MINNESOTA POLLUTION CONTROL AGENCY

MPCA permitting of metallic mining facilities

Mining & Forestry Policy Committee February 22, 2022



Our mission Protect and improve the environment and human health.

MPCA implements both state and federal environmental laws in Minnesota

Mining facilities need same types of permits as other industry sectors

- Must comply with the same standards and administrative processes as other sectors
- May contain certain requirements specific to mining







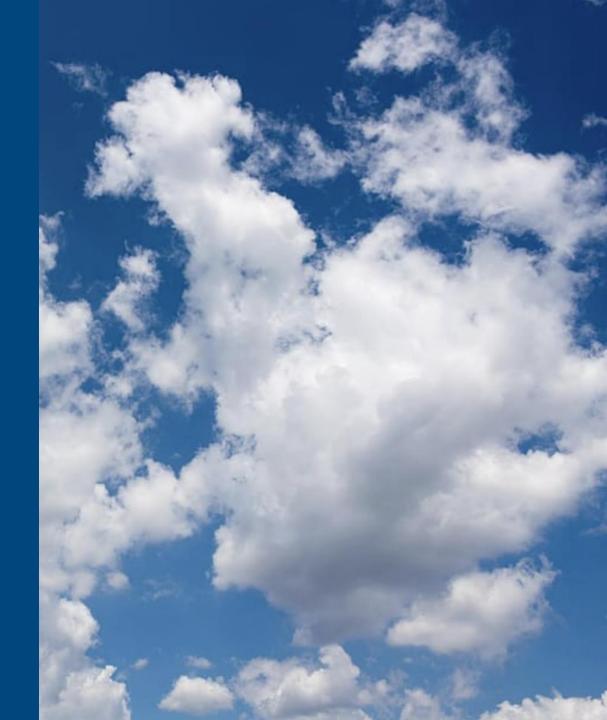
Types of permits required for mining facilities include:

- Air emissions (PSD, Title V)
- Wastewater discharge (NPDES, SDS)
- Stormwater discharge (Construction & Industrial)
- $^{\circ}$ Wetlands impacts (401 Certification)
- \circ Solid waste
- Hazardous waste
- Storage tanks



Key air issues at mining facilities

- Updated National Ambient Air Quality Standards (NAAQS)
- Regional haze, visibility
- Fugitive dust
- Climate change, greenhouse gases
- Mercury



Air Quality Permits

MPCA has a joint construction and operating permitting program

• Federal Title V (or Part 70) permit

- $\,\circ\,$ Federal operating permit required by Clean Air Act issued by MPCA
- Sets requirements on operation, monitoring and reporting
- \circ 5-year permit term must be reissued thereafter

Construction permit (NSR/PSD) permit

- $\,\circ\,$ Required under federal Clean Air Act issued by MPCA
- Required when project involves construction
- $\,\circ\,$ Assesses whether the proposed project will comply with applicable standards

Air Quality Permits

'State only' Construction and Operating Air Permit

- \odot Applies to smaller operations
- \odot Authorized by Minnesota Rules
- May be applicable to projects with lower air emissions (such as scram mining)
- 'Individual' permit -or- 'registration' permit (for smallest emitters)
- \circ Permits do not expire

Air Quality Permits

Process

- Must obtain permit prior to construction
- Application review and permit drafting 6 to 12 months, varies
- Pre-public notice review by Tribes and permittee 2 weeks
- Public Notice / Public Comment Period 30 days
- Respond to public comments varies
- Permit sent to EPA for review 45 days
- Issue permit decision open to legal challenge within 60 days

Key wastewater issues at mining facilities

Sulfate

Wild Rice – current 10 mg/L standard Impaired water listings and implementation

'Functional Equivalent' Analyses

Outcome of US Supreme Court 'Maui' case No clear EPA guidance on implementation

Class 3 and 4 Standards

Implementation of revised standards (translator)

Mercury

Mercury methylation / sulfate TMDL, fish consumption advisories

Antidegradation

Protects existing water quality for new and expanded discharges



Wastewater Discharge Permits

National Pollutant Discharge Elimination System (NPDES) Permit

- Federal permit required by Clean Water Act issued by MPCA
- Authorizes wastewater discharges to surface waters
- Includes discharge limits and other requirements to protect water quality standards
- 5-year permit term must be reissued thereafter

State Disposal System (SDS) Permit

- State permit required by Minnesota rules
- Authorizes operation of wastewater disposal systems and discharges to groundwater
- Usually issued together with the NPDES permit
- 5- or 10-year permit term must be reissued thereafter

Wastewater Discharge Permits

Process

- Submittal of permit application 180 days prior to expiration or new discharge
- Application review and permit drafting 3 12 months, varies
- Pre-public notice review by Tribes and permittee 2 weeks
- Public Notice / Public Comment Period 30 days
- Respond to public comments variable
- EPA review throughout the entire process
- Issue permit decision open to legal challenge within 30 days

Industrial Stormwater Multi-sector General Permit

- Required under federal Clean Air Act issued by MPCA
- Regulates stormwater by industry sector
- Requires benchmark monitoring and stormwater pollution prevention plans (SWPPPs)
- Stormwater requirements can be included in individual NPDES permit, negating need for general permit coverage
- Coverage effective <3 days after submittal of complete application

Stormwater Discharge Permits

Construction Stormwater General Permit

- Required when project involves construction >1 acre
- Regulates stormwater from construction activities
- General permit with requirements applicable to all facilities
- Requires best management practices and SWPPPs
- Coverage effective <3 days after submittal of complete application (May be up to 30 days for larger or more complex projects)

Other Permits

Additional Permits That May Be Needed

- Solid waste
- Hazardous waste
- Tanks

401 Certification (wetlands)

- Required for projects needing a US Army Corps of Engineers Section 404 permit
- Is a state certification to the US Army Corps that the project does not cause a violation of state water quality standards
- Typically addresses wetland and stream impacts
- May require mitigation (replacement, compensation) and/or monitoring
- Typically 10 to 30 day public comment period prior to issuance of certification



QUESTIONS?