

PROJECT PROFILE

December, 2009

Client: Munising Wastewater Treatment Facility, Munising, MI Construction Consortium:

- Hall Contracting
- Midway Rentals & Sales



Clean water is highest priority

Powers PE1000+ epoxy outperforms competitors in demanding Northern Michigan wastewater treatment plant project

MUNISING, MICHIGAN — Safe-guarding natural treasures like Lake Superior and the nearby Anna River demands reliable resources right down to the anchors used to secure fixtures to concrete during the recent construction projects at the wastewater treatment facilities in Munising. A city of about 3,000 people in Michigan's Upper Peninsula, Munising sits on the shores of the greatest of the Great Lakes, Lake Superior. In an area where natural resources are directly linked to the community's prosperity, things like clean water get top priority.

In 2009 a project at the wastewater treatment plant included upgrades to weir gate structures — the weir gates open and close, allowing wastewater to flow from one disinfecting tank to another. The facility is charged with not only maintaining all drinking water wells, but to test the city's water for contaminants and keep unclean water out of the nearby lake and river. The facility has to be at its best 24/7.

To complete the recent project, more than 150 holes in diameters from 1/2- and 5/8- to 3/4-inch were required to secure hardware to the basic concrete structure. The original plan specified a Hilti® product, but representatives of Hall Contracting, working with Midway Rentals & Sales, recommended what proved to be a better solution — PE1000+ epoxy from Powers Fasteners. A readily available ICC-ES ESR2583 product, it has proven itself reliable for dry hole, damp hole and water-filled hole applications. Not only did it prove to be more cost effective when compared to the Hilti product, but it proved to be an easy adhesive to work with.

PE1000+ is a two-component, high-strength adhesive anchoring system that includes the injection adhesive in a plastic cartridge, mixing nozzles, dispensing tools and hole cleaning equipment.

PE1000+ is designed to bond threaded hardware into drilled concrete base materials and has been tested to the new International Building Code for use in both cracked and uncracked concrete. A complete ICC-ES report can be found at www.Powers.com, or at www.ICCES.org — reference report number 2583.