

# OZONE INJECTION

SSI designs and builds site specific ozone injections systems and control packages. We are committed to creating an optimal system that will accelerate site cleanup, minimize environmental impact, and reduce our client's financial liability.

## Technology

Ozone-air sparging provides enhanced stripping of VOCs from groundwater while introducing ozone as a highly reactive oxidant to destroy the target compounds. Ozone is a highly reactive chemical that has proven to be effective in destroying a wide variety of organic chemicals, including MTBE and chlorinated VOCs. Ozone destroys organic chemicals through the process of chemical oxidation, which breaks the targeted organic chemical down into carbon dioxide and water.



*Trailer mounted ozone treatment system*



*Portable Ozone Injection Unit*



*Gas liquid contactor*



## Applications

Pulsed ozone sparging has become viewed as a highly effective remedial technology for treating contaminated soil and groundwater in-situ such as:

- BTEX
- MtBE /TBA
- Chlorinated solvents

Ozone is also a **green technology** not requiring any handling of dangerous chemicals.

## Advantages to Ozone Injection

- Low initial capital equipment costs.
- Minimal site disturbance
- Does not require soil vapor extraction since the contaminants are destroyed in-situ rather than transferred from the dissolved state to the vapor state.
- Small self contained units for short term use
- Large trailer mounted units for full scale clean-up

**Call your SSI Rep for design assistance!**



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