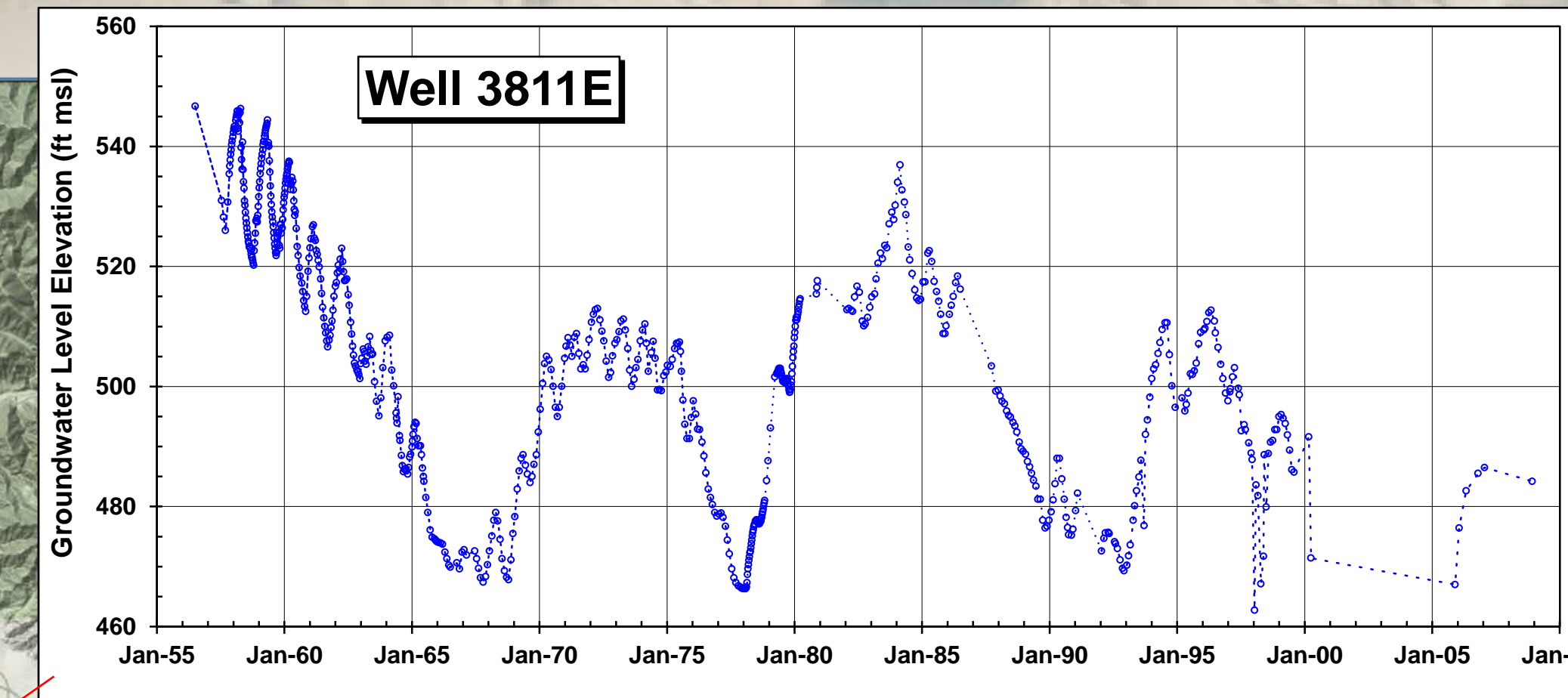
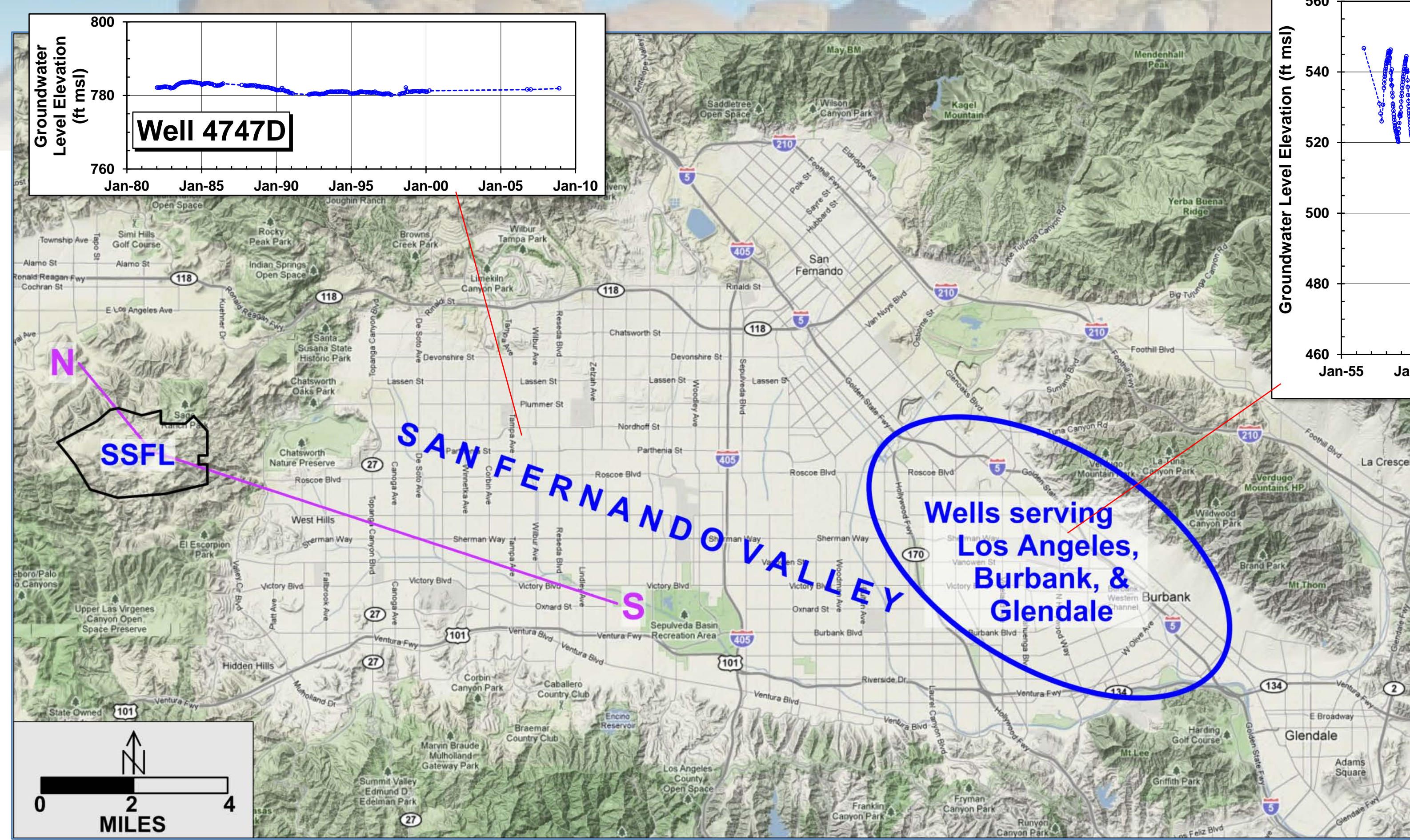
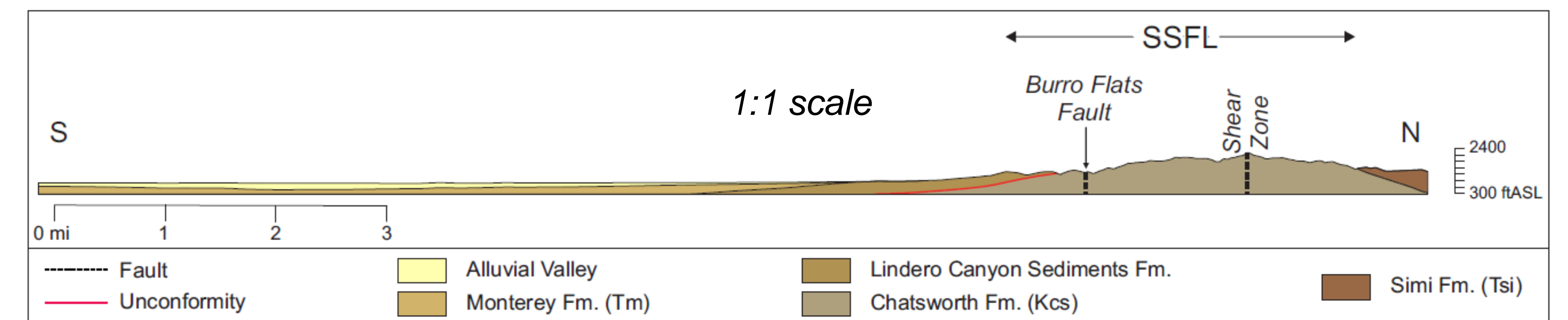
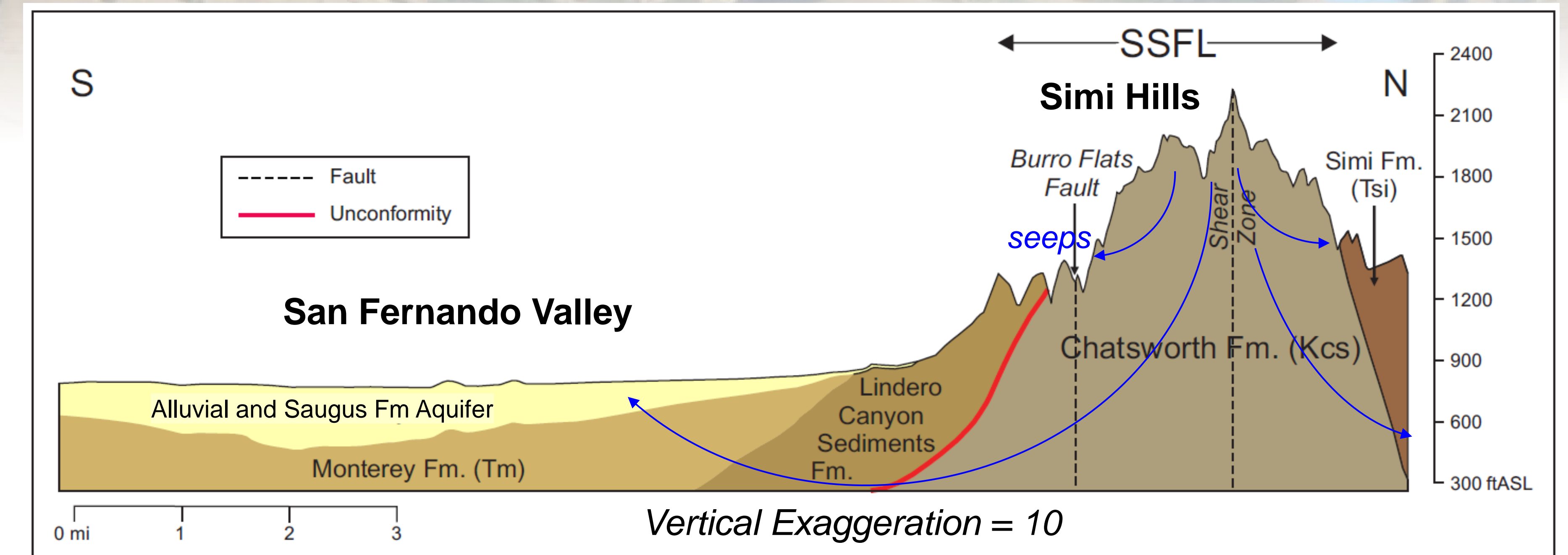


San Fernando Valley Water Supply and Groundwater Basin

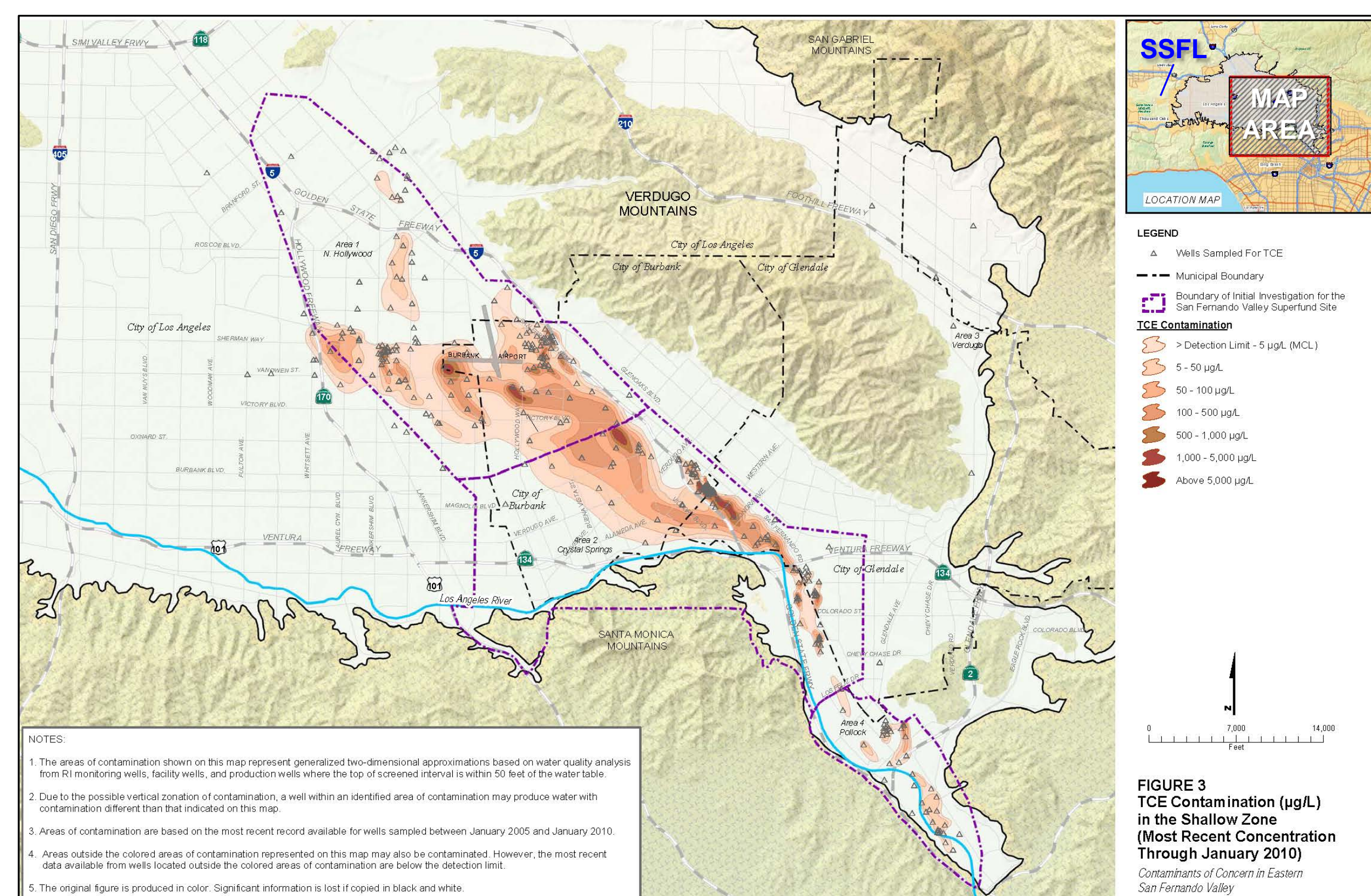
The valley-fill aquifer underlying the ~200-square-mile SFV is >1,000 feet thick toward the eastern end of the basin, where it serves as an important regional water supply, despite contamination from local industry. The aquifer beneath the western two-thirds of the basin is relatively unproductive and little used.



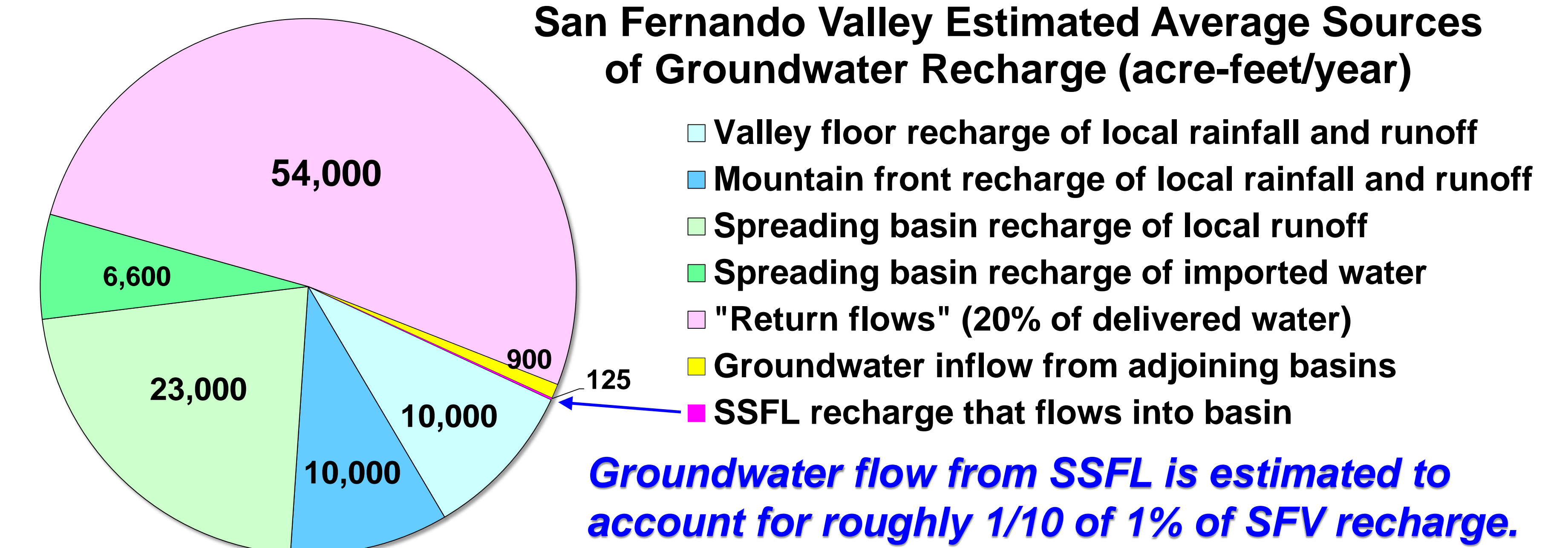
- Municipal water supply wells are limited to the eastern side of San Fernando Valley.
- Relatively flat water level hydrographs indicate minimal groundwater production across western SFV.
- The use of private wells is severely limited by the adjudication of SFV water rights.



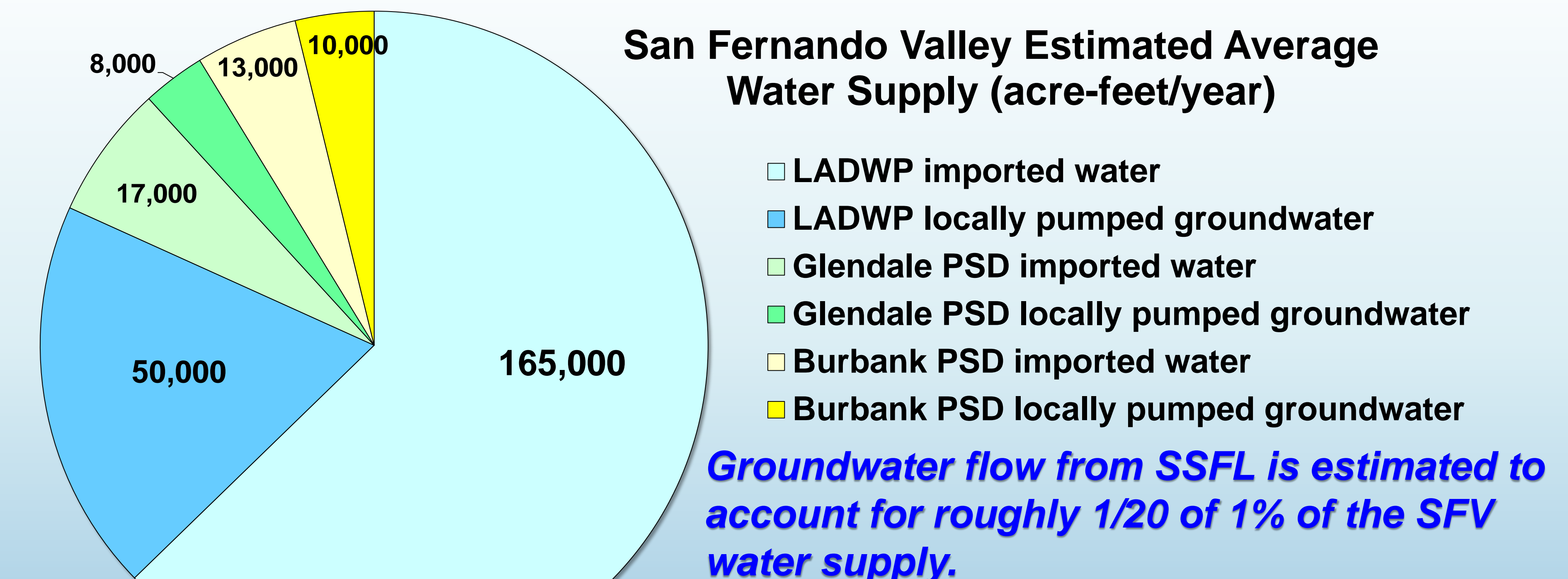
Simulations using a 3-D groundwater flow model indicate that groundwater recharged at SSFL is split roughly equally between discharge to hillside seeps and deep flow into the surrounding valleys (Appendix 6-A of the SSFL Groundwater RI Report).



Well defined plumes of groundwater contamination occur in eastern San Fernando Valley >18 miles from SSFL. Contaminant sources and responsible parties have been identified by the Los Angeles Regional Water Quality Control Board and U.S. EPA (San Fernando Valley Superfund Site Groundwater Monitoring Program 2010 Report, USEPA).

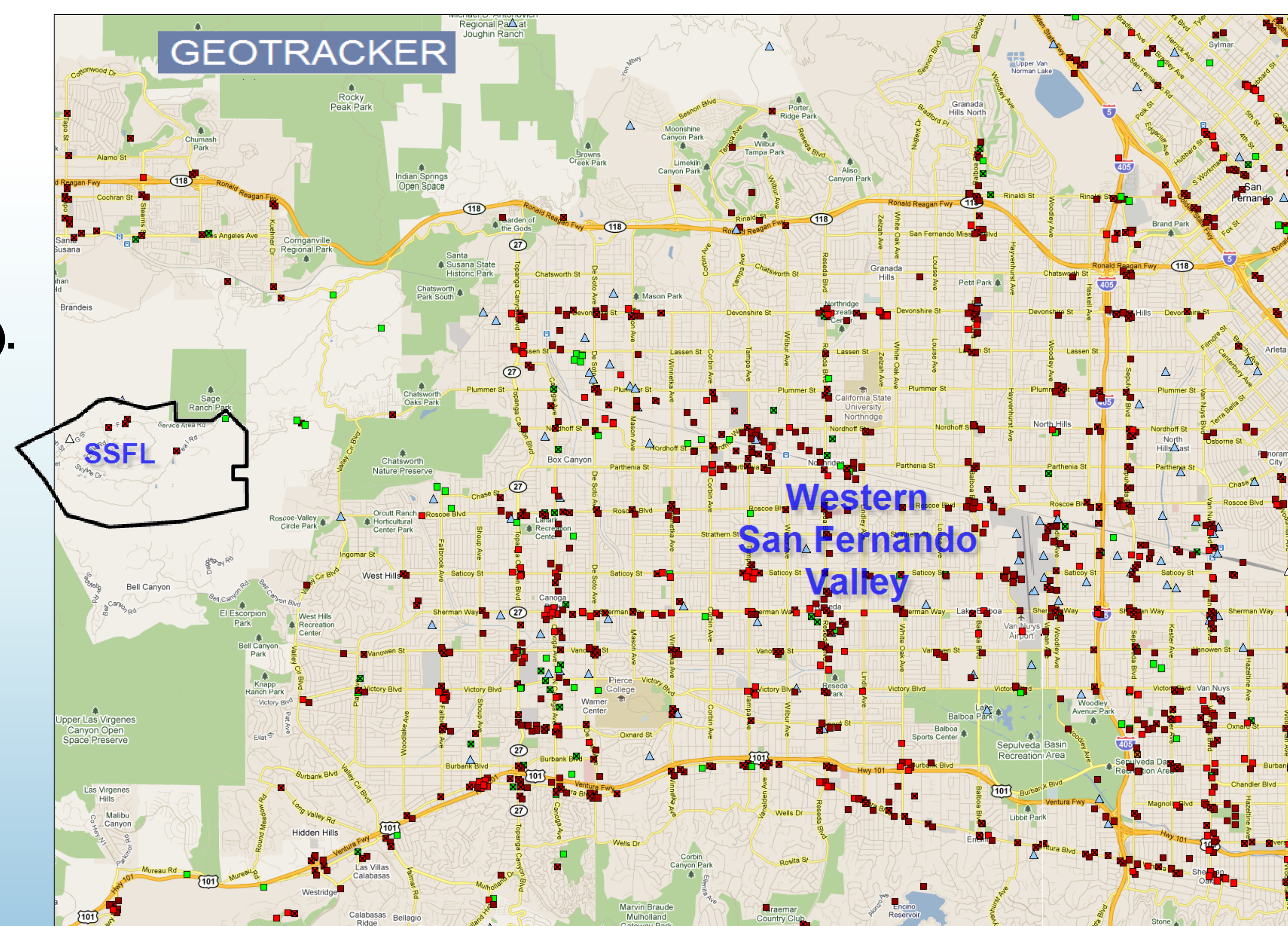
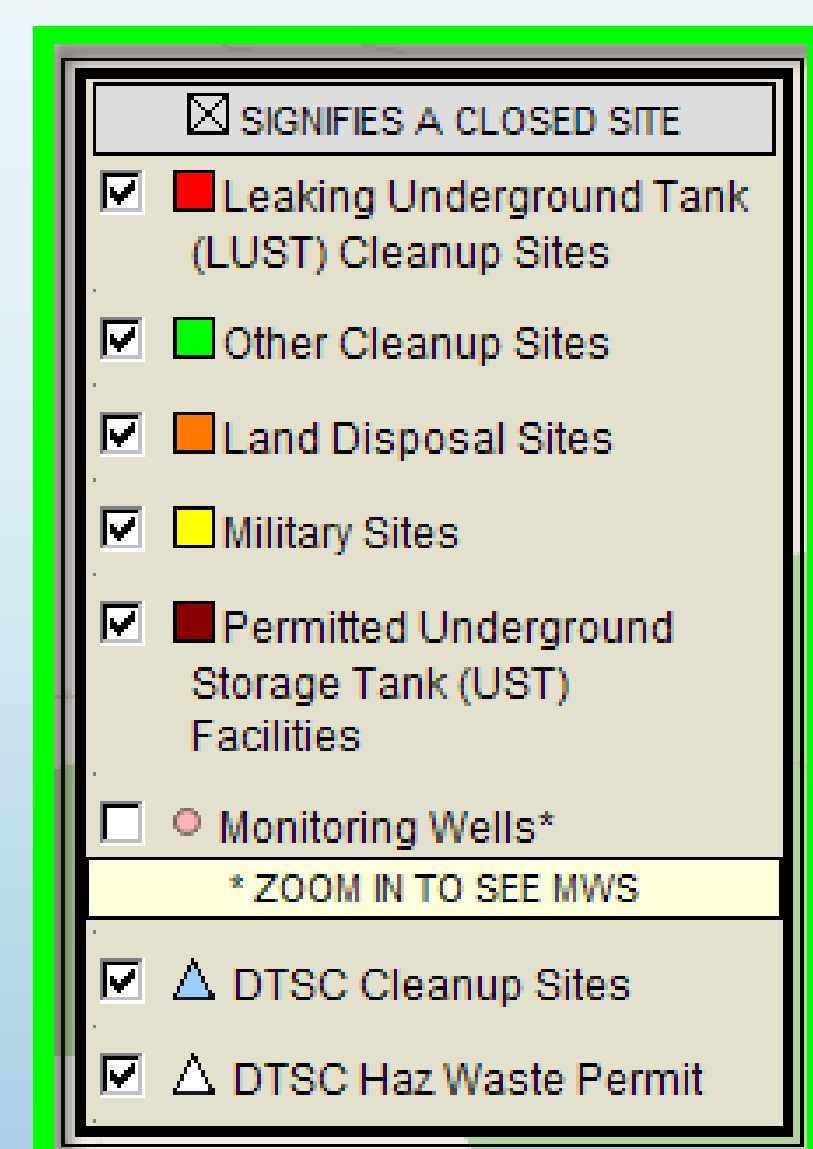


Estimates adopted from water balance presented in *San Fernando Basin Groundwater Model Documentation* (USEPA,1994).

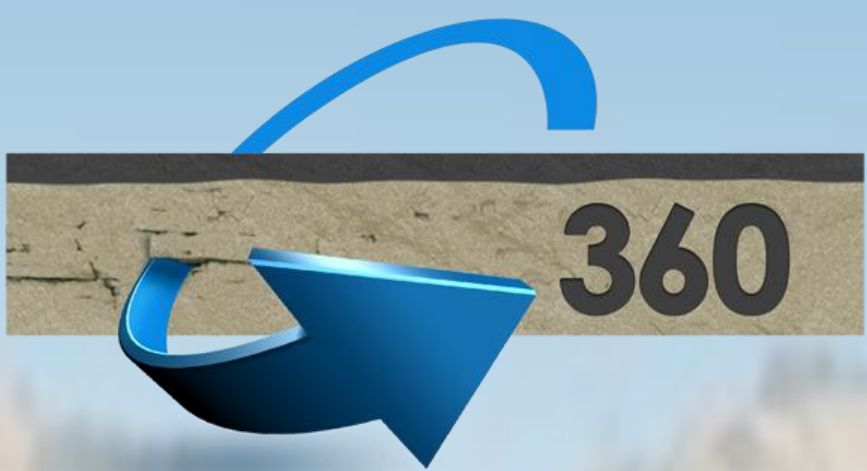


Estimates adopted from data provided in Upper Los Angeles River Area Watermaster annual reports.

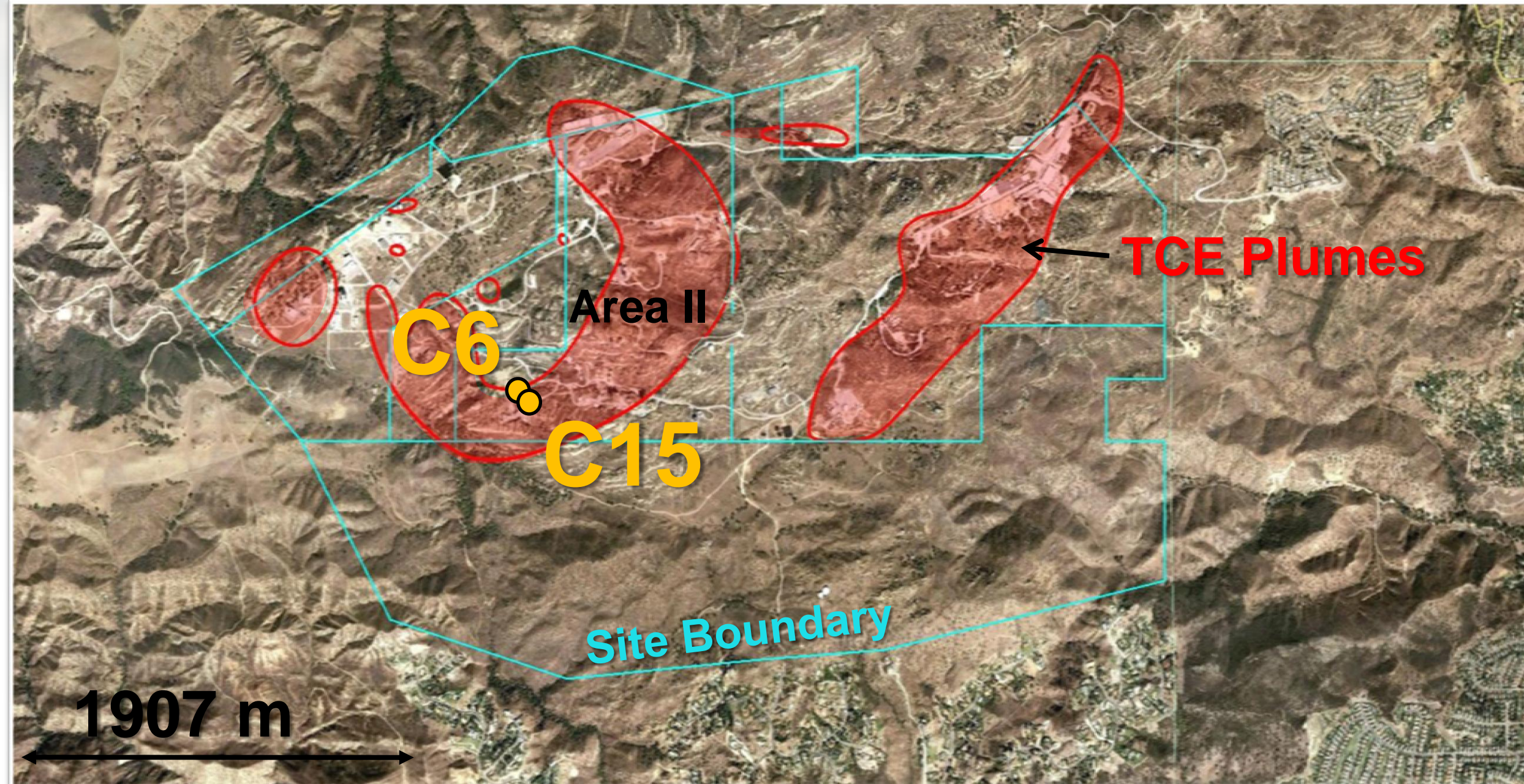
Documented sources of potential groundwater contamination occur across western San Fernando Valley (geotracker.swrcb.ca.gov).



TCE Depth Profile to 1400 Feet from Coreholes C6 and C15



Location of Coreholes



Coreholes are located 50 feet apart in Area II near Delta test stand. C6 was initially drilled 2001 and deepened in 2003, C15 was completed during a follow up study in 2009. The casing of C15 extends from ground surface to the depth at the bottom of C6 (~ 890m).

Drilling Coreholes



Field view of C6 and C15 coreholes and drill rig on site.

Core Collection and Inspection



Retrieval of core in 5 foot lengths is followed by photographing, visual inspection and recording of hydrogeologic properties including; fractures, lithology, mineralogy etc.

Sampling and Analysis

Core is sub-sampled, crushed and preserved in methanol for shipping and laboratory analysis of VOC's.



Heights of
Average
Americans:

Male: 5'10"
Female: 5'4"

