



Santa Susana Field Laboratory

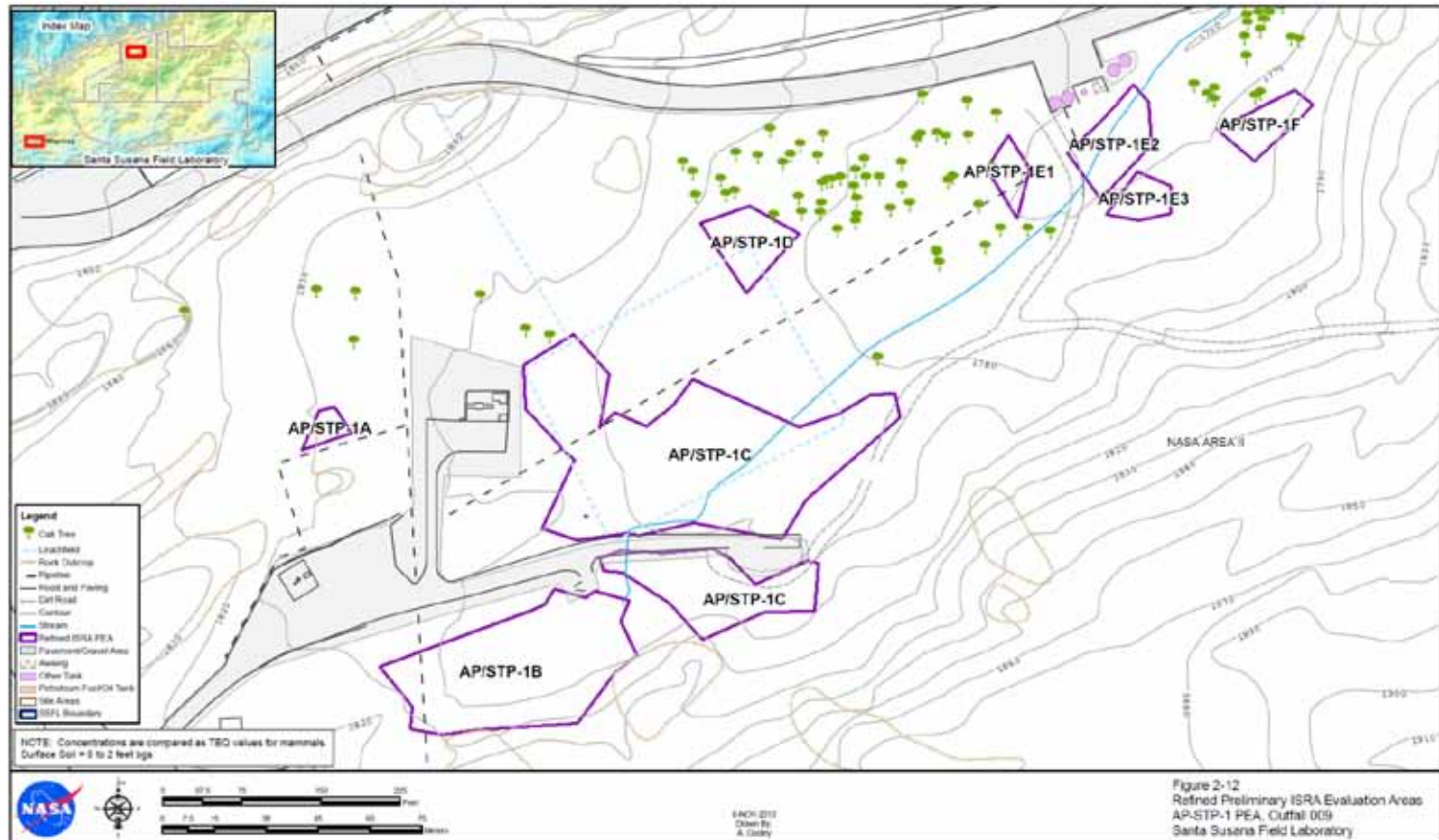
NASA 2010 ISRA Activities

November 9, 2010



Brief Background

- 2010 ISRA work began with delineation of previous sampling results for ISRA constituents of concern (COCs)
- Performed work consistent with Ventura County oak tree protection regulations





Recent ISRA Activities

- Approved 2010 Work Plan Addendum included ISRA for Ash Pile/Sewage Treatment Plant, Liquid Oxygen Plant (LOX), and Area II Landfill
- Nine planned excavations in Ash Pile/Sewage Treatment Plant area
 - Three areas completed in 2010; Remaining six scheduled for 2011
 - Approximately 78 yd³ of soils removed from AP/STP-1F
 - Approximately 172 yd³ of soils removed from AP/STP-1D
 - Approximately 33 yd³ of soils removed from AP/STP-1A
- Excavations targeted upper two feet of soil
 - Under oaks, limited initial depth to one foot
- Approved for disposal as non-hazardous soil
 - Disposed at Waste Management, Lancaster, CA



Recent ISRA Activities

AP/STP-1F



- Excavation area was entirely under oak trees
- Three oaks within excavation area

- Soils were loosened with hand tools
- Soils removed by vacuum truck, wheelbarrow, and conveyor belt





Recent ISRA Activities

AP/STP-1D

- One oak along excavation boundary
- Only hand tools used under drip line
- Small excavator used beyond drip line



- Soils under drip line were removed by wheelbarrow and conveyor belt
- All heavy equipment stayed beyond drip line





Recent ISRA Activities

AP/STP-1A



- Soils were removed from the excavation area by wheelbarrow and conveyor belt

- Soils were loosened with hand tools





Recent ISRA Activities

- AP/STP-1A

Confirmation samples below ISRA cleanup goals (dioxins 3.0 pg/g and lead 34 mg/kg)

- AP/STP-1D

Two additional removals completed to target dioxin results above goals

- AP/STP-1F

One additional removal completed to target dioxin result above goals





Future ISRA Activities

- Additional excavations for AP/STP, LOX, Area II Landfill, ELV
- Final delineation and waste characterization sampling completed
- Work anticipated to begin in April 2011

