



# BOEING'S CLEANUP PROGRESS AT SSFL



## Background

Boeing soil cleanup areas at SSFL include approximately 1940 acres.

- 2850 total acres at SSFL
- 21 sites (covering approximately 162 acres)
- Former Shooting Range
- Southern Buffer Zone

Boeing activities were primarily research, development, and testing for liquid fueled rocket engines and components (1950-2006)

- Chemical contamination from operations is primarily solvents, fuels, metals
  - Also contamination from byproducts of those substances

Boeing characterization program covers all Boeing areas

- A proximately 1800 acres not associated with operations were screened, and have been sampled where activities or soil disturbances are identified.

## Past Work

### **Surficial Media (Soils) Program**

- Soil Sampling Field Work complete for all 30 soil sampling activities
  - Over 7500 soil samples and 650 soil vapor samples collected since 2012

## Current Status

### **Surficial Media (Soils) Program**

- Characterization (RFI) Reports in progress
  - 9 multi-volume report packages scheduled
  - 2 Report Packages submitted in June and July of 2015. DTSC reviewed the reports. Subarea 5/9 South RFI Report was resubmitted in April 2017.

### **Groundwater Program**

- Source zone characterization work is at the individual site level, the sitewide groundwater program incorporates all sites
- Sitewide Groundwater RFI Report in progress.
- Groundwater Interim Measures (GWIM)
  - Construction Complete
  - WDR Permit in progress
- Treatability studies for groundwater cleanup
  - In-situ chemical oxidation testing in complete. Report in review.
  - Laboratory testing for biological reduction of VOCs ongoing. Interim report/paper in progress.

## Upcoming Work (Next 6 months)

### **Surficial Media (Soils) Program**

- Anticipated RFI Report Submittal
 

• Subarea 1A Central— May 2017	• Subarea 1B SE – September 2017
• Subarea 10 – June 2017	• Subarea 1B North – October 2017
• Subarea 5/9 North – July 2017	• Subarea 1A North – December 2017
• Subarea 1A South – August 2017	• Subarea 1B SW – December 2017
- Risk Assessment
  - Anticipate revision of the SRAM Rev 2 Addendum.

### **Groundwater Program**

- Anticipate Sitewide Groundwater RFI Submittal in November 2017
- GWIM startup in Summer 2017

For an update on the Former Shooting Range, please see the Former Shooting Range presentation board.