



Academic / Private Research

In 2005 Blue Water Technologies, Inc. commissioned the Hayden Wastewater Research Facility, a full-scale wastewater research facility located at the Hayden Area Regional Wastewater Treatment Plant in Hayden, Idaho. This facility is used by Blue Water, the University of Idaho (UI), and other academic, government, and corporate entities for design and optimization of advanced wastewater treatment processes, particularly reactive filtration and catalytic oxidation. Research conducted at this site improves the performance of wastewater treatment plants throughout the nation, helping them meet increasingly stringent discharge requirements as well as assisting in research for next-generation technology development.

Facility Specifications

Flow to the tertiary treatment research facility is drawn from the Hayden plant's secondary clarifier effluent, providing real-world testing of wastewater treatment processes. The facility includes two Blue PRO® reactive filtration units with 50 square feet of filtration area each. Four additional filtration units are available for future use. The filters are configured to run individually, in parallel, or in series. Each filter can treat up to 250,000 gallons per day (gpd). The filters are housed in a building with room to accommodate additional pilot equipment. An enclosed office and conference room round out the floor plan. Pilot projects and monitoring capabilities for the entire plant are available.

Intended Uses

The main purposes of the facility are:

- To explore innovative wastewater treatment processes, particularly incorporating reactive filtration and catalytic oxidation.
- To provide a demonstration site for full-scale wastewater treatment processes. The facility allows wastewater plant operators, engineers, academics, regulators, industry, and other entities to observe operation of new processes in a full-scale operating environment as opposed to bench or pilot-scale demonstrations.
- To advance water resource management by expanding potential water reuse applications through improved wastewater discharge quality.

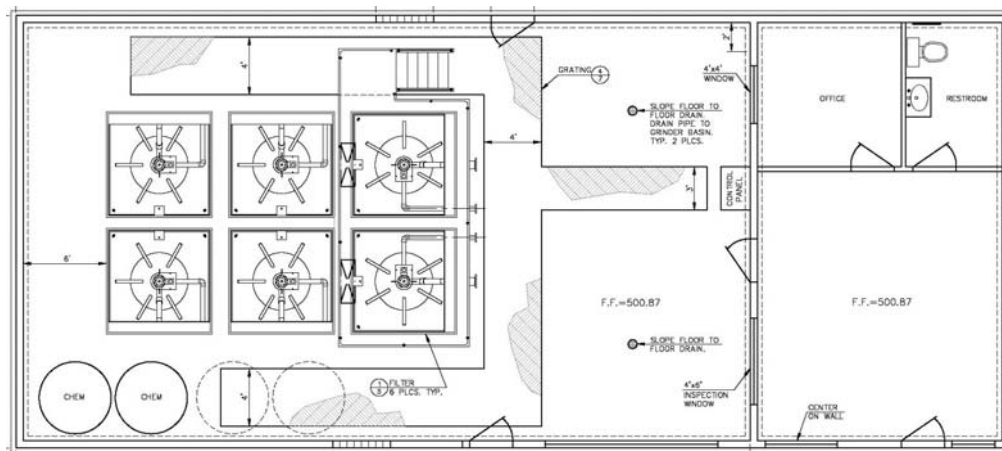


Who uses it?

Current research at the facility is conducted by Blue Water and UI. Proposals have been submitted to national granting agencies by groups at UI, Washington State University, and the U.S. Navy for significant collaborative research projects. Several corporations have used the facility for prototype testing or demonstration of wastewater treatment equipment, analytical instruments, metering devices, and control system components. We expect the number of participating research institutions, municipalities, and corporate sponsors / partners to continue to grow.

Hayden Wastewater Research Facility

- Located at the Hayden Area Regional Wastewater Treatment Plant in Hayden, Idaho.
- Currently treating 500,000 gpd average flow, with capacity up to 1.5 MGD.
- Full-scale facility for testing and demonstration of advanced wastewater technologies.
- Research on removal of nutrients, heavy metals, endocrine disruptors, and other contaminants.
- Facility capable of long-term process runs and diurnal variation testing.



The facility floor plan includes two Blue PRO® reactive filtration units, chemical storage, laboratory and bench-scale testing area, tools storage, office and conference room, and a large, open research area for experimental equipment.

Schedule: Completed Research

- October 2006 – Concluded Phosphorus Removal Tests
- January 2007 – Concluded Diurnal Variation Trials
- March 2007 – Concluded Disinfection Testing

Current Research - April 2008

- April 2007 – Continued Catalytic Oxidation
- January 2008 – Began Denitrification Trials
- March 2008 – Began Denitrification & P Removal in Same Vessel Trials
- April 2008 – Began Organic Compound Destruction Tests



Contact Information:

Blue Water Technologies, Inc.
 10450 N. Airport Drive
 Hayden, ID 83835-9742
 888.710.BLUE (2583)
 Local 208.209.0391
 Fax 208.209.0396

Website: <http://www.blueh2o.net>
 Email: sales@blueh2o.net

**In 2007 the facility was renamed Hayden Water Reclamation Facility.*