



**Santa Susana Field Laboratory**  
Ventura County, California

April 25, 2008

[http://www.boeing.com/aboutus/environment/santa\\_susana/index.html](http://www.boeing.com/aboutus/environment/santa_susana/index.html)

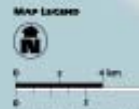
# Agenda

- 10:15 a.m.      Introductions
- 10:20 a.m.      Site Overview
  - Boeing
  - DOE
  - NASA
- 10:50 a.m.      Safety Bulletin
- 10:55 a.m.      Quick Break
- 11:00 a.m.      Site Tour
- 12:30 p.m.      Depart

# Parklands and Wildlife Corridors

In Greater Los Angeles and Ventura Counties

Santa Monica Mountains Conservancy  
Mountains Recreation and Conservation Authority



This map is intended for general reference only. Park boundaries are not intended for legal use. Reproduction of this map in any portion thereof constitutes infringement of copyright.

- Conservancy Acquisitions Fiscal Year 2000/2001
- Public Parklands
- Private Protected Open Space
- Other Public Open Space
- Area of the Valley Corridor
- Interstate Highway
- U.S. Highway
- State Highway
- City Highway
- Secondary Road
- Railway
- Aqueduct
- Trail
- Wildlife Crossing

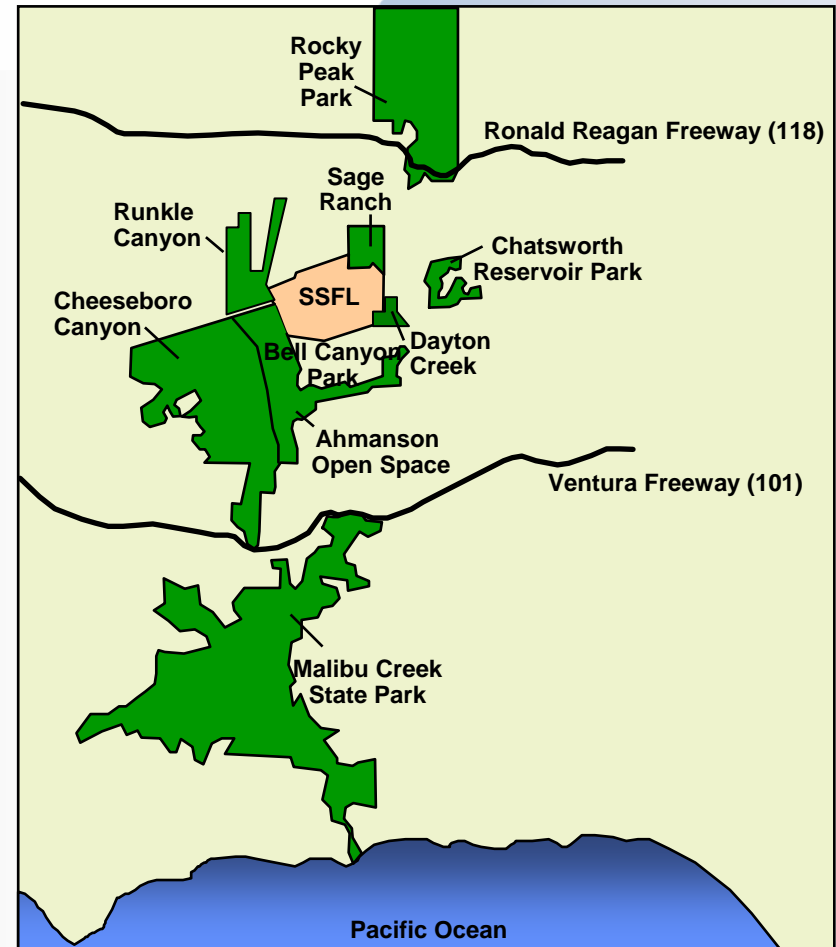
Bound, soil and hydrography data: U.S. Geological Survey 1:100,000 Digital Line Datasets  
 Terrain data: U.S. Geological Survey 1:24,000 Digital Elevation Models  
 Cartography: Esri/MapInfo, 2004 by David Stone. Copyright © 1999, Simulations Cartography (ESRI/MapInfo)

**Santa Susana**

# The Boeing Vision of Santa Susana

## Preservation of a vital wilderness link from the mountains to the Pacific

- Remediate, protect and return the land to the public
- Designate the property as open space parkland
- Communicate consistently in an open and transparent manner
- Prohibit any residential development or agricultural uses
- Connect more than 60,000 acres of open space at the nexus of the San Fernando, Simi and Conejo Valleys



**Boeing is committed to a thorough and timely cleanup that complies with very stringent cleanup requirements, as determined by the appropriate governmental agencies**



# Santa Susana

## Site Background

2,850 acres – 2 miles x 3 miles

Areas I, III, & IV – Boeing 2,400 acres

Area II – NASA 450 acres

Area IV – Boeing 290 acres, DOE leased 90 acres

1,300 acres undeveloped land

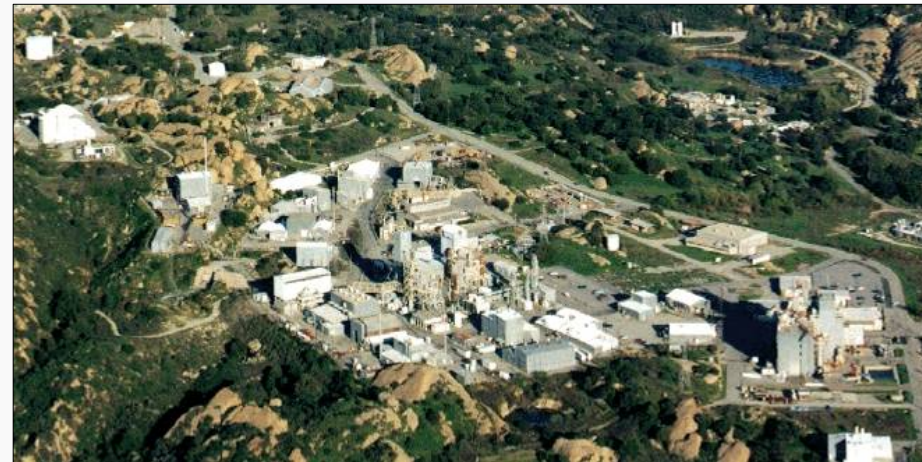
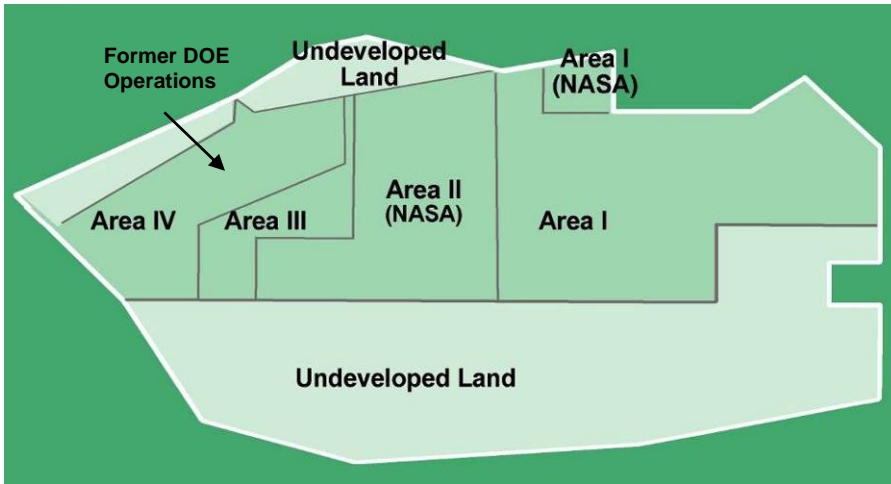
## Historical Operations

Rocket Engine Testing

Nuclear and Alternative Energy Research

## Responsible for Cleanup

Boeing, DOE, NASA





# Santa Susana Looking East Toward the San Fernando Valley





# A Natural, Cultural and Historic Resource

## Burro Flats Pictographs



## AIAA Historic Aerospace Site



## 115 Observed Plant and Animal Species – 12 Protected Species



**Coast Horned Lizard (*Phrynosoma coronatum*)**  
Federal Species of Concern / California Species of Special Concern



©Michael Tuma



**Santa Susana Tarplant (*Deinandra minthornii*)**  
California Rare Species



**Branton's Milk-Vetch (*Astragalus brauntonii*)**  
Federally Endangered Species



# Santa Susana Environmental Cleanup

## DOE Radiological Cleanup

Lead Agencies: DOE, DPH



## Surface Water Treatment & Monitoring

Lead Agency: RWQCB



## Soil & Groundwater Cleanup (Chemical)

Lead Agency: DTSC



## Building Demolition & Restoration

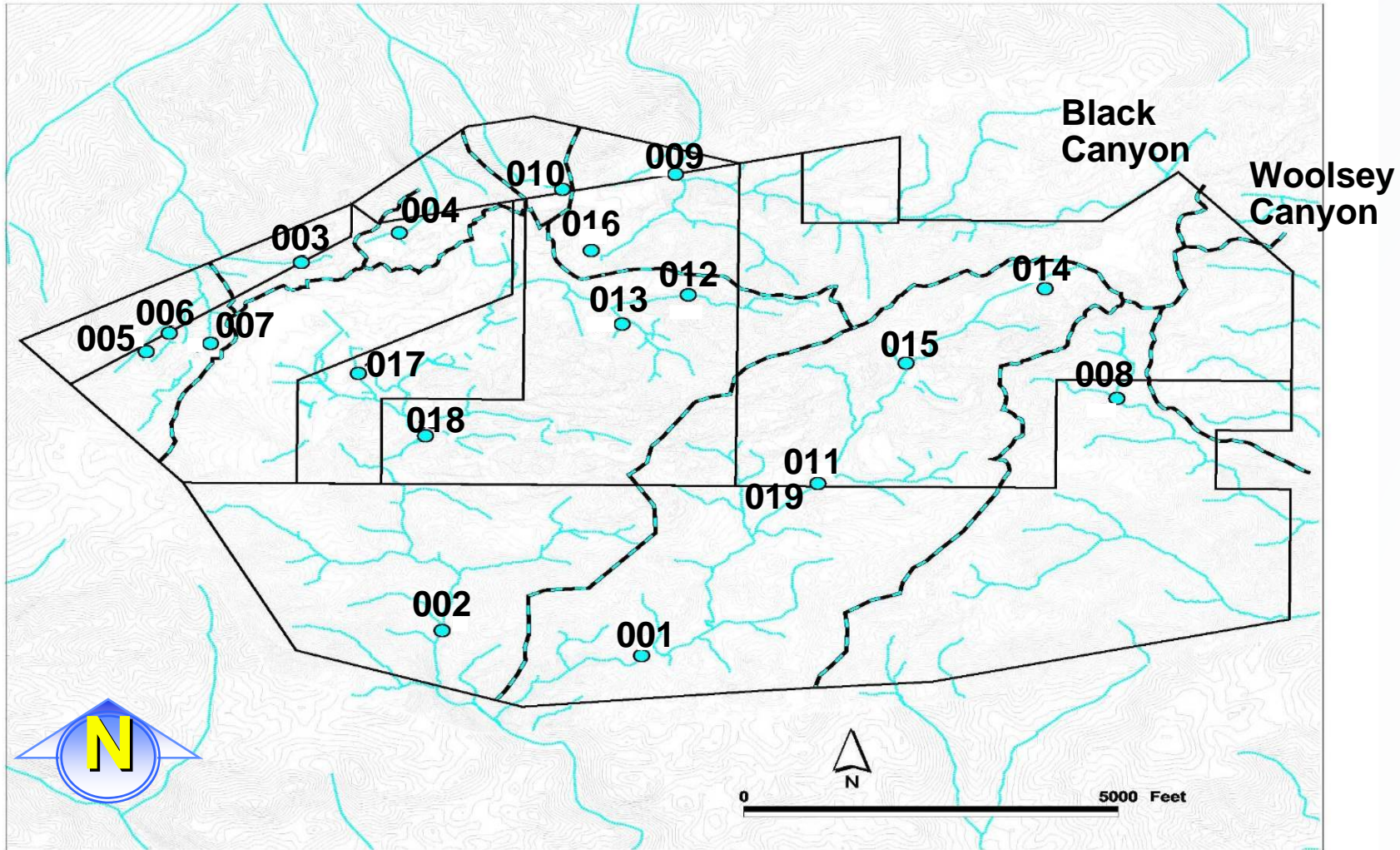
Lead Agency: Ventura County





# Surface Water Treatment and Monitoring

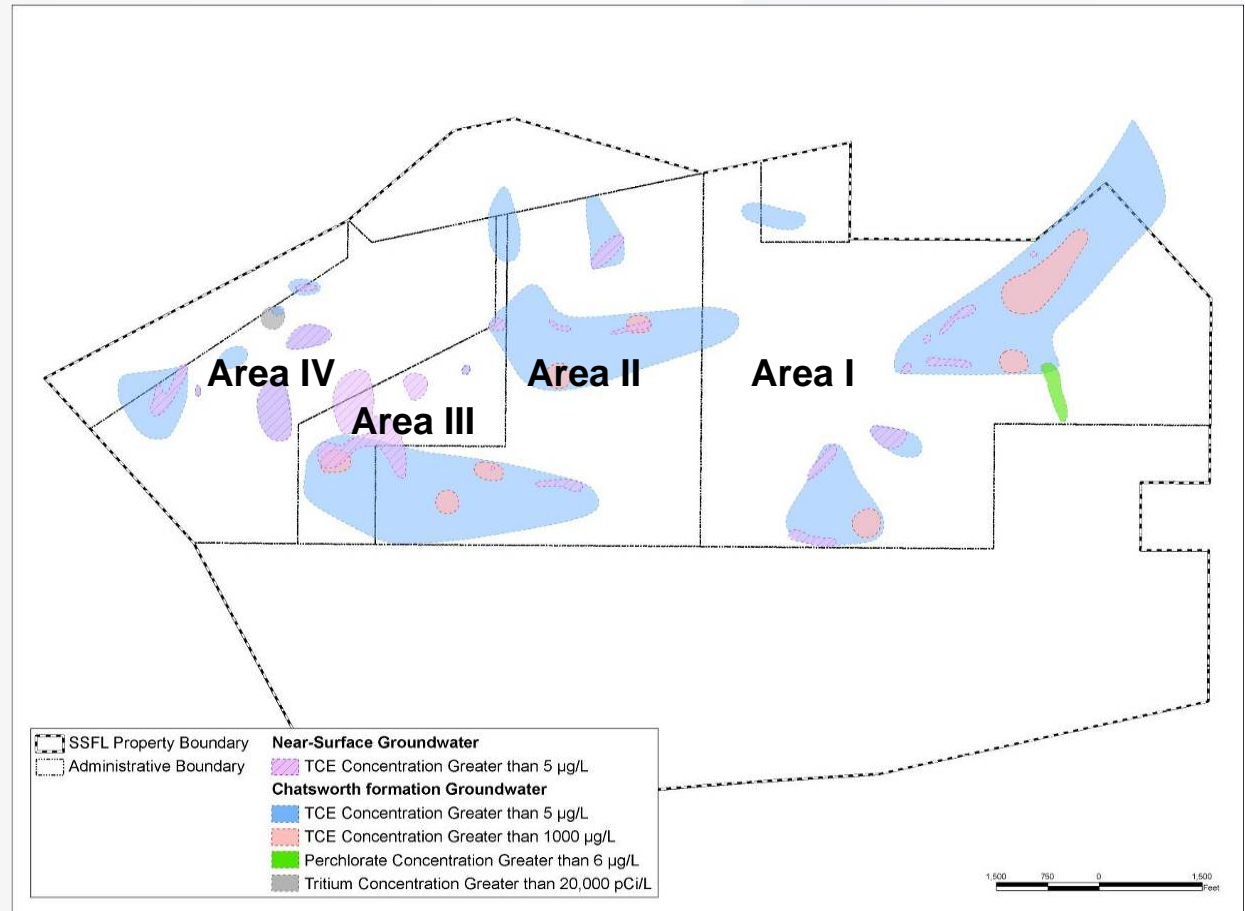
Lead Agency: Los Angeles Regional Water Quality Control Board



# Soil & Groundwater Cleanup (Chemical)

Lead Agency: Cal-EPA Department of Toxic Substances Control

- Soil and groundwater cleanup required under Resource Conservation and Recovery Act
- Consent Agreement Signed with DTSC which governs the cleanup
- 135 Source areas under investigation
- 18 groundwater plumes
- Groundwater contamination extends offsite ~1,000 feet in one area
- Numerous interim cleanups completed





# Clean Up Schedule

TASK	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021+
<b>Environmental Remediation</b>														
Soil and Groundwater Investigation	█													
Environmental Impact Statement (DOE)	█													
ETEC Facility Closure (DOE)				█										
Superfund Listing Decision	▲													
Cleanup Feasibility Study		█												
Environmental Impact Report (Site Wide)						█								
Soil Cleanup and Groundwater Remedy Construction							█							
Interim Groundwater Treatment and Monitoring	█													
Long Term Groundwater Treatment and Monitoring (30 yrs)											█			
<b>Surface Water</b>														
Design Storm Decision	▲													
Treatment System Upgrades		█												
Permit Renewal Hearing		▲					▲					▲		
Operations, Maintenance, & Monitoring	█													
<b>Boeing Building Demolition</b>	█													

# Your Safety is Important to Us

## Safety Bulletin

### Restricted Access Areas

All Boeing employees, contract personnel, service providers and visitors are prohibited from entering Restricted Access Areas without prior approval.

To ensure the safety of Boeing employees and non-employees at SSFL, certain inactive areas are designated as Restricted Access Areas with signs as shown to the right. A new site procedure has been established to minimize the risk of injury in these areas. Personnel may not enter Restricted Access Areas without approval from site Health & Safety (H&S) or specifically designated personnel. The access permit will allow important safety and environmental issues in restricted access work areas to be reviewed with those requiring access. This process does not override emergency response procedures. Entry under the Project Impact Evaluation or Demolition processes will be managed by the designated Contract Coordinator or Project Engineer.



Some of the hazards to be reviewed include:

#### Physical

- Overhead hazards, fall hazards from inadequately guarded elevated work areas, confined spaces, trip and fall hazards such as from bolt stubs sticking out of the concrete, uneven surfaces, etc.

#### Chemical

- The presence of hazardous materials

#### Utilities

- Energized electrical systems and pressurized gas systems

#### Emergency Service Equipment

- Out of service safety showers and eye washes, emergency phones

#### Nature Hazards

- Presence of rattlesnakes, mountain lions, rodents, birds, poison oak, ticks, etc.

Certain personnel and functions, such as Site Services, Remediation, and Security and Fire Protection, will be assigned long-term permits to facilitate the performance of their responsibilities. All personnel must comply with the posted signs. Advise H&S of any areas that appear to be inactive but lack proper signs.

Contact H&S for any questions concerning this bulletin.

- Certain areas of Santa Susana are posted as Restricted Access Areas
  - inactive areas
  - unoccupied and un-maintained facilities
  - presence of hazardous materials (e.g. lead paint and asbestos)
- In general, many areas also contain
  - physical hazards (e.g. trip & fall hazards)
  - natural hazards (e.g. poison oak, snakes)
- Please be aware of your surroundings -- Watch your step at all times
- Wear sturdy shoes
- On warm days, wear hats, sun screen and drink plenty of water
- When leaving the bus/vehicle
  - *stay with the group*
  - *do not wander off alone*
  - *obey your escort or tour guide*



# Santa Susana Field Laboratory Bus Tour

