ISCO Treatment Around Pipeline

Troup County, GA

Contaminants:
BTEX, namely benzene

Treatment:
ISCO injections using sodium persulfate

Site Status:
Active, pending closure

- The site experienced a release at 2 pipeline locations dating back to the 1950s. Maximum dissolved benzene concentrations were >7,000 µg/L. An aerobic bio-stimulant treatment was previously performed which initially appeared effective; however, concentrations increased later due to mass desorption.
- In the first location, iron activated sodium persulfate was injected into 50+ direct push points. Confirmatory sampling over a 6-month period indicated a 90-95% reduction in dissolved benzene, with the highest benzene concentration detected at 1,000 µg/L, below treatment goals.
- In the second location, a higher dose of >20,000 lbs of iron activated persulfate was injected. Target treatment goals in this location were to 3,750 µg/L benzene or levels supportive of monitored natural attenuation. Location 2 historically contained free product. In order to limit subsurface corrosion, a citrus based iron chelate was utilized as a persulfate activator. Confirmatory sampling results for location 2 are pending.

Example pipeline, courtesy of FERC

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