ABC+

Combined Remedy Technology

Combined Chemical and Biological Reduction

ABC+ is a proven, customizable formulation combining a liquid nutrient rich long-lasting carbon substrate and micro-scale zero valent iron (ZVI) for enhanced *in situ* reductive dechlorination. Formulated and mixed on a site-by-site basis, the ratio of carbon to ZVI can be adjusted for subsurface conditions. The dual-pathway can address a wide variety of site conditions; mixed solvent plumes, DNAPL, persistent low-concentrations and low pH aquifers. Since its original development two decades ago, over twenty million pounds of ABC+ has been injected at sites world-wide.

2-Part Product Formula

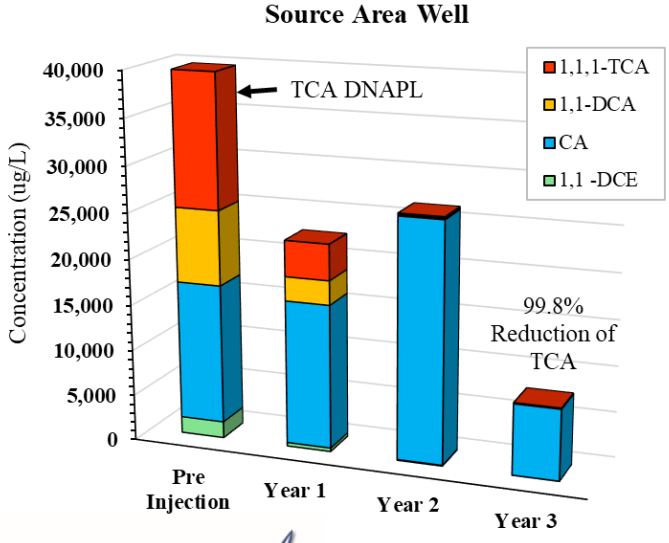
Organic Carbon: Utilizes the ABC® mixture of fast and slow-release organics typically emulsified vegetable oil (EVO) with a soluble quick release substrate (i.e., glycerol or sodium lactate). Supplying hydrogen and nutrients for biological reductive dechlorination.

ZVI: Sourced from virgin iron ore with a mean particle size less than 125 microns. ZVI promotes the rapid abiotic destruction of chlorinated compounds through reductive elimination. Hydrogen and ferrous iron are also released providing additional reducing power.

Advantages

- ✓ Combined degradation pathway of both abiotic and biotic to reduce daughter product formation.
- ✓ Long-lasting ≥ 2 years
- ✓ Quickly lowers redox potential for faster results
- ✓ Remediate mixed chlorinated plumes (ethenes and ethanes)
- ✓ Customizable;
  - Adjustable Carbon to ZVI ratio
  - pH buffer can be added
  - EVO can be changed to other organics
  - Larger or smaller scale ZVI can be provided based on subsurface conditions

Product Results



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