

Community Biannual Update Santa Susana Field Laboratory April 28, 2015

Ray Leclerc

Assistant Deputy Director
DTSC Cleanup Program



Department of Toxic Substances Control



Cal/EPA

Agenda

- Introduction
- SSFL Overview
- DTSC Breakout Discussions with Q&A (round robin format)
 1. Boeing Activities
 2. NASA Activities
 3. DOE Activities
 4. SSFL Groundwater Activities
- Community Questions and Answers
- Closing Remarks/Wrap up

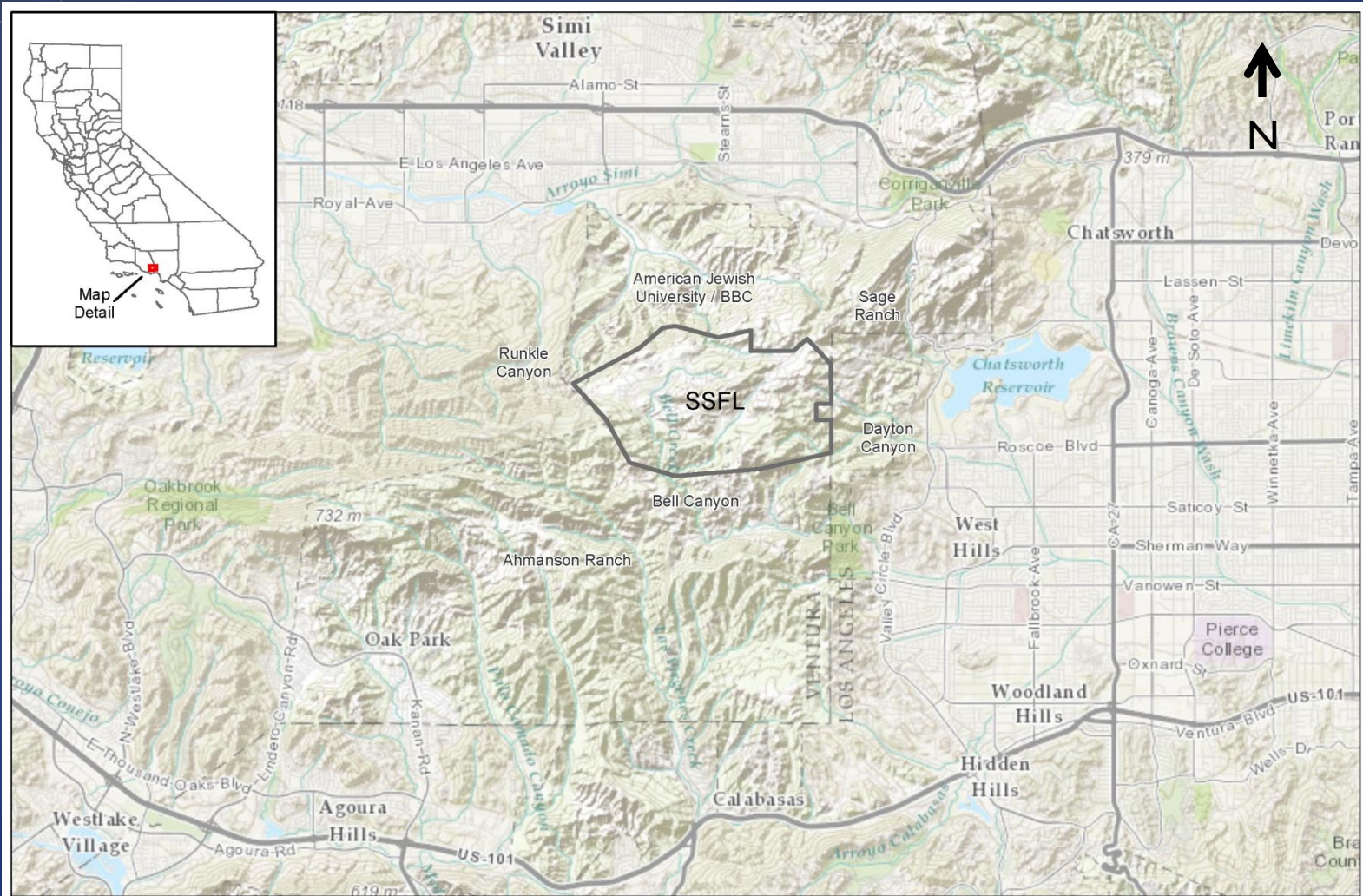
DTSC's Mission

To protect California's people and environment from harmful effects of toxic substances by restoring contaminated resources, enforcing hazardous waste laws, reducing hazardous waste generation, and encouraging the manufacture of chemically safer products.

Santa Susana Field Laboratory



Location of Santa Susana Field Laboratory

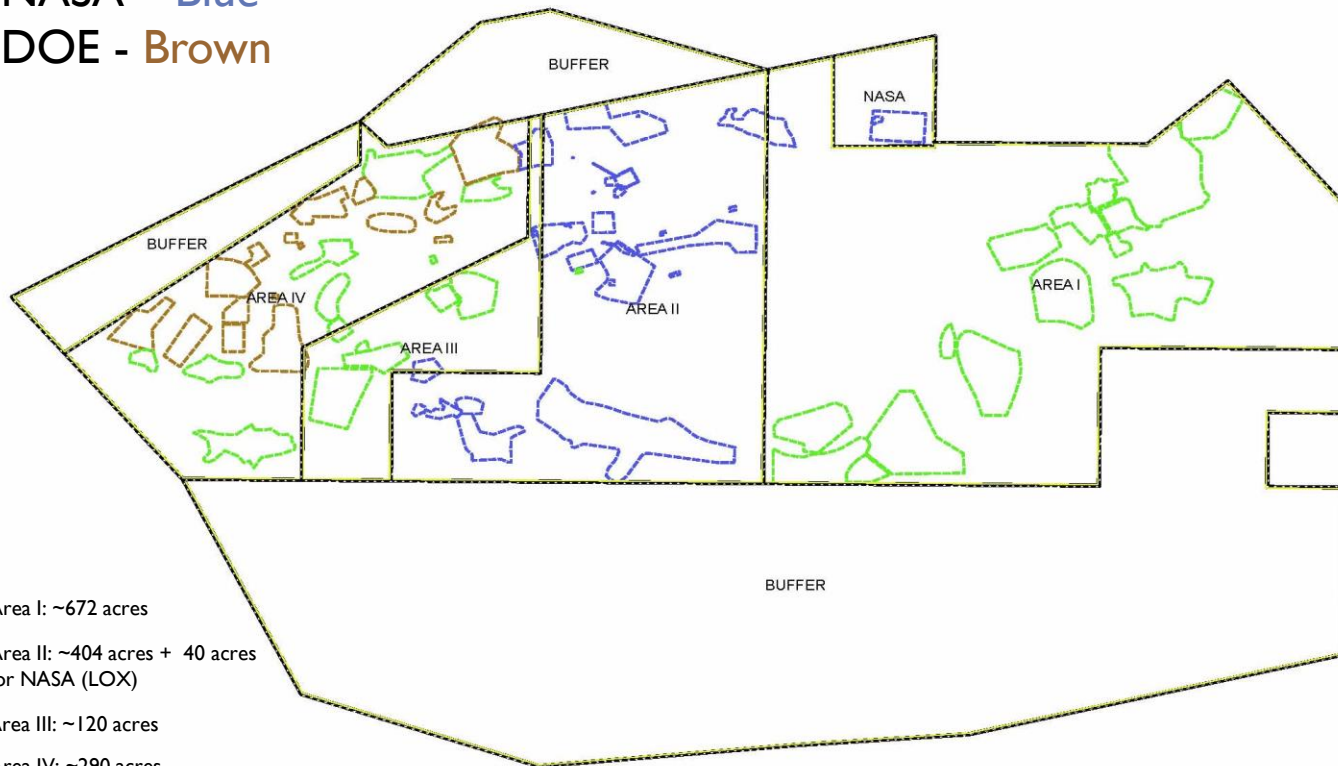


Cleanup Orders

- The Boeing Company – 2007 Consent Order
- NASA – 2010 Administrative Order on Consent
- DOE – 2010 Administrative Order on Consent

SSFL Areas & Sites

Boeing – Green
NASA – Blue
DOE - Brown



Area I: ~672 acres

Area II: ~404 acres + 40 acres
for NASA (LOX)

Area III: ~120 acres

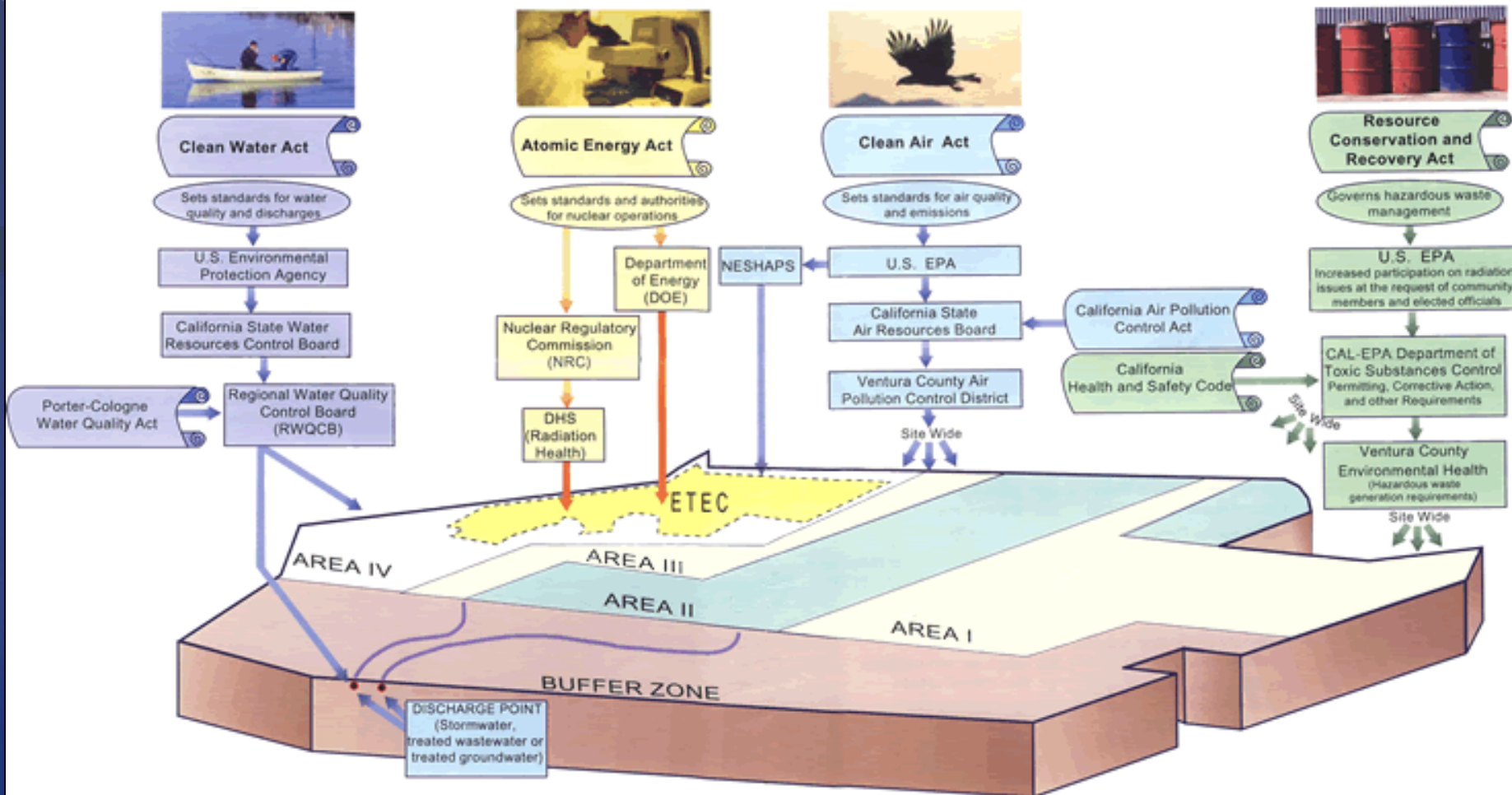
Area IV: ~290 acres

Southern Buffer: ~1,143 acres

Northern Buffer: ~182 acres

SSFL is ~ 2,850 acres

Overseeing SSFL – Agencies and Laws



Investigation and Cleanup Process

Facility Investigation

Determine the extent of soil and groundwater contamination

Corrective Measures Study

Evaluate potential cleanup alternatives

Proposed Remedy Selection

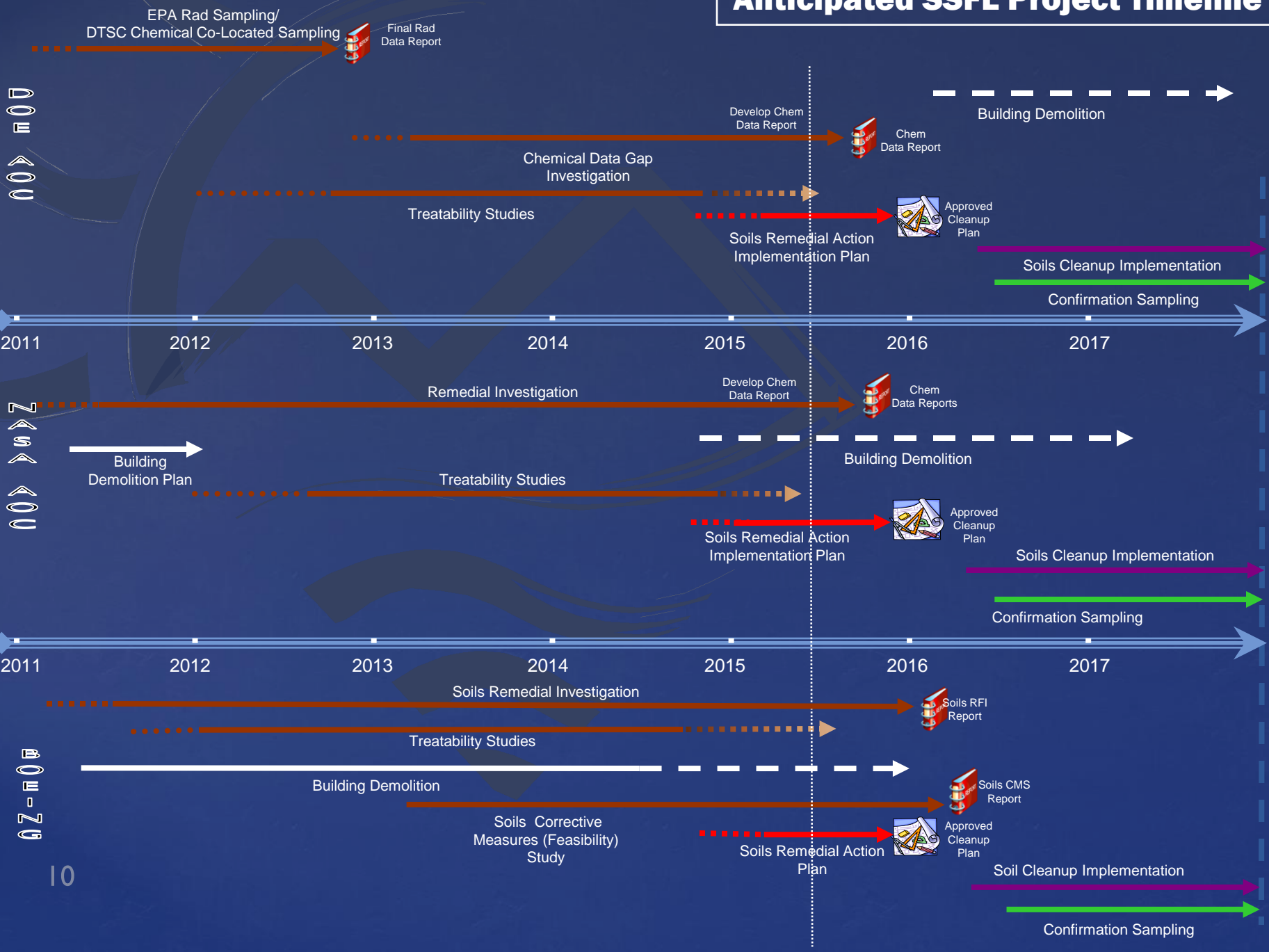
Proposed remedy available for public comment

Final Remedy Selection and Cleanup Implementation

After consideration of public comment a final cleanup plan is selected

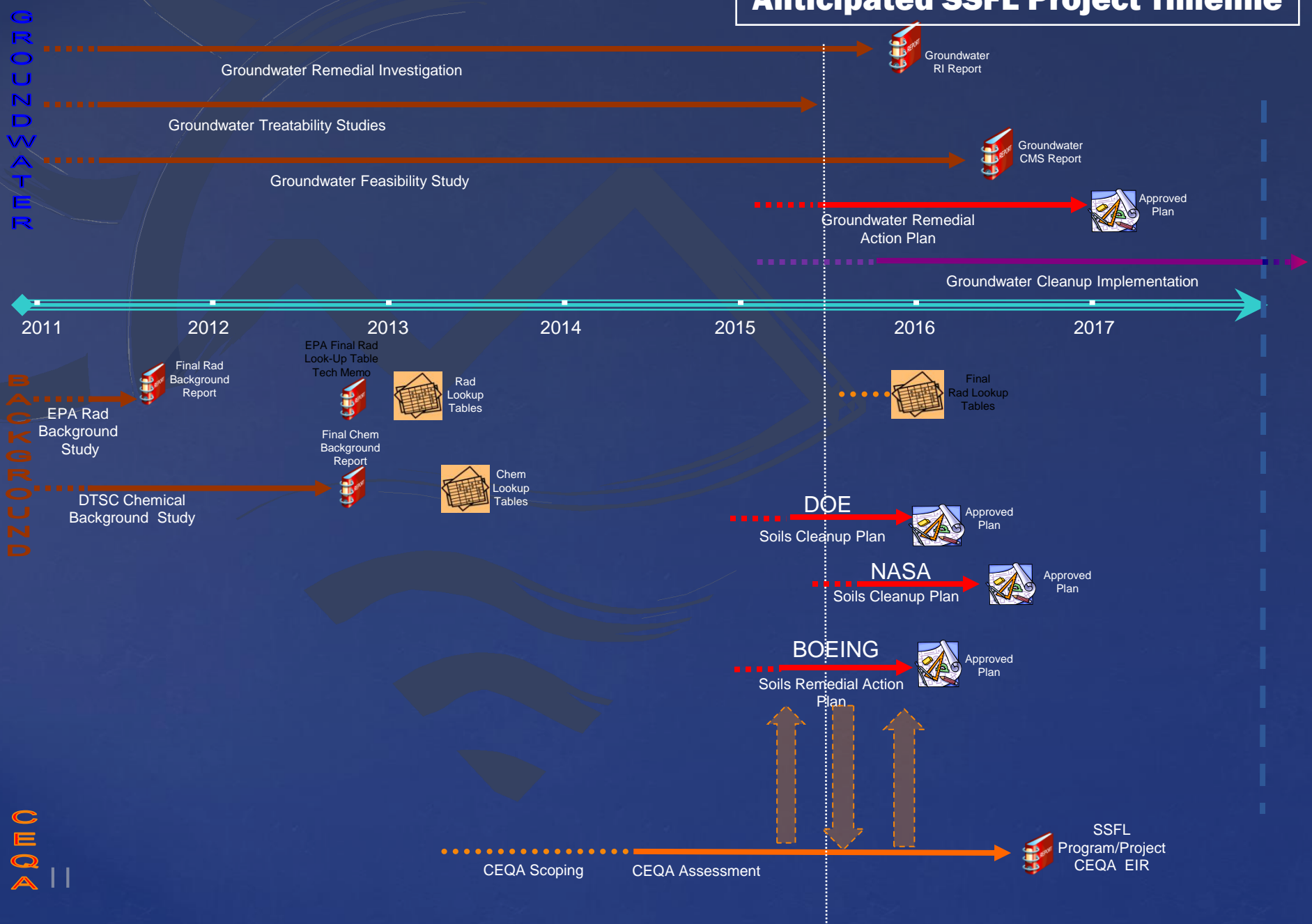
Public Participation conducted throughout.
DTSC will apply and comply with CEQA.

Anticipated SSFL Project Timeline



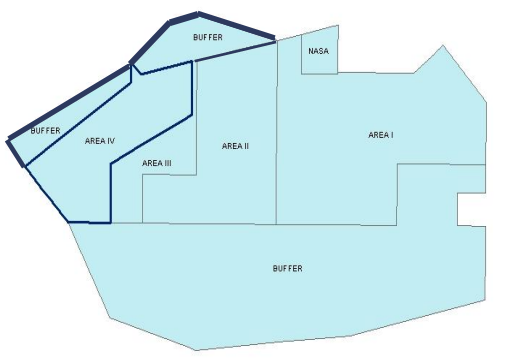
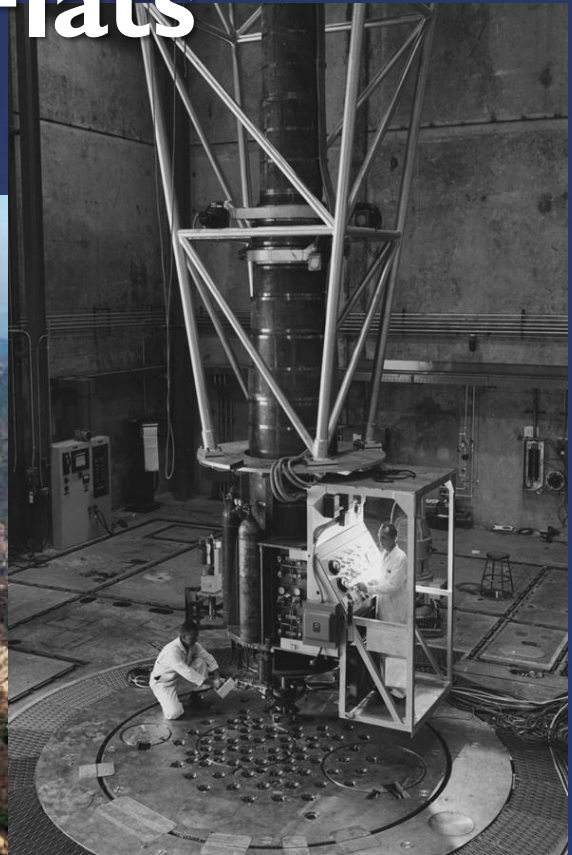
May 2015

Anticipated SSFL Project Timeline



May 2015

DOE Area IV - Burro Flats



DOE Status

- Soils characterization program

Field work complete in 2014

- Groundwater source investigations

Currently underway



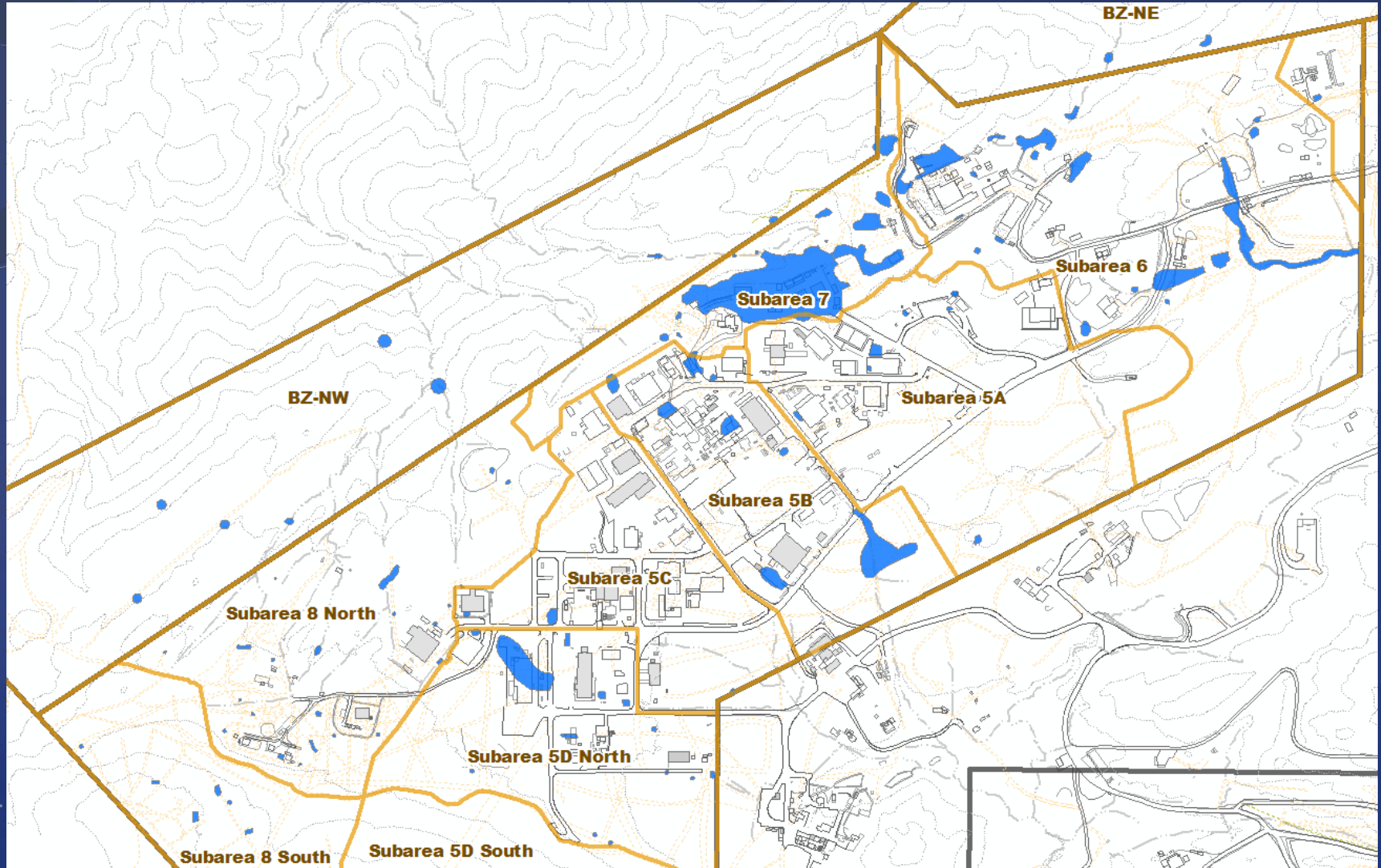
- Soil treatability studies

To complete in 2015

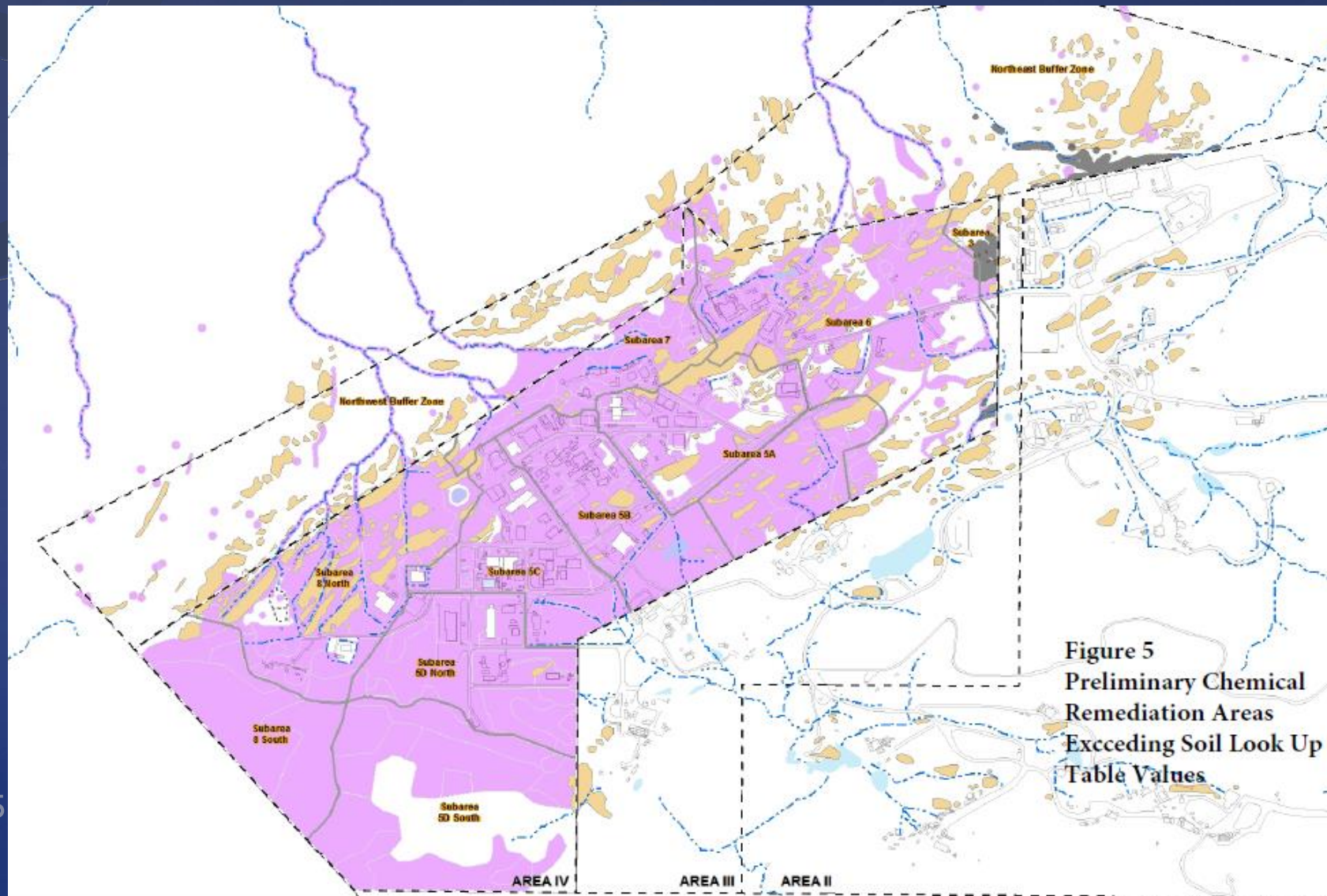
- Demolition program

To begin after DOE completes NEPA

Preliminary Cleanup Areas Radiological



Preliminary Cleanup Areas Chemicals

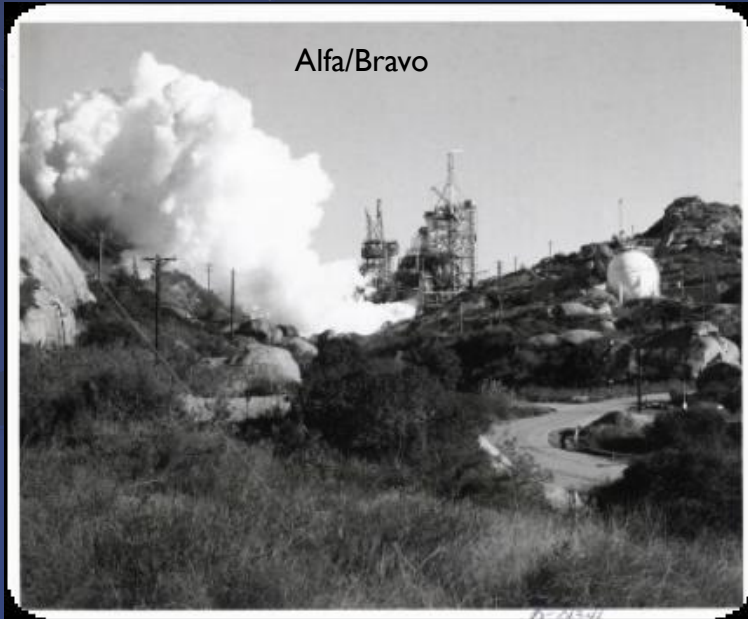


NASA Coca Area Test Stands



NASA Status

Alfa/Bravo



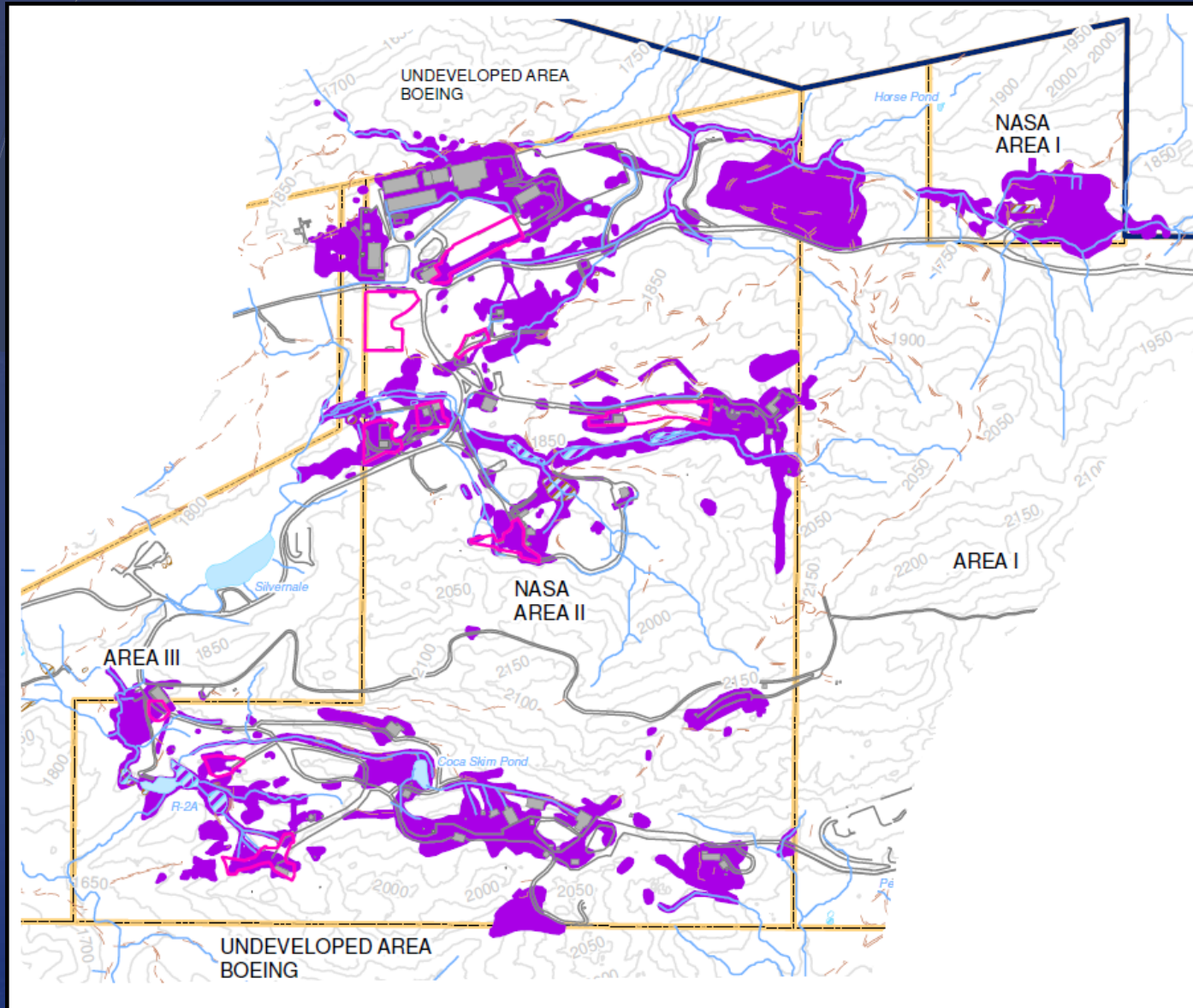
- Soils characterization
Field work complete in 2014
- Groundwater
Four major investigation areas

- Soil and groundwater
treatability studies
To complete in 2015
- Demolition program

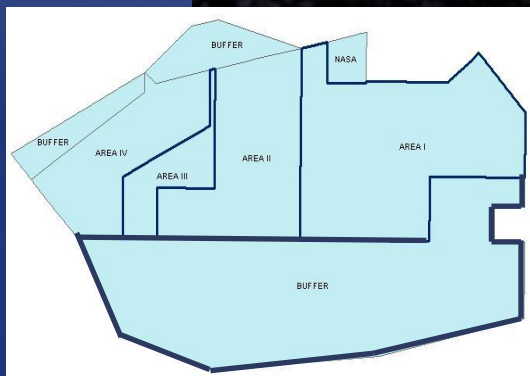


Liquid Oxygen (LOX) Buildings

NASA Impacted Soils



The Boeing Company - The Bowl



Boeing Status



- Soils characterization
To complete in 2015
- Groundwater
Major investigation areas almost complete

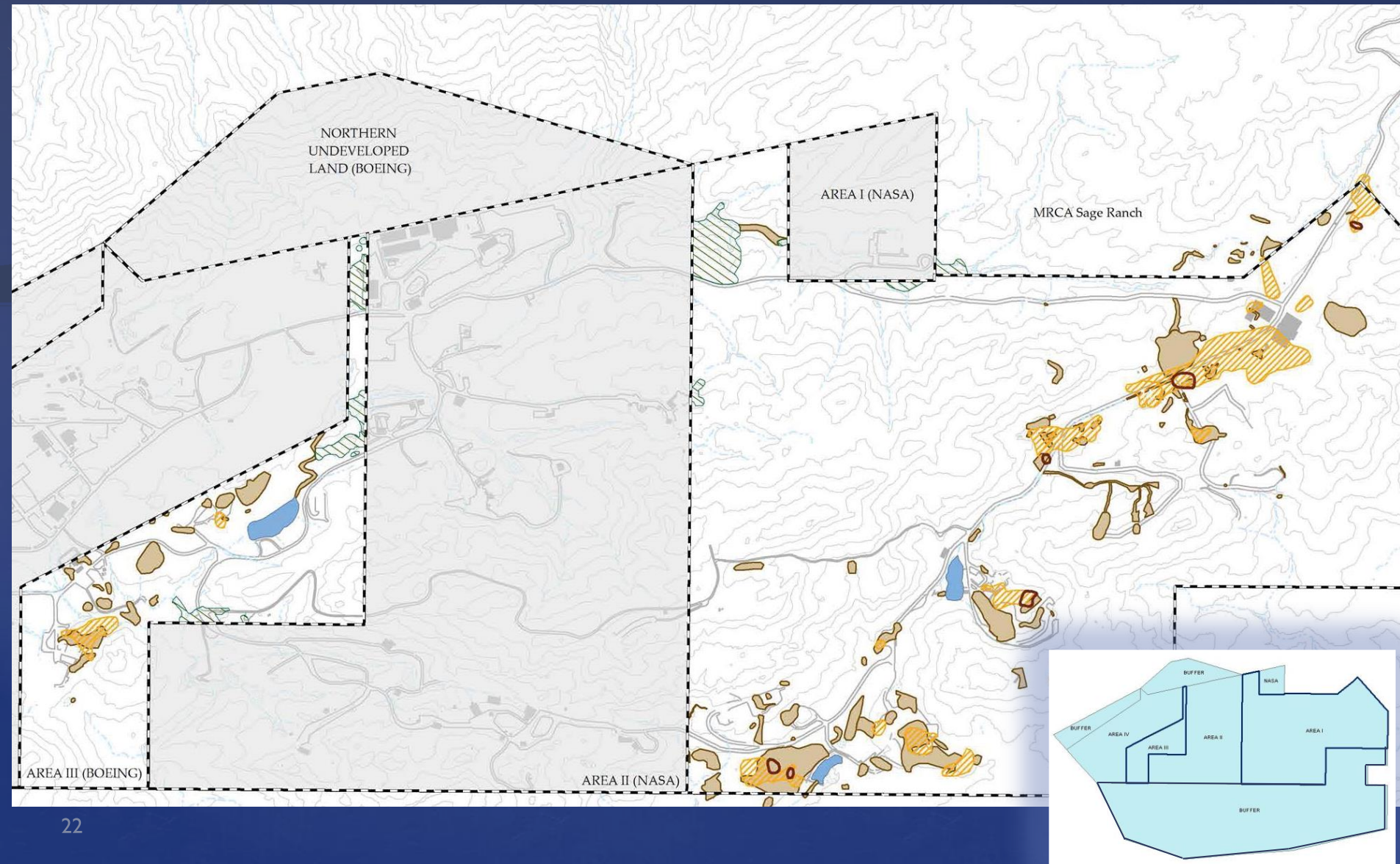
- Groundwater
treatability studies
To complete in 2015
- Demolition program



Component Testing Laboratory III



Boeing Soil Characterization



Site-wide Treatability Studies

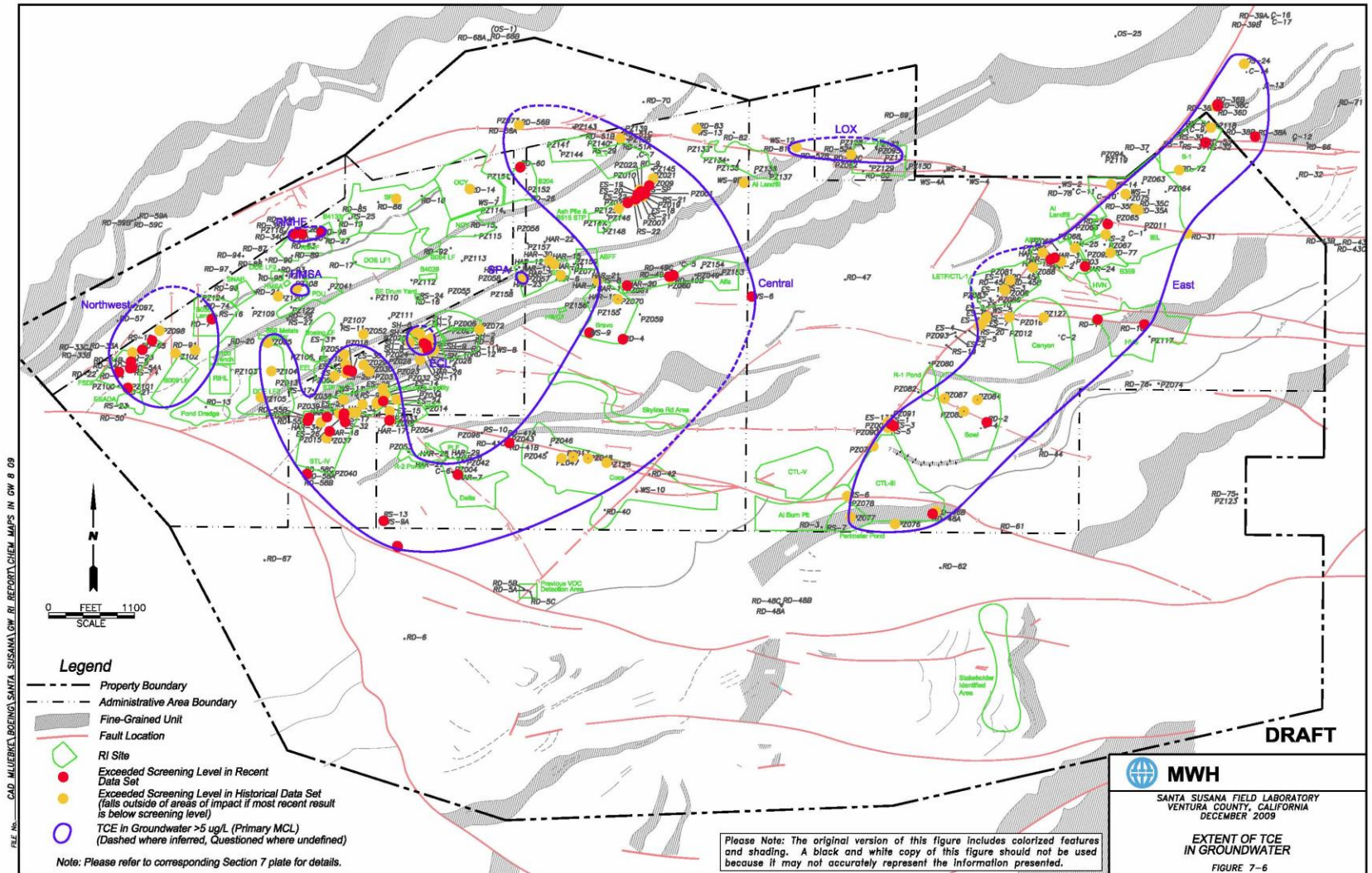
- Treatability Study Workplan
 - Studies to assess ways to get to cleanup without removing soils or pumping groundwater
 - Bedrock vapor extraction
 - Monitored Natural Attenuation (Groundwater & Soils)
 - In-situ Chemical Oxidation (Groundwater)
 - Land farming/Bioremediation (Soils)
 - Phytoremediation (Soils)
 - Soil partitioning studies

Site-wide Groundwater

- Remedial Investigation Report
 - Identified data gaps
 - Address fault and seep sampling
- Groundwater Interim Measures
 - Operate wells from source areas
 - Implement in 2015
 - Quarterly groundwater monitoring



TCE Contaminated Groundwater



FILE NO. CAD MUEBEKVE/BOEING/SANTA SUSANA GW RI REPORT/CIEM MAPS IN GW & CG

Site-wide California Environmental Quality Act

- Draft program Environmental Impact Report (EIR)
 - Will address cleanup actions for all three responsible parties
 - Will propose alternative routes and conveyance system
 - Will address impacts to cultural and biological resources
- Work with interested parties as we develop draft EIR
- Draft EIR Available Fall 2015

What's Next (next six months)

- Draft Environmental Impact Report
- Soils
 - Complete investigations
 - Treatability studies
 - Cleanup Decision documents
- Groundwater
 - Start-up Groundwater Interim Measures
 - Investigation
 - Review and assess
 - quarterly reports, draft Seeps/Springs report, fault study reports, source zone workplans and reports

Technical Roundtable meetings

Boeing Soil/Groundwater/Treatability Studies Public Update Meeting

- May 19, 2015 6:30 pm to 8:30 pm
- At DTSC Chatsworth Office

DTSC Community Outreach

- DTSC- SSFL Website

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

- Monthly Updates
- Calendar of SSFL Events

Breakout Discussions

1. Boeing Activities
2. NASA Activities
3. DOE Activities
4. SSFL Groundwater Activities