GWTT was selected as part of the design/build team contracted to construct a perched groundwater remediation system for removal of arsenic and VOCs, as part of a large scale remediation project in Middlesex, NJ. GWTT was the general contractor for this project, with a construction contract of $1.5M.

GWTT’s scope of work included confined space activities associated with installing the duplex pump systems in existing precast sumps approximately 20’ deep. Each duplex sump was installed with a stainless steel rail and guide system anchored to the interior sump wall. GWTT completed the installation of underground conveyance piping and electrical conduit from the sumps to a new treatment building. In addition, GWTT oversaw the modification to the existing slab for footer installations and erection of the building.

GWTT installed all the process equipment, including the solids holding tanks, clarifier, chemical feed systems, multi-media filters, sludge conditioning tank, filter press, low-profile air stripper, arsenic adsorbers, and liquid phase carbon adsorbers. After the process equipment and main control panel were set, GWTT completed the installation of the interior process piping and electrical conduit.

The treatment system is fully automated using a PLC system installed by GWTT. The PLC allows for remote access by the operator, which results in a cost effective alternative related to alarm scenarios and system shutdowns during off hours. The GWTT O&M Services Team provides a full-time O&M technician responsible for daily operation of the system.

Permanent Perched Groundwater Treatment System Narrative

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