

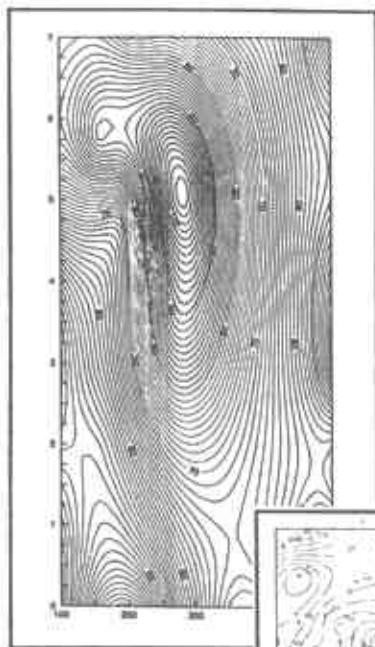


# Uriah Inc.

*An Environmental Services Company*

Uriah, a full service environmental consulting firm, offers comprehensive site assessment, sampling, monitoring, and soil/groundwater remediation services. Our staff is dedicated to the prompt identification and characterization of environmental problems involving toxic, hazardous, and other regulated materials; and to providing appropriate and affordable solutions to these problems.

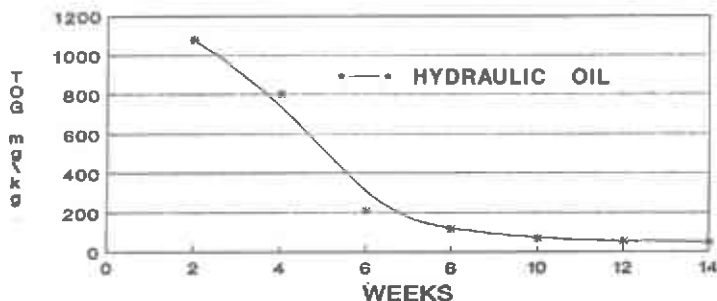
While a full range of soil and water remediation technologies are available through Uriah, we have particular expertise in the development and implementation of treatment protocols which utilize biological detoxification principles. Through the careful management of naturally occurring, non-pathogenic microorganisms, nature's own methods for cleansing the environment are harnessed to resolve contamination events involving organic materials such as automotive, marine and aviation fuels, lubricants, solvents, and pesticides.



Uriah uses computer modeling to represent hydrogeologic conditions, project contaminant migration patterns, and determine biotic and abiotic degradation potentials.



Thin-spread landfarming, static pile aeration, forced air composting, and windrowing bioremediation methodologies are used individually, or in combination, to ensure that hydrocarbon contaminated soils are detoxified in an efficient, timely, and cost effective manner.



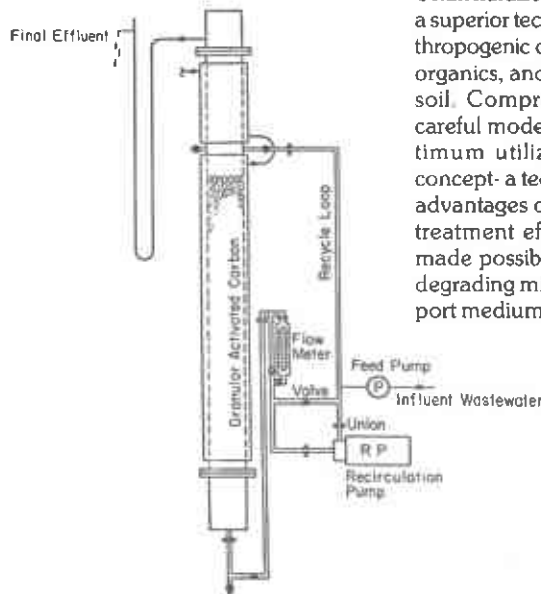
## URIAH BIOREACTOR TECHNOLOGY

### EFFECTIVE AND AFFORDABLE TREATMENT FOR CONTAMINATED WATERS

Uriah bioreactors are powerful treatment systems which are capable of cost-effectively degrading virtually any organic contaminant to form non-toxic end products.

Unlike many treatment units, Uriah systems do not accumulate significant quantities of hazardous sludges, residues, or adsorbents, nor is any "polishing" of reactor effluent necessary.

In addition to achieving high treatment efficiencies, even at very dilute concentrations of toxic constituents, Uriah bioreactors are virtually self-contained and are both compact and portable. These features provide for superior savings as Uriah systems may be easily transported, readily placed in service, utilized in small spaces, and then quickly disassembled upon completion of a project.



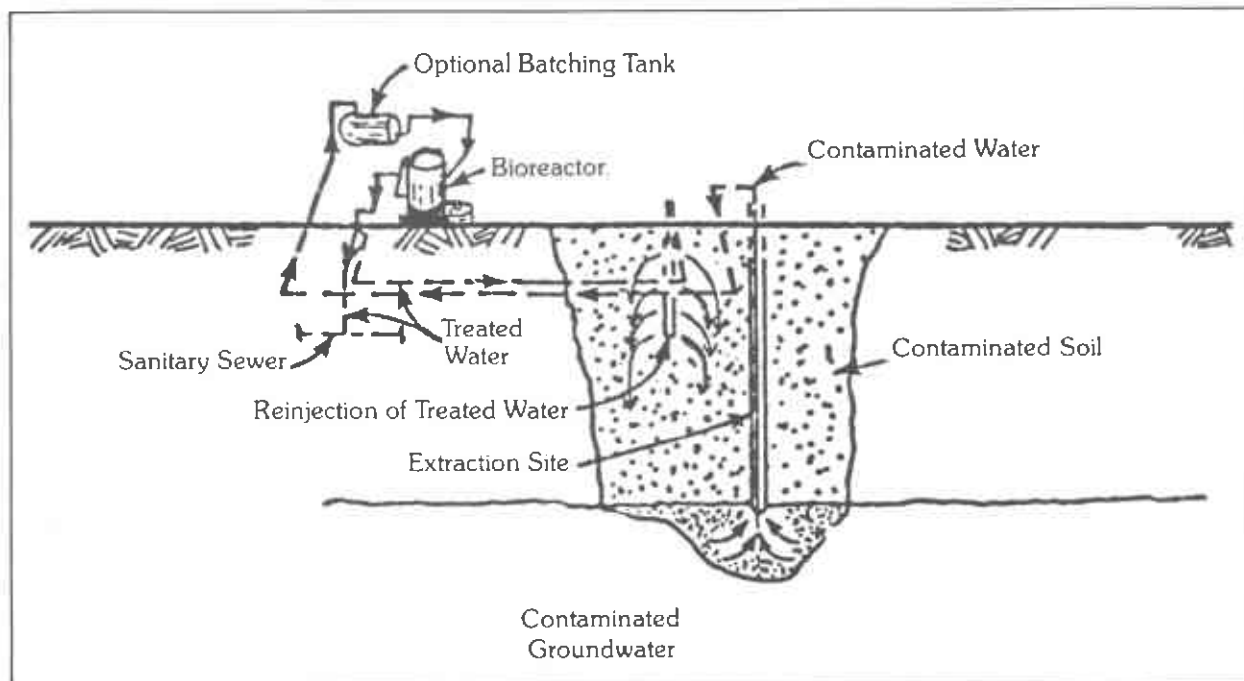
Uriah fluidized-bed biofilm reactors provide a superior technology for the removal of anthropogenic organic compounds, non-toxic organics, and some metals from water and soil. Comprehensive management and careful modeling by Uriah staff permit optimum utilization of the fluidized-bed concept—a technology which combines the advantages of compact size and ultra-high treatment efficiency. These features are made possible by the way in which toxics degrading microorganisms on biofilm support medium move between areas of vary-

ing substrate concentrations as incoming contaminated water lifts, expands, and fluidizes the reactor bed. Each particle of support medium is covered with microorganisms capable of thoroughly degrading pollutants to form harmless compounds such as carbon dioxide, minerals, and water. The large biomass available with the more porous, fluidized-bed system permits rapid degradation of contaminants so that retention time within the reactor system may be as brief as a few minutes.



*Fluidized-bed aerobic / anaerobic reactor modules, such as this 15 gallon per minute aerobic unit may be utilized individually, or in series, to remove organic contaminants from surface, ground and waste waters as well as soil.*

In addition to treating previously excavated soils, Uriah can remediate soils contaminated with hydrocarbons, and some metals, in-place, through the application of vapor extraction, aerobic and anaerobic biodegradation, and soils solidification/stabilization technologies.



Uriah has gained significant experience in the application of macrobiological detoxification processes by utilizing a number of select plant species to treat both hydrocarbon and heavy metals contaminated soils.