



STATE OF MINNESOTA

Minnesota Pollution Control Agency**Industrial Division****National Pollutant Discharge Elimination System (NPDES)/
State Disposal System (SDS) Permit MN0063436**

PERMITTEE: University of Minnesota
FACILITY NAME: Minnesota Library Access Center
RECEIVING WATER: Mississippi River (Class 2B,3C,4A,4B,5,6 water)

CITY OR TOWNSHIP: Minneapolis **COUNTY:** Hennepin
ISSUANCE DATE: **EXPIRATION DATE:**

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

The goal of this permit is to reduce pollutant levels in point source discharges and protect water quality in accordance with Minnesota and US statutes and rules, including Minn. Stat. chs. 115 and 116, Minn. R. chs. 7001, 7050, 7053, 7060, 7090, and the US Clean Water Act.

This permit is effective on the issuance date identified above, and supersedes the previous permit that was issued for this facility on May 1, 2007. This permit expires at midnight on the expiration date identified above.

Signature: _____
Jeff Udd, P.E. for The Minnesota Pollution Control Agency
Supervisor, Water Quality Permits Unit
Water Section
Industrial Division

Submit DMRs to:

Attention: Discharge Monitoring Reports
Minnesota Pollution Control Agency
520 Lafayette Rd N
St Paul, MN 55155-4194

Submit Other WQ Reports to:

Attention: WQ Submittals Center
Minnesota Pollution Control Agency
520 Lafayette Rd N
St Paul, MN 55155-4194

Questions on this permit?

- For DMR and other permit reporting issues, contact: Belinda Nicholas, 651-757-2613.
- For specific permit requirements or permit compliance status, contact: Eric Pederson, 651-757-2645.
- General permit or NPDES program questions, contact: MPCA, 651-282-6143 or 1-800-657-3938.

Table of Contents

Permitted Facility Description	3
Topographic Map of Permitted Facility	4
Summary of Stations and Station Locations	5
Limits and Monitoring Requirements	6
 Chapter 1. Ground Water Pumpout	 7
 Chapter 2. Surface Discharge Stations	 8
 Chapter 3. Total Facility Requirements	 10

Facility Description

The Minnesota Library Access Center (MLAC) is a four-story building with two levels below grade. The MLCA is located at 222 - 21st Avenue South, on the west bank of the University of Minnesota Twin Cities campus, Minneapolis, Hennepin County, Minnesota.

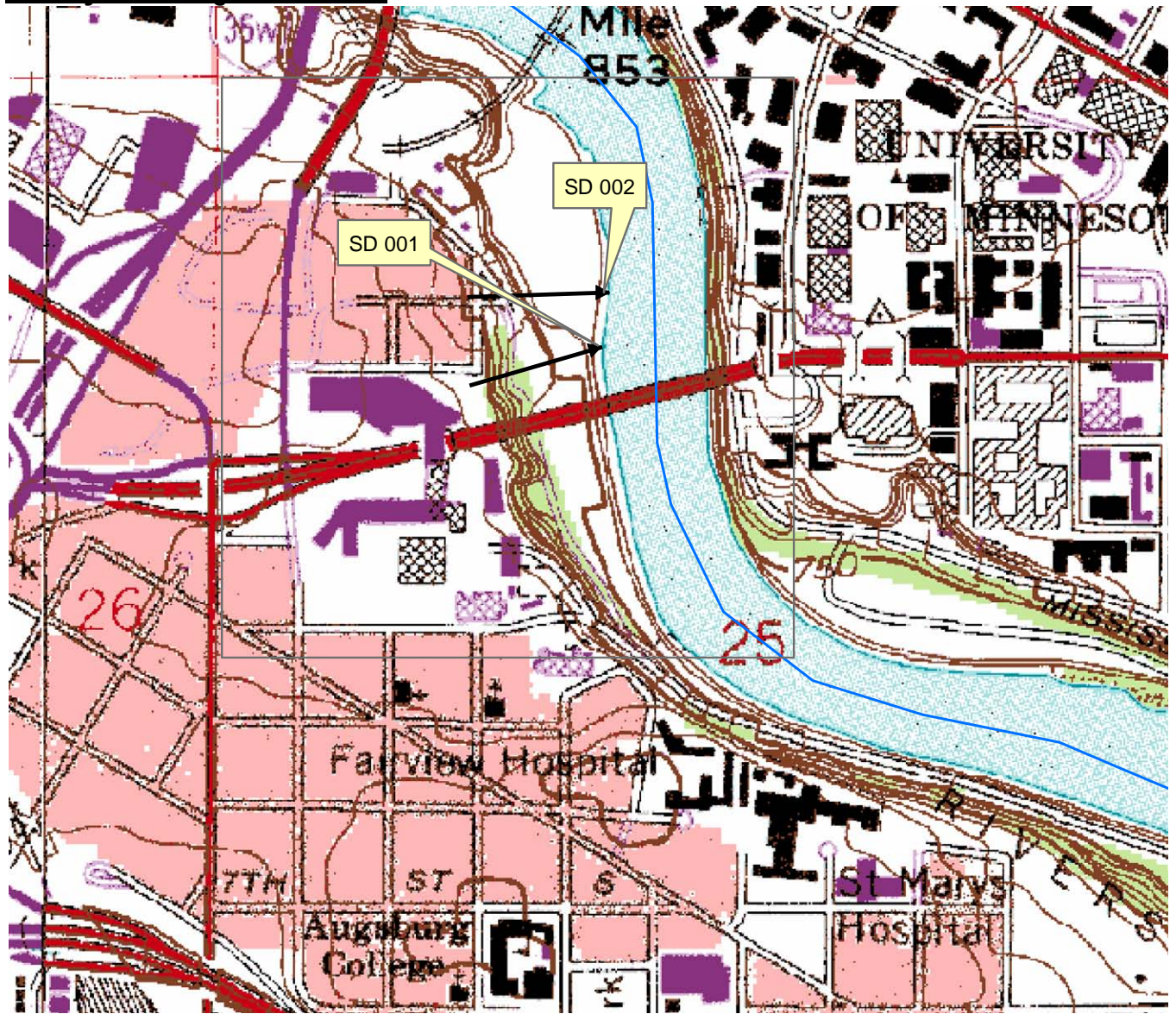
The lowest level of the building is located in the Platteville Limestone bedrock formation. Two underground mined storage caverns and associated cross cuts are located within the St. Peter Sandstone bedrock formation. Two vertical access shafts, a main shaft connecting the building to the caverns and an emergency egress shaft were constructed through the Platteville and Glenwood formations into the underlying St. Peter. There is an egress tunnel between the caverns and an egress shaft, as well as an access tunnel portal and underground service roadway (tunnel) for trucks to enter the facility.

An under-floor drain tile system was installed in the MLAC caverns to collect ground water from the St. Peter sandstone during high ground water conditions. On average, the ground water has been observed flowing from the system about six months of the year. The drain tile system discharges to the Mississippi River via the storm sewer system (Outfall SD 001) at an average flow rate is 10,000 gallons per day and a maximum flow rate of 19,000 gallons per day.

Forensic analysis performed as part of Phase II investigation indicated the presence of contaminants in the ground water. The assemblage of pollutants collected from ground water samples is typical of organic residuals and waste byproducts associated with manufactured gas processes. The contaminants identified include volatile organic compounds (both petroleum and non-petroleum related) semi-volatile organic compounds (primarily PAHs including naphthalene) total hydrocarbons (measured by DRO and GRO), cyanide and sulfide. The same basic contaminant assemblage was identified in soil underlying the former Minneapolis Gas Works Gas Holder No. 4, which is located approximately 500 feet upgradient of the MLAC site, on the University Athletic Field property. Gas Holder No. 4 was reportedly used to store purified manufactured gas as well as raw manufactured gas by the Minneapolis Gas Works before and after the property was conveyed to the University in 1959. In addition, low concentrations of chlorinated solvents have been detected in some ground water samples collected from the St. Peter Sandstone at the site. The specific source of those contaminants is unknown.

A ground water recovery well was installed up-gradient of the MLAC caverns to allow removal of contaminated ground water in the Platteville formation before it reaches the caverns. The contaminated ground water is treated by passing the water through liquid-phase carbon to remove dissolved-phase petroleum hydrocarbons. The carbon-adsorption system includes three carbon vessels that are designed to operate in series. Each vessel is loaded with 1,500 pounds of reactivated granular carbon. The effluent from the liquid-phase carbon discharges into a hydrogen sulfide (H₂S) removal system. The water passes through a series of aeration chambers to remove strippable H₂S. Treated water is then discharged to the Mississippi River via a deep tunnel storm sewer at an average rate of 43,200 gallons per day and a maximum rate of 86,400 gallons per day (Outfall SD 002). The air-effluent is passed through a vapor-phase carbon to remove H₂S prior to atmospheric discharge.

Facility/Discharge Locations:



DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT

Surface Discharge Stations

<u>Station</u>	<u>Type of Station</u>	<u>Local Name</u>	<u>PLS Location</u>
SD001	Storm Sewer To Surface Water	underfloor drain	SW Quarter of the NE Quarter of the NW Quarter of Section 25, Township 29 North, Range 24 West
SD002	Storm Sewer To Surface Water	Horizontal Recovery Well Discharge	SW Quarter of the NE Quarter of the NW Quarter of Section 25, Township 29 North, Range 24 West

DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT

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

SD 001: underfloor drain

Parameter	Limit	Units	Limit Type	Effective Period	Sample Type	Frequency	Notes
1,1-Dichloroethane	3.8	ug/L	Daily Average	Jan-Dec	Grab	1 x Year	
1,1-Dichloroethylene (Vinylidene chloride)	7	ug/L	Daily Average	Jan-Dec	Grab	1 x Year	
1,2-Dichloroethylene (cis-)	70	ug/L	Daily Average	Jan-Dec	Grab	1 x Year	
Flow	Monitor Only	mgd	Calendar Year Average	Jan-Dec	Measurement, Continuous	1 x Year	
Flow	Monitor Only	MG	Calendar Year Total	Jan-Dec	Measurement, Continuous	1 x Year	
Naphthalene	20	ug/L	Daily Average	Jan-Dec	Grab	1 x Year	
Organics, Diesel Range as diesel, Total	200	ug/L	Daily Average	Jan-Dec	Grab	1 x Year	
Organics, Gasoline Range as gasoline, Total	200	ug/L	Daily Average	Jan-Dec	Grab	1 x Year	
Trichloroethylene (TCE or Trichloroethene)	5	ug/L	Daily Average	Jan-Dec	Grab	1 x Month	

SD 002: Horizontal Recovery Well Discharge

Parameter	Limit	Units	Limit Type	Effective Period	Sample Type	Frequency	Notes
1,1-Dichloroethane	3.8	ug/L	Daily Average	Jan-Dec	Grab	1 x Year	
1,1-Dichloroethylene (Vinylidene chloride)	7	ug/L	Daily Average	Jan-Dec	Grab	1 x Year	
1,2-Dichloroethylene (cis-)	70	ug/L	Daily Average	Jan-Dec	Grab	1 x Year	
Flow	Monitor Only	mgd	Calendar Year Average	Jan-Dec	Measurement, Continuous	1 x Year	
Flow	Monitor Only	MG	Calendar Year Total	Jan-Dec	Measurement, Continuous	1 x Year	
Naphthalene	20	ug/L	Daily Average	Jan-Dec	Grab	1 x Year	
Organics, Diesel Range as diesel, Total	200	ug/L	Daily Average	Jan-Dec	Grab	1 x Year	
Organics, Gasoline Range as gasoline, Total	200	ug/L	Daily Average	Jan-Dec	Grab	1 x Year	
Trichloroethylene (TCE or Trichloroethene)	5	ug/L	Daily Average	Jan-Dec	Grab	1 x Month	

DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT

Chapter 1. Ground Water Pumpout

1. Authorization

- 1.1 The permittee is authorized to discharge treated, contaminated groundwater in accordance with, and in compliance with, the terms and conditions of this permit.

2. Sampling and Analyses

- 2.1 Samples and measurements required by this Permit shall be conducted in accordance with the conditions contained herein and accordance with the limits and monitoring section of this permit.
- 2.2 All sampling, sample preservation, and analyses must be conducted according to test procedures under 40 CFR Part 136, unless other test procedures have been specifically authorized herein. Test methods that have been approved by EPA for use for groundwater monitoring in other programs (e.g., solid waste), such as EPA SW-846 Method 8021 may also be used.
- 2.3 Grab sample collection is required based on procedures recommended in the latest version of the EPA Handbook for Sampling and Sample Preservation of Water and Wastewater.
- 2.4 The modified Wisconsin method Diesel Range Organics (DRO) shall be used for petroleum hydrocarbon constituents, including but not necessarily limited to: gasoline, diesel fuel, fuel oil, kerosene, crude oil and jet fuel.
- 2.5 Analytic methods for Benzene shall be of a purge and trap gas chromatographic method, such as EPA Method 602, or a purge and gas chromatographic/mass spectrometric method such as EPA Method 624 or 1624; or MN Health Department Method 465E. The permittee may also use EPA methods 5030/8015, 5030/8020, or 5030/8240 or updates to those methods.
- 2.6 This Permit authorizes the use of EPA Method 8240 (and/or an update to this method) as a substitute or equivalent for EPA Methods for wastewater analyses 602, 624, or 1624. Method 8240 is described in Test Methods for Evaluating Solid Waste Volume IA: Laboratory Manual Physical/Chemical Methods.

3. Special Requirements

Chemical Additives

- 3.1 The Permittee is approved for the use of chlorine to control the growth of micro-organisms added to the wells at the rate indicated on the application form.
- 3.2 The permittee shall receive written approval prior to the use of any chemical additive not herein approved. The request shall submitted to the MPCA (Industrial Division/WQ Permitting), and shall include the Material Safety Data Sheets, product labels with usage instructions, a listing of chemicals and percentages of each constituent contained in the additive, and the proposed dosage rate and frequency of application. Proprietary information on the chemical makeup of the product may be submitted directly to the MPCA staff permit writer.
- 3.3 This permit may be modified to incorporate an effluent limitation for total residual oxidant (as Chlorine) and to incorporate monitoring and reporting for this constituent.

Application for Reissuance

- 3.4 The applicant shall provide a description of the treatment system which will be used to meet the best available technology economically achievable (BAT) pollutant reduction/ removal criteria.
- 3.5 The permittee shall include a certification report certifying the adequacy of each component of the proposed treatment facility. The certification report shall describe accepted engineering practices on how the process and physical design of the treatment works will ensure compliance with the applicable effluent limitations contained here.
- 3.6 The design engineer shall affix his/her signature and professional engineering license number to the certification report.

DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT

Chapter 1. Ground Water Pumpout

3. Special Requirements

- 3.7 Prior to submitting the application, the permittee shall have developed a Treatment Operations Plans which shall include, at a minimum:
- 1) a description of how the processes employed and physical design of the treatment works will ensure compliance with the effluent limitations contained herein;
 - 2) a contingency plan to be activated in the event of an emergency, including measures for the protection of health and safety of employees and the public; and
 - 3) provisions for system shutdown and start-up.
- 3.8 Prior to submitting the application, the permittee shall have developed a sampling plan, which at a minimum shall include:
- 1) a sampling schedule;
 - 2) method(s) for taking an uncontaminated sample which is representative of the discharge;
 - 3) influent and effluent sampling locations; and
 - 4) procedures for ensuring analysis is conducted in accordance with the requirements of this permit and 40 CFR Part 136.
- 3.9 The report shall also certify that:
- a) all of the treatment works' startup and operation instruction manuals are adequate and available to operating personnel,
 - b) all treatment facility maintenance and testing schedules are included in the Treatment Operation Plan, and
 - c) effluent sampling location(s) and port(s) are located in an area where samples representative of the waste stream to be can be obtained.

4. Best Available Technology Economically Achievable

- 4.1 All groundwater shall be processed through a treatment system with a removal efficiency of greater than ninety-five percent.
- 4.2 The permittee shall install and operate a treatment system for pollutant removal to demonstrate compliance with permitted effluent tlmitations. Attainment of effluent limitations cannot be satisfied through the use of non-treatment techniques such as flow augmentation and in-stream mechanical aerators

Chapter 2. Surface Discharge Stations

1. Requirements for Specific Stations

- 1.1 SD 001: Submit an annual DMR annually by January 22 of each year following permit issuance.
- 1.2 SD 002: Submit an annual DMR annually by January 22 of each year following permit issuance.

2. Prohibited Discharges

- 2.1 The permittee shall not discharge sludges, suspended solids, or settleable solids to surface waters of the state during periodic cleaning of the air stripper, or any other treatment component.

3. Sampling Location

- 3.1 Samples for station SD 001 shall be representative of the underfloor drain and shall be taken at the manhole prior to discharge to the storm sewer.
- 3.2 Samples for Station SD 002 shall be representative of the horizontal well discharge and shall be taken at the manhole prior to discharge to the Mississippi River.
- 3.3 Samples and measurements required by this permit shall be representative of the permitted activity.

DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT

Chapter 2. Surface Discharge Stations

3. Sampling Location

3.4 Samples taken to demonstrate compliance with the effluent limitations contained herein shall be representative of the discharge to surface waters.

4. Sampling Frequency

4.1 If the permittee monitors more frequently than required, the results and the frequency of the additional monitoring shall be reported on the Discharge Monitoring Report form for that reporting period.

5. Sampling Protocol

5.1 The permittee may take any number of samples during the month to analyze for pH levels in the discharge. pH is not subject to averaging; and samples for pH shall not be composited. The permittee shall report the maximum and minimum levels of pH recorded during the calendar month on the discharge monitoring report forms.

6. Surface Discharges

6.1 Floating solids or visible foam shall not be discharged in other than trace amounts.

6.2 Oil or other substances shall not be discharged in amounts that create a visible color film.

6.3 The discharge shall not cause or contribute to a material increase in undesirable slime growths or aquatic plants, including algae.

6.4 The discharge shall not in any manner render the receiving water unsuitable for secondary body contact.

6.5 Pollutant levels in the discharge shall not impair the receiving water for its designated beneficial uses.

6.6 All discharges to surface waters shall:

Be free of toxic in toxic amounts;

Be free of discoloration that causes nuisance or adversely affects beneficial uses;

Be free of substances that would degrade the receiving water's aesthetic qualities;

Be free of floating or noxious materials in amounts that could cause or contribute to nuisance conditions or adversely affect Mississippi River's designated beneficial uses.

7. Winter Sampling Conditions

7.1 The Permittee shall sample flows at the designated monitoring stations including when this requires removing ice to sample the water. If the station is completely frozen throughout a designated sampling month, the Permittee shall check the "No Discharge" box on the Discharge Monitoring Report (DMR) and note the ice conditions in Comments on the DMR.

8. Discharge Monitoring Reports

8.1 The Permittee shall submit monitoring results for discharges in accordance with the limits and monitoring requirements for this station. If no discharge occurred during the reporting period, the Permittee shall check the "No Discharge" box on the Discharge Monitoring Report (DMR).

8.2 All applications, discharge monitoring reports forms, or other reports or information submitted to the MPCA shall be signed and certified.

8.3 All discharge monitoring reports or other reports or information required by the permit or requested by the agency shall be signed by a person prescribed above or by a duly authorized representative of that person. A person is a duly authorized representative only if: (1) The authorization is made in writing by a person described above and submitted to the agency and (2) The authorization specifies either an individual or a position having responsibility, including decision-making authority, for the overall operation of the regulated facility or activity, such as the position of plant manager, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company.

DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT

Chapter 2. Surface Discharge Stations

8. Discharge Monitoring Reports

8.4 All permit applications shall be signed as follows:

- a) For a corporation: by a responsible corporate officer. For the purpose of this permit, a responsible corporate officer means: (1) a president, secretary, treasurer or vice president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation; or (2) The manager of one or more manufacturing, production or operating facilities employing more than 250 persons or having a gross annual sales or expenditures exceeding 425 million, if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.
- b) For a partnership or sole proprietorship: by a general partner or the proprietor, respectively.
- c) For a municipality, county or other political subdivision: by a principal executive officer or ranking elected official; or
- d) For a state, federal or other public agency/agents: by a commissioner, assistant or deputy commissioner; director, assistant or deputy director.

Chapter 3. Total Facility Requirements

1. General Requirements

General Requirements

- 1.1 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. Sec. 115 and 116.
- 1.2 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, item E)
- 1.3 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, item A)
- 1.4 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)
- 1.5 Property Rights. This permit does not convey a property right or an exclusive privilege. (Minn. R. 7001.0150, subp. 3, item C)
- 1.6 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, item O)
- 1.7 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, item D)
- 1.8 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, item A)

DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT

Chapter 3. Total Facility Requirements

1. General Requirements

- 1.9 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, item B)
- 1.10 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.
- 1.11 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.
- 1.12 Inspection and Entry. When authorized by Minn. Stat. Sec. 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, item I)
- 1.13 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.

Sampling

- 1.14 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. (40 CFR 122.41 (j)(1))
- 1.15 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, item E)
- 1.16 Certified Laboratory. A laboratory certified by the Minnesota Department of Health 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. Stat. Sec. 144.97 through 144.98 and Minn. R. 4740.2010 and 4740.2050 through 4740.2120) (Minn. R. 4740.2010 and 4740.2050 through 2120)
- 1.17 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.
- 1.18 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, subp. 2, items B and C)

DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT

Chapter 3. Total Facility Requirements

1. General Requirements

- 1.19 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 (Minn. R. 7001.0150, subp. 2, item C):
- a. The exact place, date, and time of the sample or measurement;
 - b. The date of analysis;
 - c. The name of the person who performed the sample collection, measurement, analysis, or calculation; and
 - d. The analytical techniques, procedures and methods used; and
 - e. The results of the analysis.
- 1.20 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. (Minn. R. 7001.1090, subp. 1, item D; Minn. R. 7001.0150, subp. 2, item B)

Required forms may include:

DMR Supplemental Form

Individual values for each sample and measurement must be recorded on the DMR Supplemental Form which, if required, will be provided by the MPCA. DMR Supplemental Forms shall be submitted with the appropriate DMRs. You may design and use your own supplemental form; however it must be approved by the MPCA.

Note: Required summary information **MUST** also be recorded on the DMR. Summary information that is submitted **ONLY** on the DMR Supplemental Form does not comply with the reporting requirements.

- 1.21 Submitting Reports. DMRs and Supplementals shall be submitted to:

MPCA

Attn: Discharge Monitoring Reports
520 Lafayette Road North
St. Paul, Minnesota 55155-4194.

DMRs, DMR supplemental forms and related attachments may be electronically submitted via the MPCA Online Services Portal after authorization is approved. When electronically submitted, the paper DMR submittal requirement is waived.

DMRs and DMR Supplemental Forms shall be postmarked or electronically submitted by the 21st day of the month following the sampling period or as otherwise specified in this permit. Electronic DMR submittal must 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. (Minn. R. 7001.0150, subps. 2.B and 3.H)

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 55155-4194

DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT

Chapter 3. Total Facility Requirements

1. General Requirements

- 1.22 Incomplete or Incorrect Reports. The Permittee shall immediately submit an 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. (Minn. R. 7001.0150 subp. 3, item G)
- 1.23 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 must 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, must be certified by a registered professional engineer. (Minn. R. 7001.0540)
- 1.24 Detection Level. The Permittee shall report monitoring results below the reporting limit (RL) of a particular instrument as "<" the value of the RL. For example, if an instrument has a RL of 0.1 mg/L and a parameter is not detected at a value of 0.1 mg/L or greater, the concentration shall be reported as "<0.1 mg/L." "Non-detected," "undetected," "below detection limit," and "zero" are unacceptable reporting results, and are permit reporting violations. (Minn. R. 7001.0150, subp. 2, item B)

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:

- a. If one or more values are greater than the level of detection, substitute zero for all nondetectable values to use in the average calculation.
 - b. If all values are below the level of detection, report the averages as "<" the corresponding level of detection.
 - c. 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, subp. 2, item B)
- 1.25 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, subp. 3, item H)
- 1.26 Confidential Information. Except for data determined to be confidential according to Minn. Stat. Sec. 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 must follow Minn. R. 7000.1300.

Noncompliance and Enforcement

- 1.27 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. Sec. 115.071 and 116.072, including monetary penalties, imprisonment, or both. (Minn. R. 7001.1090, subp. 1, item B)
- 1.28 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, subp. 3, item G., 7001.1090, subps. 1, items G and H and Minn. Stat. Sec. 609.671)

DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT

Chapter 3. Total Facility Requirements

1. General Requirements

- 1.29 Noncompliance Defense. It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. (40 CFR 122.41(c))
- 1.30 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:
- a. a description of the event including volume, duration, monitoring results and receiving waters;
 - b. the cause of the event;
 - c. the steps taken to reduce, eliminate and prevent reoccurrence of the event;
 - d. the exact dates and times of the event; and
 - e. steps taken to reduce any adverse impact resulting from the event. (Minn. R. 7001.0150, subp. 3k)
- 1.31 Unauthorized Releases of Wastewater Prohibited. Except for conditions specifically described in Minn. R. 7001.1090, subp. 1, items J and K, all unauthorized bypasses, 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. (40 CFR 122.41 and Minn. Stat. Sec 115.061)

DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT

Chapter 3. Total Facility Requirements

1. General Requirements

1.32 Discovery of a release. Upon discovery of a release, the Permittee shall:

- a. Take all reasonable steps to immediately end the release.
- b. Notify the Minnesota Department of Public Safety Duty Officer at 1(800)422-0798 or (651)649-5451 (metro area) immediately upon discovery of the release. You may contact the MPCA during business hours at 1(800)657-3864 or (651)296-6300 (metro area).
- 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 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.
- d. 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.
- e. Submit the sampling results as directed by the MPCA. At a minimum, the results shall be submitted to the MPCA with the next DMR.

1.33 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:

- a. The specific cause of the upset;
- b. That the upset was unintentional;
- c. That the upset resulted from factors beyond the reasonable control of the Permittee and did not result from operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventative maintenance, or increases in production which are beyond the design capability of the treatment facilities;
- d. That at the time of the upset the facility was being properly operated;
- e. That the Permittee properly notified the Commissioner of the upset in accordance with Minn. R. 7001.1090, subp. 1, item I; and
- f. That the Permittee implemented the remedial measures required by Minn. R. 7001.0150, subp. 3, item J.

Operation and Maintenance

DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT

Chapter 3. Total Facility Requirements

1. General Requirements

- 1.34 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.
- 1.35 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, subp. 1, item C)
- 1.36 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 and Minn. R. 7041 and applicable federal and state solid waste rules)
- 1.37 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. subp. 3, item F and Minn. R. 7001.0150. subp. 2, item B)
- 1.38 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. subp. 3, item F and Minn. R. 7001.0150. subp. 2, item B)

Changes to the Facility or Permit

- 1.39 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. (Minn. R. 7001.0030)

Permittees that propose to make a change to the facility or discharge that requires a permit modification must follow Minn. R. 7001.0190. If the Permittee cannot determine whether a permit modification is needed, the Permittee must 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.

- 1.40 No person required by statute or rule to obtain a permit may construct, install, modify, or operate the facility to be permitted except as provided under Minnesota Statutes, section 115.07, subdivisions 1 and 3, 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.
- 1.41 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.

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.

DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT

Chapter 3. Total Facility Requirements

1. General Requirements

- 1.42 Report Changes. The Permittee shall give advance notice as soon as possible to the MPCA of any substantial changes in operational procedures, activities that may alter the nature or frequency of the discharge, and/or material factors that may affect compliance with the conditions of this permit. (Minn. R. 7001.0150, subp. 3, item M)
- 1.43 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.

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:

- a. The process for which the additive will be used;
 - b. Material Safety Data Sheet (MSDS) 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 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
 - e. The proposed method of application, application frequency, concentration, and daily average and maximum rates of use. (Minn. R. 7001.0170)
- 1.44 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.
- 1.45 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.
- 1.46 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 122.44.1.2.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.
- 1.47 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, subp. 3, item N)

DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT

Chapter 3. Total Facility Requirements

1. General Requirements

- 1.48 Facility Closure. The Permittee is responsible for closure and post-closure care of the facility. The Permittee shall notify the MPCA of a significant reduction or cessation of the activities described in this permit at least 180 days before the reduction or cessation. The MPCA may require the Permittee to provide to the MPCA a facility Closure Plan for approval.

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.

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. Sec. 116.07, subd. 4)

- 1.49 Permit Reissuance. If the Permittee desires to continue permit coverage beyond the date of permit expiration, the Permittee shall submit an application for reissuance at least 180 days before 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.

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):

- 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.