

Subject Index

A

Aeration, 117
Air permeability, 135
Alaska oil spill, 207
Ammonia oxidizers, 75
Anaerobic biodegradation, 161, 177

B

Bacteria
 anaerobic, 161
 bacterial bloom, 191
 cyanobacteria, 191
 nitrite oxidizing, 75
 sulfate reducing, 75
Beach cleaning, 207
Benzo(a)Pyrene, 61
Bioaugmentation technology, 61
Bioblend M-5, 61
Biodegradation potential, 19

C

Carbon dioxide evolution, 19
Carbon, starch rich, 177
Clay, 35, 61, 227, 233
Cost, cleanup, 5
 biological methods, 5
 nonbiological, 5
Crabgrass, 149
Creosote, 75
Cyanobacteria, 191

D

Degradation, 207
Digitaria, 149

E

ELDA Soil Center, 227
Emissions levels, 117

Ethyl benzene, 91
Evaporative cooling effects, 245
Explosives, 161, 177

F

Feasibility studies, 35
Fertilizers, 207, 233
Foam formation, 245

G

Groundwater, 61, 91

H

Herbicides, 149, 161
Hose, corrugated, 227
Hydraulic fracturing, 233
Hydrocarbons, 19, 35, 49
 petroleum, 135, 207
 polycyclic aromatic, 61, 75, 149
 polynuclear aromatic, 91
Hydrogen peroxide, 91

I

Injection well, 91

K

Knotweed, 149
Kochia, 149

L

Lagoon, 117
Lake, creosote-polluted, 75
Lead, 49, 191

M

Mechanical mixing technologies, 245
Metal heavy, 49, 191

- M**
- Methanogenic bacterial consortium, 161
 - Microbes, 207
 - metabolic rate, 233
 - Microbial mat, 191
 - Mixflo system, 117, 245
 - Modeling, mathematical, 135
 - Monitoring wells, 91
 - Munitions contamination, 161, 177
- R**
- Reagent screening, 49
 - Respirometry, 19
 - Rhizosphere, 149
 - Rototilling, 61
- S**
- N
 - Sand, 233
 - Screening test, 19
 - Selenium, 191
 - Slurry, 117
 - Sodium percarbonate, 233
 - Soil
 - clayey, 35
 - ex-situ bioremediation, 35
 - inoculation, 61
 - in-situ bioremediation, 35, 233
 - recycling, 49, 227
 - silty sandy, 19
 - slurry, 161, 177
 - vapor extraction, 135
 - Soil pile technology, 227
 - Soil Recycling Demonstration Plant, 49
 - Spill cleanup, oil, 207
 - Starch-rich carbon, 177
 - Sulfate reaction, 191
- P**
- Peptone yeast extract, 75
 - Petroleum hydrocarbons, 135
 - Petroleum storage tanks, 5
 - Phosphate buffer, 177
 - Piedmont, 135
 - Plants, herbicide tolerant, 149
 - Polychlorinated biphenyls, 117
 - Polycyclic aromatic hydrocarbons, 61, 75, 149
 - Polygonum*, 149
 - Polynuclear aromatic hydrocarbons, 91
 - Pond, simulated, 191
 - Propylene glycol, 233
- T**
- Tanks, petroleum storage, 5
 - Toluene, 91
 - Trichloroethylene, 149
 - Trinitrotoluene, 161, 177
- U**
- U.S. Environmental Protection Agency, 207

V

- Vacuum processes, 227
- Vapor extraction, soil, 135
- Venting, soil, 135
- Volatile organic compounds, 135, 227, 245

W

- Waste treatment methodologies, 5
 - biological methods, 5
 - nonbiological, 5
- X
- Xylene, 91