

WATER PLANT UPGRADES



Client: Greenfield Township Sewer Authority (GTSA)
Location: Greenfield Township, Lackawanna County, PA
Services: System Evaluations, Process Engineering & Design, Bidding, Resident Project Representation, Construction Management, Start-Up, and Plant Operations.

JHA Companies teamed with GTSA and its interim consultant, Environmental Engineering and Management Associates, to perform a peer review of proposed wastewater treatment facility improvements. JHA was then retained to provide consulting and engineering services in the PennVEST funding settlement process, bidding oversight, and provided the full construction management services associated with facility improvements, onsite resident project representation, and start-up assistance.

The project included necessary facility upgrades to an antiquated Intermittent Cyclical Extended Aeration Systems (ICEAS) Process. Specific system components included coarse bubble to fine bubble diffused aeration modifications, dissolved oxygen controls, headworks screening, new mechanical controls and decanters, new blowers and variable frequency drives, significant facility electrical improvements, and building upgrades. All upgrades were necessary to address regulatory compliance and system treatment sustainability and optimization.

JHA provided direct construction oversight, management, and documentation to ensure quality of work, materials and equipment utilized. Costs, schedules, and deliverables were observed, recorded, filed, and recommended for approval by an independent third party working in the best interest of the client and its customers. JHA Companies serves the facility as the licensed wastewater system operator to address an operator void and is also training the client's existing staff. JHA, together with GTSA and its partners, has worked to improve the overall quality of water and life within the service area.

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