SERDP
Strategic Environmental Research and Development Program

Cleanup
CU-861

The NETTS Location at McClellan AFB

NETTS Summary:

The Tri-Service and EPA test locations of the SERDP National Environmental Technology Test Site (NETTS) program comprise a network of well-characterized demonstration sites at DoD installations. The goal of this SERDP-funded program is to provide accessible, well-supported field locations for project proof-of-principle tests, applied research, and comparative demonstrations, as well as to facilitate transfer of innovative environmental technologies from research to full-scale use. The SERDP NETTS program was created primarily for DoD, DOE, and EPA users, but the locations are also available to other agencies and the private sector.

Site Background:

The Air Force is pursuing the privatization of McClellan AFB and other DoD depot installations. McClellan AFB is located near Sacramento, CA, and is scheduled to close in 2001. However, cleanup will continue well into the next century at a cost of more than $1 billion. Air Force cleanup personnel and the NETTS program will remain on site for the duration of the cleanup at McClellan AFB.

Bioreactor installed on demonstration test pad at the base's Groundwater Treatment Plant. All utilities and service connections are provided by the Test Site.

Site Objective:

The primary focus of McClellan NETTS is to provide a well-characterized facility for the research and demonstration of technologies that pursue the detection, monitoring, and cleanup of chlorinated hydrocarbons, fuels, and metals in both vadose zone and groundwater. Most any portion of the base is available for demonstrations conducted under NETTS. McClellan has an active, large cleanup program with eight operational Soil Vapor Extraction (SVE) systems. All systems have dedicated utilities that allow slipstream demonstrations. The McClellan groundwater treatment plant currently services 23 extraction wells. In addition, there are five groundwater treatment systems with 13 extraction wells. The SVE systems and groundwater treatment facilities provide opportunities for demonstrating in-situ and ex-situ techniques for remediating soils and groundwater contaminated with solvents. Both the McClellan NETTS and McClellan cleanup programs are focused on developing and utilizing environmental technologies that have a potential to shorten cleanup schedules and reduce costs. This relationship has resulted in significant sharing of funds, data, and other resources. Remediation of soil with metals will be a focus for the next decade.

Demonstrations Hosted*:

Title	Performer
Use of Cometabolic Air Sparging to Remediate Chloroethene-Contaminated Groundwater	Air Force
Vadose Zone Monitoring System for Volatile Organic Compounds (VOCs) in Soils	DOE-LBNL
Ex-Situ Fluidized Bed Bioreactor for Treatment of VOCs in Groundwater	Envirogen, Inc.
Ex-Situ Fluidized Bed Cometabolic Bioreactor for Treatment of Chlorinated Aliphatic Hydrocarbons in Groundwater	EFX Systems
Passive Diffusion Membrane Sampling	TRW
Innovative Sensors for Measuring VOCs in Groundwater	General Atomics

* List represents a sample of demonstrations at the site.

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