

Project Summary

IET implemented a reductive dehalogenation remedial technology design at a site in Cherry Hill, NJ, between August 24th and September 2nd 2015, in order to enhance both abiotic and biological reductive processes (U.S. patent #7,531,709) within the targeted treatment area. The targeting injection mixture included Provect-IR[®], kelp, nutrient, zero-valent iron, propionate, yeast extract, sodium sulfite, red yeast rice and a mixture of vitamins B2 and B12. The remedial mixture was designed to restrict plume migration while also addressing site contamination by chlorinated volatile organic compounds (CVOCs).

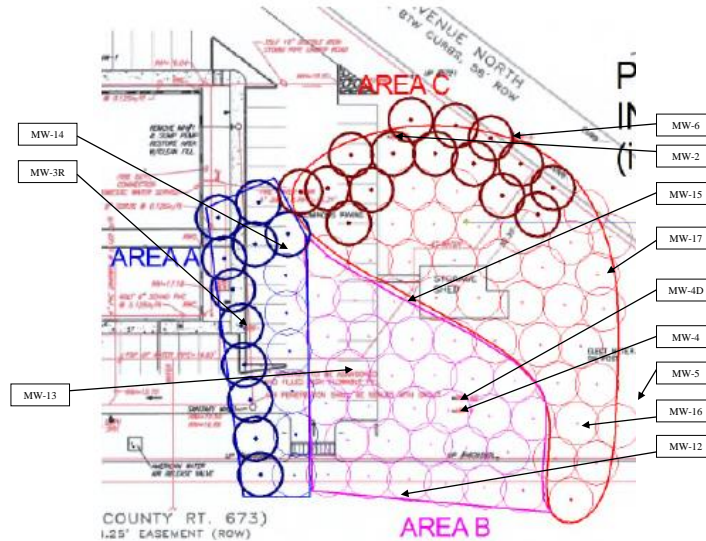
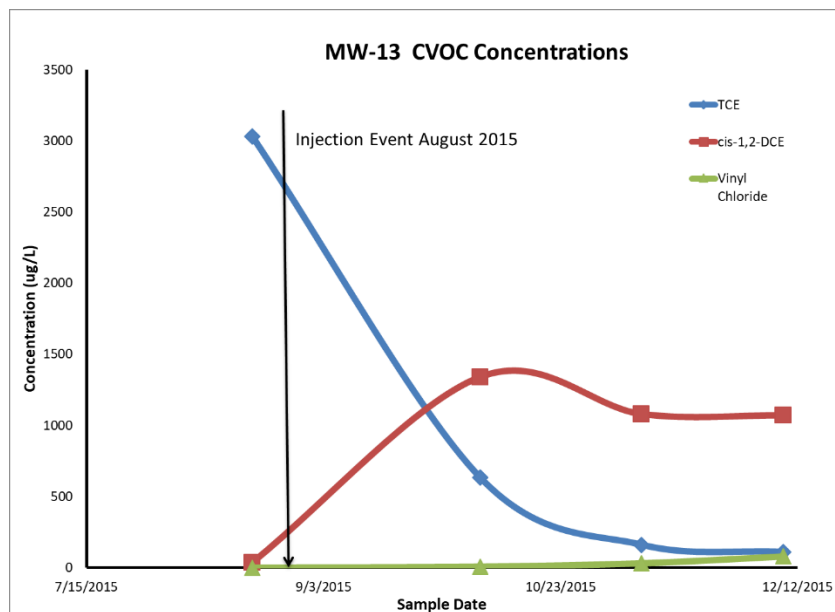


Figure 1. Injection Points and Well Locations of First Remedial Injection



Conclusions

- Total CVOC concentrations in the main targeted well MW-13 decreased by 59%.
- The concentration of the parent constituent of concern TCE in MW-13 decreased by 96%.
- Anaerobic reductive dechlorination still ongoing in the well although no additional data was received after December 2015.