

State Disposal System

MN0040703

**Permittee:** City of Beardsley  
**Facility name:** Beardsley Wastewater Treatment Facility  
**City or Township:** Beardsley **County:** Big Stone  
**Issuance date:** TBD  
**Expiration date:** TBD

The state of Minnesota, on behalf of its citizens through the Minnesota Pollution Control Agency (MPCA), authorizes the Permittee to operate a disposal system at the facility named above 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*

Gene M. Soderbeck, P.E.  
Supervisor, Southwest Regional & SSTS Policy and Planning Unit  
SSTS Section  
Municipal Division

**Submit eDMRs**

Submit via the MPCA Online Services Portal at  
<https://netweb.pca.state.mn.us/private/>

**Questions on this permit?**

For eDMR and other permit reporting issues, contact:  
Jennifer Satnik, 651-757-2692

**Submit other WQ reports to:**

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

**For specific permit requirements please refer to:**

Paul Kimman, 507-476-4270

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

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

## Table of Contents

|  | Page |
|--|------|
| 1. Permitted facility description.....   | 3    |
| 2. Location map of permitted facility.....   | 4    |
| 3. Flow diagram.....   | 5    |
| 4. Summary of stations and station locations.....                                  | 5    |
| 5. Permit requirements.....  | 7    |
| 6. Submittal action summary.....   | 20   |
| 7. Limits and monitoring.....  | 22   |
| 8. Appendix 1. Spray Irrigation Site with Soil Monitoring Requirements: LA303..... | 25   |

DRAFT

## 1. Permitted facility description

The City of Beardsley (City) Wastewater Treatment Facility (Facility) is located at 111 Main Street South, Beardsley, Minnesota, Big Stone County.

This Class D Facility discharges from WS 002 to land via spray irrigation, and is designed to treat:

- An average wet weather (AWW) flow of 0.025 million gallons per day (MGD)
- 5-day carbonaceous biochemical oxygen demand (CBOD5) of 211 milligrams per liter (mg/)

The Facility consists of a collection system, lift station, force main, two-cell stabilization pond, and a 29.5-acre spray irrigation site (using a center-pivot irrigator). The two ponds have a surface area of 2.0 acres each at the mean water level, are designed to operate between two feet and six feet from pond bottom, and provide 210 days of storage at AWW flow. The spray irrigation site (station LA303) is split into a north half and a south half; wiregrass and alfalfa are grown and harvested on the north half, and an annual corn-soybean rotation on the south. Up to 0.41 million gallons per acre per year of effluent is permitted to be applied to this site.

The facility also has a 1.3-acre rapid infiltration basin for disposal of wastewater on an emergency basis only.

This Facility was originally described in plans and specifications dated 1971, and in an MPCA plans and specifications approval letter dated March 12, 1976. The Facility was upgraded in 1989-1991, by sealing two of the original three cells with a synthetic liner and replacing the spray irrigation equipment with a center pivot irrigation rig. This facility upgrade is described in plans and specifications dated April 10, 1987, in a revised plans and specifications approval letter dated December 20, 1988, in a proposal for spray irrigation equipment received from the City on December 5, 1990, and in an MPCA approval letter dated June 6, 1991.

2. Location map of permitted facility

**Location of Permitted Facility**

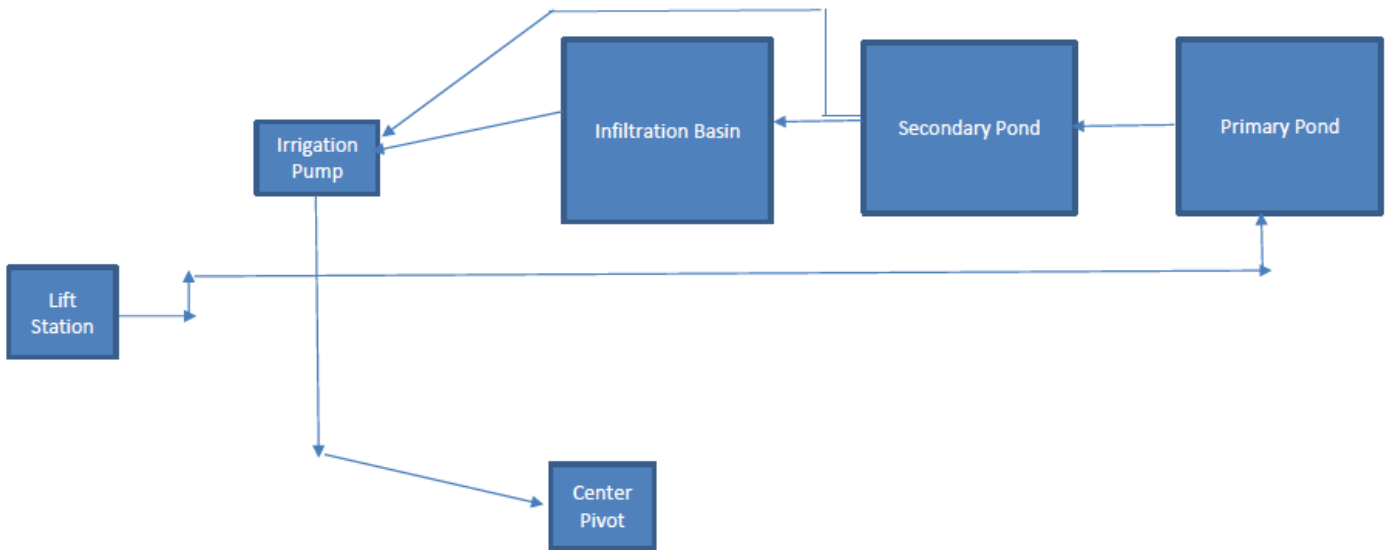
MN0040703 Beardsley Wastewater Treatment Facility  
T124N, R48W, Section 9  
Beardsley, Big Stone County, Minnesota



Map produced by: MPCA Staff, 4/5/2017  
Scale: 1:12,000

0 0.125 0.25 0.5 Miles

3. Flow diagram



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

| Station | Type of station                          | Local name                                     | PLS location                                   |
|---------|--|--|--|
| LA 303  | Application Site, Spray with Soils Tests | Crops and Soils, Spray Site #1 - 29.5 acres    | T124N, R48W, S17, NE Quarter of the NW Quarter |
| WS 001  | Influent Waste                           | Influent Waste Stream                          | T124N, R48W, S08, SE Quarter of the SW Quarter |
| WS 002  | Intermediate: WW to Land                 | Effluent to Spray Irrigation Site              | T124N, R48W, S09, NW Quarter of the SW Quarter |
| WS 003  | Intermediate: WW to Land                 | Emergency Overflow to Rapid Infiltration Basin | T124N, R48W, S09, NW Quarter of the SW Quarter |

DRAFT

5. Permit requirements

|           |                             |  |
|-----------|-----------------------------|--|
| WS 001    | Influent Waste              |  |
|           |                             | <b>Waste Stream: Spray Irrigation Influent 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                       | Samples for Station WS001 shall be taken at a point representative of the total influent flow to the facility. [Minn. R. 7001.0150, Subp. 2(B)]  |
|           | 5.1.4                       | The Permittee shall submit monitoring results in accordance with the limits and monitoring requirements for this station. If conditions are such that no sample can be acquired, the Permittee shall report "No Flow" or "No Discharge" on Discharge Monitoring Report (DMR) and shall add a Comments attachment to the DMR detailing why the sample was not collected. [Minn. R. 7001.0150, Subp. 2(B)] |
| WS 002    | Intermediate:<br>WW to Land |  |
|           |                             | <b>Waste Stream: Spray Irrigation to Spray Site Requirements</b>   |
|           | 5.2.1                       | The Permittee shall submit a monthly DMR : Due by 21 days after the end of each calendar month following permit issuance. [Minn. R. 7001.0150, Subp. 2(B)]   |
|           | 5.2.2                       | Sampling Location. [Minn. R. 7001.0150, Subp. 2(B)]  |
|           | 5.2.3                       | Samples for Station WS002 shall be taken from the sampling port on the irrigator supply pipe just before the main irrigation pump building. [Minn. R. 7001.0150, Subp. 2(B)]   |
|           | 5.2.4                       | 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)] |
| WS 003    | Intermediate:<br>WW to Land |  |
|           |                             | <b>Waste Stream: Rapid Infiltration Basin Influent Requirements</b>  |
|           | 5.3.1                       | The Permittee shall submit a monthly DMR : Due by 21 days after the end of each calendar month following permit issuance. [Minn. R. 7001.0150, Subp. 2(B)]   |
|           | 5.3.2                       | Sampling Location. [Minn. R. 7001.0150, Subp. 2(B)]  |
|           | 5.3.3                       | Samples for Station WS003 shall be taken at the control structure for the emergency overflow point to the infiltration basin. [Minn. R. 7001.0150, Subp. 2(B)]   |
|           | 5.3.4                       | The Permittee shall submit monitoring results in accordance with the limits and monitoring requirements for this station. If conditions are such that no sample can be acquired, the Permittee shall report "No Flow" or "No Discharge" on Discharge Monitoring Report (DMR) and shall add a Comments attachment to the DMR detailing why the sample was not collected. [Minn. R. 7001.0150, Subp. 2(B)] |
| MN0040703 | Beardsley<br>WWTP           |  |
|           |                             | <b>Waste Stream Station General Requirements</b>   |
|           | 5.4.1                       | Analysis Requirements<br><br>Specific conductance and pH analyses shall be conducted within 15 minutes of sample collection. [Minn. R. 7001]   |
|           | 5.4.2                       | Representative Samples<br><br>Grab and composite samples shall be collected at the designated monitoring station for each  |

|        |   |
|--------|---|
|        | individual waste stream station. [Minn. R. 7001]  |
|        | <b>Spray Irrigation</b>   |
| 5.5.3  | Authorization. [Minn. R. 7001]  |
| 5.5.4  | This chapter authorizes the Permittee to apply treated wastewater, as described in the 'Facility Description' section of this permit, to land application sites using a spray irrigation system. This activity is limited by the 'Limits and Monitoring' section of this permit, as well as the other terms and conditions of this permit. [Minn. R. 7001.0150, 3(E)]   |
| 5.5.5  | Wastewater Land Application System Management. [Minn. R. 7001]  |
| 5.5.6  | The wastewater flow to a land application site shall not have physical or chemical characteristics that prevent the proper operation of the land disposal system. The wastewater shall be free of material that interferes with the operation of nozzles, orifices or flow measurement devices. [Minn. R. 7001.0150, 3(F)]  |
| 5.5.7  | Wastewater shall be applied so as not to harm vegetation and so that prolonged saturated soil conditions do not develop due to the application. Wastewater shall not be applied during precipitation periods. [Minn. R. 7001.0150, 3(F)]  |
| 5.5.8  | An annual or perennial cover crop shall be maintained on the sprayfield during the entire application season unless otherwise approved by the MPCA. [Minn. R. 7001.0150, 3(F)]  |
| 5.5.9  | Wastewater shall not be applied after the cover crop has become dormant as a result of frost or below freezing temperatures. [Minn. R. 7001.0150, 3(F)]   |
| 5.5.10 | The Permittee shall prevent the surface runoff of wastewater, and precipitation runoff mixed with wastewater, from the land application site(s). The Permittee shall provide runoff collection and re-application systems as appropriate to prevent the discharge of surface runoff. [Minn. R. 7001.0150, 3(F)]   |
| 5.5.11 | If odor or aerosol drift resulting from operation of the wastewater disposal system creates a nuisance condition, the Permittee shall immediately take appropriate action to control or abate the odor or aerosol drift. The Permittee shall notify the MPCA of a nuisance condition within five (5) days of discovery. [Minn. R. 7001.0150, 3(F)]  |
| 5.5.12 | Tile inlets shall be capped during spray irrigation events. [Minn. R. 7001.0150, 3(F)]  |
| 5.5.13 | Best management practices shall be utilized for all crops. The Permittee shall utilize the facility's Operation and Maintenance Manual, the Sprayfield Management Plan, and the most recent recommendations of the Minnesota Extension Service, University of Minnesota, for managing nitrogen for crop production on irrigated soils. Soil test results shall also be utilized for fertilizer recommendations. [Minn. R. 7001.0150, 3(F)]  |
| 5.5.14 | If any changes are made to the facilities permitted spray irrigation site the Permittee is required to notify the MPCA and update the facilities sprayfield management plan. This plan shall be kept on-site and made available upon MPCA request. [Minn. R. 7001.0150, 3(F)]   |
| 5.5.15 | Spray Irrigation Outside of Acceptable Land Application Periods. [Minn. R. 7001]  |
| 5.5.16 | If conditions require spray irrigation outside of the effective period designated in the limits and monitoring section of this permit or if an emergency condition exists, the Permittee shall submit to the MPCA the "Spray Irrigation/Rapid Infiltration Basin Discharge Not Authorized Within Permit" form found on the MPCA's website at: <a href="http://www.pca.state.mn.us/index.php/water/water-types-and-programs/wastewater/index.html">http://www.pca.state.mn.us/index.php/water/water-types-and-programs/wastewater/index.html</a> . The form shall be submitted to the MPCA at least two weeks prior to needing to spray irrigate. [Minn. R. 7001.0150, 3(F)] |
| 5.5.17 | Reporting. [Minn. R. 7001]  |
| 5.5.18 | The Permittee shall submit a land application of wastewater annual report : Due by January 21 of each year following permit issuance. [Minn. R. 7001.0150, 3(F)]  |
| 5.5.19 | The Land Application of Wastewater Annual Report shall include the following information: <ul style="list-style-type: none"> <li>a. A description of the treatment system, including any changes made during the year.</li> <li>b. A description of system operation during the past year, including the following:           <ul style="list-style-type: none"> <li>i. nutrient and hydraulic loading;</li> <li>ii. irrigation scheduling and intensity;</li> </ul> </li> </ul>  |



|        |   |
|--------|---|
|        | <ul style="list-style-type: none"> <li>iii. crop harvesting; and</li> <li>iv. problems encountered and any remedial actions.</li> </ul> <p>c. A description of system maintenance during the past year, including the following:</p> <ul style="list-style-type: none"> <li>i. crop types and yields; and</li> <li>ii. irrigation equipment.</li> </ul> <p>d. A summarization of monitoring results obtained during the past year from the soil monitoring requirements.</p> <p>e. An analysis of the information submitted, and recommendations for changes, including the following:</p> <ul style="list-style-type: none"> <li>i. analysis of the year's operation; and</li> <li>ii. proposed changes for the coming year's operation. [Minn. R. 7001.0150, 3(F)]</li> </ul> |
|        | <b>Spray Irrigation: Soils</b>  |
| 5.6.20 | Sampling Location. [Minn. R. 7001]  |
| 5.6.21 | Samples for Station LA303 shall be taken at the spray irrigation site and shall be representative of the entire site. [Minn. R. 7001.0150, 2(B)]  |
| 5.6.22 | Soil Samples. [Minn. R. 7001]   |
| 5.6.23 | Soil samples shall be taken in the spring before the first irrigation and before the first application of commercial or other supplemental fertilizer for that year. [Minn. R. 7001.0150, 2(B)]   |
| 5.6.24 | Soil samples shall be a composite of a mixture of 15 to 20 equally proportioned subsamples taken from a 0- to 8-inch core. At least one composite sample shall be collected for each 40 acres on the permitted land application site. [Minn. R. 7001.0150, 2(B)]  |
| 5.6.25 | Application Rates. [Minn. R. 7001]  |
| 5.6.26 | Nitrogen and sodium land application rate limits apply to the sum of all sources of nitrogen or sodium applied to a permitted application site. [Minn. R. 7001.0150, 3(F)]  |
| 5.6.27 | If nitrogen or sodium are applied to a permitted land application site from other sources including commercial fertilizer, manure, silage, sewage or wastewater treatment solids and sludges, then these other nitrogen or sodium sources shall be included in the sum of nitrogen or sodium applied to determine compliance with application rate limits at that site. [Minn. R. 7001.0150, 3(F)]  |
| 5.6.28 | The nitrogen application rate shall be calculated as the sum of the total annual mass Kjeldahl nitrogen and nitrate-plus-nitrite nitrogen applied to the site, divided by the acreage of the site. [Minn. R. 7001.0150, 3(F)]   |
|        | <b>Pond System</b>  |
| 5.7.29 | Bypass Structures. [Minn. R. 7001]  |
| 5.7.30 | All structures capable of bypassing the treatment system shall be manually controlled and kept locked at all times. [Minn. R. 7001.0150, 3(F)]  |
| 5.7.31 | Sanitary Sewer Extension Permit. [Minn. R. 7001]  |
| 5.7.32 | 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 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. 3(b). [Minn. R. 7001.0150, 3(F)]  |
| 5.7.33 | Operator Certification. [Minn. R. 7001]   |
| 5.7.34 | The Permittee shall provide a Class D state certified operator who is in direct responsible charge of the operation, maintenance and testing functions required to ensure compliance with the terms and conditions of this permit. [Minn. R. 9400.0400, 1(A)]   |
| 5.7.35 | The Permittee shall provide the appropriate number of operators with a Type V certification to be responsible for land application of any nonhazardous liquid waste. [Minn. R. 7041.0200]   |
| 5.7.36 | 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 the certified operator's name, certificate number, company name if appropriate, the period covered by the contract and provisions for renewal; the duties and responsibilities of the certified operator; the duties and responsibilities of the permittee; and  |

|        |  |   |
|--------|--|---|
|        |  | provisions for notifying the MPCA 30 days in advance of termination if the contract is terminated prior to the expiration date. [Minn. R. 9400.0400, 1(A)]  |
| 5.7.37 |  | The Permittee shall notify the MPCA within 30 days of a change in operator certification or contract status. [Minn. R. 7001.0150, 3(F)]   |
| 5.7.38 |  | Ponds - Observations. [Minn. R. 7001]   |
| 5.7.39 |  | The Permittee shall inspect the pond system weekly, and shall take measurements of pond water depth, estimate the coverage of aquatic plants, floating mats and ice cover on the surface of the ponds, and note odors, the condition of the dikes and the presence of muskrats. The Permittee shall maintain records of these weekly inspections for the last three (3) years, and submit the results on the Discharge Monitoring Report (DMR) supplemental form. [Minn. R. 7001.0150, 3(F)]  |
| 5.7.40 |  | The Permittee shall maintain daily precipitation records. [Minn. R. 7001.0150, 3(F)]  |
|        |  | <b>Rapid Infiltration Basin (RIB)</b>   |
| 5.8.41 |  | The Permittee shall follow the approved operation and maintenance manual for dosing and resting the rapid infiltration basins in order to maximize effluent treatment. Use of the rapid infiltration basins shall cycle in a dosing/resting operational mode. [Minn. R. 7001.0150, 3(F)]  |
| 5.8.42 |  | The entire basin cross-sectional area shall be uniformly loaded. [Minn. R. 7001.0150, 3(F)]   |
|        |  | <b>Pretreatment: Undelegated Requirements</b>   |
| 5.9.43 |  | Pretreatment - Definitions. [Minn. R. 7049]   |
| 5.9.44 |  | An "Individual Control Mechanism" is a document, such as an agreement or permit, that imposes limitations or requirements on an individual industrial user of the POTW. [Minn. R. 7049]   |
| 5.9.45 |  | "Significant Industrial User" (SIU) means any industrial user that:<br><br>a. discharges 25,000 gallons per day or more of process wastewater;<br>b. contributes a load of five (5) % or more of the capacity of the POTW; or<br>c. is designated as significant by the Permittee or the MPCA on the basis that the SIU has a reasonable potential to adversely impact the POTW, or the quality of its effluent or residuals. [Minn. R. 7049]   |
| 5.9.46 |  | Pretreatment - Permittee Responsibility to Control Users. [Minn. R. 7049]   |
| 5.9.47 |  | It is the Permittee's responsibility to regulate the discharge from users of its wastewater treatment facility. The Permittee shall prevent any pass through of pollutants or any inhibition or disruption of the Permittee's facility, its treatment processes, or its sludge processes or disposal that contribute to the violation of the conditions of this permit or any federal or state law or regulation limiting the release of pollutants from the POTW. [Minn. R. 7049]  |
| 5.9.48 |  | The Permittee shall prohibit the discharge of the following to its wastewater treatment facility:<br><br>a. pollutants which create a fire or explosion hazard, including any discharge with a flash point less than 60 degrees C (140 degrees F);<br>b. pollutants which would cause corrosive structural damage to the POTW, including any waste stream with a pH of less than 5.0;<br>c. solid or viscous pollutants which would obstruct flow;<br>d. heat that would inhibit biological activity, including any discharge that would cause the temperature of the waste stream at the POTW treatment plant headwork's to exceed 40 degrees C (104 degrees F);<br>e. pollutants which produce toxic gases, vapors, or fumes that may endanger the health or safety of workers; or<br>f. any pollutant, including oxygen demanding pollutants such as biochemical oxygen demand, released at a flow rate or pollutant concentration that will cause interference or pass through. [Minn. R. 7049] |
| 5.9.49 |  | The Permittee shall prohibit new discharges of non-contact cooling waters unless there is no cost effective alternative. Existing discharges of non-contact cooling water to the Permittee's wastewater treatment facility shall be eliminated, where elimination is cost-effective, or where an infiltration/inflow analysis and sewer system evaluation survey indicates the need for such removal.   |

|        |  |
|--------|--|
|        | [Minn. R. 7049]  |
| 5.9.50 | 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]  |
| 5.9.51 | Pollutant of concern means a pollutant that is or may be discharged by an industrial user that is, or reasonably should be of concern on the basis that it may cause the permittee to violate any permit limits on the release of pollutants. The following pollutants shall be evaluated to determine if they should be pollutants of concern: pollutants limited in this permit, pollutants for which monitoring is required in this permit, pollutants that are likely to cause inhibition of the Permittee's POTW, pollutants which may interfere with sludge disposal, and pollutants for which the Permittee's treatment facility has limited capacity. [Minn. R. 7049]            |
| 5.9.52 | Control of Significant Industrial Users. [Minn. R. 7049]   |
| 5.9.53 | The Permittee shall impose pretreatment requirements on SIUs which will ensure compliance with all applicable effluent limitations and other requirements set forth in this permit or any federal or state law or regulation limiting the release of pollutants from the POTW. These requirements shall be applied to SIUs by means of an individual control mechanism. [Minn. R. 7049]  |
| 5.9.54 | The Permittee shall not knowingly enter into an individual control mechanism with any user that would allow the user to contribute an amount or strength of wastewater that would cause violation of any limitation or requirement in the permit, or any applicable federal, state or local law or regulation. [Minn. R. 7049]   |
| 5.9.55 | Monitoring of Significant Industrial Users. [Minn. R. 7049]  |
| 5.9.56 | The Permittee shall obtain from SIUs specific information on the quality and quantity of the SIU's discharges to the Permittee's POTW. Except where specifically requested by the Permittee and approved by the MPCA, this information shall be obtained by means of representative monitoring conducted by the Permittee or by the SIU under requirements imposed by the Permittee in the SIU's individual control mechanism. Monitoring performed to comply with this requirement shall include all pollutants for which the SIU is significant and shall be done at a frequency commensurate with the significance of the SIU. [Minn. R. 7049]  |
| 5.9.57 | Reporting and Notification. [Minn. R. 7049]  |
| 5.9.58 | The Permittee shall submit a pretreatment annual report : Due by 31 days after the end of each calendar year following permit issuance if a SIU discharges to the POTW during a given calendar year. [Minn. R. 7049]   |
| 5.9.59 | The Pretreatment Annual Report shall be submitted on forms provided by the agency or shall provide equivalent information.<br><br>The Permittee shall submit the pre-treatment report to the following address:<br><br>MPCA<br>Attn: WQ Submittals Center<br>520 Lafayette Road North<br>St. Paul, Minnesota 55155-4194. [Minn. R. 7049]   |
| 5.9.60 | The Permittee shall notify the MPCA in writing of any:<br><br>a. SIU of the Permittee's POTW which has not been previously disclosed to the MPCA;<br>b. anticipated or actual changes in the volume or quality of discharge by an industrial user that could result in the industrial user becoming an SIU as defined in this chapter; or<br>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.<br><br>This notification shall be submitted within 30 days of identifying the IU as a SIU. Where changes are proposed, they shall be submitted prior to changes being made. [Minn. R. 7049] |
| 5.9.61 | Upon notifying the MPCA of a SIU or change in a SIU discharge as required above, the Permittee shall submit the following information on forms provided by the agency or in a comparable format:   |

|         |   |
|---------|---|
|         | <p>a. the identity of the SIU and a description of the SIU's operation and process;<br/>         b. a characterization of the SIU's discharge;<br/>         c. the required local limits that will be imposed on the SIU;<br/>         d. a technical justification of the required local limits; and<br/>         e. a plan for monitoring the SIU which is consistent with monitoring requirements in this chapter.<br/>         [Minn. R. 7049]</p>  |
| 5.9.62  | <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;<br/>         b. a copy of the individual control mechanism used to control the SIU;<br/>         c. the Permittee's legal authority to be used for regulating the SIU; and<br/>         d. the Permittee's procedures for enforcing the requirements imposed on the SIU. [Minn. R. 7049]</p>  |
| 5.9.63  | <p>The permittee shall notify MPCA of any of its industrial users that may be subject to national categorical pretreatment standards. [Minn. R. 7049]</p>   |
| 5.9.64  | <p>This permit may be modified in accordance with Minnesota Rules, ch. 7001 to require development of a pretreatment program approvable under the Federal General Pretreatment Regulation (40 CFR 403). [Minn. R. 7049]</p>   |
|         | <p><b>Total Facility Requirements (SDS)</b></p>   |
| 5.10.65 | <p>No Discharge. There shall be no point source discharge to surface water from the permitted activity. [Minn. R. 7001. ]</p>   |
| 5.10.66 | <p>Definitions. Refer to the 'Permit Users Manual' found on the MPCA website (<a href="http://www.pca.state.mn.us">www.pca.state.mn.us</a>) for standard definitions. [Minn. R. 7001. ]</p>   |
| 5.10.67 | <p>Incorporation by Reference. The following applicable federal and state laws are incorporated by reference in this permit, are applicable to the Permittee, and are enforceable parts of this permit: 40 CFR pts. 122.41, 122.42, 136, 403 and 503; Minn. R. pts. 7001, 7041, 7045, 7050, 7052, 7053, 7060, and 7080; and Minn. Stat. ch. 115 and 116. [Minn. R. 7001]</p>  |
| 5.10.68 | <p>Permittee Responsibility. The Permittee shall perform the actions or conduct the activity authorized by the permit in compliance with the conditions of the permit and, if required, in accordance with the plans and specifications approved by the Agency. [Minn. R. 7001.0150, subp. 3(E)]</p>  |
| 5.10.69 | <p>Toxic Discharges Prohibited. Whether or not this permit includes effluent limitations for toxic pollutants, the Permittee shall not discharge a toxic pollutant except according to Code of Federal Regulations, Title 40, sections 400 to 460 and Minnesota Rules 7050, 7052, 7053 and any other applicable MPCA rules. [Minn. R. 7001.1090, subp. 1(A)]</p>  |
| 5.10.70 | <p>Nuisance Conditions Prohibited. The Permittee's discharge shall not cause any nuisance conditions including, but not limited to: floating solids, scum and visible oil film, acutely toxic conditions to aquatic life, or other adverse impact on the receiving water. [Minn. R. 7050.0210, subp. 2]</p>   |
| 5.10.71 | <p>Property Rights. This permit does not convey a property right or an exclusive privilege. [Minn. R. 7001.0150, subp. 3(C)]</p>  |
| 5.10.72 | <p>Liability Exemption. In issuing this permit, the state and the MPCA assume no responsibility for damage to persons, property, or the environment caused by the activities of the Permittee in the conduct of its actions, including those activities authorized, directed, or undertaken under this permit. To the extent the state and the MPCA may be liable for the activities of its employees, that liability is explicitly limited to that provided in the Tort Claims Act. [Minn. R. 7001.0150, subp. 3(O)]</p> |
| 5.10.73 | <p>The MPCA's issuance of this permit does not obligate the MPCA to enforce local laws, rules, or plans beyond what is authorized by Minnesota Statutes. [Minn. R. 7001.0150, subp. 3(D)]</p>   |
| 5.10.74 | <p>Liabilities. The MPCA's issuance of this permit does not release the Permittee from any liability, penalty or duty imposed by Minnesota or federal statutes or rules or local ordinances, except the obligation to obtain the permit. [Minn. R. 7001.0150, subp. 3(A)]</p>   |
| 5.10.75 | <p>The issuance of this permit does not prevent the future adoption by the MPCA of pollution control rules, standards, or orders more stringent than those now in existence and does not prevent the enforcement of these rules, standards, or orders against the Permittee. [Minn. R. 7001.0150, subp. 3(B)]</p>   |

|         |  |
|---------|--|
| 5.10.76 | Severability. The provisions of this permit are severable and, if any provisions of this permit or the application of any provision of this permit to any circumstance are held invalid, the application of such provision to other circumstances and the remainder of this permit shall not be affected thereby. [Minn. R. 7001]  |
| 5.10.77 | Compliance with Other Rules and Statutes. The Permittee shall comply with all applicable air quality, solid waste, and hazardous waste statutes and rules in the operation and maintenance of the facility. [Minn. R. 7001]  |
| 5.10.78 | Inspection and Entry. When authorized by Minn. Stat. ch. 115.04; 115B.17, subd. 4; and 116.091, and upon presentation of proper credentials, the agency, or an authorized employee or agent of the agency, shall be allowed by the Permittee 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(l)]  |
| 5.10.79 | Control Users. The Permittee shall regulate the users of its wastewater treatment facility so as 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)]   |
| 5.10.80 | Sampling. [Minn. R. 7001]  |
| 5.10.81 | Representative Sampling. Samples and measurements required by this permit shall be conducted as specified in this permit and shall be representative of the discharge or monitored activity. [Minn. R. 7001.0150, 2(B)]  |
| 5.10.82 | Additional Sampling. If the Permittee monitors more frequently than required, the results and the frequency of monitoring shall be reported on the Discharge Monitoring Report (DMR) or another MPCA-approved form for that reporting period. [Minn. R. 7001.1090, subp. 1(E)]   |
| 5.10.83 | Certified Laboratory. A laboratory certified by the Minnesota Department of Health and/or registered by the MPCA shall conduct analyses required by this permit. Analyses of dissolved oxygen, pH, temperature, specific conductance, and total residual oxidants (chlorine, bromine) do not need to be completed by a certified laboratory but shall comply with manufacturers specifications for equipment calibration and use. [Minn. R. 4740.2010, Minn. R. 4740.2050 through 2120]  |
| 5.10.84 | Sample Preservation and Procedure. Sample preservation and test procedures for the analysis of pollutants shall conform to 40 CFR Part 136 and Minn. R. 7041.3200. [Minn. R. 7001.0150, 2(B), Minn. R. 7041.3200]  |
| 5.10.85 | Equipment Calibration: Flow meters, pumps, flumes, lift stations or other flow monitoring equipment used for purposes of determining compliance with permit shall be checked and/or calibrated for accuracy at least twice annually. [Minn. R. 7001.0150, 2(B and C)]  |
| 5.10.86 | <p>Maintain Records. The Permittee shall keep the records required by this permit for at least three years, including any calculations, original recordings from automatic monitoring instruments, and laboratory sheets. The Permittee shall extend these record retention periods upon request of the MPCA. The Permittee shall maintain records for each sample and measurement. The records shall include the following information:</p> <ul style="list-style-type: none"> <li>a. the exact place, date, and time of the sample or measurement;</li> <li>b. the date of analysis;</li> <li>c. the name of the person who performed the sample collection, measurement, analysis, or calculation;</li> <li>d. the analytical techniques, procedures and methods used; and</li> <li>e. the results of the analysis. [Minn. R. 7001.0150, 2(C)]</li> </ul> |
| 5.10.87 | Completing Reports. The Permittee shall submit the results of the required sampling and monitoring activities on the forms provided, specified, or approved by the MPCA. The information shall be recorded in the specified areas on those forms and in the units specified.   |

|         |   |
|---------|---|
|         | <p>Required forms may include DMR Supplemental/Sample Value Form Individual values for each sample and measurement shall be recorded on the DMR Supplemental/Sample Value Form which, if required, will be provided by the MPCA. DMR Supplemental/Sample Value Forms shall be submitted with the appropriate DMRs. You may design and use your own supplemental form; however it shall be approved by the MPCA. Note: Required summary information shall also be recorded on the DMR. Summary information that is submitted ONLY on the DMR Supplemental/Sample Value Form does not comply with the reporting requirements. [Minn. R. 7001.1090, 1(D), Minn. R. 7001.150, 2(B)]</p>   |
| 5.10.88 | <p>Submitting Reports. DMRs, DMR supplemental forms and related attachments must be electronically submitted via the MPCA Online Services Portal after authorization is approved.</p> <p>DMRs and DMR Supplemental Forms shall be electronically submitted by the 21st day of the month following the sampling period or as otherwise specified in this permit. Electronic DMR submittal shall be complete on or before 11:59 PM of the 21st day of the month following the sampling period or as otherwise specified in this permit. A DMR shall be submitted for each required station even if no discharge occurred during the reporting period.</p> <p>Other reports required by this permit shall be postmarked by the date specified in the permit to: MPCA, Attn: WQ Submittals Center, 520 Lafayette Road North, St Paul Minnesota 551554194. [Minn. R. 7001..0150, Subp. 2(B), Minn. R. 7001..0150, Subp. 3(H)]</p>  |
| 5.10.89 | <p>Incomplete or Incorrect Reports. The Permittee shall immediately submit an electronically amended report or DMR to the MPCA upon discovery by the Permittee or notification by the MPCA that it has submitted an incomplete or incorrect report or DMR. The amended report or DMR shall contain the missing or corrected data along with a cover letter explaining the circumstances of the incomplete or incorrect report. If it is impossible to electronically amend the report or DMR, the Permittee shall immediately notify the MPCA and the MPCA will provide direction for the amendment submittals. [Minn. R. 7001.0150, 3(G)]</p>  |
| 5.10.90 | <p>Required Signatures. All DMRs, forms, reports, and other documents submitted to the MPCA shall be signed by the Permittee or the duly authorized representative of the Permittee. Minn. R. 7001.0150, subp. 2, item D. The person or persons that sign the DMRs, forms, reports or other documents shall certify that he or she understands and complies with the certification requirements of Minn. R. 7001.0070 and 7001.0540, including the penalties for submitting false information. Technical documents, such as design drawings and specifications and engineering studies required to be submitted as part of a permit application or by permit conditions, shall be certified by a registered professional engineer. [Minn. R. 7001.0540]</p>   |
| 5.10.91 | <p>Detection Level. The Permittee shall report monitoring results below the reporting limit (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 concentration shall be reported as "&lt;0.1 mg/L." "Non-detected," "undetected," "below detection limit," and "zero" are unacceptable reporting results, and are permit reporting violations.</p> <p>Where sample values are less than the level of detection and the permit requires reporting of an average, the Permittee shall calculate the average as follows:</p> <ol style="list-style-type: none"> <li>If one or more values are greater than the level of detection, substitute zero for all nondetectable values to use in the average calculation.</li> <li>If all values are below the level of detection, report the averages as "&lt;" the corresponding level of detection.</li> <li>Where one or more sample values are less than the level of detection, and the permit requires reporting of a mass, usually expressed as kg/day, the Permittee shall substitute zero for all nondetectable values. [Minn. R. 7001.0150, 2(B)]</li> </ol> |
| 5.10.92 | <p>Records. The Permittee shall, when requested by the Agency, 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, 3(H)]</p>  |

|         |   |
|---------|---|
| 5.10.93 | Confidential Information. Except for data determined to be confidential according to Minn. Stat. ch. 116.075, subd. 2, all reports required by this permit shall be available for public inspection. Effluent data shall not be considered confidential. To request the Agency maintain data as confidential, the Permittee shall follow Minn. R. 7000.1300. [Minn. R. 7000.1300]   |
| 5.10.94 | Noncompliance and Enforcement. [Minn. R. 7001]  |
| 5.10.95 | Subject to Enforcement Action and Penalties. Noncompliance with a term or condition of this permit subjects the Permittee to penalties provided by federal and state law set forth in section 309 of the Clean Water Act; United States Code, title 33, section 1319, as amended; and in Minn. Stat. ch. 115.071 and 116.072, including monetary penalties, imprisonment, or both. [Minn. R. 7001.1090, 1(B)]   |
| 5.10.96 | Criminal Activity. The Permittee may not knowingly make a false statement, representation, or certification in a record or other document submitted to the Agency. A person who falsifies a report or document submitted to the Agency, or tampers with, or knowingly renders inaccurate a monitoring device or method required to be maintained under this permit is subject to criminal and civil penalties provided by federal and state law. [Minn. R. 7001.0150, 3(G), Minn. R. 7001.1090, 1(G and H), Minn. Stat. ch. 609.671, 1]   |
| 5.10.97 | Noncompliance Defense. It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [Minn. R. 7001]  |
| 5.10.98 | <p>Effluent Violations. If sampling by the Permittee indicates a violation of any discharge limitation specified in this permit, the Permittee shall immediately make every effort to verify the violation by collecting additional samples, if appropriate, investigate the cause of the violation, and take action to prevent future violations. If the permittee discovers that noncompliance with a condition of the permit has occurred which 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 5 days of the discovery. The written description shall include items a. through e., as listed below. If the Permittee discovers other non-compliance that does not explicitly endanger human health, public drinking water supplies, or the environment, the non-compliance shall be reported during the next reporting period to the MPCA with its Discharge Monitoring Report (DMR). If no DMR is required within 30 days, the Permittee shall submit a written report 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. 7001.150, 3(K)]</li></ul> |
| 5.10.99 | <p>Upset Defense. In the event of temporary noncompliance by the Permittee with an applicable effluent limitation 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 Agency 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, item I; and</li><li>f. that the Permittee implemented the remedial measures required by Minn. R. 7001.0150, subp. 3,</li></ul>   |

|          |   |
|----------|---|
|          | item J. [Minn. R. 7001.1090]  |
| 5.10.100 | Release. [Minn. R. 7001]  |
| 5.10.101 | Unauthorized Releases of Wastewater Prohibited. Except for discharges from outfalls specifically authorized by this permit, overflows, discharges, spills, or other releases of wastewater or materials to the environment, whether intentional or not, are prohibited. However, 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. [Minn. Stat. ch. 115.061]  |
| 5.10.102 | Discovery of a release. Upon discovery of a release, the Permittee shall: <ol style="list-style-type: none"> <li>Take all reasonable steps to immediately end the release.</li> <li>Notify the Minnesota Department of Public Safety Duty Officer at 1(800)422-0798 or (651)649-5451 (metro area) immediately upon discovery of the release. You may contact the MPCA during business hours at 1(800)657-3864 or (651)296-6300 (metro area).</li> <li>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 released materials or substances cannot be immediately or completely recovered, the Permittee shall contact the MPCA. If directed by the MPCA, the Permittee shall consult with other local, state or federal agencies (such as the Minnesota Department of Natural Resources and/or the Wetland Conservation Act authority) for implementation of additional clean-up or remediation activities in wetland or other sensitive areas. [Minn. R. 7001.1090]</li> </ol> |
| 5.10.103 | Sampling of a release. Upon discovery of a release, the Permittee shall: <ol style="list-style-type: none"> <li>Collect representative samples of the release. The Permittee shall sample the release for 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, Fecal Coliform Bacteria samples shall be collected where it is determined by the Permittee that the release contains or may contain sewage. If the release cannot be immediately stopped, the Permittee shall consult with MPCA regarding additional sampling requirements. Samples shall be collected at least, but not limited to, two times per week for as long as the release continues.</li> <li>Submit the sampling results on the Release Sampling Form (<a href="http://www.pca.state.mn.us/index.php/view-document.html?gid=18867">http://www.pca.state.mn.us/index.php/view-document.html?gid=18867</a>). The Release Sampling Form shall be submitted to the MPCA with the next DMR or within 30 days whichever is sooner. [Minn. R. 7001.1090]</li> </ol>                       |
| 5.10.104 | Bypass. [Minn. R. 7001]   |
| 5.10.105 | Anticipated bypass. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if the bypass is for essential maintenance to assure efficient operation of the facility. The permittee shall submit prior notice, if possible at least ten days before the date of the bypass to the MPCA. <p>The notice of the need for an anticipated bypass shall include the following information:</p> <ol style="list-style-type: none"> <li>the proposed date and estimated duration of the bypass;</li> <li>the alternatives to bypassing; and</li> <li>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, samples shall be collected 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. [Minn. R. 7001.1090, 1(J)]</li> </ol>  |
| 5.10.106 | All other bypasses are prohibited. The MPCA may take enforcement action against the Permittee for a bypass, unless the specific conditions described in Minn. R. Ch. 7001.1090 subp. 1, K and 122.41(m)(4)(i) are met. <p>In the event of an unanticipated bypass, the permittee shall:</p>   |



|          |  |
|----------|--|
|          | <p>a. Take all reasonable steps to immediately end the bypass.</p> <p>b. Notify the Minnesota Department of Public Safety Duty Officer at 1(800)422-0798 or (651)649-5451 (metro area) immediately upon commencement of the bypass. You may contact the MPCA during business hours at 1(800)657-3864 or (651)296-6300 (metro area).</p> <p>c. Immediately take action as may be reasonably possible to minimize or abate pollution to waters of the state or potential impacts to human health caused thereby. If directed by the MPCA, the Permittee shall consult with other local, state or federal agencies for implementation of abatement, clean-up, or remediation activities.</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. Samples shall be collected 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, 1(K), Minn. Stat. ch. 115.061]</p> |
| 5.10.107 | Operation and Maintenance. [Minn. R. 7001]   |
| 5.10.108 | 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, item F. [Minn. R. 7001.0150, 3(F)]  |
| 5.10.109 | In the event of a reduction or loss of effective treatment of wastewater at the facility, the Permittee shall control production or curtail its 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 the wastewater treatment facility has been restored or until an alternative method of treatment is provided. [Minn. R. 7001.1090, 1(C)]   |
| 5.10.110 | Solids Management. The Permittee shall properly store, transport, and dispose of biosolids, septage, sediments, residual solids, filter backwash, screenings, oil, grease, and other substances so that pollutants do not enter surface waters or ground waters of the state. Solids should be disposed of in accordance with local, state and federal requirements. [40 CFR 503, Minn. R. 7041]   |
| 5.10.111 | Scheduled Maintenance. The Permittee shall schedule maintenance of the treatment works during non-critical water quality periods to prevent degradation of water quality, except where emergency maintenance is required to prevent a condition that would be detrimental to water quality or human health. [Minn. R. 7001.0150, 3(F), Minn. R. 7001.150, 2(B)]  |
| 5.10.112 | Control Tests. In-plant control tests shall be conducted at a frequency adequate to ensure compliance with the conditions of this permit. [Minn. R. 7001.0150, 3(F), Minn. R. 7001.150, 2(B)]  |
| 5.10.113 | Changes to the Facility or Permit. [Minn. R. 7001]   |
| 5.10.114 | <p>Permit Modifications. Except as provided under Minnesota Statutes, section 115.07, subdivisions 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 agency has issued a written permit for the facility or activity.</p> <p>Permittees that propose to make a change to the facility or discharge that requires a permit modification shall follow Minn. R. 7001.0190. If the Permittee cannot determine whether a permit modification is needed, the Permittee shall contact the MPCA prior to any action. It is recommended that the application for permit modification be submitted to the MPCA at least 180 days prior to the planned change. [Minn. R. 7001.0030]</p>  |
| 5.10.115 | Plans, specifications and MPCA approval are not necessary 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, a broken pipe, lift station pump, aerator, or blower can be replaced with the same design-sized equipment without MPCA approval.  |

|          |  |
|----------|--|
|          | <p>If the proposed construction is not expressly authorized by this permit, it may require a permit modification. If the construction project requires an Environmental Assessment Worksheet under Minn. R. 4410, no construction shall begin until a negative declaration is issued and all approvals are received or implemented. [Minn. R. 7001.0030]</p>   |
| 5.10.116 | <p>Report Changes. The Permittee shall give advance notice as soon as possible to the MPCA of any substantial changes in operational procedures, activities that may alter the nature or frequency of the discharge, and/or material factors that may affect compliance with the conditions of this permit. [Minn. R. 7001.0150, 3(M)]</p>   |
| 5.10.117 | <p>Chemical Additives. The Permittee shall receive prior written approval from the MPCA before increasing the use of a chemical additive authorized by this permit, or using a chemical additive not authorized by this permit, in quantities or concentrations that have the potential to change the characteristics, nature and/or quality of the discharge.</p> <p>The Permittee shall request approval for an increased or new use of a chemical additive at least 60 days, or as soon as possible, before the proposed increased or new use. This written request shall include at least the following information for the proposed additive:</p> <ol style="list-style-type: none"> <li>The process for which the additive will be used;</li> <li>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;</li> <li>a complete product use and instruction label;</li> <li>the commercial and chemical names and Chemical Abstract Survey (CAS) number for all ingredients in the additive (If the MSDS 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</li> <li>The proposed method of application, application frequency, concentration, and daily average and maximum rates of use.</li> </ol> <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> |
| 5.10.118 | <p>MPCA Initiated Permit Modification, Suspension, or Revocation. The MPCA may modify or revoke and reissue this permit pursuant to Minn. R. 7001.0170. The MPCA may revoke without reissuance this permit pursuant to Minn. R. 7001.0180. [Minn. R. 7001.0170, Minn. R. 7001.0180]</p>  |
| 5.10.119 | <p>TMDL Impacts. Facilities that discharge to an impaired surface water, watershed or drainage basin may be required to comply with additional permits or permit requirements, including additional restriction or relaxation of limits and monitoring as authorized by the CWA 303(d)(4)(A) and 40 CFR 122.44.I.2.i., necessary to ensure consistency with the assumptions and requirements of any applicable US EPA approved wasteload allocations resulting from Total Maximum Daily Load (TMDL) studies. [Minn. R. 7001]</p>   |
| 5.10.120 | <p>Permit Transfer. The permit is not transferable to any person without the express written approval of the Agency after compliance with the requirements of Minn. R. 7001.0190. A person to whom the permit has been transferred shall comply with the conditions of the permit. [Minn. R. 7001.0150, 3(N)]</p>  |
| 5.10.121 | <p>Facility Closure. The Permittee is responsible for closure and post-closure care of the facility. The Permittee shall notify the MPCA of a significant reduction or cessation of the activities described in this permit at least 180 days before the reduction or cessation. The MPCA may require the Permittee</p>  |

|          |   |
|----------|---|
|          | <p>to provide to the MPCA a facility Closure Plan for approval.</p> <p>Facility closure that could result in a potential long-term water quality concern, such as the ongoing discharge of wastewater to surface or ground water, may require a permit modification or reissuance.</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 financial assurance is required, the amount and type of financial assurance, and proposed modifications to previously MPCA-approved financial assurance, shall be approved by the MPCA. [Minn. Stat. ch. 116.07, 4]</p>   |
| 5.10.122 | <p>Permit Reissuance. If the Permittee desires to continue permit coverage beyond the date of permit expiration, the Permittee shall submit an application for permit reissuance : Due by 180 days prior to permit expiration. 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.</p> <p>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 (Minn. R. 7001.0040 and 7001.0160):</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;</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. 7001.0160]</li></ul> |

6. Submittal action summary

|           |                             |  |
|-----------|-----------------------------|--|
| WS 001    | Influent Waste              |  |
|           |                             | <b>Waste Stream: Spray Irrigation Influent 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)]   |
| WS 002    | Intermediate:<br>WW to Land |  |
|           |                             | <b>Waste Stream: Spray Irrigation to Spray Site Requirements</b>   |
|           | 6.2.1                       | The Permittee shall submit a monthly DMR : Due by 21 days after the end of each calendar month following permit issuance. [Minn. R. 7001.0150, Subp. 2(B)]   |
| WS 003    | Intermediate:<br>WW to Land |  |
|           |                             | <b>Waste Stream: Rapid Infiltration Basin 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)]   |
| MN0040703 | Beardsley<br>WWTP           |  |
|           |                             | <b>Spray Irrigation</b>  |
|           | 6.4.1                       | The Permittee shall submit a land application of wastewater annual report : Due by January 21 of each year following permit issuance. [Minn. R. 7001.0150, 3(F)]   |
|           |                             | <b>Pretreatment: Undelegated Requirements</b>  |
|           | 6.5.2                       | 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>Total Facility Requirements (SDS)</b>   |
|           | 6.6.3                       | Permit Reissuance. If the Permittee desires to continue permit coverage beyond the date of permit expiration, the Permittee shall submit an application for permit reissuance : Due by 180 days prior to permit expiration. 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. |

|  |   |
|--|---|
|  | <p>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 (Minn. R. 7001.0040 and 7001.0160):</p> |
|--|---|

- a. The Permittee is not in substantial compliance with the requirements of this permit, or with a stipulation agreement or compliance schedule designed to bring the Permittee into compliance with this permit;
- b. The MPCA, as a result of an action or failure to act by the Permittee, has been unable to take final action on the application on or before the expiration date of the permit;
- 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. 7001.0160]

DRAFT

7. Limits and monitoring

| Subject item                             | Parameter                           | Discharge limitations  |                                    |                         |                            |                                      | Monitoring requirements                |                              |                  |                         |                    | Notes |
|--|-------------------------------------|------------------------|------------------------------------|-------------------------|----------------------------|--------------------------------------|--|------------------------------|------------------|-------------------------|--------------------|-------|
|  |                                     | Quantity /Loading avg. | Quantity /Loading max.             | Quantity /Loading units | Quality /Conc. /Conc. min. | Quality /Conc. avg.                  | Quality /Conc. max.                    | Quality/ Conc. units         | Frequency        | Sample type             | Effective period   |       |
| WS 001 Influent Waste Stream             | BOD, Carbonaceous 05 Day (20 Deg C) |                        |                                    |                         |                            |                                      | Monitor only. calendar quarter maximum | milligrams per liter         | once per quarter | 4-Hour Flow Composite   | Mar, Jun, Sep, Dec |       |
| WS 001 Influent Waste Stream             | Flow                                |                        | Monitor only. calendar month total | million gallons         |                            | Monitor only. calendar month average | Monitor only. calendar month maximum   | million gallons per day      | once per day     | Measurement, Continuous | Jan-Dec            |       |
| WS 001 Influent Waste Stream             | pH                                  |                        |                                    |                         |                            |                                      | Monitor only. calendar quarter maximum | standard units               | once per quarter | Grab                    | Mar, Jun, Sep, 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 quarter maximum | milligrams per liter         | once per quarter | 4-Hour Flow Composite   | Mar, Jun, Sep, Dec |       |
| WS 002 Effluent to Spray Irrigation Site | Area Of Disposal, Used              |                        | 29.5 calendar month total          | acres                   |                            |                                      |  |                              | once per day     | Measurement             | Apr-Nov            |       |
| WS 002 Effluent to Spray Irrigation Site | Chloride, Total                     |                        |                                    |                         |                            | Monitor only. calendar month average |  | milligrams per liter         | once per month   | Grab                    | Apr-Nov            |       |
| WS 002 Effluent to Spray                 | Fecal Coliform, MPN or Membrane     |                        |                                    |                         |                            | 200 calendar month geometric         |  | organisms per 100 milliliter | once per month   | Grab                    | Apr-Nov            |       |

| Subject item                             | Parameter                          | Discharge limitations  |   |                                   |                     |   | Monitoring requirements |                         |                |                         |                  | Notes  |
|--|------------------------------------|------------------------|---|-----------------------------------|---------------------|---|-------------------------|-------------------------|----------------|-------------------------|------------------|--|
|  |                                    | Quantity /Loading avg. | Quantity /Loading max.                          | Quantity /Loading units           | Quality /Conc. min. | Quality /Conc. avg.                               | Quality /Conc. max.     | Quality/ Conc. units    | Frequency      | Sample type             | Effective period |  |
| Irrigation Site                          | Filter 44.5C                       |                        |   |                                   |                     | mean  |                         |                         |                |                         |                  |  |
| WS 002 Effluent to Spray Irrigation Site | Flow                               |                        | Monitor only. calendar month total              | million gallons                   |                     | Monitor only. calendar month average              |                         | million gallons per day | once per day   | Measurement, Continuous | Apr-Nov          |  |
| WS 002 Effluent to Spray Irrigation Site | Flow                               |                        | Monitor only. calendar month total intervention | million gallons                   |                     | Monitor only. calendar month average intervention |                         | million gallons per day | once per day   | Measurement, Continuous | Dec-Mar          | The intervention limit is 0 MG. If this limit is exceeded, the permittee must take action as described in sections 5.5.15 - 5.5.16, Spray Irrigation Outside of Acceptable Land Application Periods. |
| WS 002 Effluent to Spray Irrigation Site | Flow                               |                        | 12 calendar year to date total                  | million gallons                   |                     |   |                         |                         | once per day   | Calculation             | Jan-Dec          |  |
| WS 002 Effluent to Spray Irrigation Site | Flow Application Rate              |                        | 0.41 calendar year total                        | million gallons per acre per year |                     |   |                         |                         | once per year  | Calculation             | Jan-Dec          |  |
| WS 002 Effluent to Spray Irrigation Site | Nitrite Plus Nitrate, Total (as N) |                        |   |                                   |                     | Monitor only. calendar month average              |                         | milligrams per liter    | once per month | Grab                    | Apr-Nov          |  |
| WS 002 Effluent to Spray Irrigation Site | Nitrogen, Ammonia, Total (as N)    |                        |   |                                   |                     | Monitor only. calendar month average              |                         | milligrams per liter    | once per month | Grab                    | Apr-Nov          |  |
| WS 002 Effluent to Spray Irrigation Site | Nitrogen, Kjeldahl, Total          |                        |   |                                   |                     | Monitor only. calendar month average              |                         | milligrams per liter    | once per month | Grab                    | Apr-Nov          |  |

| Subject item   | Parameter                                | Discharge limitations  |   |                         |                     |   | Monitoring requirements                       |                               |                   |                            |                  | Notes |
|--|--|------------------------|---|-------------------------|---------------------|---|---|-------------------------------|-------------------|----------------------------|------------------|-------|
|  |  | Quantity /Loading avg. | Quantity /Loading max.                      | Quantity /Loading units | Quality /Conc. min. | Quality /Conc. avg.                           | Quality /Conc. max.                           | Quality/ Conc. units          | Frequency         | Sample type                | Effective period |       |
| WS 002<br>Effluent to<br>Spray<br>Irrigation Site                    | pH                                       |                        |   |                         |                     |   | Monitor only.<br>calendar<br>month<br>maximum | standard<br>units             | once per<br>month | Grab                       | Apr-Nov          |       |
| WS 002<br>Effluent to<br>Spray<br>Irrigation Site                    | Specific<br>Conductance                  |                        |   |                         |                     |   | Monitor only.<br>calendar<br>month<br>maximum | micromhos<br>per cm           | once per<br>month | Grab                       | Apr-Nov          |       |
| WS 003<br>Emergency<br>Overflow to<br>Rapid<br>Infiltration<br>Basin | Chloride, Total                          |                        |   |                         |                     | Monitor only.<br>calendar<br>month<br>average |   | milligrams<br>per liter       | once per<br>month | 4-Hour Flow<br>Composite   | Jan-Dec          |       |
| WS 003<br>Emergency<br>Overflow to<br>Rapid<br>Infiltration<br>Basin | Flow                                     |                        | Monitor only.<br>calendar<br>month<br>total | million<br>gallons      |                     | Monitor only.<br>calendar<br>month<br>average | Monitor only.<br>calendar<br>month<br>maximum | million<br>gallons per<br>day | once per<br>day   | Measurement,<br>Continuous | Jan-Dec          |       |
| WS 003<br>Emergency<br>Overflow to<br>Rapid<br>Infiltration<br>Basin | Nitrite Plus<br>Nitrate, Total<br>(as N) |                        |   |                         |                     | Monitor only.<br>calendar<br>month<br>average |   | milligrams<br>per liter       | once per<br>month | 4-Hour Flow<br>Composite   | Jan-Dec          |       |
| WS 003<br>Emergency<br>Overflow to<br>Rapid<br>Infiltration<br>Basin | Nitrogen,<br>Ammonia, Total<br>(as N)    |                        |   |                         |                     | Monitor only.<br>calendar<br>month<br>average |   | milligrams<br>per liter       | once per<br>month | 4-Hour Flow<br>Composite   | Jan-Dec          |       |
| WS 003<br>Emergency  | Nitrogen,<br>Kjeldahl, Total             |                        |   |                         |                     | Monitor only.<br>calendar                     |   | milligrams<br>per liter       | once per<br>month | 4-Hour Flow<br>Composite   | Jan-Dec          |       |



| Subject item  | Parameter                     | Discharge limitations  |                        |                         |                                      | Monitoring requirements              |                                      |                      |                |                       |                  | Notes |
|---|-------------------------------|------------------------|------------------------|-------------------------|--------------------------------------|--------------------------------------|--------------------------------------|----------------------|----------------|-----------------------|------------------|-------|
|   |                               | Quantity /Loading avg. | Quantity /Loading max. | Quantity /Loading units | Quality /Conc. min.                  | Quality /Conc. avg.                  | Quality /Conc. max.                  | Quality/ Conc. units | Frequency      | Sample type           | Effective period |       |
| Overflow to Rapid Infiltration Basin                  |                               |                        |                        |                         |                                      | month average                        |                                      |                      |                |                       |                  |       |
| WS 003 Emergency Overflow to Rapid Infiltration Basin | pH                            |                        |                        |                         | Monitor only. calendar month minimum |                                      | Monitor only. calendar month maximum | standard units       | once per month | Grab                  | Jan-Dec          |       |
| WS 003 Emergency Overflow to Rapid Infiltration Basin | Solids, Total Suspended (TSS) |                        |                        |                         |                                      | Monitor only. calendar month average |                                      | milligrams per liter | once per month | 4-Hour Flow Composite | Jan-Dec          |       |

8. Appendix 1. Spray Irrigation Site with Soil Monitoring Requirements: LA303

| Parameter                            | Limit        | Units  | Limit Type          | Effective Period | Sample Type | Frequency | Notes |
|--------------------------------------|--------------|--------|---------------------|------------------|-------------|-----------|-------|
| Nitrogen, Total Annual Loading Rates | Monitor Only | lbacyr | Calendar Year Total | Jan-Dec          | Calculation | 1/year    | 1     |
| Organic Matter,                      | Monitor Only | %      | Calendar Year       | Jan-Dec          | Composite   | 1/year    | 2     |

|                                |              |          |                                    |         |           |        |   |
|--------------------------------|--------------|----------|------------------------------------|---------|-----------|--------|---|
| Total in Soil                  |              |          | Maximum                            |         |           |        |   |
| pH, 1 to 1 Soil to Water       | Monitor Only | SU       | Calendar Year Maximum              | Jan-Dec | Composite | 1/year | 2 |
| Phosphorus, BRAY-1 Ext in Soil | Monitor Only | ppm      | Calendar Year Maximum              | Jan-Dec | Composite | 1/year | 2 |
| Potassium, MH4AC, Exch in Soil | Monitor Only | ppm      | Calendar Year Maximum              | Jan-Dec | Composite | 1/year | 2 |
| Salts, Water Soluble in Soil   | 3.0          | mmhos/cm | Instantaneous Maximum Intervention | Jan-Dec | Composite | 1/year | 2 |

1. Calculate as flow-weighted sum of total annual mass Kjeldahl nitrogen and nitrate-plus-nitrite applied to site, divided by the acreage of the site. Limit applies to the sum of all sources of nitrogen applied to the site.
2. Sample before irrigation or application of commercial or other supplemental fertilizer. The composite shall consist of a mixture of 15-20 subsamples taken from a 0 to 8 inch core. At least one composite sample shall be collected for each 40 acres.

DRAFT