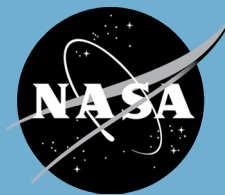


Cleaning Up Groundwater

AT THE SANTA SUSANA FIELD LAB

National Aeronautics and
Space Administration



About NASA at SSFL

- The Santa Susana Field Laboratory (SSFL), located thirty miles northwest of Los Angeles, was historically to support the development of the U.S. space flight program.
- All testing activities have ceased, and cleanup efforts are underway to remove chemicals in the environment that remain from past operations.
- NASA owns and is responsible for cleaning up about 450 acres of the 2,850-acre site.

Groundwater Cleanup

NASA's groundwater cleanup is guided by the 2007 Consent Order for Corrective Action, an agreement with the Department of Toxic Substances Control (DTSC), the regulatory agency overseeing the SSFL cleanup. The Consent Order requires a risk-based cleanup of groundwater—a standard applied by DTSC throughout the State of California.

NEXT STEPS

NASA can begin implementing final cleanup plans once the DTSC completes their California Environmental Quality Act (CEQA) process and issues a decision document approving NASA's cleanup plans. In the meantime, NASA is actively pumping and treating groundwater through the onsite Groundwater Extraction Treatment System (GETS). GETS is an interim measure under the oversight of the DTSC and focused on the removal of contaminants from source areas, where contaminant concentrations are highest. In addition, NASA is conducting pilot studies to test the effectiveness of groundwater treatment methods at SSFL, including bedrock vapor extraction (BVE) and enhanced in situ bioremediation (EISB).

GETS Treatment System Goals

- 1. Remediate Source Zone**
Cleanup targets the source areas where the contamination occurred and where contaminant concentrations are the highest.
- 2. Dewater Seep Zones**
In addition to groundwater treatment, wells in key areas pump groundwater to reduce the water level so seeps don't flow.
- 3. Control Plume**
The treatment of the groundwater beneath SSFL will prevent the contaminants from migrating.

NASA develops final groundwater cleanup plans

NASA completes groundwater investigation

NASA issues Record of Decision for Groundwater Cleanup

DTSC issues Final Program Environmental Impact Report

DTSC issues Notice of Decision for SSFL cleanup

DTSC approves NASA's final groundwater cleanup plans

Groundwater cleanup begins