MINNESOTA POLLUTION CONTROL AGENCY

AUTHORIZATION TO DISCHARGE

STORMWATER ASSOCIATED WITH INDUSTRIAL ACTIVITY

UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)/

STATE DISPOSAL SYSTEM (SDS) PROGRAM

MNR050000

Permittee (Owner):	Multiple		
City or Township:	Statewide	**County:**	Statewide
Issuance date:	**June 1, 2025**		
Expiration date:	**March 31, 2030**		

The state of Minnesota, on behalf of its citizens through the Minnesota Pollution Control Agency (MPCA), authorizes the Permittee named above seeking coverage under this general permit to discharge stormwater associated with industrial activity to waters of the state of Minnesota 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: Theresa Haugen *for the* Minnesota Pollution Control Agency

This document has been electronically signed.

Theresa Haugen
Manager
Water and Mining Section
Industrial Division

Permit application & reports:
Submit via the MPCA Online e-Services Portal at
https://rsp.pca.state.mn.us/

Questions?
Contact the Stormwater Program at:
iswprogram.pca@state.mn.us or
651-757-2119 or 800-657-3804

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PERMIT REQUIREMENTS

1.1	**PART I. PERMIT AUTHORIZATION**. [Minn. R. 7090]
1.2	This permit authorizes stormwater discharges associated with industrial activity for any primary SIC code and/or narrative activities and co-located industrial activities, as defined in 40 C.F.R. 122.26(b)(14)(i) to (xi), except (x), which includes ten categories of industrial activity required to obtain an industrial stormwater permit. The categories are organized by 29 sectors of industrial activity listed in Appendix A. [Minn. R. 7090.0010]
1.3	For sectors J and L that have construction stormwater discharges, as defined in 40 C.F.R. parts 122.26(b)(14)(x) and (b)(15), a separate construction stormwater permit is not required if the Permittee notifies the MPCA in writing or by electronic correspondence prior to starting construction activity as described in Sector J - Mineral Mining and Dressing and Sector L - Landfills and Land Application Sites. [Minn. R. 7090]
2.1	**Prohibitions and Limitations on Authorization**. [Minn. R. 7090]
2.2	This permit does not authorize the following activities, discharges, or releases: A. Non-stormwater discharges; B. Non-contact cooling water; C. Domestic and industrial wastewater and process wastewater. For example, wash water, commercial equipment and/or vehicle cleaning; D. Biosolids; E. Spills of any substance that may cause water pollution as defined in Minn. Stat. 115.01, subd. 13; F. Placement of fill into waters of the state requiring local, state, or federal authorizations (such as US Army Corps of Engineers Section 404 Permits, Department of Natural Resources Public Waters Work Permits, or Local Governmental Unit Wetland Conservation Act replacement plans or determinations); G. Piping and drainage systems for process wastewater and floor drains from process areas that lead to the stormwater drainage system must be separated from the storm drainage system to prevent any inadvertent discharge of pollutants. The Permittee shall obtain a separate NPDES/SDS permit for process wastewater discharges; H. Non-stormwater discharges mixed with stormwater; I. Stormwater discharges from any portion of the facility where stormwater discharge has authorization under an NPDES/SDS permit; J. Stormwater discharges associated with construction activity as defined in 40 C.F.R. 122.26(b)(14)(x) and (b)(15); K. Discharges to impaired water(s) when a US EPA-approved Total Maximum Daily Load (TMDL) report applies a Waste Load Allocation of zero (0) to a specific facility or industrial activity; L. Discharges to an impaired water when a US EPA-approved TMDL report has identified a specific facility or industrial activity that requires stormwater control measures, BMP provisions, or compliance schedules not contained in this permit for that impaired water; M. Industrial stormwater discharges flowing to prohibited waters, as defined in Minn. R. 7050.0335; and N. Any discharges or activities described under "Limitations on Authorization" in the sector-specific requirements of the permit. [40 CFR 122.26, Minn. R. 7090, Minn. Stat. 115.01, subd. 13, Minn. Stat. 116D]
2.3	This permit does not replace or satisfy any environmental review requirements, including those under the Minnesota Environmental Policy Act (Minn. Stat. ch. 116D), or the National Environmental Policy Act (42 U.S.C. 4321 to 4370f). The SWPPP must include any stormwater mitigation measures proposed to be part of the final project in any environmental review. [40 CFR 122.26, Minn. R. 7090, Minn. Stat. 115.01, subd. 13, Minn. Stat. 116D]
2.4	This permit does not replace or satisfy any review requirements for endangered or threatened species, from new or expanded discharges that adversely impact or contribute to adverse impacts on a listed endangered or threatened species, or adversely modify a designated critical habitat. [40 CFR 122.26, Minn. R. 7090, Minn. Stat. 115.01, subd. 13, Minn. Stat. 116D]
2.5	This permit does not replace or satisfy any review requirements for historic places or archeological sites, from new or expanded discharges which adversely affect properties listed or eligible for listing in the National Register of Historic Places or affecting known or discovered archeological sites. [40 CFR 122.26, Minn. R. 7090, Minn. Stat. 115.01, subd. 13, Minn. Stat. 116D]
2.6	Industrial stormwater discharges entering waters of the United States in Indian country, as that term is defined in 18 U.S.C. 1151, are not eligible for coverage under this permit. [18 U.S.C..1151, 40 CFR 122.2, Minn. R. 7090]

2.7	This permit authorizes the following discharges or activities provided the Permittee complies with all terms and conditions of this permit, and all terms and conditions of the Additional Requirements for Discharges to Special (Prohibited, Restricted, Other) and Impaired Waters section of this permit: A. Industrial stormwater discharges flowing to restricted waters as defined in Minn. R. 7050.0335; B. Industrial stormwater discharges flowing to trout waters listed in Minn. R. chs. 6264.0050, subp. 2 and 4, and 7050.0420; and C. Industrial stormwater discharges flowing to wetlands as defined in Minn. R. 7050.0186, subp. 1a(B). [Minn. R. 6264.0050, subp. 2, Minn. R. 6264.subp. 4, Minn. R. 7050.0186, subp. 1a(B), Minn. R. 7050.0335, Minn. R. 7050.0420, Minn. R. 7090]
2.8	This permit does not prohibit the following activities: A. Authorized non-stormwater discharges; B. Authorized non-stormwater discharges from emergency firefighting activities, except those activities including PFAS-containing foam; C. Uncontaminated non-stormwater discharges not already listed in the Prohibitions and Limitations on Authorization section; and D. Sites within sectors J and L with stormwater discharges associated with construction activity as defined in 40 C.F.R. 122.26(b)(14)(x) and (b)(15) that have construction stormwater discharges, as defined in 40 C.F.R. parts 122.26(b)(14)(x) and (b)(15) and have notified the MPCA prior to construction activity. [40 CFR 122.26]
3.1	**Eligibility Requirements**. [Minn. R. 7090]
3.2	To be eligible for authorization to discharge industrial stormwater under this permit, the Owner/Operator's facility shall have a primary Standard Industrial Classification (SIC) code or narrative activity as defined in 40 C.F.R. 122.26(b)(14)(i) to (xi), except (x), and as summarized in Appendix A. [Minn. R. 7090]
4.1	**Obtaining Coverage**. [Minn. R. 7090]
4.2	To obtain coverage under this general permit, the applicant shall: A. Meet the eligibility requirements of this permit; B. Develop and implement a Stormwater Pollution Prevention Plan (SWPPP) in accordance with the requirements of the Stormwater Pollution Prevention Plan (SWPPP) section of this permit prior to submitting an application to the MPCA; C. Submit a complete and accurate permit application with appropriate fee, on a form the MPCA provides, and certify that the applicant has completed a SWPPP; and D. Receive written or electronic notification from the MPCA granting permit coverage. [Minn. R. 7090]
4.3	The MPCA issues a facility-specific notice of coverage to facilities that obtain coverage under this general permit. The notice of coverage includes effluent limits and/or benchmark monitoring value requirements, located in Appendix B of this permit, specific to the facility. [Minn. R. 7090]
5.1	**Submitting an Application**. [Minn. R. 7090]
5.2	Any facility that has, or proposes to have, a stormwater discharge associated with industrial activity for any primary SIC code and/or narrative activities and co-located industrial activities regulated under 40 C.F.R. 122.26(b)(14)(i) to (xi), except (x), as summarized in Appendix A, needs to apply for industrial stormwater permit coverage or certify for No Exposure. [Minn. R. 7090, Minn. R. 7090.3060]
5.3	Permittees are authorized to discharge industrial stormwater from their facility under the terms and conditions of this permit beginning on the issuance date listed on their notice of coverage. [Minn. R. 7090]
5.4	To continue permit coverage beyond the date of permit expiration, Permittees shall submit an application for permit reissuance: Due by 180 days prior to permit expiration. If the Permittee has submitted a timely application, the Permittee may continue to conduct the activities authorized by this permit, in compliance with the requirements of this permit, until the MPCA takes final action on the application, unless the MPCA determines any of the following (Minn. R. 7001.0040 and 7001.0160): A. The Permittee is not in substantial compliance with the requirements of this permit, or with a stipulation agreement or compliance schedule designed to bring the Permittee into compliance with this permit; or B. The Permittee has submitted an application with major deficiencies or has failed to properly supplement the application. [Minn. R. 7001.0040, Minn. R. 7001.0160]
5.5	The MPCA may deny authorization under this permit and require the applicant to submit an application for a separate NPDES/SDS permit in accordance with Minn. R. ch. 7001. [Minn. R. 7001, Minn. R. 7090.0020]

5.6	Permittees of existing facilities with coverage under the Industrial Stormwater General Permit shall submit an administrative modification to the permit if they need to: A. Update the facility name; B. Change description of business activity; C. Update contact information (i.e. contact names, phone numbers, emails, etc.); D. Change acreage of industrial activity; E. Discharge to a newly impaired water; or F. Change ownership of the facility. [Minn. R. 7090]
5.7	An Owner/Operator of a facility that has, or proposes to have, a stormwater discharge associated with industrial activity for any primary SIC code and/or narrative activities and co-located industrial activities regulated under 40 C.F.R. 122.26(b)(14))(i) to (xi), except (x), as summarized in Appendix A, that is seeking a conditional exclusion for No Exposure in accordance with this Part of the permit shall submit an application to obtain the No Exposure Exclusion. Any facility that obtains a conditional exclusion for No Exposure prior to the effective date of this permit must submit a new application for the No Exposure Exclusion. A facility seeking the No Exposure Exclusion does not need to develop a SWPPP. [Minn. R. 7090.3060]
6.1	**MS4 Notification**. [Minn. R. 7090]
6.2	If the Permittee directly discharges into a regulated Municipal Separate Storm Sewer System (MS4), the Permittee shall notify the MS4 operator that they are discharging industrial stormwater into their storm sewer system within 30 days of receiving a notice of coverage and must keep a record of the notification. [Minn. R. 7090]
7.1	**Transfer of Ownership or Control**. [Minn. R. 7090]
7.2	When the ownership or operational control of the facility changes, the Permittee must submit an application to the MPCA for permit transfer as designated by the MPCA. The new Owner/Operator shall sign, certify, and submit the application to the MPCA on or before the effective date of the change. The new Owner/Operator shall comply with the terms and conditions of this permit. [Minn. R. 7090.2060]
8.1	**Termination of Coverage**. [Minn. R. 7090]
8.2	Permittees shall comply with this permit until the Permittee completes and submits a Notice of Termination request. The Permittee shall sign and submit a Notice of Termination request within 30 days after one or more of the following conditions are met: A. The Permittee ceases industrial activity regulated under this permit and eliminates the contact of stormwater with significant materials; or B. The Permittee obtains authorization under an individual NPDES/SDS permit or industry specific general NPDES/SDS permit for industrial stormwater discharges. [Minn. R. 7090]
8.3	Authorization to discharge industrial stormwater under this permit terminates after the Permittee receives either written or electronic notification of coverage termination by the MPCA. [Minn. R. 7001.0030]
9.1	**Issuance of an Individual Permit**. [Minn. R. 7090]
9.2	In place of general permit coverage, an Owner/Operator may apply for an individual permit to authorize industrial stormwater discharges, in accordance with Minn. R. 7001.0210, subp. 6. [Minn. R. 7001.0210, subp. 6]
9.3	The MPCA may require an individual permit for the applicant or Permittee, in accordance with Minn. R. 7001.0210, subp. 6. [Minn. R. 7001.0210, subp. 6]
10.1	**Monitoring and Reporting Requirements**. [Minn. R. 7090]
10.2	Monitoring and reporting requirements in this part do not apply to unstaffed, inactive and temporarily inactive facilities or sites undergoing reclamation. [Minn. R. 7090]
10.3	If a Permittee is ending their permit coverage to certify for No Exposure Exclusion, a separate Notice of Termination is not required. The permit coverage will automatically end when the Permittee completes the No Exposure Exclusion application. [Minn. R. 7090]
11.1	**Responsibilities**. [Minn. R. 7090]
11.2	The Owner/Operator, who signs the application, is the Permittee and is responsible for compliance with all terms and conditions of this permit. [Minn. R. 7001.0150, subp. 3, Minn. R. 7090]
12.1	**PART II. STORMWATER CONTROL MEASURES**. [Minn. R. 7090]

12.2	The Permittee shall design and implement BMPs for each stormwater control measure below. The Permittee shall design and implement all stormwater control measures, including BMPs, to reduce or eliminate contact or exposure of pollutants to stormwater or remove pollutants from stormwater prior to discharge from the facility. The SWPPP must include the type and objective of the BMP, and a description of how the Permittee shall evaluate each BMP to determine proper function. The Permittee shall implement all non-structural BMPs immediately and all structural BMPs within 12 months of receiving authorization to discharge industrial stormwater under this permit. [Minn. R. 7090]
13.1	**Good Housekeeping**. [Minn. R. 7090]
13.2	The Permittee shall keep exposed areas that may contribute pollutants to stormwater sufficiently clean to reduce or eliminate contaminated stormwater runoff. Typical problem areas include but are not limited to: A. Trash containers, storage areas, loading docks, vehicle fueling, maintenance areas; B. Locations where dust is generated. Identify and properly manage through BMPs all on-site sources of dust to minimize stormwater contamination from the deposition of dust on the areas exposed to precipitation; and C. Locations where vehicle tracking of significant materials occur, the Permittee shall remove and properly dispose of significant materials that have been tracked off-site within one day of discovery. [Minn. R. 7090]
14.1	**Eliminating and Reducing Exposure**. [Minn. R. 7090]
14.2	The Permittee shall evaluate their stormwater control measures of their significant materials to determine if and how they can reduce or eliminate exposed materials. To the extent prudent and feasible, the Permittee shall situate industrial activities and significant materials in areas not exposed to rain, snow, snowmelt, or runoff. [Minn. R. 7090]
15.1	**Salt storage, management and use at the facility (If present at the facility)**. [Minn. R. 7090]
15.2	The Permittees shall implement the following BMPs if salt are present at the facility: A. Cover salt piles or store the salt within a storm-resistant shelter on an impervious surface; B. Implement practices to reduce exposure resulting from adding or removing material from the salt piles (e.g., sweeping, diversions, containment); and C. Document within the SWPPP the location of any salt stored outside. [Minn. R. 7090]
15.3	The Permittee shall document within the SWPPP how the facility employees and/or hired contractors will minimize runoff from the use of salt or other de-icing/anti-icing materials used on the facility property. [Minn. R. 7090]
16.1	**Erosion Prevention and Sediment Control**. [Minn. R. 7090]
16.2	The Permittee shall identify areas at the facility that, due to topography, land disturbance (e.g. construction, grading, landscaping), or other factors, have potential for soil erosion. In those areas, the Permittee shall implement structural, vegetative, and/or stabilization BMPs to prevent or control on-site erosion and reduce sediment loads in stormwater discharges. [Minn. R. 7090]
17.1	**Chemical Additive Use**. [Minn. R. 7090]
17.2	If the Permittee intends to use polymers, flocculants, or other sedimentation treatment chemicals at the facility, the Permittee shall comply with the following minimum requirements: A. The Permittees must use conventional erosion and sediment controls prior to chemical addition to ensure effective treatment; B. Chemicals may only be applied where treated stormwater flows to a sediment control system that allows for filtration or settlement of the floc prior to discharge; C. Chemicals must be selected that are appropriately suited to the types of soils likely to be exposed to stormwater runoff at the facility, and to the expected turbidity, pH, and flow rate of stormwater flowing into the chemical treatment system; D. Use chemicals in accordance with standard engineering practices, and with dosing specifications and sediment removal design specifications of the manufacturer or chemical supplier. [Minn. R. 7090]
17.3	The SWPPP must contain an inventory of all chemical additives the Permittee uses to treat stormwater including, at a minimum, the following: A. The process for the use of the additive. B. The method of application, application frequency, concentration, and daily average and maximum rates of use. C. A complete product use and instruction label. D. Safety Data Sheet (SDS), for the additive(s), which must include: i. Aquatic toxicity, human health, and environmental fate information for the additive. The aquatic toxicity information must 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; and ii. The commercial and chemical names and Chemical Abstract Survey (CAS) number for all ingredients in the additive to the extent possible. [Minn. R. 7090]
17.4	The Permittee shall retain chemical additive use records for at least three years. [Minn. R. 7090]
18.1	**Management of Runoff**. [Minn. R. 7090]
18.2	The SWPPP must describe all permanent stormwater BMPs the Permittee implements at the facility to manage runoff, including, but not limited to, the permanent structural BMPs used to divert stormwater runoff away from fueling, manufacturing, treatment, storage, and disposal areas, and BMPs that treat, infiltrate, reuse, contain, or otherwise reduce pollutants in stormwater discharges. [Minn. R. 7090]
18.3	Where necessary, the Permittee shall install and maintain stormwater outlet protection measures to prevent erosion at all areas where stormwater is discharging from the Permittee's operational control. [Minn. R. 7090]
18.4	Permittees shall take measures to limit the discharge of stormwater to or from areas that have been impacted by the release of a pollutant or contaminant and prevent potential pollutant mobilization through subsurface soils. [Minn. R. 7060.0200, Minn. Stat. 115.03]
18.5	Industrial stormwater ponds and infiltration systems must not contribute to a pollutant or contaminant spreading to a greater extent or magnitude in locations that are under other regulatory authority where pollutants or contaminants exist in the soil or in the shallow aquifer. A qualified professional (e.g. professional hydrogeologist, engineer, etc.) shall conduct a site analysis evaluating for extent and magnitude of impacted soil and groundwater and file a report with the SWPPP for any pollutant or contaminant on-site. [Minn. R. 7090, Minn. Stat. 115.03]
18.6	If the Permittee finds that industrial stormwater ponds and infiltration systems are a contributor to contaminant increases or movement, the Permittee shall submit a plan to the MPCA that describes how the Permittee will reduce contaminants, or will redesign, relocate, or eliminate the industrial stormwater ponds and infiltration systems, as needed, to eliminate the contribution to contaminant problems. The Permittee shall submit the plan to the MPCA within one year of the Permittee's authorization to discharge under this permit or within one year of discovery if the Permittee discovers their ponds or infiltration systems are a contributor of contaminant spreading. The Permittee shall implement the plan as soon as the MPCA grants approval. The plan does not reduce or eliminate more stringent requirements that other MPCA regulatory programs may impose. If the Permittee and the MPCA cannot seek agreement with an acceptable plan, the Permittee shall apply for an individual NPDES/SDS permit. [Minn. R. 7090]
18.7	This permit prohibits Permittees from constructing infiltration systems in areas within 1,000 feet up-gradient or 100 feet down-gradient of active karst features. The Permittee shall not use industrial stormwater ponds and infiltration systems in any high-risk karst area unless a qualified professional (e.g. professional hydrogeologist, engineer, etc.) conducts a geotechnical evaluation to ensure that the industrial stormwater pond or infiltration system does not present a significant risk to groundwater. The Minnesota Stormwater Manual describes standard engineering practices. The Manual can be found on the MPCA's website. If the industrial stormwater ponds and infiltration systems present a risk, the Permittee shall take appropriate measures to minimize or eliminate the risk, such as sealing or removal of the industrial stormwater ponds or infiltration systems. The Permittee shall document the evaluation with the SWPPP. [Minn. R. 7090]
18.8	This permit prohibits the construction of a new infiltration system in the following areas: A. Areas that receive discharges from vehicle fueling and maintenance activity; B. Areas with less than three feet of separation distance from the bottom of the infiltration system to the elevation of the seasonally saturated soils or the top of bedrock; C. Areas of predominately Hydrologic Soil Group D (clay) soils; and D. Areas where soil infiltration rates are field measured at more than 8.3 inches per hour unless the Permittee amends the soil to slow the infiltration rate below 8.3 inches per hour. [Minn. R. 7090]
18.9	The Permittee shall coordinate construction of industrial stormwater ponds in DWSMAs with local drinking water authorities and design them to not adversely affect drinking water supplies. The Permittee shall contact the appropriate local drinking water authorities and document coordination efforts with the SWPPP. [Minn. R. 7090]
18.10	This permit prohibits Permittees from constructing infiltration systems within an Emergency Response Area (ERA) within a Drinking Water Supply Management Area (DWSMA) classified as having high vulnerability as defined by the Minnesota Department of Health (MDH). Permittees shall review and apply the requirements found in the "Guidance and recommendations for conducting a higher

	level of engineering review for stormwater infiltration in DWSMAs and Wellhead Protection Areas" section of the Minnesota Stormwater Manual (www.pca.state.mn.us) for infiltration systems constructed: A. In an ERA within a DWSMA classified as moderate vulnerability unless a regulated MS4 Permittee performed or approved a higher level of engineering review sufficient to provide a functioning treatment system and to prevent adverse impacts to groundwater; or B. Outside of an ERA within a DWSMA classified as having high vulnerability, unless a regulated MS4 Permittee performed or approved a higher level of engineering review sufficient to provide a functioning treatment system and to prevent adverse impacts to groundwater. [Minn. R. 7090]
18.11	Permittees with any infiltration system defined as a US EPA "Class V injection well" shall contact the US EPA Region V to determine the need to register as a "Class V injection well." Refer to the US EPA Underground Injection Well Program for the definitions and complete registration process. The Permittee shall document contacts and US EPA response with the SWPPP. [Minn. R. 7090]
19.1	**Facility Inspection Requirements**. [Minn. R. 7090]
19.2	Unless the facility is inactive and unstaffed, the Permittee shall develop and implement an inspection schedule that includes a minimum of one facility inspection per calendar month that the facility is active and staffed. Further, the Permittee shall conduct a minimum of one of these inspections per calendar year during a rain or snowmelt runoff event. Sector specific requirements may include an additional runoff inspection. [Minn. R. 7090]
19.3	If a facility is inactive and unstaffed, monthly facility inspections are not required as long as there are no industrial materials or activities exposed to stormwater. However, the Permittee shall include the following in the SWPPP: A. BMP implementation that assures adequate protection of all waters receiving industrial stormwater discharges from the facility during the months the facility is inactive and unstaffed; and B. Which months the facility was inactive and unstaffed. [Minn. R. 7090]
19.4	All facility inspections must include the following: A. An evaluation of the facility to determine that the SWPPP accurately reflects site conditions. At a minimum, the Permittee shall inspect storage tank areas, waste disposal areas, maintenance areas, loading/unloading areas, and raw material, intermediate product, by-product and final product storage areas; B. An evaluation of all structural and non-structural BMPs to determine effectiveness and proper function; C. An evaluation of the facility to determine whether there are new exposed significant materials or activities at the site since completion of the SWPPP; and D. During an inspection conducted during a runoff event, an evaluation of the stormwater runoff to determine discoloration or if other contaminants are visible in the runoff (e.g. oil & grease). [Minn. R. 7090]
19.5	The Permittee shall document all inspections and the following information must be stored with the SWPPP: A. Inspection date (i.e. mm/dd/yyyy), time, and weather conditions; B. Inspector name; C. Inspection findings; and D. A description of any necessary corrective actions and a schedule for corrective action completion. [Minn. R. 7090]
20.1	**Maintenance Requirements**. [Minn. R. 7090]
21.1	**BMP Maintenance**. [Minn. R. 7090]
21.2	The Permittee shall maintain all stormwater BMPs at the facility, to ensure BMP effectiveness. The Permittee shall develop a schedule for preventive maintenance of all stormwater BMPs and store the schedule with the SWPPP. If the Permittee identifies BMPs that are not functioning properly, the Permittee shall replace, maintain, or repair the BMPs within seven calendar days of discovery. If the Permittee cannot complete BMP replacement, maintenance, or repair within seven calendar days, the Permittee shall implement effective backup BMPs within 48 hours of discovery and maintain the backup BMPs until the Permittee restores the effectiveness of the original BMPs. The Permittee shall document the justification for an extended replacement, maintenance, or repair schedule of the failed BMPs, and store it with the SWPPP. The Permittee shall record dates of all maintenance and repairs. The Permittee shall store these records with the SWPPP. [Minn. R. 7090]
21.3	Stormwater sedimentation basins and infiltration basins must have maintenance plans that are included within the SWPPP. The plans must include but aren't limited to information detailing how the basin will be maintained and

	monitored to ensure effectiveness. The plans must include a description of the minimal maintenance frequency that will be implemented. There shall be no outflow from the stormwater sedimentation basin while sediment is being removed from the basin. Permanent erosion control, such as rip rap, splash pads, or gabions shall be installed at the outlet(s) to prevent downstream erosion. [Minn. R. 7090]
22.1	**Equipment Preventative Maintenance**. [Minn. R. 7090]
22.2	The Permittee shall develop and implement a preventive maintenance program and store the information with the SWPPP. The program must require regular inspection, maintenance, and repair of industrial equipment and systems. The inspections must identify conditions that could cause breakdowns or failures, which may result in leaks, spills, and other releases (e.g. hydraulic leaks, torn bag-house filters, etc.), and the discharge of pollutants to stormwater. The preventive maintenance program may incorporate, by reference, a separate Operation and Maintenance Manual (or equivalent), as long as it addresses the items the preventive maintenance program requires above. [Minn. R. 7090]
23.1	**Elimination of Unauthorized Non-Stormwater Discharges**. [Minn. R. 7090]
23.2	The Permittee shall evaluate and document all non-stormwater discharges and eliminate all discharges not authorized by this permit or a separate NPDES/SDS permit. The Permittee shall document the evaluation with the SWPPP, and must include: A. The date of any evaluation; B. A description of the evaluation criteria used; C. A list of monitoring locations the Permittee observes during the evaluation; D. The different types of non-stormwater discharges and source locations; and E. The action(s) taken, such as a list of control measures used to eliminate any unauthorized discharge(s) the Permittee identifies. [Minn. R. 7090]
24.1	**Spill Prevention and Response Requirements**. [Minn. R. 7090]
24.2	The Permittee shall develop and implement a spill prevention and response plan. If the facility already has a separate plan (e.g. Prevention and Response Plan as required by Minn. Stat. ch. 115E, or Spill Prevention Control and Countermeasure (SPCC) Plan as required by Federal Law), that Permittee can incorporate the plan by reference into the SWPPP. In either case, the Permittee shall include a minimum of the following components with the SWPPP or in a separate SPCC document: A. Areas where the storage, transfer, or use of solid or liquid significant materials occurs and, where spills and leaks of the material may potentially contribute pollutants to stormwater discharges; B. Identify areas, monitoring locations and surface waters that may be affected by spills, leaks, or discharges from emergency firefighting activities; C. Report and document spills or leaks (pursuant to Minn. Stat. 115.061) that occur in exposed areas, or that drain to a monitoring location; D. Material handling procedures, storage requirements, and cleanup equipment/materials and procedures necessary to recover as rapidly and thoroughly as possible spills or leaks pursuant to Minn. Stat. 115.061. The Permittee shall make all methods and procedures available to appropriate facility personnel; E. Contact information for individuals and emergency and regulatory agencies that require notification in the event of a spill. When a spill or discharge of a potentially polluting material occurs, the Permittee shall immediately notify the Minnesota Department of Public Safety Duty Officer at 800-422-0798 (toll free) or 651-649-5451 (metro area) per Minn. Stat. 115.061; and F. Any use or release of PFAS-containing foam must immediately be reported to the Minnesota Duty Officer by calling 800-422-0798 or 651-649-5451. Permittees must detail in their spill response plan all actions that will be taken to prevent finished Class B foam and foam-containing firefighting runoff water from entering stormwater systems or flowing to surface waters. [Minn. R. 7090]
24.3	The Permittee shall ensure the use of infiltration is not part of a spill containment plan. This includes spill plans required under Federal Spill Prevention Containment and Control (SPCC requirements) requirements or Minn. Stat. ch. 115E "The Spill Bill". [Minn. R. 7090]
24.4	The Permittee shall ensure the use of a pond is not part of a spill containment plan, including spill plans required under Federal SPCC requirements or Minn. Stat. ch. 115E, unless appropriate controls are in place to contain the spill. If the Permittee uses a pond as part of a spill containment plan, the pond must have a chemically compatible liner for chemical spills that the Permittee expects to enter the pond and must have outlet controls to contain a spill. A plan must also be in place to clean up a spill so that the pond will not continue to be a source of spilled pollutants. The Permittee shall

	document evaluations with the SWPPP. [Minn. R. 7090]
25.1	**Mercury Minimization Plan**. [Minn. R. 7090]
25.2	The Permittee shall evaluate the facility to determine if stormwater has the potential to come into contact with any mercury sources. If mercury sources are exposed to stormwater, the Permittee shall develop a Mercury Minimization Plan that describes how the Permittee will manage mercury sources at the site to eliminate exposure to precipitation and stormwater runoff. To the extent feasible, the Permittee shall remove and manage mercury sources and devices from stormwater exposure in accordance with Minn. R. ch. 7045, Hazardous Waste, and any additional applicable state and federal rules. [Minn. R. 7090]
26.1	**Employee Training Program**. [Minn. R. 7090]
26.2	The Permittee shall develop and implement a training program for employees. Training must cover stormwater control measures, components and goals of the SWPPP, monitoring procedures, and other applicable requirements of the permit. The program must include a training schedule that includes training at least annually. Training must correlate with the job function of the employee. The Permittee shall ensure that employees identified below in this Employee Training Program section are familiar with facility specific stormwater plans, requirements, and BMPs at the facility. The Permittee shall ensure that individuals receive training prior to assuming responsibilities listed in this Employee Training Program section. [Minn. R. 7090]
26.3	At a minimum, the Permittee shall ensure that the following individuals receive training: A. Employee(s) responsible for writing, revising, and implementing the SWPPP; B. Employee(s) responsible for installing, inspecting, maintaining, and repairing BMPs; C. Employee(s) whose work involves the regulated industrial activity, including but not limited to: i. Loading/unloading areas; ii. Processing areas; iii. Waste and fluid management areas; iv. Fueling areas; and v. Vehicle maintenance areas. D. Employee(s) who conduct stormwater discharge monitoring; and E. Employee(s) responsible for conducting winter maintenance activities. [Minn. R. 7090]
26.4	The Permittee shall maintain training records including: A. The trainer's name and trainer's organization (internal or external); B. The names (printed first and last) of the employee(s) and date(s) the employee(s) received training; and C. A detailed description of the training provided to each employee. [Minn. R. 7090]
26.5	The Permittee shall maintain the training records either in the SWPPP, or in a separate record stored with the SWPPP, for at least three years. [Minn. R. 7090]
27.1	**PART III. STORMWATER POLLUTION PREVENTION PLAN (SWPPP)**. [Minn. R. 7090]
28.1	**General SWPPP Requirements**. [Minn. R. 7090]
28.2	A. The Permittee shall develop, implement, and maintain a SWPPP for each facility authorized by this permit. B. The Permittee shall complete a SWPPP prior to submitting the permit application. C. A Permittee with authorization under the previous version of this permit shall modify the SWPPP to comply with the requirements of this permit prior to submitting the application. D. The SWPPP must identify the individuals responsible for managing, implementing, maintaining, modifying, and ensuring compliance with the facility's SWPPP. E. The Permittee shall incorporate into the SWPPP, a section specific to any mobile industrial activities the Permittee conducts away from the facility. The section must address each stormwater control measure required by this permit, and sector specific requirements of all applicable sectors. The Permittee shall keep a copy of this section of the SWPPP at the location where the mobile industrial activity occurs. F. Any sector specific SWPPP requirements must be in addition to SWPPP requirements in this section of the permit. G. The SWPPP must list all personnel receiving training to conduct facility inspections. H. The SWPPP must include records of all details relating to the monthly visual inspections in accordance with the Stormwater Control Measures section of this permit. I. The SWPPP must include all information pertaining to maintenance in accordance with the Stormwater Control Measures section of this permit.

	J. The SWPPP must include all documentation pertaining to the elimination of unauthorized non-stormwater discharges as required by the Stormwater Control Measures section of this permit. K. The SWPPP must contain, or the Permittee shall keep as a separate document, any documentation the Spill Prevention and Response Requirements of the Stormwater Control Measures section of this permit requires. L. The SWPPP must contain a Mercury Minimization Plan if the Permittee discovers mercury sources as a result of compliance with the Stormwater Control Measures section of this permit. M. The SWPPP must include all information regarding the Employee Training Program requirements from the Stormwater Control Measures section of this permit. N. The SWPPP must describe all stormwater BMPs the Permittee implements at the facility to manage runoff, including, but not limited to: i. The permanent structural BMPs used to divert stormwater runoff away from fueling, manufacturing, treatment, storage, and disposal areas; and ii. BMPs that treat, infiltrate, reuse, contain, or otherwise reduce pollutants in stormwater discharges. O. The SWPPP must include the date it was implemented and the date it was last modified. P. The SWPPP must include any stormwater contamination and/or runoff mitigation measures proposed to be part of the final project in any environmental review. [Minn. R. 7090]
29.1	**Special and Impaired Waters SWPPP Requirements**. [Minn. R. 7090]
29.2	The SWPPP must document all stormwater BMPs that are implemented to comply with Part X of this permit when an impaired or special water is identified within one mile of an industrial facility's benchmark monitoring location discharge and where the identified impaired or special water receives discharge from the industrial facility's stormwater monitoring location. [Minn. R. 7090]
29.3	The SWPPP must contain the following components: A. Industrial stormwater volume reduction and/or pollutant concentration reduction BMPs, designed to restrict industrial stormwater discharges to the designated water; and B. A narrative discussion describing how the Permittee will monitor and maintain the BMPs the Permittee uses to ensure the industrial facility will sustain restricted industrial stormwater discharges. [Minn. R. 7050, Minn. R. 7090]
30.1	**Facility Description**. [Minn. R. 7090]
30.2	The SWPPP must include: A. A narrative description of the industrial activities the Permittee conducts at the facility; B. The total size of the facility property in acres; and C. A calculation of the facility acreage that has industrial activity and/or significant materials in contact with stormwater. The calculation excludes acreage that does not discharge industrial stormwater, such as natural and landscaped areas, employee parking lots, and office buildings, etc. [Minn. R. 7090]
31.1	**Facility Map**. [Minn. R. 7090]
31.2	The SWPPP must include a map. The facility map(s) must be a United States Geological Survey map or equivalent and must depict the following: A. Location of the facility in relation to surface waters receiving industrial stormwater discharges from the facility. Include the name of the surface water on the map. If the name is not known, indicate that on the map; B. Location of all impervious surfaces within the facility property boundaries; C. Arrows that indicate directions of stormwater flow; D. Location of all activities and materials identified in the Facility Assessment of Activities and Materials items in sections 33 and 34 below; E. Location of all structural BMPs; F. Location of all impaired waters within one mile of any monitoring location. The Permittee shall include the name of the impaired water and the impairment (e.g. impaired for biota, turbidity, nutrients, etc.); G. Location and name of any designated, special or restricted waters described in the Additional Requirements for Discharges to Special and Impaired Waters section of this permit that is within one mile of a facility's monitoring location; H. Location of all storm sewer inlets; I. Location of all loading dock drains, including those that connect to a storm sewer; J. Location of each benchmark monitoring location. Assign each benchmark monitoring location a unique identifying number (e.g. BML01, BML02, BML03, etc.) that the Permittee uses when submitting monitoring data to the MPCA. Clearly label each benchmark monitoring location from which a discharge flows to, and is within one mile of, an impaired water

	and/or special water; K. Location of each effluent monitoring location, if applicable. Assign each effluent monitoring location a unique identifying number (e.g. EML01, EML02, EML03, etc.) that the Permittee uses when submitting monitoring data to the MPCA. Clearly label each effluent monitoring location to which a discharge flows, and is within one mile of, an impaired water; and L. Location and description of any non-stormwater discharges authorized by this permit. [Minn. R. 7090]
32.1	**Facility Assessment of Activities and Materials**. [Minn. R. 7090]
33.1	**Assessment of Activities**. [Minn. R. 7090]
33.2	The SWPPP must include an assessment and inventory of all activities that can potentially be sources of pollutants to industrial stormwater discharges. Examples of these activities include: A. Fueling; B. Vehicle and equipment maintenance; C. Loading and unloading of dry bulk materials or liquids; D. Liquid storage tanks; E. Outdoor manufacturing and processing; F. Outdoor storage of significant materials; G. Access roads, rail cars, and tracks; H. Waste treatment, storage, or disposal including waste ponds, dumpsters, and solid waste storage or management; I. Dust or particulate-generating processes including dust collection devices and vents; and J. Contamination of rooftops by pollution control devices. The Permittee may have additional examples. [Minn. R. 7090]
34.1	**Assessment of Materials and Associated Pollutants**. [Minn. R. 7090]
34.2	The SWPPP must include documentation of an assessment and inventory of all facility materials that can potentially be a source of pollutants to industrial stormwater discharges from the following: A. Raw materials; B. Intermediate products; C. By-products; D. Final products; and E. Waste products. The assessment must also include pollutant constituents, such as crankcase oil, zinc, sulfuric acid, cleaning solvents, etc. associated with the sources listed above. [Minn. R. 7090]
35.1	**BMP Documentation**. [Minn. R. 7090]
35.2	The Permittee shall document in the SWPPP all BMPs the Permittee uses to comply with each stormwater control measure required in the Stormwater Control Measures section of this permit. The Permittee shall design and implement BMPs to address the potential pollutants associated with the activities and materials that the Permittee identifies in the Facility Assessment of Activities and Materials section above. The documentation must include a list of all structural and non-structural BMPs the Permittee designs and implements at the facility. [Minn. R. 7090]
36.1	**SWPPP Modification Requirements**. [Minn. R. 7090]
36.2	The Permittee shall review the SWPPP at least annually. The Permittee shall modify the SWPPP within 30 days if: A. There is construction or a change in design, operation, or maintenance at the facility that affects stormwater management or compliance with this permit; B. The Permittee identifies a monitoring location that is within one mile of an impaired water, including newly listed impaired waters; C. A routine inspection, compliance evaluation, or visual inspection identifies deficiencies in the SWPPP and/or BMPs; D. Additional stormwater control measures and BMPs are necessary to meet applicable water quality standards or to address exceedances of benchmark values; E. There is an unauthorized discharge from the facility. If the SWPPP modification is because of a release or unauthorized discharge, update the SWPPP to include a description and date of the release, the circumstances leading to the release, actions taken in response to the release, and measures to prevent the recurrence of such releases. Unauthorized releases and discharges are subject to the reporting requirements in the Stormwater Control Measures section of this permit; or

	F. There is a change in personnel responsible for managing the SWPPP, implementing BMPs, conducting monthly visual inspections, or collecting stormwater samples at the facility. [Minn. R. 7090]
37.1	**SWPPP Availability Requirements**. [Minn. R. 7090]
37.2	Permittees shall keep the SWPPP at the industrial facility and make it available to the MPCA within 72 hours of a request for review. [Minn. R. 7090.3040, subp. 2]
38.1	**PART IV. ANNUAL REPORT**. [Minn. R. 7090]
38.2	Permittees shall submit an annual report: Due annually, by the 31st of March. [Minn. R. 7090]
38.3	The Annual Report must cover those portions of the previous calendar year the Permittee had authorization to discharge industrial stormwater. The Annual Report must include, at a minimum, the following information: A. A summary of inspection dates, findings, and any BMP maintenance the Permittee conducted during the course of the reporting year; B. The results of any inspection requirements involving oil and grease, as described in the Sector-Specific Requirements section of this permit, if applicable; C. A confirmation that the SWPPP accurately reflects facility conditions; D. A confirmation that newly exposed significant materials (if any) are identified and that the Permittee modifies the SWPPP to address them; E. A confirmation that the Permittee conducts a review of impaired waters and special waters; F. A confirmation the Permittee modified the SWPPP to address applicable permit requirements of the Stormwater Pollution Prevention Plan and Benchmark Monitoring Requirements sections of this permit, if necessary; G. A confirmation that the Permittee meets the review requirements of US EPA-approved TMDLs that may apply to the facility; H. A description of any SWPPP modification the Permittee makes in accordance with the Stormwater Pollution Prevention Plan section of this permit, including any information supporting the use of a monitoring waiver outlined in the Benchmark Monitoring Requirements Section of this permit; I. A list of all spills and leaks (as pursuant to Minn. Stat. 115.061) occurring at the facility during the reporting year; and J. If applicable, a summary of all facility mobile industrial activities. At a minimum, the summary must include: i. A description including SIC code and/or narrative activity; ii. Locations of the mobile industrial activity including latitude and longitude coordinates; and iii. Length of time of the mobile industrial activity occurrence(s). [Minn. R. 7090]
38.4	The Permittee shall submit the Annual Report through the MPCA eServices online portal. [Minn. R. 7090]
39.1	**PART V. BENCHMARK MONITORING REQUIREMENTS**. [Minn. R. 7090]
39.2	The Permittee shall monitor benchmark parameters specified for the Permittee's industrial sector(s) using the procedures outlined in this section of the Permit. [Minn. R. 7090]
39.3	The Permittee shall monitor each benchmark monitoring location for all benchmark parameters specified for the facility's primary SIC code and/or narrative activity and any co-located industrial activity as outlined in the Sector-Specific Requirements portion of this permit, unless exempted by a benchmark monitoring waiver. Appendix B lists the benchmark monitoring parameters and corresponding values for each sector. [Minn. R. 7090]
39.4	An exceedance of an applicable benchmark value does not constitute a violation. However, when an exceedance of an applicable benchmark value occurs, the Permittee shall perform all necessary corrective action(s) to address stormwater control measures, including the maintenance or implementation of BMPs. Failure to respond to a benchmark value exceedance is a permit violation. [Minn. R. 7090]
40.1	**Monitoring Procedures and Sample Collection Methods**. [Minn. R. 7090]
40.2	If the Permittee identifies multiple but separate industrial stormwater discharges, and each area of discharge is substantially similar in terms of exposure, BMPs, pollutants, and surface water receiving runoff, the Permittee may choose one benchmark monitoring location that is most representative and best allows for obtaining a sample. If the surface water receiving runoff is not substantially similar, the Permittee must designate multiple unique benchmark monitoring location(s). [Minn. R. 7090]
40.3	The Permittee shall ensure that a laboratory certified by the Minnesota Department of Health (MDH) and/or registered with the MPCA (or other MPCA-approved accredited lab) conducts analyses this permit requires. [40 CFR 136.3]
40.4	Laboratory certification is not required for the visual observation of the presence of debris. [40 CFR 136.3]

40.5	Analysis of pH must comply with manufacturer's specifications for equipment calibration and use. pH analysis must occur on-site, within 15 minutes of sample collection. [40 CFR 136.3, Minn. R. 4740.2010, Minn. R. 4740.2050 to 2120, Minn. Stat. 144.97 to 98]
40.6	The Permittee shall maintain written records of all calibrations and maintenance within the SWPPP. [40 CFR 136.3]
40.7	Sample preservation and test procedures for the analysis of pollutants must conform to 40 C.F.R. 136.3(e). [40 CFR 136.3, Minn. R. 7090]
41.1	**Where to Collect a Sample; Number of Samples**. [Minn. R. 7090]
41.2	Permittees shall collect at least one sample per quarter from each benchmark monitoring location and analyze each sample for the sector-specific benchmark parameters. The Permittee shall collect samples from each stormwater benchmark monitoring location the Permittee identifies in the permit application and the SWPPP. The benchmark monitoring location(s) selected by the Permittee shall be in a location that: A. Is after the final down-gradient BMP from the source of industrial activity or significant materials, but prior to discharging from the Permittee's operational control; B. Minimizes or eliminates sampling of stormwater from off-site sources (run-on); and C. Yields a sample that best represents the contribution of pollutants the Permittee is required to monitor for in accordance with the Benchmark Monitoring Requirements section of this permit, and that receives discharge from an area of industrial activities, processes, and significant materials exposed to stormwater. [Minn. R. 7090]
41.3	Sampling intervals correspond to calendar quarters. Permittees shall collect samples for at least four calendar quarters. Sampling requirements begin the first full calendar quarter following the facility's coverage issuance date. For example, if the Permittee obtains coverage on June 29, monitoring starts in the quarter beginning July 1. If the Permittee obtains coverage on April 1, monitoring starts in the quarter beginning July 1. [Minn. R. 7090]
41.4	If the Permittee submits an administrative modification to their permit, benchmark sampling will still be required for the calendar quarter in which the administrative modification was submitted to the MPCA. [Minn. R. 7090]
42.1	**When to Collect a Sample**. [Minn. R. 7090]
42.2	Permittees shall collect samples from a measurable runoff event (rain or snowmelt) at the benchmark monitoring location(s), provided there is a gap of three days between measurable runoff events. To the extent feasible, during a measurable runoff event, Permittees shall collect samples in each of the first 4 calendar quarters after receiving coverage. The Permittee shall attempt to collect a stormwater discharge sample within the first 30 minutes after the discharge reaches the benchmark monitoring location. It is not necessary to collect samples outside the facility's normal operating hours. If unable to collect a sample within 30 minutes the Permittee shall document an explanation as to why they could not collect the sample within 30 minutes on the Stormwater Monitoring Report. [Minn. R. 7090]
43.1	**How to Collect a Sample**. [Minn. R. 7090]
43.2	The Permittee shall take samples either manually by grab method, automated sampling, sheet flow collection, or creating a collection point that concentrates runoff. If a Permittee uses automated sampling, the device must either collect one sample during the first 30 minutes of discharge or must collect samples throughout the discharge period, and then combine them as a composite sample. [Minn. R. 7090]
44.1	**Unable to Collect a Sample**. [Minn. R. 7090]
44.2	Permittees shall submit a Stormwater Monitoring Report to the MPCA for every calendar quarter the Permittee has sampling requirements, even if there is not a measurable runoff sufficient to obtain a sample. In the absence of a measurable runoff event during a quarter due to weather conditions and/or site soil characteristics, the Permittee shall complete the appropriate sections of a Stormwater Monitoring Report, providing an explanation as to why a sample was not able to be collected, and submit the report to the MPCA. [Minn. R. 7090]
44.3	If the Permittee is unable to obtain a minimum of four quarterly samples over four separate quarters, the Permittee shall continue the quarterly monitoring requirements until they obtain four quarterly samples. [Minn. R. 7090]
45.1	**Compare four quarterly samples to benchmark value**. [Minn. R. 7090]
45.2	After collecting and analyzing four separate quarterly samples, one per calendar quarter for each benchmark monitoring location, Permittees shall average the most recent four consecutive values for each benchmark parameter and compare it against the benchmark value. If the Permittee collects more than one sample per calendar quarter then, the results must

	be averaged within the quarter. The Permittee shall compare the average of the quarterly monitoring results with the applicable benchmark value for its applicable sectors and refer to the Benchmark Values Met and/or Benchmark Values Exceeded sections below to determine any necessary further actions. [Minn. R. 7090]
45.3	For averaging purposes, the Permittee shall use a value of zero for any sample result the laboratory reports that is less than the method detection limit. For results the laboratory reports as falling between the method detection level and the quantitation limit (i.e. a confirmed detection, but below the level that can be reliably quantified), the Permittee shall use a value halfway between zero and the quantitation limit. [Minn. R. 7090]
46.1	**Benchmark Values Met**. [Minn. R. 7090]
46.2	A benchmark value is considered met if the calculated averaged results are below (or for pH, is within the range of) the benchmark value(s) listed in Appendix B. The Permittee does not need to collect additional samples for any parameter where the averaged results of the four most recent quarterly samples are below the permit benchmark value, unless a new impairment to a receiving water is listed by the state and meets the conditions in the Benchmark Monitoring for New Impairment Listing To A Receiving Water section. [Minn. R. 7090]
47.1	**Benchmark Monitoring for New Impairment Listing To A Receiving Water**. [Minn. R. 7090]
47.2	If the US EPA approves a new impairment, as authorized in 303(d) of the Clean Water Act, to a receiving waterbody that: A. Receives discharge from the monitoring location; and B. Is within one mile of the monitoring location.: Then, the Permittee shall continue or restart benchmark monitoring for the pollutant(s) of the impairment or its appropriate surrogate(s). The Permittee shall monitor for the benchmark parameter(s) for which the recently listed water is impaired. This only applies if the pollutant(s) of impairment or its appropriate surrogate(s) is among the list of benchmark parameters listed for the Permittee's industrial sector(s). [CWA Sect. 303.(d), Minn. R. 7090]
47.3	Prior to the first full calendar quarter following the US EPA-approved listing of the impaired water, the Permittee shall submit an administrative modification application to restart benchmark monitoring. Then the Permittee shall begin the additional monitoring for the pollutant(s) causing the impairment or its appropriate surrogate(s) listed in the Surrogates: Pollutant of Impairment section. [Minn. R. 7090]
48.1	**Surrogates: Pollutant of Impairment**. [Minn. R. 7090]
48.2	The following are a list of impairments and their surrogates that are used for monitoring purposes: Biota (Fish): Total Suspended Solids (TSS) Biota (Macroinvertebrates): Total Suspended Solids (TSS) Biota (Plant): Total Suspended Solids (TSS) Dissolved Oxygen (DO): *BOD, Carbonaceous 05 Day (20 Deg C) (CBOD5), and/or COD (Chemical Oxygen Demand) Nutrient Eutrophication: Phosphorus, Total (as P) Turbidity: Total Suspended Solids (TSS) Nitrate: Nitrite Plus Nitrate, Total (as N) *In the case of water impaired for Dissolved Oxygen, the Permittee shall monitor for either CBOD5 or COD, or both, dependent on if they are listed within the sector-specific pollutants to be monitored. [Minn. R. 7090]
49.1	**Benchmark Values Exceeded**. [Minn. R. 7090]
49.2	A benchmark value is considered exceeded if the calculated averaged results are at or above (or for pH, is outside the range of) the benchmark value(s) listed in Appendix B. If the benchmark value is exceeded, the Permittee shall continue to collect benchmark sample(s) in the following quarter(s), if possible. After collecting another sample, the Permittee shall calculate the average of the four most recent quarters and compare this new average with the applicable benchmark value(s). The Permittee shall continue quarterly monitoring at the benchmark monitoring location until the average of the four most recent samples is below the applicable benchmark monitoring value. [Minn. R. 7090]
49.3	If a benchmark value is exceeded, the permittee shall complete the following steps: A. Modify the SWPPP and document all corrective actions necessary to meet the applicable benchmark values, including improvements to BMPs; B. Initiate modifications and upgrade the SWPPP and BMPs immediately, but no later than 14 days beyond discovery of a benchmark value exceedance; and C. Install a new or repair an existing control measure to make it operational as soon as possible. If the Permittee is unable

	to complete the installation or repair within 14 calendar days, the Permittee shall: i. Document why it is infeasible within the 14-day timeframe; ii. Identify a schedule for completing the work; iii. Install or repair the BMP as soon as practicable, but no longer than 45 days after discovery; and iv. Include all documentation within or as an attachment to the SWPPP. [Minn. R. 7090]
49.4	If any single sampling result (or the averaged value within a quarter) meets or exceeds the applicable benchmark value by four times or greater, it is considered an exceedance of the benchmark value and the steps required after a benchmark value exceedance are required. [Minn. R. 7090]
50.1	**Reporting Benchmark Monitoring Data**. [Minn. R. 7090]
50.2	Monitoring data must be submitted to the MPCA through the eServices online portal. The Permittee shall record information in the specific areas on the form and in the units specified. [Minn. R. 7001.0150, subp. 2(B), Minn. R. 7001.1090, subp. 1(D)]
50.3	The Permittee shall submit monitoring data to the MPCA no later than the 21st day of the month following the sampling quarter. [Minn. R. 7090]
50.4	If the Permittee discovers their submission of an incomplete or incorrect report, or if the MPCA notifies the Permittee that they submitted an incomplete or incorrect report, the Permittee shall immediately submit an amended report to the MPCA. The amended report must contain the missing or corrected data along with a cover letter explaining the circumstances of the incomplete or incorrect report. [Minn. R. 7001.0150, subp. 3(G)]
51.1	**PART VI. BENCHMARK MONITORING WAIVERS**. [Minn. R. 7090]
51.2	Permittees shall complete benchmark monitoring as required in the Benchmark Monitoring Requirements sections in this permit unless they are approved for a benchmark monitoring waiver. Permittees may submit a benchmark monitoring waiver during the permit application process or coverage modification. [Minn. R. 7090]
51.3	There are three Benchmark Monitoring Waivers Permittees may request depending on their facility circumstances: A. General Benchmark Monitoring Waiver; B. Run-On Demonstration Waiver; or C. Natural Background Pollutant Waiver. These waivers are for benchmark monitoring only, not effluent limits. [Minn. R. 7090]
52.1	**General Benchmark Monitoring Waiver**. [Minn. R. 7090]
52.2	Permittees with either of the following systems at the facility or a portion of the facility may be eligible for a General Benchmark Monitoring Waiver: A. Infiltration system: The Permittee has an infiltration system in accordance with the Benchmark Monitoring Waiver for Industrial Stormwater Infiltration and Ponding section of this permit; or B. Pond system: The Permittee has a pond system in accordance with the Benchmark Monitoring Waiver for Industrial Stormwater Infiltration and Ponding section of this permit. [Minn. R. 7090]
53.1	**Run-On Demonstration Waiver**. [Minn. R. 7090]
53.2	Upon calculating quarterly benchmark averages, if Permittees demonstrate drainage onto the site from upgradient sources (run-on) are the source of any benchmark value exceedance, the Permittee may be eligible for a Run-On Demonstration Waiver. [Minn. R. 7090]
53.3	To qualify for this waiver, the Permittee shall demonstrate that the specific run-on pollutant is causing the parameter exceedance at the benchmark monitoring location. At a minimum, the Permittee shall conduct the following activities to complete the demonstration: A. Sample the run-on prior to co-mingling with other stormwater discharges, and analyze the run-on against the pollutant parameter with exceedances; B. Complete a run-on demonstration narrative that describes the following: i. Nature of the run-on including a description of the adjacent property, land use type, and the activity the Permittee believes to be responsible for the stormwater contamination; ii. The dates and lab results of the samples taken for comparison purposes of the facility benchmark monitoring locations and the sampling points the Permittee selects for run-on sampling; iii. A statement that the Permittee assesses and believes that the run-on flows to and is directly impacting the specific benchmark monitoring location where exceedances are occurring;

	iv. Any efforts the Permittee takes to divert or minimize run-on to the facility; and v. Any other relevant information that supports the Permittee's use of this waiver. C. The Permittee shall document the demonstration in the facility's waiver request and, once approved, in the facility's SWPPP; and D. Address the use of an approved waiver in all subsequent Annual Report submittals to the MPCA. [Minn. R. 7090]
54.1	**Natural Background Pollutant Waiver**. [Minn. R. 7090]
54.2	Upon calculating quarterly benchmark averages, if Permittees demonstrate the exceedance of the benchmark value is attributable to the presence of that pollutant in the natural background, the Permittee may be eligible for a Natural Background Pollutant Waiver. Pollutants from former site operations or run-on are not natural background pollutants. [Minn. R. 7090]
54.3	To qualify for the waiver, Permittees shall complete the following: A. Demonstrate that the average of all samples taken of a specific benchmark parameter of the natural background is significantly contributing to and causing the benchmark value exceedance at the benchmark monitoring location; B. Document in the facility's waiver request and once approved, maintain with the SWPPP the supporting rationale for concluding the benchmark value exceedance is attributable to natural background pollutant levels. The Permittee shall include with the supporting rationale any previously collected data that describes the levels of natural background pollutants in the industrial facility stormwater discharge; and C. Address the use of an approved waiver in all subsequent Annual Report submittals to the MPCA. [Minn. R. 7090]
55.1	**Benchmark Monitoring Waiver for Industrial Infiltration and Ponding**. [Minn. R. 7090]
55.2	This section addresses requirements for the Benchmark Monitoring Waiver for industrial stormwater infiltration systems, and industrial stormwater ponds as defined in the Definitions and Abbreviations section of this permit. Violation of any specific requirements that may affect the operation of the industrial stormwater pond or infiltration system may result in revocation of the monitoring waiver. The MPCA will not grant the Benchmark Monitoring Waiver unless the Permittee complies with all applicable requirements of the permit. Note that the Stormwater Control Measures and the Sector-Specific sections of this permit have specific additional sector or subsector requirements and certain prohibitions as stated in the Stormwater Control Measures section of this permit regarding stormwater infiltration. The Permittee shall comply with the Stormwater Control Measures and the Sector-Specific sections of this permit in order to utilize infiltration or ponding as part of a stormwater treatment system. Monitoring waivers are not applicable to effluent limits. [Minn. R. 7090]
56.1	**Requirements for a Benchmark Monitoring Waiver for Infiltration Systems**. [Minn. R. 7090]
56.2	Unless prohibited from obtaining a Benchmark Monitoring Waiver under the sector or subsector requirements of the Sector-Specific section of this permit, a Permittee may request a Benchmark Monitoring Waiver for infiltration systems that the Permittee operates in accordance with the applicable requirements of the permit. For Permittees with infiltration systems that experience a bypass or overflow of stormwater from storm events that exceed the design capacity of the infiltration system, the Permittee does not have to monitor for benchmark parameters. (Note that effluent limit monitoring is not exempt from monitoring.) To obtain a Benchmark Monitoring Waiver, the Permittee shall submit a waiver request to the MPCA and once approved, comply with the terms and conditions below. [Minn. R. 7090]
57.1	**Design Requirements for a Benchmark Monitoring Waiver for Infiltration Systems**. [Minn. R. 7090]
57.2	The Permittee shall design infiltration systems consistent with accepted engineering practices. A professional engineer or other licensed professional shall approve the designs. The Minnesota Stormwater Manual describes accepted practices. The Permittee can use other applicable technical sources as appropriate. The design must meet the minimum requirements outlined in this section. [Minn. R. 7090]
57.3	The Permittee shall design and operate Infiltration systems to infiltrate at a long-term expected rate of no less than 0.2 inches per hour to no greater than 1.63 inches per hour. See the Minnesota Stormwater Manual for detailed information on soils and long term versus perk test or infiltrometer measurements. [Minn. R. 7090]
57.4	The infiltration system must provide, at minimum, a storage volume that will contain the entire volume of runoff to the infiltration system, up to and including the two-year, 24-hour storm event. [Minn. R. 7090]
57.5	Infiltration devices must infiltrate the design storage volume (which may be equal to or greater than the runoff from the two-year event) within 48 hours at the long-term infiltration rate. The Permittee shall base the calculated design volume of runoff from National Oceanic and Atmospheric Administration Atlas 14, Volume 8 (NOAA Atlas 14, Volume 8) and the runoff characteristics of the watershed to the infiltration system. [Minn. R. 7090]

57.6	Infiltration devices must have suitable soils to provide treatment at the design long-term infiltration rate. The Permittee shall conduct testing to ensure that the infiltration system stormwater storage area has at least three feet of suitable soils between the stormwater storage area and either groundwater, the soil elevation leaving evidence of seasonally saturated soils, or fractured bedrock, whichever is least. The Permittee shall test the soil pursuant to the recommendations of the Minnesota Stormwater Manual or equivalent technical sources. [Minn. R. 7090]
58.1	**Operation and Maintenance**. [Minn. R. 7090]
58.2	The Permittee shall maintain and operate the infiltration system to meet the design criteria. In addition, the Permittee shall design, maintain, and modify the outlets, overflows or bypasses to expedite maintenance including periodic cleaning and repair. For example, pre-settling of solids, removal of floatable material, and other maintenance actions, which allow the Permittee to provide effective long-term operation of the infiltration system. [Minn. R. 7090]
58.3	The Permittee shall visually inspect all newly constructed or up-graded infiltration systems after all precipitation events for 30 days after initiation of operation, and thereafter in accordance with inspection requirements outlined in the Stormwater Pollution Prevention Plan - Facility Inspection Requirements section of the permit or, if applicable, the Sector-Specific Requirements section of the permit, to ensure that infiltration is occurring at the appropriate rate and the device is operating correctly. [Minn. R. 7090]
58.4	The Permittee shall provide appropriate access, equipment, and training for staff for operation and maintenance of the infiltration systems. [Minn. R. 7090]
58.5	Permit violations regarding the design, operation, and maintenance of an infiltration system, may be grounds for the MPCA to revoke the Benchmark Monitoring Waiver. [Minn. R. 7090]
59.1	**Documentation**. [Minn. R. 7090]
59.2	The Permittee shall keep the design basis for meeting the criteria for a Benchmark Monitoring Waiver under this part with the SWPPP. The Permittee shall keep all design assumptions, operational and maintenance methods, tests, calculations and monitoring with the SWPPP. The Permittee may summarize portions of the SWPPP that are essential to operations with specific references. The Permittee shall make design and reference documents available within 72 hours of request. [Minn. R. 7090]
60.1	**Requirements for a Benchmark Monitoring Waiver for Industrial Stormwater Ponds**. [Minn. R. 7090]
60.2	Unless specifically prohibited from obtaining a Benchmark Monitoring Waiver under the sector or subsector requirements of the Sector-Specific Requirements section of this permit, a Benchmark Monitoring Waiver is available for industrial stormwater ponds that the Permittee operates in accordance with the applicable requirements of the permit. For industrial stormwater ponds meeting the requirements of a Benchmark Monitoring Waiver, stormwater bypasses or overflow from storm events exceeding the Benchmark Monitoring Waiver design capacity (specified in this Appendix) are exempt from permit monitoring requirements. Note that effluent limit monitoring is not exempt from monitoring, under this part. To obtain a Benchmark Monitoring Waiver, the Permittee shall submit a waiver request to the MPCA and comply with the following terms and conditions. [Minn. R. 7090]
61.1	**Design Requirements for an Industrial Stormwater Pond Benchmark Monitoring Waiver**. [Minn. R. 7090]
61.2	The Permittee shall design industrial stormwater ponds qualifying for a Benchmark Monitoring Waiver consistent with accepted engineering practices and a professional engineer or other licensed professional approves. The design must meet the minimum requirements outlined in this section. The applicable portions of the Minnesota Stormwater Manual describe generally accepted practices. The Permittee can use other applicable technical sources as appropriate. [Minn. R. 7090]
61.3	Permittees shall design and operate the industrial stormwater pond to eliminate scour and re-suspending of sediment at high flows, so Permittees expect to meet that benchmark values up to the 10-year, 24-hour storm event based on NOAA Atlas 14, Volume 8. The Permittee shall design the industrial stormwater pond to have a permanent dead storage volume, which is the volume below the normal outlet, that is equal to or exceeds the entire runoff volume to the pond which would result from the five-year, 24-hour rainfall event based on NOAA Atlas 14, Volume 8. [Minn. R. 7090]
61.4	The Permittee shall design the industrial stormwater pond permanent storage (dead storage below the outlet) volume to eliminate scour and re-suspension of settled solids for the expected flow velocities. The Permittee shall adjust the maximum permanent storage (or dead storage) depth for the site conditions to provide enough sediment storage, and to prevent scour. The Permittee shall limit the depth to prevent anaerobic conditions from developing in the pool. The optimum depth in the permanent pool usually varies between 3 feet to 10 feet deep, depending on the site-specific

	conditions of flow and the nature of the pollutants. [Minn. R. 7090]
61.5	The Permittee shall incorporate skimmers, screens, or equivalent collection devices into the outlets so that the industrial stormwater pond will not discharge floatable materials. The Permittee shall inspect and maintain such devices to prevent clogging or discharge of collected material. The Permittee shall dispose collected materials properly. [Minn. R. 7090]
62.1	**Operation and Maintenance**. [Minn. R. 7090]
62.2	The Permittee shall maintain and operate the industrial stormwater pond to meet design criteria. In addition, the Permittee shall design, maintain and modify outlets, overflows or bypasses to expedite maintenance including periodic cleaning and repair, as needed. For example, pre-settling of solids, removal of floatable material, or other maintenance actions which allow the Permittee to provide effective long-term operation of the industrial stormwater pond. [Minn. R. 7090]
62.3	The Permittee shall visually inspect newly constructed or up-graded industrial stormwater ponds after all precipitation events for 30 days after initiation of operation, and thereafter in accordance with inspection requirements outlined in the Stormwater Pollution Prevention Plan - Facility Inspection Requirements section of the permit or, if applicable, the Sector-Specific Requirements section of the permit, to ensure that the industrial stormwater pond is operating correctly. [Minn. R. 7090]
62.4	The Permittee shall provide access, equipment, and training for appropriate staff for operation and maintenance of the industrial stormwater pond. [Minn. R. 7090]
62.5	The Permittee shall operate and maintain all industrial stormwater ponds as required by this permit, and any restrictions in the sector or subsector specific requirements of the Sector-Specific section of this permit. Permit violations regarding the design, operation, and maintenance of an industrial stormwater pond, may be grounds for the MPCA to revoke the Benchmark Monitoring Waiver. [Minn. R. 7090]
63.1	**Documentation**. [Minn. R. 7090]
63.2	The Permittee shall keep all design assumptions, operational and maintenance methods, tests, calculations and monitoring with the SWPPP. The Permittee may summarize portions of the SWPPP that are essential to operations with specific references. The Permittee shall make design and reference documents available within 72 hours of request. [Minn. R. 7090]
64.1	**PART VII. EFFLUENT LIMIT REQUIREMENTS**. [Minn. R. 7090]
64.2	If applicable, Permittees shall comply with the effluent limitations required in the Sector-Specific Requirements section of this permit. The Permittee shall identify and monitor all effluent monitoring locations at the facility where industrial activity with an effluent limit occurs. [Minn. R. 7090]
64.3	Appendix B lists the parameters with corresponding effluent limits for specific sectors. This Effluent Limit Requirements section of the permit is not applicable to Permittees with no effluent limit requirements listed for their corresponding sector(s). [Minn. R. 7090]
65.1	**Effluent Monitoring Procedures and Sample Collection Methods**. [Minn. R. 7090]
65.2	The effluent monitoring location(s) selected by the Permittee shall be in a location that: A. Is after the final down-gradient BMP from the specific industrial activity that has a numeric effluent limit, but prior to where the discharge co-mingles with stormwater from other sources; and B. Yields a sample that represents the contribution of the pollutants the Permittee is required to monitor for in accordance with the Sector-Specific Requirements section of this permit, and that receives discharge from an area of industrial activities, processes, and significant materials exposed to stormwater that has a numeric effluent limit. [Minn. R. 7090]
65.3	Permittees shall collect two samples annually, at least 30 days apart, from each effluent monitoring location and analyze the sample for each required effluent limit parameter. Permittees shall collect the sample(s) each calendar year the Permittee has permit coverage. [Minn. R. 7090]
65.4	Permittees shall collect samples during any measurable runoff event at each effluent monitoring location. Collect the sample(s) within the first 30 minutes of the measurable runoff event. If it is not possible to collect the sample(s) within the first 30 minutes, collect the sample(s) as soon as practicable and document on the Monitoring Report Form that it was not possible to collect the sample(s) within the first 30 minutes. [Minn. R. 7090]
65.5	Permittees shall take samples either manually by grab method, or by automated sampling. If the Permittee uses automated sampling, the device must either collect one sample during the first 30 minutes of discharge or must collect a series of samples throughout the discharge period and combine them as a composite sample. [Minn. R. 7090]

65.6	If the Permittee determines that an effluent monitoring location and a benchmark monitoring location are at the same location, and the effluent sampling of a pollutant parameter coincides with the sampling of a benchmark pollutant parameter, the Permittee may collect one sample and analyze for both purposes. [Minn. R. 7090]
66.1	**Effluent Limit Exceedances**. [Minn. R. 7090]
66.2	A sampling result that exceeds an effluent limit is a permit violation. The Permittee shall immediately make every effort to verify the violation by collecting additional samples. The Permittee shall investigate the cause of the violation and take action to prevent future violations. Immediately report violations that pose a threat to human health or a drinking water supply, or represent a significant risk to the environment to the Minnesota Department of Public Safety Duty Officer at 800-422-0798 (toll free) or 651-649-5451 (metro area). In addition, the Permittee may also contact the MPCA during business hours. [Minn. R. 7090]
66.3	If any monitoring value exceeds a numeric effluent limit contained in this permit, the Permittee shall indicate the violation on its Industrial Stormwater Monitoring Report and conduct follow-up monitoring within 30 calendar days (or during the next qualifying runoff event, should none occur within 30 days) of implementing the corrective actions required below. [Minn. R. 7090]
66.4	If an effluent limit is at or is exceeded, Permittees shall complete the following steps: A. Modify the SWPPP and document all corrective actions necessary to meet the applicable effluent limit, including improvements to BMPs; B. Initiate modifications and upgrade the SWPPP and BMPs immediately, but no later than 14 days beyond discovery of an effluent limit violation; and C. Install a new or repair an existing control measure to make it operational as soon as possible. If the Permittee is unable to complete the installation or repair within 14 calendar days, the Permittee shall: i. Document why it is infeasible within the 14-day timeframe. ii. Identify a schedule for completing the work, and document as soon as practicable after the 14-day timeframe but no longer than 45 days after discovery. iii. Include all documentation within or as an attachment to the SWPPP. [Minn. R. 7090]
66.5	Additional effluent monitoring must be conducted monthly, at a minimum, until the discharge is in compliance with the effluent limit or the MPCA waives the requirement for additional monitoring. The additional monitoring must be reported to the MPCA. [Minn. R. 7090]
67.1	**Effluent Monitoring Data Reporting**. [Minn. R. 7090]
67.2	The Permittee shall submit the data through the MPCA eServices online portal. Record the information in the specific areas on the form and in the specific units. If the Permittee cannot acquire a sample during the sampling period due to weather conditions and/or site soil characteristics, the Permittee shall check the "No Flow" box and note the conditions on the form. [Minn. R. 7001.0150, subp. 2(B), Minn. R. 7001.1090, subp. 1(D)]
67.3	The Permittee shall submit the monitoring data for each required effluent monitoring location even if a discharge did not occur during the sampling period. [Minn. R. 7001.0150, subp. 2(B), Minn. R. 7001.0150, subp. 3(H)]
67.4	The Permittee shall submit the annual monitoring report no later than 21 days after the end of each calendar year following issuance of ISW permit coverage. [Minn. R. 7090]
67.5	If the Permittee discovers their submission of an incomplete or incorrect report, or if the MPCA notifies the Permittee of an incomplete or incorrect report, the Permittee shall immediately submit an amended form to the MPCA. The amended report must contain the missing or correct data along with a cover letter explaining the circumstances of the incomplete or incorrect report. [Minn. R. 7001.0150, subp. 3(G)]
68.1	**PART VIII. SECTOR-SPECIFIC REQUIREMENTS**. [Minn. R. 7090]
68.2	The Permittee shall comply with these sector-specific requirements for any primary SIC code and/or narrative activity and co-located industrial activities as defined in the eligibility requirements of this permit. The sector-specific requirements apply to those areas of the Permittee's facility where those sector- specific activities occur. [Minn. R. 7090]
69.1	**Sector A. Timber Products**. [Minn. R. 7090]
70.1	**Authorized Stormwater Discharges**. [Minn. R. 7090]
70.2	These Sector A requirements apply to industrial stormwater discharges at timber product facilities, with the industrial activity codes listed in Appendix A. [Minn. R. 7090]
71.1	**Limitations on Authorization**. [Minn. R. 7090]

71.2	Stormwater discharges from areas where there may be contact with the chemical formulations sprayed to provide surface protection are not authorized by this permit. These discharges require a separate NPDES/SDS permit. [Minn. R. 7090]
72.1	**Stormwater Controls**. [Minn. R. 7090]
73.1	**Inspections**. [Minn. R. 7090]
73.2	If the Permittee performs wood surface protection and preservation activities, the Permittee shall inspect all processing areas that are subject to compliance with 40 C.F.R. pt. 264 and 265, subp. W, to assess the effectiveness of BMPs the Permittee uses to eliminate all discharges of chemical preservatives. Any discharge from these areas is process wastewater and is not stormwater and requires a separate NPDES/SDS permit. [Minn. R. 7090]
73.3	The Permittee shall conduct inspections of treated wood storage areas to assess the effectiveness of BMPs used to minimize or eliminate the discharge of stormwater that comes into contact with wood preservation chemicals. [Minn. R. 7090]
74.1	**Other Industry Specific Control Measures**. [Minn. R. 7090]
74.2	For indoor and/or outdoor storage of significant materials (including but not limited to: arsenic, chromium, zinc, copper, and phenolic solution storage tanks and structures), the Permittee shall provide complete secondary containment. Also, the Permittee shall drain stormwater accumulating in outdoor storage tanks and structures only after an inspection demonstrates that there are no occurrences of contact of stormwater with significant materials. [Minn. R. 7090]
75.1	**SWPPP Requirements**. [Minn. R. 7090]
75.2	In addition to the requirements in the Stormwater Pollution Prevention Plan section of this permit, the Permittee shall also comply with the following: A. **Inventory of Exposed Materials**. If the Permittee uses chlorophenolic, Pentachlorophenol, creosote, or chromium-copper-arsenic formulations for wood surface protection or preserving, identify the following and document within the SWPPP: i. Areas where contaminated soils from treatment equipment, and stored materials still remain; and ii. The management practices the Permittee utilizes to prevent these materials coming into contact with stormwater runoff. B. **Description of Stormwater Controls**. The Permittee shall describe the BMPs they implement to address the following sources for pollution potential: i. Log, lumber and wood product storage areas; ii. Residue storage areas; iii. Chemical storage area; and iv. If the Permittee performs wood surface protection and preservation activities, address the specific BMPs for these activities. [Minn. R. 7090]
76.1	**Monitoring and Reporting Requirements**. [Minn. R. 7090]
76.2	In accordance with the Benchmark and Effluent Monitoring Requirements sections of this permit, the Permittee shall monitor the applicable parameters in Table A-1 in Appendix B. [Minn. R. 7090]
77.1	**Use of Infiltration Systems and/or Industrial Stormwater Ponds for Stormwater Treatment and Disposal**. [Minn. R. 7090]
78.1	**Industrial Stormwater Ponds**. [Minn. R. 7090]
78.2	Sector A facilities, except those operating under SIC code 2491, may use industrial stormwater ponds for stormwater management without additional restrictions. [Minn. R. 7090]
78.3	The Permittee of a Sector A industrial facility operating under an SIC code of 2491 (wood preserving) has authorization to use industrial stormwater ponds for stormwater management. Industrial stormwater ponds constructed after April 5, 2010, must meet the following design criteria: A. Line the industrial stormwater pond with a synthetic liner that is chemically compatible with materials expected to enter the pond. Design the pond to restrict infiltration to less than 500 gallons per acre per day. The pond must be Ultraviolet (UV) stable; and B. Design the industrial stormwater pond in accordance with accepted engineering practices identified in the latest version of the MPCAs "Recommended Pond Design Criteria. Permittees required to comply with this part do not have authorization to utilize the benchmark monitoring waiver described in the Benchmark Monitoring Waiver for Industrial Stormwater Infiltration and Ponding section of the permit.

	[Minn. R. 7090]
78.4	Sector A facilities operating under SIC code 2491 are not eligible for the General Benchmark Monitoring Waiver as described in the Benchmark Monitoring Waivers section of the permit. [Minn. R. 7090]
79.1	**Infiltration Systems**. [Minn. R. 7090]
79.2	The Permittee of a Sector A industrial facility operating under an SIC code of 2491 (wood preserving) has authorization to use a designed infiltration system for stormwater management, implemented prior to April 5, 2010, provided the Permittee complies with the following requirements: A. The Permittee shall conduct benchmark monitoring in accordance with the terms and conditions of the Benchmark Monitoring Requirements section of this permit for all industrial stormwater prior to infiltration; and B. If the Permittee has a designed infiltration system operating prior to April 5, 2010, the Permittee can continue using that device. However, on or after April 5, 2010, the Permittee shall not construct new infiltration systems, expand infiltration activities or practices that result in infiltration, or expand volume of infiltration. [Minn. R. 7090]
79.3	Sector A facilities operating under SIC code 2491 that use a designed infiltration system to manage industrial stormwater are not eligible for the General Benchmark Monitoring Waiver as described in the Benchmark Monitoring Waivers section of the permit. [Minn. R. 7090]
80.1	**Sector B. Paper and Allied Products Manufacturing**. [Minn. R. 7090]
81.1	**Authorized Stormwater Discharges**. [Minn. R. 7090]
81.2	These Sector B requirements apply to stormwater discharges occurring from the industrial activity from paper and allied products manufacturing facilities, including stormwater runoff from wood storage areas and other raw and product material storage areas, with the industrial activity codes in Appendix A. [Minn. R. 7090]
82.1	**Monitoring and Reporting Requirements**. [Minn. R. 7090]
82.2	In accordance with the Benchmark Monitoring Requirements section of this permit, the Permittee shall monitor the applicable parameters in Table B-1 in Appendix B. [Minn. R. 7090]
83.1	**Use of Infiltration Systems and/or Industrial Stormwater Ponds for Stormwater Treatment and Disposal**. [Minn. R. 7090]
83.2	Sector B industrial facilities may use designed infiltration systems or industrial stormwater ponds for stormwater management. [Minn. R. 7090]
84.1	**Sector C. Chemical and Allied Products Manufacturing**. [Minn. R. 7090]
85.1	**Authorized Stormwater Discharges**. [Minn. R. 7090]
85.2	These Sector C requirements apply to stormwater discharges occurring from the industrial activity from chemical and allied products manufacturing facilities, with the industrial activity codes in Appendix A. [Minn. R. 7090]
86.1	**Limitations on Authorization**. [Minn. R. 7090]
86.2	The following discharges are not authorized under this permit: A. Non-stormwater discharges containing inks, paints, other hazardous or non-hazardous substances, etc. resulting from an on-site spill, including materials collected in drip pans; B. Wash water from material handling and processing areas; C. Wash water from drum, tank, or container rinsing and cleaning; and D. Discharges of runoff from coal yards and coal piles. The discharge of any coal yard and coal pile runoff is a wastewater and will require a separate NPDES/SDS permit. [Minn. R. 7090]
87.1	**Stormwater Controls**. [Minn. R. 7090]
88.1	**Good Housekeeping**. [Minn. R. 7090]
88.2	Wet cake, modified wet cake, and dried distillers' grains (DDGs) shall have stormwater control measures that prevent runoff from these areas. Measures shall be in place to prevent these materials from being released by wind, spillage, or vehicle tracking to areas where they may come into contact with stormwater. [Minn. R. 7090]
88.3	Organic materials, product, by-product, spilled wastes, or other significant materials that are tracked or spilled on site that could potentially be subject to stormwater contact, shall be cleaned up as soon as practicable and disposed of according to all applicable regulations or permit requirements. [Minn. R. 7090]
88.4	The Permittee shall remove materials that are tracked off site onto the road surface and return it to the facility upon discovery so that the materials may be properly handled. [Minn. R. 7090]

88.5	Use of detergents, emulsifiers, or dispersants to clean up spilled product is prohibited unless necessary to comply with state or federal safety regulations (i.e., requirement for non-slippery work surface); except where the cleanup practice does not result in discharges and does not leave residues exposed to future storm events. In all cases, initial cleanup shall be done by physical removal and other necessary actions as described in the Permittee's spill prevention and response procedure. [Minn. R. 7090]
89.1	**Inspections**. [Minn. R. 7090]
89.2	The facility milling areas and related BMPs shall be inspected at least weekly. Inspections shall ensure that the installed BMPs are working effectively and spilled organic product is cleaned up daily. [Minn. R. 7090]
89.3	In addition to the inspection requirements outlined in 89.2 and in the Stormwater Control Measures chapter of this permit, the Permittee shall ensure that a total of two monthly inspections occur during runoff events, with at least one inspection occurring during a snowmelt runoff event if possible. Each inspection must include a visual assessment of the runoff to identify any visible sheens or films that indicate the presence of oil or grease in the discharge. If sheens are present in stormwater discharges, implement corrective actions to prevent sheen and document those corrective actions in the SWPPP. [Minn. R. 7090]
90.1	**SWPPP Requirements**. [Minn. R. 7090]
90.2	In addition to the requirements in the Stormwater Pollution Prevention Plan section of this permit, the Permittee shall also comply with the following: A. **Facility Map**. The Permittee shall identify where any of the following come into contact with stormwater: i. Access roads, rail cars, and tracks; ii. Areas where bulk substance transfers occur; and iii. Operating machinery. B. **Potential Pollutant Sources**. The Permittee shall describe the following sources that have potential pollutants associated with them: i. Outdoor storage of salt, pallets, coal, drums and containers; ii. Access roads, rail cars, and tracks; iii. Areas where bulk substance transfers occur; and iv. Areas where machinery operates. [Minn. R. 7090]
91.1	**Monitoring and Reporting Requirements**. [Minn. R. 7090]
91.2	In accordance with the Benchmark and Effluent Monitoring Requirements sections of this permit, the Permittee shall monitor the applicable parameters in Table C-1 in Appendix B. [Minn. R. 7090]
92.1	**Use of Infiltration Systems and/or Industrial Stormwater Ponds for Stormwater Treatment and Disposal**. [Minn. R. 7090]
92.2	Sector C industrial facilities have authorization to use designed infiltration systems or industrial stormwater ponds for stormwater management. [Minn. R. 7090]
93.1	**Sector D. Asphalt Paving and Roofing Materials and Lubricant Manufacturing**. [Minn. R. 7090]
94.1	**Authorized Stormwater Discharges**. [Minn. R. 7090]
94.2	These Sector D requirements apply to stormwater discharges occurring from the industrial activity from asphalt paving and roofing materials and lubricant manufacturing facilities, with the industrial activity codes in Appendix A. [Minn. R. 7090]
95.1	**Limitations on Authorization**. [Minn. R. 7090]
95.2	The following discharges are not authorized under this permit: A. Discharges from petroleum refining facilities, including those that manufacture asphalt or asphalt products that are classified as SIC Code 2911; B. Discharges from oil recycling facilities; and C. Discharges associated with fats and oils rendering. [Minn. R. 7090]
96.1	**Stormwater Controls**. [Minn. R. 7090]
97.1	**Inspections**. [Minn. R. 7090]
97.2	The Permittee shall inspect the following areas: material storage and handling areas; liquid storage tanks, hoppers, and silos; vehicle and equipment maintenance, cleaning, and fueling areas; and material handling vehicles, equipment, and processing areas. The Permittee shall take appropriate action in response to the inspection by using follow-up procedures.

	Document in the SWPPP the inspections and follow up actions. [Minn. R. 7090]
97.3	In addition to the inspection requirements outlined in the Stormwater Control Measures section of this permit, the Permittee shall ensure that a total of two monthly inspections occur during runoff events, with at least one inspection occurring during a snowmelt runoff event if possible. Each inspection must include a visual assessment of the runoff to identify any visible sheens or films that indicate the presence of oil or grease in the discharge. If sheens are present in stormwater discharges, implement corrective actions to prevent sheen and document those corrective actions in the SWPPP. [Minn. R. 7090]
98.1	**Monitoring and Reporting Requirements**. [Minn. R. 7090]
98.2	In accordance with the Benchmark and Effluent Monitoring Requirements sections of this permit, the Permittee shall monitor the applicable parameters in Table D-1 in Appendix B. [Minn. R. 7090]
99.1	**Use of Infiltration Systems and/or Industrial Stormwater Ponds for Stormwater Treatment and Disposal**. [Minn. R. 7090]
99.2	Sector D industrial facilities may use designed infiltration systems or industrial stormwater ponds for stormwater management. [Minn. R. 7090]
100.1	**Sector E. Glass, Clay, Cement, Concrete, and Gypsum Products**. [Minn. R. 7090]
101.1	**Authorized Stormwater Discharges**. [Minn. R. 7090]
101.2	These Sector E requirements apply to stormwater discharges occurring from the industrial activity from glass, clay, cement, concrete, and gypsum products facilities, with the industrial activity codes in Appendix A. [Minn. R. 7090]
102.1	**Stormwater Controls**. [Minn. R. 7090]
103.1	**Good Housekeeping**. [Minn. R. 7090]
103.2	The Permittee shall prevent or minimize the discharge of spilled cement, aggregate (including sand or gravel), kiln dust, fly ash, or settled dust from paved portions of the facility with exposure to stormwater. The Permittee shall determine the frequency of sweeping or equivalent by the amount of industrial activity occurring in the area and the frequency of exposure to stormwater, but the Permittee shall perform this action least once per week if the Permittee is handling or processing cement, aggregate, kiln dust, fly ash, or settled dust. [Minn. R. 7090]
104.1	**Inspections**. [Minn. R. 7090]
104.2	The Permittee shall include dust collection and containment systems in the facility inspections. [Minn. R. 7090]
105.1	**Preventive Maintenance**. [Minn. R. 7090]
105.2	For facilities producing ready-mix concrete, concrete block, brick, or similar products, the Permittee shall include measures in the SWPPP to ensure that process wastewater resulting from washing trucks, mixers, transport buckets, forms, or other equipment are discharged in accordance with a separate applicable NPDES/SDS permit. [Minn. R. 7090]
106.1	**SWPPP Requirements**. [Minn. R. 7090]
106.2	In addition to the requirements in the Stormwater Pollution Prevention Plan section of this permit, the Permittee shall also comply with the following: A. **Facility Map**. The Permittee shall identify the following locations: i. Bag house or other dust control device; ii. Recycle/sedimentation pond, clarifier, or any other device the Permittee uses for the treatment of process wastewater; and iii. The areas that drain to the treatment device. [Minn. R. 7090]
107.1	**Monitoring and Reporting Requirements**. [Minn. R. 7090]
107.2	In accordance with the Benchmark and Effluent Monitoring Requirements sections of this permit, the Permittee shall monitor the applicable parameters in Table E-1 in Appendix B. [Minn. R. 7090]
108.1	**Use of Infiltration Systems and/or Industrial Stormwater Ponds for Stormwater Treatment and Disposal**. [Minn. R. 7090]
108.2	Sector E industrial facilities may use designed infiltration systems or industrial stormwater ponds for stormwater management. [Minn. R. 7090]
109.1	**Sector F. Primary Metals**. [Minn. R. 7090]
110.1	**Authorized Stormwater Discharges**. [Minn. R. 7090]
110.2	These Sector F requirements apply to stormwater discharges occurring from the industrial activity from primary metals, including products and manufacturing facilities, with the industrial activity codes in Appendix A. [Minn. R. 7090]

111.1	**Stormwater Controls**. [Minn. R. 7090]
112.1	**Good Housekeeping**. [Minn. R. 7090]
112.2	The Permittee shall include a cleaning and maintenance program for all impervious areas of the facility where particulate matter, dust, or debris may accumulate, especially areas where material loading and unloading, storage, handling, and processing occur. The Permittee shall also implement a cleaning program which includes regular sweeping for paved areas where vehicle traffic or material storage occur but where vegetative or other stabilization methods are not practicable. For un-stabilized areas where sweeping is not practicable, the Permittee shall choose alternative stormwater management devices that effectively trap or remove sediment. [Minn. R. 7090]
113.1	**Inspections**. [Minn. R. 7090]
113.2	The Permittee shall conduct inspections addressing air pollution control equipment (e.g. baghouses, electrostatic precipitators, scrubbers, and cyclones) for any signs of degradation (e.g. leaks, corrosion, or improper operation) that could limit efficiency and lead to excessive emissions. The Permittee shall monitor airflow at inlets and outlets (or use equivalent measures) to check for leaks (e.g. particulate deposition) or blockage in ducts. The Permittee shall inspect all process and material handling equipment (e.g. conveyors, cranes, and vehicles) for leaks, drips, or the potential loss of material. [Minn. R. 7090]
113.3	In addition to the inspection requirements outlined in the Stormwater Control Measures section of this permit, the Permittee shall ensure that a total of two monthly inspections occur during runoff events, with at least one inspection occurring during a snowmelt runoff event if possible. Each inspection must include a visual assessment of the runoff to identify any visible sheens or films that indicate the presence of oil or grease in the discharge. If sheens are present in stormwater discharges, implement corrective actions to prevent sheen and document those corrective actions in the SWPPP. [Minn. R. 7090]
114.1	**SWPPP Requirements**. [Minn. R. 7090]
114.2	In addition to the requirements in the Stormwater Pollution Prevention Plan section of this permit, the Permittee shall also comply with the following: A. **Facility Map**. The Permittee shall identify where the following activities may come into contact with stormwater: i. Storage or disposal of wastes such as spent solvents and baths, sand, slag and dross; ii. Pollution control equipment (e.g. baghouses); and iii. Coal, coke, scrap, sand, fluxes, refractories, or metal in any form. In addition, indicate where an accumulation of significant amounts of particulate matter could occur from such sources as furnace or oven emissions and losses from coal and coke handling operations. B. **Inventory of Exposed Material**. The Permittee shall include in the inventory of materials, areas where deposition of particulate matter from process air emissions or losses during material handling activities are possible. [Minn. R. 7090]
115.1	**Monitoring and Reporting Requirements**. [Minn. R. 7090]
115.2	In accordance with the Benchmark Monitoring Requirements section of this permit the Permittee shall monitor the applicable parameters in Table F-1 in Appendix B. [Minn. R. 7090]
116.1	**Use of Infiltration Systems and/or Industrial Stormwater Ponds for Stormwater Treatment and Disposal**. [Minn. R. 7090]
116.2	Sector F industrial facilities may use designed infiltration systems or industrial stormwater ponds for stormwater management. [Minn. R. 7090]
117.1	**Sector G. Metal Mining (Ore Mining and Dressing)**. [Minn. R. 7090]
118.1	**Authorized Stormwater Discharges**. [Minn. R. 7090]
118.2	These Sector G requirements apply to stormwater discharges associated with the industrial activity from metal mining facilities, with the industrial activity codes in Appendix A, including: A. Mines abandoned on public lands on or after August 25, 1980; B. Discharges from inactive facilities; and C. Mining sites undergoing reclamation. Permittees shall obtain permit coverage for metal mining facilities that discharge stormwater contaminated by, or that has come in contact with any overburden, raw material, intermediate product, finished product, byproduct, or waste product located on the site of the operation. [Minn. R. 7090]
118.3	Discharges of stormwater runoff from the following areas are authorized for active facilities, temporarily inactive facilities,

	and metallic mining sites undergoing reclamation: A. Discharges from waste rock and overburden piles if the composition is entirely of stormwater and the discharge does not combine with mine drainage; B. Topsoil piles; C. Off-site haul and access roads; D. On-site haul and access roads constructed of waste rock, overburden, or spent ore if discharge composition is entirely stormwater and does not combine with mine drainage; E. On-site haul and access roads not constructed of waste rock, overburden, or spent ore except if the Permittee uses mine drainage for dust control; F. Runoff from tailings dams or dikes not constructed of waste rock or tailings, if composed entirely of stormwater and no process fluids are present; G. Runoff from tailings dams or dikes when constructed of waste rock or tailings if composed entirely of stormwater, no process fluids are present, and if the discharge does not combine with mine drainage; H. Concentration building if composed only of stormwater and there is no contact with material piles; I. Mill site and pellet plant if composed only of stormwater and there is no contact with material piles; J. Office or administrative building and housing if mixed with stormwater from industrial area; K. Chemical storage area; L. Docking facility if no excessive contact with waste product that would otherwise constitute mine drainage; M. Explosive storage; N. Fuel storage areas (oil tanks, coal piles); O. Vehicle and equipment maintenance area and building; P. Power plant; Q. Truck wash areas if no excessive contact with waste product that would otherwise constitute mine drainage; R. Unreclaimed or disturbed areas outside of active mining area; S. Partially or inadequately reclaimed areas or areas not released from reclamation requirements; and T. Parking areas where there is parking of vehicles/equipment other than an employee or visitor type-parking area. [Minn. R. 7090]
119.1	**Limitations on Authorization**. [Minn. R. 7090]
120.1	**Discharges not authorized or required by this permit**. [Minn. R. 7090]
120.2	A. Discharges from active metal mining facilities that are subject to effluent limitation guidelines for the Ore Mining and Dressing Point Source Category (40 C.F.R. pt. 440); B. Discharges that come in contact with overburden or waste rock are subject to 40 C.F.R. pt. 440, and are therefore not authorized under this permit, provided that the discharges drain to a point source (either naturally or as a result of intentional diversion) and they combine with "mine drainage" that is otherwise regulated under the Part 440 regulations; and C. Discharges from overburden or waste rock can be covered under this permit if they are composed entirely of stormwater, do not combine with sources of mine drainage that are subject to 40 C.F.R. pt. 440, and meet other eligibility criteria contained in the Authorization section of this permit. [Minn. R. 7090]
120.3	The following discharges do not need an industrial stormwater permit as long as the discharge occurs prior to ore extraction, and there is not coverage by an active mining permit issued by the applicable State or Federal agency: A. Discharges from exploration and land disturbance activities conducted to determine the viability of ore extraction; B. Discharges from the construction of infrastructure prior to ore extraction; C. Discharges from the construction of site access roads; and D. Discharges from the removal of overburden and waste rock. Discharges from these areas which disturb greater than one acre must have coverage by the General Stormwater Permit for Construction Activity. [Minn. R. 7090]
120.4	Acid drainage as well as contaminated seeps and springs discharging from waste rock dumps that do not directly result from precipitation events, are not authorized by this permit. See also the standard Limitations on Authorization in the Authorization section of this permit. [Minn. R. 7090]
120.5	Closed or abandoned mine sites where disturbances associated with extraction, beneficiation, or processing of mined materials took place prior to August 25, 1980, and where extraction, beneficiation or processing activities have not taken

	place after August 25, 1980, are not considered either active or inactive mining facilities and do not require an industrial stormwater permit. [Minn. R. 7090]
120.6	Sites where mining claims are being maintained prior to disturbances associated with extraction, beneficiation, or processing of mined materials and sites where minimal activities are undertaken for the sole purpose of maintaining a mining claim are not considered either active or inactive mining facilities and do not require an industrial stormwater permit. [Minn. R. 7090]
121.1	**Sector-Specific Definitions**. [Minn. R. 7090]
121.2	The following definitions do not supersede the definitions of active and inactive mining facilities established by 40 C.F.R. 122.26(b)(14)(iii): [Minn. R. 7090]
121.3	"Reclamation" means activities undertaken, in compliance with applicable mined land reclamation requirements, following cessation of the activities associated with extraction through production of a salable product, intended to return the land to an appropriate post-mining land use in order to meet applicable Federal and State reclamation requirements. [Minn. R. 7090]
121.4	"Active metal mining facility" means a place where the Permittee conducts work or other activity related to the extraction, removal, or recovery of metal ore. For surface mines, this definition does not include any land where grading has returned the earth to a desired contour and reclamation has begun. This definition is derived from the definition of "active mining area" found at 40 C.F.R. 440.132(a). [Minn. R. 7090]
121.5	"Inactive metal mining facility" means a site or portion of a site where metal mining and/or milling occurred in the past but is not an active facility as defined above, and where the inactive portion is not covered by an active mining permit issued by the applicable State or Federal agency. An inactive metal mining facility has an identifiable Owner/Operator. [Minn. R. 7090]
121.6	"Temporarily inactive metal mining facility" means a site or portion of a site where metal mining and/or milling occurred in the past but currently the Permittee is not actively undertaking, and the facility is covered by an active mining permit issued by the applicable State or Federal agency. [Minn. R. 7090]
122.1	**Stormwater Controls**. [Minn. R. 7090]
123.1	**Employee Training**. [Minn. R. 7090]
123.2	The Permittee shall conduct training at active and temporarily inactive sites. The Permittee shall document all training regardless of site type in the facility's SWPPP. [Minn. R. 7090]
124.1	**Inspections**. [Minn. R. 7090]
124.2	The Permittee shall conduct site inspections in accordance with the Stormwater Control Measures section of this permit. If the facility is inactive and unstaffed, temporarily inactive and unstaffed as defined above, or is a site undergoing reclamation, the Permittee does not have to do monthly facility inspections. The Permittee shall inspect the site when the Permittee has reason to believe that severe weather or natural disasters may damage stormwater control measures or increase discharges. [Minn. R. 7090]
124.3	The Permittee shall conduct site inspections in accordance with the Stormwater Control Measures section of this permit. If the facility is inactive and unstaffed, temporarily inactive and unstaffed as defined above, or is a site undergoing reclamation, the Permittee does not have to do monthly facility inspections. The Permittee shall inspect the site when the Permittee has reason to believe that severe weather or natural disasters may damage stormwater control measures or increase discharges. If circumstances change and the facility becomes active and/or staffed, this exception no longer applies and compliance with the monthly inspection requirements in accordance with the Stormwater Control Measures section of this permit must begin immediately. The MPCA retains the authority to revoke this exception where it is determined that the discharge causes, has a reasonable potential to cause, or contributes to an in-stream excursion above an applicable water quality standard, including designated uses. [Minn. R. 7090]
125.1	**Management of Runoff**. [Minn. R. 7090]
125.2	If treatment of stormwater (e.g. chemical or physical systems, oil and water separators, artificial wetlands) is necessary to protect water quality, the Permittee shall describe the type and location of treatment the Permittee uses. Where practical, the Permittee shall use passive and/or active treatment of stormwater runoff. The Permittee may discharge treated runoff as a stormwater source regulated under this permit provided the discharge does not combine with discharges subject to

	effluent limitation guidelines for the Ore Mining and Dressing Point Source Category (40 C.F.R. pt. 440). [Minn. R. 7090]
126.1	**Other Industry Specific Control Measures**. [Minn. R. 7090]
126.2	When capping is necessary to minimize pollutant discharges in stormwater, Permittees shall identify and documents in the SWPPP the source needing capping and the cap construction material. [Minn. R. 7090]
127.1	**SWPPP Requirements**. [Minn. R. 7090]
127.2	In addition to the requirements in the Stormwater Pollution Prevention Plan section of this permit, the Permittee shall also comply with the following: A. **Facility Map**. The Permittee shall document in the SWPPP the locations of the following (as appropriate): i. Mining or milling site boundaries; ii. Access and haul roads; iii. Outline of the drainage areas of each monitoring location within the facility with indications of the types of discharges from the drainage areas; iv. Location(s) of all permitted discharges covered under an individual NPDES/SDS permit, outdoor equipment storage, fueling, and maintenance areas; v. Materials handling areas; vi. Outdoor manufacturing, outdoor storage, and material disposal areas; vii. Outdoor chemicals and explosives storage areas; viii. Overburden, materials, soils, or waste storage areas; ix. Tailings piles and ponds (including those proposed); x. Heap leach pads; xi. Off-site points of discharge for mine drainage and process water; xii. Surface waters; xiii. Boundary of tributary areas that are subject to effluent limitations guidelines; and xiv. Location(s) of sites undergoing reclamation and reclaimed areas. B. **Inventory of Exposed Materials**. The Permittee shall document in the SWPPP the mining and associated activities that can potentially affect stormwater, including a general description of the location of the site relative to major transportation routes and communities; C. **Potential Pollutant Sources**. For each area of the mine or mill site where industrial stormwater discharges occur, the Permittee shall identify the types of pollutants (e.g. heavy metals, sediment) likely to be present in significant amounts. The Permittee shall consider the following factors: i. The mineralogy of the ore and waste rock (e.g. acid forming); ii. Toxicity and quantity of chemicals the Permittee uses, produces, or discharges; iii. The likelihood of contact with stormwater; iv. Vegetation of site (if any); and v. History of significant leaks or spills of toxic or hazardous pollutants. Also include a summary of any existing ore or waste rock or overburden characterization data and test results for potential generation of acid rock. If the Permittee acquires any new data due to changes in type of ore the Permittee mines, the Permittee shall update the SWPPP with this information. D. **Description of Stormwater Controls**. The Permittee shall document all control measures the Permittee implements. If the Permittee implements or plans control measures that are not listed above, the Permittee shall include descriptions of these controls in the SWPPP. [Minn. R. 7090]
128.1	**Monitoring and Reporting Requirements**. [Minn. R. 7090]
128.2	Monitoring and reporting requirements in this part do not apply to unstaffed inactive and temporarily inactive facilities or sites undergoing reclamation. [Minn. R. 7090]
128.3	In accordance with the Benchmark Monitoring Requirements section of this permit the Permittee shall monitor the applicable parameters in Table G-1 and G-2 of Appendix B. The Permittee may be notified by the MPCA that additional monitoring must be conducted to accurately characterize the quality and quantity of pollutants discharged from waste rock and overburden piles. [Minn. R. 7090]
129.1	**Use of Infiltration Systems and/or Industrial Stormwater Ponds for Stormwater Treatment and Disposal**. [Minn. R. 7090]
129.2	Sector G industrial facilities may use designed infiltration systems or industrial stormwater ponds for stormwater management. [Minn. R. 7090]

130.1	**Termination of Coverage**. [Minn. R. 7090]
130.2	If a site, or portion of a site, has no applicable state or federal reclamation requirements on or after August 25, 1980, it no longer needs permit coverage if the stormwater discharges do not have the potential to cause or contribute to violations of state water quality standards. [Minn. R. 7090]
131.1	**Sector H. Coal Mines and Coal Mining-Related Facilities**. [Minn. R. 7090]
132.1	**Authorized Stormwater Discharges**. [Minn. R. 7090]
132.2	These Sector H requirements apply to stormwater discharges occurring from the industrial activity from coal mines and coal mining-related facilities, with the industrial activity codes in Appendix A. [Minn. R. 7090]
133.1	**Limitations on Authorization**. [Minn. R. 7090]
133.2	The following discharges are not authorized under this permit: A. Discharges from pollutant seeps or underground drainage from inactive coalmines and refuse disposal areas that do not result from precipitation events, and discharges from floor drains in maintenance buildings and other similar drains in mining and preparation plant areas; and B. Stormwater discharges subject to an existing effluent limitation guideline at 40 C.F.R. pt. 434. [Minn. R. 7090]
134.1	**Sector-Specific Definitions**. [Minn. R. 7090]
134.2	The following definitions do not supersede the definitions of active and inactive mining facilities established by 40 C.F.R. 122.26(b)(14)(iii). [Minn. R. 7090]
134.3	"Reclamation" means activities undertaken in compliance with applicable mined land reclamation requirements following cessation of the activities associated with extraction, removal, or recovery of coal intended to return the land to an appropriate post-mining land use in order to meet applicable Federal and State reclamation requirements. [Minn. R. 7090]
134.4	"Active coal mining facility" means a place where work or other activity related to the extraction, removal, or recovery of coal is occurring. For surface mines, this definition does not include any land where grading has returned the earth to a desired contour and reclamation has begun. This definition is derived from the definition of "active mining area" found at 40 C.F.R. 440.132(a). [Minn. R. 7090]
134.5	"Inactive metal mining facility" means a site or portion of a site with past metal mining and/or milling activities but is not an active facility as defined above, and where the inactive portion does not have active mining permit coverage issued by the applicable State or Federal agency. An inactive metal mining facility has an identifiable Owner/Operator. [Minn. R. 7090]
134.6	"Temporarily inactive metal mining facility" means a site or portion of a site with past metal mining and/or milling activities but currently are not being actively undertaken, and the facility has active mining permit coverage issued by the applicable State or Federal agency. [Minn. R. 7090]
135.1	**Stormwater Controls**. [Minn. R. 7090]
136.1	**Employee Training**. [Minn. R. 7090]
136.2	As part of the employee training program, the Permittee shall address the following activities: use of reused and recycled waters, solvents management, proper disposal of dyes, and proper disposal of petroleum products and spent lubricants. [Minn. R. 7090]
137.1	**Erosion and Sedimentation Controls**. [Minn. R. 7090]
137.2	Surface Mining Control and Reclamation Act (SMCRA) requirements regarding sediment and erosion control measures are primary requirements of the SWPPP for mining-related areas subject to SMCRA authority. [Minn. R. 7090]
138.1	**Good Housekeeping**. [Minn. R. 7090]
138.2	The Permittee shall use sweepers and covered storage, water haul roads to minimize dust generation, and conserve vegetation to minimize erosion. [Minn. R. 7090]
139.1	**Inspections**. [Minn. R. 7090]
139.2	In addition to the inspection requirements outlined in the Stormwater Control Measures section of this permit, the Permittee shall ensure that two of the monthly inspections occur during runoff events, with at least one inspection occurring during a snowmelt runoff event if possible. Each inspection must include a visual assessment of the runoff to identify any visible sheens or films that indicate the presence of oil or grease in the discharge. If sheens are present in stormwater discharges, implement corrective actions to prevent sheen and document those corrective actions in the

	SWPPP. [Minn. R. 7090]
139.3	For active mining-related areas and inactive areas under SMCRA Bond Authority, the Permittee shall perform quarterly inspections, corresponding with the inspections performed by SMCRA inspectors, of all mining-related areas required by SMCRA. Also maintain the records of the SMCRA authority representative. [Minn. R. 7090]
139.4	The Permittee shall perform inspections or other equivalent measures of storage tanks and pressure lines of fuels, lubricants, hydraulic fluid, and slurry to prevent leaks due to deterioration or faulty connections. [Minn. R. 7090]
140.1	**SWPPP Requirements**. [Minn. R. 7090]
140.2	In addition to the requirements in the Stormwater Pollution Prevention Plan section of this permit, the Permittee shall also comply with the following: A. **Facility Map**. The Permittee shall identify where any of the following may come into contact with stormwater: i. All applicable mining-related areas; ii. Acidic spoil, refuse, or un-reclaimed disturbed areas; and iii. Liquid storage tanks containing pollutants such as caustics, hydraulic fluids, and lubricants. B. **Potential Pollutant Sources**. The Permittee shall describe the following sources that have potential pollutants associated with them: i. Truck traffic on haul roads and resulting generation of sediment subject to runoff and dust generation; ii. Fuel or other liquid storage; iii. Pressure lines containing slurry, hydraulic fluid, or other potential harmful liquids; and iv. Loading or temporary storage of acidic refuse or spoil. C. **Description of Stormwater Controls**. Most active coal mining-related areas (SIC Codes 1221- 1241) are subject to sediment and erosion control regulations of the U.S. Office of Surface Mining (OSM) that enforces the Surface Mining Control and Reclamation Act (SMCRA). OSM has granted authority to most coal-producing states to implement SMCRA through State SMCRA regulations. The Permittee shall address all SMCRA requirements regarding control of stormwater-related pollutant discharges in the SWPPP. [Minn. R. 7090]
141.1	**Monitoring and Reporting Requirements**. [Minn. R. 7090]
141.2	In accordance with the Benchmark Monitoring Requirements section of this permit, the Permittee shall monitor the applicable parameters in Table H-1 in Appendix B. [Minn. R. 7090]
142.1	**Use of Infiltration Systems and/or Industrial Stormwater Ponds for Stormwater Treatment and Disposal**. [Minn. R. 7090]
142.2	Sector H industrial facilities may use designed infiltration systems or industrial stormwater ponds for stormwater management. [Minn. R. 7090]
143.1	**Sector I. Oil and Gas Extraction and Refining**. [Minn. R. 7090]
144.1	**Authorized Stormwater Discharges**. [Minn. R. 7090]
144.2	These Sector I requirements apply to stormwater discharges occurring from oil and gas extraction facilities, with the industrial activity codes in Appendix A. [Minn. R. 7090]
145.1	**Limitations on Authorization**. [Minn. R. 7090]
145.2	This permit does not authorize stormwater discharges from petroleum drilling operations that are subject to nationally established effluent limitation guidelines found at 40 C.F.R. pt. 435, respectively. [Minn. R. 7090]
146.1	**Stormwater Controls**. [Minn. R. 7090]
147.1	**Inspections**. [Minn. R. 7090]
147.2	The Permittee shall inspect equipment and vehicles that store, mix (including all on- and offsite mixing tanks), or transport chemicals or hazardous materials (including those transporting supplies to oil field activities). [Minn. R. 7090]
147.3	In addition to the inspection requirements outlined in the Stormwater Control Measures section of this permit, the Permittee shall ensure that a total of two of the monthly inspections occur during runoff events, with at least one inspection occurring during a snowmelt runoff event if possible. Each inspection must include a visual assessment of the runoff to identify any visible sheens or films that indicate the presence of oil or grease in the discharge. If sheens are present in stormwater discharges, implement corrective actions to prevent sheen and document those corrective actions in the SWPPP. [Minn. R. 7090]
148.1	**Preventive Maintenance**. [Minn. R. 7090]
148.2	The Permittee shall describe and implement measures that prevent or minimize contamination of stormwater from

	chemical mixing areas and take measures necessary to prevent discharges of stormwater that have contacted wastewater pollutants from any sources associated with production, field exploration, drilling, well completion, or well treatment (i.e. produced water, drilling muds, drill cuttings, and produced sand). [Minn. R. 7090]
149.1	**SWPPP Requirements**. [Minn. R. 7090]
149.2	In addition to the requirements in the Stormwater Pollution Prevention Plan section of this permit, the Permittee shall also comply with the following: A. **Facility Map**. The Permittee shall identify where any of the following may come into contact with stormwater: i. Locations used for the treatment, storage, or disposal of wastes; ii. Chemical mixing areas; iii. Construction and drilling areas; and iv. All areas subject to the effluent guideline requirements for "No Discharge" in accordance with 40 C.F.R. 435.32. B. **Potential Pollutant Sources**. The Permittee shall describe the following sources that have pollution potential: i. Chemical, cement, mud, or gel mixing activities; ii. Drilling or mining activities; and iii. Equipment rehabilitation activities. [Minn. R. 7090]
150.1	**Monitoring and Reporting Requirements**. [Minn. R. 7090]
150.2	In accordance with the Benchmark Monitoring Requirements section of this permit, the Permittee shall monitor the applicable parameters in Table I-1 in Appendix B. [Minn. R. 7090]
151.1	**Use of Infiltration Systems and/or Industrial Stormwater Ponds for Stormwater Treatment and Disposal**. [Minn. R. 7090]
151.2	Sector I industrial facilities have may use designed infiltration systems or industrial stormwater ponds for stormwater management. [Minn. R. 7090]
152.1	**Sector J. Mineral Mining and Dressing**. [Minn. R. 7090]
153.1	**Authorized Stormwater Discharges**. [Minn. R. 7090]
153.2	These Sector J requirements apply to stormwater discharges occurring from construction activity and industrial activity from the following activities specified in Appendix A: A. Active, temporarily inactive, and inactive mineral mining and dressing facilities; B. Mining sites undergoing reclamation; and C. Earth-disturbing activities conducted prior to active mining activities as defined in this section. [Minn. R. 7090]
154.1	**Limitations on Eligibility for Coverage**. [Minn. R. 7090]
154.2	The Permittee is not allowed to conduct the following earth-disturbing activities conducted prior to active mining activities under this permit: A. Disturbing 50 acres or more where stormwater will discharge within one mile to special waters; or B. Disturbing 50 acres or more where stormwater will discharge to impaired waters. If the Permittee will conduct either of these activities, the Permittee shall submit an application for coverage under the Construction Stormwater NPDES/SDS General Permit MNR100001 (CSW Permit). [Minn. R. 7090]
155.1	**Limitations on Authorization**. [Minn. R. 7090]
155.2	The following discharges are not authorized under this permit: A. Dewatering of mine or quarry areas; and B. Aggregate wash water The following activities do not require coverage under this permit: A. Discharges from exploration sites and land disturbance activities to determine the financial viability of a site prior to mineral extraction that disturb less than one acre, including the building of site roads and removal of overburden and waste rock to expose minerals and are not covered by an active mining permit issued by the applicable State or Federal agency. Note: If these activities disturb greater than one acre, you must obtain coverage under either this Industrial Stormwater Permit or the General Stormwater Permit for Construction Activity; B. Discharges from earth-disturbing activities that disturb less than one acre for construction of infrastructure at mineral extraction, including the building of site roads and removal of overburden and waste rock to expose minerals do not require industrial stormwater permit; C. Closed mineral mining sites where disturbances associated with extraction, removal or recovery of minerals took place

	prior to September 30, 1992, and where extraction, removal or recovery activities have not taken place on or after September 30, 1992 are not active or inactive mineral mining facilities and do not require an industrial stormwater permit; and D. Sites where the Permittee maintains mineral mining claims to extraction disturbances removal, or recovery of minerals and sites where minimal activities are undertaken for the sole purpose of maintaining a mineral mining claim are not active or inactive mining facilities and do not require an industrial stormwater permit. [Minn. R. 7090]
156.1	**Sector-Specific Definitions**. [Minn. R. 7090]
156.2	The following definitions do not supersede the definitions of active and inactive mining facilities established by 40 C.F.R. 122.26(b)(14)(iii). [Minn. R. 7090]
156.3	Earth-disturbing activities conducted prior to active mining activities. These activities consist of two classes of earth-disturbing (i.e., clearing, grading and excavation) activities: A. Activities performed for purposes of mine site preparation, including: cutting new rights of way (except when related to road construction); providing access to a mine site for vehicles and equipment (except when related to road construction); or other earth disturbances associated with mine site preparation activities on any areas where active mining activities have not yet commenced (e.g., for heap leach pads, waste rock facilities, tailings impoundments, wastewater treatment plants); and B. Construction of staging areas to prepare for erecting structures (e.g., to house project personnel and equipment, mill buildings, etc.) and construction of roads. Earth-disturbing activities associated with the construction of staging areas and the construction of roads conducted prior to active mining are "construction activity" or "small construction activity" as defined by 40 C.F.R. Parts 122.26(b)(14)(x) and (b)(15)(i) and have additional effluent limits if more than one acre is disturbed. [Minn. R. 7090]
156.4	"Reclamation" means activities undertaken in compliance with applicable mined land reclamation requirements following the cessation of activities associated with extraction, removal and recovery of minerals, intended to return the land to an appropriate post- mining land use. [Minn. R. 7090]
156.5	"Active Mineral Mining Facility" means a place where the Permittee conducts work or other activity related to the extraction, removal, or recovery of minerals. For surface mines, this definition does not include any land where grading has returned the earth to desired contour and reclamation has begun. This definition is derived from the definition of "active mining area" found at 40 C.F.R. 440.132(a). [Minn. R. 7090]
156.6	"Inactive Mineral Mining Facility" means a site or portion of a site with past mineral mining and/or milling activities but is not an active facility as defined above, and where the inactive portion does not have active mining permit coverage from the applicable State or Federal agency. [Minn. R. 7090]
156.7	"Temporarily Inactive Mineral Mining Facility" means a site or portion of a site where mineral mining and/or milling occurred in the past but currently are not active, and the facility is covered by an active mining permit issued by the applicable State or Federal agency. [Minn. R. 7090]
157.1	**Requirements Applicable to Earth-Disturbing Activities Conducted Prior to Active Mining Activities**. [Minn. R. 7090]
157.2	Permittees must notify the MPCA prior to initiating earth-disturbing activities conducted prior to active mining. Permittees must submit the notification to csw.notify.pca@state.mn.us or in another manner determined by the MPCA. The notification must include the following information: A. Name of facility or permit identification number; B. County where work will be performed; C. Estimated start date for construction and estimated completion date; and D. Approximate number of acres to be disturbed. [Minn. R. 7090]
157.3	This permit covers stormwater discharges from earth-disturbing activities conducted prior to active mining activities that disturb an area equal to or greater than one acre. For these earth-disturbing activities, the Permittee must comply with all applicable requirements of this permit except for the stormwater control measures in the Stormwater Control Measures and Sector Specific Requirements sections of this permit and the monitoring requirements in Effluent Monitoring & Benchmark sections of this permit. In addition, the Permittee shall comply with the following requirements: A. A Permittee that conducts type a. activities as defined by Earth-Disturbing Activities Conducted Prior to Active Mining must comply with sections 7-11, 14, and 22-23 of the CSW Permit. The CSW Permit stormwater control measures supersede the stormwater controls listed above. Compliance with the CSW Permit requirements for earth disturbing activities conducted prior to active mining no longer apply when active mining activities commence; and

	B. A Permittee that conducts type B activities as defined by Earth-Disturbing Activities Conducted Prior to Active Mining must comply with sections 5-23 of the CSW Permit. The CSW Permit stormwater control measures supersede the stormwater controls listed above. Compliance with these requirements for earth-disturbing activities conductive at active mine sites is no longer required when the Permittee ceases earth-disturbing activities and has met final stabilization requirements with the CSW Permit. [Minn. R. 7090]
158.1	**Erosion and Sedimentation Controls**. [Minn. R. 7090]
158.2	The Permittee shall implement sediment control on all down-gradient perimeters before any up-gradient land disturbing activities begin. Use a range of erosion controls within the broad categories of: flow diversion (e.g. swales); stabilization (e.g. temporary or permanent seeding); and structural controls (e.g. sediment traps, dikes, silt fences). The Permittee shall adjust the timing of the installation of sediment control practices to accommodate short-term activities. [Minn. R. 7090]
159.1	**Inspections**. [Minn. R. 7090]
159.2	If a facility is inactive and unstaffed, the Permittee does not have to conduct monthly facility inspections outlined in the Stormwater Controls Section of this permit and may conduct semi-annual inspections. This exception only applies to Sector J activities. [Minn. R. 7090]
160.1	**SWPPP Requirements**. [Minn. R. 7090]
160.2	The SWPPP requirements are applicable for active mineral mining facilities, earth-disturbing activities, inactive mining facilities, temporarily inactive mineral mining facilities, temporarily inactive mineral mining facilities, and sites undergoing reclamation. In addition to the requirements in the Stormwater Pollution Prevention Plan section of this permit, the Permittee shall also comply with the following: A. **Facility Map**. The Permittee shall identify the following locations: i. Mining or milling site boundaries; ii. Access and haul roads; iii. Outline of the drainage areas of each monitoring location within the facility with indications of the types of discharges from the drainage areas; iv. Location(s) of all permitted discharges covered under a separate NPDES/SDS permit; v. Outdoor equipment storage, fueling, and maintenance areas; vi. Materials handling areas; vii. Outdoor manufacturing, outdoor storage, and material disposal areas; viii. Outdoor chemicals and explosives storage areas; ix. Overburden, materials, soils, or waste storage areas; x. Heap leach pads; xi. Surface waters; xii. Boundary of tributary areas that are subject to effluent limitations guidelines; and xiii. Location(s) of reclaimed areas. B. **Potential Pollutant Sources**. For each area of the mine or mill site where industrial stormwater discharges occur, the Permittee shall identify the types of pollutants (e.g. heavy metals, sediment) likely present in significant amounts. Evaluate the following factors in the identification of pollutants: i. The mineralogy of the waste rock (e.g. acid forming); ii. Toxicity and quantity of chemicals the Permittee uses, produces, or discharges; iii. The likelihood of contact with stormwater; iv. Vegetation of site (if any); and v. History of significant leaks or spills of toxic or hazardous pollutants. Also include a summary of any existing waste rock or overburden characterization data and test results for potential generation of acid rock. The Permittee shall describe the mining and associated activities that can affect the stormwater discharges covered by this permit, including a general description of the location of the site relative to major transportation routes and communities. [Minn. R. 7090]
161.1	**Monitoring and Reporting Requirements**. [Minn. R. 7090]
161.2	In accordance with the Benchmark Monitoring Requirements section of this permit, the Permittee shall monitor the applicable parameters in Table J-1 in Appendix B. [Minn. R. 7090]
162.1	**Use of Infiltration Systems and/or Industrial Stormwater Ponds for Stormwater Treatment and Disposal**. [Minn. R. 7090]

162.2	Sector J industrial facilities may use infiltration systems or industrial stormwater ponds for stormwater management. [Minn. R. 7090]
163.1	**Termination of Coverage**. [Minn. R. 7090]
163.2	If a site, or portion of a site, has no applicable county, state, or federal reclamation requirements after September 30, 1992, it no longer meets permit requirements provided the stormwater discharges do not have the potential to cause or contribute to violations of state water quality standards. The permit requirements also do not apply to reclamation sites after September 30, 1992. A site or portion of a site is considered a reclamation area if: A. Raw materials, intermediate byproducts, finished products, and waste products do not have the potential to cause or contribute pollutants to stormwater discharges; B. The Permittee stabilizes the drainage ways that leave the site to prevent erosion with riprap or other protective material; C. The Permittee completes soil-disturbing activities at the site and stabilizes all soils with a uniform perennial vegetative cover with a density of 70 percent over the entire pervious surface area, or other equivalent means necessary to prevent soil failure under erosive conditions; D. The Permittee stabilizes drainage ditches constructed to drain water from the site to preclude erosion; E. The Permittee removes temporary synthetic and structural erosion prevention and sediment control BMPs; F. The Permittee cleans out all sediment from conveyances and from temporary sedimentation basins that the Permittee uses as permanent water quality management basins. The Permittee shall stabilize sediment to prevent it from washing back into the basin, conveyances or drainage-ways discharging off-site or to surface waters. The cleanout of permanent basins must be sufficient to return the basin to design capacity; G. The Permittee shall install permanent stormwater treatment for new impervious surfaces the Permittee creates; and H. The Permittee shall implement other BMPs as necessary to prevent erosion from the site excavation areas and stockpiles that the Permittee uses. [Minn. R. 7090]
164.1	**Sector K. Hazardous Waste Treatment, Storage, or Disposal Facilities**. [Minn. R. 7090]
165.1	**Authorized Stormwater Discharges**. [Minn. R. 7090]
165.2	These Sector K requirements apply to stormwater discharges occurring from the industrial activity from hazardous waste treatment, storage, or disposal facilities (TSDFs), with the industrial activity codes in Appendix A. [Minn. R. 7090]
166.1	**Limitations on Authorization**. [Minn. R. 7090]
166.2	The Permittee cannot discharge the following under this permit: A. Hazardous waste landfill wastewaters, sanitary wastewater, contaminated groundwater, wastewater from recovery pumping wells, leachate, gas collection condensate, drained free liquids, contaminated ground water, laboratory-derived wastewater, and contact wash water from washing truck and railcar exteriors and surface areas that have come in direct contact with solid waste at the landfill facility; and B. Contaminated stormwater from hazardous waste landfills is regulated pursuant to 40 C.F.R. pt. 445, subp. A. These numeric limitations (effluent limitation guidelines) apply to contaminated stormwater discharges from hazardous waste landfills subject to the provisions of RCRA Subtitle C at 40 C.F.R. pts. 264, subp. N and 265, subp. N. [Minn. R. 7090]
167.1	**Sector-Specific Definitions**. [Minn. R. 7090]
167.2	"Contaminated stormwater" as defined in 40 C.F.R. pt. 445 (Landfills Point Source Category) means stormwater that comes in direct contact with landfill wastes, the waste handling and treatment areas, or landfill wastewater as defined below. Some specific areas of a landfill that may produce contaminated stormwater include, but are not limited to, the open face of an active landfill with exposed waste (no cover added); the areas around wastewater treatment operations; trucks, equipment, or machinery that has been in direct contact with the waste; and waste dumping areas. [Minn. R. 7090]
167.3	"Drained free liquids" means aqueous wastes drained from waste containers (e.g. drums) prior to landfilling. [Minn. R. 7090]
167.4	"Land treatment facility" means a facility or part of a facility that applies hazardous waste onto or incorporates into the soil surface; such facilities are disposal facilities if the waste will remain after closure. [Minn. R. 7090]
167.5	"Landfill" means an area of land or an excavation in which wastes are placed for permanent disposal, but that is not a land application or land treatment unit, surface impoundment, underground injection well, waste pile, salt dome formation, salt bed formation, underground mine, or cave as these terms are defined in 40 C.F.R. 257.2, 258.2, and 260.10. [Minn. R. 7090]

167.6	"Landfill wastewater" as defined in 40 C.F.R. pt. 445 (Landfills Point Source Category) means all wastewater associated with, or produced by, landfilling activities except for sanitary wastewater, non-contaminated stormwater, contaminated groundwater, and wastewater from recovery pumping wells. Landfill wastewater includes, but is not limited to, leachate, gas collection condensate, drained free liquids, laboratory derived wastewater, contaminated stormwater, and contact wash water from washing truck, equipment, and railcar exteriors and surface areas that have come in direct contact with solid waste at the landfill facility. [Minn. R. 7090]
167.7	"Leachate" means a liquid that has passed through or emerged from solid waste and contains soluble, suspended, or miscible materials removed from such waste as defined in 40 C.F.R. pt. 257. [Minn. R. 7090]
167.8	"Non-contaminated stormwater" as defined in 40 C.F.R. pt. 445 (Landfills Point Source Category) means stormwater that does not come into contact with landfill wastes, the waste handling and treatment areas, or landfill wastewater as defined above. Non-contaminated stormwater includes stormwater that flows off the cap, cover, intermediate cover, daily cover, and/or final cover of the landfill. [Minn. R. 7090]
167.9	"Pile" means any non-containerized accumulation of solid, non-flowing hazardous waste that is used for treatment or storage and that is not a containment building as defined in 40 C.F.R. 260.10. [Minn. R. 7090]
167.10	"Surface impoundment" means a facility or part of a facility that is a natural topographic depression, human-made excavation, or diked area formed primarily of earthen materials (although it may be lined with man-made materials), that is designed to hold an accumulation of liquid wastes or wastes containing free liquids, and that is not an injection well. Examples of surface impoundments are holding storage, settling, and aeration pits, ponds, and lagoons as defined in 40 C.F.R. pt. 257. [Minn. R. 7090]
168.1	**Monitoring and Reporting Requirements**. [Minn. R. 7090]
168.2	In accordance with the Benchmark and Effluent Monitoring Requirements sections of this permit, the Permittee shall monitor the applicable parameters in Table K-1 in Appendix B. [Minn. R. 7090]
169.1	**Use of Infiltration Systems and/or Industrial Stormwater Ponds for Stormwater Treatment and Disposal**. [Minn. R. 7090]
170.1	**Industrial Stormwater Ponds**. [Minn. R. 7090]
170.2	The Permittee of a Sector K industrial facility not operating as a Solid Waste Management Unit (SWMU) with outdoor storage has authorization to use industrial stormwater ponds for stormwater management without additional restrictions. [Minn. R. 7090]
170.3	The Permittee of a Sector K industrial facility operating as a SWMU with outdoor storage has authorization to use industrial stormwater ponds for stormwater management provided that any industrial stormwater pond constructed after April 5, 2010 meets the following design criteria: A. Line the industrial stormwater pond with a synthetic liner that is chemically compatible with materials expected to enter the pond. Design the pond to restrict infiltration to less than 500 gallons per acre per day. The pond must be Ultraviolet (UV) stable; and B. Design the industrial stormwater pond in accordance with accepted engineering practices identified in the latest version of the MPCAs "Recommended Pond Design Criteria". Any Permittee required to comply with this part does not have authorization to utilize the general benchmark monitoring waiver. [Minn. R. 7090]
171.1	**Infiltration Systems**. [Minn. R. 7090]
171.2	The Permittee of a Sector K industrial facility not operating as a SWMU with outdoor storage has authorization to use a designed infiltration system for industrial stormwater management and does not need to comply with the requirements below. [Minn. R. 7090]
171.3	The Permittee of a Sector K industrial facility operating as a SWMU with outdoor has authorization to use a designed infiltration system for stormwater management, implemented prior to April 5, 2010, provided the Permittee complies with the following requirements: A. The Permittee shall conduct benchmark monitoring in accordance with the terms and conditions of this permit, of all industrial stormwater prior to infiltration. However, any Permittee that has to comply with this part that is using a designed infiltration system to manage industrial stormwater does not have authorization to utilize the benchmark monitoring waiver; and B. If the Permittee has a designed infiltration system operating prior to April 5, 2010, the Permittee has authorization to

	continue using that device. However, on or after April 5, 2010, the Permittee does not have authorization to construct new infiltration systems, expand infiltration activities or practices that result in infiltration, or expand volume of infiltration. [Minn. R. 7090]
172.1	**Sector L. Landfills and Land Application sites**. [Minn. R. 7090]
173.1	**Authorized Stormwater Discharges**. [Minn. R. 7090]
173.2	These Sector L requirements apply to stormwater discharges occurring from the industrial activity from: A. Landfills and land applications, with the industrial activity codes in Appendix A; and B. Earth-disturbing activities conducted ancillary to active landfill activities as defined in this section. [Minn. R. 7090]
174.1	**Limitations on Eligibility for Coverage**. [Minn. R. 7090]
174.2	The Permittee is not allowed to conduct the following Earth-disturbing activities conducted ancillary to active landfill activities under this permit: A. Disturbing 50 acres or more where stormwater will discharge within one mile to special waters; and B. Disturbing 50 acres or more where stormwater will discharge to impaired waters. If the Permittee will conduct either of these activities, the Permittee shall submit an application for coverage under the Construction Stormwater NPDES/SDS General Permit MNR100001 (CSW Permit). [Minn. R. 7090]
175.1	**Limitations on Authorization**. [Minn. R. 7090]
175.2	The Permittee cannot discharge the following under this permit: A. Leachate; B. Gas collection condensate; C. Drained free liquids; D. Contaminated and non-contaminated groundwater; E. Wastewater from recovery wells; F. Sanitary wastewater; G. Laboratory wastewater; and H. Contact wash water from washing truck and railcar exteriors and surface areas that have come in direct contact with solid waste at the landfill facility. [Minn. R. 7090]
176.1	**Sector-Specific Definitions**. [Minn. R. 7090]
176.2	"Contaminated stormwater" means stormwater that comes in direct contact with landfill wastes, the waste handling and treatment areas, or landfill wastewater as defined below. Some specific areas of a landfill that may produce contaminated stormwater include, but are not limited to, the open face of an active landfill with exposed waste (no cover added); the areas around wastewater treatment operations; trucks, equipment, or machinery that has been in direct contact with the waste; and waste dumping areas. [Minn. R. 7090]
176.3	"Drained free liquids" means aqueous wastes drained from waste containers (e.g. drums) prior to landfilling. [Minn. R. 7090]
176.4	"Landfill wastewater" means all wastewater associated with, or produced by, landfilling activities except for sanitary wastewater, non-contaminated stormwater, contaminated groundwater, and wastewater from recovery pumping wells. Landfill process wastewater includes, but is not limited to, leachate; gas collection condensate; drained free liquids; laboratory-derived wastewater; contaminated stormwater; and contact wash water from washing truck, equipment, and railcar exteriors and surface areas that have come in direct contact with solid waste at the landfill facility. [Minn. R. 7090]
176.5	"Leachate" means liquid that has passed through or emerged from solid waste and contains soluble, suspended, or miscible materials removed from such waste. [Minn. R. 7090]
176.6	"Non-contaminated stormwater" means stormwater that does not come in direct contact with landfill wastes, the waste handling and treatment areas, or landfill wastewater as defined above. Non-contaminated stormwater includes stormwater that flows off the cap, cover, intermediate cover, daily cover, and/or final cover of the landfill. [Minn. R. 7090]
176.7	Earth-disturbing activities conducted ancillary to active landfill activities means "construction activity" or "small construction activity" as defined by 40 C.F.R. parts 122.26(b)(14)(x) and (b)(15)(i) that are secondary to standard active landfill activities. This definition includes earth-disturbing activities that result in land disturbance equal to or greater than one acre for the purpose of building, demolishing, or replacing a structure such as a road, staging area, or structure to house

	personnel/equipment/etc. that support active landfill activities. This definition excludes earth-disturbing activities conducted as a standard part of active landfill activities. Stormwater discharges from these activities are considered industrial stormwater and subject to all applicable requirements of parts I through VIII of this permit. These activities may include, but are not limited to: A. Materials stockpiled for daily, intermediate, and final cover; B. Daily or intermediate cover placed on cells or trenches; C. Inactive areas of the landfill or open dump; D. Landfills or open dump areas that have gotten final covers but are not yet stabilized or where vegetation has yet to establish itself; E. Exposed soils from excavating cells/trenches; F. Land application sites where waste application has been completed but final vegetation has not yet been established; G. Earth disturbance as a part of long-term maintenance of the property, such as re-grading a road or re-graveling a gravel parking lot or equipment pad; and H. Cleaning out a roadside drainage ditch to maintain its "as-built" state. [Minn. R. 7090]
177.1	**Requirements Applicable to Earth-Disturbing Activities Conducted Ancillary to Active Landfill Activities**. [Minn. R. 7090]
177.2	Permittees must notify the MPCA prior to initiating earth-disturbing activities conducted ancillary to active landfill activities. The notification must be submitted to csw.notify.pca@state.mn.us or in another manner determined by the MPCA. The notification must include the following information: A. Name of facility or permit identification number; B. County where work will be performed; C. Estimated start date for construction and estimated completion date; and D. Approximate number of acres to be disturbed. [Minn. R. 7090]
177.3	If the Permittee performs earth-disturbing activities conducted ancillary to active landfill activities, the Permittee shall comply with: A. All applicable requirements of this permit except for the stormwater control measures in the Stormwater Control Measures and Sector-Specific sections, and the applicable monitoring requirements in the Effluent Monitoring and the Additional Requirements for Discharges to Special and Impaired Waters sections of this permit; and B. Sections 5 through 23 of the CSW Permit. The stormwater control measures in the CSW Permit supersede the stormwater controls listed in the Stormwater Control Measures and the Sector-Specific sections of this permit. Authorized discharges from areas where earth-disturbing activities conducted ancillary to active landfill activities have ceased and stabilization as required in the CSW Permit has been completed, are no longer subject to the requirements of this part. Stabilization is not required for areas where active landfill activities will occur. After required stabilization is complete, authorized discharges become subject to all other applicable requirements in this permit, including: the stormwater control measures in the Stormwater Control Measures and Sector-Specific sections; the inspection requirements in the Stormwater Control Measures section of this permit; and the monitoring requirements in the Effluent Monitoring and the Additional Requirements for Discharges to Special and Impaired Waters sections of this permit. [Minn. R. 7090]
178.1	**Final Stabilization for Earth-Disturbing Activities Conducted Ancillary to Active Landfill Activities**. [Minn. R. 7090]
178.2	The above requirements for Earth-Disturbing Activities Conducted Ancillary to Active Landfill Activities no longer apply when earth-disturbing activities have ceased and final stabilization has complied with the CSW Permit. [Minn. R. 7090]
179.1	**Stormwater Controls**. [Minn. R. 7090]
180.1	**Erosion and Sedimentation Controls**. [Minn. R. 7090]
180.2	The Permittee shall implement sediment control practices on all down-gradient perimeters before any up-gradient land disturbing activities begin. These practices must remain in place until the Permittee establishes final stabilization. The Permittee shall provide temporary stabilization (e.g. temporary seeding, mulching, and placing geotextiles on the inactive portions of stockpiles) for the following: A. Materials stockpiled for daily, intermediate, and final cover; B. Inactive areas of the landfill; C. Landfills areas that have final cover but vegetation has not been established; and D. Land application sites where waste application has been completed but final vegetation has not yet been established. [Minn. R. 7090]

181.1	**Good Housekeeping**. [Minn. R. 7090]
181.2	The Permittee shall provide protected storage areas for pesticides, herbicides, and fertilizers. [Minn. R. 7090]
182.1	**Inspections**. [Minn. R. 7090]
182.2	Inspect the following areas while conducting inspections as required by the Stormwater Control Measures section of this permit: A. Areas of landfills that do not have final stabilization; B. Active land application areas, areas used for storage of material and wastes that are exposed to precipitation, stabilization, and structural control measures; C. Leachate collection and treatment systems; D. Locations where equipment and waste trucks enter and exit the site; and E. Inactive landfills for stabilization and structural erosion control measures, leachate collection and treatment systems, and all closed land application areas. [Minn. R. 7090]
183.1	**Preventive Maintenance**. [Minn. R. 7090]
183.2	The Permittee shall maintain the following: A. All containers the Permittee uses for outdoor chemical and significant materials storage; B. All elements of leachate collection and treatment systems, to prevent commingling of leachate with stormwater; and C. The integrity and effectiveness of any intermediate or final cover (including repairing the cover as necessary), to minimize the effects of settlement, sinking, and erosion. [Minn. R. 7090]
184.1	**SWPPP Requirements**. [Minn. R. 7090]
184.2	In addition to the requirements in the Stormwater Pollution Prevention Plan section of this permit, the Permittee shall also comply with the following: A. **Facility Map**. The Permittee shall identify where any of the following may come into contact with stormwater: i. Active and closed landfill cells or trenches; ii. Active and closed land application areas; iii. Locations where open dumping is occurring or has occurred; iv. Locations of any known leachate springs or other areas where uncontrolled leachate may commingle with runoff; and v. Leachate collection and handling systems. B. **Potential Pollutant Sources**. The Permittee shall describe the following sources that have potential pollutants associated with them: i. Fertilizer, herbicide, and pesticide application; ii. Earth and soil moving; iii. Waste hauling and loading or unloading; iv. Daily, interim, and final cover material stockpiles as well as temporary waste storage areas; v. Exposure of active and inactive landfill and land application areas; vi. Uncontrolled leachate flows; and vii. Failure or leaks from leachate collection and treatment systems. [Minn. R. 7090]
185.1	**Monitoring and Reporting Requirements**. [Minn. R. 7090]
185.2	In accordance with the Benchmark and Effluent Monitoring Requirements sections of this permit, the Permittee shall monitor the applicable parameters in Table L-1 in Appendix B. [Minn. R. 7090]
186.1	**Use of Infiltration Systems and/or Industrial Stormwater Ponds for Stormwater Treatment and Disposal**. [Minn. R. 7090]
186.2	Sector L industrial facilities may use designed infiltration systems or industrial stormwater ponds for stormwater management. [Minn. R. 7090]
187.1	**Sector M. Automobile Salvage Yards**. [Minn. R. 7090]
188.1	**Authorized Stormwater Discharges**. [Minn. R. 7090]
188.2	These Sector M requirements apply to stormwater discharges occurring from the industrial activity from automobile salvage yards, with the industrial activity codes in Appendix A. [Minn. R. 7090]
189.1	**Stormwater Controls**. [Minn. R. 7090]
190.1	**Employee Training**. [Minn. R. 7090]
190.2	The Permittee shall address the following areas in the employee training program: proper handling (collection, storage,

	recycling and/or disposal) of fuels, oil, used mineral spirits, antifreeze, mercury switches, refrigerants, and solvents. [Minn. R. 7090]
191.1	**Good Housekeeping**. [Minn. R. 7090]
191.2	The Permittee shall either conduct indoors or minimize exposure of the following: A. Recycle lead battery cable ends and wheel balancing weights; B. Remove all fluids from vehicles and recycle or dispose of accordingly; C. Remove and segregate mercury switches, mercury containing devices, and batteries; D. Recycle fuels; E. Remove and dispose of refrigerants as required with complete avoidance of venting to atmosphere; F. Remove and dispose of glycols as required; G. Remove and recycle all lead parts; H. Separate and recycle plastics if feasible or dispose as solid waste; and I. Store all engines and transmissions that the Permittee removes from vehicles in covered areas that do not have exposure to precipitation. [Minn. R. 7090]
192.1	**Inspections**. [Minn. R. 7090]
192.2	The Permittee shall immediately inspect vehicles arriving at the facility. The Permittee shall inspect the following for signs of leakage; all equipment containing oily parts, hydraulic fluids, any other types of fluids, and mercury switches. Also, the Permittee shall inspect all vessels and areas where hazardous materials and general automotive fluids are stored, including, but not limited to, mercury switches, brake fluid, transmission fluid, fuels and oils, refrigerants, and antifreeze. [Minn. R. 7090]
192.3	In addition to the inspection requirements outlined in the Stormwater Control Measures section of this permit, the Permittee shall ensure that a total of two monthly inspections occur during runoff events, with at least one inspection occurring during a snowmelt runoff event if possible. Each inspection must include a visual assessment of the runoff to identify any visible sheens or films that indicate the presence of oil or grease in the discharge. If sheens are present in stormwater discharges, implement corrective actions to prevent sheen and document those corrective actions in the SWPPP. [Minn. R. 7090]
193.1	**Spills and Leaks**. [Minn. R. 7090]
193.2	The Permittee shall drain vehicles of all fluids before storage in the facility yard or before the Permittee crushes vehicles. If vehicles arrive at the facility with leaks, the Permittee shall either eliminate or contain the leak immediately to prevent stormwater contamination. [Minn. R. 7090]
194.1	**Monitoring and Reporting Requirements**. [Minn. R. 7090]
194.2	In accordance with the Benchmark Monitoring Requirements section of this permit, the Permittee shall monitor the applicable parameters in Table M-1 in Appendix B. [Minn. R. 7090]
195.1	**Use of Infiltration Systems and/or Industrial Stormwater Ponds for Stormwater Treatment and Disposal**. [Minn. R. 7090]
196.1	**Industrial Stormwater Ponds**. [Minn. R. 7090]
196.2	The Permittee of a Sector M industrial facility has authorization to use industrial stormwater ponds for stormwater management, provided that any industrial stormwater pond constructed after April 5, 2010, meets the following design criteria: A. Any Permittee required to comply with this part does not have authorization to utilize the benchmark monitoring waiver; B. The Permittee shall line the industrial stormwater pond with a synthetic liner that is chemically compatible with materials that enter the pond. Design the pond to restrict infiltration to less than 500 gallons per acre per day. The pond must be Ultraviolet (UV) stable; and C. Design the industrial stormwater pond in accordance with accepted engineering practices identified in the latest version of the MPCAs "Recommended Pond Design Criteria. [Minn. R. 7090]
197.1	**Infiltration Systems**. [Minn. R. 7090]
197.2	The Permittee of a Sector M industrial facility has authorization to use a designed infiltration system for stormwater management, implemented prior to April 5, 2010, provided the Permittee complies with the following requirements: A. The Permittee shall conduct benchmark monitoring in accordance with the Benchmark Monitoring Requirements section of this permit, of all industrial stormwater prior to infiltration. However, any Permittee required to comply with

	this part that is using a designed infiltration system to manage industrial stormwater does not have authorization to utilize the benchmark monitoring waiver; and B. If the Permittee has a designed infiltration system operating prior to April 5, 2010, the Permittee has authorization to continue using that device. However, on or after April 5, 2010, the Permittee does not have authorization to construct new infiltration systems, expand infiltration activities or practices that result in infiltration, or expand volume of infiltration. [Minn. R. 7090]
198.1	**Mercury Minimization Plan**. [Minn. R. 7090]
198.2	All vehicle recyclers and vehicle scrap processors must remove and manage and recycle mercury containing convenience lighting switch assemblies, mercury containing ABS switch assemblies, and mercury containing air bag sensor switch assemblies found in some vehicles manufactured before model year 2002. Under Minn. Stat. 116.92, subd. 4(c), "A person may not crush a motor vehicle unless the person has first made a good faith effort to remove all of the mercury switches in the motor vehicle. [Minn. R. 7090]
198.3	In addition, the Permittee shall also evaluate the facility to identify any additional sources of mercury that the Permittee may use or introduce at the facility. This includes, but is not limited to, mercury containing devices such as float switches, tilt switches; manometers; barometers; batteries; flame sensors (diostats); hydrometers; medical devices; lamps; mercury compounds; pyrometers; displacement relays; wetted reed relays; thermometers; pressure gauges; thermostats; etc. The plan must describe how the Permittee is removing mercury-containing devices, segregating mercury containing devices to avoid spills and contact with stormwater, and the methods used for recycling any mercury generated at the facility (including the specific recycling program the Permittee uses). The Permittee shall remove and recycle all mercury and mercury-containing devices in accordance with Minn. Stat. 115A.932 and 116.92 and in accordance with state and federal Universal Waste Rules and other applicable water, air, and waste regulations. [Minn. R. 7090]
199.1	**Sector N. Scrap Recycling and Waste Recycling Facilities**. [Minn. R. 7090]
200.1	**Authorized Stormwater Discharges**. [Minn. R. 7090]
200.2	These Sector N requirements apply to stormwater discharges occurring from the industrial activity from scrap recycling and waste recycling facilities, with the industrial activity codes in Appendix A. [Minn. R. 7090]
201.1	**Limitation on Authorization**. [Minn. R. 7090]
201.2	Non-stormwater discharges from ferrous and non-ferrous metal turnings containment areas do not have authorization by this permit. [Minn. R. 7090]
202.1	**Stormwater Controls**. [Minn. R. 7090]
203.1	**Good Housekeeping**. [Minn. R. 7090]
203.2	The Permittee shall minimize exposure of recyclables to precipitation and runoff and use good housekeeping measures to prevent accumulation of particulate matter and fluids, particularly in high traffic areas. [Minn. R. 7090]
204.1	**Inspections**. [Minn. R. 7090]
204.2	The Permittee shall minimize acceptance of materials that may be significant sources of pollutants by conducting inspections of the in-bound materials. [Minn. R. 7090]
204.3	In addition to the inspection requirements outlined in the Stormwater Control Measures section of this permit, the Permittee shall ensure that a total of two inspections occur during runoff events, with at least one inspection occurring during a snowmelt runoff event if possible. Each inspection must include a visual assessment of the runoff to identify any visible sheens or films that indicate the presence of oil or grease in the discharge. If sheens are present in stormwater discharges, implement corrective actions to prevent sheen and document those corrective actions in the SWPPP. [Minn. R. 7090]
205.1	**Management of Runoff**. [Minn. R. 7090]
205.2	The Permittee shall either store recyclables indoors or minimize: A. Contact of stormwater runoff with stockpiled scrap materials, processed materials, storage of materials and non-recyclable wastes; B. Contact of surface runoff with stockpiles of turnings exposed to cutting fluids by: i. Storing all turnings exposed to cutting fluids under some form of permanent or semi-permanent cover; and ii. Establishing dedicated containment areas for all turnings that come into contact with cutting fluids. The Permittee may discharge stormwater runoff from these areas, provided that the Permittee first collects and treats any runoff with an oil and water separator or its equivalent. The Permittee shall regularly maintain the oil and water separator (or its equivalent)

	and properly dispose of or recycle collected residual fluids. C. Contact of stormwater with residual liquids, particulate matter, and waste materials that are stored either outdoors or under cover; D. Surface runoff from coming in contact with scrap processing equipment, including operations that generate visible particulate residue (e.g. shredding); and E. Pollutants in discharges from truck and rail car loading and unloading areas and must include measures to clean up spills and leaks resulting from the transfer of liquid wastes. [Minn. R. 7090]
206.1	**Other Industry Specific Control Measures**. [Minn. R. 7090]
206.2	The Permittee shall notify major suppliers about which scrap materials they will not accept at the facility, or that they will only accept under certain conditions. [Minn. R. 7090]
206.3	The Permittee shall properly handle, store, and manage scrap lead-acid batteries. [Minn. R. 7090]
207.1	**SWPPP Requirements**. [Minn. R. 7090]
207.2	The SWPPP may refer to applicable portions of other existing plans, such as SPCC plans required under 40 C.F.R. pt. 112. In addition to the requirements in the Stormwater Pollution Prevention Plan section of this permit, the Permittee shall also comply with the following: A. The Permittee shall identify the locations of any of the following activities or sources that may come into contact with stormwater: i. Outdoor scrap and waste processing equipment; and ii. Containment areas for turnings exposed to cutting fluids. [Minn. R. 7090]
208.1	**Monitoring and Reporting Requirements**. [Minn. R. 7090]
208.2	In accordance with the Benchmark Monitoring Requirements section of this permit, the Permittee shall monitor the applicable parameters in Table N-1 in Appendix B. [Minn. R. 7090]
209.1	**Use of Infiltration Systems and/or Industrial Stormwater Ponds for Stormwater Treatment and Disposal**. [Minn. R. 7090]
210.1	**Industrial Stormwater Ponds**. [Minn. R. 7090]
210.2	The Permittee of a Sector N industrial facility has authorization to use industrial stormwater ponds for stormwater management provided that any industrial stormwater pond constructed after April 5, 2010, meets the following design criteria. Any Permittee required to comply with this part does not have authorization to utilize the benchmark monitoring waiver. A. Line the industrial stormwater pond with a synthetic liner that is chemically compatible with materials expected to enter the pond. Design the pond to restrict infiltration to less than 500 gallons per acre per day. The pond must be Ultraviolet (UV) stable; and B. Design the industrial stormwater pond in accordance with accepted engineering practices identified in the latest version of the MPCA's "Recommended Pond Design Criteria". [Minn. R. 7090]
211.1	**Infiltration Systems**. [Minn. R. 7090]
211.2	The Permittee of a Sector N industrial facility has authorization to use a designed infiltration system, implemented prior to April 5, 2010, for stormwater management provided the Permittee complies with the following requirements: A. The Permittee shall conduct benchmark monitoring in accordance with the terms and conditions of the Benchmark Monitoring Requirements section of this permit for all industrial stormwater prior to infiltration. However, any Permittee required to comply with this part that is using a designed infiltration system to manage industrial stormwater does not have authorization to utilize the benchmark monitoring waiver; and B. If the Permittee has a designed infiltration system operating prior to April 5, 2010, the Permittee has authorization to continue using that device. However, on or after April 5, 2010, the Permittee does not have authorization to construct new infiltration systems, expand infiltration activities or practices that result in infiltration, or expand volume of infiltration. [Minn. R. 7090]
212.1	**Mercury Minimization Plan**. [Minn. R. 7090]
212.2	All vehicle recyclers and vehicle scrap processors must remove and manage and recycle mercury-containing convenience lighting switch assemblies, mercury containing ABS switch assemblies, and mercury containing air bag sensor switch assemblies found in some vehicles manufactured before model year 2002. Under Minn. Stat. 116.92, subd. 4(c), "A person may not crush a motor vehicle unless the person has first made a good faith effort to remove all of the mercury switches in the motor vehicle.". [Minn. R. 7090]

212.3	In addition, the Permittee shall also evaluate the facility to identify any additional sources of mercury that the Permittee may use or introduce at the facility. This may include but is not limited to mercury containing devices such as float switches, tilt switches, manometers, barometers, batteries, flame sensors (diostats), hydrometers, medical devices, lamps, mercury compounds, pyrometers, displacement relays, wetted reed relays, thermometers, pressure gauges, thermostats, etc. The plan must describe how the Permittee is removing mercury-containing devices, segregating mercury-containing devices to avoid spills and contact with stormwater, and the methods used for recycling any mercury generated at the facility, including the specific recycling program the Permittee uses. Remove and recycle all mercury and mercury-containing devices in accordance with Minn. Stat. 115A.932 and 116.92 and in accordance with state and federal Universal Waste Rules and other applicable water, air, and waste regulations. [Minn. R. 7090]
213.1	**Sector O. Steam Electric Generating Facilities**. [Minn. R. 7090]
214.1	**Authorized Stormwater Discharges**. [Minn. R. 7090]
214.2	These Sector O requirements apply to stormwater discharges occurring from the industrial activity from steam electric power generating facilities, with the industrial activity codes in Appendix A. [Minn. R. 7090]
215.1	**Limitations on Authorization**. [Minn. R. 7090]
215.2	The Permittee cannot discharge the following under this permit: A. Non-stormwater discharges subject to effluent limitations guidelines; B. Stormwater discharges from ancillary facilities (e.g. gas turbine stations and substations) that are not contiguous to a steam electric power generating facility and heat capture co- generation facilities; and C. Coal pile runoff wastewater. Collect and treat coal pile runoff wastewater separate from other collected stormwater runoff. Discharge of coal pile runoff wastewater has authorization under an individual NPDES/SDS permit for the facility, which includes effluent limitations for this discharge. [Minn. R. 7090]
216.1	**Stormwater Controls**. [Minn. R. 7090]
217.1	**Good Housekeeping**. [Minn. R. 7090]
217.2	The Permittee shall describe and implement procedures to reduce or control the tracking of ash and residue from ash loading areas. The Permittee shall describe and implement housekeeping procedures, such as, dust suppression, containment, or clearing loading areas, floors and roadways of ash and excess water. [Minn. R. 7090]
218.1	**Inspections**. [Minn. R. 7090]
218.2	The Permittee shall inspect the following areas: A. Coal handling areas; B. Switchyards; C. Ash handling areas; and D. Areas adjacent to disposal ponds and landfills. [Minn. R. 7090]
218.3	The Permittee shall inspect all residue hauling (e.g. ash) vehicles for proper covering over the load, adequate gate sealing, and overall integrity of the container body. Repair vehicles without load covering or adequate gate sealing, or with leaking containers or beds as soon as practicable. [Minn. R. 7090]
218.4	In addition to the inspection requirements outlined in Stormwater Control Measures section of this permit, the Permittee shall ensure two of the required monthly inspections occur during runoff events, with at least one inspection occurring during a snowmelt runoff event if possible. Each inspection must include a visual assessment of the runoff to identify any visible sheens or films that indicate the presence of oil or grease in the discharge. If sheens are present in stormwater discharges, implement corrective actions to prevent sheen and document those corrective actions in the SWPPP. [Minn. R. 7090]
219.1	**Preventive Maintenance**. [Minn. R. 7090]
219.2	The Permittee shall describe and implement measures that prevent or minimize stormwater from contacting fugitive dust emissions from coal handling areas. [Minn. R. 7090]
219.3	The Permittee shall describe and implement measures that prevent or minimize contamination of stormwater runoff from delivery vehicles carrying significant materials arriving at the facility. The Permittee shall have procedures ensuring overall integrity of the body or container and procedures to deal with leakage or spillage from vehicles or containers. [Minn. R. 7090]
219.4	The Permittee shall describe and implement measures that prevent or minimize contamination of surface runoff from oil-bearing equipment in switchyard areas. The Permittee shall use level grades and gravel surfaces to slow down flows and

	limit the spread of spills from oil- bearing equipment in switchyards or collect runoff in perimeter ditches from these areas. [Minn. R. 7090]
220.1	**Spills and Leaks**. [Minn. R. 7090]
220.2	The Permittee shall describe and implement measures to reduce the potential for an oil or chemical spill or reference the appropriate part of the facility SPCC plan. Visually inspect the structural integrity of all aboveground tanks, pipelines, pumps, and related equipment, and conduct any necessary repairs, pursuant to requirements in Minn. R. 7151. [Minn. R. 7090]
221.1	**Management of Runoff**. [Minn. R. 7090]
221.2	The Permittee shall describe and implement measures that prevent or minimize contamination of surface runoff from areas adjacent to disposal ponds or landfills. Develop procedures to reduce ash residue that the Permittee may track on to access roads by residue handling vehicles and reduce ash residue on exit roads leading into and out of residue handling areas. [Minn. R. 7090]
222.1	**SWPPP Requirements**. [Minn. R. 7090]
222.2	In addition to the requirements of the Stormwater Pollution Prevention Plan section of this permit, the Permittee shall also comply with the following: A. **Facility Map**. The Permittee shall identify the locations of any of the following activities or sources that may come into contact with stormwater: i. Scrap yards and general refuse areas; ii. Short- and long-term storage of construction materials, paint equipment, oils, fuels, used and unused solvents, cleaning materials, paint, water treatment chemicals, fertilizer, and pesticides; iii, Landfills and construction sites; and iv. Stockpile areas (e.g. coal, ash or limestone piles). [Minn. R. 7090]
223.1	**Monitoring and Reporting Requirements**. [Minn. R. 7090]
223.2	In accordance with the Benchmark and Effluent Monitoring Requirements sections of this permit, the Permittee shall monitor the applicable parameters in Table O-1 in Appendix B. [Minn. R. 7090]
224.1	**Use of Infiltration Systems and/or Industrial Stormwater Ponds for Stormwater Treatment and Disposal**. [Minn. R. 7090]
224.2	Sector O industrial facilities have authorization to use designed infiltration systems or industrial stormwater ponds for stormwater management. [Minn. R. 7090]
225.1	**Sector P. Land Transportation and Warehousing**. [Minn. R. 7090]
226.1	**Authorized Stormwater Discharges**. [Minn. R. 7090]
226.2	These Sector P requirements apply to stormwater discharges occurring from the industrial activity from land transportation and warehousing facilities, with the industrial activity codes in Appendix A. [Minn. R. 7090]
227.1	**Limitations on Authorization**. [Minn. R. 7090]
227.2	Only those portions of a land transportation facility having vehicle maintenance (including vehicle rehabilitation, mechanical repairs, painting, fueling, and lubrication), equipment cleaning operations, or deicing operations are industrial activities under this permit. If other portions of the facility include industrial activities that are described at 40 C.F.R. 122.26(b)(14)(i-ix and xi), those industrial activities are also regulated under this permit, and the appropriate sector requirements for such activities apply. [Minn. R. 7090]
227.3	The limitation above is not applicable to warehousing and storage. This permit regulates all portions of a facility conducting warehousing and storage operations, as long as the industrial SIC codes are 4221-4225, warehousing and storage. [Minn. R. 7090]
227.4	This permit does not authorize the discharge of vehicle, equipment, or surface wash water, including tank cleaning operations. Such discharges may discharge to a sanitary sewer in accordance with applicable industrial pretreatment requirements, recycled on-site, or may require a separate NPDES/SDS permit. [Minn. R. 7090]
228.1	**Stormwater Controls**. [Minn. R. 7090]
229.1	**Employee Training**. [Minn. R. 7090]
229.2	When conducting employee training, the Permittee shall include: A. Proper management and disposal of used oil and spent solvent management; B. Fueling procedures;

	C. Proper painting procedures; and D. Used battery management. [Minn. R. 7090]
230.1	**Good Housekeeping**. [Minn. R. 7090]
230.2	The Permittee shall minimize or prevent stormwater from contacting traction sand storage and loading areas. The Permittee shall implement sediment removal practices to minimize the offsite transport of sanding material. [Minn. R. 7090]
231.1	**Inspections**. [Minn. R. 7090]
231.2	The Permittee shall inspect the following areas/activities: A. Storage areas for vehicles/equipment awaiting maintenance; B. Fueling areas; C. Indoor and outdoor vehicle/equipment maintenance areas; and D. Vehicle/equipment cleaning areas. [Minn. R. 7090]
231.3	In addition to the inspection requirements outlined in the Stormwater Control Measures section of this permit, the Permittee shall ensure that a total of two inspections occur during runoff events, with at least one inspection occurring during a snowmelt runoff event if possible. Each inspection must include a visual assessment of the runoff to identify any visible sheens or films that indicate the presence of oil or grease in the discharge. If sheens are present in stormwater discharges, implement corrective actions to prevent sheen and document those corrective actions in the SWPPP. [Minn. R. 7090]
232.1	**Preventive Maintenance**. [Minn. R. 7090]
232.2	The Permittee shall maintain all material storage vessels (e.g. used oil/oil filters, spent solvents, paint wastes, hydraulic fluids) to prevent contamination of stormwater, and plainly label the storage vessels. [Minn. R. 7090]
233.1	**Spills and Leaks**. [Minn. R. 7090]
233.2	The Permittee shall confine the storage of leaky or leak prone vehicles/equipment awaiting maintenance to designated areas. [Minn. R. 7090]
234.1	**Other Industry Specific Control Measures**. [Minn. R. 7090]
234.2	All petroleum bulk oil stations and terminals must comply with applicable State and Federal laws regulating large bulk fuel storage tanks, including the SPCC and provisions for secondary containment. The Permittee must obtain a separate permit with the MPCA for aboveground storage tanks with a capacity larger than 1.0 million gallons. Follow all rules and requirements pursuant to Minn. R. 7151.1200 concerning aboveground storage tanks, and Minn. R. 7150 regarding underground storage tanks. [Minn. R. 7090, Minn. R. 7150, Minn. R. 7151.1200]
235.1	**SWPPP Requirements**. [Minn. R. 7090]
235.2	In addition to the requirements in the Stormwater Pollution Prevention Plan section of this permit, the Permittee shall also comply with the following: A. **Facility Map**. The Permittee shall identify the following areas of the facility and indicate whether activities occurring there may come into contact with stormwater: i. Fueling stations; ii. Vehicle/equipment maintenance or cleaning areas; and iii. Storage areas for vehicle/equipment with actual or potential fluid leaks. B. **Potential Pollutant Sources**. The Permittee shall describe and assess the potential for the following facility activities and areas to contribute pollutants to stormwater discharges: i. On-site waste storage or disposal; ii. Dirt/gravel parking areas for vehicles awaiting maintenance; and iii. Fueling areas. [Minn. R. 7090]
236.1	**Monitoring and Reporting Requirements**. [Minn. R. 7090]
236.2	In accordance with the Benchmark Monitoring Requirements section of this permit, the Permittee shall monitor the applicable parameters in Table P-1 In Appendix B. [Minn. R. 7090]
237.1	**Use of Infiltration Systems and/or Industrial Stormwater Ponds for Stormwater Treatment and Disposal**. [Minn. R. 7090]
237.2	Sector P industrial facilities may use designed infiltration systems or industrial stormwater ponds for stormwater management. [Minn. R. 7090]

238.1	**Sector Q. Water Transportation**. [Minn. R. 7090]
239.1	**Authorized Stormwater Discharges**. [Minn. R. 7090]
239.2	These Sector Q requirements apply to stormwater discharges occurring from the industrial activity water transportation facilities, with the industrial activity codes in Appendix A. [Minn. R. 7090]
240.1	**Limitations on Authorization**. [Minn. R. 7090]
240.2	The Permittee cannot discharge the following under this permit: A. Bilge and ballast water; B. Sanitary wastes; C. Pressure wash water; and D. Cooling water originating from vessels. [Minn. R. 7090]
241.1	**Stormwater Controls**. [Minn. R. 7090]
242.1	**Employee Training**. [Minn. R. 7090]
242.2	The Permittee shall, as part of the employee training program, address the following activities: A. Used oil management; B. Spent solvent management; C. Disposal of spent abrasives; D. Fueling procedures; E. Painting and blasting procedures; and F. Used battery management. [Minn. R. 7090]
243.1	**Good Housekeeping**. [Minn. R. 7090]
243.2	The Permittee shall implement and describe a schedule for routine yard maintenance and cleanup. The Permittee shall regularly remove scrap metal, wood, plastic, miscellaneous trash, paper, glass, industrial scrap, insulation, welding rods, and packaging from the general yard area. [Minn. R. 7090]
243.3	The Permittee shall describe procedures for routinely maintaining and cleaning the drydock area to prevent or minimize pollutants in stormwater runoff. The Permittee shall address the cleaning of accessible areas of the drydock prior to flooding and following removal of the vessel and raising the dock. Include procedures for cleaning up oil, grease, and fuel spills occurring on the drydock. [Minn. R. 7090]
243.4	The Permittee shall regularly clean deposits of abrasive blasting debris and paint chips. [Minn. R. 7090]
244.1	**Inspections**. [Minn. R. 7090]
244.2	The Permittee shall inspect the following areas: A. Pressure washing area; B. Blasting, sanding, and painting areas; C. Engine maintenance and repair areas; D. Drydock area; and E. General yard area. [Minn. R. 7090]
244.3	In addition to the inspection requirements outlined in the Stormwater Control Measures section of this permit, the Permittee shall ensure that a total of two inspections occur during runoff events, with at least one inspection occurring during a snowmelt runoff event if possible. Each inspection must include a visual assessment of the runoff to identify any visible sheens or films that indicate the presence of oil or grease in the discharge. If sheens are present in stormwater discharges, implement corrective actions to prevent sheen and document those corrective actions in the SWPPP. [Minn. R. 7090]
245.1	**Preventive Maintenance**. [Minn. R. 7090]
245.2	The Permittee shall implement and describe measures to prevent spent abrasives, paint chips, and overspray from coming into contact with stormwater. The Permittee shall contain all blasting and painting activities or use other measures to prevent the discharge of the contaminants (e.g. hanging plastic barriers or tarpaulins during blasting or painting operations to contain debris). [Minn. R. 7090]
245.3	The Permittee shall implement and describe measures to prevent or minimize the contamination of stormwater from all areas used for engine maintenance and repair. [Minn. R. 7090]
245.4	The Permittee shall implement and describe measures to prevent or minimize the contamination of stormwater from

	material handling operations and areas (e.g. fueling, paint and solvent mixing, disposal of process wastewater streams from vessels). [Minn. R. 7090]
246.1	**Other Industry Specific Control Measures**. [Minn. R. 7090]
246.2	If the Permittee uses pressure washing to remove paint, dirt, marine growth, or other materials from vessels, those wastewater discharges may require a separate NPDES/SDS permit and does not have authorization under this permit. [Minn. R. 7090]
247.1	**SWPPP Requirements**. [Minn. R. 7090]
247.2	In addition to the requirements in the Stormwater Pollution Prevention Plan section of this permit, the Permittee shall also comply with the following: A. **Facility Map**. The Permittee shall identify where any of the following may come into contact with stormwater: i. Fueling; ii. Engine and vessel maintenance and repair; iii. Pressure washing; iv. Painting; v. Sanding; vi. Blasting; vii. Welding; viii. Metal fabrication; ix. Locations used for the treatment, storage, or disposal of wastes; and x. Liquid storage areas (e.g. paint, solvents, resins). B. **Potential Pollutant Sources**. The Permittee shall describe the following additional sources that have potential pollutants associated with them: i. Outdoor manufacturing or processing activities (e.g. welding, metal fabricating); and ii. Significant dust or particulate generating processes (e.g. abrasive blasting, sanding, and painting). [Minn. R. 7090]
248.1	**Monitoring and Reporting Requirements**. [Minn. R. 7090]
248.2	In accordance with the Benchmark Monitoring Requirements section of this permit, the Permittee shall monitor the applicable parameters in Table Q-1 in Appendix B. [Minn. R. 7090]
249.1	**Use of Infiltration Systems and/or Industrial Stormwater Ponds for Stormwater Treatment and Disposal**. [Minn. R. 7090]
249.2	Sector Q industrial facilities have authorization to use designed infiltration systems or industrial stormwater ponds for stormwater management. [Minn. R. 7090]
250.1	**Sector R. Ship and Boat Building and Repair Yards**. [Minn. R. 7090]
251.1	**Authorized Stormwater Discharges**. [Minn. R. 7090]
251.2	These Sector R requirements apply to stormwater discharges occurring from the industrial activity associated with ship and boat building and repair yards., with the industrial activity codes in Appendix A. [Minn. R. 7090]
252.1	**Limitations on Authorization**. [Minn. R. 7090]
252.2	The Permittee cannot discharge the following under this permit: A. Bilge and ballast water; B. Sanitary wastes; C. Pressure wash water; and D. Cooling water originating from vessels. [Minn. R. 7090]
253.1	**Stormwater Controls**. [Minn. R. 7090]
254.1	**Employee Training**. [Minn. R. 7090]
254.2	As part of the employee training program, the Permittee shall address the following activities: A. Used oil management; B. Spent solvent management; C. Disposal of spent abrasives; D. Fueling procedures; E. Painting and blasting procedures; and F. Used battery management. [Minn. R. 7090]
255.1	**Good Housekeeping**. [Minn. R. 7090]

255.2	The Permittee shall implement and describe a schedule for routine yard maintenance and cleanup. Regularly remove scrap metal, wood, plastic, miscellaneous trash, paper, glass, industrial scrap, insulation, welding rods, and packaging from the general yard area. [Minn. R. 7090]
255.3	The Permittee shall describe procedures for routinely maintaining and cleaning the drydock area to prevent or minimize pollutants in stormwater runoff. Address the cleaning of accessible areas of the drydock prior to flooding and following removal of the vessel and raising the dock. Include procedures for cleaning up oil, grease, and fuel spills occurring on the drydock. [Minn. R. 7090]
256.1	**Inspections**. [Minn. R. 7090]
256.2	The Permittee shall inspect the following areas: A. Pressure washing area; B. Blasting, sanding, and painting areas; C. Engine maintenance and repair areas; D. Drydock area; and E. General yard area. [Minn. R. 7090]
256.3	In addition to the inspection requirements outlined in the Stormwater Control Measures Section of this permit, the Permittee shall ensure that a total of two inspections occur during runoff events, with at least one inspection occurring during a snowmelt runoff event. Each inspection must include a visual assessment of the runoff to identify any visible sheens or films that indicate the presence of oil or grease in the discharge. If sheens are present in stormwater discharges, implement corrective actions to prevent sheen and document those corrective actions in the SWPPP. [Minn. R. 7090]
257.1	**Preventive Maintenance**. [Minn. R. 7090]
257.2	The Permittee shall implement and describe measures to prevent spent abrasives, paint chips, and overspray from coming into contact with stormwater. The Permittee shall contain all blasting and painting activities, or use other measures to prevent the discharge of the contaminants (e.g. hanging plastic barriers or tarpaulins during blasting or painting operations to contain debris). The Permittee shall also regularly clean deposits of abrasive blasting debris and paint chips. [Minn. R. 7090]
257.3	The Permittee shall implement and describe measures to prevent or minimize the contamination of stormwater from all engine maintenance and repair areas. [Minn. R. 7090]
258.1	**SWPPP Requirements**. [Minn. R. 7090]
258.2	In addition to the requirements in the Stormwater Pollution Prevention Plan section of this permit, the Permittee shall also comply with the following: A. **Facility Map**. The Permittee shall identify where the following may come into contact with stormwater: i. Fueling; ii. Engine maintenance or repair; iii. Vessel maintenance or repair; iv. Pressure washing; v. Painting; vi. Sanding; vii. Blasting; viii. Welding; ix. Metal fabrication; x. Liquid storage areas (e.g. paint, solvents, resins); and xi. Blasting media, aluminum, steel, and scrap iron storage areas. [Minn. R. 7090]
259.1	**Potential Pollutant Sources**. [Minn. R. 7090]
259.2	The Permittee shall describe the following additional sources that have potential pollutants associated with them: A. Outdoor manufacturing or processing activities (e.g. welding, metal fabricating); and B. Significant dust or particulate generating processes (e.g. abrasive blasting, sanding, and painting). [Minn. R. 7090]
260.1	**Monitoring and Reporting Requirements**. [Minn. R. 7090]
260.2	In accordance with the Benchmark Monitoring Requirements section of this permit, the Permittee shall monitor the applicable parameters in Table R-1 in Appendix B. [Minn. R. 7090]
261.1	**Use of Infiltration Systems and/or Industrial Stormwater Ponds for Stormwater Treatment and Disposal**. [Minn. R. 7090]

261.2	Sector R industrial facilities have authorization to use designed infiltration systems industrial stormwater ponds for stormwater management. [Minn. R. 7090]
262.1	**Sector S. Air Transportation**. [Minn. R. 7090]
263.1	**Authorized Stormwater Discharges**. [Minn. R. 7090]
263.2	These Sector S requirements apply to stormwater discharges occurring from the industrial activity from air transportation facilities, with the industrial activity codes in Appendix A. [Minn. R. 7090]
264.1	**Limitations on Authorization**. [Minn. R. 7090]
264.2	Only those portions of the air transportation facility with vehicle maintenance (including vehicle rehabilitation, mechanical repairs, painting, fueling, and lubrication), equipment cleaning operations, or deicing operations are industrial activities under this permit, unless other portions of the facility include industrial activities described in 40 C.F.R. 122.26(b)(14)(i-ix and xi), which are also regulated under this permit. In this case, these activities are co-located with the air transportation activities and the appropriate sector requirements for these activities also apply. [Minn. R. 7090]
264.3	This permit does not authorize the discharge of aircraft, ground vehicle, runway and equipment wash water, or the dry weather discharge of deicing chemicals. Such discharges may require a separate NPDES/SDS permit. [Minn. R. 7090]
265.1	**Sector-Specific Definitions**. [Minn. R. 7090]
265.2	"Airport Authority" means a single management organization of the airport (usually a public entity). [Minn. R. 7090]
265.3	"Deicing" means both deicing (removing frost, snow, or ice) and anti-icing (preventing accumulation of frost, snow, or ice) activities, unless the Permittee chooses to specifically mention anti-icing or deicing activities. [Minn. R. 7090]
265.4	"Deicing Season" means the average seasonal timeframe (e.g. December- February, October - March, etc.) during which deicing activities occur at the facility. The Permittee shall identify the average deicing season length in the facility's SWPPP. [Minn. R. 7090]
265.5	"Primary Airport" means, as described in 49 USC 47102, a commercial service airport the Secretary determines to have more than 10,000 passenger boardings each year. [Minn. R. 7090]
265.6	"Tenant" means airline carriers, fixed-base operators (e.g. fueling companies and maintenance shops), and others that have leases/agreements to conduct business on airport property. Tenants of the airport that conduct industrial activities as described above, or as described anywhere in 40 C.F.R. 122.26(b)(14), are required to apply for authorization under an NPDES/SDS stormwater permit. [Minn. R. 7090]
266.1	**Stormwater Controls**. [Minn. R. 7090]
267.1	**Employee Training**. [Minn. R. 7090]
267.2	The Permittee shall address the following in the employee training program: A. Proper handling of deicing materials and fuels; B. Spill and leak prevention; and C. Proper recordkeeping of storage and application of deicing fluids. [Minn. R. 7090]
268.1	**Inspections**. [Minn. R. 7090]
268.2	In addition to the inspection requirements outlined in the Stormwater Control Measures section of this permit, the Permittee shall conduct two inspections per month with no less than 10 days between inspections during the deicing season, as specified in the Permittee's SWPPP. [Minn. R. 7090]
268.3	In addition to the inspection requirements outlined in the Stormwater Control Measures section of this permit, the Permittee shall ensure that a total of two of the inspections occur during runoff events, with at least one inspection occurring during a snowmelt runoff event if possible. Each inspection must include a visual assessment of the runoff to identify any visible sheens or films that indicate the presence of oil or grease in the discharge. If sheens are present in stormwater discharges, implement corrective actions to prevent sheen and document those corrective actions in the SWPPP. [Minn. R. 7090]
269.1	**Preventive Maintenance**. [Minn. R. 7090]
269.2	The Permittee shall evaluate whether over-application of deicing chemicals on runways occurs by analyzing and adjusting application rates as necessary, consistent with considerations and requirements of flight safety. The personnel most familiar with the particular aircraft and flight operations in question shall carry out the evaluation. [Minn. R. 7090]
269.3	The Permittee shall describe and implement measures that prevent or minimize the contamination of stormwater runoff

	from all areas used for aircraft, ground vehicle, and equipment maintenance (including the maintenance the Permittee conducts on the terminal apron and in dedicated hangers). [Minn. R. 7090]
269.4	The Permittee shall describe and implement measures that prevent or minimize the contamination of stormwater with fuels and fuel servicing activities or other operations the Permittee conducts in support of the airport fuel system. [Minn. R. 7090]
269.5	The Permittee shall store all aircraft, ground vehicles and equipment awaiting maintenance in designated areas only. The Permittee shall implement BMPs in these designated areas to prevent or minimize contact of stormwater with materials exposed from vehicles awaiting maintenance. [Minn. R. 7090]
270.1	**Management of Runoff**. [Minn. R. 7090]
270.2	The Permittee shall describe and implement a program to control or manage contaminated runoff to reduce the amount of pollutants discharging from the facility. Describe the controls the Permittee uses for collecting, containing or disposal of contaminated snow or contaminated snowmelt water. [Minn. R. 7090]
271.1	**SWPPP Requirements**. [Minn. R. 7090]
271.2	In addition to requirements in the Stormwater Pollution Prevention Plan section of this permit, the Permittee shall meet the following sector-specific requirements for an air transportation facility: A. **Facility Map**. The Permittee shall identify the following areas of the facility and indicate whether activities occurring are or may come into contact with stormwater: i. Aircraft and runway deicing operations; ii. Fueling stations; iii. Aircraft; iv. Ground vehicle and equipment maintenance/cleaning areas; and v. Storage areas for aircraft, ground vehicles, and equipment awaiting maintenance. Where applicable, Permittees meeting the definition of tenant, above, shall create a SWPPP specific to the tenant's own operations for stormwater discharges associated with the leased property/space. The individual tenant's SWPPP must reference the airport authority's SWPPP with coordination between the two entities. Conversely, the airport authority's SWPPP must reference the tenant's SWPPP with coordination between the two entities. [Minn. R. 7090]
272.1	**Potential Pollutant Sources**. [Minn. R. 7090]
272.2	The Permittee shall identify the potential for the following activities and facility areas to contribute pollutants to stormwater discharges: A. Aircraft; B. Runways; C. Ground vehicle and equipment maintenance and cleaning; and D. Aircraft and runway deicing operations (including apron and centralized aircraft deicing stations, runways, taxiways, and ramps). [Minn. R. 7090]
272.3	If the Permittee uses deicing chemicals or pesticides, the Permittee shall maintain the records of the types the Permittee uses, including the Safety Data Sheets (SDS) and the monthly quantities. This includes all deicing chemicals, not just glycols and urea (e.g. potassium acetate). All tenants that conduct these activities shall provide the above information in the in their SWPPP. Update and attach information as necessary to maintain current records. [Minn. R. 7090]
273.1	**Description of Stormwater Controls**. [Minn. R. 7090]
273.2	The Permittee shall clean equipment only in the areas the Permittee identifies in the SWPPP and clearly designate these areas using ground signage or other appropriate means. [Minn. R. 7090]
274.1	**Monitoring and Reporting Requirements**. [Minn. R. 7090]
274.2	In addition to the Benchmark Monitoring Requirements section of this permit, the Permittee shall collect two of the facility's four required samples for the applicable parameters during periods that are during the airport's deicing season the Permittee specifies. [Minn. R. 7090]
274.3	In accordance with monitoring requirements of the Effluent Monitoring Requirement section of this permit, the Permittee shall monitor the applicable parameters in Table S-1 in Appendix B. [Minn. R. 7090]
275.1	**Use of Infiltration Systems and/or Industrial Stormwater Ponds for Stormwater Treatment and Disposal**. [Minn. R. 7090]
276.1	**Industrial Stormwater Ponds**. [Minn. R. 7090]

276.2	The Permittee of a Sector S industrial facility that does not conduct deicing activities, as defined above, has authorization to use industrial stormwater ponds for stormwater management without additional restrictions. [Minn. R. 7090]
276.3	The Permittee of a Sector S industrial facility that conducts deicing activities, as defined above, has authorization to use industrial stormwater ponds for stormwater management provided that any industrial stormwater pond constructed after April 5, 2010, permit meets the following design criteria: A. Line the industrial stormwater pond with a synthetic liner that is chemically compatible with materials expected to enter the pond. Design the pond to restrict infiltration to less than 500 gallons per acre per day. The pond must be Ultraviolet (UV) stable; and B. Design the industrial stormwater pond in accordance with accepted engineering practices identified in the latest version of the MPCAs "Recommended Pond Design Criteria". Any Permittee required to comply with this part does not have authorization to utilize the benchmark monitoring waiver. [Minn. R. 7090]
277.1	**Infiltration Systems**. [Minn. R. 7090]
277.2	The Permittee of a Sector S industrial facility that does not conduct deicing activities, as defined above, has authorization to use a designed infiltration system for industrial stormwater management and is not required to comply with the requirement below. [Minn. R. 7090]
277.3	The Permittee of a Sector S industrial facility that conducts deicing activities, as defined above, has authorization to use a designed infiltration system for stormwater management, implemented prior to April 5, 2010, provided the Permittee complies with the following requirements: A. The Permittee shall conduct benchmark monitoring in accordance with the terms and conditions of this permit for all industrial stormwater prior to infiltration. However, any Permittee required to comply with this part that is using a designed infiltration system to manage industrial stormwater does not have authorization to utilize the benchmark monitoring waiver; and B. If the Permittee has a designed infiltration system operating prior to April 5, 2010, the Permittee has authorization to continue using that device. However, on or after April 5, 2010, the Permittee does not have authorization to construct new infiltration systems, expand infiltration activities or practices that result in infiltration, or expand volume of infiltration. [Minn. R. 7090]
278.1	**Sector T. Treatment Works**. [Minn. R. 7090]
279.1	**Authorized Stormwater Discharges**. [Minn. R. 7090]
279.2	These Sector T requirements apply to stormwater discharges occurring from the industrial activity treatment works. [Minn. R. 7090]
280.1	**Limitations on Authorization**. [Minn. R. 7090]
280.2	The Permittee cannot discharge the following under this permit: A. Sanitary and industrial wastewater; B. Equipment and vehicle wash water; and C. Discharges from farmlands, domestic gardens, or lands used for sludge management where sludge is beneficially reused and which are not physically located within the facility, or areas that are in compliance with Section 405 of the CWA. [Minn. R. 7090]
281.1	**Stormwater Controls**. [Minn. R. 7090]
282.1	**Employee Training**. [Minn. R. 7090]
282.2	The Permittee shall address the following during employee training: A. Petroleum product management; B. Process chemical management; C. Fueling procedures; and D. Proper procedures for using fertilizer, herbicides, and pesticides. [Minn. R. 7090]
283.1	**Inspections**. [Minn. R. 7090]
283.2	The Permittee shall include the following areas in all inspections: A. Access roads and rail lines; B. Grit, screenings, and other solids handling;

	C. Sludge drying beds; D. Dried sludge piles; E. Compost piles; and F. Septage or hauled waste receiving stations. [Minn. R. 7090]
284.1	**SWPPP Requirements**. [Minn. R. 7090]
284.2	In addition to the requirements in the Stormwater Pollution Prevention Plan section of this permit, the Permittee shall also comply with the following: A. **Facility Map**. The Permittee shall identify where any of the following may come into contact with stormwater: i. Handling, storage, or disposal areas for grit, screenings, and other solids; ii. Sludge drying beds; iii. Dried sludge piles; iv. Compost piles; v. Septage or hauled waste receiving station; and vi. Storage areas for process chemicals, petroleum products, solvents, fertilizers, herbicides, and pesticides. [Minn. R. 7090]
285.1	**Potential Pollutant Sources**. [Minn. R. 7090]
285.2	The Permittee shall describe the following additional sources that have potential pollutants associated with them: A. Grit, screenings, and other solids handling; B. Sludge drying beds; C. Dried sludge piles; D. Compost piles; E. Septage or hauled waste receiving station; and F. Access roads and rail lines. [Minn. R. 7090]
286.1	**Monitoring and Reporting Requirements**. [Minn. R. 7090]
286.2	In accordance with the Benchmark Monitoring Requirements section of this permit, the Permittee shall monitor the applicable parameters in Table T-1in Appendix B. [Minn. R. 7090]
287.1	**Use of Infiltration Systems and/or Industrial Stormwater Ponds for Stormwater Treatment and Disposal**. [Minn. R. 7090]
287.2	Sector T industrial facilities have authorization to use designed infiltration systems or industrial stormwater ponds for stormwater management. [Minn. R. 7090]
288.1	**Sector U. Food and Kindred Products**. [Minn. R. 7090]
289.1	**Authorized Stormwater Discharges**. [Minn. R. 7090]
289.2	These Sector U requirements apply to stormwater discharges occurring from the industrial activity from food and kindred products facilities, with the industrial activity codes in Appendix A. [Minn. R. 7090]
290.1	**Limitations on Authorization**. [Minn. R. 7090]
290.2	The Permittee cannot discharge the following under this permit: A. Stormwater discharges co-mingled with wastewaters or sources of non-stormwater, including those from industrial plant yards; material handling sites; refuse sites; sugar beet piling sites; sites used for application or disposal of process wastewaters; sites used for storage and maintenance of material handling equipment; sites used for residential wastewater treatment, storage, or disposal; shipping and receiving areas; manufacturing buildings; and storage areas for raw material and intermediate and finished products. This includes areas where industrial activity took place in the past and significant materials remain. Material handling activities include the storage, loading and unloading, transportation, or conveyance of any raw material, intermediate product, finished product, by-product, or waste product; and B. Discharges subject to operations and process requirements of the Authorization section of this permit, which include discharges containing boiler blowdown, cooling tower overflow and blowdown, ammonia refrigeration purging, and vehicle washing and clean-out operations. i. The Permittee shall treat wastewater they generate from these areas at the facility's wastewater treatment facility in accordance with the facility's NPDES/SDS permit, or by discharge to a publicly owned treatment works (POTW), with authorization by the POTW. The Permittee has authorization to discharge stormwater from these areas where no mixing of stormwater with wastewater or non-stormwater occurs, and where these areas do not, at any time, generate wastewater or non-stormwater. [Minn. R. 7090]

291.1	**Stormwater Controls**. [Minn. R. 7090]
292.1	**Employee Training**. [Minn. R. 7090]
292.2	The Permittee shall include the following activities as appropriate: A. Used oil and spent solvent management; B. Segregation of organic materials, raw materials, and products from contact with stormwater and precipitation; and C. Pest control. [Minn. R. 7090]
293.1	**Inspections**. [Minn. R. 7090]
293.2	The Permittee shall inspect the following areas where the potential for exposure to stormwater exists: A. Waste management units; B. Vents and stacks associated with industrial activities; C. Spoiled product and broken product container holding areas; D. Animal holding pens; E. Staging areas; and F. Air pollution control equipment. [Minn. R. 7090]
293.3	In addition to the inspection requirements outlined in the Stormwater Control Measures section of this permit, the Permittee shall ensure that a total of two inspections occur during runoff events, with at least one inspection occurring during a snowmelt runoff event if possible. Each inspection must include a visual assessment of the runoff to identify any visible sheens or films that indicate the presence of oil or grease in the discharge. If sheens are present in stormwater discharges, implement corrective actions to prevent sheen and document those corrective actions in the SWPPP. [Minn. R. 7090]
294.1	**SWPPP Requirements**. [Minn. R. 7090]
294.2	In addition to the requirements in the Stormwater Pollution Prevention Plan section of this permit, the Permittee shall also comply with the following: A. **Facility Map**. The Permittee shall identify the locations of the following activities if they are exposed to stormwater: i. Vents and stacks from cooking, drying, and similar operations; ii. Dry product vacuum transfer lines; iii. Animal holding pens; and iv. Spoiled product and broken product container storage areas. [Minn. R. 7090]
295.1	**Potential Pollutant Sources**. [Minn. R. 7090]
295.2	The Permittee shall describe, in addition to food and kindred products processing-related industrial activities, application and storage of pest control chemicals (e.g. rodenticides, insecticides, fungicides) the Permittee uses on plant grounds. [Minn. R. 7090]
296.1	**Monitoring and Reporting Requirements**. [Minn. R. 7090]
296.2	In accordance with the Benchmark Monitoring Requirements section of this permit, the Permittee shall monitor the applicable parameters in Table U-1 in Appendix B. [Minn. R. 7090]
297.1	**Use of Infiltration Systems and/or Industrial Stormwater Ponds for Stormwater Treatment and Disposal**. [Minn. R. 7090]
297.2	Sector U industrial facilities have authorization to use designed infiltration systems or industrial stormwater ponds for stormwater management. [Minn. R. 7090]
298.1	**Sector V. Textile Mills, Apparel, and Other Fabric Products Manufacturing**. [Minn. R. 7090]
299.1	**Authorized Stormwater Discharges**. [Minn. R. 7090]
299.2	These Sector V requirements apply to stormwater discharges occurring from the industrial activity from textile mills, apparel, and other fabric product manufacturing facilities, with the industrial activity codes in listed in Appendix A. [Minn. R. 7090]
300.1	**Limitations on Authorization**. [Minn. R. 7090]
300.2	Under this permit, the Permittee cannot discharge wastewater (e.g. wastewater resulting from wet processing or from any processes relating to the production process), reused or recycled water, and waters the Permittee uses in cooling towers under this permit. [Minn. R. 7090]
301.1	**Stormwater Controls**. [Minn. R. 7090]

302.1	**Employee Training**. [Minn. R. 7090]
302.2	As part of the employee training program, the Permittee shall address the following activities: A. Use of reused and recycled waters; B. Solvents management; C. Proper disposal of dyes; and D. Proper disposal of petroleum products and spent lubricants. [Minn. R. 7090]
303.1	**Inspections**. [Minn. R. 7090]
303.2	In addition to the inspection requirements outlined in the Stormwater Control Measure section of this permit, the Permittee shall ensure that a total of two inspections occur during runoff events, with at least one inspection occurring during a snowmelt runoff event if possible. Each inspection must include a visual assessment of the runoff to identify any visible sheens or films that indicate the presence of oil or grease in the discharge. If sheens are present in stormwater discharges, implement corrective actions to prevent sheen and document those corrective actions in the SWPPP. [Minn. R. 7090]
304.1	**Preventive Maintenance**. [Minn. R. 7090]
304.2	The Permittee shall describe and implement measures that prevent or minimize contamination of stormwater from material handling operations by using the following: A. Spill and overflow protection; and B. Covering or enclosing areas where the transfer of materials occurs. The Permittee shall address the replacement or repair of leaking connections, valves, transfer lines, and pipes that carry chemicals, dyes, or wastewater. [Minn. R. 7090]
305.1	**SWPPP Requirements**. [Minn. R. 7090]
305.2	In addition to the requirements in the Stormwater Pollution Prevention Plan section of this permit, the Permittee shall also comply with the following: A. **Potential Pollutant Sources**. The Permittee shall describe the following additional sources and activities that have potential pollutants associated with them: i. Backwinding; ii. Beaming; iii. Bleaching; iv. Backing bonding; v. Carbonizing; vi. Carding; vii. Cut and sew operations; viii. Desizing; ix. Drawing; x. Dyeing locking; xi. Fulling, knitting; xii. Mercerizing; xiii. Opening; xiv. Packing; xv. Plying; xvi. Scouring; xvii. Slashing; xviii. Spinning; xix. Synthetic-felt processing; xx. Textile waste processing; xxi. Tufting; xxii. Turning; xxiii. Weaving; xxiv. Web forming; xxv. Winging; xxvi. Yarn spinning; and xxvii. Yarn texturing. [Minn. R. 7090]
306.1	**Monitoring and Reporting Requirements**. [Minn. R. 7090]

306.2	In accordance with the Benchmark Monitoring Requirements section of this permit, the Permittee shall monitor the applicable parameters in Table V-1 in Appendix B. [Minn. R. 7090]
307.1	**Use of Infiltration Systems and/or Industrial Stormwater Ponds for Stormwater Treatment and Disposal**. [Minn. R. 7090]
307.2	Sector V industrial facilities have authorization to use designed infiltration systems or industrial stormwater ponds for stormwater management. [Minn. R. 7090]
308.1	**Sector W. Furniture and Fixtures**. [Minn. R. 7090]
309.1	**Authorized Stormwater Discharges**. [Minn. R. 7090]
309.2	These Sector W requirements apply to stormwater discharges occurring from the industrial activity from furniture and fixtures facilities, and other fabric product manufacturing facilities, with the industrial activity codes in Appendix A. [Minn. R. 7090]
310.1	**Monitoring and Reporting Requirements**. [Minn. R. 7090]
310.2	In accordance with the Benchmark Monitoring Requirements section of this permit, the Permittee shall monitor the applicable parameters in Table W-1 in Appendix B. [Minn. R. 7090]
311.1	**Use of Infiltration Systems and/or Industrial Stormwater Ponds for Stormwater Treatment and Disposal**. [Minn. R. 7090]
311.2	Sector W industrial facilities have authorization to use designed infiltration systems or industrial stormwater ponds for stormwater management. See the Benchmark Monitoring Waiver for Industrial Stormwater Infiltration and Ponding section of this permit for additional for requirements. [Minn. R. 7090]
312.1	**Sector X. Printing and Publishing**. [Minn. R. 7090]
313.1	**Authorized Stormwater Discharges**. [Minn. R. 7090]
313.2	These Sector X requirements apply to stormwater discharges occurring from the industrial activity from printing and publishing facilities, with the industrial activity codes in Appendix A. [Minn. R. 7090]
314.1	**Stormwater Controls**. [Minn. R. 7090]
315.1	**Preventive Maintenance**. [Minn. R. 7090]
315.2	The Permittee shall describe and implement measures that prevent or minimize contamination of stormwater runoff from blanket wash areas and mixing solvent areas. The Permittee shall have BMPs that address the replacement or repair of leaking connections, valves, transfer lines, and pipes that may carry chemicals or wastewater. [Minn. R. 7090]
316.1	**SWPPP Requirements**. [Minn. R. 7090]
316.2	In addition to the requirements in the Stormwater Pollution Prevention Plan section of this permit, the Permittee shall also comply with the following: A. **Potential Pollutant Sources**. The Permittee shall describe the following additional sources that have potential pollutants associated with them: i. Significant dust or particulate generating processes, and on-site waste disposal practices (e.g. blanket wash); and ii. The Permittee shall also identify the pollutant parameter (e.g. oil and grease, scrap metal) associated with each pollutant source. [Minn. R. 7090]
317.1	**Monitoring and Reporting Requirements**. [Minn. R. 7090]
317.2	In accordance with the Benchmark Monitoring Requirements section of this permit, the Permittee shall monitor the applicable parameters in Table X-1 in Appendix B. [Minn. R. 7090]
318.1	**Use of Infiltration Systems and/or Industrial Stormwater Ponds for Stormwater Treatment and Disposal**. [Minn. R. 7090]
318.2	Sector X industrial facilities have authorization to use designed infiltration systems or industrial stormwater ponds for stormwater management. [Minn. R. 7090]
319.1	**Sector Y. Rubber, Miscellaneous Plastic Products, and Miscellaneous Manufacturing Industries**. [Minn. R. 7090]
320.1	**Authorized Stormwater Discharges**. [Minn. R. 7090]
320.2	These Sector Y requirements apply to stormwater discharges occurring from the industrial activity from rubber, miscellaneous plastic products, and miscellaneous manufacturing facilities, with the industrial activity codes in Appendix A. [Minn. R. 7090]
321.1	**Stormwater Controls**. [Minn. R. 7090]
322.1	**Maintenance Requirements**. [Minn. R. 7090]

322.2	The Permittee shall describe and implement specific controls to minimize contact of zinc with stormwater discharges by: A. Using chemicals purchased in pre-weighed, sealed polyethylene bags; B. Storing in-use materials in sealable containers; C. Ensuring an airspace between the container and the cover to minimize "puffing" losses when the Permittee opens the container; D. Using automatic dispensing and weighing equipment; and E. Replacing or repairing improperly operating dust collectors or baghouses. [Minn. R. 7090]
322.3	The Permittee shall describe and implement specific controls to minimize contact of plastic resin pellets with stormwater discharges. [Minn. R. 7090]
323.1	**SWPPP Requirements**. [Minn. R. 7090]
323.2	In addition to the requirements in the Stormwater Pollution Prevention Plan section of this permit, the Permittee shall also comply with the following: A. **Potential Pollutant Sources**. The Permittee shall review the use of zinc at the facility and the possible pathways through which zinc may comingle with stormwater. The Permittee shall list the materials and activities at the facility that are sources of zinc. [Minn. R. 7090]
324.1	**Monitoring and Reporting Requirements**. [Minn. R. 7090]
324.2	In accordance with the Benchmark Monitoring Requirements section of this permit, the Permittee shall monitor the applicable parameters in Table Y-1 in Appendix B. [Minn. R. 7090]
325.1	**Use of Infiltration Systems and/or Industrial Stormwater Ponds for Stormwater Treatment and Disposal**. [Minn. R. 7090]
325.2	Sector Y industrial facilities have authorization to use designed infiltration systems or industrial stormwater ponds for stormwater management. [Minn. R. 7090]
326.1	**Sector Z. Leather Tanning and Finishing**. [Minn. R. 7090]
327.1	**Authorized Stormwater Discharges**. [Minn. R. 7090]
327.2	These Sector Z requirements apply to stormwater discharges occurring from the industrial activity from leather tanning and finishing facilities, with the industrial activity codes in Appendix A. [Minn. R. 7090]
328.1	**Stormwater Controls**. [Minn. R. 7090]
329.1	**Preventive Maintenance**. [Minn. R. 7090]
329.2	The Permittee shall store pallets and bales of raw, semi-processed, or finished tannery by-products (e.g. splits, trimmings, shavings) indoors or the Permittee shall cover these materials by polyethylene wrapping, tarpaulins, or store under a roof. [Minn. R. 7090]
329.3	The Permittee shall store materials on an impermeable surface and enclose or put berms (or equivalent measures) around these areas, to the extent feasible. [Minn. R. 7090]
329.4	The Permittee shall describe and implement measures that prevent or minimize contamination of stormwater runoff with leather dust from buffing and shaving areas. The Permittee shall use dust collection systems and assure that they are operating properly. [Minn. R. 7090]
330.1	**SWPPP Requirements**. [Minn. R. 7090]
330.2	In addition to the requirements of the Stormwater Pollution Prevention Plan section in this permit, the Permittee shall also comply with the following: A. **Facility Map**. The Permittee shall identify on the facility map where any of the following may come into contact with stormwater: i. Processing and storage areas of the beamhouse; ii. Tanyard; iii. Re-tan wet finishing and dry finishing operations; iv. Haul roads and access roads; and v. Rail spurs. [Minn. R. 7090]
331.1	**Potential Pollutant Sources**. [Minn. R. 7090]
331.2	The Permittee shall describe the following additional sources that have potential pollutants associated with them: A. Temporary or permanent storage of fresh and brine-cured hides; B. Extraneous hide substances and hair;

	C. Leather dust, scraps, trimmings, and shavings; D. Chemical drums, bags, containers; E. Empty chemical containers and bags; F. Spent solvents; G. Floor sweepings and washings; H. Refuse, waste piles, and sludge; and I. Significant dust/particulate generating processes (e.g. buffing). [Minn. R. 7090]
332.1	**Monitoring and Reporting Requirements**. [Minn. R. 7090]
332.2	In accordance with the Benchmark Monitoring Requirements section of this permit, the Permittee shall monitor the applicable parameters in Table Z-1 in Appendix B. [Minn. R. 7090]
333.1	**Use of Infiltration Systems and/or Industrial Stormwater Ponds for Stormwater Treatment and Disposal**. [Minn. R. 7090]
333.2	Sector Z industrial facilities have authorization to use designed infiltration systems or industrial stormwater ponds for stormwater management. [Minn. R. 7090]
334.1	**Sector AA. Fabricated Metal Products**. [Minn. R. 7090]
335.1	**Authorized Stormwater Discharges**. [Minn. R. 7090]
335.2	These Sector AA requirements apply to stormwater discharges occurring from the industrial activity from fabricated metal products facilities, with the industrial activity codes in Appendix A. [Minn. R. 7090]
336.1	**Stormwater Controls**. [Minn. R. 7090]
337.1	**Good Housekeeping**. [Minn. R. 7090]
337.2	The Permittee shall describe and implement measures for controlling or recovering scrap metals, fines, and metal dust. The Permittee shall include measures for containing materials within storage and handling areas. [Minn. R. 7090]
337.3	The Permittee shall describe and implement measures for storage of metal working fluids. [Minn. R. 7090]
338.1	**Inspections**. [Minn. R. 7090]
338.2	The Permittee shall inspect the following areas where the potential for exposure to stormwater exists: A. Areas associated with spent solvents; B. Chemical storage areas; and C. Outdoor paint areas. [Minn. R. 7090]
338.3	In addition to the inspection requirements outlined in the Stormwater Control Measures section of this permit, the Permittee shall ensure that a total of two inspections occur during runoff events, with at least one inspection occurring during a snowmelt runoff event if possible. Each inspection must include a visual assessment of the runoff to identify any visible sheens or films that indicate the presence of oil or grease in the discharge. If sheens are present in stormwater discharges, implement corrective actions to prevent sheen and document those corrective actions in the SWPPP. [Minn. R. 7090]
339.1	**Preventive Maintenance**. [Minn. R. 7090]
339.2	The Permittee shall describe and implement measures to prevent or minimize exposure of paint and painting equipment to stormwater. [Minn. R. 7090]
340.1	**Spills and Leaks**. [Minn. R. 7090]
340.2	The Permittee shall describe and implement measures to control and clean up spills of solvents and other liquid cleaners, control sand buildup and disbursement from sandblasting operations, and prevent exposure of recyclable wastes including rinse waters. [Minn. R. 7090]
340.3	The Permittee shall use monitoring equipment or other devices to detect and control leaks and overflows of lubricating oil and hydraulic fluid. The Permittee shall install perimeter controls or equivalent measures. [Minn. R. 7090]
341.1	**SWPPP Requirements**. [Minn. R. 7090]
341.2	In addition to the requirements in the Stormwater Pollution Prevention Plan section of this permit, the Permittee shall also comply with the following: A. **Facility Map**. The Permittee shall identify where any of the following may come into contact with stormwater: i. Raw metal storage areas; ii. Finished metal storage areas;

	iii. Scrap disposal collection sites; iv. Retention and detention basins; v. Temporary and permanent diversion dikes or berms; vi. Right-of-way or perimeter diversion devices; vii. Sediment traps and barriers; viii. Processing areas, including outdoor painting areas; ix. Wood preparation; x. Recycling; and xi. Raw material storage. [Minn. R. 7090]
342.1	**Potential Pollutant Sources**. [Minn. R. 7090]
342.2	The Permittee shall describe the following additional sources that have potential pollutants associated with them. Potential pollutants include chromium, zinc, lubricating oil, solvents, aluminum, oil and grease, methyl ethyl ketone, steel, and related materials: A. Operations for paints, chemicals, and scrap metals; B. Outdoor manufacturing or processing activities such as grinding, cutting, degreasing, buffing, and brazing; and C. On-site waste disposal practices for spent solvents, sludge, pickling baths, shavings, ingot pieces, and refuse and waste piles. [Minn. R. 7090]
343.1	**Monitoring and Reporting Requirements**. [Minn. R. 7090]
343.2	In accordance with the Benchmark Monitoring Requirements section of this permit, the Permittee shall monitor the applicable parameters in Table AA-1 in Appendix B. [Minn. R. 7090]
344.1	**Use of Infiltration Systems and/or Industrial Stormwater Ponds for Stormwater Treatment and Disposal**. [Minn. R. 7090]
344.2	Sector AA industrial facilities have authorization to use designed infiltration systems or industrial stormwater ponds for stormwater management. [Minn. R. 7090]
345.1	**Sector AB. Transportation Equipment and Industrial or Commercial Machinery**. [Minn. R. 7090]
346.1	**Authorized Stormwater Discharges**. [Minn. R. 7090]
346.2	These Sector AB requirements apply to stormwater discharges occurring from the industrial activity from transportation equipment and industrial or commercial machinery facilities, with the industrial activity codes in Appendix A. [Minn. R. 7090]
347.1	**Stormwater Controls**. [Minn. R. 7090]
348.1	**Inspections**. [Minn. R. 7090]
348.2	In addition to the inspection requirements outlined in Stormwater Control Measures section of this permit, the Permittee shall ensure that a total of two inspections occur during runoff events, with at least one inspection occurring during a snowmelt runoff event if possible. Each inspection must include a visual assessment of the runoff to identify any visible sheens or films that indicate the presence of oil or grease in the discharge. If sheens are present in stormwater discharges, implement corrective actions to prevent sheen and document those corrective actions in the SWPPP. [Minn. R. 7090]
349.1	**SWPPP Requirements**. [Minn. R. 7090]
349.2	In addition to the requirements in the Stormwater Pollution Prevention Plan section of this permit, the Permittee shall also comply with the following: A. **Facility Map**. The Permittee shall identify where any vents and stacks from metal processing and similar operations come into contact with stormwater. [Minn. R. 7090]
350.1	**Monitoring and Reporting Requirements**. [Minn. R. 7090]
350.2	In accordance with the Benchmark Monitoring Requirements section of this permit, the Permittee shall monitor the applicable parameters in Table AB-1 in Appendix B. [Minn. R. 7090]
351.1	**Use of Infiltration Systems and/or Industrial Stormwater Ponds for Stormwater Treatment and Disposal**. [Minn. R. 7090]
351.2	Sector AB industrial facilities have authorization to use designed infiltration systems or industrial stormwater ponds for stormwater management. [Minn. R. 7090]
352.1	**Sector AC. Electronic and Electrical Equipment and Components, Photographic and Optical Goods**. [Minn. R. 7090]
353.1	**Authorized Stormwater Discharges**. [Minn. R. 7090]

353.2	These Sector AC requirements apply to stormwater discharges occurring from facilities that manufacture electronic and electrical equipment and components and photographic and optical goods, with the industrial activity codes in Appendix A. [Minn. R. 7090]
354.1	**SWPPP Requirements**. [Minn. R. 7090]
354.2	In addition to the requirements in the Stormwater Pollution Prevention Plan section of this permit, the Permittee shall also comply with the following: A. **Facility Map**. The Permittee shall identify where any of the following may come into contact with stormwater: i. Finished metal storage areas; ii. Scrap disposal collection on-site; iii. Retention and detention basins; iv. Temporary and permanent diversion dikes or berms; v. Right-of-way or perimeter diversion devices; vi. Sediment traps and barriers; vii. Processing areas, including outdoor painting areas; and viii. Recycling areas. [Minn. R. 7090]
355.1	**Monitoring and Reporting Requirements**. [Minn. R. 7090]
355.2	In accordance with the Benchmark Monitoring Requirements section of this permit, the Permittee shall monitor the applicable parameters in Table AC-1 in Appendix B. [Minn. R. 7090]
356.1	**Use of Infiltration Systems and/or Industrial Stormwater Ponds for Stormwater Treatment and Disposal**. [Minn. R. 7090]
356.2	Sector AC industrial facilities have authorization to use designed infiltration systems or industrial stormwater ponds for stormwater management. [Minn. R. 7090]
357.1	**PART IX. GENERAL PROVISIONS**. [Minn. R. 7090]
358.1	**Incorporation by Reference**. [Minn. R. 7090]
358.2	This permit incorporates by reference the applicable portions of 40 C.F.R. pts. 122, 123, and 124; Minn. R. chs. 7001, 7050, and 7090; and Minn. Stat. chs. 115 and 116, all of which are enforceable parts of this permit. [Minn. R. 7090]
359.1	**Liabilities**. [Minn. R. 7001.0150, subp. 3(A)]
359.2	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)]
360.1	**More Stringent Rules**. [Minn. R. 7001.0150, subp. 3(B)]
360.2	The MPCA's 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)]
361.1	**Property Rights**. [Minn. R. 7001.0150, subp. 3(C)]
361.2	This permit does not convey a property right or an exclusive privilege. [Minn. R. 7001.0150, subp. 3(C)]
362.1	**MPCA Obligation**. [Minn. R. 7001.0150, subp. 3(D)]
362.2	The MPCA's issuance of this permit does not obligate the MPCA to enforce local laws, rules, or plans beyond what Minnesota statutes authorizes. [Minn. R. 7001.0150, subp. 3(D)]
363.1	**Compliance**. [Minn. R. 7001.0150, subp. 3(E)]
363.2	The Permittee shall perform the actions or conduct the activity this permit authorizes in accordance with the plans and specifications the MPCA approves, if required, and in compliance with the conditions of the permit. [Minn. R. 7001.0150, subp. 3(E)]
364.1	**Toxic Pollutant Discharge**. [Minn. R. 7001.1090, subp. 1(A)]
364.2	Notwithstanding the absence in this permit of an effluent limitation for any toxic pollutant, the Permittee shall not discharge a toxic pollutant except according to 40 C.F.R. pts. 400 to 460 and Minn. R. 7050.0100 to 7050.0220 and 7055.0010 to 7055.0120, and any other applicable MPCA rules. [Minn. R. 7001.1090, subp. 1(A)]
365.1	**Operation and Maintenance**. [Minn. R. 7001.0150, subp. 3(F)]
365.2	The Permittee shall at all times properly operate and maintain the facility and systems of treatment and control and the

	appurtenances related to them that the Permittee uses or installs to achieve compliance with the conditions of the permit. Proper operation and maintenance include effective performance, adequate funding, adequate Operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. [Minn. R. 7001.0150, subp. 3(F)]
366.1	**Criminal Activity**. [Minn. R. 7001.0150, subp. 3(G)]
366.2	The Permittee may not knowingly make a false or misleading statement, representation, or certification in a record, report, plan, or other document the permit requires the Permittee to submit to the MPCA. Upon discovery, the Permittee shall immediately report to the MPCA an error or omission in these records, reports, plans, or other documents. [Minn. R. 7001.0150, subp. 3(G)]
367.1	**Noncompliance**. [Minn. R. 7001.0150, subp. 3(J)]
367.2	If the Permittee discovers an occurrence of noncompliance with a condition of the permit, through any means including notification by the MPCA, the Permittee shall take all reasonable steps to minimize the adverse impacts on human health, public drinking water supplies, or the environment resulting from the noncompliance. [Minn. R. 7001.0150, subp. 3(J)]
368.1	**Subject to Enforcement Action and Penalties**. [Minn. R. 7001.1090, subp. 1(B)]
368.2	Noncompliance with a term or condition of this permit subjects the Permittee to federal and state law penalties set forth in section 309 of the Clean Water Act, United States Code, Title 33, Section 1319 as amended; and in Minn. Stat. 115.071, including monetary penalties, imprisonment, or both. [Minn. R. 7001.1090, subp. 1(B)]
369.1	**Records**. [Minn. R. 7001.0150, subp. 3(H)]
369.2	Upon request from the MPCA, the Permittee shall 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 authorized by the permit or regarding the conduct of the activity authorized by the permit. [Minn. R. 7001.0150, subp. 3(H)]
369.3	The Permittee shall retain copies of the permit application, all data and information gathered to complete the application, and all data and information related to the requirements of this permit or by the MPCA's request, for a period of at least three years. This period automatically extends throughout the course of an unresolved enforcement action regarding the facility or upon request by the MPCA. [Minn. R. 7090]
369.4	The Permittee shall keep all monitoring records for at least three years, including any calculations, original recordings from automatic monitoring devices, and laboratory sheets. The Permittee shall extend these record retention periods upon request by the MPCA. In accordance with Minn. R. 7001.0150, subp. 2(C), the records must include the following information: A. The exact place, date, and time of 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)]
369.5	The Permittee shall ensure that a laboratory certified by the Minnesota Department of Health (MDH) and/or registered with the MPCA (or other MPCA-approved accredited lab) conducts all analyses this permit requires. Laboratory certification is not required for the visual observation of the presence of debris. Analysis of pH must comply with manufacturer's specifications for equipment calibration and use. pH analysis must occur on-site within 15 minutes of sample collection. The Permittee shall maintain written records of all calibrations and maintenance with the SWPPP. [Minn. R. 7090]
370.1	**Confidential Information**. [Minn. R. 7000.1300, subp. 1]
370.2	All reports this permit requires must be available for public inspection, except for any records or other information under Minn. Stat. 116.075, subd. 2 determines to be confidential. In order to maintain data for confidential use of the MPCA, (pursuant to Minn. Stat. 116.075, or as nonpublic data not on individuals or private data as it relates to individuals, pursuant to Minn. Stat. 13.37), a person shall affirmatively request such recognition by providing to the MPCA a written request setting forth the statutory grounds and the reasons that justify the classification of the records or other information as not public. [Minn. R. 7000.1300, subp. 1]
371.1	**Inspection and Entry**. [Minn. R. 7001.0150, subp. 3(I)]
371.2	The Permittee shall allow the MPCA, 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 or the facility industrial activities under authorization of this permit; and to conduct surveys and investigations, including sampling or monitoring, pertaining to the construction, modification, or operation of the facility authorized by the permit or pertaining to the activity authorized by the permit with authorization of Minn. Stat. 115.04, 115B.17, subd. 4, and 116.091; and upon presentation of proper credentials. [Minn. R. 7001.0150, subp. 3(I)]
372.1	**Transfer of Ownership or Control**. [Minn. R. 7001.0150, subp. 3(N)]
372.2	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 receiving the permit shall comply with the conditions of the permit. [Minn. R. 7001.0150, subp. 3(N)]
373.1	**Liability Exemption**. [Minn. R. 7001.0150, subp. 3(O)]
373.2	This permit authorizes the Permittee to perform the activities in this permit under the conditions of the permit. In issuing this permit, the State and MPCA assume no responsibility for any damage to persons, property or the environment caused by the activities of the Permittee in the conduct of its actions, including those activities this permit authorizes, directs, or undertook. To the extent the State and MPCA may be liable for the activities of its employees, that liability is explicitly limited to that provided in the Torts Claim Act, Minn. Stat. 3.736. [Minn. R. 7001.0150, subp. 3(O)]
374.1	**Civil and Criminal Liability**. [Minn. R. 7001.0150, subp. 3(A)]
374.2	Nothing in this permit shall relieve the Permittee from civil or criminal penalties for noncompliance with the terms and conditions herein. Nothing in this permit shall preclude the initiation of any legal action or relieve the Permittee from any responsibilities, liabilities, or penalties to which the Permittee is or may be subject to under Section 311 of the Clean Water Act and Minn. Stat. chs. 115 and 116, as amended; and any rules adopted thereunder. [Minn. R. 7001.0150, subp. 3(A), Minn. R. 7090]
375.1	**Severability**. [Minn. R. 7001]
375.2	The provisions of this permit are severable. If any provision in this permit, or application of any provision, is invalid, the remainder of this permit still applies. [Minn. R. 7001]
376.1	**PART X. ADDITIONAL REQUIREMENTS FOR DISCHARGES TO IMPAIRED AND SPECIAL (PROHIBITED, RESTRICTED, OTHER) WATERS**. [Minn. R. 7050]
377.1	**General Requirements**. [Minn. R. 7050]
377.2	If the Permittee cannot meet the terms and conditions of this section of the permit, the Permittee does not have authorization to discharge industrial stormwater under this permit. The Permittee shall notify the MPCA and seek coverage under an individual NPDES/SDS permit in accordance with Minn. R. ch. 7001. [Minn. R. 7050]
378.1	**Specific Requirements for Industrial Facility Discharges Regulated Under Minn. R. 7050.0210, Non-degradation For Impaired Waters**. [Minn. R. 7050]
378.2	This permit authorizes stormwater discharges associated with industrial activity regulated under this permit provided the Permittee complies with all terms and conditions of this permit, and all terms and conditions of the additional requirements for discharges to impaired waters listed in this section. [Minn. R. 7050]
378.3	The Permittee shall develop and implement stormwater control measures, including BMPs, that restrict the facility's industrial stormwater discharges, to the extent possible, to ensure the facility's stormwater is not causing pollution to negatively affect the water quality of the impaired water. [Minn. R. 7050]
378.4	If a facility is within one mile of and discharges to a water impaired for TSS or an impairment listed in the Surrogates: Pollutant of Impairment section of this permit as a surrogate for TSS, and TSS is listed as a required benchmark monitoring parameter for the Permittee's industrial sector(s) in Appendix B then: A. A benchmark monitoring value of 65 mg/L for Total Suspended (TSS) applies to the discharge at a benchmark monitoring location, instead of 100 mg/L as specified in the sector requirements of Appendix B. [Minn. R. 7050, Minn. R. 7090]
379.1	**Specific Requirements for Industrial Facility Discharges Regulated Under Minn. R. 7050.0335., Non-degradation For Outstanding Resource Value Waters**. [Minn. R. 7050.0335]
379.2	This permit authorizes stormwater discharges associated with industrial activity regulated under this permit provided the Permittee complies with all terms and conditions of this permit, including the additional required BMPs specified in the Additional Required BMPs section below. [Minn. R. 7050, Minn. R. 7090]

380.1	**Restricted discharges as defined in Minn. R. 7050.0335**. [Minn. R. 7050.0335]
380.2	Lake Superior, except those portions identified as a prohibited discharges zone. The Permittee shall comply with BMP 1 in the Additional Required BMPs section below. [Minn. R. 7050]
380.3	The Mississippi River, those portions from Lake Itasca to the southerly boundary of Morrison County that are included in the Mississippi Headwaters Board comprehensive plan dated February 12th, 1981. The Permittee shall comply with BMP 1 in the Additional Required BMPs section below. [Minn. R. 7050]
380.4	Lake trout lakes, identified in Minn. R. 7050.0460 to 7050.0470. The Permittee shall comply with BMP 1 and BMP 3 in the Additional Required BMPs section below. [Minn. R. 7050]
380.5	Federal or state designated scenic or recreational river segments: Saint Croix river, entire length; Cannon River from northern city limits of Faribault to its confluence with the Mississippi River; North Fork of the Crow River from Lake Koronis outlet to the Meeker-Wright County line; Kettle River from north Pine County line to the site of the former dam at Sandstone; Minnesota River from Lac qui Parle dam to Redwood County State Aid Highway 11; Mississippi River from county state aid Highway 7 bridge in Saint Cloud to northwestern city limits of Anoka; and Rum River from state aid Highway 27 bridge in Onamia to Madison and Rice streets in Anoka. The Permittee shall comply with BMP 1 in the Additional Required BMPs section below. [Minn. R. 7050]
380.6	Calcareous fens as identified in Minn. R. 7050.0335 subp, 1(E). The Permittee shall comply with BMP 1 and BMP 4 in the Additional Required BMPs section below. [Minn. R. 7050.0335, subp. 1(E)]
380.7	Special requirements for industrial facilities that have a monitoring location from which a discharge flows to, and is within one mile of, Trout Streams listed in Minn. R. 6264.0050, subp. 4 and Minn. R. 7050.0420. The Permittee shall comply with BMP 1 and BMP 2 in the Additional Required BMPs section below. [Minn. R. 7050]
380.8	Special requirements for industrial facilities that have a monitoring location from which a discharge flows to, and is within one mile of, Trout Lakes listed in Minn. R. 6264.0050, subp. 2 and Minn. R. 7050.0420. The Permittee shall comply with BMP 1 and BMP 3 in the Additional Required BMPs section below. [Minn. R. 6264.0050, subp. 2, Minn. R. 7050, Minn. R. 7050.0420]
380.9	Special requirements for industrial facilities that have a monitoring location from which a discharge flows to, and is within one mile of, Wetlands as defined in Minn. R. 7050.0186, subp. 1(a)B. The Permittee shall comply with the requirements of Minn. R. 7050.0186, WETLAND STANDARDS AND MITIGATION. [Minn. R. 7050.0186, subp. 1(a)B]
381.1	**Additional Required BMPs**. [Minn. R. 7050]
381.2	If the Permittee cannot certify a condition of No Exposure, as described in this permit, the Permittee shall comply with the appropriate requirements below. [Minn. R. 7050]
382.1	**BMP 1**. The Permittee shall develop and implement stormwater control measures, including BMPs that restrict the facility industrial stormwater discharges to the extent necessary to preserve the existing high quality, or to preserve the wilderness, scientific, recreational, or other special characteristics that make the water an Outstanding Resource Value Water. If TSS is listed as a required benchmark monitoring parameter for the Permittee's industrial sector(s) in Appendix B, a benchmark value of 65 mg/L for Total Suspended (TSS) applies to the discharge at a benchmark monitoring location, instead of 100 mg/L as specified in the sector requirements of Appendix B. If the Permittee has a waiver from the requirements to conduct benchmark monitoring, the benchmark value does not apply.

	The SWPPP must contain the following components: A. A selection of industrial stormwater volume reduction and/or pollutant concentration reduction BMPs, designed to restrict industrial stormwater discharges to the designated water. The SWPPP must include necessary calculations to demonstrate the effectiveness of the chosen BMPs in reducing volume and/or pollutant concentrations; and B. A narrative discussion describing how the Permittee will monitor and maintain the BMPs the Permittee uses long-term, to ensure the industrial facility will sustain restricted industrial stormwater discharges. [Minn. R. 7050]
383.1	**BMP 2**. The Permittee shall design and implement BMPs specifically protecting the water quality of trout streams from excess temperature increases. The Permittee shall include any associated calculations and design details with the SWPPP, as required by BMP 1. [Minn. R. 7050]
384.1	**BMP 3**. The Permittee shall design and implement BMPs specifically protecting the water quality of trout lakes from excess phosphorus increases. The Permittee shall include any associated calculations and design details with the SWPPP, as required by BMP 1. [Minn. R. 7050]
385.1	**BMP 4**. The Permittee shall design and implement BMPs specifically protecting the water quality of calcareous fens. The BMPs must ensure that the Permittee does not impact or otherwise degrade calcareous fens, wholly or partially, unless the Permittee has a management plan the DNR Commissioner approves. The Permittee shall include any associated calculations and design details with the SWPPP, as required by BMP 1. [Minn. R. 7050]
386.1	**PART XI. PER-AND POLYFLUOROALKYL SUBSTANCES (PFAS) MONITORING AND REPORTING REQUIREMENTS**. [Minn. R. 7090]
386.2	The Permittee of a facility with a primary SIC Code listed in Appendix D shall monitor for PFAS in stormwater at its facility's area(s) of concern (AOC). The Permittee shall abide by all requirements and monitor for PFAS using the procedures outlined in this section of the Permit. [Minn. R. 7090]
387.1	**SWPPP and PFAS Stormwater Monitoring Plan Requirements**. [Minn. R. 7090]
387.2	The Permittee must develop and implement a PFAS Stormwater Monitoring Plan for its facility, which must be reviewed and updated annually. The PFAS Stormwater Monitoring Plan must provide a detailed description of the facility's AOC monitoring location(s) and significant materials within the AOC. The PFAS Stormwater Monitoring Plan must include a facility map. The PFAS Stormwater Monitoring Plan must be included in the facility's SWPPP and made available to the MPCA within 72 hours of a request for review. The facility map must identify the following: A. All identified area(s) of concern boundaries; B. All AOC monitoring locations; C. Drinking Water Supply Management Areas (DWSMA) within one mile; and D. Class 1 surface waters, as defined in Minn. R. 7050.0140, that are within one mile of the facility and receives stormwater discharge from the facility. [Minn. R. 7090]
387.3	The Permittee must identify in the facility's PFAS Stormwater Monitoring Plan the individual(s) responsible for conducting the facility's PFAS stormwater monitoring. The responsible individual(s) must conduct sampling in accordance with the US EPA's Method 1633. [Minn. R. 7090]
388.1	**Where to Collect a PFAS Sample; Number of Samples**. [Minn. R. 7090]
388.2	The Permittee shall monitor for PFAS by collecting stormwater samples from each facility's AOC as identified in the facility's PFAS stormwater monitoring plan. The Permittee shall collect samples where stormwater leaves the area of concern at the most representative location. [Minn. R. 7090]
388.3	PFAS Stormwater samples must be collected for at least four calendar quarters. Sampling requirements begin the first full calendar quarter following the facility's coverage issuance date. Sample quarters do not need to be consecutive. [Minn. R. 7090]
389.1	**When to Collect a PFAS Sample**. [Minn. R. 7090]
389.2	Permittees shall collect PFAS stormwater samples for at least four calendar quarters after receiving coverage. Permittees must collect samples from a measurable runoff event at each of the facility's AOC, provided there is a gap of three days between measurable runoff events. Permittees may collect a snow sample if there has been an acceptable accumulation of snow as defined in the MPCAs Industrial Stormwater Per- and polyfluoroalkyl substance (PFAS) Snow Sampling

	Guidance document. [Minn. R. 7090]
389.3	To the extent feasible, the Permittee shall attempt to collect a stormwater sample, from a measurable runoff event, within the first 30 minutes upon the discharge reaching the area(s) of concern monitoring location(s). [Minn. R. 7090]
390.1	**How to Collect a PFAS Sample**. [Minn. R. 7090]
390.2	All stormwater samples collected for the purpose of analyzing PFAS must be collected and analyzed in accordance with the US EPA's Method 1633 requirements, which requires monitoring for the 40 PFAS analytes listed in this permit's Appendix D. [Minn. R. 7090]
390.3	The Permittee must have its PFAS stormwater monitoring samples analyzed in accordance with US EPA's Method 1633. The laboratory analyzing the samples must also be certified by the Minnesota Department of Health (MDH) and/or registered with the MPCA or be another MPCA-approved accredited lab. [Minn. R. 7090]
390.4	The Permittee's responsible individual(s) shall collect stormwater in the form of precipitation from a measurable runoff event (rain) from each of the facility's AOC location(s). If the Permittee collects more than one sample per quarter, then the results must be averaged within the quarter. [Minn. R. 7090]
390.5	Snow sampling may be conducted once a facility has received at least a three-inch accumulation of snow over a period of three weeks and must not be completed immediately after a snowfall event. Snow samples collected for PFAS analysis must be collected by a responsible individual using the protocols provided in the current edition of the MPCA's Industrial Stormwater Per- and polyfluoroalkyl substance (PFAS) Snow Sampling Guidance document. If the Permittee collects more than one sample per quarter, then the results must be averaged within the quarter. [Minn. R. 7090]
391.1	**Reporting PFAS Monitoring Results**. [Minn. R. 7090]
391.2	The Permittee must submit PFAS monitoring data to the MPCA no later than the 21st day of the month following the sampling quarter. The Permittee shall submit PFAS sampling results as follows: Submit a quarterly PFAS Stormwater Monitoring Report to the MPCA, even if there is not a collectable amount of snow and/or measurable runoff sufficient to obtain a sample. In the absence of a collectable amount of snow and/or measurable runoff event during a quarter due to weather conditions and/or site soil characteristics, the Permittee shall complete the appropriate sections of a PFAS Stormwater Monitoring Report, providing an explanation as to why a sample was not able to be collected, and submit the report to the MPCA. [Minn. R. 7090]
392.1	**Unable to Collect a PFAS Sample**. [Minn. R. 7090]
392.2	In the absence of a measurable runoff event or acceptable snowfall event during a calendar quarter due to weather conditions, the Permittee shall complete the appropriate sections of a PFAS Monitoring Report, by providing an explanation as to why a sample was not able to be collected and submit the report to the MPCA. [Minn. R. 7090]
393.1	**PFAS Monitoring Thresholds**. [Minn. R. 7090]
393.2	After collecting and analyzing at least four separate quarterly samples, the Permittees subject to the thresholds in the PFAS Thresholds section shall average the PFOA and PFOS values, in ng/L, found at each AOC location. Permittees subject to the thresholds in the PFAS Thresholds for DWSMAs and Class 1 Waters section shall average the PFOA, PFOS, PFHxS, PFNA, and HFPO-DA values, in ng/L, found at each AOC location. If the Permittee collects more than one sample per quarter, then the results must be averaged within the quarter. [Minn. R. 7090]
393.3	For averaging purposes, the Permittee must use a value of zero for any sample result the laboratory reports that is less than the method detection limit. For results the laboratory reports as falling between the method detection level and the quantitation limit (i.e.: a confirmed detection, but below the level that can be reliably quantified), the Permittee shall use a value halfway between zero and the quantitation limit. [Minn. R. 7090]
394.1	**PFAS Thresholds**. If the averaged result of either PFOA and/or PFOS is greater than its respected threshold then the Permittee shall be required to complete and implement a PFAS Source and Exposure Reduction Plan (SERP). 10 ng/L for PFOS 10 ng/L for PFOA. An exceedance of these threshold(s) does not constitute a violation(s). [Minn. R. 7090]
395.1	**PFAS Thresholds for DWSMAs and Class 1 Waters**. If the facility is in or within one mile of a Drinking Water Supply Management Area (DWSMA) as defined in Minn. R. 4720.5100, subp. 13. and/or is within one mile of a Class 1 surface

	water, as defined in Minn. R. 7050.0221, which receives stormwater discharge from the facility, the thresholds for PFOA and PFOS are reduced, and other pollutants have thresholds listed below: 4 ng/L for PFOS 4 ng/L for PFOA 10 ng/L for PFHxS 10 ng/L for PFNA 10 ng/L for HFPO-DA (commonly known as GenX chemicals). If the averaged result for any of the PFAS analytes above (PFOA, PFOS, PFHxS, PFNA, and/or HFPO-DA) are at or greater than its respective threshold then the Permittee shall be required to complete and implement a PFAS Source and Exposure Reduction Plan (SERP). [Minn. R. 4720.5100, Minn. R. 7090]
396.1	**PFAS Source and Exposure Reduction Plan Requirements**. [Minn. R. 7090]
396.2	The Permittee, if required, shall complete and begin implementing a PFAS source and exposure reduction plan (SERP) within 180 days of its final sampling quarter. The Permittee must utilize the current version of the SERP template provided by the MPCA. The Permittee shall review and update its SERP annually and submit its implemented PFAS SERP or a draft of its PFAS SERP as part of its Industrial Stormwater Annual Report. [Minn. R. 7090]
397.1	**PART XII. DEFINITIONS AND ABBREVIATIONS**. [Minn. R. 7090]
397.2	"Active" means that significant materials and/or industrial activities, whether temporary or permanent, are present at the facility, regardless of if staff is present at the facility. [Minn. R. 7090]
397.3	"Area of Concern" means the area(s) of the facility exposed to stormwater where the Permittee makes, uses, stores, or processes PFAS containing materials and/or where vents or exhausts are located on buildings that make, use, store, or process PFAS containing materials, or areas of the facility where PFAS would otherwise become exposed to stormwater, if present at the facility due to its industrial activities. [Minn. R. 7090]
397.4	"Benchmark monitoring location" for purposes of the industrial stormwater permit, means the location(s) within the boundary of the facility where the Permittee will collect stormwater samples for the purpose of compliance with the benchmark monitoring requirements of this permit. [Minn. R. 7090]
397.5	"Benchmark Value" means the average of four consecutive quarterly sampling results. [Minn. R. 7090]
397.6	"Best management practices" or "BMPs" means practices to prevent or reduce the pollution of waters of the state, including schedules of activities, prohibitions of practices, and other management practices, and includes treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge, or waste disposal or drainage from raw material storage. [Minn. R. 7001.1020, subp. 5]
397.7	"Class B Foam" means a stable combination of per- and poly-fluorinated surfactants (PFAS) and foaming agents used to extinguish flammable liquids, such as burning oil, gasoline, and jet fuel, and is most commonly referred to as Aqueous Film Forming Foam (AFFF). [Minn. R. 7090]
397.8	"Class V Injection Well" refers to any well or disposal method used to dispose of non-hazardous fluids underground. Examples of Class V Injection Wells include stormwater drainage wells, septic system leach fields, and agricultural drainage wells. [Minn. Stat. 115.03]
397.9	"Co-located industrial activities" means any industrial activities at a facility defined by the stormwater regulations at 40 C.F.R. 122.26(b)(14)(i)-(ix) and (xi), other than the primary SIC Code or narrative activity. [Minn. R. 7090]
397.10	"Commissioner" means the Commissioner of the Minnesota Pollution Control Agency or the Commissioner's designee. [Minn. Stat. 116.36, subd. 3]
397.11	"Construction activity" for this permit includes construction activity as defined in 40 C.F.R. 122.26(b)(14)(x) and small construction activity as defined in 40 C.F.R. 122.26(b)(15). This includes a disturbance to the land that results in a change in the topography, existing soil cover (both vegetative and non-vegetative), or the existing soil topography that may result in accelerated stormwater runoff, leading to soil erosion and movement of sediment into surface waters or drainage systems. Construction activity may include clearing, grading, filling, and excavating. Construction activity includes the disturbance of less than one acre of total land area that is a part of a larger common plan of development or sale if the larger common plan will ultimately disturb one (1) acre or more. [40 CFR 122.26(b)]

397.12	"Effluent Limit" means a restriction established by rule or permit condition on quantities, discharge rates, and concentrations of pollutants that are discharged from point sources into waters of the state. [Minn. R. 7001]
397.13	"Effluent monitoring location" for the purposes of this permit means the location(s) within the boundary of the facility where the Permittee will collect stormwater samples for the purpose of compliance with the Effluent Monitoring Requirements section of this permit. [Minn. R. 7090]
397.14	"Facility" for the purposes of this permit, means land that shares a common border and that has an industrial stormwater discharge as defined in 40 C.F.R. 122.26(b)(14) with the discharge having a common owner or operator. [40 CFR 122.26(b)(14)]
397.15	"Impaired water" means waters identified as impaired by the MPCA, and approved by the US EPA, pursuant to section 303(d) of the Clean Water Act. [CWA Sect. 303]
397.16	"Impervious surface" means a constructed hard surface that either prevents or retards the entry of water into the soil and causes water to run off the surface in greater quantities and at an increased rate of flow than prior to development. Examples include rooftops, sidewalks, patios, driveways, parking lots, storage areas, and concrete, asphalt, or gravel roads. [Minn. R. 7090]
397.17	"Inactive" means a facility or portion of a facility at which significant materials are not present and at which no industrial activities are conducted and is not an active facility, and where the inactive portion is not covered by any active permit issued by the applicable State or Federal agency. An inactive facility has no staff, no significant materials, and no industrial activities exposed to stormwater. [Minn. R. 7090]
397.18	"Industrial activity" means the eleven categories of industrial activity which are directly related to manufacturing, processing, or raw materials storage areas at an industrial plant, as defined in 40 C.F.R. 122.26(b)(14)(i)-(xi). Not every industrial activity in this definition is eligible for authorization under this permit (e.g. construction activity); see the Authorization section of this permit for eligibility criteria. [Minn. R. 7090.0080, subp. 6]
397.19	"Industrial stormwater pond" for purposes of the industrial stormwater permit means constructed detention or retention facilities for the treatment of stormwater runoff under the requirements of this permit. This includes permanent ponds, dry ponds, flow equalization ponds (followed by other BMPs), and constructed wetlands. However, natural wetlands (including types 1-8) and other natural surface water bodies are not industrial stormwater ponds, parts of ponds or pond systems, and cannot be used as BMPs for stormwater treatment unless mitigated in accordance with applicable state rules. [Minn. R. 7090]
397.20	"Infiltration system" for purposes of the industrial stormwater permit, means a designed and constructed Best Management Practice to which industrial stormwater runoff is diverted, collected, or conveyed for the purpose of infiltration. An infiltration system does not include the parts of the system that diverts, collects, or conveys industrial stormwater. Incidental infiltration from conveyances such as swales or ditches, including those with erosion prevention devices such as vegetation, silt fence, or fiber bails, is not an infiltration system. However, swales, ditches, or similar devices constructed with stop logs, ditch excavation for storage or other retention devices, which are for the purpose of increased infiltration, are infiltration systems. Wetlands (including types 1 through 8) and other natural surface water bodies are not infiltration systems or parts of infiltration system systems, and cannot be used as infiltration systems, unless mitigated in accordance with applicable state rules. [Minn. R. 7090]
397.21	"Measurable Runoff Event" means precipitation, snow melt, or other event that causes stormwater to flow at a monitoring location or area of concern. [Minn. R. 7090]
397.22	"Monitoring location" means any Monitoring Location (including those locations that are part of a representative location) and/or any Effluent Monitoring Location. [Minn. R. 7090]
397.23	"Municipal separate storm sewer system or MS4" means a conveyance or system of conveyances including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man- made channels, or storm drains: A. Owned or operated by a state, city, town, county, district, association, or other public body, created by or pursuant to state law, having jurisdiction over disposal of sewage, industrial wastes, storm water, or other wastes, including special districts under state law such as a sewer district, flood control district, or drainage district or similar entity, or an Indian tribe or an authorized Indian tribe organization, or a designated and approved management agency under section 208 of the federal Clean Water Act, United States Code, title 33, section 1288, that discharges into waters of the state; B. Designed or used for collecting or conveying storm water; C. That is not a combined sewer; and D. That is not part of a publicly owned treatment works as defined in Code of Federal Regulations, title 40,

	section 122.2. Municipal separate storm sewer systems do not include separate storm sewers in very discrete areas, such as individual buildings. [Minn. R. 7090.0800, subp. 8]
397.24	"Narrative activity" means those industrial activities as defined by 40 C.F.R. 122.26(b)(14)(i), (iv), (v), (vii), and (ix). [40 CFR 122.26(b)(14)(i), (iv), (v), (vii) and (ix)]
397.25	"No exposure" means that all industrial materials or activities are protected by a storm-resistant shelter to prevent exposure to rain, snow, snowmelt, or runoff. Industrial materials or activities include, but are not limited to, material handling equipment or activities, industrial machinery, raw materials, intermediate products, by-products, final products, or waste products. Material handling activities include the storage, loading and unloading, transportation, or conveyance of any raw material, intermediate product, final product, or waste product. [Minn. R. 7090.0080, subp. 9]
397.26	"Non-stormwater discharge" means any discharge not comprised entirely of stormwater. [Minn. R. 7090]
397.27	"One mile" for purposes of the industrial stormwater permit, means a direct horizontal distance of one mile measured from any monitoring location to the Ordinary High-Water Level (Minn. Stat. 103G.005, subd. 14) where the stormwater discharge associated with industrial activity enters either an impaired water, or any water described in the Additional Requirements for Discharges to Special and Impaired Waters section of this permit. [Minn. R. 7090]
397.28	"Operator" is the person responsible for the overall operation of an industrial facility under Minn. R. 7090.3000. [Minn. R. 7090.0080, subp. 10]
397.29	"Owner" is the person who owns an industrial facility or part of an industrial facility under Minn. R. pt. 7090.3000. [Minn. R. 7090.0080, subp. 11]
397.30	"Permittee" means a person or persons, firm, or governmental agency or other institution that signs the permit application submitted to the MPCA and is responsible for compliance with the terms and conditions of this permit. [Minn. R. 7090]
397.31	"Person" means any human being, any municipality or other governmental or political subdivision or public agency, any public or private corporation, any partnership, firm, association, or other organization, any receiver, trustee, assignee, agent, or other legal representative of any of the foregoing, or any other legal entity, but does not include the MPCA. [Minn. Stat. 116.06, subd. 17]
397.32	"Primary standard industrial classification (SIC) code" for the purposes of the industrial stormwater permit, is the SIC code associated with the industrial activity that generates the greatest revenue. If revenue data is not available, the owner/operator shall base the determination on the number of employees engaged in the industrial activity. If it is not possible to determine the primary SIC code using either of these two methods, the owner/operator shall base the determination on the SIC code with the greatest production. The industrial activity that generates the greatest revenue, employs the most personnel, or has the greatest production, is the industrial activity assigned the primary SIC code. [Minn. R. 7090]
397.33	"Saturated soil" for the purposes of the industrial stormwater permit, means the highest seasonal elevation in the soil that is in a reduced chemical state because of soil voids being filled with water. Saturated soil is evidenced by the presence of redoximorphic features or other information upon determination by a Minnesota-licensed Professional Geoscientist or Engineer. [Minn. R. 7090]
397.34	"Significant materials" includes, but is not limited to: raw materials; fuels; materials such as solvents, detergents, and plastic pellets; finished materials such as metallic products; raw materials used in food processing or production; hazardous substances designated under Section 101(14) of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA); any chemical the facility is required to report pursuant to Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA); fertilizers; pesticides; and waste products such as ashes, slag, and sludge that have the potential to be released with stormwater discharges. When determining whether a material is significant, the physical and chemical characteristics of the material should be considered (e.g. the material's solubility, transportability, and toxicity characteristics) to determine the material's pollution potential. [40 CFR 122.26(b)(12)]
397.35	"Storm-resistant shelter" means completely roofed and walled buildings or structures, as well as structures with only a top cover but no side coverings, and the material under the structure is not subjected to any run-on and subsequent runoff of stormwater. [Minn. R. 7090]
397.36	"Stormwater" means stormwater runoff, snowmelt runoff, and surface runoff and drainage. [Minn. R. 7090.0080, subp. 12]

397.37	"Stormwater discharge associated with industrial activity" or "industrial stormwater discharge" means the discharge from any conveyance that is used for collecting and conveying stormwater and that is directly related to manufacturing, processing, or raw materials storage areas at an industrial plant. The term does not include discharges from facilities or activities excluded from the NPDES program under 40 C.F.R. pt. 122. For the categories of industries identified in this section, the term includes, but is not limited to, stormwater discharges from: A. Industrial plant yards; B. Immediate access roads and rail lines used or traveled by carriers of raw materials, manufactured products, waste material, or by-products used or created by the facility; C. Material handling sites; D. Refuse sites; E. Sites used for the application or disposal of process wastewater (as defined at part 401 of this chapter); F. Sites used for the storage and maintenance of material handling equipment; G. Sites used for residual treatment, storage, or disposal; H. Shipping and receiving areas; I. Manufacturing buildings; J. Storage areas (including tank farms) for raw materials, and intermediate and final products; and K. Areas where industrial activity has taken place in the past and significant materials remain and are exposed to stormwater. For the purposes of this paragraph, material handling activities include storage, loading and unloading, transportation, or conveyance of any raw material, intermediate product, final product, by- product or waste product. The term excludes areas located on plant lands separate from the plant's industrial activities, such as office buildings and accompanying parking lots as long as the drainage from the excluded areas is not mixed with stormwater drained from the above-described areas. Industrial facilities include those that are federally, State, or municipally owned or operated that meet the description of the facilities listed in 40 C.F.R. 122.26 (b)(14)(i) through (xi), except (x). The term also includes those facilities designated under the provisions of 40 C.F.R. 122.26 (a)(1)(v). [40 CFR 122.26, Minn. R. 7090]
397.38	"Stormwater pollution prevention plan" or "SWPPP" means a plan for stormwater discharge that includes facility-specific activities and actions to, first, identify sources of pollution or contamination at the facility, and second, select and implement BMPs to reduce or eliminate contact of stormwater with significant materials that may result in polluted runoff from the facility. [40 CFR 122.26]
397.39	"Control Measure or Stormwater Control Measure" means any stormwater control or other method (including numeric or narrative effluent limitations) used to prevent or reduce the discharge of pollutants to waters of the United States. [Minn. R. 7090]
397.40	"Surface water or waters" for purposes of the industrial stormwater permit, means all streams, lakes, ponds, marshes, wetlands, reservoirs, springs, rivers, drainage systems, waterways, watercourses, and irrigation systems whether natural or artificial, public, or private. [Minn. R. 7090]
397.41	"Total maximum daily load" or "TMDL" means the sum of the individual wasteload allocations for point sources and load allocations for nonpoint sources and natural background, as more fully defined in Code of Federal Regulations, title 40, section 130.2, paragraph (i). A TMDL sets and allocates the maximum amount of a pollutant that may be introduced into a water of the state and still assure attainment and maintenance of water quality standards. [Minn. R. 7052.0010, subp. 42]
397.42	"Wasteload allocation (WLA)" means the portion of a receiving water's loading capacity that is allocated to one of its existing or future point sources of pollution, as more fully defined in 40 C.F.R. 130.2(h). In the absence of a TMDL approved by US EPA under 40 C.F.R., 130.7, or an assessment and remediation plan developed and approved according to part 7052.0200, subpart 1, item C, a WLA is the allocation for an individual point source that ensures that the level of water quality to be achieved by the point source is derived from and complies with all applicable water quality standards and criteria. [Minn. R. 7052.0010, subp. 45]
397.43	"Water quality standards" means those provisions contained in Minn. R. 7050 and 7052. [Minn. R. 7050, Minn. R. 7052]
397.44	"Waters of the state" means all streams, lakes, ponds, marshes, watercourses, waterways, wells, springs, reservoirs, aquifers, irrigation systems, drainage systems and all other bodies or accumulations of water, surface or underground, natural or artificial, public or private, which are contained within, flow through, or border upon the state or any portion thereof. [Minn. Stat. 115.01, subd. 22]
397.45	"Wetlands" are those areas that are inundated or saturated by surface water or groundwater at a frequency and duration

	sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas. Constructed wetlands designed for wastewater treatment are not waters of the state. Wetlands shall have the following attributes: A. A predominance of hydric soils; B. Inundated or saturated by surface water or groundwater at a frequency and duration sufficient to support a prevalence of hydrophytic vegetation typically adapted for life in a saturated soil condition; and C. Under normal circumstances support a prevalence of such vegetation. [Minn. R. 7050.0186, subp. 1B]
398.1	**ABBREVIATIONS AND ACRONYMS** A. AOC - Area of Concern B. BOD 5 - Biochemical Oxygen Demand (5 day test) C. BMP - Best Management Practice D. CERCLA - Comprehensive Environmental Response, Compensation and Liability Act E. C.F.R. - Code of Federal Regulations F. COD- Chemical Oxygen Demand G. CWA - Clean Water Act or the Federal Water Pollution Control Act, 33 U.S.C. 1251 et seq) H. LA - Load Allocations I. MS4 - Municipal Separate Storm Sewer System J. NPDES - National Pollutant Discharge Elimination System K. PFAS - Per-and polyfluoroalkyl substances L. POTW - Publicly Owned Treatment Works M. SDS - State Disposal System N. SIC - Standard Industrial Classification O. SPCC - Spill Prevention, Control, and Countermeasures P. SWPPP - Stormwater Pollution Prevention Plan Q. TMDL - Total Maximum Daily Load R. TSS - Total Suspended Solids S. US EPA means the United States Environmental Protection Agency. [Minn. R. 7090]

APPENDIX A. AUTHORIZED SECTORS OF INDUSTRIAL ACTIVITIES

Eligibility for this permit is limited to **facilities** with an **industrial activity** (SIC code(s) or **narrative activity**) as defined in 40 CFR § 122.26(b)(14)(i)-(xi). **Industrial activities** have been grouped into 29 sectors as summarized in Table 5 of this Appendix. All references to sectors or subsectors in this permit refer to these groupings. Note: **Narrative activities** are those **industrial activities** that are described by a narrative (rather than an SIC code) and/or having a numeric effluent limit. Examples include, but are not limited to, sectors E, K, L, O, and T.

* Standard Industrial Classification (SIC) codes and **Narrative Activities** (Nar. Act.) are defined by 122.26 (b)(14)(i)-(xi), except (x)					
Sector	**Sector Description**	**Subsector**	**Subsector Description**	**SIC – Nar. Act. ***	**SIC – Nar. Act. Description ***
A	Timber Products	A1	General Sawmills/Planing Mills	2421	Sawmills and Planing Mills, General
		A2	Wood Preserving	2491	Wood Preserving
		A3	Log Storage and Handling	2411	Logging
		A4	Discharges From Wet Decking Storage Areas	ANEL1	Discharges From Wet Decking Storage Areas
		A5	Hardwood Dimension and Flooring Mills	2426	Hardwood Dimension and Flooring Mills
				2429	Special Product Sawmills, Not Elsewhere Classified
				2431	Millwork
				2435	Hardwood Veneer and Plywood
				2436	Softwood Veneer and Plywood
				2439	Structural Wood Members, Not Elsewhere Classified
				2448	Wood Pallets and Skids
				2449	Wood Containers, Not Elsewhere Classified
				2451	Mobile Homes
				2452	Prefabricated Wood Buildings and Components
				2493	Reconstituted Wood Products
				2499	Wood Products, Not Elsewhere Classified
				2441	Nailed and Lock Corner Wood Boxes and Shook
B	Paper and Allied Products Manufacturing	B1	Pulp, Paper, Cardboard, Converted Paper and Paperboard Products	2611	Pulp Mills
				2621	Paper Mills
				2631	Paperboard Mills
				2652	Setup Paperboard Boxes
				2653	Corrugated and Solid Fiber Boxes
				2655	Fiber Cans, Tubes, Drums, and Similar Products
				2656	Sanitary Food Containers, Except Folding
				2657	Folding Paperboard Boxes, Including Sanitary
				2671	Packaging Paper and Plastics Film, Coated and Laminated
				2672	Coated and Laminated Paper, Not Elsewhere Classified
				2673	Plastics, Foil, and Coated Paper Bags
				2674	Uncoated Paper and Multiwall Bags
				2675	Die-Cut Paper and Paperboard and Cardboard
				2676	Sanitary Paper Products
				2677	Envelopes
				2678	Stationery, Tablets, and Related Products
				2679	Converted Paper and Paperboard Products, Not Elsewhere Classified
C	Chemical and Allied	C1	Runoff from phosphate fertilizer manufacturing	CNEL2	Runoff from phosphate fertilizer manufacturing facilities that comes into contact with any raw

	Products Manufacturing		facilities that comes into contact with any raw materials, finished product, by-products or waste products		materials, finished product, by-products or waste products
		C2	Agricultural Chemicals	2873	Nitrogenous Fertilizers
				2874	Phosphatic Fertilizers
				2875	Fertilizers, Mixing Only
				2879	Pesticides and Agricultural Chemicals, Not Elsewhere Classified
		C3	Industrial Inorganic Chemicals	2812	Alkalies and Chlorine
				2813	Industrial Gases
				2816	Inorganic Pigments
				2819	Industrial Inorganic Chemicals, Not Elsewhere Classified
		C4	Soaps, Detergents, Cosmetics, Perfumes	2841	Soap and Other Detergents, Except Specialty Cleaners
				2842	Specialty Cleaning, Polishing, and Sanitation Preparations
				2843	Surface Active Agents, Finishing Agents, Sulfonated Oils, and Assistants
				2844	Perfumes, Cosmetics, and Other Toilet Preparations
		C5	Plastics, Synthetics, Resins	2821	Plastics Materials, Synthetic Resins, and Nonvulcanizable Elastomers
				2822	Synthetic Rubber (Vulcanizable Elastomers)
				2823	Cellulosic Manmade Fibers
				2824	Manmade Organic Fibers, Except Cellulosic
				3952	Lead Pencils, Crayons, and Artists' Materials
		C6	Medicinal Chemicals and Botanical Products	2833	Medicinal Chemicals and Botanical Products
				2834	Pharmaceutical Preparations
				2835	In Vitro and In Vivo Diagnostic Substances
				2836	Biological Products, Except Diagnostic Substances
				2851	Paints, Varnishes, Lacquers, Enamels, and Allied Products
				2861	Gum and Wood Chemicals
				2865	Cyclic Organic Crudes and Intermediates, and Organic Dyes and Pigments
				2869	Industrial Organic Chemicals, Not Elsewhere Classified
				2891	Adhesives and Sealants
				2892	Explosives
				2893	Printing Ink
				2895	Carbon Black
				2899	Chemicals and Chemical Preparations, Not Elsewhere Classified
		C7	Ethanol Facilities	2869	Industrial Organic Chemicals, Not Elsewhere Classified
D	Asphalt Paving and Roofing Materials and Lubricant Manufacturing	D1	Asphalt Paving and Roofing Materials	2951	Asphalt Paving Mixtures and Blocks
				2952	Asphalt Felts and Coatings
		D2	Discharges from Production of Asphalt Emulsions Areas	DNEL3	Asphalt Paving Mixtures and Blocks
				DNEL3	Asphalt Felts and Coatings
		D3	Miscellaneous Products of Petroleum and Coal	2992	Lubricating Oils and Greases
				2999	Products of Petroleum and Coal, Not Elsewhere Classified
E	Glass, Clay, Cement, Concrete, and	E1	Clay Products Manufacturers	3251	Brick and Structural Clay Tile
				3253	Ceramic Wall and Floor Tile
				3255	Clay Refractories

	Gypsum Products			3259	Structural Clay Products, Not Elsewhere Classified
				3261	Vitreous China Plumbing Fixtures and China and Earthenware Fittings and Bathroom Accessories
				3262	Vitreous China Table and Kitchen Articles
				3263	Fine Earthenware (Whiteware) Table and Kitchen Articles
				3264	Porcelain Electrical Supplies
				3269	Pottery Products, Not Elsewhere Classified
		E2	Concrete and Gypsum Product Manufacturers	3271	Concrete Block and Brick
				3272	Concrete Products, Except Block and Brick
				3273	Ready-Mixed Concrete
				3274	Lime
				3275	Gypsum Products
		E3	Cement Manufacturing Facility, Material Storage Runoff	CMF	Cement Manufacturing Facility, Material Storage Runoff
		E4	Glass, Stone, Abrasive, and Asbestos Manufacturing.	3211	Flat Glass
				3221	Glass Containers
				3229	Pressed and Blown Glass and Glassware, Not Elsewhere Classified
				3231	Glass Products, Made of Purchased Glass
				3241	Cement, Hydraulic
				3281	Cut Stone and Stone Products
				3291	Abrasive Products
				3295	Minerals and Earths, Ground or Otherwise Treated
				3296	Mineral Wool
				3297	Nonclay Refractories
				3299	Nonmetallic Mineral Products, Not Elsewhere Classified
F	Primary Metals	F1	Steel Works, Blast Furnaces, and Rolling and Finishing Mills	3312	Steel Works, Blast Furnaces (Including Coke Ovens), and Rolling Mills
				3313	Electrometallurgical Products, Except Steel
				3315	Steel Wiredrawing and Steel Nails and Spikes
				3316	Cold-Rolled Steel Sheet, Strip, and Bars
				3317	Steel Pipe and Tubes
		F2	Iron and Steel Foundries	3321	Gray and Ductile Iron Foundries
				3322	Malleable Iron Foundries
				3324	Steel Investment Foundries
				3325	Steel Foundries, Not Elsewhere Classified
		F3	Rolling, Drawing, and Extruding of Nonferrous Metals	3351	Rolling, Drawing, and Extruding Of Copper
				3353	Aluminum Sheet, Plate, and Foil
				3354	Aluminum Extruded Products
				3355	Aluminum Rolling and Drawing, Not Elsewhere Classified
				3356	Rolling, Drawing, and Extruding of Nonferrous Metals, Except Copper and Aluminum
				3357	Drawing and Insulating of Nonferrous Wire
		F4	Nonferrous Foundries	3363	Aluminum Die-Castings
				3364	Nonferrous Die-Castings, Except Aluminum
				3365	Aluminum Foundries
				3366	Copper Foundries
				3369	Nonferrous Foundries, Except Aluminum and Copper
		F5	Primary & Secondary Smelting and Refining of Nonferrous Metals and Miscellaneous Primary Metal Products	3331	Primary Smelting and Refining of Copper
				3334	Primary Production of Aluminum
				3339	Primary Smelting and Refining of Nonferrous Metals, Except Copper and Aluminum
				3341	Secondary Smelting and Refining of Nonferrous Metals

				3398	Metal Heat Treating
				3399	Primary Metal Products, Not Elsewhere Classified
G	Metal Mining (Ore Mining and Dressing)	G1	Active Copper Ore Mining, Dressing Facilities	1021	Copper Ores
		G2	Active Metal Mining Facilities	1011	Iron Ores
				1021	Copper Ores
				1031	Lead and Zinc Ores
				1041	Gold Ores
				1044	Silver Ores
				1061	Ferroalloy Ores, Except Vanadium
				1081	Metal Mining Services
				1094	Uranium-Radium-Vanadium Ores
				1099	Miscellaneous Metal Ores, Not Elsewhere Classified
H	Coal Mines and Coal Mining-Related Facilities	H1	Coal Mines and Related Areas	1221	Bituminous Coal and Lignite Surface Mining
				1222	Bituminous Coal Underground Mining
				1231	Anthracite Mining
				1241	Coal Mining Services
I	Oil and Gas Extraction and Refining	I1	Oil and Gas Extraction	1311	Crude Petroleum and Natural Gas
				1321	Natural Gas Liquids
				1381	Drilling Oil and Gas Wells
				1382	Oil and Gas Field Exploration Services
				1389	Oil and Gas Field Services, Not Elsewhere Classified
		I2	Oil Refining	2911	Petroleum Refining
J	Mineral Mining and Dressing	J1	Sand and Gravel Mining	1442	Construction Sand and Gravel
				1446	Industrial Sand
		J2	Dimension, Crushed Stone, Nonmetallic Minerals	1411	Dimension Stone
				1422	Crushed and Broken Limestone
				1423	Crushed and Broken Granite
				1429	Crushed and Broken Stone, Not Elsewhere Classified
				1481	Nonmetallic Minerals Services, Except Fuels
				1499	Miscellaneous Nonmetallic Minerals, Except Fuels
		J3	Clay, Ceramic, Refractory Materials, Chemical and Fertilizer Mineral Mining	1455	Kaolin and Ball Clay
				1459	Clay, Ceramic, and Refractory Minerals, Not Elsewhere Classified
				1474	Potash, Soda, and Borate Minerals
				1475	Phosphate Rock
				1479	Chemical and Fertilizer Mineral Mining, Not Elsewhere Classified
K	Hazardous Waste Treatment, Storage, or Disposal Facilities	K1	Industrial Activity Code HZ. Benchmark Parameters Only Applicable To Discharges Not Subject To Effluent Limitations In 40 CFR Part 445 Subpart A	HZ1	Industrial Activity Code HZ. Benchmark Parameters Only Applicable To Discharges Not Subject To Effluent Limitations In 40 CFR Part 445 Subpart A
		K2	Discharges From Hazardous Waste Landfills Subject To Effluent Limitations In 40 CFR Part 445 Subpart A	HZ2	Discharges From Hazardous Waste Landfills Subject To Effluent Limitations In 40 CFR Part 445 Subpart A
L	Landfills and Land Application Sites	L1	Municipal Solid Waste Landfill (MSWLF) Areas Closed in Accordance with 40 CFR 258.60	LF1	Municipal Solid Waste Landfill (MSWLF) Areas Closed in Accordance with 40 CFR 258.60
		L2	Any Open Or Closed Non-Hazardous Waste Landfills And Land Application Sites, Which Do Not Discharge To **Surface Water(s)**, **Stormwater** That Has Directly	LF2	Any Open Or Closed Non-Hazardous Waste Landfills And Land Application Sites, Which Do Not Discharge To **Surface Water(s)**, **Stormwater** That Has Directly Contacted Solid Waste

			Contacted Solid Waste		
		L3	Any Landfill That Discharges To **Surface Water**(s), **Stormwater** That Has Directly Contacted Solid Waste (pursuant to 40 CFR pt. 445, subp. B.)	LF3	Any Landfill That Discharges To **Surface Water**(s), **Stormwater** That Has Directly Contacted Solid Waste (pursuant to 40 CFR pt. 445, subp. B.)
M	Automobile Salvage Yards	M1	Automobile Salvage Yards	5015	Motor Vehicle Parts, Used
N	Scrap Recycling and Waste Recycling Facilities	N1	Scrap Recycling Facilities	5093	Scrap and Waste Materials
O	Steam Electric Generating Facilities	O1	Coal Fired and Oil Fired Steam Electric Generating Facilities	SE1	Coal Fired and Oil Fired Steam Electric Generating Facilities
		O2	Nuclear, Natural Gas Fired, And Any Other Fuel Source Used For Steam Electric Generation	SE2	Nuclear, Natural Gas Fired, And Any Other Fuel Source Used For Steam Electric Generation
		O3	Runoff from coal storage piles at steam electric generating facilities	SE3	Runoff from coal storage piles at steam electric generating facilities
P	Land Transportation and Warehousing	P1	Rail Transportation Facilities	4011	Railroads, Line-Haul Operating
				4013	Railroad Switching and Terminal Establishments
		P2	Petroleum Bulk Oil Stations and Terminals	5171	Petroleum Bulk stations and Terminals
		P3	Motor Vehicle Facilities	4111	Local and Suburban Transit
				4119	Local Passenger Transportation, Not Elsewhere Classified
				4121	Taxicabs
				4131	Intercity and Rural Bus Transportation
				4141	Local Bus Charter Service
				4142	Bus Charter Service, Except Local
				4151	School Buses
				4173	Terminal and Service Facilities for Motor Vehicle Passenger Transportation
				4212	Local Trucking Without Storage
				4213	Trucking, Except Local
				4214	Local Trucking With Storage
				4215	Courier Services, Except by Air
				4226	Special Warehousing and Storage, Not Elsewhere Classified
				4231	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation
				4311	United States Postal Service
		P4	Warehousing and Storage: General Warehousing, Farm Product Warehousing, Refrigerated Warehousing	4221	Farm Product Warehousing and Storage
				4222	Refrigerated Warehousing and Storage
				4225	General Warehousing and Storage
Q	Water Transportation	Q1	Water Transportation Facilities	4412	Deep Sea Foreign Transportation of Freight
				4424	Deep Sea Domestic Transportation of Freight
				4432	Freight Transportation on the Great Lakes-St. Lawrence Seaway
				4449	Water Transportation of Freight, Not Elsewhere Classified
				4481	Deep Sea Transportation of Passengers, Except by Ferry
				4482	Ferries
				4489	Water Transportation of Passengers, Not Elsewhere Classified
				4491	Marine Cargo Handling
				4492	Towing and Tugboat Services
				4493	Marinas
				4499	Water Transportation Services, Not Elsewhere Classified

R	Ship and Boat Building and Repair Yards	R1	Ship and Boat Building and Repairing Yards	3731	Ship Building and Repairing
				3732	Boat Building and Repairing
S	Air Transportation	S1	Airport transportation facilities that use glycol-based deicing/anti-icing chemicals and/or urea.	4512	Air Transportation, Scheduled
				4513	Air Courier Services
				4522	Air Transportation, Nonscheduled
				4581	Airports, Flying Fields, and Airport Terminal Services
		S2	Airport transportation facilities that do not use any glycol-based deicing/anti-icing chemicals and/or any urea.	4512	Air Transportation, Scheduled
				4513	Air Courier Services
				4522	Air Transportation, Nonscheduled
				4581	Airports, Flying Fields, and Airport Terminal Services
		S3	Existing and new primary airport transportation facilities with 1,000 or more annual non-propeller aircraft departures that discharge wastewater associated with airfield pavement deicing that contains urea commingled with stormwater.	SNEL4	Air Transportation, Scheduled
				SNEL4	Air Courier Services
				SNEL4	Air Transportation, Nonscheduled
				SNEL4	Airports, Flying Fields, and Airport Terminal Services
T	Treatment Works	T1	Treatment Works	TW	Treatment Works
U	Food and Kindred Products	U1	Grain Mill Products	2041	Flour and Other Grain Mill Products
				2043	Cereal Breakfast Foods
				2044	Rice Milling
				2045	Prepared Flour Mixes and Doughs
				2046	Wet Corn Milling
				2047	Dog and Cat Food
				2048	Prepared Feed and Feed Ingredients for Animals and Fowls, Except Dogs and Cats
		U2	Fats and Oils Products	2074	Cottonseed Oil Mills
				2075	Soybean Oil Mills
				2076	Vegetable Oil Mills, Except Corn, Cottonseed, and Soybean
				2077	Animal and Marine Fats and Oils
				2079	Shortening, Table Oils, Margarine, and Other Edible Fats and Oils, Not Elsewhere Classified
		U3	Food and Tobacco Products, Food Preparation Facilities	2011	Meat Packing Plants
				2013	Sausages and Other Prepared Meat Products
				2015	Poultry Slaughtering and Processing
				2021	Creamery Butter
				2022	Natural, Processed, and Imitation Cheese
				2023	Dry, Condensed, and Evaporated Dairy Products
				2024	Ice Cream and Frozen Desserts
				2026	Fluid Milk
				2032	Canned Specialties
				2033	Canned Fruits, Vegetables, Preserves, Jams, and Jellies
				2034	Dried and Dehydrated Fruits, Vegetables, and Soup Mixes
				2035	Pickled Fruits and Vegetables, Vegetable Sauces and Seasonings, and Salad Dressings
				2037	Frozen Fruits, Fruit Juices, and Vegetables
				2038	Frozen Specialties, Not Elsewhere Classified
				2051	Bread and Other Bakery Products, Except Cookies and Crackers
				2052	Cookies and Crackers
				2053	Frozen Bakery Products, Except Bread

				2061	Cane Sugar, Except Refining
				2062	Cane Sugar Refining
				2063	Beet Sugar
				2064	Candy and Other Confectionery Products
				2066	Chocolate and Cocoa Products
				2067	Chewing Gum
				2068	Salted and Roasted Nuts and Seeds
				2082	Malt Beverages
				2083	Malt
				2084	Wines, Brandy, and Brandy Spirits
				2085	Distilled and Blended Liquors
				2086	Bottled and Canned Soft Drinks and Carbonated Waters
				2087	Flavoring Extracts and Flavoring Syrups, Not Elsewhere Classified
				2091	Canned and Cured Fish and Seafoods
				2092	Prepared Fresh or Frozen Fish and Seafoods
				2095	Roasted Coffee
				2096	Potato Chips, Corn Chips, and Similar Snacks
				2097	Manufactured Ice
				2098	Macaroni, Spaghetti, Vermicelli, and Noodles
				2099	Food Preparations, Not Elsewhere Classified
				2111	Cigarettes
				2121	Cigars
				2131	Chewing and Smoking Tobacco and Snuff
				2141	Tobacco Stemming and Redrying
V	Textile Mills, Apparel, and Other Fabric Products Manufacturing	V1	Textile, Fabric, & Apparel Manufacturing, Leather & Leather Products	2211	Broadwoven Fabric Mills, Cotton
				2221	Broadwoven Fabric Mills, Manmade Fiber and Silk
				2231	Broadwoven Fabric Mills, Wool (Including Dyeing and Finishing)
				2241	Narrow Fabric and Other Smallware Mills: Cotton, Wool, Silk, and Manmade Fiber
				2251	Women's Full-Length and Knee-Length Hosiery, Except Socks
				2252	Hosiery, Not Elsewhere Classified
				2253	Knit Outerwear Mills
				2254	Knit Underwear and Nightwear Mills
				2257	Weft Knit Fabric Mills
				2258	Lace and Warp Knit Fabric Mills
				2259	Knitting Mills, Not Elsewhere Classified
				2261	Finishers of Broadwoven Fabrics of Cotton
				2262	Finishers of Broadwoven Fabrics of Manmade Fiber and Silk
				2269	Finishers of Textiles, Not elsewhere Classified
				2273	Carpets and Rugs
				2281	Yarn Spinning Mills
				2282	Yarn Texturizing, Throwing, Twisting, and Winding Mills
				2284	Thread Mills
				2295	Coated Fabrics, Not Rubberized
				2296	Tire Cord and Fabrics
				2297	Non-woven Fabrics
				2298	Cordage and Twine
				2299	Textile goods, Not Elsewhere Classified
				2311	Men's and Boys' Suits, Coats, and Overcoats
				2321	Men's and Boys' Shirts, Except Work Shirts

				2322	Men's and Boys' Underwear and Nightwear
				2323	Men's and Boys' Neckwear
				2325	Men's and Boys' Separate Trousers and Slacks
				2326	Men's and Boys' Work Clothing
				2329	Men's and Boys' Clothing, Not Elsewhere Classified
				2331	Women's, Misses', and Juniors' Blouses and Shirts
				2335	Women's, Misses', and Juniors' Dresses
				2337	Women's, Misses', and Juniors' Suits, Skirts, and Coats
				2339	Women's, Misses', and Juniors' Outerwear, Not Elsewhere Classified
				2341	Women's, Misses', Children's, and Infants' Underwear and Nightwear
				2342	Brassieres, Girdles, and Allied Garments
				2353	Hats, Caps, and Millinery
				2361	Girls', Children's, and Infants' Dresses, Blouses, and Shirts
				2369	Girls', Children's, and Infants' Outerwear, Not Elsewhere Classified
				2371	Fur Goods
				2381	Dress and Work Gloves, Except Knit and All-Leather
				2384	Robes and Dressing Gowns
				2385	Waterproof Outerwear
				2386	Leather and Sheep-Lined Clothing
				2387	Apparel belts
				2389	Apparel and Accessories, Not Elsewhere Classified
				2391	Curtains and Draperies
				2392	House furnishing, Except Curtains and Draperies
				2393	Textile Bags
				2394	Canvas and Related Products
				2395	Pleating, Decorative and Novelty Stitching, and Tucking for the Trade
				2396	Automotive Trimmings, Apparel Findings, and Related Products
				2397	Schiffli Machine Embroideries
				2399	Fabricated Textile Products, Not Elsewhere Classified
				3131	Boot and Shoe Cut Stock and Findings
				3142	House Slippers
				3143	Men's Footwear, Except Athletic
				3144	Women's Footwear, Except Athletic
				3149	Footwear, Except Rubber, Not Elsewhere Classified
				3151	Leather Gloves and Mittens
				3161	Luggage
				3171	Women's Handbags and Purses
				3172	Personal Leather Goods, Except Women's Handbags and Purses
				3199	Leather Goods, Not Elsewhere Classified
W	Furniture and Fixtures	W1	Furniture and Fixtures	2434	Wood Kitchen Cabinets
				2511	Wood Household Furniture, Except Upholstered
				2512	Wood Household Furniture, Upholstered
				2514	Metal Household Furniture
				2515	Mattresses, Foundations, and Convertible Beds
				2517	Wood Television, Radio, Phonograph, and Sewing Machine Cabinets
				2519	Household Furniture, Not Elsewhere Classified
				2521	Wood Office Furniture
				2522	Office Furniture, Except Wood

				2531	Public Building and Related Furniture
				2541	Wood Office and Store Fixtures, Partitions, Shelving, and Lockers
				2542	Office and Store Fixtures, Partitions, Shelving, and Lockers, Except Wood
				2591	Drapery Hardware and Window Blinds and Shades
				2599	Furniture and Fixtures, Not Elsewhere Classified
X	Printing and Publishing	X1	Printing and Publishing	2711	Newspapers: Publishing, or Publishing and Printing
				2721	Periodicals: Publishing, or Publishing and Printing
				2731	Books: Publishing, or Publishing and Printing
				2732	Book Printing
				2741	Miscellaneous Publishing
				2752	Commercial Printing, Lithographic
				2754	Commercial Printing, Gravure
				2759	Commercial Printing, Not Elsewhere Classified
				2761	Manifold Business Forms
				2771	Greeting Cards
				2782	Blankbooks, Looseleaf Binders and Devices
				2789	Bookbinding and Related Work
				2791	Typesetting
				2796	Platemaking and Related Services
Y	Rubber, Miscellaneous Plastic Products, and Miscellaneous Manufacturing Industries	Y1	Fabricated Rubber Products	3011	Tires and Inner Tubes
				3021	Rubber and Plastics Footwear
				3052	Rubber and Plastics Hose and Belting
				3053	Gaskets, Packing, and Sealing Devices
				3061	Molded, Extruded, and Lathe-Cut Mechanical Rubber Goods
				3069	Fabricated Rubber Products, Not Elsewhere Classified
		Y2	Plastic Products	3081	Unsupported Plastics Film and Sheet
				3082	Unsupported Plastics Profile Shapes
				3083	Laminated Plastics Plate, Sheet, and Profile Shapes
				3084	Plastics Pipe
				3085	Plastics Bottles
				3086	Plastics Foam Products
				3087	Custom Compounding of Purchased Plastics Resins
				3088	Plastics Plumbing Fixtures
				3089	Plastics Products, Not Elsewhere Classified
				3931	Musical Instruments
				3942	Dolls and Stuffed Toys
				3944	Games, Toys, and Children's Vehicles, Except Dolls and Bicycles
				3949	Sporting and Athletic Goods, Not Elsewhere Classified
				3951	Pens, Mechanical Pencils, and Parts
				3953	Marking Devices
				3955	Carbon Paper and Inked Ribbons
				3961	Costume Jewelry and Costume Novelties, Except Precious Metal
				3965	Fasteners, Buttons, Needles, and Pins
				3991	Brooms and Brushes
				3993	Signs and Advertising Specialties
				3995	Burial Caskets
				3996	Linoleum, Asphalted-Felt-Base, and Other Hard Surface Floor Coverings, Not Elsewhere Classified
				3999	Manufacturing Industries, Not Elsewhere Classified

Z	Leather Tanning and Finishing	Z1	Leather Tanning and Finishing	3111	Leather Tanning and Finishing
AA	Fabricated Metal Products	AA1	Fabricated Metal Products	3411	Metal Cans
				3412	Metal Shipping Barrels, Drums, Kegs, and Pails
				3421	Cutlery
				3423	Hand and Edge Tools, Except Machine Tools and Handsaws
				3425	Saw Blades and Handsaws
				3429	Hardware, Not Elsewhere Classified
				3431	Enameled Iron and Metal Sanitary Ware
				3432	Plumbing Fixture Fittings and Trim
				3433	Heating Equipment, Except Electric and Warm Air Furnaces
				3441	Fabricated Structural Metal
				3442	Metal Doors, Sash, Frames, Molding, and Trim Manufacturing
				3443	Fabricated Plate Work (Boiler Shops)
				3444	Sheet Metal Work
				3446	Architectural and Ornamental Metal Work
				3448	Prefabricated Metal Buildings and Components
				3449	Miscellaneous Structural Metal Work
				3451	Screw Machine Products
				3452	Bolts, Nuts, Screws, Rivets, and Washers
				3462	Iron and Steel Forgings
				3463	Nonferrous Forgings
				3465	Automotive Stampings
				3466	Crowns and Closures
				3469	Metal Stampings, Not Elsewhere Classified
				3471	Electroplating, Plating, Polishing, Anodizing, and Coloring
				3482	Small Arms Ammunition
				3483	Ammunition, Except for Small Arms
				3484	Small Arms
				3489	Ordnance and Accessories, Not Elsewhere Classified
				3491	Industrial Valves
				3492	Fluid Power Valves and Hose Fittings
				3493	Steel Springs, Except Wire
				3494	Valves and Pipe Fittings, Not Elsewhere Classified
				3495	Wire Springs
				3496	Miscellaneous Fabricated Wire Products
				3497	Metal Foil and Leaf
				3498	Fabricated Pipe and Pipe Fittings
				3499	Fabricated Metal Products, Not Elsewhere Classified
				3911	Jewelry, Precious Metal
				3914	Silverware, Plated Ware, and Stainless Steel Ware
				3915	Jewelers' Findings and Materials, and Lapidary Work
		AA2	Fabricated Metal Coating and Engraving	3479	Coating, Engraving, and Allied Services, Not Elsewhere Classified
AB	Transportation Equipment and Industrial or	AB1	Transportation Equipment and Industrial or Commercial Machinery	3511	Steam, Gas, and Hydraulic Turbines, and Turbine Generator Set Units
				3519	Internal Combustion Engines, Not Elsewhere Classified
				3523	Farm Machinery and Equipment
				3524	Lawn and Garden Tractors and Home Lawn and Garden Equipment

	Commercial Machinery			3531	Construction Machinery and Equipment
				3532	Mining Machinery and Equipment, Except Oil and Gas Field Machinery and Equipment
				3533	Oil and Gas Field Machinery and Equipment
				3534	Elevators and Moving Stairways
				3535	Conveyors and Conveying Equipment
				3536	Overhead Traveling Cranes, Hoists, and Monorail Systems
				3537	Industrial Trucks, Tractors, Trailers, and Stackers
				3541	Machine Tools, Metal Cutting Types
				3542	Machine Tools, Metal Forming Types
				3543	Industrial Patterns
				3544	Special Dies and Tools, Die Sets, Jigs and Fixtures, and Industrial Molds
				3545	Cutting Tools, Machine Tool Accessories, and Machinists' Precision Measuring Devices
				3546	Power-Driven Hand Tools
				3547	Rolling Mill Machinery and Equipment
				3548	Electric and Gas Welding and Soldering Equipment
				3549	Metalworking Machinery, Not Elsewhere Classified
				3552	Textile Machinery
				3553	Woodworking Machinery
				3554	Paper Industries Machinery
				3555	Printing Trades Machinery and Equipment
				3556	Food Products Machinery
				3559	Special Industry Machinery, Not Elsewhere Classified
				3561	Pumps and Pumping Equipment
				3562	Ball and Roller Bearings
				3563	Air and Gas Compressors
				3564	Industrial and Commercial Fans and Blowers and Air Purification Equipment
				3565	Packaging Machinery
				3566	Speed Changers, Industrial High-Speed Drives, and Gears
				3567	Industrial Process Furnaces and Ovens
				3568	Mechanical Power Transmission Equipment, Not Elsewhere Classified
				3569	General Industrial Machinery and Equipment, Not Elsewhere
				3581	Automatic Vending Machines
				3582	Commercial Laundry, Dry Cleaning, and Pressing Machines
				3585	Air-Conditioning and Warm Air Heating Equipment and Commercial and Industrial Refrigeration Equipment
				3586	Measuring and Dispensing Pumps
				3589	Service Industry Machinery, Not Elsewhere Classified
				3592	Carburetors, Pistons, Piston Rings, and Valves
				3593	Fluid Power Cylinders and Actuators
				3594	Fluid Power Pumps and Motors
				3596	Scales and Balances, Except Laboratory
				3599	Industrial and Commercial Machinery and Equipment, Not Elsewhere Classified
				3711	Motor Vehicles and Passenger Car Bodies
				3713	Truck and Bus Bodies
				3714	Motor Vehicle Parts and Accessories
				3715	Truck Trailers
				3716	Motor Homes

				3721	Aircraft
				3724	Aircraft Engines and Engine Parts
				3728	Aircraft Parts and Auxiliary Equipment, Not Elsewhere Classified
				3743	Railroad Equipment
				3751	Motorcycles, Bicycles, and Parts
				3761	Guided Missiles and Space Vehicles
				3764	Guided Missile and Space Vehicle Propulsion Units and Propulsion Unit Parts
				3769	Guided Missile Space Vehicle Parts and Auxiliary Equipment, Not Elsewhere Classified
				3792	Travel Trailers and Campers
				3795	Tanks and Tank Components
				3799	Transportation Equipment, Not Elsewhere Classified
AC	Electronic and Electrical Equipment and Components, Photographic and Optical Goods	AC1	Electronic, Electrical, Photographic, and Optical Goods	3571	Electronic Computers
				3572	Computer Storage Devices
				3575	Computer Terminals
				3577	Computer Peripheral Equipment, Not Elsewhere Classified
				3578	Calculating and Accounting Machines, Except Electronic Computers
				3579	Office Machines, Not Elsewhere Classified
				3812	Search, Detection, Navigation, Guidance, Aeronautical, and Nautical Systems and Instruments
				3821	Laboratory Apparatus and Furniture
				3822	Automatic Controls for Regulating Residential and Commercial Environments and Appliances
				3823	Industrial Instruments for Measurement, Display, and Control of Process Variables; and Related Products
				3824	Totalizing Fluid Meters and Counting Devices
				3825	Instruments for Measuring and Testing of Electricity and Electrical Signals
				3826	Laboratory Analytical Instruments
				3827	Optical Instruments and Lenses
				3829	Measuring and Controlling Devices, Not Elsewhere Classified
				3841	Surgical and Medical Instruments and Apparatus
				3842	Orthopedic, Prosthetic, and Surgical Appliances and Supplies
				3843	Dental Equipment and Supplies
				3844	X-Ray Apparatus and Tubes and Related Irradiation Apparatus
				3845	Electromedical and Electrotherapeutic Apparatus
				3851	Ophthalmic Goods
				3861	Photographic Equipment and Supplies
				3873	Watches, Clocks, Clockwork Operated Devices, and Parts
		AC2	Electronic & Electrical Equipment & Components, except Computers	3612	Power, Distribution, and Specialty Transformers
				3613	Switchgear and Switchboard Apparatus
				3621	Motors and Generators
				3624	Carbon and Graphite Products
				3625	Relays and Industrial Controls
				3629	Electrical Industrial Apparatus, Not Elsewhere Classified
				3631	Household Cooking Equipment
				3632	Household Refrigerators and Home and Farm Freezers
				3633	Household Laundry Equipment
				3634	Electric Housewares and Fans
				3635	Household Vacuum Cleaners
				3639	Household Appliances, Not Elsewhere Classified

				3641	Electric Lamp Bulbs and Tubes
				3643	Current-Carrying Wiring Devices
				3644	Noncurrent-Carrying Wiring Devices
				3645	Residential Electric Lighting Fixtures
				3646	Commercial, Industrial, and Institutional Electric Lighting Fixtures
				3647	Vehicular Lighting Equipment
				3648	Lighting Equipment, Not Elsewhere Classified
				3651	Household Audio and Video Equipment
				3652	Phonograph Records and Prerecorded Audio Tapes and Disks
				3661	Telephone and Telegraph Apparatus
				3663	Radio and Television Broadcasting and Communications Equipment
				3669	Communications Equipment, Not Elsewhere Classified
				3671	Electron Tubes
				3672	Printed Circuit Boards
				3674	Semiconductors and Related Devices
				3675	Electronic Capacitors
				3676	Electronic Resistors
				3677	Electronic Coils, Transformers, and Other Inductors
				3678	Electronic Connectors
				3679	Electronic Components, Not Elsewhere Classified
				3691	Storage Batteries
				3692	Primary Batteries, Dry and Wet
				3694	Electrical Equipment for Internal Combustion Engines
				3695	Magnetic And Optical Recording Media
				3699	Electrical Machinery, Equipment, and Supplies, Not Elsewhere

APPENDIX B. SECTOR-SPECIFIC BENCHMARK VALUES AND EFFLUENT LIMITATIONS

Permittees may be subject to requirements for more than one sector or subsector.
*All footnotes are located on the last page of this Appendix B.

Table A-1

Subsector	Parameter	Benchmark Values	Effluent limits
A1 General Sawmills/Planing Mills	COD (Chemical Oxygen Demand)	120 mg/L	N/A
	Solids, Total Suspended (TSS)	100 mg/L [2]	N/A
	Zinc, Total (as Zn)	0.234 mg/L [1]	N/A
A2 Wood Preserving	Arsenic, Total (as As)	0.680 mg/L	N/A
	Chromium, Total (as Cr)	3.5 mg/L [1]	N/A
	Copper, Total (as Cu)	0.028 mg/L [1]	N/A
	Pentachlorophenol (PCP)	0.011 mg/L	N/A
	Solids, Total Suspended (TSS)	100 mg/L [2]	N/A
A3 Log Storage and Handling	Solids, Total Suspended (TSS)	100 mg/L [2]	N/A
A4 Discharges From Wet Decking Storage Areas	Debris	N/A	≤2.54cm (1 inch) instantaneous maximum (visual assessment) [3]
	pH[4]	N/A	6.0 SU, instantaneous minimum 9.0 SU, instantaneous maximum
A5 Hardwood Dimension and Flooring Mills	COD (Chemical Oxygen Demand)	120 mg/L	N/A
	Solids, Total Suspended (TSS)	100 mg/L [2]	N/A

Table B-1

Subsector	Parameter	Benchmark Values
B1 Pulp, Paper, Cardboard, Converted Paper and Paperboard Products	COD (Chemical Oxygen Demand)	120 mg/L
	Solids, Total Suspended (TSS)	100 mg/L [2]

Table C-1

Subsector	Parameter	Benchmark Values	Effluent Limits
C1 Phosphate Subcategory of Agricultural Chemicals	Fluoride, Total (as F)	N/A	75 mg/L calendar year maximum
			25 mg/L calendar year average
	Phosphorus, Total (as P)	N/A	105 mg/L calendar year maximum

			35 mg/L calendar year average
C2 Agricultural Chemicals	Lead, Total (as Pb)	0.164 mg/L [1]	N/A
	Phosphorus, Total (as P)	1.0 mg/L	N/A
	Solids, Total Suspended (TSS)	100 mg/L [2]	N/A
	Zinc, Total (as Zn)	0.234 mg/L [1]	N/A
C3 Industrial Inorganic Chemicals	Aluminum, Total (as Al)	1.5 mg/L	N/A
	Solids, Total Suspended (TSS)	100 mg/L [2]	N/A
	Zinc, Total (as Zn)	0.234 mg/L [1]	N/A
C4 Soaps, Detergents, Cosmetics, Perfumes	Solids, Total Suspended (TSS)	100 mg/L [2]	N/A
	Zinc, Total (as Zn)	0.234 mg/L [1]	N/A
C5 Plastics, Synthetics, Resins	BOD, Carbonaceous 05 Day (20 Deg C)	25 mg/L	N/A
	Solids, Total Suspended (TSS)	100 mg/L [2]	N/A
	Zinc, Total (as Zn)	0.234 mg/L [1]	N/A
C6 Medicinal Chemicals and Botanical Products	Solids, Total Suspended (TSS)	100 mg/L [2]	N/A
C7 Ethanol Facilities	BOD, Carbonaceous 05 Day (20 Deg C)	25 mg/L	N/A
	Solids, Total Suspended (TSS)	100 mg/L [2]	N/A

Table D-1

Subsector	Parameter	Benchmark Values	Effluent Limits
D1 Asphalt Paving and Roofing Materials	Solids, Total Suspended (TSS)	100 mg/L [2]	N/A
D2 Discharges from Production of Asphalt Emulsions Areas	Oil & Grease, Total	N/A	15 mg/L calendar year maximum
			10 mg/L calendar year average
	pH	N/A	6.0 SU, instantaneous minimum 9.0 SU, instantaneous maximum
	Solids, Total Suspended (TSS)	N/A	23 mg/L calendar year maximum
			15 mg/L calendar year average
D3 Miscellaneous Products of Petroleum and Coal	Solids, Total Suspended (TSS)	100 mg/L [2]	N/A

Table E-1

Subsector	Parameter	Benchmark Values	Effluent Limits
E1 Clay Products Manufacturers	Aluminum, Total (as Al)	1.5 mg/L	N/A
	Solids, Total Suspended (TSS)	100 mg/L [2]	N/A
E2 Concrete and Gypsum Product Manufacturers	Solids, Total Suspended (TSS)	100 mg/L [2]	N/A
E3 Cement Manufacturing Facility, Material Storage Runoff	pH	N/A	6.0 SU, instantaneous minimum 9.0 SU, instantaneous maximum
	Solids, Total Suspended (TSS)	N/A	50 mg/L calendar year maximum
E4 Glass, Stone, Abrasive, and Asbestos Manufacturing	Solids, Total Suspended (TSS)	100 mg/L [2]	N/A

Table F-1

Subsector	Parameter	Benchmark Values
F1 Steel Works, Blast Furnaces, and Rolling and Finishing Mills	Aluminum, Total (as Al)	1.5 mg/L
	Solids, Total Suspended (TSS)	100 mg/L [2]
	Zinc, Total (as Zn)	0.234 mg/L [1]
F2 Iron and Steel Foundries	Aluminum, Total (as Al)	1.5 mg/L
	Copper, Total (as Cu)	0.028 mg/L [1]
	Solids, Total Suspended (TSS)	100 mg/L [2]
	Zinc, Total (as Zn)	0.234 mg/L [1]
F3 Rolling, Drawing, and Extruding of Nonferrous Metals	Copper, Total (as Cu)	0.028 mg/L [1]
	Solids, Total Suspended (TSS)	100 mg/L [2]
	Zinc, Total (as Zn)	0.234 mg/L [1]
F4 Nonferrous Foundries	Copper, Total (as Cu)	0.028 mg/L [1]
	Solids, Total Suspended (TSS)	100 mg/L [2]
	Zinc, Total (as Zn)	0.234 mg/L [1]
F5 Primary & Secondary Smelting and Refining of Nonferrous Metals and Miscellaneous Primary Metal Products	Solids, Total Suspended (TSS)	100 mg/L [2]

Table G-1

Subsector	Parameter	Benchmark Values
G1 Active Copper Ore Mining, Dressing Facilities	COD (Chemical Oxygen Demand)	120 mg/L
	Nitrite Plus Nitrate, Total (as N)	0.68 mg/L
	Solids, Total Suspended (TSS)	100 mg/L [2]

Table G-2

Sector-Specific Benchmark Monitoring Values from Waste Rock and Overburden Piles at Active Metal Mining Facilities. Discharges may be subject to requirements for more than one sector or subsector.

Subsector	Parameter	Benchmark Values
G2 Active Metal Mining Facilities	Antimony, Total (as Sb)	0.18 mg/L
	Arsenic, Total (as As)	0.680 mg/L
	Cadmium, Total (as Cd) [1]	0.0078 mg/L [5]
	Copper, Total (as Cu) [1]	0.028 mg/L [5]
	Lead, Total (as Pb) [1]	0.164 mg/L [5]
	Nickel, Total (as Ni) [1]	0.938 mg/L [5]
	pH [4]	6.0-9.0 SU
	Selenium, Total (as Se)	0.040 mg/L
	Silver, Total (as Ag) [1]	0.0041 mg/L [5]
	Solids, Total Suspended (TSS)	100 mg/L [2]
	Zinc, Total (as Zn) [1]	0.234 mg/L [5]

Table H-1

Subsector	Parameter	Benchmark Values
H1 Coal Mines and Related Areas	Aluminum, Total (as Al)	1.5 mg/L
	pH [4]	6.0-9.0 SU
	Solids, Total Suspended (TSS)	100 mg/L [2]

Table I-1

Subsector	Parameter	Benchmark Values
I1 Oil and Gas Extraction	pH [4]	6.0-9.0 SU
	Solids, Total Suspended (TSS)	100 mg/L [2]
I2 Oil Refining	Nitrogen, Ammonia, Total (as N)	2.8 mg/L
	Solids, Total Suspended (TSS)	100 mg/L [2]
	Zinc, Total (as Zn)	0.234 mg/L [1]

Table J-1

Subsector	Parameter	Benchmark Values
J1 Sand and Gravel Mining	Solids, Total Suspended (TSS)	100 mg/L [2]
J2 Dimension, Crushed Stone, Nonmetallic Minerals	Solids, Total Suspended (TSS)	100 mg/L [2]
J3 Clay, Ceramic, Refractory Materials, Chemical and Fertilizer Mineral Mining	Solids, Total Suspended (TSS)	100 mg/L [2]

Table K-1

Subsector	Parameter	Benchmark Values	Effluent Limits
K1 Industrial Activity Code HZ. Benchmark Parameters Only Applicable To Discharges Not Subject To Effluent Limitations In 40 CFR Part 445 Subpart A	Arsenic, Total (as As)	0.680 mg/L	N/A
	BOD, Carbonaceous 05 Day (20 Deg C)	25 mg/L	N/A
	Cadmium, Total (as Cd)	0.0078 mg/L [1]	N/A
	Chromium, Total (as Cr)	3.5 mg/L [1]	N/A
	COD (Chemical Oxygen Demand)	120 mg/L	N/A
	Cyanide, Total (as CN)	0.045 mg/L	N/A
	Lead, Total (as Pb)	0.164 mg/L [1]	N/A
	Nitrogen, Ammonia, Total (as N)	2.8 mg/L	N/A
	pH [4]	6.0-9.0 SU	N/A
	Selenium, Total (as Se)	0.040 mg/L	N/A
	Silver, Total (as Ag)	0.0041 mg/L [1]	N/A
	Solids, Total Suspended (TSS)	100 mg/L [2]	N/A
	Zinc, Total (as Zn)	0.234 mg/L [1]	N/A
K2[6] Discharges From Hazardous Waste Landfills Subject To Effluent Limitations In 40 CFR Part 445 Subpart A	Alpha-Terpineol	N/A	0.042 mg/L calendar year maximum 0.019 mg/L calendar year average
	Aniline	N/A	0.024 mg/L calendar year maximum 0.015 mg/L calendar year average
	Arsenic, Total (as As)	N/A	1.1 mg/L calendar year maximum 0.54 mg/L calendar year average
	Benzoic Acid	N/A	0.119 mg/L calendar year maximum 0.073 mg/L calendar year average
	BOD, Carbonaceous 05 Day (20 Deg C)	N/A	220 mg/L calendar year maximum 56 mg/L calendar year average
	Chromium, Total (as Cr)	N/A	1.1 mg/L calendar year maximum

			0.46 mg/L calendar year average
	Naphthalene	N/A	0.059 mg/L calendar year maximum
			0.022 mg/L calendar year average
	Nitrogen, Ammonia, Total (as N)	N/A	10 mg/L calendar year maximum
			4.9 mg/L calendar year average
	p-Cresol	N/A	0.024 mg/L calendar year maximum
			0.015 mg/L calendar year average
	pH	N/A	6.0 SU, instantaneous minimum 9.0 SU, instantaneous maximum
	Phenol	N/A	0.048 mg/L calendar year maximum
			0.029 mg/L calendar year average
	Pyridine	N/A	0.072 mg/L calendar year maximum
			0.025 mg/L calendar year average
	Solids, Total Suspended (TSS)	N/A	88 mg/L calendar year maximum
			27 mg/L calendar year average
	Zinc, Total (as Zn)	N/A	0.535 mg/L calendar year maximum
			0.296 mg/L calendar year average

Table L-1

Subsector	Parameter	Benchmark Values	Effluent Limits
L1 Municipal Solid Waste Landfill (MSWLF) Areas Closed In Accordance With 40 CFR § 258.60	Solids, Total Suspended (TSS)	100 mg/L [2]	N/A
L2 Any Open Or Closed Non-Hazardous Waste Landfills And Land Application Sites, Which Do Not Discharge To **Surface Water(s)**, **Stormwater** That Has Directly Contacted Solid Waste.	Solids, Total Suspended (TSS)	100 mg/L [2]	N/A
L3 [6] Any Landfill That Discharges To **Surface Water**(s), **Stormwater** That Has Directly Contacted Solid Waste (pursuant to 40 CFR pt. 445, subp. B.)	BOD, Carbonaceous 05 Day (20 Deg C)	25 mg/L	140 mg/L calendar year maximum
			37 mg/L calendar year average
	Solids, Total Suspended (TSS)	100 mg/L [2]	88 mg/L calendar year maximum
			27 mg/L calendar year average
	Nitrogen, Ammonia, Total (as N)	2.8 mg/L	10 mg/L calendar year maximum
			4.9 mg/L calendar year average
	Alpha-Terpineol	N/A	0.033 mg/L calendar year maximum
			0.016 mg/L calendar year average

	Benzoic acid	N/A	0.12 mg/L calendar year maximum
			0.071 mg/L calendar year average
	P-Cresol	N/A	0.025 mg/L calendar year maximum
			0.014 mg/L calendar year average
	Phenol	N/A	0.026 mg/L calendar year maximum
			0.015 mg/L calendar year average
	Zinc, Total (as Zn)	0.234 mg/L [1]	0.20 mg/L calendar year maximum
			0.11 mg/L calendar year average
	pH [4]	6.0-9.0 SU	6.0 SU, instantaneous minimum 9.0 SU, instantaneous maximum

Table M-1

Subsector	Parameter	Benchmark Values
M1 Automobile Salvage Yards	Aluminum, Total (as Al)	1.5 mg/L
	Benzene	9.0 mg/L
	Ethylbenzene	3.7 mg/L
	Lead, Total (as Pb)	0.164 mg/L [1]
	Solids, Total Suspended (TSS)	100 mg/L [2]
	Toluene	2.7 mg/L
	Xylene	2.8 mg/L

Table N-1

Subsector	Parameter	Benchmark Values
N1 Scrap Recycling Facilities	Aluminum, Total (as Al)	1.5 mg/L
	COD (Chemical Oxygen Demand)	120 mg/L
	Copper, Total (as Cu)	0.028 mg/L [1]
	Lead, Total (as Pb)	0.164 mg/L [1]
	pH [4]	6.0-9.0 SU
	Solids, Total Suspended (TSS)	100 mg/L [2]
	Zinc, Total (as Zn)	0.234 mg/L [1]

Table O-1

Subsector	Parameter	Benchmark Values	Effluent Limits
O1 Coal Fired and Oil Fired Steam Electric Generating Facilities	Solids, Total Suspended (TSS)	100 mg/L [2]	N/A
O2 Nuclear, Natural Gas Fired, And Any Other Fuel Source Used For Steam Electric Generation	Solids, Total Suspended (TSS)	100 mg/L [2]	N/A
O3 Runoff From Coal Storage Piles At Steam Electric Generating Facilities	pH	N/A	6.0 SU, instantaneous minimum 9.0 SU, instantaneous maximum
	Solids, Total Suspended (TSS)	N/A	50 mg/L calendar year maximum [7]

Table P-1

Subsectors	Parameter	Benchmark Values
P1 Rail Transportation Facilities	Solids, Total Suspended (TSS)	100 mg/L [2]
P2 Petroleum Bulk Oil Stations and Terminals	Solids, Total Suspended (TSS)	100 mg/L [2]
P3 Motor Vehicle Facilities	Solids, Total Suspended (TSS)	100 mg/L [2]
P4 [8] Warehousing and Storage: General Warehousing, Farm Product Warehousing, Refrigerated Warehousing	Solids, Total Suspended (TSS)	100 mg/L [2]

Table Q-1

Subsector	Parameter	Benchmark Values
Q1 Water Transportation Facilities	Aluminum, Total (as Al)	1.5 mg/L
	Lead, Total (as Pb)	0.164 mg/L [1]
	Solids, Total Suspended (TSS)	100 mg/L [2]
	Zinc, Total (as Zn)	0.234 mg/L [1]

Table R-1

Subsector	Parameter	Benchmark Values
R1 Ship and Boat Building and Repairing Yards	Solids, Total Suspended (TSS)	100 mg/L [2]

Table S-1

Subsector	Parameter	Benchmark Values	Effluent Limits
S1 Airport transportation facilities that use glycol-based deicing/anti-icing chemicals and/or urea.	BOD, Carbonaceous 05 Day (20 Deg C)	25 mg/L	N/A
	Chemical Oxygen Demand (COD)	120 mg/L	N/A
	Nitrogen, Ammonia, Total (as N)	2.8 mg/L	N/A
	Solids, Total Suspended (TSS)	100 mg/L [2]	N/A
S2 Airport transportation facilities that do not use any glycol-based deicing/anti-icing chemicals and/or any urea.	Solids, Total Suspended (TSS)	100 mg/L [2]	N/A
S3 Existing and new primary airport transportation facilities[9] with 1,000 or more annual non-propeller aircraft departures that discharge wastewater associated with airfield pavement deicing that contains urea commingled with **stormwater**.	Nitrogen, Ammonia, Total (as N)	N/A	14.7 mg/L, calendar year maximum

Table T-1

Subsector	Parameter	Benchmark Values
T1 Treatment Works	BOD, Carbonaceous 05 Day (20 Deg C)	25 mg/L
	Solids, Total Suspended (TSS)	100 mg/L [2]

Table U-1

Subsector	Parameter	Benchmark Values
U1 Grain Mill Products	Solids, Total Suspended (TSS)	100 mg/L [2]
U2 Fats and Oils Products	BOD, Carbonaceous 05 Day (20 Deg C)	25 mg/L
	COD (Chemical Oxygen Demand)	120 mg/L
	Nitrogen, Ammonia, Total (as N)	2.8 mg/L
	Solids, Total Suspended (TSS)	100 mg/L [2]
U3 Food and Tobacco Products, Food Preparation Facilities	BOD, Carbonaceous 05 Day (20 Deg C)	25 mg/L
	COD (Chemical Oxygen Demand)	120 mg/L
	Nitrogen, Ammonia, Total (as N)	2.8 mg/L
	Phosphorus, Total (as P)	1.0 mg/L
	Solids, Total Suspended (TSS)	100 mg/L [2]

Table V-1

Subsector	Parameter	Benchmark Value
V1 Textile, Fabric, & Apparel Manufacturing, Leather & Leather Products	Solids, Total Suspended (TSS)	100 mg/L [2]

Table W-1

Subsector	Parameter	Benchmark Value
W1 Furniture and Fixtures	Solids, Total Suspended (TSS)	100 mg/L [2]

Table X-1

Subsector	Parameter	Benchmark Values
X1 Printing and Publishing	Silver, Total (as Ag)	0.0041 mg/L [1]
	Solids, Total Suspended (TSS)	100 mg/L [2]

Table Y-1

Subsector	Parameter	Benchmark Values
Y1 Fabricated Rubber Products	Lead, Total (as Pb)	0.164 mg/L [1]
	Solids, Total Suspended (TSS)	100 mg/L [2]
	Zinc, Total (as Zn)	0.234 mg/L [1]
Y2 Plastic Products	Solids, Total Suspended (TSS)	100 mg/L [2]

Table Z-1

Subsector	Parameter	Benchmark Values
Z1 Leather Tanning and Finishing	BOD, Carbonaceous 05 Day (20 Deg C)	25 mg/L
	Chromium, Total (as Cr)	3.5 mg/L [1]
	Solids, Total Suspended (TSS)	100 mg/L [2]

Table AA-1

Subsector	Parameter	Benchmark Values
AA1 Fabricated Metal Products	Aluminum, Total (as Al)	1.5 mg/L
	Solids, Total Suspended (TSS)	100 mg/L [2]
	Zinc, Total (as Zn)	0.234 mg/L [1]
AA2 Fabricated Metal Coating and Engraving	Solids, Total Suspended (TSS)	100 mg/L [2]
	Zinc, Total (as Zn)	0.234 mg/L [1]

Table AB-1

Subsector	Parameter	Benchmark Value
AB1 Transportation Equipment and Industrial or Commercial Machinery	Solids, Total Suspended (TSS)	100 mg/L [2]

Table AC-1

Subsector	Parameter	Benchmark Values
AC1 Electronic, Electrical, Photographic, and Optical Goods	Solids, Total Suspended (TSS)	100 mg/L [2]
AC2 Electronic & Electrical Equipment & Components, except Computers	Copper, Total (as Cu)	0.028 mg/L [1]
	Lead, Total (as Pb)	0.164 mg/L [1]
	Solids, Total Suspended (TSS)	100 mg/L [2]

Footnotes – Appendix B:

1. The benchmark values of some metals are influenced by water hardness. For these parameters, the Permittee may determine the hardness of the stormwater discharges to identify the applicable 'hardness range' for determining their benchmark value. See Appendix C for hardness dependent benchmark values in accordance with Minn. R. 7050.0222 and Minn. R. 7052.0100.
2. If the Permittee is required to comply with the additional required BMPs in the Additional Requirements for Discharges to Special (Prohibited, Restricted, Other) and Impaired Waters section of this permit, the benchmark value for Solids, Total Suspended (TSS) is 65 mg/L, instead of 100 mg/L.
3. The Permittee is authorized under this permit to conduct a visual observation sufficient to determine the presence of debris that will not pass through a 2.54 cm (1 inch) round opening and is not required to use a laboratory certified by the MDH or registered by the MPCA for this analysis.
4. For purposes of benchmark pH monitoring, the Permittee is required to report instantaneous results only, and not a calculation of pH averages. pH measurements are logarithmic, and the MPCA will be performing a logarithmic average for this parameter using the instantaneous results submitted.
5. Values given are for total hardness of 100 mg/L only.
6. As set forth at 40 CFR pt. 445 Subpart A, these numeric limitations apply to contaminated stormwater discharges from hazardous waste landfills subject to the provisions of RCRA Subtitle C at 40 CFR pt. 264 (subp. N) and 265 (subp. N) except for any of the following facilities:
    a. landfills operated in conjunction with other industrial or commercial operations when the landfill receives only wastes generated by the industrial or commercial operation directly associated with the landfill;
    b. landfills operated in conjunction with other industrial or commercial operations when the landfill receives wastes generated by the industrial or commercial operation directly associated with the landfill and also receives other wastes, provided that the other wastes received for disposal are generated by a facility that is subject to the same provisions in 40 CFR Subchapter N as the industrial or commercial operation or that the other wastes received are of similar nature to the wastes generated by the industrial or commercial operation;
    c. landfills operated in conjunction with Centralized Waste Treatment (CWT) facilities subject to 40 CFR pt. 437, so long as the CWT facility commingles the landfill wastewater with other non-landfill wastewater for discharge. A landfill directly associated with a CWT facility is subject to this part if the CWT facility discharges landfill wastewater separately from other CWT wastewater or commingles the wastewater from its landfill only with wastewater from other landfills; or
    d. landfills operated in conjunction with other industrial or commercial operations when the landfill receives wastes from public service activities, so long as the company owning the landfill does not receive a fee or other remuneration for the disposal service.
7. If the facility is designed, constructed, and operated to treat the volume of coal pile runoff that is associated with a 10-year, 24-hour rainfall event, any untreated overflow of coal pile runoff from the treatment unit is not subject to the 50 mg/L limitation for total suspended solids.
8. SIC codes 4221-4225 are not limited by vehicle/equipment maintenance.
9. See sector specific definition S.4.d. for primary airport.

APPENDIX C. CALCULATING HARDNESS IN DISCHARGE WATERS FOR HARDNESS DEPENDENT METALS

The MPCA allows adjustment of benchmark values for seven hardness-dependent metals (i.e. cadmium, chromium +3, copper, lead, nickel, silver, and zinc) to provide flexibility in compliance with benchmark values in this permit. For any sector required to conduct benchmark monitoring for a hardness-dependent metal, the MPCA includes "hardness ranges" from which benchmark values can be determined. The Permittee has the option to use the default value of 100 mg/L total hardness or to use another range if that is appropriate for the industrial stormwater discharge. To determine which hardness range to use, the Permittee must collect data on the hardness of the industrial stormwater discharge. Once the site-specific hardness data have been collected, the corresponding benchmark value for each metal is determined by comparing where the hardness data fall within 25 mg/L ranges, as shown in Table 1.

Table 1

	Benchmark Values (mg/L, total)						
Standard	**Minn. R 7050.0222 Class 2A**	**Minn. R 7050.0222 Class 2A&2B**	**Minn. R 7052.0100**	**Minn. R 7050.0222 Class 2A&2B**	**Minn. R 7052.0100**	**Minn. R 7050.0222 Class 2A&2B**	**Minn. R 7050.0222 Class 2A&2B**
Hardness in mg/L total	**Cadmium Cd**	***Chromium + 3 Cr3**	**Copper Cu**	**Lead Pb**	**Nickel Ni**	**Silver Ag**	**Zinc Zn**
100 or less	0.0078	3.4690	0.0280	0.1637	0.9383	0.0041	0.2341
>100-125	0.0090	3.8204	0.0313	0.1902	1.0366	0.0050	0.2586
>125-150	0.0112	4.5028	0.0479	0.2455	3.7133	0.0070	0.3066
>150-175	0.0136	5.1630	0.0560	0.3037	4.2770	0.0094	0.3532
>175-200	0.0159	5.8049	0.0641	0.3644	4.8275	0.0120	0.3987
>200-225	0.0184	6.4316	0.0722	0.4274	5.3667	0.0148	0.4433
>225-250	0.0208	7.0450	0.0801	0.4924	5.8962	0.0180	0.4871
>250-275	0.0233	7.6467	0.0881	0.5593	6.4172	0.0213	0.5302
>275-300	0.0258	8.2382	0.0959	0.6279	6.9306	0.0250	0.5727
>300-325	0.0284	8.8205	0.1038	0.6983	7.4371	0.0288	0.6146
>325-350	0.0309	9.3943	0.1116	0.7701	7.9374	0.0329	0.6560
>350-375	0.0335	9.9605	0.1194	0.8435	8.4321	0.0372	0.6970
>375-400	0.0361	10.5197	0.1271	0.9182	8.9215	0.0417	0.7375
>400	0.0375	10.7968	0.1310	0.9561	9.1644	0.0440	0.7576

** Measured as Chromium, Total (as Cr)*

APPENDIX D. PRIMARY SIC CODES THAT REQUIRE PER-AND POLYFLUOROALKYL SUBSTANCES (PFAS) MONITORING AND PFAS MONITORING PARAMETERS

* Standard Industrial Classification (SIC) Codes subject to PFAS Monitoring Requirements		
Sector	**SIC Code**	**SIC – Nar. Act. Description ***
B	2621	Paper Mills
B	2656	Sanitary Food Containers, Except Folding
B	2671	Packaging Paper and Plastics Film, Coated and Laminated
B	2672	Paper; Coated and Laminated, Nec
B	2673	Bags: Plastic, Laminated, and Coated
C	2821	"Fluoro-polymer resins manufacturing (Plastics Materials, Synthetic Resins, and Nonvulcanizable Elastomers)"/Plastics Materials and Resins
C	2824	Manmade Organic Fibers, Except Cellulosic
C	2842	Specialty Cleaning, Polishing, and Sanitation Preparations
C	2844	Perfumes, Cosmetics, and Other Toilet Preparations
C	2851	Paints, Varnishes, Lacquers, Enamels, and Allied Products
C	2899	Chemicals and Chemical Preparations, Not Elsewhere Classified
D	2952	Asphalt Felts and Coatings
D	2992	Lubricating Oils and Greases
F	3399	Primary Metal Products, Not Elsewhere Classified
I	2911	Petroleum Refining
N	5093	Scrap and Waste Materials
S	4581	Airports, Flying Fields, and Services
V	2221	Broadwoven Fabric Mills, Manmade Fiber and Silk
V	2262	Finishers of Broadwoven Fabrics of Manmade Fiber and Silk
V	2273	Carpets and Rugs
V	2295	Coated Fabrics, Not Rubberized
V	2297	Non-woven Fabrics
V	2299	Textile goods, Not Elsewhere Classified
V	2385	Waterproof Outerwear
V	3131	Boot and Shoe Cut Stock and Findings
V	3161	Luggage
V	3172	Personal Leather Goods, Nec
V	3199	Leather Goods, Nec
X	2752	Commercial Printing, Lithographic
X	2796	Platemaking and Related Services
Y	3069	Fabricated Rubber Products, Nec
Y	3081	Unsupported Plastics Film and Sheet
Y	3082	Unsupported Plastics Profile Shapes
Y	3083	Laminated Plastics Plate, Sheet, and Profile Shapes
Z	3111	Leather Tanning and Finishing
AA	3471	Electroplating, Plating, Polishing, Anodizing, and Coloring
AA	3497	Metal Foil and Leaf
AB	3567	Industrial Furnaces and Ovens
AB	3589	Service Industry Machinery, Not Elsewhere Classified
AB	3599	Industrial and Commercial Machinery and Equipment, Not Elsewhere Classified
AC	3674	Semiconductors and Related Devices
AC	3695	"Magnetic Tape Manufacturing Operations"/Magnetic and Optical Recording Media

AC	3841	Surgical and Medical Instruments and Apparatus
AC	3861	Photographic Equipment and Supplies

Permittees with a primary SIC code associated with PFAS must monitor for all 40 PFAS analytes within U.S. EPA's Method 1633:

PFAS Analytes		
PFBA	PFPeA	PFHxA
PFHpA	PFOA	PFNA
PFDA	PFUnA	PFDoA
PFTrDA	PFTeDA	PFBS
PFPeS	PFHxS	PFHpS
PFOS	PFNS	PFDS
PFDoS	PFOSA	PFEESA
4:2FTS	6:2FTS	8:2FTS
PFMBA	NMeFOSA	NMeFOSAA
NEtFOSA	NEtFOSAA	NMeFOSE
NEtFOSE	HFPO-DA (GenX Chemicals)	ADONA
PFMPA	NFDHA	3:3FTCA
9Cl-PF3ONS	11Cl-PF3OUdS	5:3FTCA
7:3FTCA		

APPENDIX E. EXAMPLE OF COPY OF RECORD FOR PERMIT COVERAGE

SERVICE INFORMATION

Service ID: 30593
Service Type: General Permit and No Exposure Certification Application
Created On:

Location

Facility Name:
Address Line 1:
Address Line 2:
Address Line 3:
State:
County:
City:
ZIP/Postal Code:
Coordinate System:
Latitude:
Longitude:
Collection Date:
Collection Method:
Reference Point:
Description of Business Activity:

Location Description:
Industrial Activities
Acreage:
Is the site located within Indian Country?:

Contacts

Name:
Title:
Contact Type:
Organization Name:
Organization Type:
E-Mail:
Phone:
Contact Address:

Name:
Title:
Contact Type:
Organization Name:
Organization Type:
E-Mail:
Phone:
Contact Address:

Name:
Title:
Contact Type:
Organization Name:
Organization Type:
E-Mail:
Phone:

Contact Address:

Name:
Title:
Contact Type:
Organization Name:
Organization Type:
E-Mail:
Phone:
Contact Address:

SUBMITTAL DISPLAY

Facility Search

Sectors

Primary	*Sector	*SIC/Narrative Activities	Subsector

No SIC/Narrative Activities:

No Exposure Exclusion

Material or Activity A- Do you or will you conduct any industrial activities outdoors that may be exposed to stormwater?:

Material or Activity B- Do you or will you have, use, clean, or maintain any industrial or commercial equipment outdoors that may be exposed to stormwater? Examples include cutting, welding, painting, sandblasting, etc:

Material or Activity C- Are there any spills or leaks outside on the ground, within storm drains, or in stormwater inlets?:

Material or Activity D- Do you have any equipment, products, or residual pollution from previous owners or past industrial activities outside that may be exposed to stormwater?:

Material or Activity E- Do you or will you have any facility equipment or inadequately maintained vehicles outside that may be exposed to stormwater?:

Material or Activity F- Do you or will you have any fueling activities outside?:

Material or Activity G- Do you or will you have any loading, unloading, or transporting of materials, products or waste materials that may be exposed to stormwater?:

Material or Activity H- Do you have any storage of materials or products that may be exposed to stormwater, except for final products intended to be outside, such as new cars, culverts, etc?:

Material or Activity I- Are any materials contained in open, deteriorated, or leaking drums, totes, barrels, tanks, or similar containers that may be exposed to stormwater?:

Material or Activity J- Do you or will you have waste materials that may be exposed to stormwater?:

Material or Activity K- Do you have a road or railway located at your facility that is owned or maintained by your facility? If yes, are there materials, products or waste that is or will be stockpiled or transferred on that road or railway that may be exposed to stormwater?:

Material or Activity L- Do you or will you have outside disposal of unpermitted wastewater?:

Material or Activity M- Do you or will you have any particulate matter or visible deposits of residuals from roof stacks or vents on the ground or in stormwater discharges?:

Application Readiness

I have read the permit and my facility is eligible according to the permit:
I have developed a Stormwater Pollution Prevention Plan (SWPPP) as required by the General Permit:
I am ready to make payment:
My project is not located within Indian Country. A project located within Indian Country must obtain permit coverage from the U.S. Environmental Protection Agency (USEPA), not the MPCA:

Prevention Opportunities

Have you implemented any prevention activities in the past year?:
How did you do it?:
Would you like to be contacted to discuss prevention opportunities?:

Environmental Review

Has this facility been petitioned for an environmental review?:

Was an environmental review required for this facility?:

Waterbodies

Are there surface waters within one mile of your facility that receive your industrial stormwater discharges?:

*Waterbody Name	*Type	*Special Water?	*Impaired Water?

Does your industrial stormwater discharge into a street curb drain or into a manhole cover? (This is a regulated Municipal Separate Storm Sewer System (MS4))?:

If yes, who owns the MS4?:

Monitoring Locations

Location ID:

Brief Monitoring Location Description:

Status: Active / Existing

Subsector:

Subsector Associated with Location

Coordinate System: Lat Long - decimal degrees

Latitude:

Electronic Signature

Signator:
Signator ID:
Challenge/Response Question:
Challenge/Response Answer:
eSignature PIN:
Date/Time of eSignature:

I acknowledge that I am the appropriate signee for this permit application based on Minnesota Rule 7001.0060.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person, or persons, who manage the system, or those persons directly responsible for gathering the information submitted is, to the best of my knowledge and belief, true, accurate, and complete (Minn. Rule 7001.0070).

Signatory:
Date:

Payment Charges

Total:

Submission

Date/Time of Submission: