



DEPARTMENT OF
PUBLIC WORKS

Project: Wastewater Treatment Facility CoMag Process
Location: Letchworth Avenue Wastewater Treatment Facility
Contact Person: Lorraine Sander, Wastewater Division

Phosphorus in wastewater comes from human waste, detergents, and industry. Phosphorus is a nutrient that causes increased growth of algae in the Concord River to the detriment of aquatic life and water quality. To prevent this from happening, we must remove more phosphorus from the wastewater than is possible with our current Wastewater Treatment Facility. The Town's NPDES permit from the Department of Environmental Protection (DEP) requires the Wastewater Treatment Facility to remove phosphorus down to a level of 0.2 mg/l by September 15, 2009.

In the summer of 2007, the Wastewater Treatment Facility ran a pilot project to test the effectiveness of the CoMag process in removing phosphorus from the wastewater. The CoMag process was chosen because it will reduce phosphorus to the required level and even lower levels that are anticipated in the future. The pilot is being run to determine chemical doses at various flows and phosphorus loadings so that the full-scale process can be designed based on the data derived from the pilot.

The full scale process is currently in the design phase. Construction is scheduled for the summer 2008.



CoMag Pilot Project Trailer