



Project Profile...



General Filter, Ames IA

City of Hornell, NY
Water Treatment Plant
Dual Media Filtration System

Facility Contacts:

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Project Summary:

The existing rapid sand filters at the Hornell Water Filtration Plant were producing unacceptable water quality. In addition, operation costs were escalating due to very short filter runs. LaBella Associates evaluated the situation and recommended the General Filter MULTIWASH filtration system. The dual media is cleaned with the MULTIWASH simultaneous air and water backwash process.

Since the new filters were placed into service, the finished water quality has increased substantially. The filters consistently produce water with less than 0.05 NTU. Filter run times are averaging over 50 hours in length. This has resulted in a dramatic decrease in backwash water use.

Equipment Components

US Filter/General Filter MULTIWASH

- ↓# Four Filter Cells, each cell 14' by 14'
- ↓# 784 ft² total filter area
- ↓# Media: 12" Sand and 18" Anthracite
- ↓# Nominal Filtration Rate: 2.8 gpm/ft²
- ↓# Average Filtered Water Turbidity:
less than 0.05 NTU
- ↓# MULTIWASH Simultaneous
Air and Water Backwash Process
- ↓# Manual, Semi, and Automatic Backwash
Control Modes.
- ↓# Average Filter Run: over 50 hours
- ↓# MULTICRETE Underdrain System

Other Upgrade Components

- ↓# US Filter/Wallace & Tiernan Alum and
Caustic Chemical Feed Systems
- ↓# New Filter Control Valves
- ↓# Lamson Turbotron Air Backwash Blower
- ↓# Upgrade of Existing Chlorine System
- ↓# Improved Plant Instrumentation

*Our special thanks to Leonard Fucci
and the Treatment Plant Staff
for their support during the
construction phase of this project.*