

## BAM and ABC+ Injection – Chlorinated Solvents

Former Manufacturing Plant – Moultrie, GA

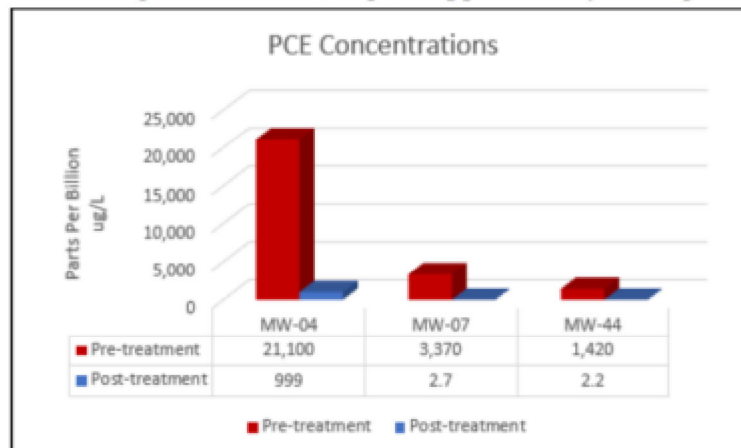
**Project Profile:** Former Manufacturing Plant – Moultrie, GA

**Contaminants:** Tetrachloroethene MW-04 (PCE): 21,100 ug/L  
 MW-07 (PCE): 3,370 ug/L  
 MW-44 (PCE): 1,420 ug/L

**Treatment Chemistry:** BAM and ABC+

**Impacted Matrix:** Sandy Clay

**Project Summary:** ORIN conducted large scale treatment of groundwater contaminated with chlorinated solvents using BAM, a pyrolyzed cellulosic material, and ABC+, a soybean EVO mixed with zero valent iron. BAM was mixed with water and injected through 14 DPT points and ABC+ was mixed with water and injected through 6 DPT points encompassing MW-04 and MW-07. 20 points were injected around each well for a total of 40 points, 2,800 gallons of BAM and 1,200 gallons of ABC+. A barrier wall was made around MW-44 with a mixture of BAM and ABC+ DPT points. During injection activities, BAM and ABC+ were observed in MW-04 and MW-44. Treatment extended from 20 feet below ground surface (ft bgs) to approximately 30 ft bgs.



**Project Results:** Baseline samples were taken prior to treatment to characterize the contaminant level and compare treatment reductions. Three rounds of sampling have occurred during the post treatment period with 95.3% reduction for all COC's sampled at MW-04, 99.9% at MW-7, and 99.8% at MW-44.