

Pilot Program

ON-SITE PILOT STUDIES DEMONSTRATE EFFECTIVENESS OF PROCESSES

Pilot tests conducted at facilities across the U.S. consistently show that WRT treatment processes successfully reduce radium or uranium in drinking water to well below the Maximum Contaminant Level (MCL). WRT can provide self-contained portable, free-standing pilot units or mobile, trailer-mounted units, depending on specific testing needs at each site. Services include unit delivery, setup and operating instruction. Upon completion of the pilot study, WRT will prepare a Pilot Study Report and a detailed cost proposal for a full-scale system.

PURPOSE OF THE PILOT STUDY

- Demonstrate the removal of the contaminant to comply with the MCL
- Demonstrate the simplicity of operation of the WRT treatment process
- Complete piloting requirements for regulatory approval
- Evaluate media performance

WRT PILOT PROGRAM

- Pilot unit is completely self-contained and ready to operate when it arrives on-site
- Operator training will occur when pilot unit arrives
- All necessary supplies and equipment will be provided with the pilot unit
- Length of pilot test is typically 1 to 3 months
- Utility monitors operation and collects samples





WRT PORTABLE PILOT UNIT

The portable pilot unit is a free standing, self contained pilot unit that occupies an area approximately 3' wide x 3' deep x 6' tall. The pilot unit is designed to be located inside a secure building, protected from weather. Setup of the pilot unit consists of assembling the frame work, attaching the treatment columns and connection of the piping. Once the unit is fully assembled, the water source is connected and the discharge is piped to a release location. Electrical power normally is not required. The Utility will need to provide an access point for source water and a discharge point for treated water. The feed water inlet and treated discharge are connected with garden hose connections. The portable pilot unit has the capability of treating a flow stream of approximately 1 to 2 GPM. The pilot unit is pre-assembled and normally can be put into operation in about an hour.



WRT TRAILER-MOUNTED PILOT UNIT

The trailer-mounted pilot unit is a self contained, heated, 7' x 14' fully enclosed trailer. The pilot unit equipment is mounted inside the trailer, along with tools, sampling and monitoring equipment, a work area, and an inventory of supplies and materials necessary for operating the pilot unit. Setup of the pilot unit consists of securing and leveling the trailer on-site, connecting the water source, discharge and electrical power. The Utility will need to provide a single 120VAC, 15 amp outlet, an access point for source water and a discharge point for treated water. Electrical power is connected via drop cord. The sample water inlet and treated discharge are connected to the trailer with external garden hose connections. The trailer-mounted pilot unit has the capability of treating two independent flow streams of approximately 1 to 2 GPM each. The pilot trailer can be in operation within hours of arrival.



Once the pilot unit is in operation, WRT will instruct the operating staff with regards to the pilot unit operation and monitoring and sampling procedures. The Utility will be responsible for daily monitoring of the system, and collecting water samples and sending them to the laboratory for analysis. The typical length of time to complete the pilot study is 30 to 90 days. The number of samples and frequency of collection will be determined by WRT for each pilot study, and may require modifications during the course of the study.

Upon completion of the pilot study, the pilot unit and all media used during the test will be removed from the site and properly disposed of by WRT.

When the pilot test is completed and all laboratory results are received, a Pilot Study Report will be delivered to the Utility. A firm proposal will also be provided to the Utility at this time.



FOR MORE
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