

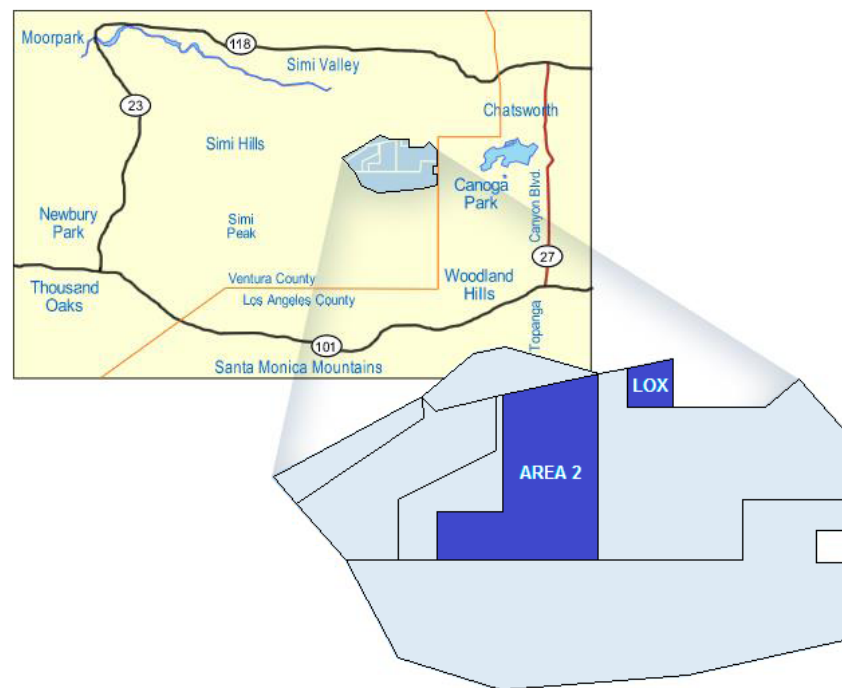


Santa Susana Field Laboratory NASA Update

Background

- The Federal Government and its contractors developed and tested large liquid-fueled rocket engines and components at SSFL Area II from the mid-1950's to the early 2000's, with peak activities occurring from the late 1950's to the mid-1980s.
- Activities resulted in the release of a number of chemicals to soil and groundwater, including solvents (such as trichloroethylene, or TCE), metals, petroleum hydrocarbons, polychlorinated biphenyls (PCBs), and dioxin/furan compounds.
- The 2010 Administrative Order on Consent (AOC) between DTSC and NASA requires soil chemical investigation to local background or detection limit concentrations. This investigation was completed in 2014, and a Draft Data Summary Report of the results is being revised based on March 2016 DTSC comments.
- Groundwater impacts, mostly from solvents, are being investigated and will be remediated under a 2007 Corrective Action Consent Order between DTSC and NASA. Extensive NASA groundwater source investigations will be complete in 2016.

NASA SSFL LOCATION MAP



Santa Susana Field Laboratory – properties owned by the Federal Government and administered by NASA.



Progress Towards NASA SSFL Cleanup

Soils Characterization Program completed in 2014

- 2,800+ soil samples and 160+ soil vapor samples collected since 2011, older data has also been reviewed and evaluated.
- Extent of NASA soil chemical contamination has been defined to DTSC's 2013 Lookup Table values.
- NASA's May 2015 **Draft Data Summary Report** for soils is currently under revision based on March 2016 DTSC comments.
- NASA soil treatability studies completed, final report is under preparation for 2016 release.

Groundwater Source Investigations in progress

- Investigation and characterization are underway at the four major NASA sites impacted by solvent releases.
- The program includes new deep borings and wells, soil vapor sampling, geophysics, aquifer testing, and fault mapping.
- Investigations will be complete and results reported to DTSC in 2016.

NASA demolition program underway

- Former ELV area cleared of buildings in 2015
- Non Test Stand Structures to be removed in 2016-2018

CEQA Environmental Impact Report (EIR) in preparation

- EIR in preparation by DTSC for public release in 2016.

Upcoming Milestones and Documents

DTSC's **Environmental Impact Report (EIR)** for SSFL will be released for public review in 2016.

NASA will prepare a **Draft Soils Remedial Action Implementation Plan (SRAIP)** for DTSC review in 2016.

NASA / DTSC Technical Documents

DTSC SSFL web site:

http://www.dtsc.ca.gov/SiteCleanup/Santa_Susana_Field_Lab/ssfl_document_library.cfm

- Go to "NASA" section, select topic of interest

NASA SSFL web site: <http://ssfl.msfc.nasa.gov>

DTSC Contact for NASA SSFL

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