

DPT Injection – Hexavalent Chromium

Former Manufacturing Facility – Ypsilanti, MI



One Round of DPT Injection

Project Summary: A pilot study was conducted to provide information on the effectiveness of the design parameters for full-scale treatment. Pilot studies allow for the field application design to be modified or changed, if needed, before full-scale implementation. Full scale operations took place in May of 2011 over a four-day period. Injection utilized 179 Direct Push Technology (DPT) points advanced to a target interval of 2 to 12 ft bgs covering approximately 12,000 ft². Each injection point received approximately 170 gallons of 12% calcium polysulfide treatment chemistry with a total of 30,478 gallons during full scale operations.

Site Conditions:

Groundwater Contaminants –

Hexavalent Chromium, Cr (VI):

100 µg/L & 300 µg/kg

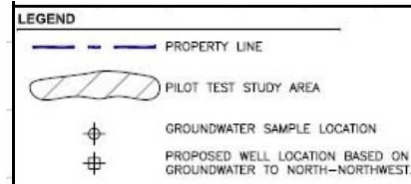
Impacted Matrix –

Sand

2 to 12 ft-bgs

Treatment Chemistry –

Calcium Polysulfide



Project Results: ORIN successfully reduced contaminant levels following the pilot and full scale injection activities by injecting calcium polysulfide chemistry through a series of direct push points across the injection area.