



inVentures Technologies incorporated

April 30, 2009

Gas infusion for groundwater remediation newsletter

Navy Pilots iSOC for Vinyl Chloride Remediation

The iSOC system was selected by the Navy for evaluation of an aerobic vinyl chloride groundwater remediation strategy:

Objective: Aerobically degrade low concentration vinyl chloride in residual plume

Pilot Remediation Strategy: iSOC installed and operated to assess aerobic bioremediation potential

- iSOC installed in treatment well with integral ground vault containing oxygen supply cylinder and regulator
- Monthly monitoring well sampling implemented to assess changes in oxidation reduction potential, dissolved oxygen and vinyl chloride concentration

Initial Results:

- Significant increases in ORP and dissolved oxygen noted
- Contaminant concentration initially cut in half but fluctuating
- Higher concentrations found in new upgradient well

For more information on the pilot www.isocinfo.com/sectionDetail.aspx?ID=29

Go to the aerobic degradation of vinyl chloride presentation.

Note: iSOC Technology has been reviewed under the Navy's Broad Agency Announcement (BAA) for Innovative Environmental Technologies and Methodologies and found eligible for the Environmental BAA Program. Technology abstracts can be found in the Defense Environmental Network and Information Exchange (DENIX) as part of Book 21. DENIX is available to all DOD field activities seeking solutions for their environmental program needs.

Green Remediation is fast developing as a practice to consider all environmental aspects of a cleanup to ensure maximum environmental benefit throughout the lifecycle of the project.

The iSOC System can be part of your green remediation strategy:

Objective: Aerobically degrade volatile organic compounds and petroleum hydrocarbons in residual source areas and contaminant plumes

Green Remediation Strategy: Treat groundwater in situ with aerobic bioremediation in a targeted treatment zone with natural gradient passive groundwater flow

- Uses industrial grade oxygen at a conservative rate of 1 cubic foot per day per well
- Uses no on-site electricity or power
- Low maintenance requirements
- iSOC treatment units easy to redeploy for optimization
- System is fully reusable

Results:

- Destroys contaminants in place
- Creates no waste
- Does not generate any emissions
- Avoids costs for electricity connection and supply (important at remotelocations)
- Low impact operation compatible with redevelopment
- Silent operation

For more information on Green Remediation see <http://www.clu-in.org/download/remed/EPA-542-F-08-002.pdf>

Up Coming Events

The Tenth International In Situ and On-site Bioremediation Symposium

May 5-8, 2009

Marriott Waterfront Hotel, Baltimore, Maryland

www.battelle.org/conferences/bioremediation/

While at the Battelle Conference visit iSOC by inVentures at Booth # 201, speak to one of our Technical Representatives and register to win a free iSOC technology trial

A&WMA: ACE 2009 - 102nd Annual Conference

June 16-19, 2009

Cobo Center, Detroit, MI

www.awma.org/ACE2009/

While at A&WMA: ACE 2009 visit iSOC by inVentures at Booth # 435 and speak with one of our Technical Representatives.

Technical Support

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