

*In Situ Chemical Oxidation For Groundwater Remediation Serdp
Estcp Environmental*



In Situ Chemical Oxidation For

In situ chemical oxidation. One of the reactants in the reaction becomes oxidized, or loses electrons, while the other reactant becomes reduced, or gains electrons. In ISCO, oxidizing compounds, compounds that give electrons away to other compounds in a reaction, are used to change the contaminants into harmless compounds.

In situ chemical oxidation - Wikipedia

In Situ Chemical Oxidation is right for your project if the source zones have moderate to high contaminant concentrations in groundwater, significant sorbed contamination, and the potential presence of residual, separate-phase contamination (LNAPL or DNAPL droplets or ribbons).

In Situ Chemical Oxidation (ISCO) | REGENESIS

In situ chemical oxidation, also referred to as ISCO, is an aggressive remediation technology that has been applied to a wide range of volatile and semivolatile hazardous contaminants, including DNAPL source zones and the dissolved-phase chemicals emanating from the source zones.

In Situ Oxidation - CLU-IN

Background. In situ chemical oxidation (ISCO) involves the subsurface delivery of chemical oxidants to destroy organic chemicals (e.g., chlorinated organic solvents, fuels) and to remediate a site to a risk-based cleanup goal. ISCO can be implemented alone to treat a contaminant source zone or an associated groundwater plume,...

In Situ Chemical Oxidation for Groundwater Remediation ...

In situ chemical oxidation, or "ISCO," can be used to treat many types of contaminants like fuels, solvents, and pesticides. ISCO is usually used to treat soil and groundwater contamination in the source area where contaminants were originally released.

A Citizen's Guide to In Situ Chemical Oxidation

Hydrogen peroxide (H₂O₂) and persulfate are the most efficient and commonly used oxidants in in-situ chemical oxidation (ISCO) of organic contaminants. This review focuses on the principle and activation techniques used in H₂O₂ and persulfate based ISCO processes.

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