



**Minnesota Pollution
Control Agency**

520 Lafayette Road North
St. Paul, MN 55155-4194

Industrial Groundwater Pump Out Application

NPDES/SDS Permit Program

Doc Type: Permit Application

The National Pollutant Discharge Elimination System (NPDES)/State Disposal System (SDS) Permit Program regulates wastewater discharges to land and surface waters. This application applies to the discharge of contaminated groundwater, where toxic or hazardous materials which have been released to or leached into the ground water and is most closely associated with clean-up activities including petroleum-related releases and volatile organic compounds associated with solvents and degreasing agents. This application also applies to construction dewatering discharges where it is known or can reasonably be expected that ground water encountered during excavation activities will be contaminated by petroleum hydrocarbons and/or volatile compounds. Any other discharge types will require a different permit application.

Complete the application by typing or printing in black ink. Attach additional sheets as necessary. For more information, please contact the Minnesota Pollution Control Agency (MPCA) at: In Metro Area: 651-296-6300 or Outside Metro Area: 800-657-3864.

Permittee name: _____ **Permit number:** MN

Facility Information

1. Please identify those MPCA staff with whom you have worked with on this project, and which staff member the project ground water monitoring data is sent to:

2. How many groundwater monitoring wells are included at the project? _____

3. If this project has been identified as a spill and/or leak site, what is the MPCA Spill and/or Leak Site identification number?

4. What is/are the suspected source(s) of groundwater contamination?

5. Check those pollutants identified or suspected in the groundwater:

☐ Benzene, ethylbenzene, toluene, xylenes (BETX)

☐ Phosphorus

☐ Diesel Range Organics (DRO)

☐ Polynuclear aromatic hydrocarbons (PAHs)

☐ Volatile organic compounds (VOCs)

☐ Gasoline Range Organics (GRO)

☐ Lead

☐ Salts (for example, sodium, chloride, fluoride)

☐ Nitrate

☐ Ammonia

☐ Other metals--Specify them: _____ ☐ Other--Explain in detail: _____

Attach a summary of the laboratory analysis results for these pollutants, and pH and specific conductance results. Submit the Laboratory Chromatogram for any sample that has a reportable concentration of Gasoline Range Organic and/or Diesel Range Organic. For groundwater containing Lead or other metal contaminants, submit results for the receiving water total hardness. The most stringent Lead limit will be given for any applicant failing to include receiving water total hardness as part of the application.

The time when you sample, including for a new proposed discharge, must be representative of the projected discharge wastewater quality. Please clearly indicate with all test results the specific dates, locations and methods of sampling.

If this is an application for reissuance of an existing permit, review your existing NPDES/SDS permit to see if it has special testing requirements for permit reissuance.

6. Indicate the name of the laboratory that analyzes your samples: _____

Indicate the Minnesota Department of Health (MDH)

Laboratory Certification No. for this laboratory: _____

7. Describe the treatment for the contaminated groundwater. Explain in detail the extent to which this treatment system will reduce the levels of the potential pollutants, identified in question 5, in the treated pump out flow. An oil/water separator and aeration or activated carbon adsorption system, or comparable treatment, is required. For permit reissuance or modification, also note any changes to the treatment system since this permit was last issued.

8. List below the chemical additives that are used or proposed to be used in the groundwater remediation and treatment system. This includes the process reagents, flocculants, descalants, corrosion inhibitors, biocides, wastewater treatment chemical additives, chlorine or other disinfectants, detergents, cleaning products, chemical dust suppressants, freeze conditioning agents, etc.

Chemical	Purpose	Location of chemical addition in process (e.g., to raw water supply, at greensand filter, before RO unit #2, etc.)	Amount/duration/frequency of addition (i.e., continuous or slug dosing. If slug dosing give amount/duration and frequency of addition; e.g., slug dosing 13.5 gal/3hours, once every two weeks)	Average rate of use (weight or volume per day)	Maximum rate of use (weight or volume per day)

Attach the Material Safety Data Sheets, complete product labels and any other information on chemical composition, aquatic toxicity, human health, and environmental fate for each chemical additive.

An Additional Chemical Additives Attachment is available on the MPCA website at <http://www.pca.state.mn.us/water/permits/index.html> if more space is needed.

9. Have you already obtained a Minnesota Department of Natural Resources (DNR) water appropriations permit for this pump out?
☐ Yes ☐ No If yes, what is the DNR permit number? _____

10. The groundwater pump out water will be routed to (check those that apply):

- ☐ Storm water retention basin or pond ☐ Surface waters (ditches, streams, lakes, wetlands, etc.)
☐ Municipal storm sewer ☐ Drain tile system
☐ Municipal sanitary sewer ☐ Septic tank/drainfield
 If so, do you have approval from the local sanitary sewer district? ☐ Yes ☐ No ☐ On-land disposal or land application (including infiltration gallery or irrigation of croplands or lawns)
☐ Other (explain in detail): _____

11. Complete the table below for each discharge point that includes the pumpout water. Discharge points include, for example, pipes, culverts and spray nozzles

Station ID/ Outfall Number	Discharge flow rate, million gallons per day		Flow duration and frequency (Note if there are only certain months when the discharge would occur)	Where will the treated wastewater go? What route will it take to surface receiving waters and/or land application sites?
	Average	Maximum		

If the pumpout will be routed to a storm sewer, please contact the sewer authority to confirm where the sewer discharges. Include this sewer route information in the right-hand box above.

12. Has the groundwater remediation system already been installed? ☐ Yes ☐ No

If the pump out has begun, what date did it start? _____

If the pump out has not begun, what date is proposed for it to start? _____

What date do you anticipate the pump out ending? _____

13. Describe how and where the sediments, residual solids and sludges removed from the wastewater treatment systems at the facility will be disposed of:

14. The MPCA maintains a Groundwater Pump Out General Permit which authorizes discharges resulting from the treatment of contaminated groundwater and remediation related wastewater where that has been a release of petroleum and fuel oil contaminants such as: gasoline—both leaded and unleaded, kerosene, diesel fuel, jet fuel, No. 2 heating oil and from other oils such as lube oils, machine oils, hydraulic fluids, mineral oils and waste oils; or where there has been a release of non-petroleum volatile organic compounds (VOCs), such as dry cleaning solvents and degreasing agents. A third category of coverage includes short-term construction activities where contaminant removal is secondary to the main project activity, such as road and bridge construction activities, sanitary and storm sewer line installations, underground installation of utility lines and pipelines, and new housing/commercial developments. The discharge of wastes other than those which meet the general permit eligibility criteria are prohibited for coverage under the general permit.

Are you applying for the Groundwater Pump Out General Permit? ☐ Yes ☐ No

If yes, check which is applicable to the facility:

- ☐ Petroleum related corrective action
- ☐ Volatile Organic Compounds related corrective action
- ☐ Construction dewatering where contamination is known or can reasonably be known to be present

If yes, provide a justification for why the discharge is eligible for coverage under this general permit including a discussion of contaminants present and pollutant reduction levels which will be achieved.

Review the application and ensure all requested items are submitted with this application.

Please make a copy for your records.

Refer to the *Transmittal Form* for mailing instructions.