

In-Situ Carbon-Base Injection to Treat Contaminated Groundwater in Wellington
April 6, 2012

BER's Voluntary Cleanup and Property Redevelopment Program is working with Cargill and their consultant, ARCADIS U.S., Inc., to implement an innovative groundwater treatment. The groundwater beneath a former Cargill facility in Wellington facility was contaminated with carbon tetrachloride, once used for and grain fumigation. Cargill is injecting molasses into the contaminated groundwater. The molasses acts as a food source for bacteria which will biodegrade in the subsurface and stimulate reductive dechlorination of the carbon tetrachloride, chemically transforming it into harmless compounds. Preliminary groundwater laboratory results indicate that over three months, carbon tetrachloride concentrations have decreased by an order of magnitude.



Injecting molasses into the carbon tetrachloride-contaminated groundwater plume.

