

National Pollutant Discharge Elimination System/State Disposal System**MNG790000**

Permittee: Minnesota Pollution Control Agency
Facility name: Groundwater Pump-Out General Permit
Issuance date: May 1, 2022
Expiration date: April 30, 2027

The state of Minnesota, on behalf of its citizens through the Minnesota Pollution Control Agency (MPCA), authorizes Permittees seeking coverage under this general permit to discharge contaminated groundwater to surface waters of the state and/or to land 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: *Elise M. Doucette*

This document has been electronically signed.

Elise M. Doucette, Supervisor
Water Section
Industrial Division

for the Minnesota Pollution Control Agency

Submit eDMRs

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

Submit WQ reports to:

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

Or, by mail:

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

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

Questions on this permit?

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

<https://www.pca.state.mn.us/water/discharge-monitoring-reports>

For specific permit requirements, contact your compliance staff:

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

Wastewater Permit Program general questions, contact:

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

Table of Contents

	Page
1. Permitted facility description.....	3
2. Summary of stations and station locations	5
3. Permit requirements	6
4. Submittal action summary.....	27
5. Limits and monitoring.....	28
6. Appendices.....	33

1. Permitted facility description

The Contaminated Groundwater Pump-Out general permit will be used as a mechanism to regulate the discharge of groundwater which has been contaminated by past or present activities. These wastewaters are resulting from groundwater dewatering that's being conducted to accommodate a range of activities which can include construction, redevelopment or remedial cleanup at or near contaminated sites. The types of contamination include toxic or hazardous materials, which have been released to, or leached into the groundwater. Contamination compounds covered includes the two general classes of petroleum based products and volatile organic compounds associated with solvents and degreasing agents. Specifically approved contaminants can be found in the Limits and Monitoring for Contaminant Categories, located in the appendix of the permit.

All applicants are required to determine and identify all contamination chemical of concern (COCs) that may impact the pumpout groundwater. Determinations of the COCs shall be submitted with supporting data based upon contamination area(s) information sources such as Phase I and Phase II Environmental Site Assessments, auxiliary sampling, and/or by analyzing groundwater using the U.S. Environmental Protection Agency Priority Pollutants List, 40 CFR pt. 423, Appendix A.

This general permit authorizes treatment and controlled discharge of contaminated groundwater to both surface waters and to land throughout the state, except for those waters and lands specifically prohibited by the permit. For the purposes of this general permit, on-land disposal of treated groundwater includes infiltration galleries, seepage ponds, land application, in-situ operations or other means approved by the Minnesota Pollution Control Agency (MPCA). The permitted facilities are grouped into 3 categories:

Category I Remediation-Related Groundwater: This category covers treated groundwater discharges associated with remediation activities. Facilities in this category are contaminated site clean-up or redevelopment with MPCA remediation program oversight.

Category II Long-Term Dewatering: This category covers treated groundwater discharges associated with a building foundation or construction/redevelopment that lasts longer than one year. This type of discharge may or may not have MPCA remediation staff oversight.

Category III Short-Term Construction Dewatering: This category covers dewatering discharges from short-term construction projects which may or may not implement full-scale treatment continuously. These discharges typically last less than one year, but since discharges may be intermittent and may not begin with permit reissuance, the permit writer has discretion on determining which discharges fit into this category. The extent of the utilization of the contaminant treatment system and controls can be adjusted to accommodate the contamination level variations within the groundwater encountered, but the limits in the permit must be attained at all times. Category III discharges are not eligible for discharge to land and require monthly sampling and analysis.

The general permit coverage does not preclude nor replace the need for coverage under a permit authorizing the discharge of stormwater associated with concurrent construction activities when required by the Clean Water Act and or Minn. R. ch. 7090. This general permit coverage would be in addition to any coverage required under state and or federal rules and regulations pertaining to the discharge of stormwater associated with construction stormwater general permit.

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

water antidegradation requirements found in Minn. R. 7050.0250 to 7050.0335, or the nondegradation of groundwaters requirements found in Minn. R. 7060.

This Permit also complies with Minn. R. 7053.0275 regarding anti-backsliding. Any point source discharger of sewage, industrial, or other wastes for which a NPDES permit has been issued by the MPCA that contains effluent limits more stringent than those that would be established by Minn. R. 7053.0215 to 7053.0265 shall continue to meet the effluent limits established by the permit, unless the permittee establishes that less stringent effluent limits are allowable pursuant to federal law, under section 402(o) of the Clean Water Act, United States Code, title 33, section 1342.]

2. Summary of stations and station locations

Station	Type of station	Local name
SD 001	Effluent To Surface Water	Category I - Remediation Related Discharge
SD 002	Effluent To Surface Water	Category II - Long Term Dewatering Discharge
SD 003	Effluent To Surface Water	Category III - Short Term Construction Discharge
WS 001	Internal Waste Stream	Intermediate Waste Stream
WS 002	Intermediate: WW to Land	Non Surface Water Discharge

3. Permit requirements

SD 001	Effluent To Surface Water	
		Surface Discharge Station: Category I - Remediation Related Groundwater Discharge
	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 SD001 shall be taken at: the point of discharge from the treatment system prior to combining with any other waste stream or receiving water. [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)]
	5.1.5	Parameters that have a monitoring frequency of once per quarter and an effective period of Mar, June, Sept, Dec may be collected any time during that quarter. The sample data must be reported on the March, June, September, and December sample value spreadsheets and DMRs. [Minn. R. 7001.0150, Subp. 2(B)]
	5.1.6	Parameters that have a monitoring frequency of once per year and an effective period of Jan-Dec may be collected any time during the calendar year. The sample data must be reported on the sample value spreadsheets and DMRs on the month the sample was taken. [Minn. R. 7001.0150, Subp. 2(B)]
	5.1.7	Total phosphorus measured in samples collected at SD001 shall use an analytical method approved under 40 CFR 136 that can meet a Reporting Limit (RL) of 0.01mg/l. [Minn. R. 7001.1080, Subp. 5]
SD 002	Effluent To Surface Water	
		Surface Discharge Station: Category II - Long-Term Dewatering Discharge
	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 SD002 shall be taken at: the point of discharge from the treatment system prior to combining with any other waste stream or receiving water. [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)]
	5.2.5	Parameters that have a monitoring frequency of once per year and an effective period of Jan-Dec may be collected any time during the calendar year. The sample data must be reported on the sample value spreadsheets and DMRs on the month the sample was taken. [Minn. R. 7001.0150, Subp. 2(B)]
	5.2.6	Total phosphorus measured in samples collected at SD002 shall use an analytical method approved under 40 CFR 136 that can meet a Reporting Limit (RL) of 0.01mg/l. [Minn. R. 7001.1080, Subp. 5]
		Facility Specific Requirements
	5.3.7	Parameters that have a monitoring frequency of once per quarter and an effective period of Mar, June, Sept, Dec may be collected any time during that quarter. The sample data must be reported on the March, June, September, and December sample value spreadsheets and DMRs. [Minn. R. 7001.1080, Subp. 5]

SD 003	Effluent To Surface Water	
Surface Discharge Station: Category III - Short-Term Dewatering Discharge		
5.4.1		The Permittee shall submit a monthly DMR: Due by 21 days after the end of each calendar month following permit issuance. [Minn. R. 7001.0150, Subp. 2(B)]
5.4.2		Sampling Location. [Minn. R. 7001.0150, Subp. 2(B)]
5.4.3		Samples for Station SD003 shall be taken at: the point of discharge from the treatment system prior to combining with any other waste stream or receiving water. [Minn. R. 7001.0150, Subp. 2(B)]
5.4.4		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)]
5.4.5		Parameters that have a monitoring frequency of once per year and an effective period of Jan-Dec may be collected any time during the calendar year. The sample data must be reported on the sample value spreadsheets and DMRs on the month the sample was taken. [Minn. R. 7001.0150, Subp. 2(B)]
5.4.6		Total phosphorus measured in samples collected at SD003 shall use an analytical method approved under 40CFR 136 that can meet a Reporting Limit (RL) of 0.01mg/l. [Minn. R. 7001.1080, Subp. 5]
WS 001	Internal Waste Stream	
Waste Stream Station: Intermediate Waste Stream		
5.5.1		The Permittee shall submit a monthly DMR: Due by 21 days after the end of each calendar month following permit issuance. [Minn. R. 7001.0150, Subp. 2(B)]
5.5.2		Sampling Location. [Minn. R. 7001.0150, Subp. 2(B)]
5.5.3		Samples for Station WS001 shall be taken at: the point specified in the Notice of Coverage. [Minn. R. 7001.0150, Subp. 2(B)]
5.5.4		The Permittee shall submit monitoring results in accordance with the limits and monitoring requirements for this station. If conditions are such that no sample can be acquired, the Permittee shall report "No Flow" or "No Discharge" on Discharge Monitoring Report (DMR) and shall add a Comments attachment to the DMR detailing why the sample was not collected. [Minn. R. 7001.0150, Subp. 2(B)]
WS 002	Intermediate: WW to Land	
Waste Stream Station: Non-Surface Water Remediation Discharge		
5.6.1		The Permittee shall submit a monthly DMR: Due by 21 days after the end of each calendar month following permit issuance. [Minn. R. 7001.0150, Subp. 2(B)]
5.6.2		Sampling Location. [Minn. R. 7001.0150, Subp. 2(B)]
5.6.3		Samples for Station WS002 shall be taken at: the point of discharge from the treatment system prior to combining with any other waste stream or receiving water. [Minn. R. 7001.0150, Subp. 2(B)]
5.6.4		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)]
5.6.5		Parameters that have a monitoring frequency of once per quarter and an effective period of Mar, June, Sept, Dec may be collected any time during that quarter. The sample data must be reported on the March, June, September, and December sample value spreadsheets and DMRs. [Minn. R.

		7001.0150, Subp. 2(B)]
MNG790000	Groundwater Pump-Out General Permit	
		Contaminated Groundwater Pumpout General Permit Requirements
	5.7.1	Applicability. [Minn. R. 7001]
	5.7.2	The MNG790000 Contaminated Groundwater Pump-Out General Permit (General Permit) is available for existing and future applicants proposing to discharge treated groundwater that is being remediated as a result of pollutants released from the transportation, storage, disposal, spilling and/or leaking of petroleum products and from discharges related to releases at industrial facilities including, but not limited to, gasoline, diesel fuel, kerosene, or heating oil, volatile and semi-volatile organic compounds. [Minn. R. 7001.0210]
	5.7.3	Permitted facilities may be either long or short term dischargers, and will fall under one of three primary categories based upon the proposed activity, duration of discharge, and the level of involvement of the MPCA Remediation Division. Below is a general outline and description of the various categorizations. [Minn. R. 7001.0210]
	5.7.4	Long-Term Discharges The General Permit authorizes Category I and II applicants to discharge groundwater from gasoline-, petroleum-, and/or volatile organic compounds-related corrective actions providing that: A. Groundwater has been treated using best available technology economically achievable (BAT), as described herein; B. The groundwater contains only pollutants for which treatment efficiency and discharge quality can be adequately characterized by the pollutants and/or indicator compounds regulated herein or controlled by the BAT (Best Available Technology) system employed; and C. The facility has been determined by the MPCA not to require individual permit authorization. D. Discharges proposed to discharge for more than two years. [Minn. R. 7001.0210]
	5.7.5	Short-Term Discharges The General Permit authorizes Category III applicants to discharge contaminated, or potentially contaminated, groundwater encountered during construction activities, where contaminant removal is incidental to the main project activity. The MPCA retains the right to deny Category III coverage to a Category III applicant based upon site specific conditions. [Minn. R. 7001.0210]
	5.7.6	Category I Remediation-Related Groundwater. [Minn. R. 7001.0210]
	5.7.7	The applicability of the General Permit for Category I shall be limited to discharges from groundwater removal systems designed to remediate a defined groundwater contamination plume with known aquifer characteristics. Treated wastewaters in this category may be discharged to approved surface waters and land application sites. These remediation activities are based on completed site investigations with MPCA oversight providing that: A. Groundwater has been treated using best available technology economically achievable (BAT), which may include, but is not necessarily limited to: multi-stage activated carbon, air stripping (i.e., packed tower, multiple tray, etc.), ultra violet/oxidation, or biological treatment system, any of which may be used in conjunction with in-situ bioremediation; B. Groundwater contains only pollutants for which treatment efficiency and discharge quality can be adequately characterized by the pollutants and/or indicator compounds regulated herein or controlled by the BAT system employed; C. Treatment used can meet the discharge limits described in the Limits & Monitoring Section; and D. Have been determined by the MPCA not to require individual permit authorization. E. Duration of discharges may be either long or short term facilities. [Minn. R. 7001.0210]
	5.7.8	Category II - Long-Term Dewatering. [Minn. R. 7001.0210]
	5.7.9	The General Permit is available for existing and future applicants proposing long-term treatment and discharges of groundwater that has been impacted from known and unknown sources of groundwater contamination. In general, long-term discharges will be facilities that will have

	discharges lasting for a period of two years or more. These Permittees may or may not have MPCA oversight of remediation activities. Some examples of the types of facilities which would fall under this category include building foundation dewatering, contaminant plume migration control, and extended construction dewatering projects. [Minn. R. 7001.0210]
5.7.10	The applicability of the General Permit for Category II applicants shall include discharges of groundwater from long-term groundwater dewatering activities providing that: A. Groundwater has been treated using best available technology economically achievable (BAT), which may include, but is not necessarily limited to: multi-stage activated carbon, air stripping (i.e., packed tower, multiple tray, etc.), ultra violet/oxidation, or biological treatment system, any of which may be used in conjunction with in-situ bioremediation; B. Groundwater contains only pollutants for which treatment efficiency and discharge quality can be adequately characterized by the pollutants and/or indicator compounds regulated herein or controlled by the BAT system employed; C. Discharges are allowed treatment used can meet the discharge limits described in the limits & monitoring section; D. Treated wastewaters in this category may be discharged to approved surface waters and land application sites; and E. Have been determined by the MPCA not to require individual permit authorization. [Minn. R. 7001.0210]
5.7.11	Category III Short-Term Construction Dewatering. [Minn. R. 7001.0210]
5.7.12	The Category III designation is applicable for existing and future construction dewatering activities where contaminated groundwater removal is incidental to the main project activity and site activities may, or may not, have MPCA oversight. Construction dewatering does not include discharges associated with groundwater cleanup activities, whether active or pending, including bailing, aquifer monitoring or investigating. Category III coverage is not available for on-going discharges following construction completion or stabilization, including continued groundwater extraction to protect underground structures or vaults. [Minn. R. 7001.0210]
5.7.13	The applicability of the General Permit for Category III applicants shall be limited to the discharge of pollutants regulated by this general permit where contaminant removal is incidental to the main project activity. The General Permit does not take the place of other required permits, such as a construction stormwater permit or relieve the Permittee from conducting MPCA remediation directed activities. [Minn. R. 7001.0210]
5.7.14	Total Suspended Solids (TSS), which may contain pollutants of concern from construction dewatering activities, shall be restricted in accordance with the approved plans and specifications such that TSS is controlled at all times during permitted activities. [Minn. R. 7001.0210]
5.7.15	Land Infiltration Sites. [Minn. R. 7001.1080]
5.7.16	Land infiltration sites include those discharges that utilize infiltration galleries, land application sites and other discharges designed to infiltrate to the subsurface and would therefore be considered as discharges to groundwaters. These discharges are to be conducted in a manner that is protective of the groundwater resources. [Minn. R. 7001.1080, Minn. R. 7060, Minn. Stat. ch. 115.01]
5.7.17	Only Category I and II discharges are allowed to be discharged to groundwater, infiltration galleries, land applied or otherwise designed to infiltrate treated contaminated groundwater into the subsurface. [Minn. R. 7001.1080]
5.7.18	Land infiltration discharges shall occur in an area defined as acceptable for such discharges by the MPCA Remediation Division. [Minn. R. 7001.0210, Minn. R. 7001.1080]
5.7.19	Applying for Coverage-Notice of Intent (NOI). [Minn. R. 7001]
5.7.20	Any discharger seeking coverage under the General Permit shall submit a Notice of Intent (NOI) in a format determined by the MPCA. The NOI must include the following forms, which are available on the MPCA website at: https://www.pca.state.mn.us/water/wastewater-permit-forms : Water Quality Transmittal form (wq-wwprm7-03); Industrial Groundwater Pump-Out Application (wq-wwprm7-29); and a Permit application checklist for miscellaneous waste types (wq-wwprm7-04c). Additional applications or submittals must also be submitted as necessary to adequately describe the proposed permitted activity. Apply for General Permit coverage 180 days prior to the expected

		date of the discharge. [Minn. R. 7001.0050, Minn. R. 7001.0210, Minn. R. 7001.1040]
5.7.21		The Transmittal Form shall contain an authorized signature certifying under penalty of law that the Form and all attachments were prepared "under my direction or supervision and the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I have read the applicability criteria for coverage under the general permit and certify that the discharge qualifies for coverage. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.". [Minn. R. 7001.0050, Minn. R. 7001.0210]
5.7.22		The Permit Application Checklist for Miscellaneous Waste Types shall be filled out and the applicant shall indicate the items applicable to the proposed facility. As indicated on this application, those additional items indicated as needing to be addressed or provided shall be included in the initial application materials at time of submittal. [Minn. R. 7001.0050]
5.7.23		Contaminated Groundwater Pump-Out NOI and Supplemental Information The NOI form for contaminated groundwater pump-out shall be submitted with the appropriate supporting information. The NOI is subject to change and therefore the applicant is to use the most up to date version of the NOI. Minimum informational items and documents to be submitted are outlined below. [Minn. R. 7001.0050]
5.7.24		Cover Letter Along with the application forms, the applicant shall include a cover letter expressing the intent to secure coverage under the General Permit including justification for why the discharge is eligible for coverage and a short facility description. [Minn. R. 7001.0050]
5.7.25		Facility Details The applicant shall include, either on or with the application the following information: A. Legal name and address of owner or operator; B. Facility/activity/project name and physical location; C. Past (or present) activities/businesses which are known or believed to be the cause of the groundwater contamination (e.g., dry cleaner, former gas station); D. The average and maximum daily flow rates of the discharge. Indicate if the flows will be intermittent or continuous; E. Qualitative data on pollutants which are known or believed to be present in the discharge. Copies of laboratory reports and chain of custody forms shall be included in the application package. Historic remedial pollutant information may be summarized and presented, while the supporting remediation documentation be available upon request; and F. The date on which the discharge activity is expected to begin. Applicants applying for coverage for construction dewatering activities shall also include the expected end date for construction dewatering activities. [Minn. R. 7001.0050]
5.7.26		Surface Water Information The applicant shall provide the name of the receiving water body into which the waste stream shall be discharged and include a detailed map (preferably a 7-1/2 minute series U.S. Geological Survey map) showing the physical locations of the water source, latitude and longitude of point surface water outfall, treatment system, and the flow route of the discharge from dewatering location, to treatment facility, and the point of discharge to the surface water. [Minn. R. 7001.0050, subp.(H)]
5.7.27		Special Waters Dischargers Information Applicants proposing to discharge to one of the special waters, which includes wetlands and Outstanding Resource Value Water-Restricted (ORVW-R) waters, shall include the additional information required for these waters in the NOI. Information requirements are provided in the "Special Waters Discharges and NOI Supplemental Requirements" section of this permit. [Minn. R. 7050]
5.7.28		Storm Sewer Drainage Information Additional information is required for facilities that intend to utilize a storm water drainage system, or drain tile system, to convey waters to the discharge point. The applicant shall provide the following information: A. The name of the owner of the storm sewer, storm drainage system, or drain tile system; B. The name of the receiving water into which the drainage system/storm sewer discharges, along with the Latitude/Longitude of the outfall; C. A detailed map showing the route to surface water within the sewer; and D. A copy of the permit, license or approval notice granting the Permittee authorization to connect

	to and discharge via said system. [Minn. R. 7001.0050, subp.(H)]
5.7.29	<p>Groundwater Dischargers Supplemental Information Facilities proposing discharges to groundwater through land application processes are required to include an infiltration plan. The plan shall include the results of a site investigation of the land application area. Discussions shall address the following:</p> <ul style="list-style-type: none"> A. Soil and bedrock analysis, B. Potential Karst Conditions, C. Application rate determination, D. Risk to down-gradient groundwater receptors; and, E. Other site-specific conditions. [Minn. R. 7001.0050, subp.(H)]
5.7.30	<p>Treatment System 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. For Category I and II applicants, if a treatment technology other than a granular activated carbon process or air-stripping process shall be employed, the Permittee shall provide documentation on the system's demonstrated capability to meet the effluent limitations contained herein. [Minn. R. 7001.0050]</p>
5.7.31	<p>Treatment Facility Certification The applicant 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. The report shall also certify that:</p> <ul style="list-style-type: none"> 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. The design engineer shall affix their signature and professional engineering license number to the certification report. [Minn. R. 7001.0050, Minn. R. 7001.0060]
5.7.32	<p>Treatment Facility Operation Plan Prior to applying for coverage, the applicant shall have developed a treatment operations plan which shall include, at a minimum:</p> <ul style="list-style-type: none"> A. Description of how the processes employed and physical design of the treatment works will ensure compliance with the effluent limitations contained herein; B. 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 C. Provisions for system shutdown and start-up. [Minn. R. 7001.0050, Minn. R. 7001.0060]
5.7.33	<p>The applicant shall certify the adequacy of each component of the proposed treatment facility through review by a professional engineer licensed in Minnesota. The design engineer certifies that accepted engineering practices were used in determining the process and physical design of the treatment works, that the treatment works will ensure compliance with the applicable effluent limitations and that effluent sampling location(s) and port(s) are located in an area(s) where samples representative of the waste stream to be can be obtained. The design engineer shall engineer shall affix his/her signature and professional engineering license number to the application. [Minn. R. 7001.0050, subp.(H), Minn. R. 7001.0050, subp. I]</p>
5.7.34	<p>Sampling Plan Prior to submitting the application for coverage, the applicant shall have developed a sampling plan, which at a minimum shall include:</p> <ul style="list-style-type: none"> A. Sampling schedule; B. Method for taking an uncontaminated sample which is representative of the discharge; C. Influent and effluent sampling locations; and D. Procedures for ensuring analysis is conducted in accordance with the requirements of this permit and 40 CFR Part 136. [Minn. R. 7001.0050, subp.(H)]
5.7.35	<p>TSS Best Management Practices (BMPs) for Category III Dischargers For Category III dischargers, the applicant shall provide technical details on the system(s) which will be employed to reduce pollutant levels in the discharge to ensure compliance with the effluent limitations contained</p>

	herein. This shall include the best management practices that will be employed to control TSS at all times. This includes discharge periods when only a portion of the treatment components are necessary for treatment of the other non-TSS contaminants of concern. [Minn. R. 7001.0050, subp.(H)]
5.7.36	Individual Permit. [Minn. R. 7001]
5.7.37	Individual Permit Submittals Facilities requiring or desiring permit conditions that are outside of the intent of this General Permit will be required to obtain an individual permit. Below is information on the reasons and means by which an individual permit may be issued to either an existing facility with the general permit, or a new permit coverage applicant. [Minn. R. 7001.0210, subp. 6]
5.7.38	Individual Permit If the MPCA finds that the operations, emissions, activities, discharges, or facilities of a permit applicant or a Permittee covered by a general permit would be more appropriately controlled by an individual permit, the MPCA shall issue an individual permit to the applicant or the Permittee. Upon issuance of the individual permit, the general permit previously applicable to the Permittee no longer applies. In considering whether it is appropriate to issue an individual permit, the MPCA shall consider: A. Whether the operations, emissions, activities, discharges, or facilities of the permit applicant or Permittee have characteristics creating the potential for significant environmental effects; B. Whether the Permittee has been in compliance with the terms of the General Permit and applicable statutes and rules; and C. Whether the operations, emissions, activities, discharges, or facilities have been altered such that they no longer fit within the category covered by the General Permit. Any interested person may petition the MPCA commissioner to take action under 40 C.F.R. § 122.28(b)(3)(i) to require a facility covered by the general permit to apply for and obtain an individual permit. [Minn. R. 7001.0210, subp. 6]
5.7.39	Individual Permit-Permittee Requested Any owner or operator authorized by or eligible for coverage under this General Permit may request exclusion from General Permit coverage by applying for and/or requesting an individual permit. The owner or operator shall submit the request to the MPCA 180 days before a new issuance or a desired modification to an existing General Permit. The individual permit request shall include the applicable application forms, other MPCA individual application forms, and any additional supporting information. Upon issuance of the individual permit, a General Permit previously applicable to the Permittee no longer applies to that Permittee. [Minn. R. 7001.0040, Minn. R. 7001.0050, Minn. R. 7001.0210, subp. 6]
5.7.40	Requested Change From General Permit to Individual Permit Upon issuance of an individual permit for any discharge which had previously been authorized by this General Permit, coverage under this General Permit shall no longer be applicable to the facility. The requirements of an individual permit may be different than the conditions of this General Permit providing such authorization will not cause a violation of water quality standards and is not inconsistent with anti-backsliding restrictions. [Minn. R. 7001.0170, Minn. R. 7001.0210, subp. 6, Minn. R. 7053.0275]
5.7.41	Permit Reissuance NOI. [Minn. R. 7001]
5.7.42	Facilities wishing to continue permit coverage shall submit a NOI to the MPCA including the information and forms listed above 180 days before the expiration date of the existing permit. Additional supplemental information shall include changes in the facility, contamination plume, dewatering rates and frequency, contamination level trends, developments in the area that may influence the groundwater flow direction or elevation, and other relevant information to determine reissuance. If the site is a reissuance for a Category I or II long-term dewatering activity that is also located in an area with multiple contaminant source categories, then the application shall be supplemented with an updated Priority Pollutant scan. [Minn. R. 7001.0040]
5.7.43	Authorization of Coverage. [Minn. R. 7001]
5.7.44	New Dischargers In order to constitute a valid authorization to discharge, the General Permit must be accompanied by a Notice of Coverage (NOC), issued by the MPCA, identifying the discharge as covered. Additionally, the NOC and permit shall include the unique General Permit number identifying the applicant as covered, as well as the effective General Permit coverage start date and

	expiration date. [Minn. R. 7001.0210]
5.7.45	Existing dischargers Existing dischargers with an administrative extension of coverage under the 2016 MNG79 Permit shall be authorized to discharge under this permit upon receipt of an MPCA reissued permit. A list of dischargers eligible for this administrative extension is provided in the fact sheet. [Minn. R. 7001.0725]
5.7.46	Permitted Discharges. [Minn. R. 7001.0210]
5.7.47	Receiving Waters Covered by this General Permit. [Minn. R. 7001.0210]
5.7.48	Waters of the State of Minnesota: This General Permit authorizes discharges of specified pollutants in limited amounts to the waters of the state, within Minnesota. [Minn. R. 7001.0210, Minn. Stat. ch. 115.01, subd. 22]
5.7.49	The effluent limitations are in part dependent on the designated uses of the receiving waters as identified in the State of Minnesota water quality standards (Minn. R. 7050). It is the Permittee's responsibility to identify into which water body the discharge will be received, and the designated beneficial uses of the receiving water(s) in the required NOI for coverage under this Permit. [Minn. R. 7001.0210]
5.7.50	Special Waters Discharges and NOI Supplemental Requirements. [Minn. R. 7001.0050, subp. 1-2, Minn. R. 7050.0275]
5.7.51	Outstanding Resource Value Waters-Restricted (ORVW-R) ORVW-R waters are waters listed in Minn. R. 7050.0335 Subp. 1 and 2. Discharges to these waters require the submittal of more detailed plans, specifications, and considerations utilized to attain necessary conditions as presented below. [Minn. R. 7050.0275, subp. 2(J), Minn. R. 7050.0335, subp. 2 (A)1-7]
5.7.52	ORVW-R NOI required supplemental information ORVW-R supplemental information is to be submitted for proposed discharges to ORVW-R waters as outlined below: A. Identification of surface waters and associated beneficial uses that will be adversely impacted by the regulated activity; B. Parameters likely to cause degradation; C. Length of time during which the water quality will be impacted, which must not exceed 12 months from when water quality is initially impacted by the proposed activity; D. A description of water quality at the time the exemption is requested using methods described in part 7050.0260 and anticipated net changes to water quality for parameters likely to cause adverse impacts over the time period the surface waters are impacted; E. A description of prevention, treatment, or loading offset alternatives that were considered to avoid and minimize net increases in loading or other causes of degradation and the reasons why the selected alternative was chosen; F. A description of how water quality will be returned to pre-activity conditions within 12 months from when water quality is initially impacted by the proposed activity; G. A description of any residual long-term impacts on existing uses; and H. A brief summary shall be provided that utilizes the above applicable information to support the proposition that the receiving ORVW-R water will not be adversely impacted by the discharge. [Minn. R. 7050.0275, subp. 2(A)1-7]
5.7.53	Notification Requirements for ORVW-R Dischargers Discharges to ORVW-R are prohibited unless the applicant can submit sufficient information to show that the discharge will be protective of the ORVW-R. Additionally, the discharge cannot exceed a discharge period of one year. The one year limitation period ends 364 days following the first day a discharge to the surface water occurs. NOI information must be supplemented with the following information as directed in Minn. R. 7050.0275 subp. 2.(A)(1) through (7). The Permittee shall submit the following notification to the MPCA if a discharge to an ORVW-R water is approved: A. Start date of ORVW-R discharge must be reported to the MPCA within 24 hours of the start of the discharge; B. The end date of the discharge and the number of days the discharge lasted, shall be reported to the MPCA within 24 hours of the discontinuation of the discharge; and C. The Permittee shall submit a report, within 2 weeks of facility closure, to the MPCA that demonstrates and discusses how the requirements of Minn. R. 7050.0275 subp. 2 (A) and D. were

	attained for the full extent of the discharge period and the following closure of the discharge facility. [Minn. R. 7050.0275, subp. 2(A), Minn. R. 7050.0275, subp. 2(D)]
5.7.54	<p>Reporting Requirements for ORVW-R Dischargers Discharges to ORVW-R waters shall provide timely reports on the activity related to the ORVW-R discharges to demonstrate compliance with the one year limitation for the activity. The following minimum reporting actions shall be conducted as follows:</p> <p>A. Start date of ORVW-R discharge must be reported to the MPCA within 24 hours of the start of the discharge;</p> <p>B. The end date of the discharge, and the number of days the discharge lasted, shall be reported to the MPCA within 24 hours of the discontinuation of the discharge; and</p> <p>C. The Permittee shall submit an ORVW-R discharge completion report, within 2 weeks of facility closure, to the MPCA that demonstrates and discusses how the requirements of Minn. R. 7050.0275 Subp. 2 (A) were attained for the full extent of the discharge period and the following closure of the discharge facility.</p> <p>Reports shall be submitted with the facility's eDMRs. [Minn. R. 7050.0275, subp. 2(A), Minn. R. 7050.0275, subp. 2(D)]</p>
5.7.55	<p>ORVW-R Plans Sites with proposed ORVW-R discharges shall supplement the operation and maintenance plans of the control structures, BMPs, and treatment facility plans and structure to address all the additional protective measures that are required to attain adequate protection of the ORVW-R environment. [Minn. R. 7050.0210]</p>
5.7.56	<p>Wetland Discharges Discharges to wetlands shall be controlled so as to prevent significant adverse impacts on beneficial uses caused by chemical, physical, and biological changes. Discharge plans shall include sufficient controls, treatment, and best management practices to achieve this protection to meet all requirements in Minn. R. 7050.0186.</p> <p>The "Impact compensation" provision, Minn. R. 7050.0186 subp. 6, is not eligible for coverage under this permit. Appropriate permitting or authorization for wetland impact compensation may be attained by another authorization means that also incorporates the activities of this permit. [Minn. R. 7050.0186, Minn. R. 7050.0186, subp. 6]</p>
5.7.57	<p>Wetland Discharges Plans Discharges to wetlands shall be controlled so as to prevent significant adverse impacts on beneficial uses caused by chemical, physical, and biological changes. Supplemental wetland discharge plans shall include sufficient controls, treatment, and best management practices to achieve this protection to meet all requirements in Minn. R. 7050.0186. [Minn. R. 7050.0186]</p>
5.7.58	<p>Prohibited Discharges. [Minn. R. 7001]</p>
5.7.59	<p>ORVW-Prohibited Facilities which propose to discharge directly to an Outstanding Resource Value Waters-Prohibited (ORVW-P) as described in Minn. R. 7050.0335 subp. 3, are not authorized for discharge by this General Permit. [Minn. R. 7050.0210, subp. 13, Minn. R. 7050.0335, subp. 4]</p>
5.7.60	<p>Prohibition of Discharge of Cross-contamination Contaminants of Concern (COC) This general permit was developed to cover the types of COCs commonly found at sites where groundwater is contaminated by petroleum or VOC-related compounds. Below is a broad list of potential cross-contamination pollutants that may be present at petroleum or VOC-based contamination sites in minor levels. Discharges of contaminated groundwater that contains one or more of these cross-contamination pollutants in such quantity or in such manner alone or in combination with other substances so as to cause a violation of the applicable standards is prohibited. [Minn. R. 7050.0210, subp. 13]</p>
5.7.61	<p>Agricultural chemicals Discharges from agricultural chemical based remediation projects which are characterized by such pollutants as pesticides, ammonia-nitrogen, nitrate-nitrogen, chlorides, and phosphorus are prohibited. [Minn. R. 7050.0210, subp. 13]</p>
5.7.62	<p>PCBs, Dioxins, Furans The purposeful or knowing discharge of polychlorinated biphenyls (PCBs), dioxins, or furans into the waters of the state in such quantity, or in such manner alone, or in combination with other substances as to cause a violation of the applicable standards is prohibited.</p>

	[Minn. R. 7050.0210, subp. 13]
5.7.63	Emerging Contaminants of Concern Discharge of pollutants associated with emerging contaminants such as PFAS (per- and polyfluoroalkyl substances), pharmaceuticals, endocrine active substances, etc., are prohibited. [Minn. R. 7050.0210, subp. 13]
5.7.64	Metals Discharges that contain metals contamination at levels of concern are prohibited. Except for clean-up sites associated with leaded gasoline, the discharge of contaminated groundwater with toxic metals at a level of concern, is not authorized under this permit. [Minn. R. 7050.0210, subp. 13]
5.7.65	Rare or Endangered Species Discharges which would have a detrimental impact on rare or endangered species are prohibited. [Minn. R. 7050.0210, subp. 13]
5.7.66	Treatment Wastes Discharges of treatment residuals or sludges, suspended solids or backwashed sediment from the cleaning of treatment system components are prohibited. [Minn. R. 7050.0210, subp. 13]
5.7.67	Other Wastes Discharges of wastes other than those which meet the eligibility criteria of the General Permit are prohibited. [Minn. R. 7050.0210, subp. 13]
5.7.68	General Monitoring, Recording and Reporting Requirements. [Minn. R. 7001.0210]
5.7.69	Contaminant Source Category Definitions. [Minn. R. 7001.0210]
5.7.70	Gasoline Only Sites Limits and monitoring designed to cover discharges resulting from the treatment of contaminated groundwater and remediation related wastewater where gasoline was released. This includes short-term dewatering from underground storage tank (UST) removal or replacement, long-term groundwater pump and treat systems, groundwater seepage collection systems, construction dewatering, aquifer pump testing, or other activities where gasoline is a known contaminant. This also includes releases which may contain leaded gasoline. [Minn. R. 7001.0210]
5.7.71	Fuel Oils (and Other Oils) Only Sites Limits and monitoring designed to cover discharges resulting from the treatment of contaminated groundwater and remediation related wastewater where there has been a release of fuel oils such as diesel fuel, kerosene, jet fuel, heating oil, and heavier residual fuel oils. Also included are lube oils, machine oils, hydraulic fluids, mineral oils, and other oil products excluding waste oil. This includes short-term dewatering from USTs removal or replacement, long-term groundwater pump and treat system, groundwater seepage collection systems, construction dewatering, aquifer pump testing, or other activities where oil is a known contaminant. [Minn. R. 7001.0210]
5.7.72	Mixed Petroleum Sites Containing Other Contaminants Limits and Monitoring designed to cover discharges resulting from the treatment of contaminated groundwater and remediation related wastewater where the releases are primarily petroleum contaminants from mixed wastes. Typically, these are sites where petroleum releases have been identified as the primary source; however, other contaminants have also been found. These contaminants may include waste solvents, or waste oils which may be commingled with other contaminants including PAHs. [Minn. R. 7001.0210]
5.7.73	Volatile Organic Compound (VOC) Only Sites Limits and Monitoring designed to cover discharges resulting from the treatment of contaminated groundwater and remediation related wastewater where the release of VOC compounds is the primary source of contamination. These releases are typically related to improper disposal or spills of solvents, de-greasers, cleaners, paint removers, etc., or from industrial operations, chemical blending, transportation, or other sources. [Minn. R. 7001.0210]
5.7.74	VOC Sites with Other Contaminants Limits and Monitoring designed to cover discharges resulting from the treatment of contaminated groundwater and remediation related wastewater where site characterization has identified VOC compounds as the primary source of contamination, but where other chemicals are present in small amounts. For example, VOC sites may have varying amounts of petroleum hydrocarbons, PAHs, metals or other pollutants. [Minn. R. 7001.0210]
5.7.75	Narrative Water Quality Criteria. [Minn. R. 7001.0210, subp. 13]
5.7.76	The discharge authorized herein shall not cause a measureable thermal change to the receiving water. The discharge and/or discharge velocity shall not cause scouring or bottom deposits in the receiving water to the extent that such scouring or deposits cause nuisance conditions or adversely

	impair beneficial uses. [40 CFR 122.44(l)(2)i]
5.7.77	Total Maximum Daily Load (TMDL) Impacts. [40 CFR 122.44(l)(2)i]
5.7.78	Applicants that discharge a pollutant or pollutant of concern directly to or upstream of waters impaired by such pollutants, may at some future date be required to comply with additional permits or permit requirements, based on the conclusions of any applicable EPA approved TMDL studies and association implementation plans. [40 CFR 122.44(l)(2)i]
5.7.79	Treatment System Operation and Maintenance. [Minn. R. 7001]
5.7.80	Complete a treatment operations plan which describes treatment systems that are installed or used by the Permittee to achieve compliance with permit conditions and which shall include, at a minimum: A. A description of how the processes employed and physical design of the treatment works which will ensure compliance with the effluent limitations contained herein; B. 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; C. Provisions for system start-up including a description of additional sample collection necessary to show that the system is operating as designed before wastewater is discharged; D. Provisions for system shutdown; and E. Provisions to determine if the treatment system requires maintenance or other corrective actions to meet the General Permit limits. The plan shall be available to the operator at all times, and available to the MPCA upon request. [Minn. R. 7001.0150, subp. 3]
5.7.81	This provision requires the operation of backup or auxiliary facilities or similar systems which are installed by a Permittee only when the operation is necessary to achieve compliance with the conditions of this General Permit. [40 CFR 122.41(e)]
5.7.82	The discharger shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the Permittee to achieve compliance with permit conditions. [Minn. R. 7001.subp. 3, F]
5.7.83	Where used, the operation of multi-stage activated carbon treatment systems shall be such that the rotation of carbon stages and the replacement of spent carbon shall be initiated upon breakthrough of pollutants in the intermediate treatment stage. [Minn. R. 7001.subp. 3, F]
5.7.84	Data and analytic results pertaining to start-up shall be maintained with the operations maintenance manual and need not be submitted to the MPCA; unless specifically requested. [Minn. R. 7001.subp. 3, F]
5.7.85	All systems, both in service and reserved, shall be inspected and maintained on a regular basis. Records shall be kept of inspection results and maintenance performed. Records shall be made available to the MPCA upon request. [Minn. R. 7001.subp. 3]
5.7.86	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. [Minn. R. 7001.subp. 3, F]
5.7.87	Chemical Additives. [40 CFR 122.21(h)(3), Minn. R. 7001]
5.7.88	Chemical additives that are intended to be used as part of the contaminated groundwater treatment process or are used to maintain the treatment equipment must disclosed in the NOI. Information provided to support the use shall include the material safety data sheet (MSDS), where and how the chemical is used, usage and dosing rate, how dosing is controlled, and the method or methods for which the residual chemical additive will be treated or disposed of as is applicable. Except for chemical additives that are addressed in the requirements below, all other chemical additives must request and receive approval as is directed in the "Chemical Additives" section of the "Total Facility Requirements Chapter". [40 CFR 122.21(h)(3), Minn. R. 7001.1050, subp. 2(E & J), Minn. R. 7001.1090, subp. 2(B)]
5.7.89	The Permittee may use chemical additives which are pre-approved by the MPCA. A list of pre-approved chemicals can be found on the MPCA website at: https://www.pca.state.mn.us/water/wastewater-additional-guidance-and-information . [Minn. R. 7001.1050, subp. 2(J), Minn. R. 7001.1090, subp. 2(B)]

5.7.90	Chlorine Contamination or Additives If treated water is subject to high chloride levels due to natural background levels or use of chlorine containing chemical additives, the discharge shall be monitored and shall not exceed the final acute value for total residual chlorine of 0.038 mg/l at the point of discharge to surface water. [Minn. R. 7001.1050, subp. 2(J), Minn. R. 7001.1090, subp. 2(B)]
5.7.91	Sampling and Test Methods. [Minn. R. 7001]
5.7.92	Samples and measurements required by this General Permit shall be conducted in accordance with the conditions contained herein, together with any site specific requirements found in the NOC and in the limits and monitoring section for the unique applicant. [40 CFR 122.41(j)(1)]
5.7.93	The holding time for pH, conductivity, temperature, and total residual oxidant (as chlorine) shall not exceed fifteen minutes. [40 CFR 136]
5.7.94	DRO and GRO The modified Wisconsin methods Diesel Range Organics (DRO) and/or Gasoline Range Organics (GRO) shall be used for petroleum hydrocarbon constituents, including, but not necessarily limited to: gasoline, diesel fuel, fuel oil, kerosene, crude oil and jet fuel. [Minn. R. 7001.1080, subp. 5]
5.7.95	BTEX Analytic methods for benzene, toluene, and ethylbenzene 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. The Permittee may also use EPA methods, 5030/8021, or 5030/8260 or updates to those methods. EPA methods 8021 or 8260 or an equivalent method shall be used for xylenes, including ortho-, meta, and para-xylene. [40 CFR 136]
5.7.96	Testing Methods The General Permit authorizes the use of EPA Method 8260 as a substitute or equivalent for EPA methods for wastewater analyses 602, 624, or 1624. Method 8260 is described in Test Methods for Evaluating Solid Waste Volume IA: Laboratory Manual Physical/Chemical Methods. This is an approved Resource Conservation and Recovery Act (RCRA) method for the analysis of VOC compounds such as xylenes. [40 CFR 136]
5.7.97	Polycyclic Aromatic Hydrocarbons (PAH) Reporting. [Minn. R. 7001]
5.7.98	PAH General Compliance with the permitted effluent limitations for carcinogenic PAHs is based on the sum total of the monitoring results for individual carcinogenic PAHs detected in the waste stream. If a listed carcinogenic PAH is below detectable levels or reporting limit using an approved method for analysis, for the purposes of this General Permit, its value is considered to be zero. [Minn. R. 7001.0210, subp. 13]
5.7.99	PAH Carcinogenic The Permittee shall add together the monitoring results for all of the following constituents and report the sum on the discharge monitoring report forms as the result for total PAHs carcinogenic. The following parameters shall be added together: Benzo(a)anthracene (56-55-3), Benzo(a)pyrene (50-32-8), Benzo(b)fluoranthene (207-08-9), Benzo(g,h,i)perylene (191-24-2), Benzo(k)fluoranthene (205-99-2), Chrysene (218-01-9), Dibenz(a,h)anthracene (53-70-3), Indeno(1,2,3-cd)pyrene (193-39-5). [Minn. R. 7001.0210, subp. 13]
5.7.100	PAH Non-carcinogenic Calculation Compliance with the permitted effluent limitations for non-carcinogenic PAHs is based on the sum total of the monitoring results for individual non-carcinogenic PAHs detected in the waste stream. If a listed non-carcinogenic PAH is below detectable levels or reporting limit using an approved method for analysis, for the purposes of this General Permit, its value is considered to be zero. [Minn. R. 7001.0210, subp. 13]
5.7.101	PAH Non-Carcinogenic The Permittee shall add together the monitoring results for all of the following constituents and report the sum on the discharge monitoring report forms as the result for total PAHs non-carcinogenic. The following parameters shall be added together: Acenaphthylene (208-96-8), Anthracene (120-12-7), Fluoranthene (206-44-0), Fluorene (86-73-7), Phenanthrene (85-01-8), Pyrene (129-00-0). [Minn. R. 7001.0210, subp. 13]
5.7.102	PAH Detection Limits The effluent limitations contained in the General Permit for total carcinogenic PAHs, total non-carcinogenic PAHs, and anthracene are below the method detection limits of currently available and approved analytic test methods. The limit at which compliance or noncompliance is determined will be based on the Minimum Level (ML) of EPA method 625 or any updates to that method as published in 40 CFR Part 136, Appendix A. If during the life of the General Permit a more sensitive test method is approved by EPA for wastewater analyses, then the General Permit effluent limitation will become the enforceable limitation rather than the analytical

	detection limit. [Minn. R. 7001.0210, subp. 13]
5.7.103	Sampling Frequency. [Minn. R. 7001.0210, subp. 13]
5.7.104	The monitoring frequency for Category I and II applicants shall be no less frequent than quarterly, or as otherwise directed on the limits and monitor page established for the covered applicant. [Minn. R. 7001.0150, subp. 2(B)]
5.7.105	The monitoring frequency for Category III applicants shall be monthly, or as otherwise directed on the limits and monitor page established for the covered applicant. [Minn. R. 7001.0150, subp. 2(B)]
5.7.106	Monitoring Reductions A request for a reduction in the monitoring frequency may be submitted by the Permittee if sufficient sampling and monitoring results demonstrated that the reduced monitoring will ensure proper system operation and compliance with the terms and conditions of the General Permit. The reduced monitoring frequency shall be: A. No less than quarterly; B. Be reflected on the limits and monitoring page of the General Permit; and C. Effective as of the date the Permittee's coverage is modified. Permit modification forms and fees would be required to be submitted with the request. [Minn. R. 7001.0170, subp. B]
5.7.107	If the Permittee monitors more frequently than required, the results and the frequency of analyses shall be reported on the eDMR form(s) for the reporting period(s). [Minn. R. 7001.1090, subp. 1]
5.7.108	Sampling Location Requirements. [Minn. R. 7001]
5.7.109	Surface water discharge samples taken to demonstrate compliance with the surface water effluent limitations contained herein shall be taken at the point of discharge from the treatment system prior to combining with any other waste stream or the receiving water. [Minn. R. 7001.1080, subp. 2]
5.7.110	Wastewater samples for land application discharges shall be taken at the point representative of the discharge to the land application site for Category I and II waste streams. [Minn. R. 7001.1080, subp. 2]
5.7.111	Permit Coverage Changes. [Minn. R. 7001.0210]
5.7.112	Transfer of General Permit Coverage. [Minn. R. 7001]
5.7.113	Pursuant to 40 CFR Part 122.61(b), coverage under this General Permit may be transferred in case of a change of ownership of land, responsible party, or discharge facility provided the existing discharger notifies the MPCA at least 30 days before the proposed transfer date, and the notice includes a written agreement between the existing and proposed new discharger containing a specific date of transfer of coverage, responsibility for compliance with this General Permit and liability between them. Application forms may be downloaded from the MPCA web site to commence the permit transfer process. An application fee is not required for this modification. [40 CFR 122.61(b), Minn. R. 7001.0170, subp. G, Minn. R. 7001.0190]
5.7.114	Transfer of General Permit coverage to the MPCA is not subject to the written consent of the existing applicant. [40 CFR 122.61(b), Minn. R. 7001.0190]
5.7.115	General Permit Modifications. [Minn. R. 7001.0160]
5.7.116	Coverage under this General Permit may be modified, revoked, and reissued, or terminated for cause pursuant to 40 CFR Parts 122.62 and 122.63. Reasons for modification may include new information on the impact of discharges regulated under this General Permit became available; promulgation of new effluent limitation guidelines; adoption of new policies, regulations, and/or water quality objectives; and/or judicial decisions affecting the requirements of the General Permit. [40 CFR 122.62, 40 CFR 122.63, Minn. R. 7001.0170, Minn. R. 7001.0190]
5.7.117	The permit change request form can be found at: https://www.pca.state.mn.us/water/wastewater-permit-forms . [Minn. R. 7001]
5.7.118	Termination of General Permit Coverage. [Minn. R. 7001]
5.7.119	Upon completion of the remediation activity or dewatering operations, the covered applicant shall submit a request for termination of general permit coverage using the Notification of Permit Termination e-services. Guidance is available on the MPCA website at: https://www.pca.state.mn.us/sites/default/files/p-gen1-18.pdf . [Minn. Stat. ch. 116.07]
5.7.120	All discharges shall cease before a termination request form is submitted to the MPCA. Any

	discharge of pollutants to surface or groundwaters or land on or after the date of submittal shall be considered a violation of the Clean Water Act unless authorized by another NPDES permit. All land disturbances or alterations that are a result of the activities covered under this permit must be stabilized prior to submittal for closure, or the closure of those areas must have coverage under another NPDES permit. [Minn. Stat. ch. 116.07]
5.7.121	The terms and conditions of the General Permit remain in full force and effect including the payment of the annual fee, until General Permit coverage has been formally terminated by the MPCA. [Minn. R. 7002]
5.7.122	Total Facility Requirements. [Minn. R. 7001]
5.7.123	Definitions. Refer to the Permit User's Manual found on the MPCA's website (https://www.pca.state.mn.us) for standard definitions. [Minn. R. 7001]
5.7.124	Incorporation by Reference. This permit incorporates the following applicable federal and state laws applicable to the Permittee and enforceable parts of this permit: 40 CFR pts. 122.41, 122.42, 136, 403 and 503; Minn. R. chs. 7001, 7041, 7045, 7050, 7052, 7053, 7060, and 7080; and Minn. Stat. chs. 115 and 116. [Minn. R. 7001]
5.7.125	Permittee Responsibility. The Permittee shall perform the actions or conduct the activity authorized by this permit in compliance with the conditions of the permit and, if required, in accordance with the plans and specifications approved by the MPCA. [Minn. R. 7001.0150, subp. 3(E)]
5.7.126	Toxic Discharges Prohibited. Whether or not this permit includes effluent limitations for toxic pollutants, the Permittee shall not discharge a toxic pollutant except according to 40 CFR pts. 400 to 460 and Minn. R. chs. 7050, 7052, 7053 and any other applicable MPCA rules. [Minn. R. 7001.1090, subp. 1(A)]
5.7.127	Nuisance Conditions Prohibited. The Permittee's discharge shall not cause any nuisance conditions including, but not limited to: floating solids, scum and visible oil film, excessive suspended solids, material discoloration, obnoxious odors, gas ebullition, deleterious sludge deposits, undesirable slimes or fungus growths, aquatic habitat degradation, excessive growths of aquatic plants, acutely toxic conditions to aquatic life, or other adverse impact on the receiving water. [Minn. R. 7050.0210, subp. 2]
5.7.128	Property Rights. This permit does not convey a property right or an exclusive privilege. [Minn. R. 7001.0150, subp. 3(C)]
5.7.129	Liability Exemption. In issuing this permit, the State and the MPCA assume no responsibility for damage to persons, property, or the environment caused by the activities of the Permittee in the conduct of its actions, including those activities authorized, directed, or undertaken under this permit. To the extent the State and the MPCA may be liable for the activities of its employees, that liability is explicitly limited to that provided in the Tort Claims Act. [Minn. R. 7001.0150, subp. 3(O)]
5.7.130	The MPCA's issuance of this permit does not obligate the MPCA to enforce local laws, rules, or plans beyond what Minnesota statutes authorize. [Minn. R. 7001.0150, subp. 3(D)]
5.7.131	Liabilities. The MPCA's issuance of this permit does not release the Permittee from any liability, penalty, or duty imposed by Minnesota or federal statutes or rules or local ordinances, except the obligation to obtain the permit. [Minn. R. 7001.0150, subp. 3(A)]
5.7.132	The issuance of this permit does not prevent the future adoption by the MPCA of pollution control rules, standards, or orders more stringent than those now in existence and does not prevent the enforcement of these rules, standards, or orders against the Permittee. [Minn. R. 7001.0150, subp. 3(B)]
5.7.133	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]
5.7.134	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]
5.7.135	Inspection and Entry. When authorized by Minn. Stat. ch. 115.04, 115B.17, subd. 4, and 116.091,

	and upon presentation of proper credentials, the Permittee shall allow the MPCA, or an authorized employee or agent of the MPCA, to enter at reasonable times upon the property of the Permittee to examine and copy books, papers, records, or memoranda pertaining to the construction, modification, or operation of the facility covered by the permit or pertaining to the activity covered by the permit; and to conduct surveys and investigations, including sampling or monitoring, pertaining to the construction, modification, or operation of the facility covered by the permit or pertaining to the activity covered by the permit. [Minn. R. 7001.0150, subp. 3(I)]
5.7.136	Control Users. The Permittee shall regulate the users of its facility to prevent the introduction of pollutants or materials that may result in the inhibition or disruption of the conveyance system, treatment facility or processes, or disposal system that would contribute to the violation of the conditions of this permit or any federal, state, or local law or regulation. [Minn. R. 7001.0150, subp. 3(F)]
5.7.137	Sampling . [Minn. R. 7001]
5.7.138	Representative Sampling. The Permittee shall conduct samples and measurements required by this permit as specified in this permit and shall be representative of the discharge or monitored activity. [Minn. R. 7001.0150, subp. 2(B)]
5.7.139	Additional Sampling. If the Permittee monitors more frequently than required, they shall report the results and the frequency of monitoring on their eDMR for that reporting period. [Minn. R. 7001.1090, subp. 1(E)]
5.7.140	Certified/Accredited Laboratory. A laboratory accredited by the Minnesota Department of Health [Minn. R. 4740.2010 through Minn. R. 4740.2120] and/or certified by the MPCA [Minn. R. 7001.4310 through Minn. R. 7001.4390] shall conduct analyses required by this permit, unless approved in writing by the MPCA. A certified/accredited laboratory does not need to complete analyses of dissolved oxygen, pH, temperature, specific conductance, and total residual oxidants (chlorine, bromine). Those analyses shall comply with 40 CFR pt. 136. Dissolved oxygen, pH, and total residual oxidants must be performed on-site. Follow the manufacturer's specifications for equipment maintenance and use. [Minn. R. 4740.2010-4740.2120, Minn. R. 7001.4310-7001.4390]
5.7.141	Sample Preservation and Procedure. Sample preservation and test procedures for the analysis of pollutants shall conform to 40 CFR pt. 136 and Minn. R. 7041.3200. [Minn. R. 7001.0150, subp. 2(B), Minn. R. 7041.3200]
5.7.142	Equipment Calibration. The Permittee shall check and/or calibrate flow meters, pumps, flumes, lift stations, or other flow monitoring equipment used for purposes of determining compliance (within plus or minus ten percent of the true flow values) with permit requirements at least twice annually. [Minn. R. 7001.0150, subp. 2(B & C)]
5.7.143	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: A. The exact place, date, and time of the sample or measurement; B. The date of analysis; C. The name of the person who performed the sample collection, measurement, analysis, or calculation; D. The analytical techniques, procedures, and methods used; and E. The results of the analysis. [Minn. R. 7001.0150, subp. 2(C)]
5.7.144	Completing Reports. The Permittee shall submit the results of the required sampling and monitoring activities on the forms provided, specified, or approved by the MPCA. The Permittee shall record the information in the specified areas on those forms and in the units specified. Required forms may include a Sample Values Form. If required, the Permittee shall record individual values for each sample and measurement on the Sample Values Form provided by the MPCA. The Permittee shall submit Sample Values Form with the appropriate eDMRs. The Permittee may design and use their own Sample Values Form; however, the Permittee shall not use their form until the

	<p>MPCA reviews and approves the form.</p> <p>Note: The Permittee shall also record required summary information on their eDMR. Permittee submitted summary information contained only on the Sample Values Form does not comply with reporting requirements. [Minn. R. 7001.0150, subp. 2(B), Minn. R. 7001.1090, subp. 1(D)]</p>
5.7.145	<p>Submitting Reports. The Permittee shall submit eDMRs, Sample Values Forms, and other supplemental attachment forms via MPCA e-Services after the MPCA approves their authorization request.</p> <p>The Permittee shall electronically submit eDMRs, Sample Values Forms, and other supplemental attachment forms by the 21st day of the month following the sampling period or otherwise as specified in this permit. The Permittee shall complete eDMR submittal on or before 11:59 PM of the 21st day of the month following the sampling period or as otherwise specified in this permit. The Permittee shall submit an eDMR for each required station even if no discharge occurred during the reporting period.</p> <p>The Permittee shall submit other reports required by this permit electronically or by mail. The Permittee shall submit reports by the date specified in this permit. For electronic submittals, the Permittee shall submit on or before 11:59 PM on the date specified in this permit. For mailed submittals, the Permittee shall ensure that submittals via U.S. Postal Service or other hand delivery method contain postmarks by the date specified in this permit.</p> <p>Electronically: wq.submittals.mpca@state.mn.us Include Water quality submittals form: www.pca.state.mn.us/sites/default/files/wq-wwprm7-71.docx</p> <p>Or by mail: Attention: WQ Submittals Center Minnesota Pollution Control Agency 520 Lafayette Road North St. Paul, MN 55155-4191. [Minn. R. 7001.0150, subp. 2(B), Minn. R. 7001.0150, subp. 3(H)]</p>
5.7.146	<p>Incomplete or Incorrect Reports. The Permittee shall immediately submit an electronically amended report or eDMR to the MPCA upon discovery by the Permittee or notification by the MPCA that it has submitted an incomplete or incorrect report or eDMR. The amended report or eDMR shall contain the missing or corrected data along with a comment on the eDMR explaining the circumstances of the incomplete or incorrect report. If it is impossible to amend the report or eDMR electronically, the Permittee shall immediately notify the MPCA and the MPCA will provide direction for the amendment submittals. [Minn. R. 7001.0150, subp. 3(G)]</p>
5.7.147	<p>Required Signatures. The Permittee or the duly authorized representative of the Permittee shall sign all eDMRs, forms, reports, and other documents submitted to the MPCA per Minn. R. 7001.0150, subp. 2(D). The person or persons who sign the eDMRs, forms, reports, or other documents shall certify that he or she understands and complies with the certification requirements of Minn. R. chs. 7001.0070 and 7001.0540, including the penalties for submitting false information. A registered professional engineer shall certify technical documents, such as design drawings and specifications, and engineering studies submitted as part of a permit application or by permit conditions. [Minn. R. 7001.0540]</p>
5.7.148	<p>Reporting Limit (RL). The Permittee shall report monitoring results below the RL of a particular instrument as "<" the value of the RL. For example, if an instrument has a RL of 0.1 mg/L and a parameter is not detected at a value of 0.1 mg/L or greater, the Permittee shall report the concentration as "< 0.1 mg/L." The Permittee shall not use "non-detected," "undetected," "below detection limit," or "zero" when reporting results. The MPCA considers these terms as permit reporting violations.</p>

	<p>Where sample values are less than the RL and the permit requires reporting of an average, the Permittee shall calculate the average as follows:</p> <p>A. If some values are less than (<) the RL, substitute zero for all non-detectable values to use in the average calculation;</p> <p>B. If all values are less than (<) the RL, calculate the average and report as < the RL average concentration; and</p> <p>C. To calculate a mass loading with a less than (<) the RL concentration, use the RL value in the calculation and then add the "<" to the product of the concentration and the volume. [Minn. R. 7001.0150, subp. 2(B)]</p>
5.7.149	<p>Records. The Permittee shall, when requested by the MPCA, submit within a reasonable time the information and reports that are relevant to the control of pollution regarding the construction, modification, or operation of the facility covered by the permit or regarding the conduct of the activity covered by the permit. [Minn. R. 7001.0150, subp. 3(H)]</p>
5.7.150	<p>Confidential Information. Except for data determined to be confidential according to Minn. Stat. ch. 116.075, subd. 2, all reports required by this permit are available for public inspection. The MPCA does not consider effluent data confidential. To request the MPCA maintain data as confidential, the Permittee shall follow Minn. R. 7000.1300. [Minn. R. 7000.1300]</p>
5.7.151	<p>Noncompliance and Enforcement. [Minn. R. 7001]</p>
5.7.152	<p>Subject to Enforcement Action and Penalties. Noncompliance with a term or condition of this permit subjects the Permittee to penalties provided by federal and state law set forth in section 309 of the Clean Water Act; United States Code, title 33, section 1319, as amended; and in Minn. Stat. ch. 115.071 and 116.072, including monetary penalties, imprisonment, or both. [Minn. R. 7001.1090, subp. 1(B)]</p>
5.7.153	<p>Criminal Activity. The Permittee shall not knowingly make a false statement, representation, or certification in a record or other document submitted to the MPCA. A person who falsifies a report or document submitted to the MPCA, or tampers with, or knowingly renders inaccurate a monitoring device or method that requires maintenance under this permit is subject to criminal and civil penalties provided by federal and state law. [Minn. R. 7001.0150, subp. 3(G), Minn. R. 7001.1090, subp. 1(G & H), Minn. Stat. ch. 609.671, subd. 1]</p>
5.7.154	<p>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)]</p>
5.7.155	<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.</p> <p>If the Permittee discovers that noncompliance with a condition of the permit occurred and that the noncompliance could endanger human health, public drinking water supplies, or the environment, the Permittee shall within 24 hours of the discovery of the noncompliance orally notify the Commissioner and submit a written description of the noncompliance within five days of the discovery.</p> <p>If the Permittee discovers other noncompliance that does not explicitly endanger human health, public drinking water supplies, or the environment, the Permittee shall report the description of noncompliance within 30 days of the discovery. If no eDMR is required within 30 days, the Permittee shall submit a written report including the description of noncompliance within 30 days of the discovery of the noncompliance. This description shall include the following information:</p> <p>A. A description of the event including volume, duration, monitoring results, and receiving waters;</p> <p>B. The cause of the event;</p> <p>C. The steps taken to reduce, eliminate, and prevent reoccurrence of the event;</p> <p>D. The exact dates and times of the event; and</p> <p>E. Steps taken to reduce any adverse impact resulting from the event. [Minn. R. 7001.0150, subp.</p>

	3(K)]
5.7.156	<p>Upset Defense. In the event of temporary noncompliance with applicable effluent limitation(s) resulting from an upset at the Permittee's facility due to factors beyond the control of the Permittee, the Permittee has an affirmative defense to an enforcement action brought by the MPCA as a result of the noncompliance if the Permittee demonstrates by a preponderance of competent evidence:</p> <p>A. The specific cause of the upset;</p> <p>B. That the upset was unintentional;</p> <p>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;</p> <p>D. That at the time of the upset the facility was being properly operated;</p> <p>E. That the Permittee properly notified the Commissioner of the upset in accordance with Minn. R. 7001.1090, subp. 1(I); and</p> <p>F. That the Permittee implemented the remedial measures required by Minn. R. 7001.0150, subp. 3(J). [Minn. R. 7001.1090]</p>
5.7.157	Release. [Minn. R. 7001]
5.7.158	Unauthorized Releases of Wastewater Prohibited. This permit prohibits overflows, discharges, spills, or other releases of wastewater or materials to the environment, whether intentional or not, except for discharges from outfalls specifically authorized by this permit. The MPCA will consider the Permittee's compliance with permit requirements, frequency of release, quantity, type, location, and other relevant factors when determining appropriate action. [40 CFR 122.41, Minn. Stat. ch. 115.061]
5.7.159	<p>Discovery of a Release. Upon discovery of a release, the Permittee shall:</p> <p>A. Take all reasonable steps to immediately end the release;</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 discovery of the release. The Permittee may contact the MPCA during business hours at 1(800)657-3864 or (651)296-6300 (metro area); and</p> <p>C. Recover as rapidly and as thoroughly as possible all substances and materials released or immediately take other action as may be reasonably possible to minimize or abate pollution to waters of the state or potential impacts to human health caused thereby. If the Permittee cannot immediately or completely recover the released materials or substances, the Permittee shall contact the MPCA. If directed by the MPCA, the Permittee shall consult with other local, state, or federal agencies (such as the Minnesota Department of Natural Resources and/or the Wetland Conservation Act authority) for implementation of additional clean up or remediation activities in wetland or other sensitive areas. [Minn. R. 7001.1090]</p>
5.7.160	<p>Sampling of a Release. Upon discovery of a release, the Permittee shall:</p> <p>A. Collect representative samples of the release. The Permittee shall sample the release for permitted effluent parameters and other parameters of concern immediately following discovery of the release. The Permittee may contact the MPCA during business hours to discuss the sampling parameters and protocol. In addition, the Permittee shall collect fecal coliform bacteria samples where the Permittee determines that the release contains or may contain sewage. If the Permittee cannot immediately stop the release, the Permittee shall consult with the MPCA regarding additional sampling requirements. The Permittee shall collect samples at least, but not limited to, two times per week for as long as the release continues; and</p> <p>B. Submit the sampling results on the Release Report located on the MPCA's website at https://www.pca.state.mn.us/water/discharge-monitoring-reports.</p> <p>The Permittee shall submit the Release Report to the MPCA with the next eDMR or within 30 days, whichever is sooner. [Minn. R. 7001.1090]</p>
5.7.161	Bypass. [Minn. R. 7001]
5.7.162	Anticipated Bypass. The Permittee may allow any bypass to occur that does not cause effluent

	<p>limitation exceedances, but only if the bypass is for essential maintenance to assure efficient operation of the facility. The Permittee shall submit prior notice to the MPCA at least ten days before the date of the bypass, if possible. The notice of the need for an anticipated bypass shall include the following information:</p> <p>A. The proposed date and estimated duration of the bypass;</p> <p>B. The alternatives to bypassing; and</p> <p>C. A proposal for effluent sampling during the bypass. Any bypass wastewater shall enter waters of the state from outfalls specifically authorized by this permit. Therefore, the Permittee shall collect samples at the frequency and location identified in this permit or two times per week for as long as the bypass continues, whichever is more frequent. [40 CFR 122.41(m)(2 & 3), Minn. R. 7001.1090, subp. 1(J)]</p>
5.7.163	<p>This permit prohibits all other bypasses. The MPCA may take enforcement action against the Permittee for a bypass, unless the specific conditions described in Minn. R. 7001.1090 subp. 1(K) and 40 CFR 122.41(m)(4)(i) are met.</p> <p>In the event of an unanticipated bypass, the Permittee shall:</p> <p>A. Take all reasonable steps to immediately end the bypass;</p> <p>B. Notify the Minnesota Department of Public Safety Duty Officer at 1(800)422-0798 or (651)649-5451 (metro area) immediately upon commencement of the bypass. The Permittee may contact the MPCA during business hours at 1(800)657-3864 or (651)296-6300 (metro area);</p> <p>C. Immediately take action as may be reasonably possible to minimize or abate pollution to waters of the state or potential impacts to human health caused thereby. If directed by the MPCA, the Permittee shall consult with other local, state, or federal agencies for implementation of abatement, clean up, or remediation activities; and</p> <p>D. Only allow bypass wastewater as specified in this section to enter waters of the state from outfalls specifically authorized by this permit. The Permittee shall collect samples at the frequency and location identified in this permit or two times per week for as long as the bypass continues, whichever is more frequent. The Permittee shall also follow the reporting requirements for effluent violations as specified in this permit. [40 CFR 122.41(m)(4)i, Minn. R. 7001.1090, subp. 1(K), Minn. Stat. ch. 115.061]</p>
5.7.164	Operation and Maintenance. [Minn. R. 7001]
5.7.165	<p>The Permittee shall at all times properly operate and maintain the facilities and systems of treatment and control, and the appurtenances related to them which are installed or used by the Permittee to achieve compliance with the conditions of the permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. The Permittee shall install and maintain appropriate backup or auxiliary facilities if they are necessary to achieve compliance with the conditions of the permit and, for all permits other than hazardous waste facility permits, if these backup or auxiliary facilities are technically and economically feasible. [Minn. R. 7001.0150, subp. 3(F)]</p>
5.7.166	<p>In the event of a reduction or loss of effective treatment of wastewater at the facility, the Permittee shall control production or curtail discharges to the extent necessary to maintain compliance with the terms and conditions of this permit. The Permittee shall continue this control or curtailment until they restore facility treatment processes or until the Permittee provides an alternative method of treatment. [Minn. R. 7001.1090, subp. 1(C)]</p>
5.7.167	Solids Management. The Permittee shall properly store, transport, and manage biosolids, septage, sediments, residual solids, filter backwash, screenings, oil, grease, and other substances so that pollutants do not enter surface waters or groundwaters of the state. The Permittee shall manage solids in accordance with local, state, and federal requirements. [40 CFR 503, Minn. R. 7041]
5.7.168	Scheduled Maintenance. The Permittee shall schedule maintenance of the treatment works during non-critical water quality periods to prevent water quality degradation, except where the facility requires emergency maintenance to prevent a condition that would be detrimental to water quality or human health. [Minn. R. 7001.0150, subp. 2(B), Minn. R. 7001.0150, subp. 3(F)]

5.7.169	<p>Control Tests. The Permittee shall conduct in-plant control tests at a frequency adequate to ensure compliance with the conditions of this permit. [Minn. R. 7001.0150, subp. 2(B), Minn. R. 7001.0150, subp. 3(F)]</p>
5.7.170	<p>Changes to the Facility or Permit. [Minn. R. 7001]</p>
5.7.171	<p>Permit Modifications. Except as provided under Minn. Stat. ch. 115.07, subd. 1 and 3, no person required by statute or rule to obtain a permit may construct, install, modify, or operate the facility to be permitted, nor shall a person commence an activity for which a permit is required by statute or rule until the MPCA issues a written permit for the facility or activity.</p> <p>Permittees that propose to make changes to the facility or discharge that requires permit modification shall follow Minn. R. 7001.0190. If the Permittee cannot determine whether the proposed changes require a permit modification, the Permittee shall contact the MPCA prior to any action. The MPCA recommends that Permittees submit the application for permit modification to the MPCA at least 180 days prior to the planned change. [Minn. R. 7001.0030]</p>
5.7.172	<p>This permit does not require plans, specifications, and MPCA approval when maintenance dictates the need for installation of new equipment, provided the equipment is the same design size and has the same design intent. For instance, Permittees can replace a broken pipe, lift station pump, aerator, or blower with the same design-sized equipment without MPCA approval.</p> <p>If this permit does not expressly authorize the Permittee proposed construction, the MPCA may require a permit modification. If the proposed construction project requires an Environmental Assessment Worksheet under Minn. R. 4410, no construction shall begin until the MPCA issues a negative declaration and the Permittee receives or implements all approvals. [Minn. R. 7001.0030]</p>
5.7.173	<p>Report Changes. The Permittee shall give advance notice as soon as possible to the MPCA of any substantial changes in operational procedures, activities that may alter the nature or frequency of the discharge, and/or material factors that may affect compliance with the conditions of this permit. [Minn. R. 7001.0150, subp. 3(M)]</p>
5.7.174	<p>Chemical Additives. The Permittee shall receive prior written approval from the MPCA before increasing the use of a chemical additive authorized by this permit, or using a chemical additive not authorized by this permit, in quantities or concentrations that have the potential to change the characteristics, nature, and/or quality of the discharge.</p> <p>The Permittee shall request approval for an increase or new use of a chemical additive at least 60 days, or as soon as possible, before the proposed increase or new use. The Permittee shall include at least the following information for the proposed additive as instructed in the chemical additive approvals section on the MPCA website at https://www.pca.state.mn.us/water/wastewater-additional-guidance-and-information:</p> <ul style="list-style-type: none">A. The process for which the additive will be used;B. Safety Data Sheet (SDS) which shall include aquatic toxicity, human health, and environmental fate information for the proposed additive. The aquatic toxicity information shall include at minimum the results of: a) a 48-hour LC50 or EC50 acute study for a North American freshwater planktonic crustacean (either Ceriodaphnia or Daphnia sp.) and b) a 96-hour LC50 acute study for rainbow trout, bluegill, or fathead minnow or another North American freshwater aquatic species other than a planktonic crustacean;C. A complete product use and instruction label;D. The commercial and chemical names and Chemical Abstract Survey (CAS) number for all ingredients in the additive (If the SDS does not include information on chemical composition, including percentages for each ingredient totaling to 100%, the Permittee shall contact the supplier to have this information provided); andE. The proposed method of application, application frequency, concentration, and daily average and maximum rates of use.

	<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>
5.7.175	<p>MPCA Initiated Permit Modification, Suspension, or Revocation. The MPCA may modify or revoke and reissue this permit pursuant to Minn. R. 7001.0170. The MPCA may revoke without reissuance of this permit pursuant to Minn. R. 7001.0180. [Minn. R. 7001.0170, Minn. R. 7001.0180]</p>
5.7.176	<p>Total Maximum Daily Load (TMDL) Impacts. The MPCA may require facilities that discharge to an impaired surface water, watershed, or drainage basin to comply with additional permits or permit requirements. These requirements can include additional restriction or relaxation of limits and monitoring as authorized by the CWA 303(d)(4)(A) and 40 CFR ch. 122.44(l)(2)(i), necessary to ensure consistency with the assumptions and requirements of any applicable EPA approved wasteload allocations resulting from TMDL studies. [40 CFR 122.44(l)(2)i]</p>
5.7.177	<p>Permit Transfer. This permit is not transferable to any person without the express written approval of the MPCA after compliance with the requirements of Minn. R. 7001.0190. A person who receives permit transference shall comply with the conditions of this permit. [Minn. R. 7001.0150, subp. 3(N)]</p>
5.7.178	<p>Facility Closure. The Permittee is responsible for closure and post-closure care of the facility. The Permittee shall notify the MPCA of a significant reduction or cessation of the activities described in this permit at least 180 days before the reduction or cessation. The MPCA may require the Permittee to provide a Facility Closure Plan to the MPCA for approval.</p> <p>The MPCA may require a permit modification or reissuance for facility closure that could result in a potential long-term water quality concern, such as the ongoing discharge of wastewater to surface or groundwater.</p> <p>The MPCA may require the Permittee to establish and maintain financial assurance to ensure performance of certain obligations under this permit, including closure, post-closure care, and remedial action at the facility. If the MPCA requires financial assurance, the MPCA shall approve the amount and type of financial assurance, and proposed modifications to previously MPCA-approved financial assurance. [Minn. Stat. ch. 116.07, subd. 4]</p>
5.7.179	<p>Permit Reissuance. If the Permittee desires to continue permit coverage beyond the date of permit expiration, the Permittee shall submit an application for permit reissuance : Due by 180 days prior to permit expiration. [Minn. R. 7001.0040]</p>
5.7.180	<p>If the Permittee does not intend to continue the activities authorized by this permit after the expiration date of this permit, the Permittee shall notify the MPCA in writing at least 180 days before permit expiration. If the Permittee has submitted a timely application for permit reissuance, the Permittee may continue to conduct the activities authorized by this permit, in compliance with the requirements of this permit, until the MPCA takes final action on the application, unless the MPCA determines any of the following:</p> <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;</p> <p>B. The MPCA, as a result of an action or failure to act by the Permittee, has been unable to take final action on the application on or before the expiration date of the permit; or</p> <p>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]</p>

4. Submittal action summary

SD 001	Effluent To Surface Water	
		Surface Discharge Station: Category I - Remediation Related Groundwater Discharge
	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)]
SD 002	Effluent To Surface Water	
		Surface Discharge Station: Category II - Long-Term Dewatering Discharge
	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)]
SD 003	Effluent To Surface Water	
		Surface Discharge Station: Category III - Short-Term Dewatering Discharge
	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)]
WS 001	Internal Waste Stream	
		Waste Stream Station: Intermediate Waste Stream
	6.4.1	The Permittee shall submit a monthly DMR: Due by 21 days after the end of each calendar month following permit issuance. [Minn. R. 7001.0150, Subp. 2(B)]
WS 002	Intermediate: WW to Land	
		Waste Stream Station: Non-Surface Water Remediation Discharge
	6.5.1	The Permittee shall submit a monthly DMR: Due by 21 days after the end of each calendar month following permit issuance. [Minn. R. 7001.0150, Subp. 2(B)]
MNG790000	Groundwater Pump-Out General Permit	
		Contaminated Groundwater Pumpout General Permit Requirements
	6.6.1	Permit Reissuance. If the Permittee desires to continue permit coverage beyond the date of permit expiration, the Permittee shall submit an application for permit reissuance : Due by 180 days prior to permit expiration. [Minn. R. 7001.0040]

5. Limits and monitoring

Subject item	Parameter	Discharge limitations						Monitoring requirements				Notes
		Quantity /Loading avg.	Quantity /Loading max.	Quantity /Loading units	Quality /Conc. min.	Quality /Conc. avg.	Quality /Conc. max.	Quality/ Conc. units	Frequency	Sample type	Effective period	
SD 001 Category I - Remediation Related Discharge	BOD, Carbonaceous 05 Day (20 Deg C)					Monitor only. calendar year average		milligrams per liter	once per year	Grab	Jan-Dec	
SD 001 Category I - Remediation Related Discharge	Chloride, Total					Monitor only. calendar year average		milligrams per liter	once per year	Grab	Jan-Dec	
SD 001 Category I - Remediation Related Discharge	Flow		Monitor only. calendar month total	million gallons		Monitor only. calendar month average	Monitor only. daily maximu m	million gallons per day	once per day	Measurement, Continuous	Jan-Dec	
SD 001 Category I - Remediation Related Discharge	Nitrite Plus Nitrate, Total (as N)					Monitor only. calendar year average		milligrams per liter	once per year	Grab	Jan-Dec	
SD 001 Category I - Remediation Related Discharge	Nitrogen, Kjeldahl, Total					Monitor only. calendar year average		milligrams per liter	once per year	Grab	Jan-Dec	
SD 001 Category I - Remediation Related Discharge	Nitrogen, Total (as N)					Monitor only. calendar year average		milligrams per liter	once per year	Calculation	Jan-Dec	
SD 001 Category I -	pH				6.0 instanta		9.0 instanta	standard units	once per quarter	Grab	Mar, Jun, Sep, 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	
Remediation Related Discharge					neous minimum		neous maximum					
SD 001 Category I - Remediation Related Discharge	Phosphorus, Total (as P)					Monitor only. calendar year average		milligrams per liter	once per year	Grab	Jan-Dec	
SD 001 Category I - Remediation Related Discharge	Solids, Total Suspended (TSS)					Monitor only. calendar quarter average		milligrams per liter	once per quarter	Grab	Mar, Jun, Sep, Dec	
SD 002 Category II - Long Term Dewatering Discharge	BOD, Carbonaceous 05 Day (20 Deg C)					Monitor only. calendar year average		milligrams per liter	once per year	Grab	Jan-Dec	
SD 002 Category II - Long Term Dewatering Discharge	Chloride, Total					Monitor only. calendar year average		milligrams per liter	once per year	Grab	Jan-Dec	
SD 002 Category II - Long Term Dewatering Discharge	Flow		Monitor only. calendar month total	million gallons		Monitor only. calendar month average	Monitor only. daily maximum	million gallons per day	once per day	Measurement, Continuous	Jan-Dec	
SD 002 Category II - Long Term Dewatering Discharge	Nitrite Plus Nitrate, Total (as N)					Monitor only. calendar year average		milligrams per liter	once per year	Grab	Jan-Dec	
SD 002	Nitrogen, Kjeldahl, Total					Monitor		milligrams	once per	Grab	Jan-Dec	

Subject item	Parameter	Discharge limitations						Monitoring requirements				Notes
		Quantity /Loading avg.	Quantity /Loading max.	Quantity /Loading units	Quality /Conc. min.	Quality /Conc. avg.	Quality /Conc. max.	Quality/ Conc. units	Frequency	Sample type	Effective period	
Category II - Long Term Dewatering Discharge						only. calendar year average		per liter	year			
SD 002 Category II - Long Term Dewatering Discharge	Nitrogen, Total (as N)					Monitor only. calendar year average		milligrams per liter	once per year	Calculation	Jan-Dec	
SD 002 Category II - Long Term Dewatering Discharge	pH				6.0 instantaneous minimum		9.0 instantaneous maximum	standard units	once per quarter	Grab	Mar, Jun, Sep, Dec	
SD 002 Category II - Long Term Dewatering Discharge	Phosphorus, Total (as P)					Monitor only. calendar year average		milligrams per liter	once per year	Grab	Jan-Dec	
SD 002 Category II - Long Term Dewatering Discharge	Solids, Total Suspended (TSS)					Monitor only. calendar quarter average		milligrams per liter	once per quarter	Grab	Mar, Jun, Sep, Dec	
SD 003 Category III - Short Term Construction Discharge	BOD, Carbonaceous 05 Day (20 Deg C)					Monitor only. calendar year average		milligrams per liter	once per year	Grab	Jan-Dec	
SD 003 Category III - Short Term Construction Discharge	Chloride, Total					Monitor only. calendar year average		milligrams per liter	once per year	Grab	Jan-Dec	

Subject item	Parameter	Discharge limitations						Monitoring requirements				Notes
		Quantity /Loading avg.	Quantity /Loading max.	Quantity /Loading units	Quality /Conc. min.	Quality /Conc. avg.	Quality /Conc. max.	Quality/ Conc. units	Frequency	Sample type	Effective period	
SD 003 Category III - Short Term Construction Discharge	Flow		Monitor only. calendar month total	million gallons		Monitor only. calendar month average	Monitor only. daily maximum	million gallons per day	once per day	Measurement, Continuous	Jan-Dec	
SD 003 Category III - Short Term Construction Discharge	Nitrite Plus Nitrate, Total (as N)					Monitor only. calendar year average		milligrams per liter	once per year	Grab	Jan-Dec	
SD 003 Category III - Short Term Construction Discharge	Nitrogen, Kjeldahl, Total					Monitor only. calendar year average		milligrams per liter	once per year	Grab	Jan-Dec	
SD 003 Category III - Short Term Construction Discharge	Nitrogen, Total (as N)					Monitor only. calendar year average		milligrams per liter	once per year	Calculation	Jan-Dec	
SD 003 Category III - Short Term Construction Discharge	pH				6.0 instantaneous minimum		9.0 instantaneous maximum	standard units	once per month	Grab	Jan-Dec	
SD 003 Category III - Short Term Construction Discharge	Phosphorus, Total (as P)					Monitor only. calendar year average		milligrams per liter	once per year	Grab	Jan-Dec	
SD 003 Category III - Short Term Construction Discharge	Solids, Total Suspended (TSS)					Monitor only. calendar month		milligrams per liter	once per month	Grab	Jan-Dec	

Subject item	Parameter	Discharge limitations							Monitoring requirements			Notes
		Quantity /Loading avg.	Quantity /Loading max.	Quantity /Loading units	Quality /Conc. min.	Quality /Conc. avg.	Quality /Conc. max.	Quality/ Conc. units	Frequency	Sample type	Effective period	
Discharge						average						
WS 001 Intermediate Waste Stream	Flow		Monitor only. calendar month total	million gallons		Monitor only. calendar month average	Monitor only. daily maximum	million gallons per day	once per day	Measurement, Continuous	Jan-Dec	
WS 002 Non Surface Water Discharge	Flow		Monitor only. calendar month total	million gallons		Monitor only. calendar month average	Monitor only. daily maximum	million gallons per day	once per day	Measurement, Continuous	Jan-Dec	

6. Appendices: Limits and Monitoring for Contaminant Categories

Table 1: Gasoline Only Sites				
Parameter	Parameter CAS #	Trout / Drinking Waters (Class 1, 2A, 2Bd) (ug/L, unless noted)	Surface Water Non-drinking (Class 2) (ug/L, unless noted)	Land Application (MNG79) (ug/L, unless noted)
Temperature	-	Monitor Only	Monitor Only	Monitor Only
pH (standard Units, s.u.)	-	6.5-8.5 s.u.	See pH note **	6.0-9.0 s.u.
Flow	-	Monitor Only	Monitor Only	Monitor Only
Benzene	71-43-2	2	5	2
Toluene	108-88-3	5	5	5
Ethylbenzene	100-41-4	5	5	5
Xylene	1330-20-7	5	5	5
Naphthalene	91-20-3	20	20	20
Lead (leaded gas sites)	7439-92-1	1.3 or 3.2*	1.3 or 3.2*	15
DRO	-	200	200	200
GRO	-	200	200	200

Table 1 contains COC (contaminants of concern) parameters assigned to sites with gasoline only contamination.
 * Lead is hardness based, see fact sheet. Default assigned values: 1.3 ug/L for Lake Superior Basin, 3.2 all other surface waters.
 ** pH limit ranges: 2B: 6.5-9.0; Wetlands 2D: 6.0-9.0

Table 2: Fuel Oil and Other Petroleum Related Sites				
Parameter	Parameter CAS #	Trout / Drinking Waters (Class 1, 2A, 2Bd) (ug/L, unless noted)	Surface Water Non-drinking (Class 2) (ug/L, unless noted)	Land Application (MNG79) (ug/L, unless noted)
Temperature	-	Monitor Only	Monitor Only	Monitor Only
pH (standard Units, s.u.)	-	6.5-8.5 s.u.	See pH note **	6.0-9.0 s.u.
Flow	-	Monitor Only	Monitor Only	Monitor Only
Benzene	71-43-2	2	5	2
Toluene	108-88-3	5	5	5
Ethylbenzene	100-41-4	5	5	5
Xylene	1330-20-7	5	5	5
Naphthalene	91-20-3	20	20	20
Acenaphthene	83-32-9	20	20	20
Benzo (a) Anthracene	56-55-3	Monitor Only	Monitor Only	Monitor Only
Benzo (a) Pyrene	50-32-8	Monitor Only	Monitor Only	Monitor Only
Benzo (b) Fluoranthene	205-99-2	Monitor Only	Monitor Only	Monitor Only
Benzo(g,h,i)perylene	191-24-2	Monitor Only	Monitor Only	Monitor Only
Benzo(k)fluoranthene	207-08-9	Monitor Only	Monitor Only	Monitor Only
Chrysene	218-01-9	Monitor Only	Monitor Only	Monitor Only
Dibenzo (a,h) anthracene	53-70-3	Monitor Only	Monitor Only	Monitor Only
Indeno (1,2,3- cd) Pyrene	193-39-5	Monitor Only	Monitor Only	Monitor Only
Acenaphthylene	208-96-8	Monitor Only	Monitor Only	Monitor Only
Anthracene	120-12-7	0.035	0.35	0.35
Fluoranthene	206-44-0	1.9	1.9	1.9
Fluorene	86-73-7	Monitor Only	Monitor Only	Monitor Only
Phenanthrene	85-01-8	3.6	3.6	3.6
Pyrene	129-00-0	Monitor Only	Monitor Only	Monitor Only
PAHs Carcinogenic, Total	-	0.028	0.07	0.028
PAHs non-Carcinogenic, Total	-	0.28	Monitor Only	0.28
DRO	-	200	200	200
GRO	-	200	200	200

Table 2 contains COC parameters assigned to sites other petroleum related sites (diesel, crude oil, etc.)

** pH limit ranges: 2B: 6.5-9.0; Wetlands 2D: 6.0-9.0

Table 3: Mixed Petroleum Sites Containing Other Contaminants				
Parameter	Parameter CAS #	Trout / Drinking Waters (Class 1, 2A, 2Bd) (ug/L, unless noted)	Surface Water Non-drinking (Class 2) (ug/L, unless noted)	Land Application (MNG79) (ug/L, unless noted)
Temperature	-	Monitor Only	Monitor Only	Monitor Only
pH (standard Units, s.u.)	-	6.5-8.5 s.u.	See pH note **	6.0-9.0 s.u.
Flow	-	Monitor Only	Monitor Only	Monitor Only
Benzene	71-43-2	2	5	2
Toluene	108-88-3	5	5	5
Ethylbenzene	100-41-4	5	5	5
Xylene	1330-20-7	5	5	5
Naphthalene	91-20-3	20	20	20
Trichloroethylene (TCE)	79-01-6	5	5	0.4
Carbon Tetrachloride	56-23-5	1.9	5.9	1
1,1 Dichloroethane (DCA)	75-34-3	5	70	5
1,2 Dichloroethane (DCA)	107-06-2	3.8	5	1
1,1 Dichloroethylene (DCE)	75-35-4	3.2	3.2	3.2
cis-1,2 Dichloroethylene (DCE)	156-59-2	50	70	70
1,2-Dichloroethylene (trans-)	76-01-7	50	Monitor Only	40
Dichloromethane (Methylene Chloride)	75-09-2	4.6	4.6	4.6
Tetrachloroethylene (PCE)	127-18-4	3.8	5	5
1,1,1 Trichloroethane (TCA)	71-55-6	200	200	200
1,1,2 Trichloroethane (TCA)	79-00-5	5	5	3
Vinyl Chloride (Chloroethene)	75-01-4	0.18	9.2	0.2
Acenaphthene	83-32-9	20	20	20
Benzo (a) Anthracene	56-55-3	Monitor Only	Monitor Only	Monitor Only
Benzo (a) Pyrene	50-32-8	Monitor Only	Monitor Only	Monitor Only
Benzo (b) Fluoranthene	205-99-2	Monitor Only	Monitor Only	Monitor Only
Benzo(g,h,i)perylene	191-24-2	Monitor Only	Monitor Only	Monitor Only
Benzo(k)fluoranthene	207-08-9	Monitor Only	Monitor Only	Monitor Only
Chrysene	218-01-9	Monitor Only	Monitor Only	Monitor Only
Dibenzo (a,h) anthracene	53-70-3	Monitor Only	Monitor Only	Monitor Only
Indeno (1,2,3- cd) Pyrene	193-39-5	Monitor Only	Monitor Only	Monitor Only
Acenaphthylene	208-96-8	Monitor Only	Monitor Only	Monitor Only
Anthracene	120-12-7	0.035	0.35	0.35
Fluoranthene	206-44-0	1.9	1.9	1.9
Fluorene	86-73-7	Monitor Only	Monitor Only	Monitor Only
Phenanthrene	85-01-8	3.6	3.6	3.6
Pyrene	129-00-0	Monitor Only	Monitor Only	Monitor Only
PAHs Carcinogenic, Total	-	0.028	0.07	0.028
PAHs non-Carcinogenic, Total	-	0.28	Monitor Only	0.28
Lead (leaded gas or other source)	7439-92-1	1.3 or 3.2*	1.3 or 3.2*	15
DRO	-	200	200	200
GRO	-	200	200	200

Table 3 contains COC parameters assigned to sites with petroleum, VOCs, and miscellaneous contamination concerns.

* Lead is hardness based. See Fact Sheet. Assigned values: 1.3 ug/L for Lake Superior Basin, 3.2 all other surface waters.

** pH limit ranges: 2B: 6.5-9.0; Wetlands 2D: 6.0-9.0

Table 4: VOC Only Sites				
Parameter	Parameter CAS #	Trout / Drinking Waters (Class 1, 2A, 2Bd) (ug/L, unless noted)	Surface Water Non-drinking (Class 2) (ug/L, unless noted)	Land Application (MNG79) (ug/L, unless noted)
Temperature	-	Monitor Only	Monitor Only	Monitor Only
pH (standard Units, s.u.)	-	6.5-8.5 s.u.	See pH note **	6.0-9.0 s.u.
Flow	-	Monitor Only	Monitor Only	Monitor Only
Benzene	71-43-2	2	5	2
Toluene	108-88-3	5	5	5
Ethylbenzene	100-41-4	5	5	5
Xylene	1330-20-7	5	5	5
Trichloroethylene (TCE)	79-01-6	5	5	0.4
Carbon Tetrachloride	56-23-5	1.9	5.9	1
1,1 Dichloroethane (DCA)	75-34-3	5	70	5
1,2 Dichloroethane (DCA)	107-06-2	3.8	5	1
1,1 Dichloroethylene (DCE)	75-35-4	3.2	3.2	3.2
cis-1,2 Dichloroethylene (DCE)	156-59-2	50	70	70
trans-1,2-dichloroethene	159-60-5	50	Monitor Only	40
Dichloromethane (Methylene Chloride)	75-09-2	4.6	4.6	4.6
Tetrachloroethylene (PCE)	127-18-4	3.8	5	5
1,1,1 Trichloroethane (TCA)	71-55-6	200	200	200
1,1,2 Trichloroethane (TCA)	79-00-5	5	5	3
Vinyl Chloride (Chloroethene)	75-01-4	0.18	9.2	0.2

Table 4 contains COC parameters assigned to sites with contamination related to VOCs only.
 ** pH limit ranges: 2B: 6.5-9.0; Wetlands 2D: 6.0-9.0

Table 5: VOC Sites with Other Contaminats				
Parameter	Parameter CAS #	Trout / Drinking Waters (Class 1, 2A, 2Bd) (ug/L, unless noted)	Surface Water Non-drinking (Class 2) (ug/L, unless noted)	Land Application (MNG79) (ug/L, unless noted)
Temperature	-	Monitor Only	Monitor Only	Monitor Only
pH (standard Units, s.u.)	-	6.5-8.5 s.u.	See pH note **	6.0-9.0 s.u.
Flow	-	Monitor Only	Monitor Only	Monitor Only
Benzene	71-43-2	2	5	2
Toluene	108-88-3	5	5	5
Ethylbenzene	100-41-4	5	5	5
Xylene	1330-20-7	5	5	5
Naphthalene	91-20-3	20	20	20
Dibromochloromethane	124-48-1	10	80	10
Methyl ethyl ketone (aka 2-Butanone, MEK)	78-93-3	90	Monitor Only	90
Trichloroethylene (TCE)	79-01-6	5	5	0.4
Carbon Tetrachloride	56-23-5	1.9	5.9	1
1,1 Dichloroethane (DCA)	75-34-3	5	70	5
1,2 Dichloroethane (DCA)	107-06-2	3.8	5	1
1,1 Dichloroethylene (DCE)	75-35-4	3.2	3.2	3.2
cis-1,2 Dichloroethylene (DCE)	156-59-2	50	70	70
trans-1,2-dichloroethene	159-60-5	50	Monitor Only	40
Dichloromethane (Methylene Chloride)	75-09-2	4.6	4.6	4.6
Tetrachloroethylene (PCE)	127-18-4	3.8	5	5
1,1,1 Trichloroethane (TCA)	71-55-6	200	200	200
1,1,2 Trichloroethane (TCA)	79-00-5	5	5	3
Vinyl Chloride (Chloroethene)	75-01-4	0.18	9.2	0.2
Acenaphthene	83-32-9	20	20	20
Benzo (a) Anthracene	56-55-3	Monitor Only	Monitor Only	Monitor Only
Benzo (a) Pyrene	50-32-8	Monitor Only	Monitor Only	Monitor Only
Benzo (b) Fluoranthene	205-99-2	Monitor Only	Monitor Only	Monitor Only
Benzo(g,h,i)perylene	191-24-2	Monitor Only	Monitor Only	Monitor Only
Benzo(k)fluoranthene	207-08-9	Monitor Only	Monitor Only	Monitor Only
Chrysene	218-01-9	Monitor Only	Monitor Only	Monitor Only
Dibenzo (a,h) anthracene	53-70-3	Monitor Only	Monitor Only	Monitor Only
Indeno (1,2,3- cd) Pyrene	193-39-5	Monitor Only	Monitor Only	Monitor Only
Acenaphthylene	208-96-8	Monitor Only	Monitor Only	Monitor Only
Anthracene	120-12-7	0.035	0.35	0.35
Fluoranthene	206-44-0	1.9	1.9	1.9
Fluorene	86-73-7	Monitor Only	Monitor Only	Monitor Only
Phenanthrene	85-01-8	3.6	3.6	3.6
Pyrene	129-00-0	Monitor Only	Monitor Only	Monitor Only
PAHs Carcinogenic, Total	-	0.028	0.07	0.028
PAHs non-Carcinogenic, Total	-	0.28	Monitor Only	0.28
Lead (leaded gas or other source)	7439-92-1	1.3 or 3.2*	1.3 or 3.2*	15

Table 5 contains COC parameters assigned to more complex sites with multiple sources.
 * Lead is hardness based, see Fact Sheet. Default assigned values: 1.3 ug/L for Lake Superior Basin, 3.2 all other surface waters.
 ** pH limit ranges: 2B: 6.5-9.0; Wetlands 2D: 6.0-9.0

Table 6: Total Suspended Solids (TSS) Limits For Discharges		
Water Class	Applicable Areas	TSS Calendar Average (mg/L)
All*	Statewide. *Except surface waters located within the areas indicated below.	30
2A	Statewide	10
2B & 2Bd	Northern Minnesota Wetlands Ecoregion, and Northern Lakes and Forests Ecoregion	15
Groundwater	Land Application and infiltration sites statewide	30

Table 6 provides the TSS limits that will be assigned to facilities based upon the classification of the water receiving the discharge. Sites will be assigned the most restrictive limit applicable.