

THE IRA DESIGN APPROACH

The IRA design approach includes:

- Review of existing data and identifying target capture zones
- Perform modeling scenarios for the placement of new extraction wells
- Consider utility corridors back to treatment plants
- Sample existing wells for parameters that may affect pretreatment requirements (e.g., iron, manganese, total organic carbon (TOC), etc.)
- Ensure compliance with treatment system discharge requirements
- Review lessons learned from the operation of the existing CTS

The key elements of the IRA based on the evaluations include:

- Installation of 12 new groundwater extraction wells, a well control building for routine sampling and operation of the new well field/array field, and a piping system for conveyance of untreated groundwater to the CTS
- Installation of a three-bed granular activated carbon (GAC) system with 20,000 lbs of GAC each
- Installation of an equalization and effluent tank, for contaminated and treated water
- Expansion of the CTS building to house filtration equipment and a settling tank to dewater waste solids
- Installation of filter press and filter aid equipment for processing of settled solids from the GAC backwash and other site sludge material

