

BOS 200[®]

REMEDIATION PRODUCTS INC.

Primary Use

In Situ Petroleum
Hydrocarbon Remediation

Treatment Mechanism

Trap & Treat[®] - Complete
System Supporting Biological
Degradation of Petroleum
Hydrocarbons

Delivery Methods

RPI-Approved Direct Push or
Packer Injection. Direct
Application via Soil Mixing or
Trenching



BOS 200[®] Product Description

BOS 200[®] is a Trap & Treat[®] in situ remediation technology specifically designed to degrade petroleum hydrocarbons, related solvents, and oils. BOS 200[®] is a complete system effecting accelerated biodegradation of various organic compounds on an activated carbon platform that includes micro and macro nutrients, time release terminal electron acceptors, and a blend of facultative organisms designed to flourish within the aerobic to anaerobic conditions present in the pore structure of the carbon. It has been demonstrated to be effective with LNAPL, fuel oxygenates, alcohols, glycols, and cyclic ethers. No toxic byproducts such as sulfide are produced. The product is insensitive to groundwater geochemistry and is effective under aerobic and anaerobic conditions and over a broad range of pH. High salinity and TDS of 30,000 ppm are also not detrimental to performance.

BOS 200[®] Product Applications

The product is typically mixed with water to create a slurry that can be applied using a variety of techniques including: Direct push injection, soil mixing techniques, and trenching. It is commonly employed in plume wide treatment including treatment of LNAPL source, mid, and downgradient plume regions. Plume area treatment is normally accomplished using slurry injection across the impacted thickness at a number of points located using a triangular grid pattern. Effective barriers can be constructed by injection using a tight point grid layout or through trenching or soil mixing. The product is also routinely used to treat excavation residuals by spraying slurry into the pit with subsequent mixing into the shallow soils of the excavation floor. Specialized injection techniques have been developed to address a variety of lithologic settings, including bedrock. BOS 200[®] has been successfully applied on hundreds of sites in North America and Europe since 2002 including convenience stores, bulk terminals, pipelines, natural gas wellhead and compressor station sites, industrial, DOE, and DOD. Case studies can be found on RPI's website at www.trapandtreat.com.

RPI Group

RPI Group is comprised of Remediation Products, Inc. (RPI) and a group of select remediation contractors that employ a three-pronged approach to ensure success: High density soil and groundwater sampling to support detailed conceptual site model development, expert design, and proven installation techniques to ensure distribution of the BOS 200[®] in the targeted intervals. The RPI Quality Assurance Laboratory located in Golden, CO provides cradle to grave analytical support throughout the project at no charge to the client. AST Environmental (AST) acts as RPI's Distributor & Training Affiliate for the installation contractors. A list of the contractors can be found at www.trapandtreat.com.

