

AEROBIC BIOREMEDIATION OF SOILS AND SEDIMENTS IMPACTED BY ORGANIC COMPOUNDS

TERRAMEND® aerobic bioremediation reagent represents a superior biological treatment technology for solid materials impacted by recalcitrant organic compounds. Since the first application in 1991, variations of the technology have been successfully used to treat hundreds of thousands of tons of soil, sediment and other solid materials. TERRAMEND® has treated soils containing a variety of aliphatic and polycyclic aromatic hydrocarbons (PAHs), phthalates, and chlorophenols (including pentachlorophenol) at many sites throughout the world.

The TERRAMEND® technology is uniquely advantageous:

- It can often be applied without excavation
- Implementation generates no odors or leachate
- Typically applied at 1 to 5% (soil mass), it does not result in soil bulking



An independent audit conducted by the U.S. EPA concluded that the technology represented a safe, effective and cost-efficient means of treating soils (US EPA/540/R-95/536 July, 1996).

KEY BENEFITS

- Hydrophilic character: Increases soil water holding capacity
- Balanced range of nutrients: Provides a broad range of major, minor, and micronutrients
- Improved ecology: Supports development of large, active microbial populations
- Accelerated treatment: Increases bioavailability of contaminants

POTENTIAL APPLICATIONS

- In Situ landfarming
- Ex Situ treatment cells or windrows

EXAMPLES OF CONTAMINANTS OF CONCERN

PETROLEUM

TPH, BTEX, DRO, GRO

PHthalATES

SELECTED HERBICIDES

2,4,5-T; 2,4,-D

CHLOROPHENOLS

For more information and detailed case studies, please visit our website.

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