DTSC Project Update Santa Susana Field Laboratory Activities

March 1, 2012

SSFL Areas & Sites



DTSC-SSFL Regulatory History

 1991-2008 Site under DTSC RCRA Corrective Action Process

- Consent Order (Aug 2007)
 - Boeing/DOE/NASA
 - Soil and Groundwater
 - Clean-up to acceptable risk levels

DTSC-SSFL Regulatory History

- 2007 SB990 Cleanup to Rural Agricultural
 - Applied to Boeing/DOE/NASA
 - Boeing Challenged in Court (Nov 2009)
 - District Court ruled in Boeings favor (April 2011)
 - DTSC appealed court ruling

DTSC-SSFL Regulatory History

- Administrative Orders on Consent (Dec 2010)
 - Separate AOCs for DOE and NASA
 - Requires soil cleanup to background or reporting limit levels
- Groundwater is responsibility of all three responsible parties
 - Covered under 2007 Consent Order

SSFL Site-wide Issue Background Studies

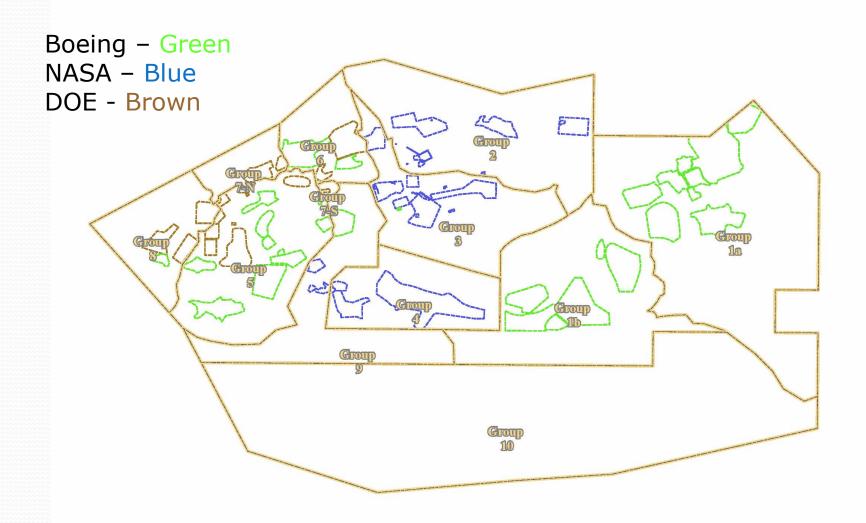
Radiological – US EPA

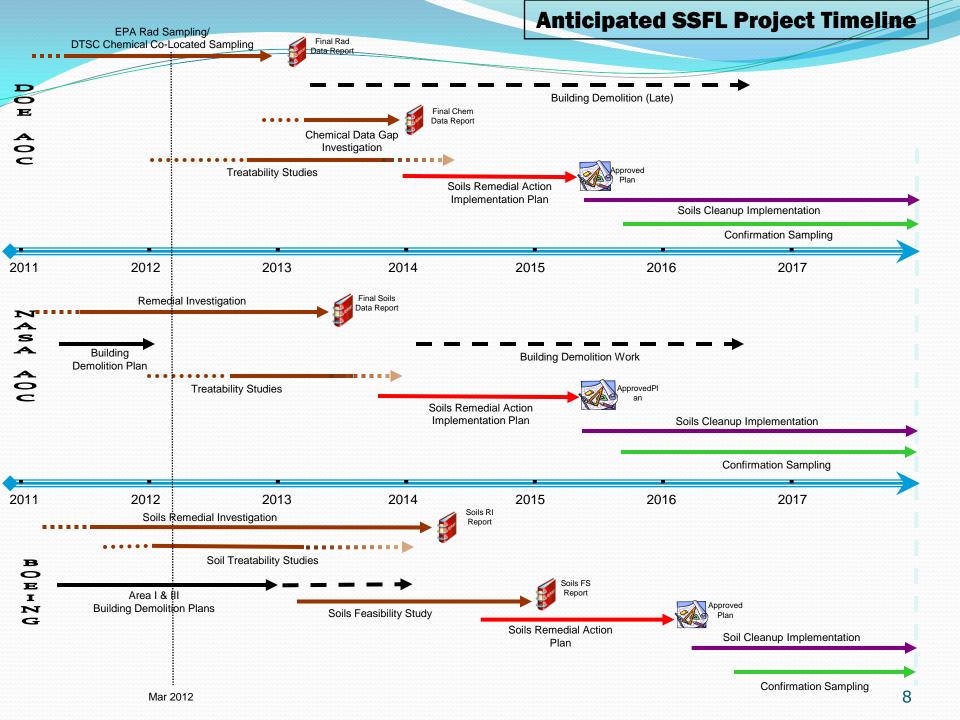
- Completed radiological background study (Oct. 2011)
 - Off-site background location

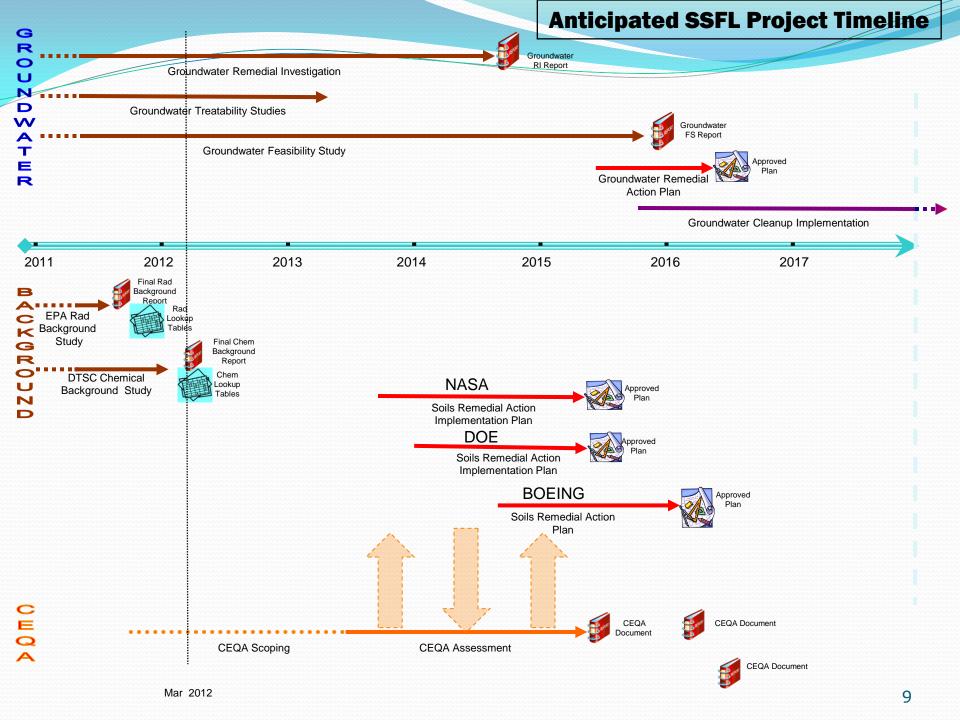
Chemical - DTSC

- Off-site background locations
- Field work complete in November 2011
- Validated analytical results coming in
- Anticipate data available in March 2012
- Anticipate draft report May 2012

SSFL Groups







DOE

Groups 5, 6, 7 & 8

- DOE conducting chemical sampling
- US EPA conducting radiological sampling
 - Area IV & Northern Buffer Zone
 - Completed Phase 1 field work sampling at Area IV DOE sites
 - All Phase 1 locations were co-located (radiological & chemical samples) with community stakeholder input
 - Results being presented at community meetings
- Preparing to conduct step-out sampling to define extent
 - Radiological and Chemical on separate tracks

DOE

 All US EPA radiological characterization sampling complete and report out at end of 2012

- EPA will do radiological confirmation sampling during cleanup
- DOE chemical characterization complete early 2014

NASA Activities Groups 2, 3, 4 and 9

- NASA sites broken into 6 manageable portions
- Field sampling for chemicals started 2011
 - Soil and soil gas samples
- Field Sampling Plans (FSPs) and sampling locations discussed w/ community stakeholders at meetings

NASA Activities

Field Sampling Plans

- FSP1 & 2 field work complete awaiting data
- FSP-3 field work underway
- FSP-4 being finalized
- FSP-5 being developed
- FSP-6 will be to fill data gaps

Complete characterization completed in 2013

Boeing Activities Groups 1A, 1B, 5, 6, 8, 9 & 10

- Investigation Field Sampling Plans
 - Start Late Spring 2012
- Treatability Study Workplan
 - DTSC approved starting laboratory studies
 - Chemical Oxidation
 - Thermal heating rock core
 - Bio-stimulation
 - Microbial studies of rock core and porewater
 - Proposed Field Tests
 - Bedrock vapor extraction
 - In-situ chemical oxidation (groundwater)

Boeing Activities

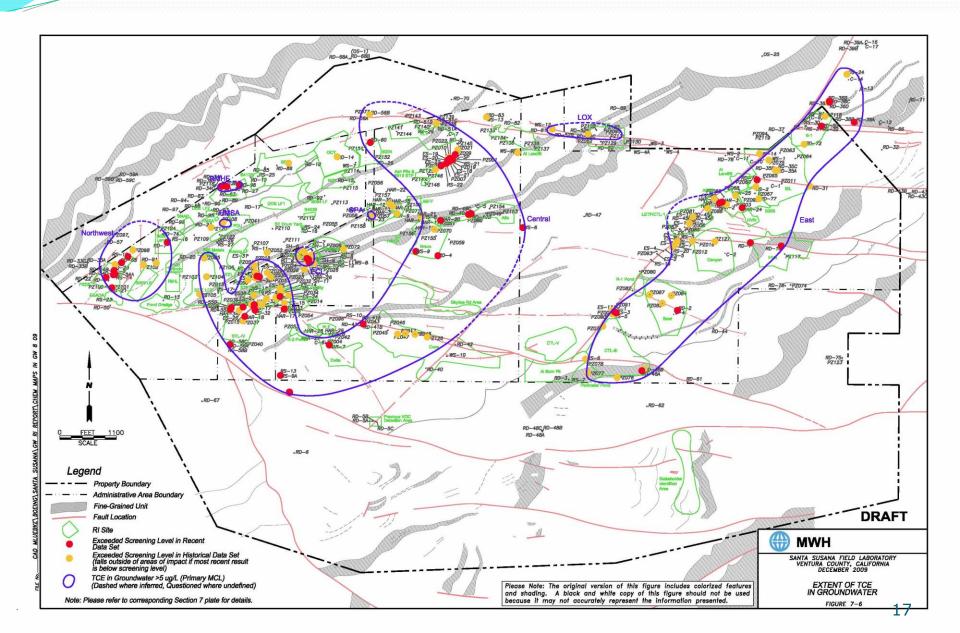
- Demolition Activities
 - Completed
 - Component Test Lab (CTL) -V (Group 1B)
 - Canyon Test Area (Group 1A)
 - Erosion controls installed at
 - CTL-III (Group 1B)
 - Groundwater Treatment Systems, Areas I, II and III

SSFL Site-wide Issues Groundwater

- Remedial Investigation Report
 - DTSC issued comments
 - Meeting with Responsible Parties in March to discuss responses
- Groundwater Interim Measures
 - Operate wells from source areas
 - DTSC working on CEQA documentation
- Seep & spring sampling
- Quarterly groundwater sampling



SSFL TCE Contaminated Groundwater



SSFL Site-wide Issues Look-up Tables

- Required in AOC's and would be cleanup levels
- Based on Background Threshold Level or Reporting Limit (chemicals)/Minimum Detection Concentration (radionuclides)
- EPA will provide draft radiological Look-up Table
- DTSC will develop chemical Look-up Table

SSFL Site-wide Issues CEQA

Working with DOE and NASA to integrate the federal NEPA (National Environmental Protections Act) and state CEQA (California Environmental Quality Act) processes and documents

Interagency Coordination

 DTSC participates in bi-weekly ISRA (Interim Source Removal Actions) coordination calls

 Nov 2011, DTSC & LA RWQCB joint letter approving the Expendable Launch Vehicle - Interim Source Removal Actions

Questions

Mark Malinowski
DTSC-SSFL Branch Chief
916.255.3717
Mmalinow@dtsc.ca.gov