

WASSAIC PUMP & TREAT SYSTEM

Site Information

Taconic Developmental
Disabilities Service Office
Wassaic, NY

Client Information

NYS Department of
Environmental Conservation

Project Highlights

- Designed large scale pump and treat system and supplemental treatment system for the Taconic Developmental Disabilities Office
- System design consisted of diverting recovered water from facilities up gradient supply wells and processed through 10,000 pound liquid phase granulated activated carbon
- Treated 200gpm and utilized 6-inch schedule 80 PVC piping.
- Supplemental system consisted of 2 10,000 pound LGAC Adsorbers capable of treating a maximum combined flow rate of 550 gpm

Design consisted of a large scale pump and treat system and a supplemental treatment system for the Taconic Developmental Disabilities Service Office (DDSO) facility. The facilities water supply system was impacted by MTBE from a petroleum spill at a local retail service station. The system design consisted of diverting recovered water from one of the facility's up gradient supply wells, processing it through a series of two 10,000-pound liquid phase granulated activated carbon (LGAC) adsorbers and then discharging the treated water to a nearby creek. The capture zone of the recovery well was used to provide a cut off and prevent any migration of the up-gradient MTBE plume from impacting the remaining supply wells. The treatment system was designed to treat 200 gpm and utilized 6-inch schedule 80 PVC piping to divert the water flow from the pumping well to the LGAC adsorbers. The project also involved the design and construction of a supplemental treatment system for the remaining supply wells in the event that the MTBE plume migrated further down gradient. The supplemental system consisted two parallel sets of two 10,000-pound LGAC adsorbers operated in series, capable of treating a maximum combined flow rate of 550 gpm. Water is conveyed to and from the adsorbers utilizing 8-inch diameter concrete lined ductile iron pipe tied into the facilities of the subsurface lines running to their facilities storage tank. This system was installed as a contingency only and to date has not been made active. Because the system treats potable water, the project required adherence to NSF and New York State Department of Health codes, as well as ANSI/AWWA standards.



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