prevent any sampling bias from dilution or mixing with other waste streams, NEC/Dayforce agrees that the permit should also be revised to require that the sample from SD005a only be collected when there are no other flows present in the storm sewer that could dilute the CW-1 waste stream, or introduce other contaminants.

**Other Requested Changes**

The draft permit with tracked changes provided herein shows the above-requested changes as well as other additional revisions to clarify the requirements associated with the CW-1 water discharge. These are offered to provide consistency with the above-mentioned clarification of SD005 and proposed additional monitoring station SD005a. Further, additional revisions are included that reflect the current MPCA Remediation Program reporting requirement of quarterly updates and Annual Monitoring Report submittal.

Lastly, all references to “Ceridian” in the permit should be replaced with “Dayforce.” As previously reported to the MPCA, Ceridian recently went through a corporate rebranding and the legal name of Ceridian HCM, Inc. is now “Dayforce US, Inc.” As such, we have made this change in the draft permit.

On behalf of NEC/Dayforce, we appreciate your consideration of these comments. If you have any questions regarding these comments, you may contact me at [scarlson@wcec.com](mailto:scarlson@wcec.com).

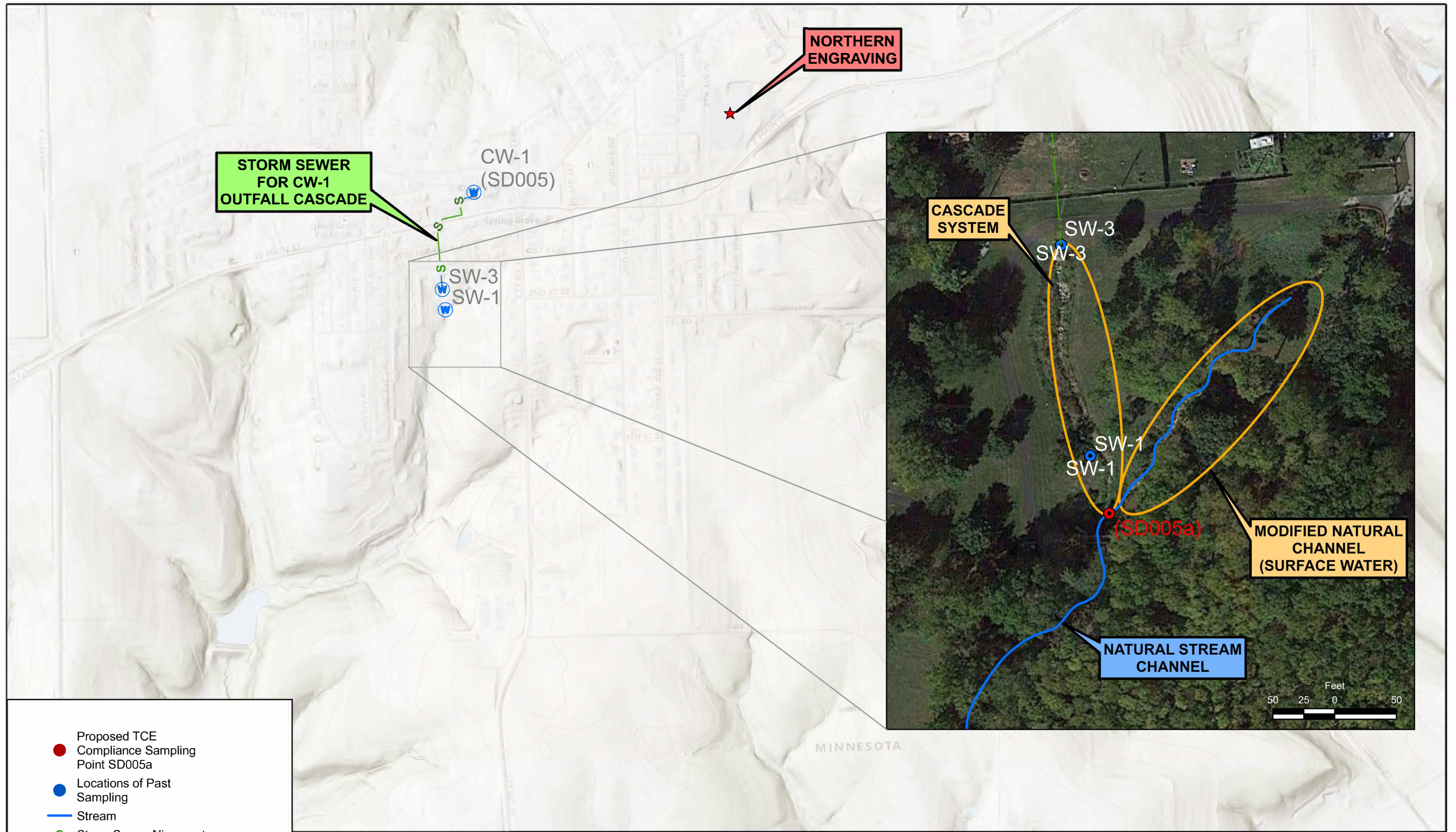
Sincerely,

**WEST CENTRAL ENVIRONMENTAL CONSULTANTS, LLC**

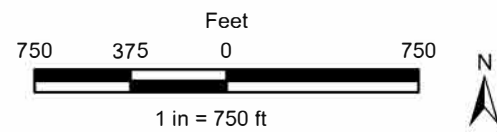


Steve Carlson  
Senior Project Manager

- Enclosures:
1. Figure 1
  2. Photographs 1-9
  3. Requested changes to draft permit in “track-changes” mode



- Proposed TCE Compliance Sampling Point SD005a
- Locations of Past Sampling
- Stream
- Storm Sewer Alignment




**Note:**

## CASCADE SYSTEM AND SURFACE WATER DISCHARGE

NEC/Dayforce TCE Remediation Project  
Spring Grove, MN 55974

DRAWN BY: CH  
DATE: 04/01/2024  
SCALE: 1:262



**FIGURE 1**

PROJECT NUMBER: 24-15455-30

IMAGE SOURCE: Google Imagery



PHOTO NO. 1: View from storm sewer outfall (SW-3) facing south during cascade channel construction in 2020. The surface water (un-named stream) is beyond the far end of the flexamat-lined flow channel, past the trees and upstream of the bridge in the background.



Mar 12, 2024 15:00:09  
 15T 609950 4823825  
 155 1st Street Northwest  
 Spring Grove  
 Houston County  
 Minnesota

PHOTO NO. 2: View of the cascade channel in 2024, photo was taken from near SW-3 and facing downslope along the aeration cascade system.

**PHOTOGRAPHS:**  
**Comments on Draft NPDES Permit,**  
**Spring Grove Wastewater Treatment Facility**  
**MN0021440: Spring Grove, Minnesota**

DATE: May, 2024 | SCALE: N/A

PROJECT NO: 2311-0854





PHOTO NO. 3: View of water from pumping CW-1 entering the cascade aeration channel at sampling location SW-3.

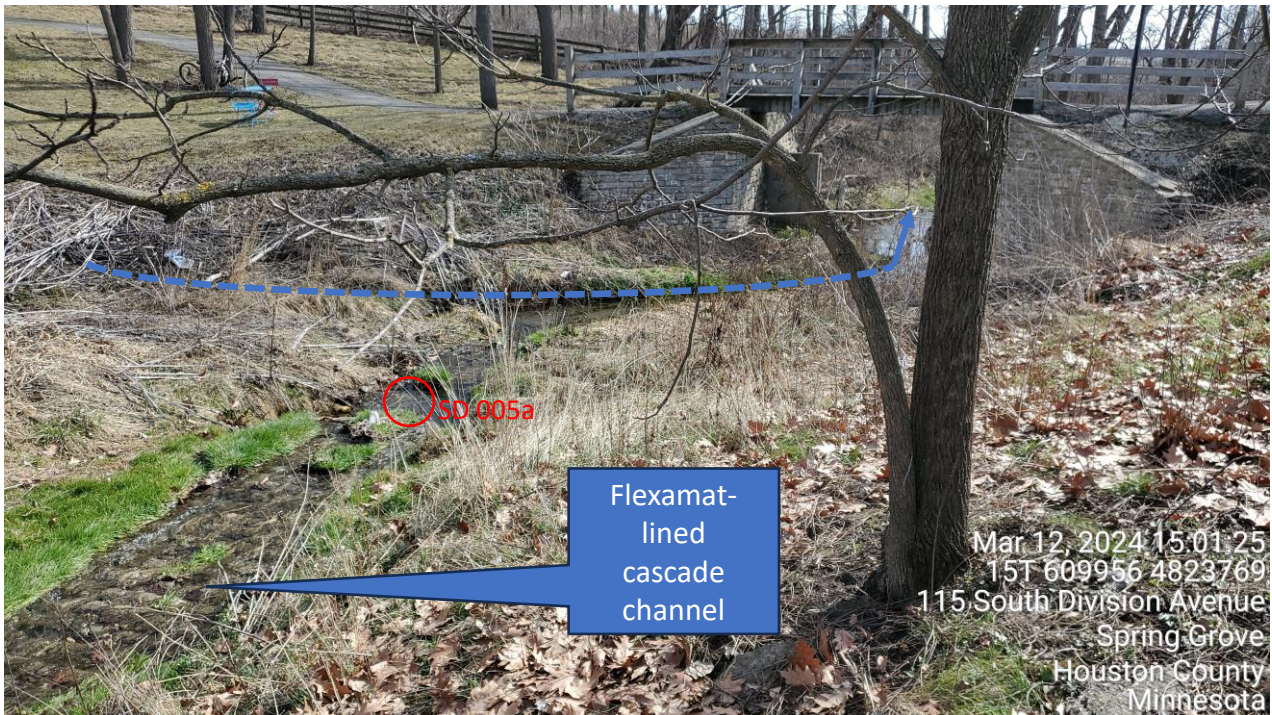


PHOTO NO. 4: Photo facing south, taken at base of cascade aeration channel just before it discharges to the natural stream channel (dashed line) which would flow from left to right in this picture. The proposed sampling station SD 005a is depicted. This photo was taken just upstream of a recreational trail bridge crossing the channel.

**PHOTOGRAPHS:**  
**Comments on Draft NPDES Permit,**  
**Spring Grove Wastewater Treatment Facility**  
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PROJECT NO: 2311-0854







PHOTO NO. 5: Alternate view of the cascade aeration system discharge into the un-named stream channel, tributary to North Bear Creek. The natural intermittent stream would flow down from the background, toward the left of this photo. Station SD 005a is depicted.

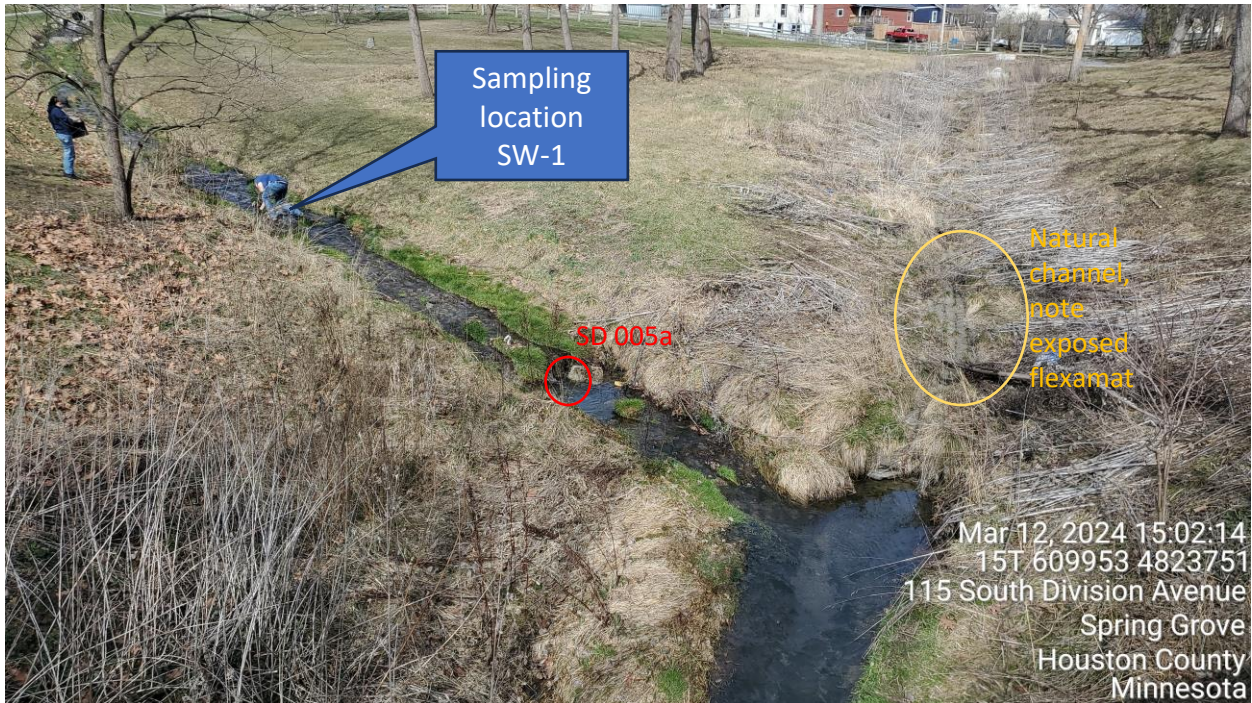


PHOTO NO. 6: View of station SD 005a taken from the trail bridge. The storm sewer outlet is visible at the far upper left of photo, the sampling team is collecting a sample from existing cascade system sample location SW-1. Note the natural stream channel was protected with Flexamat in the past.

**PHOTOGRAPHS:**  
**Comments on Draft NPDES Permit,**  
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PHOTO NO. 7, top: Inspection of the CW-1 storm sewer outfall and cascade aeration system was conducted February 27, 2024 during a period when CW-1 was not pumping due to failure of the motor and pump stack.



PHOTO NO. 8, middle: Without flow coming from CW-1, there was no flow exiting the storm sewer and the cascade aeration channel dried up.

The channel was in good condition.



PHOTO NO. 9, bottom: Photo view faces upstream from a point just downstream of the trail bridge.

Observations made along the natural stream channel indicated the stream was dry for a reach of approximately 1000 feet downstream of the bridge, at which point snow melt and small hillside seeps contributed some water to the stream channel.

**PHOTOGRAPHS:**  
**Comments on Draft NPDES Permit,**  
**Spring Grove Wastewater Treatment Facility**  
**MN0021440: Spring Grove, Minnesota**

DATE: May, 2024 | SCALE: N/A

PROJECT NO: 2311-0854

**WCECSET**  
 ENVIRONMENTAL CONSULTANTS **Engineering**

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

**MN0021440**

**Permittee:** City of Spring Grove  
**Facility name:** Spring Grove Wastewater Treatment Facility  
**Receiving water:** Unnamed creek - Class 7, 3, 4A, 4B, 5, 6 water  
**City:** Spring Grove **County:** Houston  
**Issuance date:** To be determined (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 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 Kimman  
Supervisor  
Southeast/Southwest Regional Permit  
Municipal Division

**Submit eDMRs**

Submit 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 WQ reports electronically to:**

[wq.submittals.mPCA@state.mn.us](mailto:wq.submittals.mPCA@state.mn.us)  
Include *Water quality submittals form*:  
<https://www.pca.state.mn.us/sites/default/files/wq-wwprm7-71.docx>

**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/business-with-us/discharge-monitoring-reports>

For specific permit requirements, contact your compliance staff:

<https://www.pca.state.mn.us/business-with-us/wastewater-compliance-and-enforcement-staff>

**Wastewater Permit Program general questions, contact:**

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

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DRAFT

## 1. Permitted facility description

The Spring Grove WWTP facility (facility) is located at 500 1st Ave SW, Spring Grove, Minnesota 55974, Houston County.

### Existing Facility

The existing Facility has a continuous discharge from SD 004 to an unnamed creek tributary to North Bear Creek. The treatment plant is a class C facility.

The facility is designed to treat:

- an average wet-weather (AWW) flow of 0.378 million gallons per day (MGD);
- five-day carbonaceous biochemical oxygen demand (CBOD<sub>5</sub>) of 394 pounds per day (lb/day); and
- total suspended solids (TSS) of 508 lb/day.

The facility consists of two lift stations, bar screen, two primary clarifiers, trickling filter, two secondary clarifiers, chlorine contact tank, aerobic digester, and biosolids holding tank. There are three bypass points that are locked and manually controlled.

The SD 005 discharge is a result of contaminated groundwater being pumped out of the city's old drinking water supply well (City well No. 1). This water is pre-treated via cascade aeration and discharged to an unnamed creek tributary to North Bear Creek.

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.

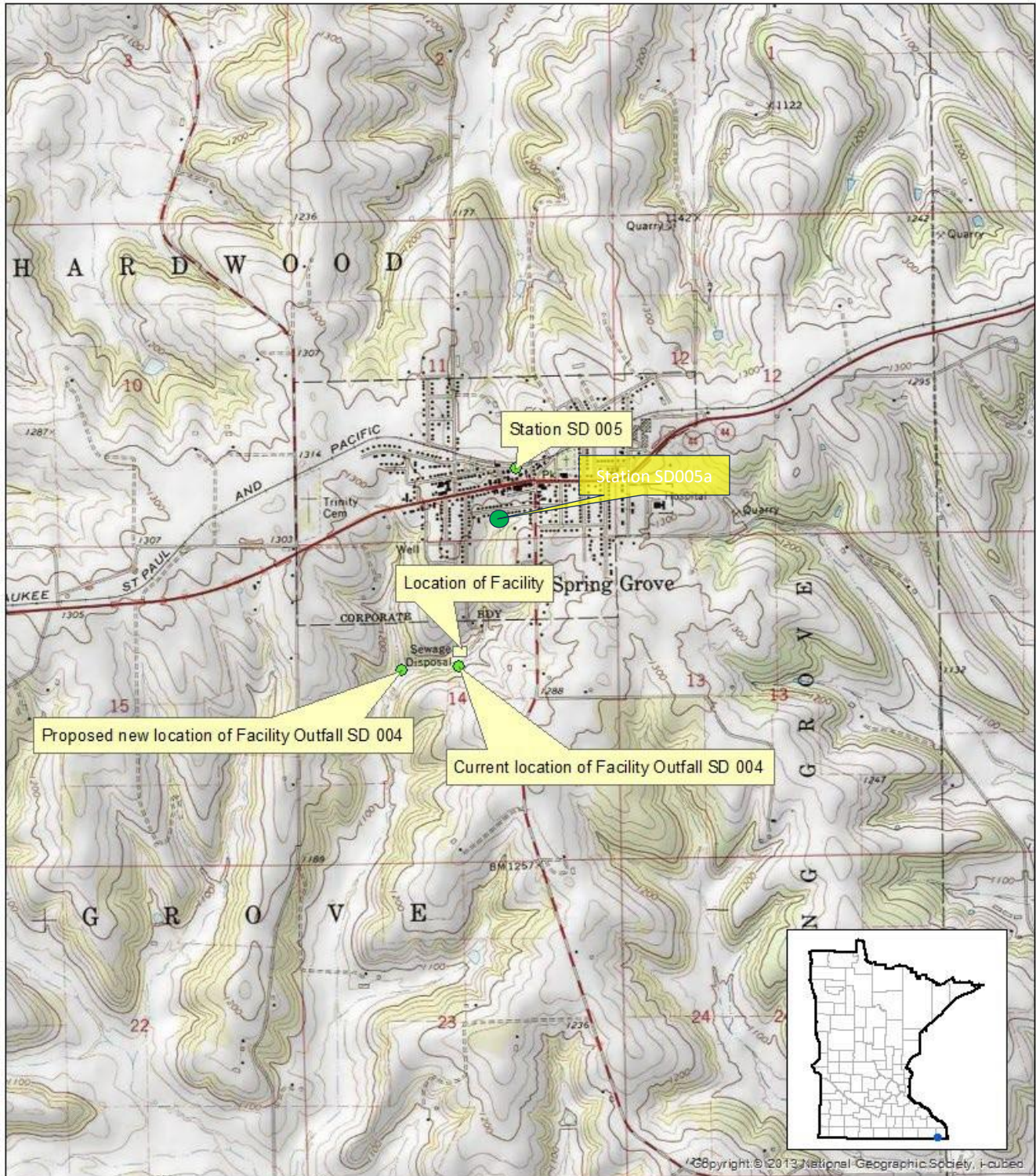
This Permit also complies with Minn. R. 7053.0275 regarding anti-backsliding.

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.

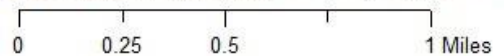
## 2. Location map of permitted facility

### Topographic Map of Permitted Facility

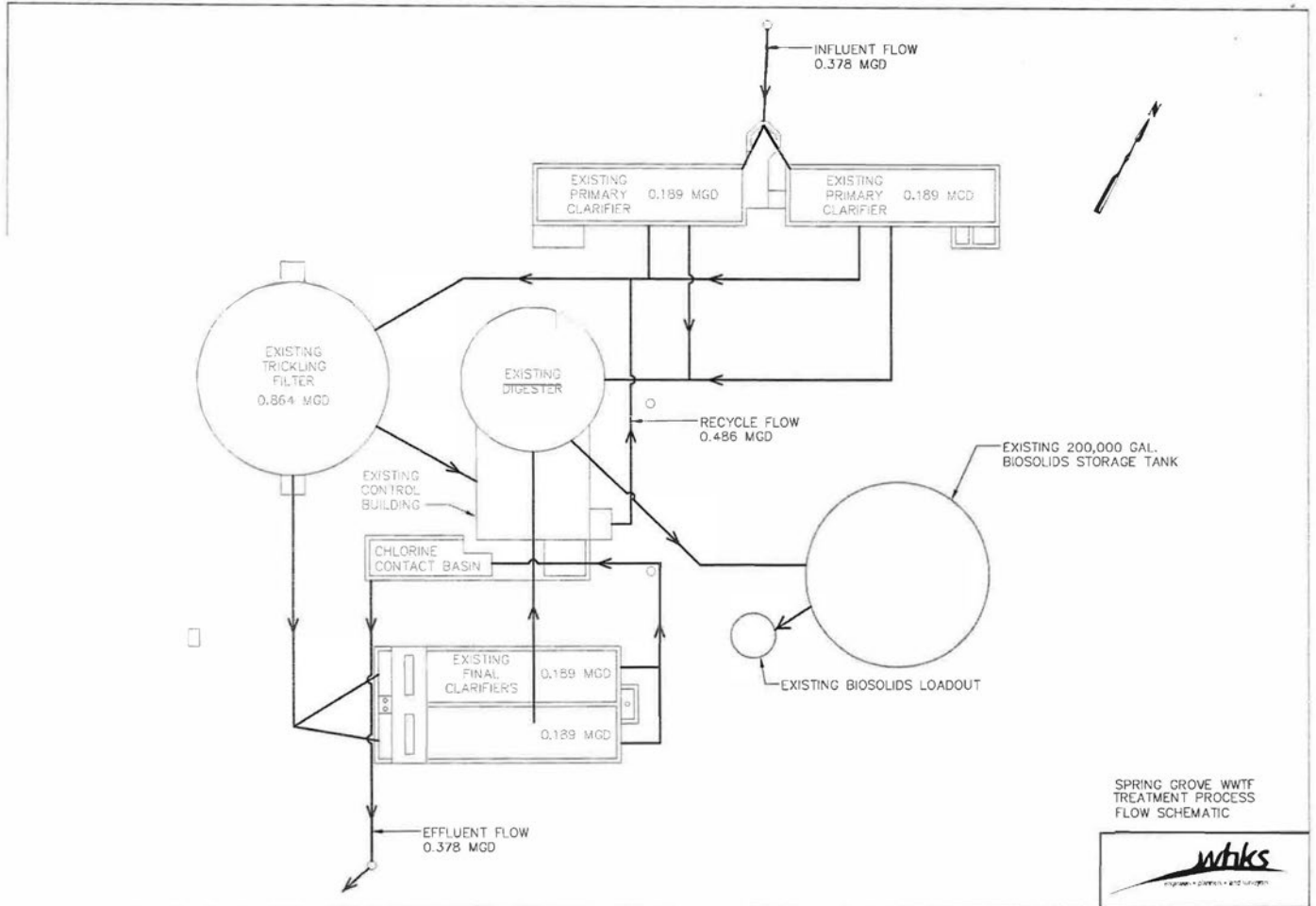
MN0021440: Spring Grove Wastewater Treatment Facility  
T101N, R7W, Section 14  
Spring Grove, Houston County, Minnesota



Map produced by: MPCA Staff, 1/10/2023  
Scale: 1:15,783,890



3. Flow diagram



4. Summary of stations and station locations

Station	Type of station	Local name	PLS location
SD 004	Effluent To Surface Water	Main Discharge	T101N, R07W, S14, SE Quarter of the NW Quarter
SD 005	Effluent To Surface Water	Discharge From Pump House Well	T101N, R07W, S11, SW Quarter of the SE Quarter
SD 005a	Effluent To Surface Water	Cascade Discharge to Surface Water	T101N, R07W, S11, SW ¼ of the SE ¼
WS 001	Influent Waste	Influent Waste Stream	T101N, R07W, S14, SE Quarter of the NW Quarter

DRAFT



5. Permit requirements

SD 004	Effluent To Surface Water	
<b>Surface Discharge: Class C Minor 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		Sampling Location. [Minn. R. 7001.0150, Subp. 2(B)]
5.1.3		<p>Samples for Station SD 004 shall be taken at a point representative of effluent flow from the facility.</p> <p>Upon completion of the extended outfall, effluent flow samples for total residual chlorine (TRC) shall be sampled at a point where the new outfall discharges to the receiving water. [Minn. R. 7001.0150, Subp. 2(B)]</p>
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)]
<b>Facility Specific Requirements</b>		
5.2.5		Parameters that have a monitoring frequency of once per quarter and an effective period of Mar, Jun, Sep, Dec may be taken any time during that calendar quarter but must be reported on the designated month's DMR (e.g. the sample for the first calendar quarter of Jan-Mar will be reported on the March DMR). [Minn. R. 7001]
5.2.6		This permit contains phases for limits and monitoring requirements. The limit for Total Residual Chlorine for this station is indicated as "Phase 3" of the permit and will become effective as soon as possible, but no later than 760 days after permit expiration. See the "Compliance Schedule - Total Residual Chlorine Effluent Limit" section of the permit for more detailed information. [Minn. R. 7001]
SD 005 and SD 005a	Effluent To Surface Water	
<b>Facility Specific Limit and Monitoring Requirements</b>		
5.3.1		The Permittee shall submit a quarterly DMR: Due by 21 days after the end of each calendar quarter following permit issuance. [Minn. R. 7001.0150, Subp. 2(B)]
<b>Facility Specific Requirements</b>		
5.4.2		Samples for station SD 005 shall be taken at the well house prior to any influence from stormwater or other sources of clear water. [Minn. R. 7001] These samples shall be used to assess groundwater TCE plume stability, TCE removal over time via pumping CW-1, and TCE reduction via treatment.
5.4.3		Samples for Station SD 005a shall be taken at the point in the pre-treatment cascade just prior to its discharge to surface water, the unnamed creek tributary to North Bear Creek. Sampling at station SD 005a shall only be collected when there are no other flows present in the storm water that could dilute the CW-1 waste stream or introduce other contaminants.
5.4.4		This permit contains phases for limits and monitoring requirements. The limit for TCE for SD 005a is indicated as "Phase 2" of the permit (continuing into Phase 3) and will become effective as soon as possible, but no later than 5 years after permit issuance. See the "Compliance Schedule - Compliance Schedule for TCE Limits at station SD 005 and SD 005a" section of the permit for more detailed information. [Minn. R. 7001]
WS 001	Influent Waste	

		<b>Waste Stream: Class C Facility Influent 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	Sampling Location. [Minn. R. 7001.0150, Subp. 2(B)]
	5.5.3	Samples for Station WS 001 shall be taken at a point representative of total influent flow to the system. [Minn. R. 7001.0150, Subp. 2(B)]
	5.5.4	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)]
<b>MN0021440</b>	Spring Grove WWTP	
		<b>Surface Discharge Station General Requirements</b>
	5.6.1	<b>Surface Discharge Prohibitions.</b> [Minn. R. 7001]
	5.6.2	Floating solids or visible foam shall not be discharged in other than trace amounts. [Minn. R. 7001]
	5.6.3	Oil or other substances shall not be discharged in amounts that create a visible color film. [Minn. R. 7001]
	5.6.4	The Permittee shall install and maintain outlet protection measures at the discharge stations to prevent erosion. [Minn. R. 7001]
	5.6.5	<b>Winter Sampling Conditions.</b> [Minn. R. 7001]
	5.6.6	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]
	5.6.7	<b>Chlorine Addition Requirements.</b> [Minn. R. 7001]
	5.6.8	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.  Upon completion of the extended outfall, Effluent total residual chlorine TRC samples shall be taken where the outfall discharges to the receiving water. [Minn. R. 7001]
	5.6.9	<b>Sampling Collection and Reporting.</b> [Minn. R. 7001]
	5.6.10	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]
	5.6.11	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)]
	5.6.12	<b>Mercury Limits and Monitoring Requirements.</b> [Minn. R. 7001]
	5.6.13	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]
	5.6.14	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]
5.6.15	Effluent monitoring for mercury with a frequency of once per month and an effective period of Jul are to be taken once during the month of July. [Minn. R. 7001]
5.6.16	<b>Nitrogen Limits and Monitoring Requirements.</b> [Minn. R. 7001]
5.6.17	"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]
	<b>Waste Stream Station General Requirements</b>
5.7.18	<b>Sampling Collection and Reporting.</b> [Minn. R. 7001]
5.7.19	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)]
5.7.20	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]
5.7.21	<b>Nitrogen Limits and Monitoring Requirements.</b> [Minn. R. 7001]
5.7.22	"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>Compliance Schedule Requirements</b>
5.8.23	<b>Compliance Schedule - Total Nitrogen and Total Residual Chlorine Limits.</b> [Minn. R. 7001]
5.8.24	A new Total Nitrogen limit of 10.0 mg/L, calendar month average, and Total Residual Chlorine limit of 0.038 mg/L, daily maximum, have been assigned for the City of Spring Grove. The City of Spring Grove has determined that the current facility and its operations will not comply with the recommended final effluent limits for Total Nitrogen and Total Residual Chlorine from discharge station SD 004 at permit issuance. To meet these limits, the Permittee is proposing to construct an extended outfall pipe to discharge beyond the "losing" reach of the receiving water and to allow adequate time and distance for chlorine to dissipate from the discharge before entering the receiving stream. A compliance schedule is included in this permit to accommodate the time required to plan, secure funding, and construct the extended outfall.  The Total Nitrogen limit is necessary to protect groundwater and the local drinking water supply given the potential for treated effluent to enter the groundwater supply via the losing stream reach of the receiving water. Upon completion of the outfall extension, the proposed limit for Total Nitrogen will no longer be required as the discharge will be entering the receiving water downstream of the "losing" stream reach. However, the proposed limit for Total Residual Chlorine will still be required to be met according to the proposed schedule below. [Minn. R. 7001]
5.8.25	The Permittee shall complete the proposed outfall extension as soon as possible, but no later than four years after permit issuance. Completion of the proposed extended outfall beyond the known losing stream reach, shall negate the need for a Total Nitrogen Limit and is considered an alternative to attaining compliance with the recommended Total Nitrogen Effluent Limit if completed as soon as possible, but no later than four years after permit issuance. [Minn. R. 7001]
5.8.26	The Permittee shall meet a final daily maximum effluent limit of 0.038 mg/L for Total Residual Chlorine at station SD 004 as soon as possible, but no later than 760 days after permit expiration (identified as Phase 3 in the permit). attain compliance with final effluent limits: Due 760 calendar days after Permit Issuance Date. [Minn. R. 7001]
5.8.27	Definitions. [Minn. R. 7001]

5.8.28	"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]
5.8.29	"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]
5.8.30	"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]
5.8.31	<b>Outfall Extension Schedule to address proposed Total Nitrogen and Total Residual Chlorine Limits.</b> [Minn. R. 7001]
5.8.32	The Permittee shall submit a construction progress report: Due by one year after permit issuance. This design and construction progress report shall detail the progress of the design and construction of the outfall project. [Minn. R. 7001]
5.8.33	The Permittee shall submit plans and specifications: Due by two years after permit issuance. Plans and Specifications shall include the outfall extension. [Minn. R. 7001]
5.8.34	The Permittee shall submit a progress report detailing funding and progress of the outfall construction project, by three years after permit issuance. submit a progress report: Due by three years after permit issuance. [Minn. R. 7001]
5.8.35	The Permittee shall submit a copy of the executed Notice to Proceed: Due by 14 days after its execution. [Minn. R. 7001]
5.8.36	The Permittee shall complete the outfall extension and initiate operation as soon as possible, but no later than four years after permit issuance. initiate operation: Due by four years after permit issuance. [Minn. R. 7001]
5.8.37	The Permittee shall submit notice of initiation of operation: Due by 14 days after the actual initiation of operation date. [Minn. R. 7001]
5.8.38	<b>Total Residual Chlorine Effluent Limit.</b> [Minn. R. 7001]
5.8.39	<p>Within 30 days after completion of construction of the outfall extension, the Permittee shall determine whether the final limit of 0.038 mg/L Total Residual Chlorine is being met. If the Permittee has attained compliance with the final limit, they shall notify the MPCA in writing that they have attained compliance with the final limit and it will become effective in the permit.</p> <p>All samples for Total Residual Chlorine monitoring shall be taken at a point where the new outfall discharges to the receiving water and analyzed within 15 minutes of sample collection. [Minn. R. 7001]</p>
5.8.40	If the Permittee has not attained compliance with the final Total Residual Chlorine effluent limit, the Permittee shall submit Plans and Specifications for dechlorination/UV equipment by 1 year after initiation of operation (5 years after permit issuance). [Minn. R. 7001]
5.8.41	If required, the Permittee shall submit a progress report detailing the progress of installation of the dechlorination/UV disinfection equipment, due by 6 years after permit issuance. [Minn. R. 7001]
5.8.42	If required, the Permittee shall complete construction of the dechlorination/UV equipment by three years after initiation of operation of the outfall extension (two years after permit expiration). [Minn. R. 7001]
5.8.43	If required, the Permittee shall submit notice of initiation of operation of the dechlorination/UV equipment by 14 days of initiation of operation. [Minn. R. 7001]
5.8.44	<p>The Permittee shall meet the final Total Residual Chlorine limit as soon as possible, but no later than 30 days after initiation of operation of the dechlorination/UV equipment (760 days after permit expiration).</p> <p>If at any time prior to the date the Permittee has determined they have met the final effluent limit for TRC, the Permittee shall notify the MPCA in writing and the final limit will become effective. [Minn. R. 7001]</p>
5.8.45	<b>Compliance Schedule for Trichloroethylene (TCE) Limits at station SD 005 and SD 005a.</b> [Minn. R. 7001]
5.8.46	Discharge station SD 005 authorizes the discharge of TCE contaminated groundwater from CW-1, a City owned well, into the Spring Grove storm sewer. Northern Engraving/Dayforce is required to remediate a

	contaminated groundwater plume located in the City of Spring Grove and is utilizing CW-1 to pump out the contaminated groundwater in an effort to control the contamination plume. [Minn. R. 7001]
5.8.47	Northern Engraving and Dayforce submitted a proposed Work Plan for Ground Water Withdrawal Change at Spring Grove Wells CW-1 and CW-3 to the MPCA, proposing a framework to decrease and ultimately stop groundwater pumping at CW-1 (Work Plan). The proposed Work Plan set forth a phased implementation schedule, with pumping rates decreasing at CW-1 every six months over the course of a two-year period. The Work Plan sets forth a goal of attaining full implementation by 2026. [Minn. R. 7001]
5.8.48	The Permittee shall meet a limit of 0.4 ug/L daily max limit for Trichloroethylene (TCE) at station SD 005a as soon as possible, but no later than five years after permit issuance (indicated as 'Phase 2' of the permit). [Minn. R. 7001]
5.8.49	Samples for TCE shall be taken at SD 005 prior to any influence from stormwater or other sources of clear water. [Minn. R. 7001] These samples are required for annual reporting to the MPCA Remediation Program.
5.8.50	The Permittee shall submit an annual report: Due by one year after permit issuance. The Annual Report shall include an update on the approval and implementation of the Work Plan. [Minn. R. 7001]
5.8.51	The Permittee shall submit an annual report: Due by two years after permit issuance. The Annual Report shall include an update on the implementation of the Work Plan and cessation of pumping at CW-1. [Minn. R. 7001]
5.8.52	The Permittee shall submit an annual report: Due by three years after permit issuance. The Annual Report shall include an update of the implementation of the Work Plan and cessation of pumping at CW-1. If a discharge is still occurring at SD 005, the Final Annual Report shall include a discussion of the TCE treatment technology for the discharge, including analytical information on the treated effluent such that the Permittee may show that the system will meet the permitted TCE limit. [Minn. R. 7001]
5.8.53	If required, the Permittee shall submit Plans and Specifications for facility upgrades to meet the TCE limit at SD 005a, due four years after permit issuance. [Minn. R. 7001]
5.8.54	The Permittee shall meet the final effluent limit for TCE as soon as possible, but no later than 5 years after permit issuance, if a discharge is still occurring from CW-1. [Minn. R. 7001]
5.8.55	If the Permittee or Northern Engraving wishes to apply for coverage under the MNG79000 general permit, or under an individual industrial wastewater discharge permit, an application must be submitted to the MPCA for coverage. Once coverage has been obtained, the Permittee shall submit an application for modification of this NPDES permit to remove the TCE sampling and limit requirements from the permit. [Minn. R. 7001]
5.8.56	If the Permittee proposes changes in operation or ownership of CW-1, the Permittee shall notify the MPCA and submit an application for permit modification. [Minn. R. 7001]
	<b>Mercury Minimization Plan</b>
5.9.61	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]
5.9.62	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]
5.9.63	The Permittee shall submit a mercury pollutant minimization plan: Due by 180 days prior to permit expiration. [Minn. R. 7001]
5.9.64	At a minimum, the MMP shall include the following:  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.

	<p>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.</p> <p>c. An evaluation of past and present WWTF operations to determine those operating procedures that maximize mercury removal.</p> <p>d. A summary of any mercury reduction activities implemented during the last five years.</p> <p>e. A plan to implement mercury management and reduction measures during the next five years. [Minn. R. 7001]</p>
	<b>Phosphorus Management Plan - Streamlined</b>
5.10.65	The Permittee shall submit a phosphorus management plan: Due by 180 days after permit issuance. [Minn. R. 7001]
5.10.66	The Permittee shall prepare and submit a Streamlined Phosphorus Management Plan (PMP) to the MPCA. The intent of the Streamlined PMP is to help maintain previous improvements and conduct ongoing evaluations to determine possible source reduction measures, operational improvements, and minor wastewater treatment facility modifications that will reduce phosphorus loadings to the wastewater treatment facility. [Minn. R. 7001]
5.10.67	Immediately upon submittal to the MPCA, the Permittee shall implement the Streamlined PMP for the remainder of this permit. [Minn. R. 7001]
5.10.68	<p>The Streamlined PMP shall include, but not be limited to, an evaluation of and a plan to implement the following over the permit term:</p> <p>A. Wastewater treatment facility influent reduction measures:</p> <ul style="list-style-type: none"> <li>i. Reevaluate the phosphorus reduction potential of users;</li> <li>ii. Determine which sources have the opportunity for further reduction of phosphorus (e.g., industrial, commercial, institutional, municipal, and others);</li> <li>iii. Determine whether known sources (e.g., restaurant and food preparation) have adopted or can adopt phosphorus minimization and water conservation plans; and</li> <li>iv. Reevaluate whether or not local limits on influent sources of excessive phosphorus are needed. This includes an evaluation of whether any existing local limits are appropriate.</li> </ul> <p>B. Wastewater treatment facility effluent reduction measures:</p> <ul style="list-style-type: none"> <li>i. Continued optimization of existing treatment processes; and</li> <li>ii. An assessment of side stream loading and reductions options. [Minn. R. 7001]</li> </ul>
5.10.69	PMP guidance can be found on the MPCA's website at: <a href="https://www.pca.state.mn.us/business-with-us/phosphorus-management-plans">https://www.pca.state.mn.us/business-with-us/phosphorus-management-plans</a> or by contacting the compliance staff using the link provided on the cover page of this permit. [Minn. R. 7001]
	<b>Mechanical System</b>
5.11.70	<b>Bypass Structures.</b> [Minn. R. 7001]
5.11.71	All structures capable of bypassing the treatment system shall be manually controlled and kept locked at all times. [Minn. R. 7001.0030]
5.11.72	<b>Sanitary Sewer Extension Permit.</b> [Minn. R. 7001]
5.11.73	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]
5.11.74	<b>Operator Certification.</b> [Minn. R. 7001]
5.11.75	The Permittee shall provide a Class C 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]

5.11.76	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]
5.11.77	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:  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]
5.11.78	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>
5.12.79	<b>Definitions.</b> [Minn. R. 7049]
5.12.80	"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]
5.12.81	"Significant Industrial User" (SIU) means any industrial user that:  A. Is subject to Categorical Pretreatment Standards, as defined in Minn. R. 7049.0120, subp. 5; B. Discharges 25,000 gallons per day or more of process wastewater, excluding sanitary, noncontact cooling, or boiler blowdown wastewater, to the POTW; C. Contributes a process wastewater containing five percent or more of the flow or load of any pollutant of concern to the POTW; or 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]
5.12.82	<b>Permittee Responsibility to Control Users.</b> [Minn. R. 7049]
5.12.83	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]
5.12.84	The Permittee shall prohibit the discharge of the following to its POTW:  A. Pollutants that create a fire or explosion hazard, including any discharge with a flash point less than 60 degrees C (140 degrees F); B. Pollutants that will 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. 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; 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); F. Petroleum oil, nonbiodegradable cutting oil, or products of mineral oil origin in amounts that would cause interference or pass-through; and G. Pollutants that produce toxic gases, vapors, or fumes that may endanger the health or safety of workers. [Minn. R. 7049]

5.12.85	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]
5.12.86	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]
5.12.87	<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>
5.12.88	<b>Control of Significant Industrial Users.</b> [Minn. R. 7049]
5.12.89	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]
5.12.90	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]
5.12.91	<b>Monitoring of Significant Industrial Users.</b> [Minn. R. 7049]
5.12.92	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]
5.12.93	<b>Reporting and Notifications.</b> [Minn. R. 7049]
5.12.94	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]
5.12.95	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]
5.12.96	The Permittee shall submit the Pretreatment Annual Report to the MPCA, WQ Submittals Center. [Minn. R. 7049]
5.12.97	<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>



5.12.98	<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> <p>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 section. [Minn. R. 7049]</p>																				
5.12.99	<p>In addition, the Permittee shall, upon request, submit the following to the MPCA for approval:</p> <p>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]</p>																				
5.12.100	<p>The Permittee shall notify the MPCA of any of its industrial users that may be subject to National Categorical Pretreatment Standards. [Minn. R. 7049]</p>																				
5.12.101	<p>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]</p>																				
	<p><b>Biosolids: Land Application</b></p>																				
5.13.102	<p><b>Authorization.</b> [Minn. R. 7041]</p>																				
5.13.103	<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>																				
5.13.104	<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. 7041.0600, Minn. R. 7041.0800]</p>																				
5.13.105	<p><b>Compliance Responsibility.</b> [Minn. R. 7041]</p>																				
5.13.106	<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>																				
5.13.107	<p><b>Notification Requirements.</b> [Minn. R. 7041]</p>																				
5.13.108	<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>																				
5.13.109	<p><b>Pollutant Limits.</b> [Minn. R. 7041]</p>																				
5.13.110	<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> <table border="1" data-bbox="375 1627 649 1942"> <thead> <tr> <th colspan="2">Pollutant in units mg/kg</th> </tr> </thead> <tbody> <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> </tbody> </table>	Pollutant in units mg/kg		Arsenic	75	Cadmium	85	Copper	4300	Lead	840	Mercury	57	Molybdenum	75	Nickel	420	Selenium	100	Zinc	7500
Pollutant in units mg/kg																					
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	<p>Table 2 Cumulative Loading Limits</p> <p>Pollutant in units lbs/acre</p> <table> <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></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	37	Cadmium	35	Copper	1339	Lead	268	Mercury	15	Molybdenum*		Nickel	375	Selenium	89	Zinc	2500
Arsenic	37																		
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Zinc	2500																		
5.13.111	<b>Pathogen and Vector Attraction Reduction.</b> [Minn. R. 7041]																		
5.13.112	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]																		
5.13.113	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]																		
5.13.114	<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>																		
5.13.115	<b>Management Practices.</b> [Minn. R. 7041]																		
5.13.116	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]																		
5.13.117	<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>																		

5.13.118	<b>Monitoring Requirements.</b> [Minn. R. 7041]															
5.13.119	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]															
5.13.120	<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> <table border="1" data-bbox="375 604 1534 840"> <thead> <tr> <th>Biosolids Applied* (metric tons/365-day period)</th> <th>Biosolids Applied* (tons/365-day period)</th> <th>Frequency (times/365-day period)</th> </tr> </thead> <tbody> <tr> <td>&gt;0 but &lt;290</td> <td>&gt;0 but &lt;320</td> <td>1</td> </tr> <tr> <td>&gt;=290 but &lt;1,500</td> <td>&gt;=320 but &lt;1,650</td> <td>4</td> </tr> <tr> <td>&gt;=1,500 but &lt;15,000</td> <td>&gt;=1,650 but &lt;16,500</td> <td>6</td> </tr> <tr> <td>&gt;=15,000</td> <td>&gt;=16,500</td> <td>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. 7041.1300]</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
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>=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														
5.13.121	<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>															
5.13.122	<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> <table border="1" data-bbox="375 1381 1534 1707"> <thead> <tr> <th>Parameter in units mg/kg (dry weight basis)</th> </tr> </thead> <tbody> <tr> <td>Arsenic</td> </tr> <tr> <td>Cadmium</td> </tr> <tr> <td>Copper</td> </tr> <tr> <td>Lead</td> </tr> <tr> <td>Mercury</td> </tr> <tr> <td>Molybdenum</td> </tr> <tr> <td>Nickel</td> </tr> <tr> <td>Selenium</td> </tr> <tr> <td>Zinc</td> </tr> </tbody> </table> <p>38 43 2150 420 28 38 210 50 3750. [Minn. R. 7041]</p>	Parameter in units mg/kg (dry weight basis)	Arsenic	Cadmium	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Zinc					
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5.13.123	<b>Records.</b> [Minn. R. 7041]															
5.13.124	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]															
5.13.125	<b>Reporting Requirements.</b> [Minn. R. 7041]															
5.13.126	The Permittee shall submit a biosolids annual report: Due annually, by the 31st of December. [Minn. R. 7041.1700]															

5.13.127	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]
5.13.128	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]
5.13.129	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]
5.13.130	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]
5.13.131	The Permittee shall submit the Biosolids Annual Report to the MPCA, WQ Submittals Center. [Minn. R. 7041]
5.13.132	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>
5.14.133	<b>General Requirements.</b> [Minn. R. 7001]
5.14.134	Total Residual Chlorine (TRC) shall be analyzed immediately. This means within 15 minutes or less of sample collection. [40 CFR 136.6]
5.14.135	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]
5.14.136	A RL of 0.04 mg/L is considered in compliance with the 0.038 mg/L limit. [Minn. R. 7001]
5.14.137	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]
5.14.138	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]
5.14.139	<b>Compliance with a Daily Maximum Limit.</b> [Minn. R. 7001]
5.14.140	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]
5.14.141	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]
5.14.142	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]

	<b>Total Facility Requirements (NPDES/SDS)</b>
5.15.143	<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]
5.15.144	<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]
5.15.145	<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)]
5.15.146	<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)]
5.15.147	<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]
5.15.148	<b>Property Rights.</b> This permit does not convey a property right or an exclusive privilege. [Minn. R. 7001.0150, subp. 3(C)]
5.15.149	<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)]
5.15.150	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)]
5.15.151	<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)]
5.15.152	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)]
5.15.153	<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]
5.15.154	<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]
5.15.155	<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)]
5.15.156	<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)]

5.15.157	<b>Sampling.</b> [Minn. R. 7001]
5.15.158	<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)]
5.15.159	<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)]
5.15.160	<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]
5.15.161	<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]
5.15.162	<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)]
5.15.163	<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: A. The exact place, date, and time of the sample or measurement; B. The date and time 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; and E. The results of the analysis. [Minn. R. 7001.0150, subp. 2(C)]
5.15.164	<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.  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.  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)]
5.15.165	<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.  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>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>
5.15.166	<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>
5.15.167	<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>
5.15.168	<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>
5.15.169	<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>
5.15.170	<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>
5.15.171	<p><b>Noncompliance and Enforcement.</b> [Minn. R. 7001]</p>
5.15.172	<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>
5.15.173	<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</p>

	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]
5.15.174	<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)]
5.15.175	<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>
5.15.176	<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>
5.15.177	<b>Release.</b> [Minn. R. 7001]
5.15.178	<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]
5.15.179	<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> </ul>



	<p>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]</p>
5.15.180	<p><b>Sampling of a Release.</b> Upon discovery of a release, the Permittee shall:</p> <p>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</p> <p>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>.</p> <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>
5.15.181	<p><b>Bypass.</b> [Minn. R. 7001]</p>
5.15.182	<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> <p>A. The proposed date and estimated duration of the bypass;</p> <p>B. The alternatives to bypassing; and</p> <p>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)]</p>
5.15.183	<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 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);</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>
5.15.184	<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</p>

	<p>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>
5.15.185	<b>Operation and Maintenance.</b> [Minn. R. 7001]
5.15.186	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)]
5.15.187	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)]
5.15.188	<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]
5.15.189	<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)]
5.15.190	<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)]
5.15.191	<b>Changes to the Facility or Permit.</b> [Minn. R. 7001]
5.15.192	<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>
5.15.193	<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</p>

	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]
5.15.194	<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)]
5.15.195	<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>
5.15.196	<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]
5.15.197	<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)]
5.15.198	<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)]
5.15.199	<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>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>
5.15.200	<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>
5.15.201	<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

SD 004	Effluent To Surface Water	
		<b>Surface Discharge: Class C Minor 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>SD 005</b>	Effluent of CW-1	An annual monitoring report shall be submitted to MPCA Remediation Program 60 days after the end of each calendar year. Permittee may delegate this report to another involved party.
<b>SD 005a</b>	Effluent To Surface Water	Quarterly monitoring, with report due 21 days after the end of each calendar quarter.
		<b>Facility Specific Limit and Monitoring Requirements</b>
	6.2.1	The Permittee shall submit a quarterly DMR: Due by 21 days after the end of each calendar quarter following permit issuance. [Minn. R. 7001.0150, Subp. 2(B)]
<b>WS 001</b>	Influent Waste	
		<b>Waste Stream: Class C Facility Influent Requirements</b>
	6.3.1	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)]
<b>MN0021440</b>	Spring Grove WWTP	
		<b>Compliance Schedule Requirements</b>
	6.4.1	The Permittee shall meet a final daily maximum effluent limit of 0.038 mg/L for Total Residual Chlorine at station SD 004 as soon as possible, but no later than 760 days after permit expiration (identified as Phase 3 in the permit). attain compliance with final effluent limits: Due 760 calendar days after Permit Issuance Date. [Minn. R. 7001]
	6.4.2	The Permittee shall submit a construction progress report: Due by one year after permit issuance. This design and construction progress report shall detail the progress of the design and construction of the outfall project. [Minn. R. 7001]
	6.4.3	The Permittee shall submit plans and specifications: Due by two years after permit issuance. Plans and Specifications shall include the outfall extension. [Minn. R. 7001]
	6.4.4	The Permittee shall submit a progress report detailing funding and progress of the outfall construction project, by three years after permit issuance. submit a progress report: Due by three years after permit issuance. [Minn. R. 7001]
	6.4.5	The Permittee shall complete the outfall extension and initiate operation as soon as possible, but no later than four years after permit issuance. initiate operation: Due by four years after permit issuance. [Minn. R. 7001]
	6.4.6	The Permittee shall submit notice of initiation of operation: Due by 14 days after the actual initiation of operation date. [Minn. R. 7001]
	6.4.7	The Permittee shall submit an annual report: Due by one year after permit issuance. The Annual Report shall include an update on the approval and implementation of the Work Plan. [Minn. R. 7001]
	6.4.8	The Permittee shall submit an annual report: Due by two years after permit issuance. The Annual Report shall include an update on the implementation of the Work Plan and cessation of pumping at CW-1. [Minn. R. 7001]
	6.4.9	The Permittee shall submit an annual report: Due by three years after permit issuance. The Annual Report shall include an update of the implementation of the Work Plan and cessation of pumping at CW-1. If a discharge is still occurring at SD 005, the Final Annual Report shall include a discussion of the TCE treatment technology for the discharge, including analytical information on the treated

		effluent such that the Permittee may show that the system will meet the permitted TCE limit at SD 005a. [Minn. R. 7001]
		<b>Mercury Minimization Plan</b>
6.5.10		The Permittee shall submit a mercury pollutant minimization plan: Due by 180 days prior to permit expiration. [Minn. R. 7001]
		<b>Phosphorus Management Plan - Streamlined</b>
6.6.11		The Permittee shall submit a phosphorus management plan: Due by 180 days after permit issuance. [Minn. R. 7001]
		<b>Pretreatment: Nondelegated Requirements</b>
6.7.12		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>
6.8.13		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>
6.9.14		<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			
		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 Main Discharge	BOD, Carbonaceous 05 Day (20 Deg C)	35.7 calendar month average	57.2 maximum calendar week average	kilograms per day		25 calendar month average	40 maximum calendar week average	milligrams per liter	twice per month	24-Hour Flow Composite	Jan-Dec
SD 004 Main Discharge	BOD, Carbonaceous 05 Day (20 Deg C) Percent Removal				85 minimum calendar month average			percent	once per month	Calculation	Jan-Dec
SD 004 Main Discharge Phase 1	Chlorine, Total Residual						Monitor only. daily maximum	milligrams per liter	once per day	Grab	Mar-Nov
SD 004 Main Discharge Phase 2	Chlorine, Total Residual						Monitor only. daily maximum	milligrams per liter	once per day	Grab	Mar-Nov
SD 004 Main Discharge Phase 3	Chlorine, Total Residual						0.038 daily maximum	milligrams per liter	once per day	Grab	Mar-Nov
SD 004 Main Discharge	Fecal Coliform, MPN or Membrane Filter 44.5C					200 calendar month geometric mean		organisms per 100 milliliter	twice per month	Grab	Mar-Nov
SD 004 Main 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 Main Discharge	Mercury, Dissolved (as Hg)						Monitor only. calendar month maximum	nanograms per liter	once per month	Grab	Jul

Subject item	Parameter	Discharge limitations				Monitoring requirements					
		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 Main Discharge	Mercury, Total (as Hg)						Monitor only. calendar month maximum	nanograms per liter	once per month	Grab	Jul
SD 004 Main 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 Main 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 Main 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 Main Discharge	Nitrogen, Total (as N)						Monitor only. calendar quarter average	milligrams per liter	once per quarter	Calculation	Mar, Jun, Sep, Dec
SD 004 Main Discharge	Oxygen, Dissolved				Monitor only. calendar month minimum			milligrams per liter	once per day	Grab	Jan-Dec
SD 004 Main Discharge	pH				6.0 calendar month minimum		9.0 calendar month maximum	standard units	twice per month	Grab	Jan-Dec
SD 004 Main Discharge	Phosphorus, Total (as P)	Monitor only. calendar month average		kilograms per day			Monitor only. calendar month average	milligrams per liter	twice per month	24-Hour Flow Composite	Jan-Dec
SD 004 Main Discharge	Solids, Total Dissolved (TDS)						Monitor only. calendar month average	milligrams per liter	once per month	24-Hour Flow Composite	Mar, Sep



Subject item	Parameter	Discharge limitations						Monitoring requirements				
		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 Main Discharge	Solids, Total Suspended (TSS)	42.9 calendar month average	64.3 maximum calendar week average	kilograms per day		30 calendar month average	45 maximum calendar week average	milligrams per liter	twice per month	24-Hour Flow Composite	Jan-Dec	
SD 004 Main Discharge	Solids, Total Suspended (TSS) Percent Removal				85 minimum calendar month average			percent	once per month	Calculation	Jan-Dec	
SD 004 Main Discharge	Solids, Total Suspended (TSS), grab (Mercury)						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	Jul	
SD 005 Discharge From Pump House Well Phase 1	Trichloroethylene (TCE)						Monitor only. daily maximum	micrograms per liter	once per quarter	Grab	Jan-Dec	
SD 005a Discharge From Pump House Well Cascade Phase 2	Trichloroethylene (TCE)						0.4 daily maximum	micrograms per liter	once per quarter	Grab	Jan-Dec	
SD 005a Discharge From Pump House Well Cascade Phase 3	Trichloroethylene (TCE)						0.4 daily maximum	micrograms per liter	once per quarter	Grab	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 month	24-Hour Flow Composite	Jan-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

Subject item	Parameter	Discharge limitations				Monitoring requirements					
		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	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	twice per month	Grab	Jan-Dec
WS 001 Influent Waste Stream	Phosphorus, Total (as P)					Monitor only. calendar month average		milligrams per liter	twice per month	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 month	24-Hour Flow Composite	Jan-Dec