

Dallas SCI Water Supply and Treatment System Improvements

Client: PA Department of Corrections, Luzerne County, PA

Year: 2017 Cost: \$1,000,000



Gwin, Dobson & Foreman designed improvements to the Dallas State Correctional Institution's water supply and treatment system. The project involved a comprehensive hydrogeological analysis of the existing well waters, replacement of the 1980's era filtration system and improvements to the instrumentation and control system. Major work elements included:

- Filter building demolition and renovations including new doors, lighting and coating systems
- New ion exchange, vertical pressure filtration system for treatment of raw water with elevated iron and manganese levels
- Treatment system included four filter units complete with backwash and air scour systems and mechanical piping, meters and valves



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- Well building mechanical piping improvements
- Cleaning and rehabilitation of existing water wells using a liquid carbon dioxide process. GD&F obtained all permits through SRBC and DEP
- SCADA and telemetry system for monitoring and control of the water supply and distribution system including the existing well building, filter system, water storage tanks, and off-site pump station

This project was the final phase of the Dallas-SCI water system improvements designed by GD&F. Together with replacement of the water distribution system, the total project cost was \$4 million.