

BRADENTON ASR FACILITIES

High Service Pumping Station, 700 1st Street West, Bradenton, FL 34205

ON-SITE EXPERT:

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The Bradenton Potable Water ASR site has a 1.5 mgd Floridan ASR well that has been through eight intensively monitored cycle tests since 2003. Mobilization of naturally occurring arsenic has been a problem since the beginning of the testing program which has led to the issuance of a consent order by FDEP in 2008 and the implementation of a pre-treatment system to remove dissolved oxygen (DO) and chlorine (oxidants) prior to injection. The site is located in Downtown Bradenton at a water pressure booster station and the shortest distance from the ASR well to the City's property line is 75 feet. The three primary components of the pre-treatment system are: 1) 12 Liqui-Cel degasification contactors configured in 3 trains to remove DO; 2) a nitrogen gas generator which provides sweep gas for assisting with DO removal and; 3) a new sodium meta-bisulfite feed system to remove chlorine, which replaces an ineffective Ultraviolet Light system. The site includes a Floridan aquifer monitoring well located 224 feet away that has seen a peak arsenic concentration of 24 ug/l, but has since returned to natural arsenic concentrations typically less than 3 ug/l. Several design modifications improvements have been identified since the construction of this system which will be discussed during the visit. The degasification pilot project is a \$650,000 effort cooperatively funded by the City of Bradenton, SWFWMD, SFWMD, SJRWMD, and the PR/MRWSA. The City of Bradenton will be hosting the event along with the other cooperators.

For more information: [https://my.sfwmd.gov/pls/portal/docs/PAGE/PG_GRP_SFWMD_WATERSUPPLY/SUBTABS - ASR/TAB16324095/WELLAQUIFER.PDF](https://my.sfwmd.gov/pls/portal/docs/PAGE/PG_GRP_SFWMD_WATERSUPPLY/SUBTABS-ASR/TAB16324095/WELLAQUIFER.PDF)

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