DTSC Update
Santa Susana Field Laboratory

Presented
Aerospace Cancer Museum of Education
June 25, 2008

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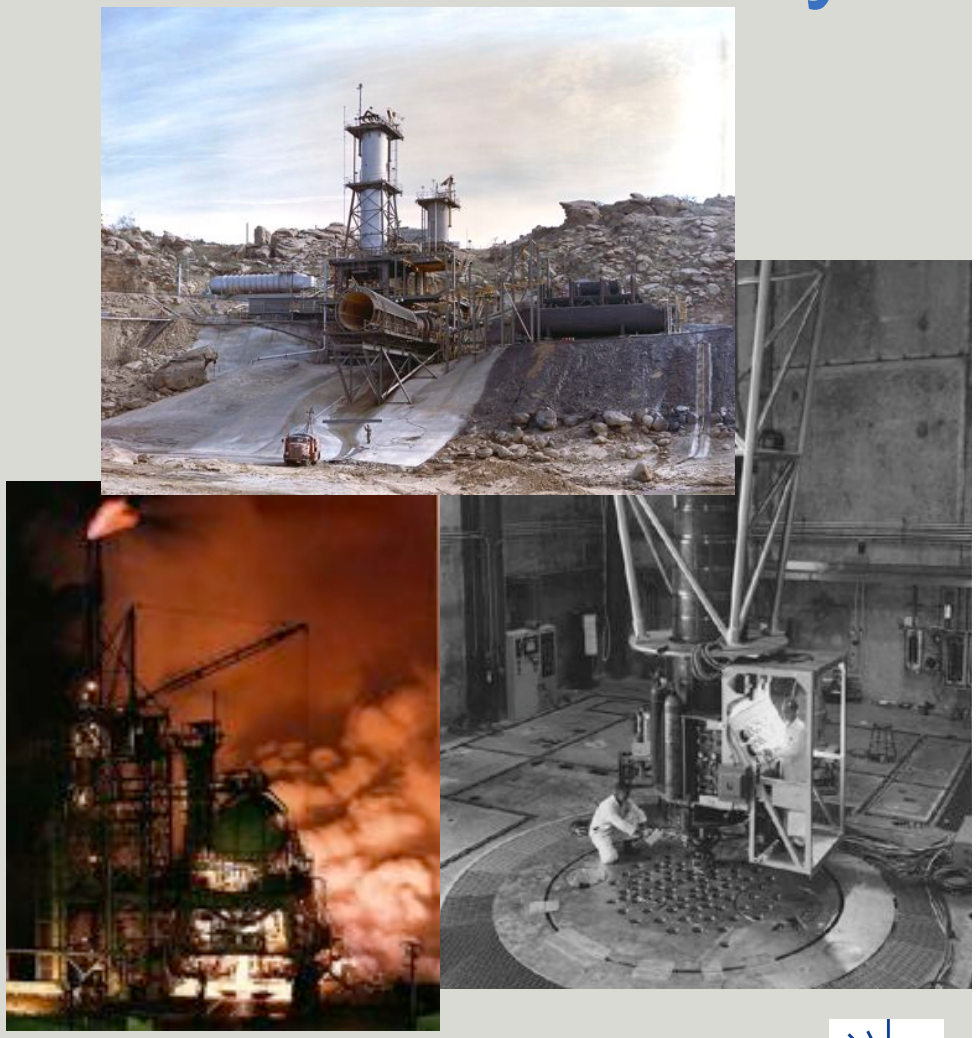
The Santa Susana Field Laboratory

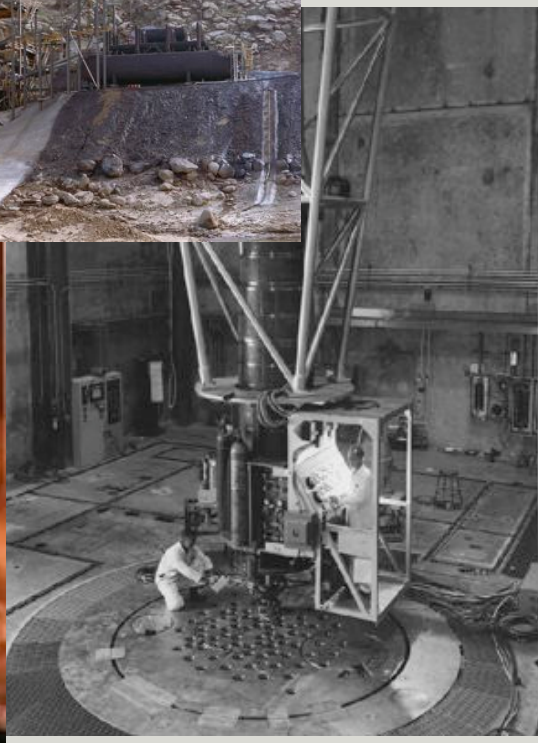
- 2,850 acres
- Site was established in the late 1940's
- Rocket testing/ development
- Nuclear research



DEPARTMENT OF TOXIC SUBSTANCES CONTROL

The Santa Susana Field Laboratory

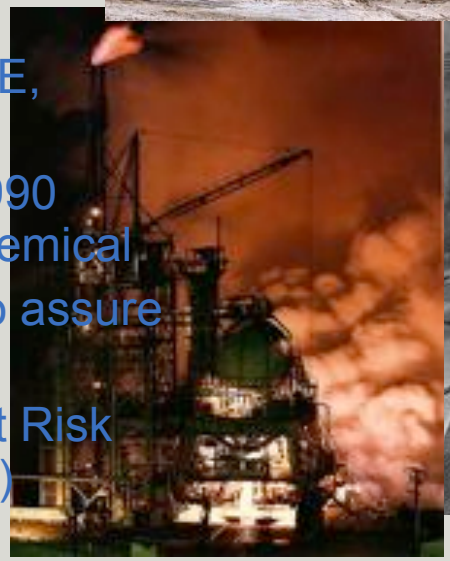
- DTSC's Regulatory Role
  - DTSC is Lead Agency for cleanup of chemical contamination at SSFL
  - SB990 passed into law October 2007
  - Gives DTSC authority over radiological and chemical cleanup
- Other Agencies
  - State and Local (RWQCB, DPH, Ventura County, LA County)
  - Federal (EPA and DOE)

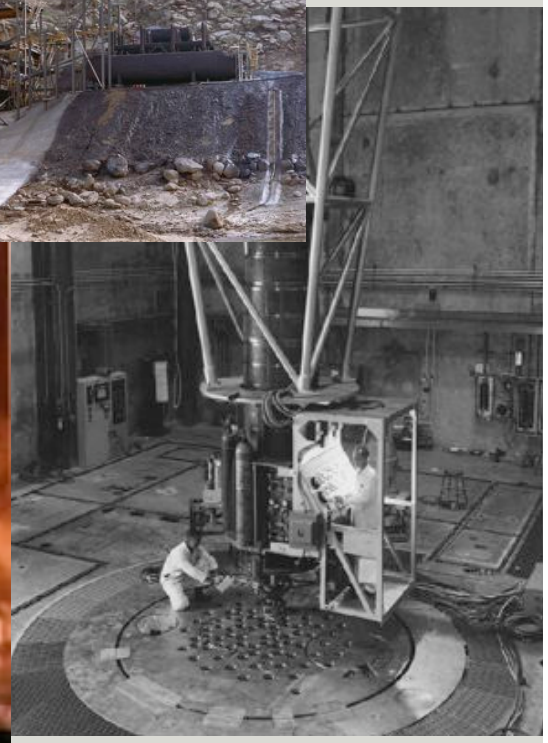


DEPARTMENT OF TOXIC SUBSTANCES CONTROL

The Santa Susana Field Laboratory

- **CURRENT WORK**
  - Defining extent of contamination (chemical)
  - Develop a chemical and radiological background data set (EPA and DTSC)
  - Interim cleanup action (north drainage, groundwater)
  - Issuance of Order to Boeing, DOE, NASA.
  - Order will require cleanup to SB990 standards for radiological and chemical
  - Risk Assessment Methodology to assure cleanup to SB 990
  - Develop of new SB990 compliant Risk Based Screening Levels (RBSLs)





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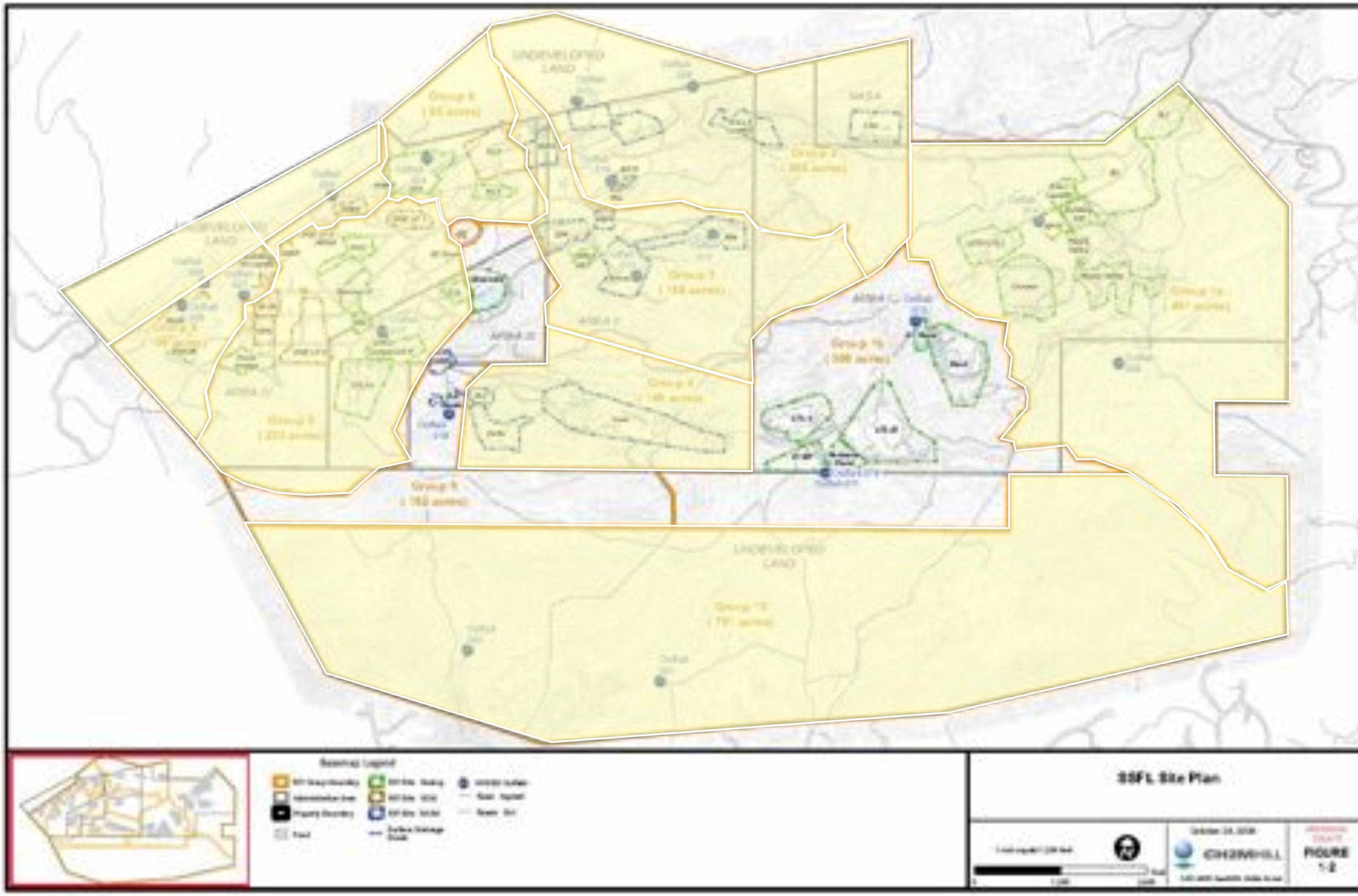
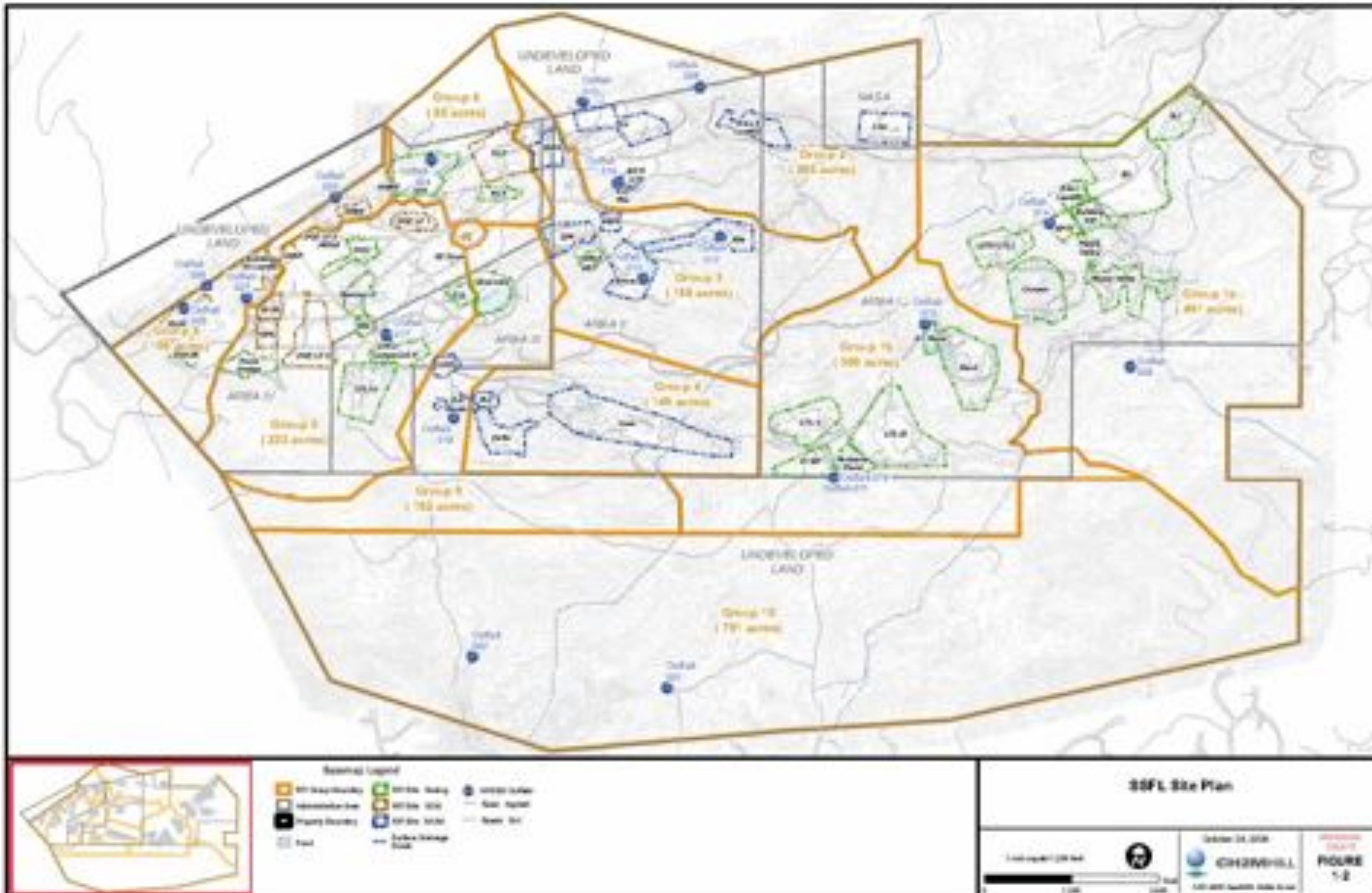
Simi Valley
118
Chatsworth
American Jewish University / BBC
Black Canyon
Woolsey Canyon
Sage Ranch
Runkle Canyon
AREA II (NASA)
AREA I
UNDEVELOPED LAND
Dayton Canyon
Canoga Park
SSFL SITE BOUNDARY
Bell Canyon
Los Angeles County
Ahmanson Ranch
West Hills
San Fernando Valley
Ventura County
Oak Park
101
Agoura Hills
Hidden Hills


UNDEVELOPED LAND
NASA
Basemap Legend
SSFL Site Plan
CH2MHILL
FIGURE 1-2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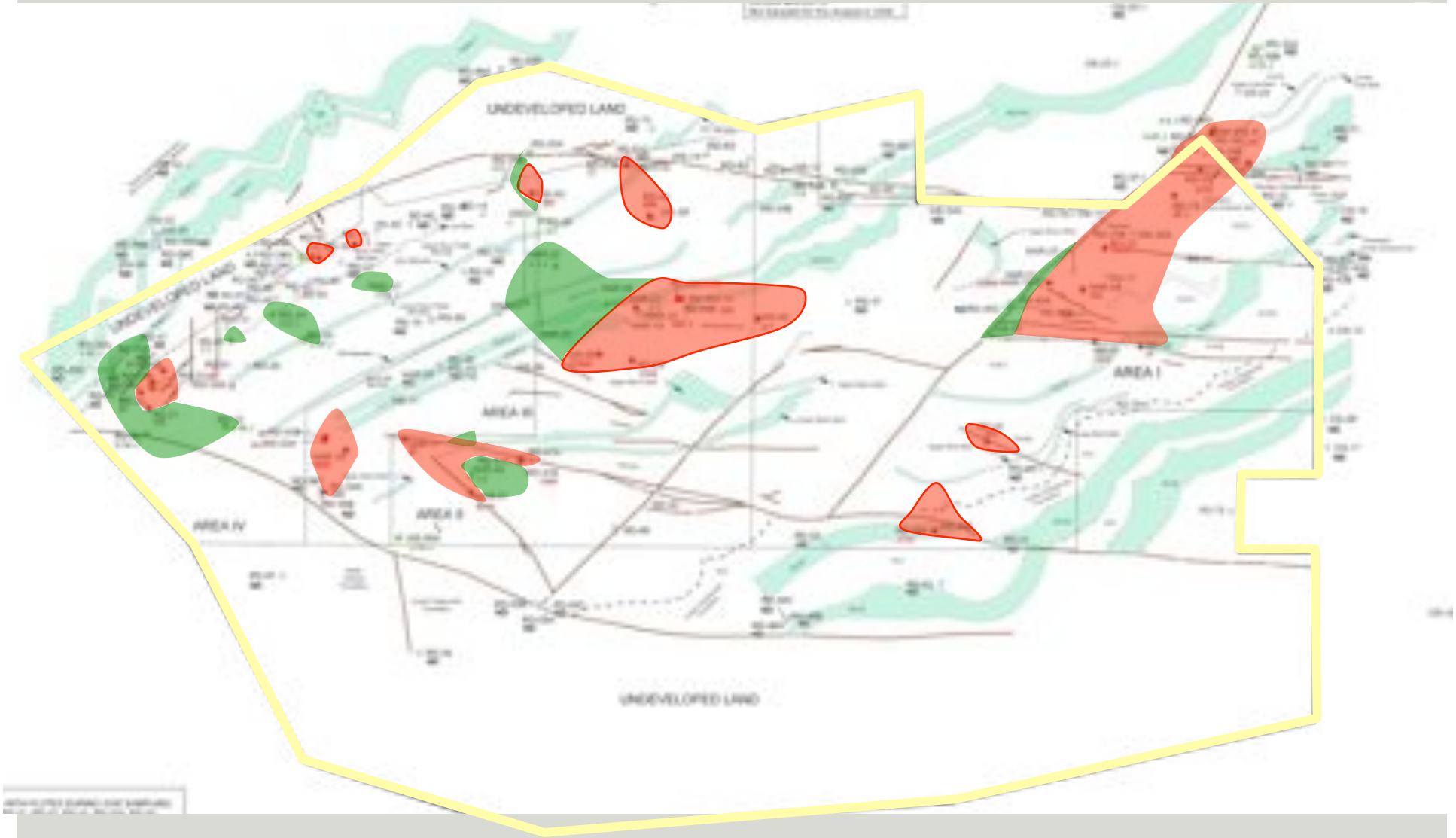
NASA
SSFL Site Plan
CH2MHILL
FIGURE 1-2



PLEASE NOTE: The areas with wells containing detected concentrations and/or concentration over a regulatory threshold are shaded with a corresponding color for better visual presentation. The shaded areas should not be considered interpretations on the distribution and extent of these contaminants in the groundwater

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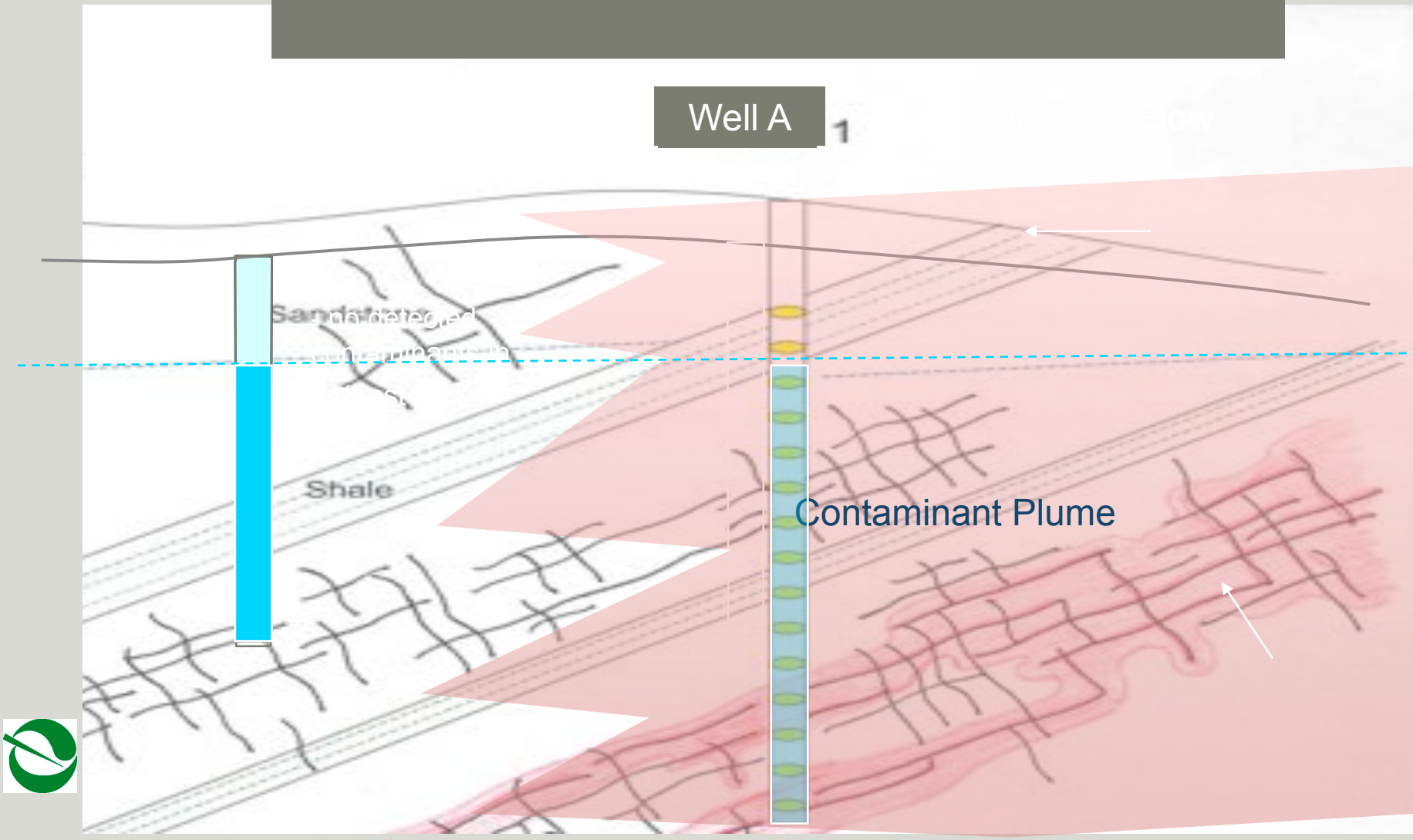
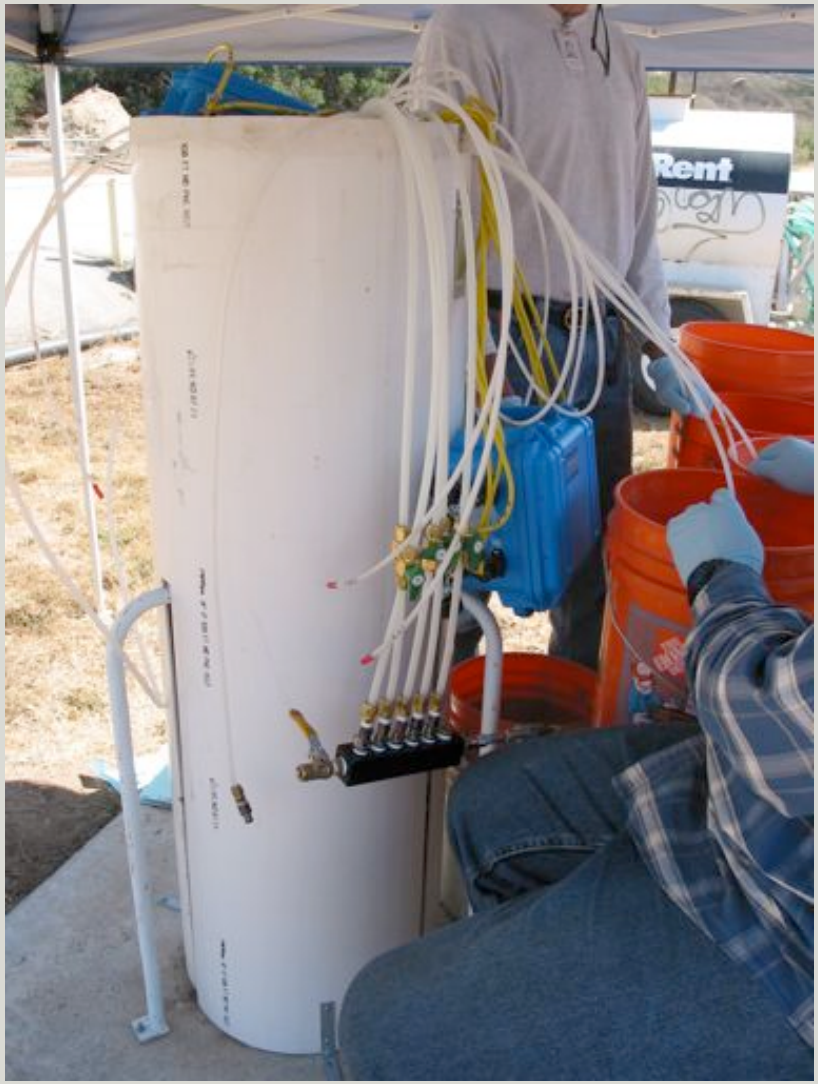
Simple Interpretation:

Plume - homogeneous and defined from wells





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- Coreholes provide details about the rock types and the nature of the fractures

- 100s of samples are collected from each core and analyzed for volatile organic compounds providing detailed profiles of the chemicals in the rock.

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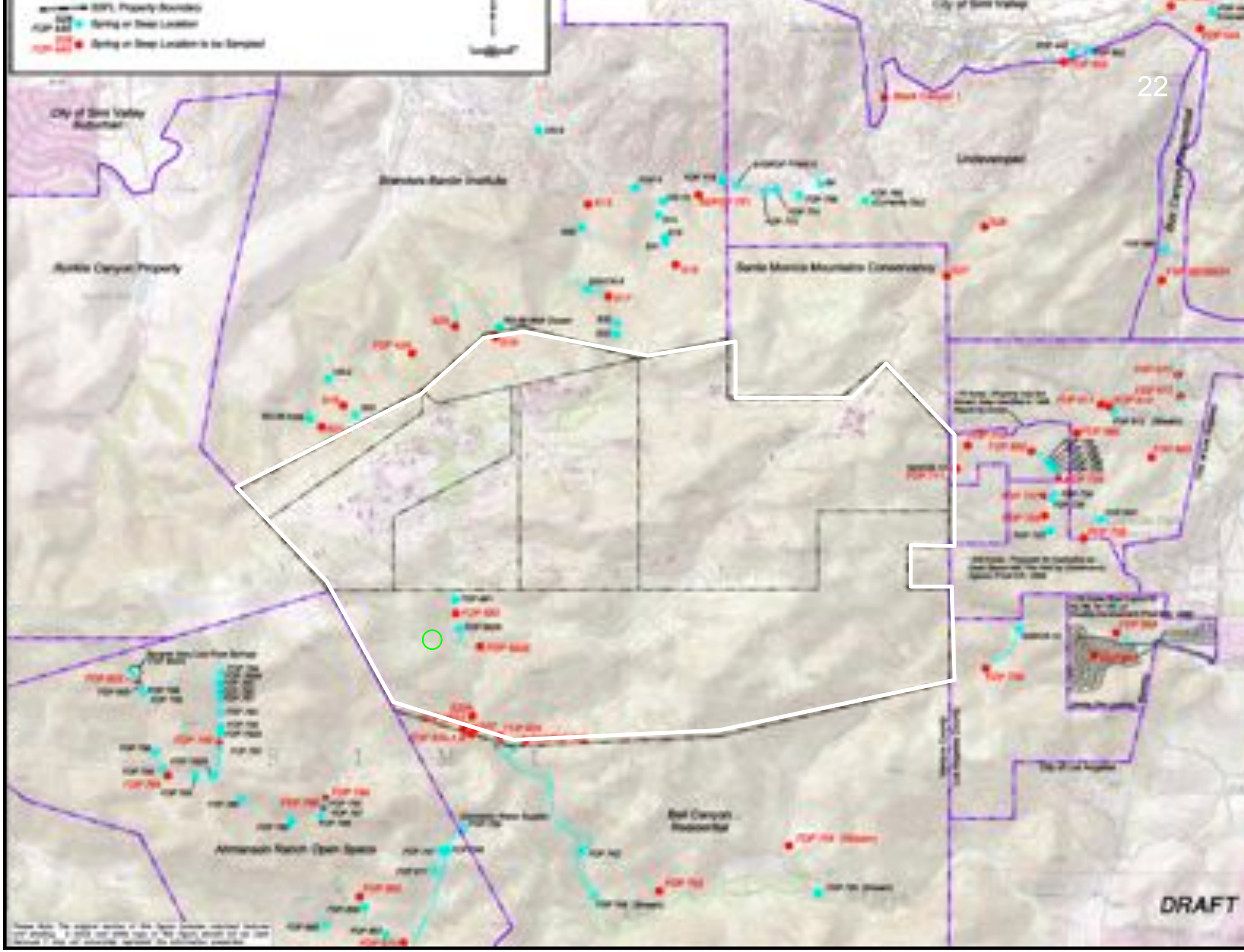
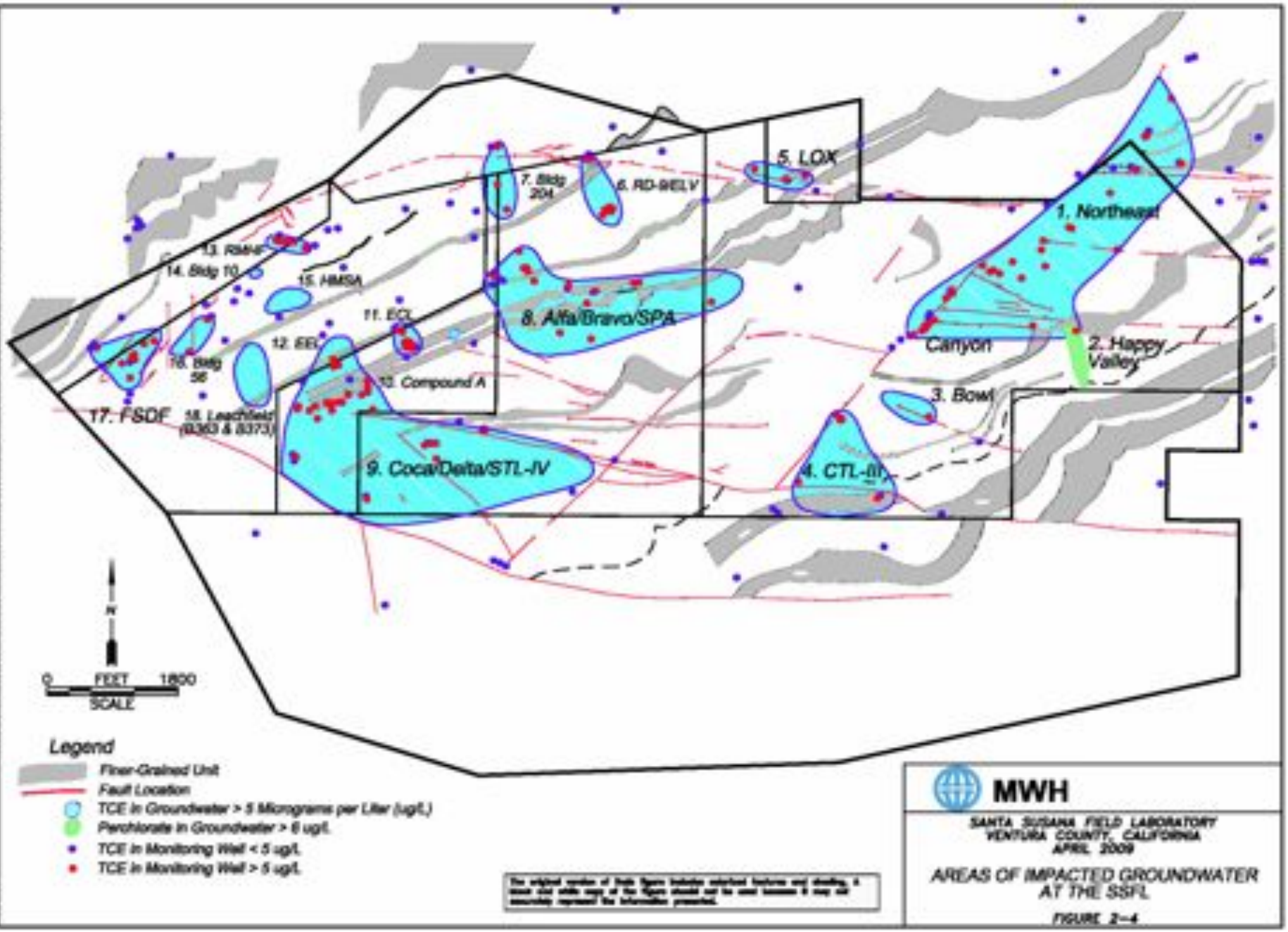

Santa Monica Mountains Conservancy
Runkle Canyon Property
Ahmanson Ranch Open Space
Bell Canyon
DRAFT


5. LOX
7. Bldg 204
6. RD-9/ELV
1. Northeast
13. RMHF
14. Bldg 10
15. HMSA
11. EOL
8. Alfa/Bravo/SPA
Canyon
2. Happy Valley
12. EEL
16. Bldg 56
10. Compound A
3. Bowl
17. FSDF
18. Leachfield (8363 & 8373)
9. Coca/Delta/STL-IV
4. CTL-III
N
0
FEET
1800
SCALE
Legend
Finer-Grained Unit
Fault Location
TCE in Groundwater > 5 Micrograms per Liter (ug/L)
Perchlorate in Groundwater > 6 ug/L
TCE in Monitoring Well < 5 ug/L
TCE in Monitoring Well > 5 ug/L
MWH
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA
APRIL 2009
AREAS OF IMPACTED GROUNDWATER AT THE SSFL
FIGURE 2-4

CLOSING

QUESTIONS?

SSFL Web Site www.dtsc-ssfl.com

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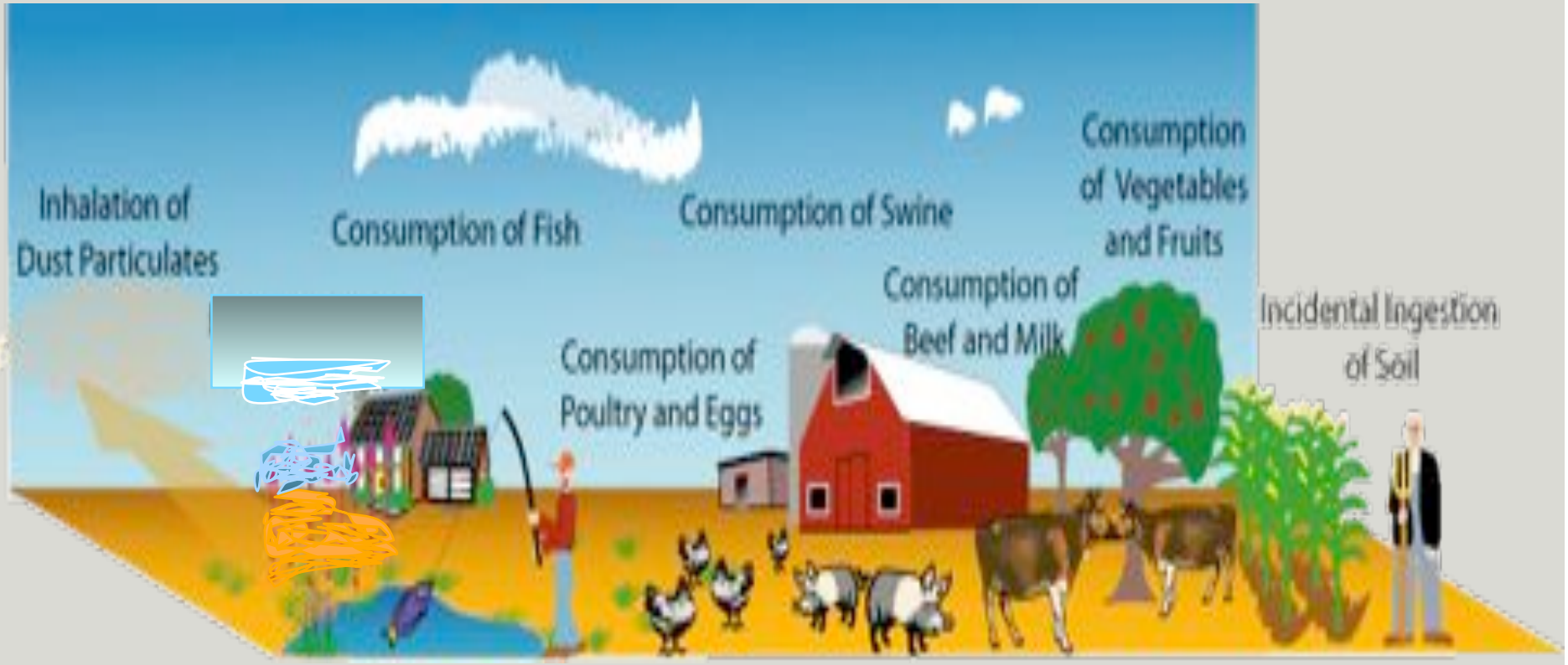
SB990 Conceptual Site Model



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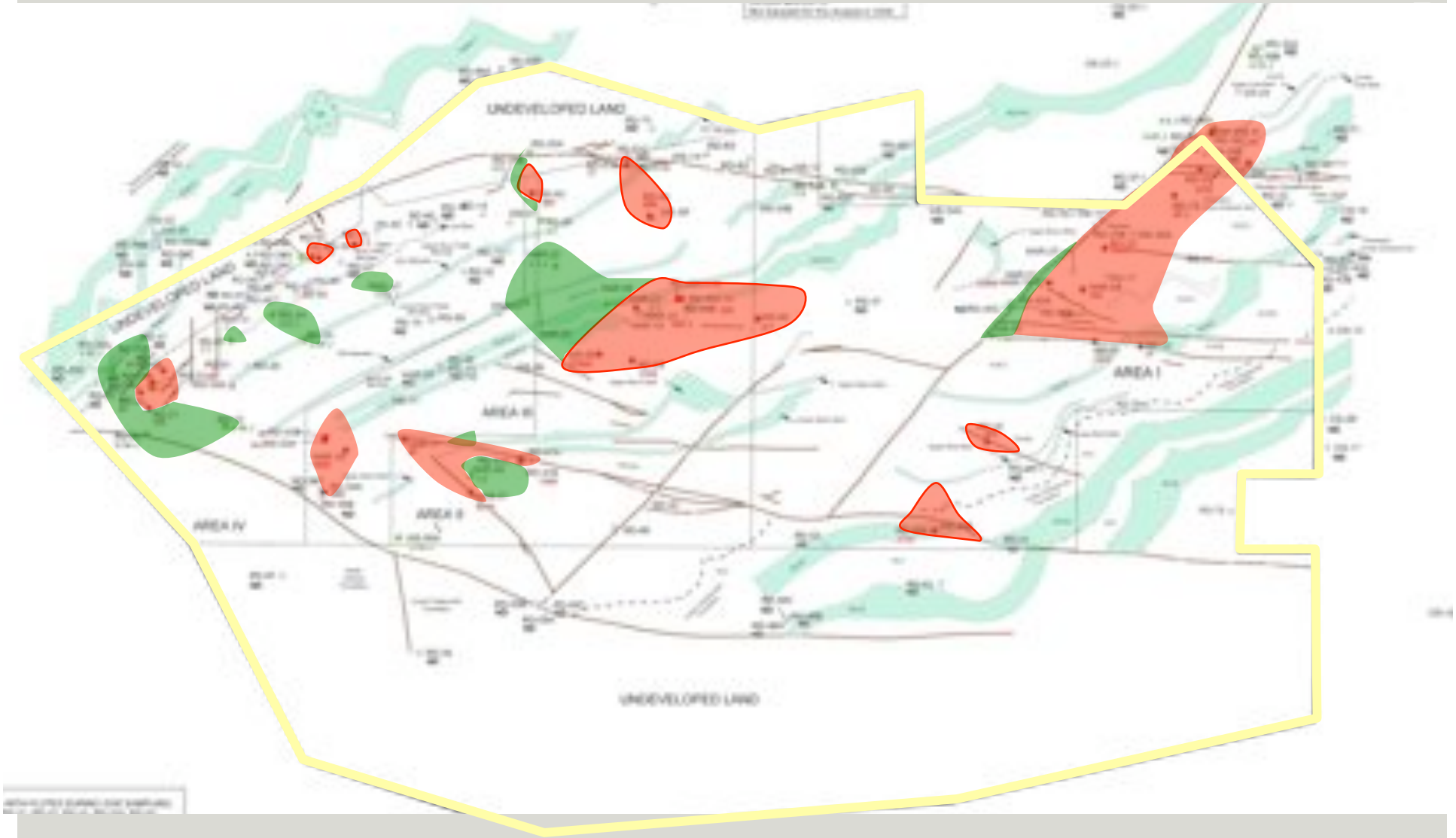

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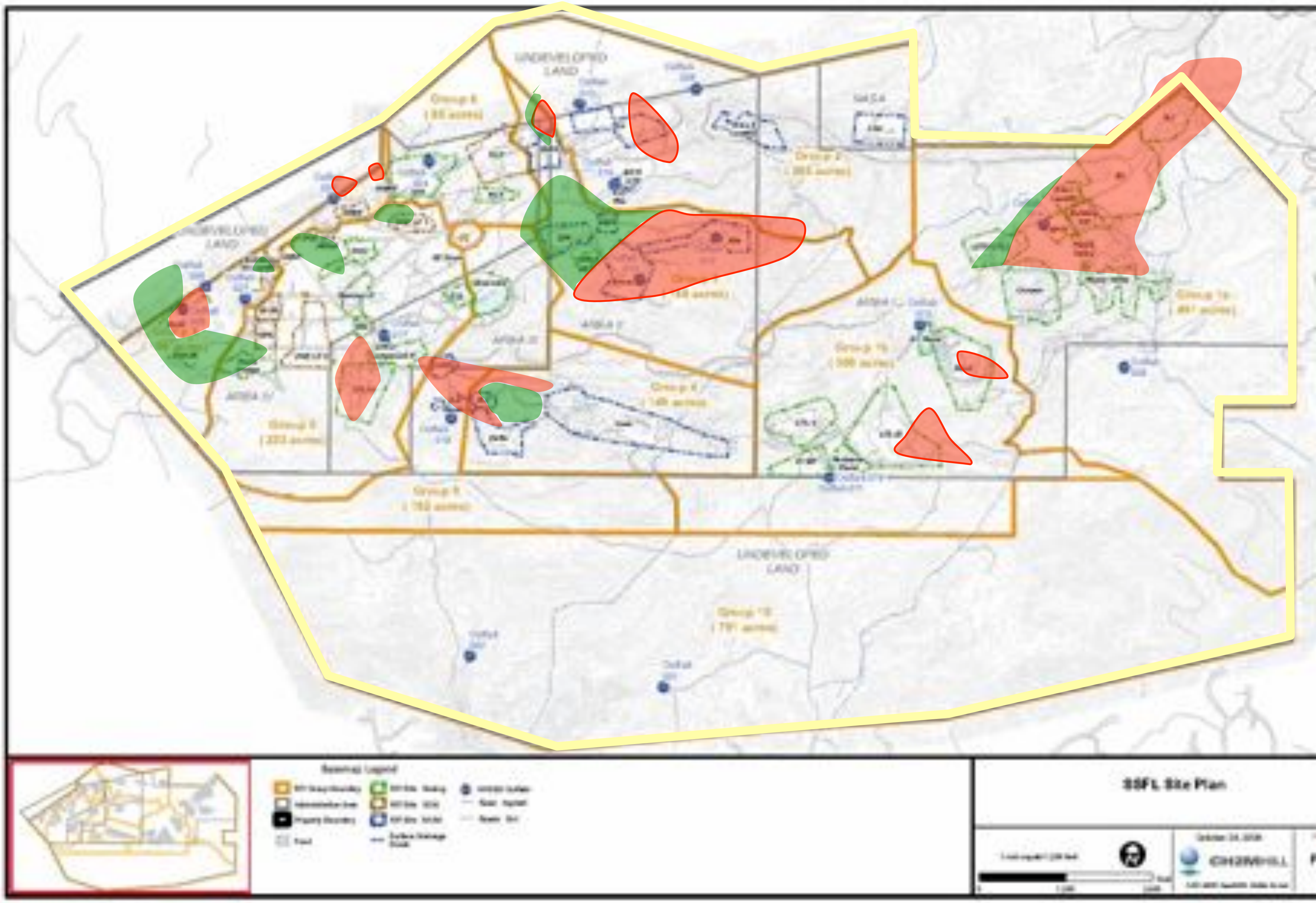
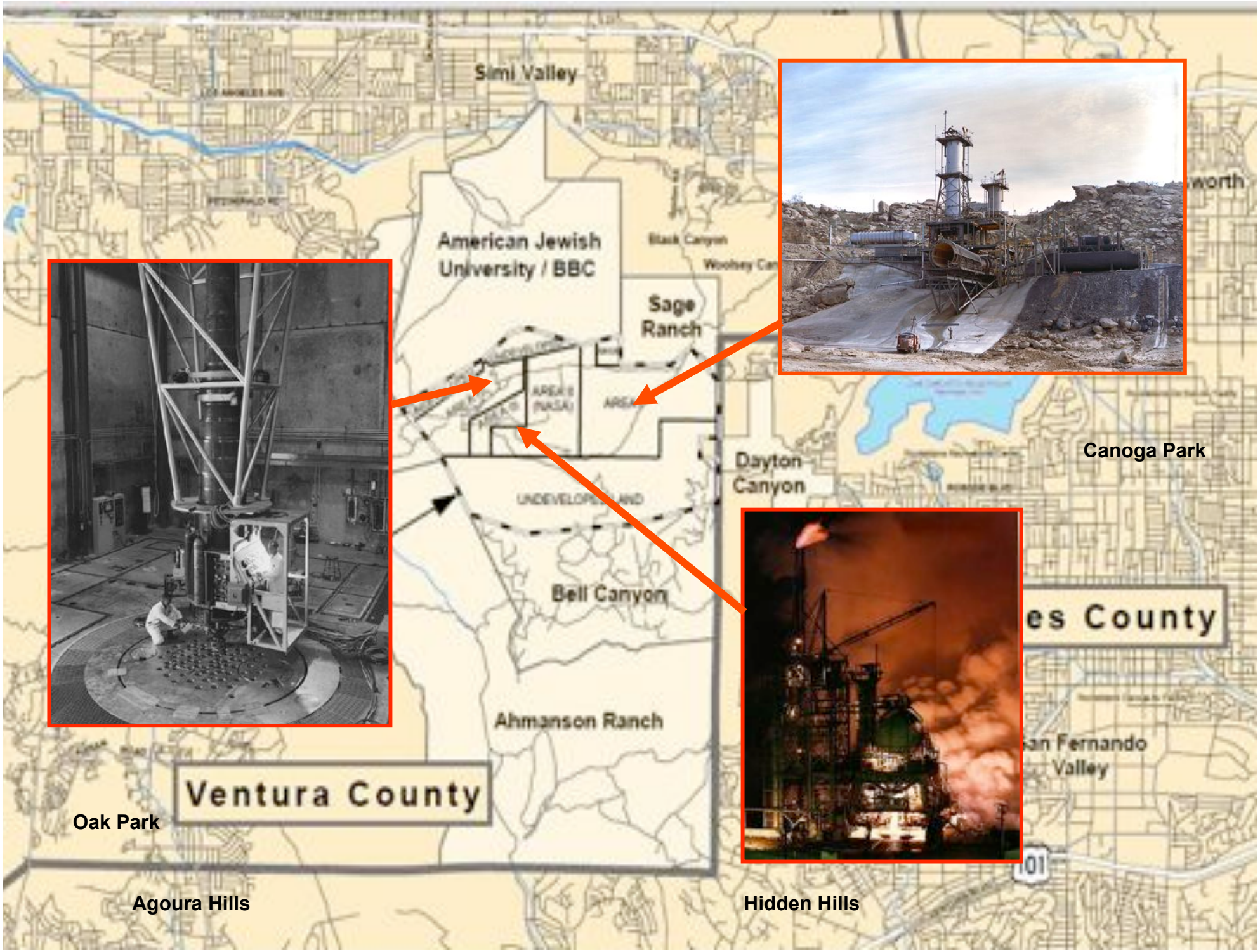

UNDEVELOPED LAND
NASA
UNDEVELOPED LAND
SSFL Site Plan
CH2MHILL


Simi Valley
American Jewish University / BBC
Sage Ranch
Dayton Canyon
Canoga Park
Bell Canyon
Ahmanson Ranch
Ventura County
Oak Park
Agoura Hills
Hidden Hills
es County
San Fernando Valley
101

Date Sampled	Spring/Seep	8260B	Perchlorate
8/21/2006	FDP-170		ND
8/21/2006	FDP-781		ND
8/22/2006	S-16	ND	ND
8/22/2006	S-17	ND	ND
8/22/2006	S-18	ND	ND
8/22/2006	S-29	ND	ND
8/22/2006	FDP-455		ND
8/22/2006	FDP-494		ND
8/23/2006	FDP-924	ND	
8/23/2006	S-27	ND	
8/23/2006	FDP-207	ND	
8/24/2006	FDP-860	ND	ND
8/24/2006	FDP-858	ND	ND
8/24/2006	FDP-875A	ND	ND
8/24/2006	FDP-753	ND	ND
8/28/2006	FDP-890	ND	ND
8/29/2006	FDP-893	TCE- 93 ppb; 1,1-Dichlorothene- 1.1 ppb; cis-1,2-Dichloroethene - 390 ppb; trans-1,2-Dichloroethene -17	
8/29/2006	FDP-784A	z	
8/30/2006	S22-A	ND	ND
8/30/2006	FDP-882J		ND
8/30/2006	FDP-835A	ND	ND
8/31/2006	FDP-749A	ND	ND
8/31/2006	FDP-891	ND	ND
10/2/2006	FDP-580	ND	ND
10/2/2006	FDP-581	ND	ND

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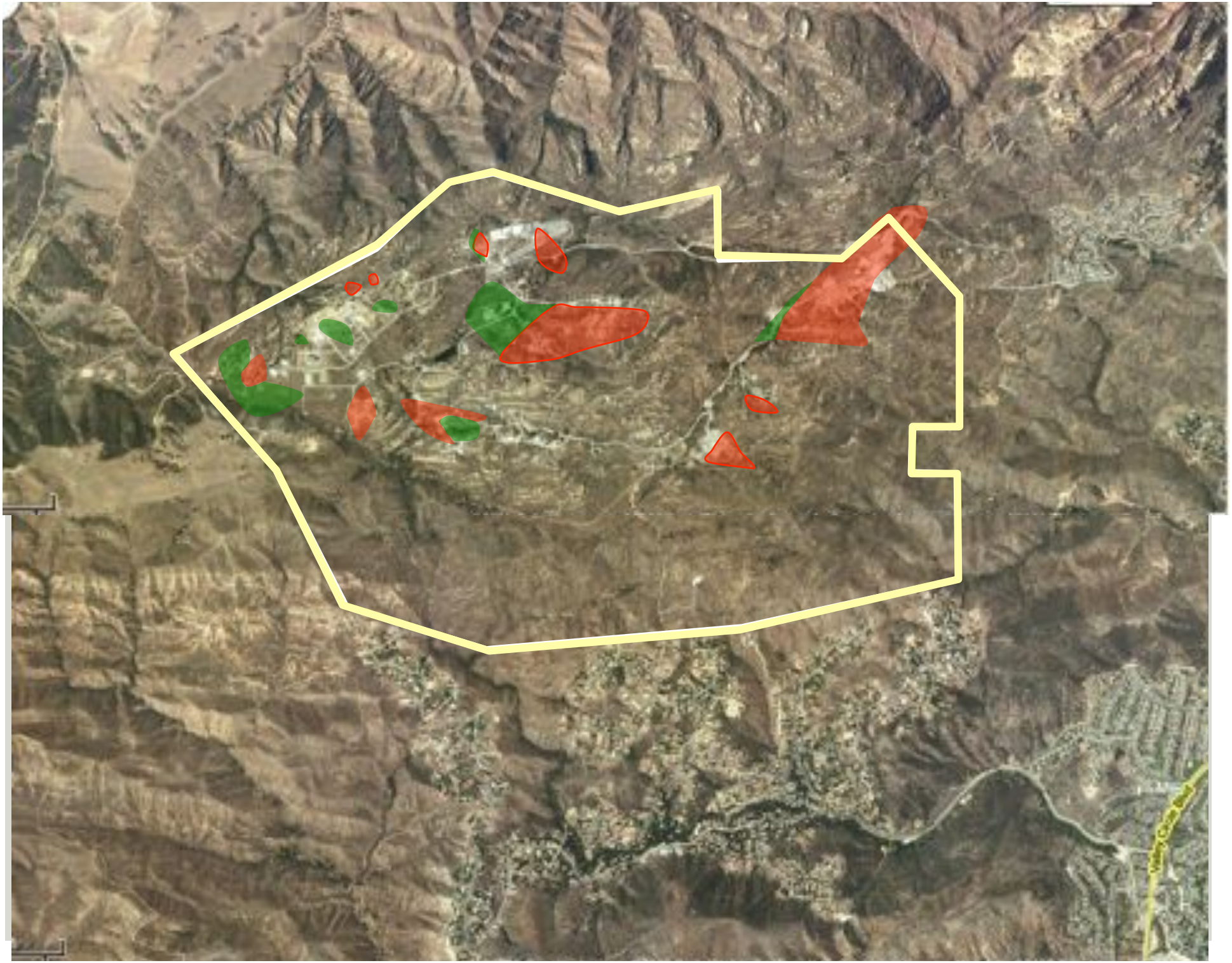
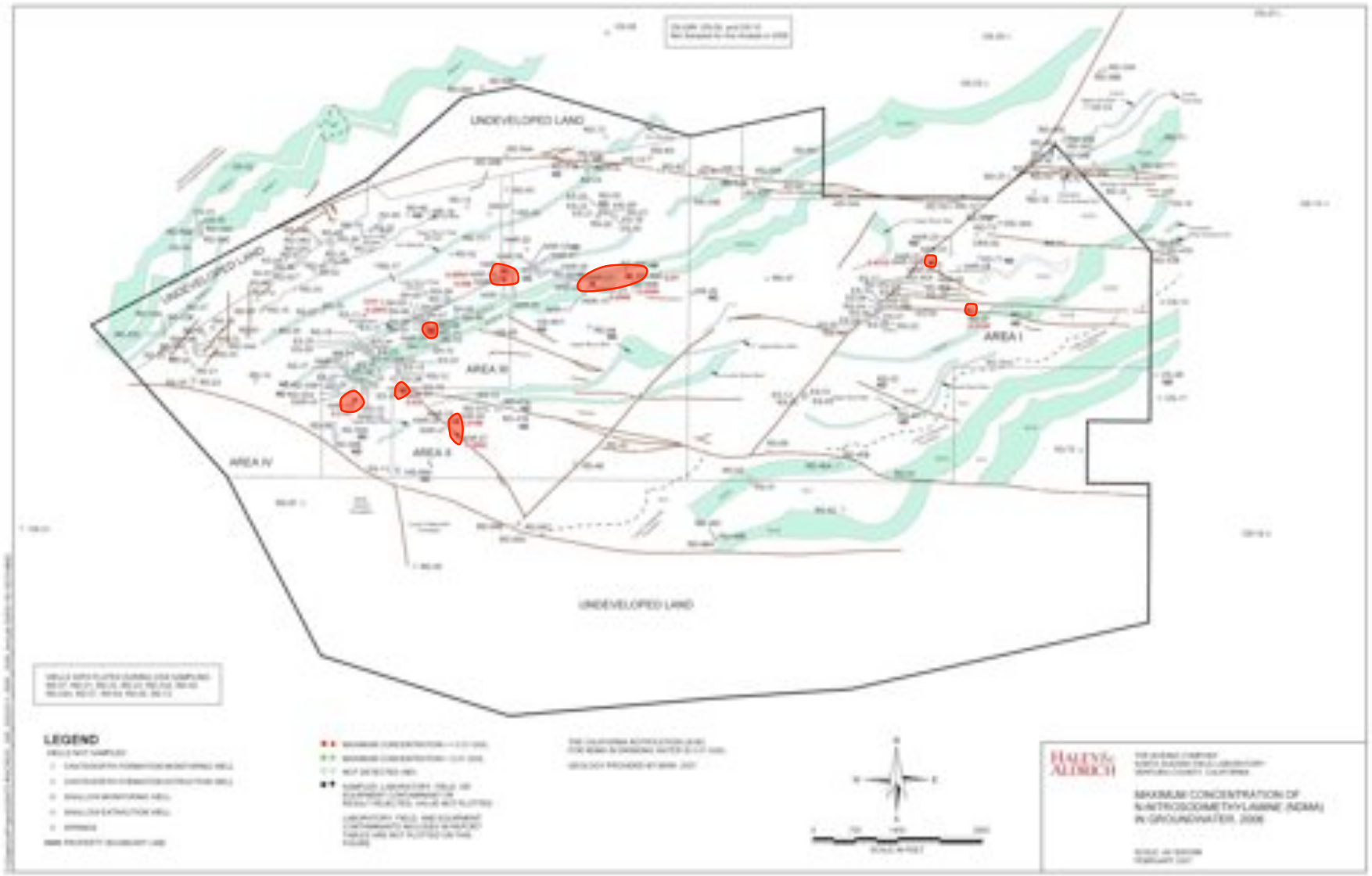



Simi Valley
Ronald Reagan Fwy
Cochran St
E Los Angeles Ave
Alamo St
118



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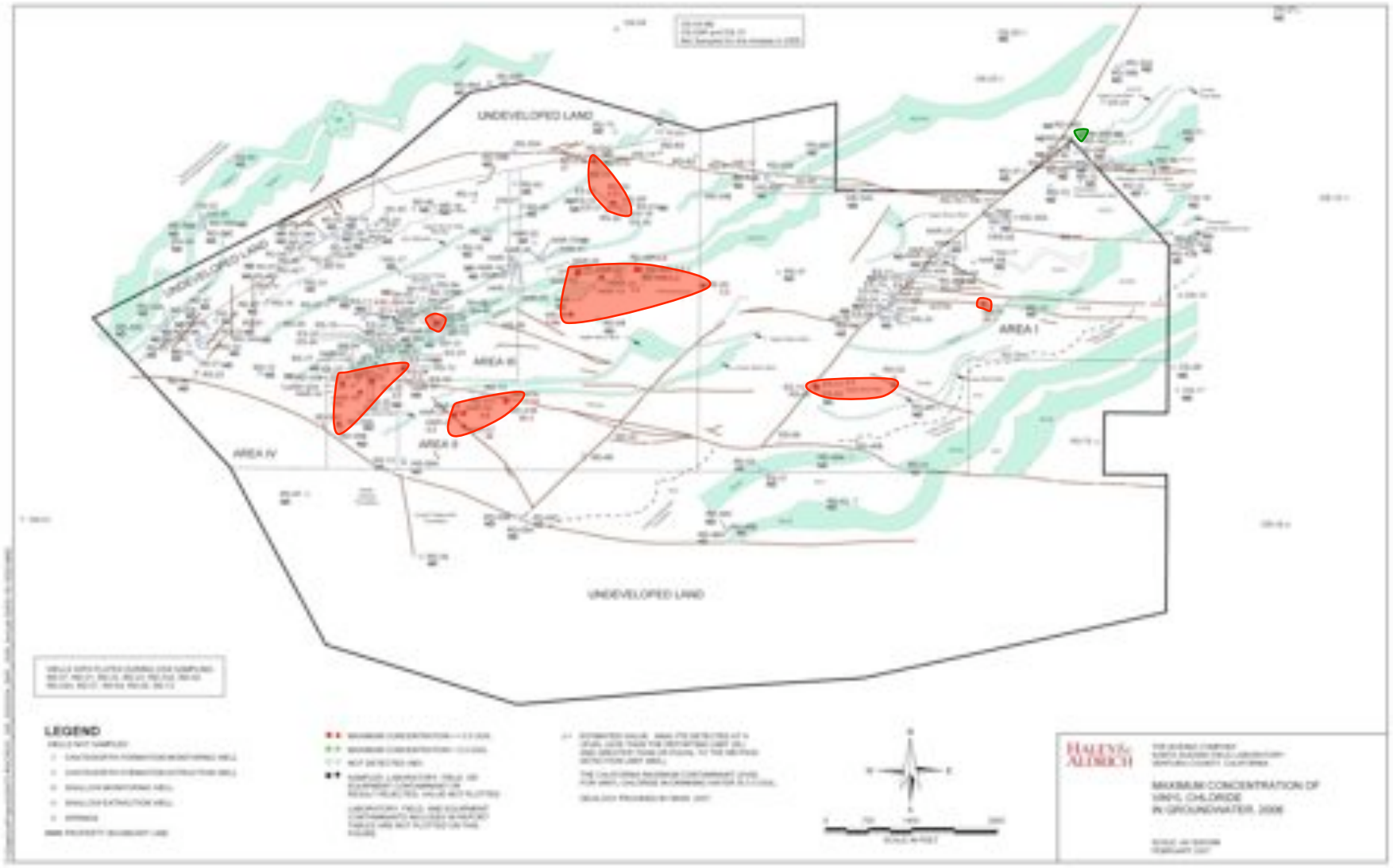

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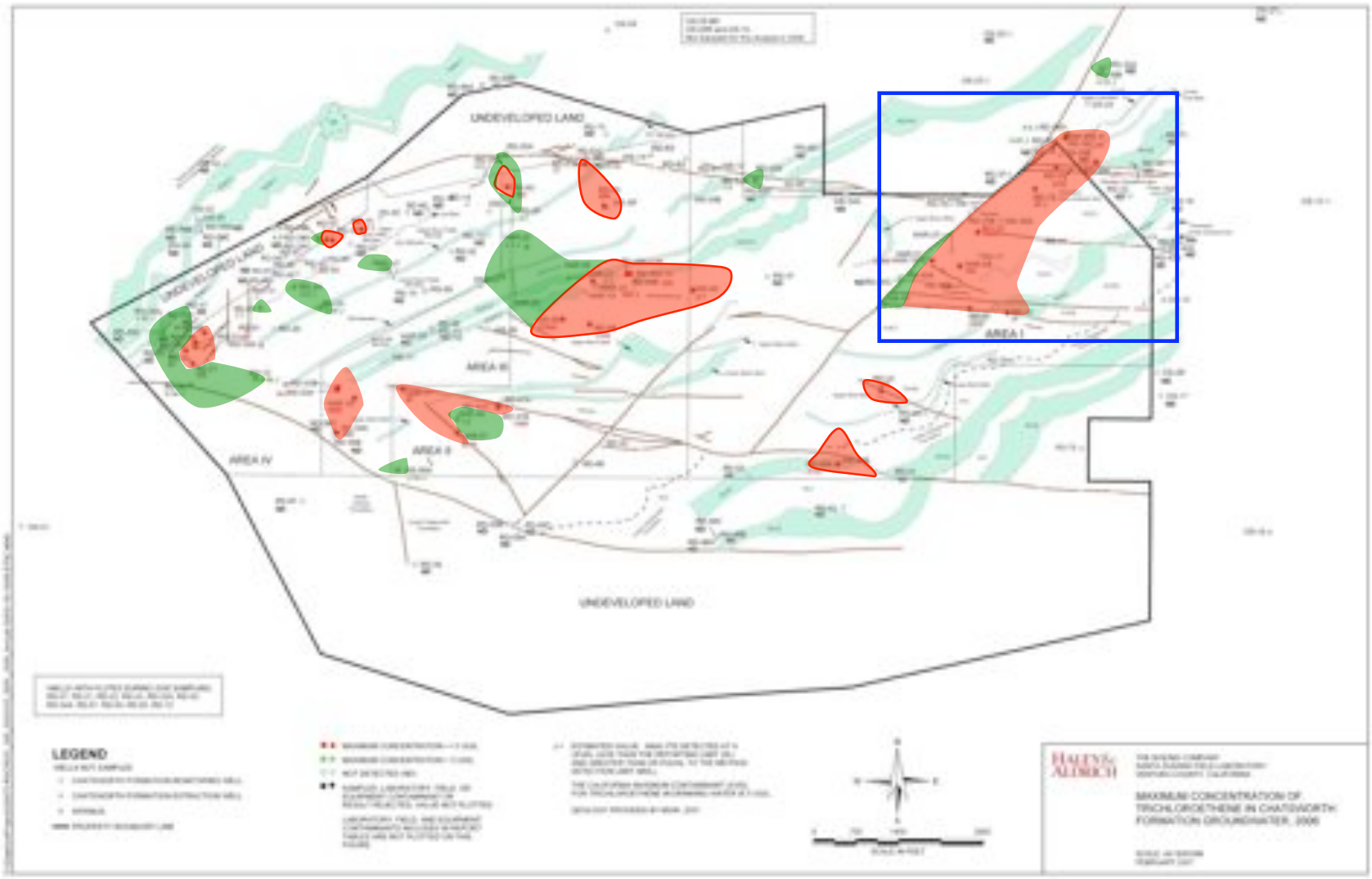

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