



Proven Soil, Sediment, and Groundwater Remediation Biotechnologies



NEWS RELEASE

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Announcing O-Sox™ Remediation Technology for Downwell Deployment of Dissolved Oxygen

Industry leaders form partnership to offer oxygen releasing socks for aerobic biodegradation in groundwater wells

STONE MOUNTAIN, Ga.; FREEPORT, Ill.; PITTSBURGH (Jan. 16, 2007) – Three premier environmental remediation and service firms have announced a strategic partnership to provide a highly engineered delivery system for the EHC-O™ controlled-release oxygen and nutrient releasing technology for use in groundwater wells. Developed by scientists at Adventus, in close collaboration with manufacturing engineers at Durham Geo Slope Indicator and Field Environmental Instruments, the new O-Sox™ oxygen delivery system is revolutionizing the economics and efficacy of groundwater well remediation.

How it works:

Stimulation of aerobic biodegradation of groundwater contaminants using the EHC-O Oxygen Releasing Compound is deployed in remediation wells with the O-Sox™ delivery system. EHC-O is a proprietary field-proven compound that contains a long-term source of dissolved oxygen and nutrients. In the well, EHC-O reacts with water to release oxygen slowly. Exhausted O-Sox™ are easily replaced with new ones to continue treatment. Organic constituents most amendable to aerobic biodegradation processes include petroleum-based hydrocarbons, such as polycyclic aromatic hydrocarbons (PAHs), and BTEX.

“Top 10” benefits of using EHC-O and the new O-Sox™ delivery system:

1. All the field proven benefits of EHC-O.
2. Substantial time savings in the field since reusable stainless steel canisters are easy to insert and retrieve from the wells.
3. Quantifiable cost savings exceeding 25 percent over market alternatives realized due to ease of application and lower unit price than competing offerings.
4. Recoverable canister costs in the first installation.
5. Ease of determining the exact depth at which the product is deployed.
6. O-Sox™ and canisters available for two-inch and four-inch wells.
7. Up to three canisters may be suspended in line to lengthen the active zone.
8. Even distribution of the active material over the length of the canister(s) because the “socks” do not collapse or bunch up.
9. Contains nutrients, and is pH-buffered to reduce self-encapsulation.
10. Estimated longevity of three to six months.

- More -

Adventus Announces Partnership/ Page 2

Common questions posed by decision-makers, consultants and Project Managers include:

- **Do I need microbial inoculants?** In most cases, the naturally occurring (indigenous) microorganisms are well adapted to the organic constituents of interest and inoculants are not required.
- **What contaminants are amenable to O-Sox™ treatment?** The rate and extent of removal of all organic compounds that are biodegraded under aerobic conditions are usually enhanced via the addition of oxygen and inorganic nutrients. Petroleum-based aromatic (e.g., benzene, toluene, xylene, and phenol) and aliphatic hydrocarbon mixtures (e.g., gasoline, heating oil, diesel fuel, jet fuel, and kerosene) are primarily targets; lightly chlorinated ethenes (vinyl chloride), MTBE, dioxane, pentachlorophenol, and many other compounds are also potentially amenable to O-Sox™ treatment.
- **Is it easy to switch over to the O-Sox™ technology?** Yes. EHC-O has been accepted by many state regulatory authorities and it has already been employed at sites throughout the USA and Europe.
- **How long do they last?** O-Sox™ are typically replaced every three to six months. Various site-specific factors will influence the effective lifetime of the O-Sox™ cartridge; mainly i) constituent type and concentration, and ii) hydrogeological features (groundwater flow rate, Eh, pH, temperature).
- **Do I need to install new wells?** No. The O-Sox™ technology is designed to fit into standard two-inch and four-inch diameter groundwater monitoring wells. The canisters have a nominal outside diameter of 1.75-inches for the two-inch size and 3.5-inches for the four-inch size.
- **What is the oxygen delivery rate?** The rated delivery is at least 15 pounds of oxygen per 100 pounds of EHC-O, after 200 days.

To Learn More

Contact Field Environmental at 1-800-393-4009, or visit us online at:
www.FieldEnvironmental.com
www.DGSI.info/o-sox
www.AdventusGroup.com/products/ehc_o.shtml

About Adventus

The Adventus Group provides a growing portfolio of leading environmental remediation technologies, including patented offerings from Adventus Americas Inc., and EnviroMetal Technologies Inc. Our business model supports site owners, environmental engineers, and diverse consulting professionals by providing unbiased design, and selection of the most cost-effective remediation strategies.

Adventus exclusively offers DARAMEND®, EHC® and related ZVI technologies for *In Situ* Chemical Reduction (ISCR) along with TERRAMEND®, AQUABLOK+™, EHC-O®, O-Sox™, and mGCW-R™ systems to address myriad soil, sediment and groundwater impacts. Our world-class technical team is a clearly recognized industry leader. Since its inception in 2003, Adventus has successfully deployed field installations at over 200 sites in North America, Europe, Asia, and Australia.

The Adventus family of companies is always seeking strategic partnerships with complementary remediation biotechnologies, and qualified international licensees in numerous countries. More information can be found online at www.AdventusGroup.com or www.eti.ca

About Durham Geo Slope Indicator

Durham Geo Slope Indicator (DGSI) is dedicated to the design, manufacture and supply of products for materials testing in the construction, geotechnical and geophysical markets. Our environmental products include ground water remediation, sampling equipment, storm water sampling equipment and a complete line of water quality meters. Many of the products, originally under the Brainard-Kilman name, have been offered since 1965. Our manufacturing facilities in Stone Mountain, Georgia and Mukilteo, Washington, enable us to offer a wide range of products and instruments to serve the Geotechnical and Geo-environmental markets. DGSI received ISO 9001:2000 certification for its manufacturing facilities in Washington and Georgia. The scope of certification includes the design, manufacture, distribution, calibration, and repair of geotechnical equipment for the construction, geotechnical and geo-environmental markets. DGSI's customers are represented by each state in the USA and more than 50 countries. They include consulting engineers and scientists, universities, government entities, research laboratories and civil and environmental construction companies. More information can be found online at www.DurhamGeo.com

About Field Environmental Instruments

Field Environmental Instruments is an employee-owned and operated business located in Pittsburgh, Pa. whose operating partners apply more than 25 years of environmental experience and customer service for clients. Established in 1995, FEI maintains an extensive inventory of the most recognizable air monitoring and sampling instruments available. In addition, FEI maintains a complete inventory of the most widely used groundwater sampling and analysis equipment in the industry. In 2006, FEI expanded operations into a 60,000 square foot warehouse and office building. This location provides more than 15,000 square foot in storage space, is aided by five truck-loading docks and houses a state-of-the-art equipment service and repair area -- all providing greater efficiency for customer service. More information can be found online at www.FieldEnvironmental.com.