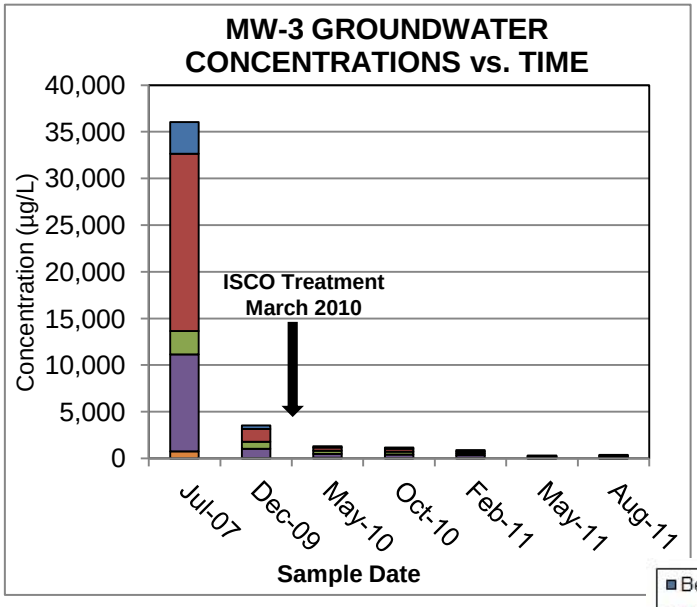
EXO TECH, INC.
Innovative Environmental Remediation Solutions

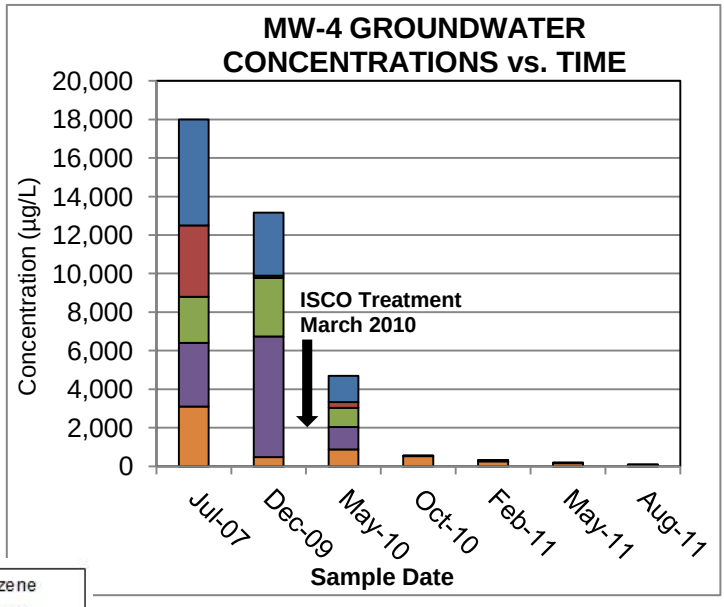
Ft. McAllister Marina
Active UST Site - Savannah, GA

Exo Tech performed a treatability study followed by a source area ISCO treatment at an active UST site located at a marina in the Savannah, Georgia area. The site is located in the coastal plain province immediately adjacent to the Ogeechee River with an approximate depth to groundwater of 5-7 feet and tidal influences. A gasoline/petroleum release was observed during initial corrective action plan development around a UST system. Due to the close proximity of the active tank system and high salinity of groundwater (10,000+μS), Exo Tech recommended performing a treatability study to identify a non-corrosive oxidant blend suitable for this environment. The location of the site required site treatment at or near In-Stream Water Quality Standards (ISWQS).

The treatability study evaluated the use of catalyzed hydrogen peroxide (CHP) using a higher pH buffered catalyst/chelator along with alkaline activated sodium persulfate. The results indicated sufficient reduction using both oxidant mixtures; however, in order to meet the stringent treatment goals, Klozur-CR, a proprietary blend of sodium persulfate and calcium peroxide, was selected. This product offers a "treatment train" approach, combining chemical oxidation and aerobic biostimulation through a follow-up release of oxygen.

The ISCO injection was performed into -21- injection points using 180 pounds of Klozur-CR per point. BTEX was detected in excess of 44,000 μg/L prior to injection, with benzene detected as high as 3,280 μg/L. Post injection results showed **significant reduction in dissolved benzene/total BTEX**, as shown in graphs for MW-3 and MW-4, located 10 feet from the river. The total cost of this project was <$30,000. A No Further Action was received from the Georgia EPD in November 2011, with **site closure achieved after only one injection**.





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