

**UNITED STATES DEPARTMENT OF THE NAVY**

**Groundwater Remediation at the  
Naval Industrial Reserve Ordnance Plant**

**Fridley, Minnesota**

**October 1992**

**FACT SHEET**

**Groundwater Pumpout**

A groundwater pumpout system is now in operation at the Naval Industrial Reserve Ordnance Plant (NIROP) in Fridley, Minnesota. This system will capture contaminated groundwater and treat it before discharge to a sanitary sewer near the plant.

Environmental investigations at the NIROP in the early 1980's showed that the industrial cleaning compound trichloroethene (a probable human carcinogen) and other volatile organic compounds were in the groundwater under the plant as a result of past usage or disposal at the plant. Groundwater beneath the plant flows to the southwest and discharges into the Mississippi River. The intake for the City of Minneapolis Water Treatment Plant, which supplies drinking water to the city, is located less than one mile downriver from the NIROP.

The pumpout system includes four recovery wells that were started up in September 1992 and that are expected to prevent the contaminated groundwater from flowing into the river. The Navy is evaluating the effectiveness of the pumpout system in capturing the contamination. If necessary, the Navy will install an additional pumpout well or wells to ensure complete containment of the contaminated groundwater.

**Interim Treatment**

Interim groundwater and air treatment equipment was also started up with the pumpout system. An air-stripping process is being used to remove the trichloroethene and other volatile organic compounds from the 500 gallons per minute of groundwater produced from the pumpout wells. The air is also being treated with activated carbon; the used carbon is periodically trucked to a licensed, off-site carbon regeneration facility.

**Long-Term Treatment**

The Navy will soon begin designing a long-term groundwater treatment plant to be constructed at the NIROP. Treated groundwater from this facility will be discharged to the Mississippi River through a state-permitted storm sewer outfall. When the long-term facility is placed in operation, the interim air-stripping system will be removed.

**Available Information**

A "Determination Document" evaluating the first three months of pumpout system operation will be available in late December 1992 for public review at the following locations:

**Minnesota Pollution Control Agency  
520 Lafayette Road  
St. Paul, MN 55155**

**Anoka County Library  
Fridley Branch  
410 N.E. Mississippi Street  
Fridley, MN 55432**

For further information, contact:

**Northern Division  
Naval Facilities Engineering Command; 1821 J/S  
Attn: Jim Shafer  
10 Industrial Highway; Mail Stop #82  
Lester, PA 19113-2090  
Telephone: 215-595-0567**

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