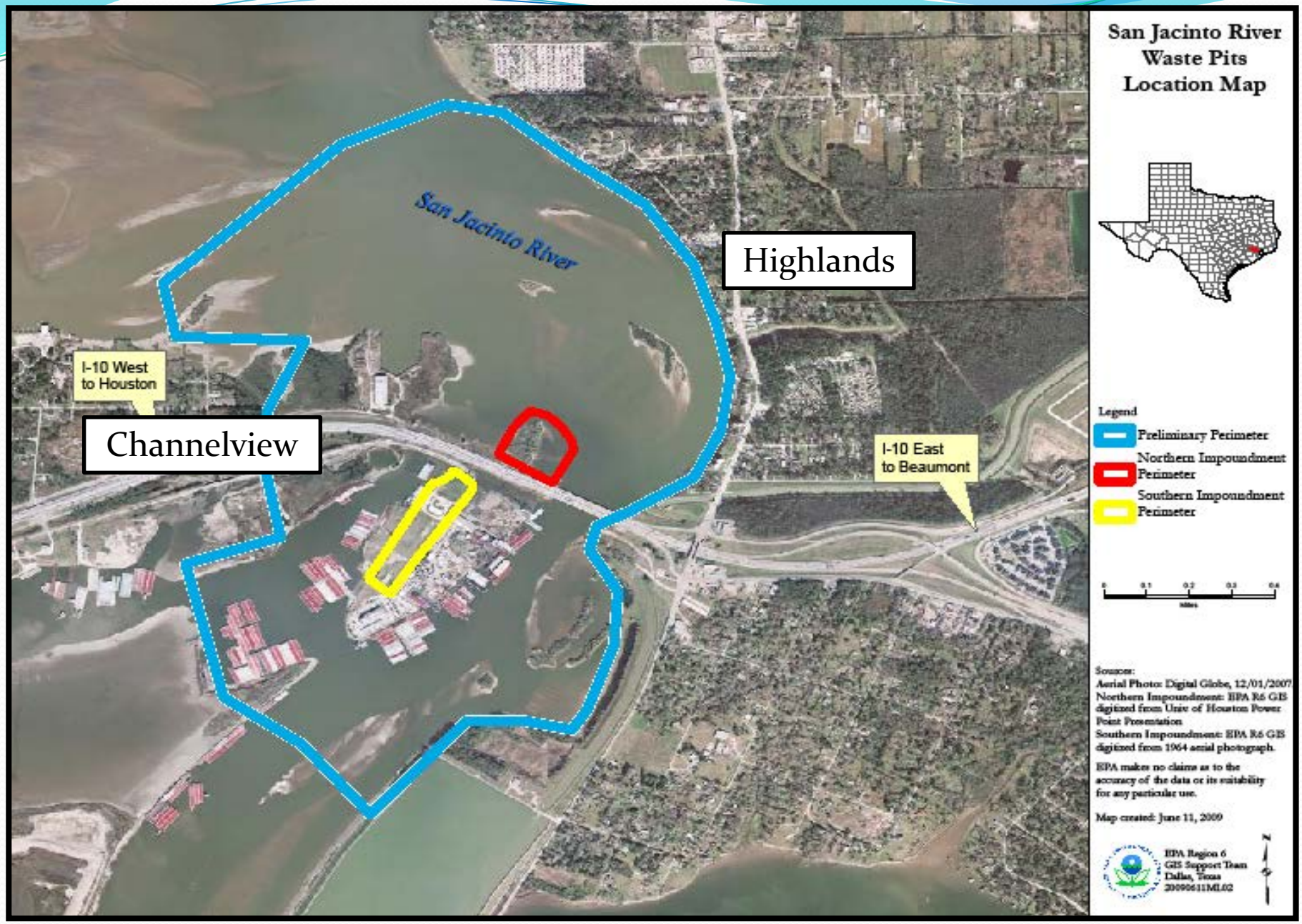
San Jacinto River Waste Pits Superfund Site

9495162

United States Environmental Protection Agency


San Jacinto River Waste Pits Location Map
San Jacinto River
Highlands
Channelview
I-10 West to Houston
I-10 East to Beaumont
Legend
Preliminary Perimeter
Northern Impoundment Perimeter
Southern Impoundment Perimeter
Sources:
Aerial Photo: Digital Globe, 12/01/2007
Northern Impoundment: EPA R6 GIS digitized from Univ of Houston Power Point Presentation
Southern Impoundment: EPA R6 GIS digitized from 1964 aerial photograph.
EPA makes no claims as to the accuracy of the data or its suitability for any particular use.
Map created: June 11, 2009
EPA Region 6
GIS Support Team
Dallas, Texas

San Jacinto River Waste Pits

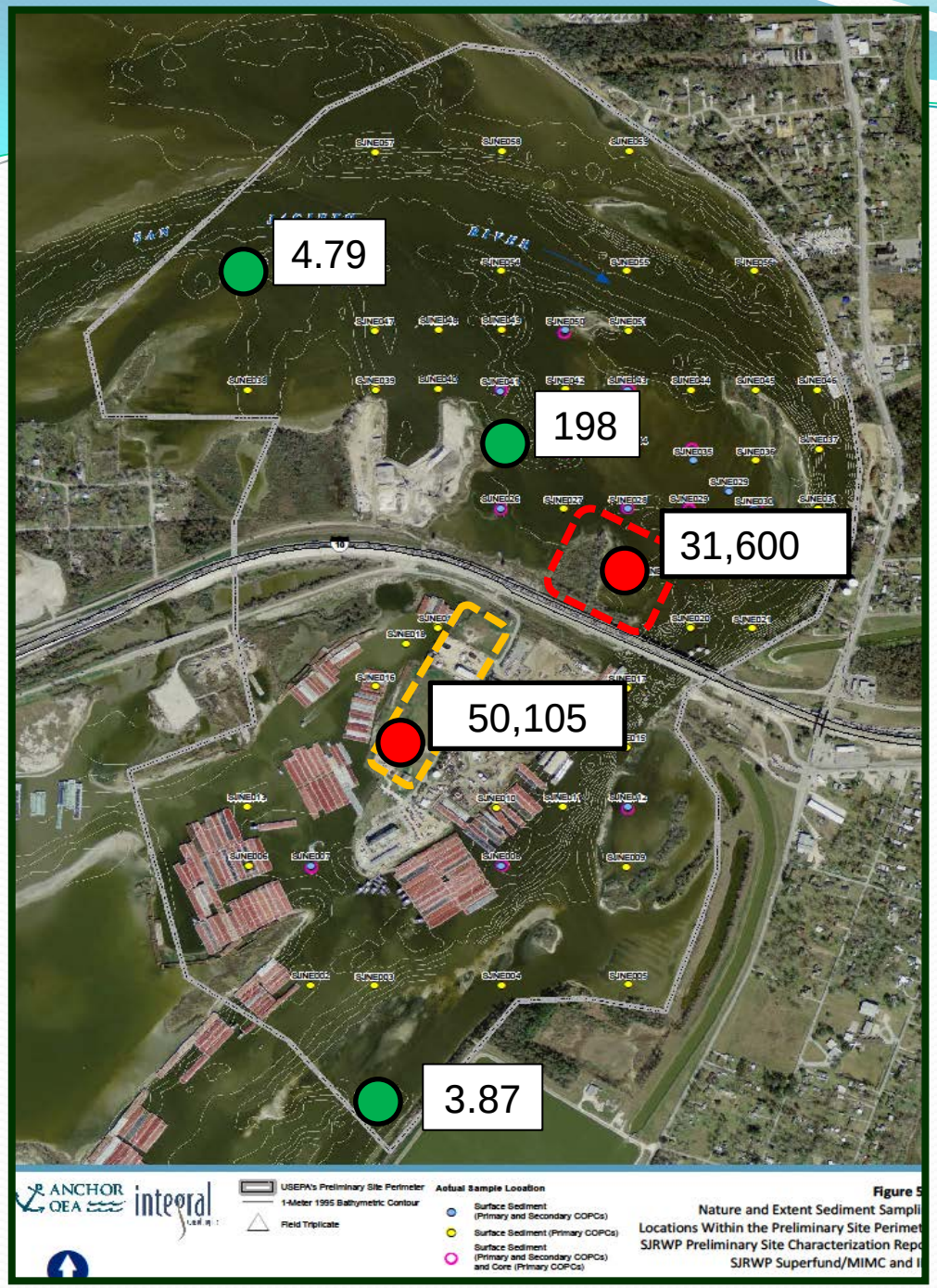
South Impoundment 1965

Northern Waste Pits Before Cap

North Waste Pits After Cap

Cap Construction Completed July 12, 2011

San Jacinto River Waste Pits Site

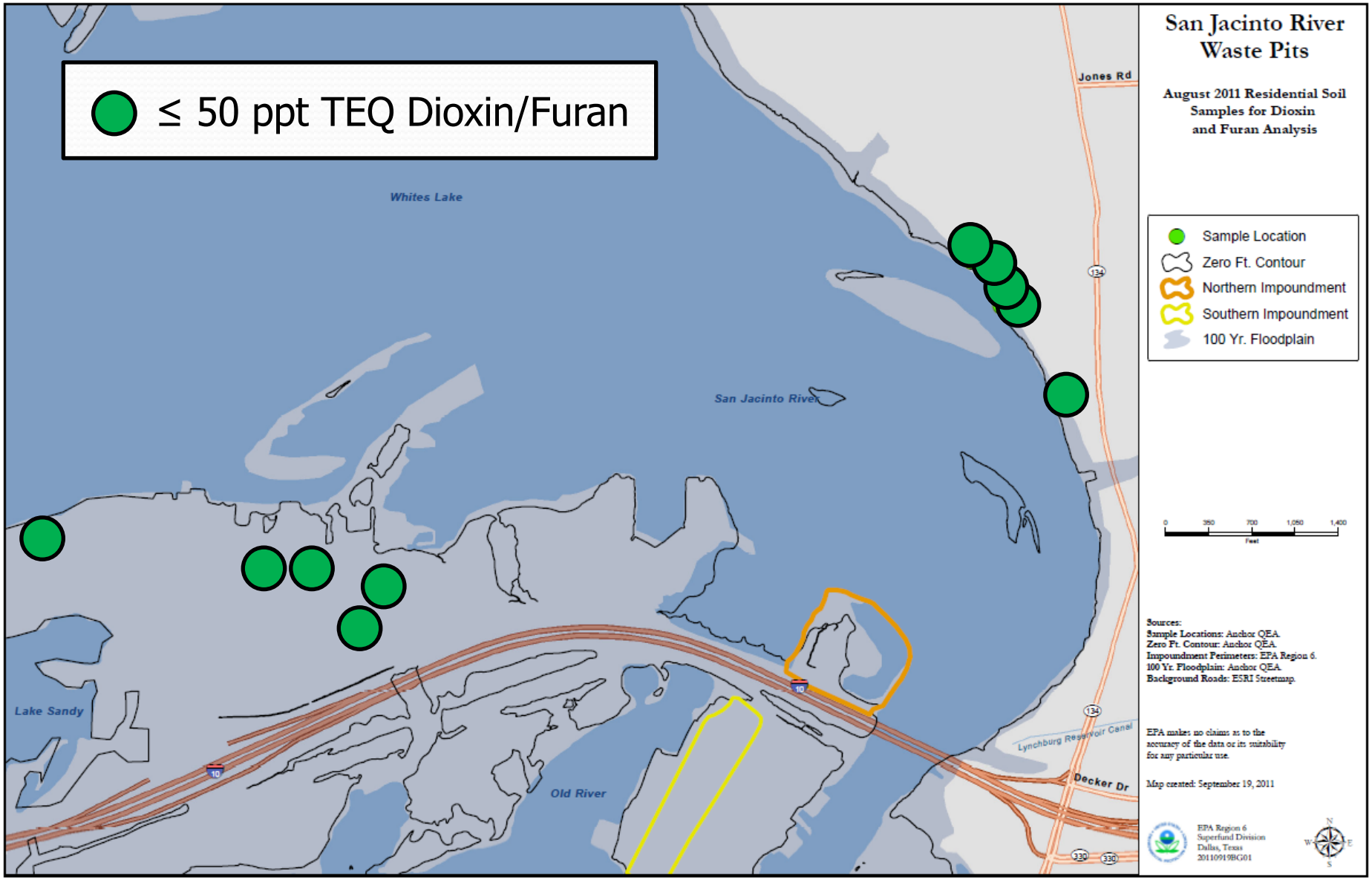


291 Surface & subsurface sediment samples within preliminary site boundary.

Waste Pits

Southern Impoundment

Sediment - ng/kg TEQ_{DF} Dioxin


≤ 50 ppt TEQ Dioxin/Furan
Whites Lake
San Jacinto River
Lake Sandy
Old River
Jones Rd
Lynchburg Reservoir Canal
Decker Dr
San Jacinto River Waste Pits
August 2011 Residential Soil Samples for Dioxin and Furan Analysis
Sample Location
Zero Ft. Contour
Northern Impoundment
Southern Impoundment
100 Yr. Floodplain
0 350 700 1,050 1,400
Feet
Sources:
Sample Locations: Anchor QEA.
Zero Ft. Contour: Anchor QEA.
Impoundment Perimeters: EPA Region 6.
100 Yr. Floodplain: Anchor QEA.
Background Roads: ESRI Streetmap.
EPA makes no claims as to the accuracy of the data or its suitability for any particular use.
Map created: September 19, 2011
EPA Region 6
Superfund Division
Dallas, Texas
20110919BG01

San Jacinto River Waste Pits Draft Feasibility Study

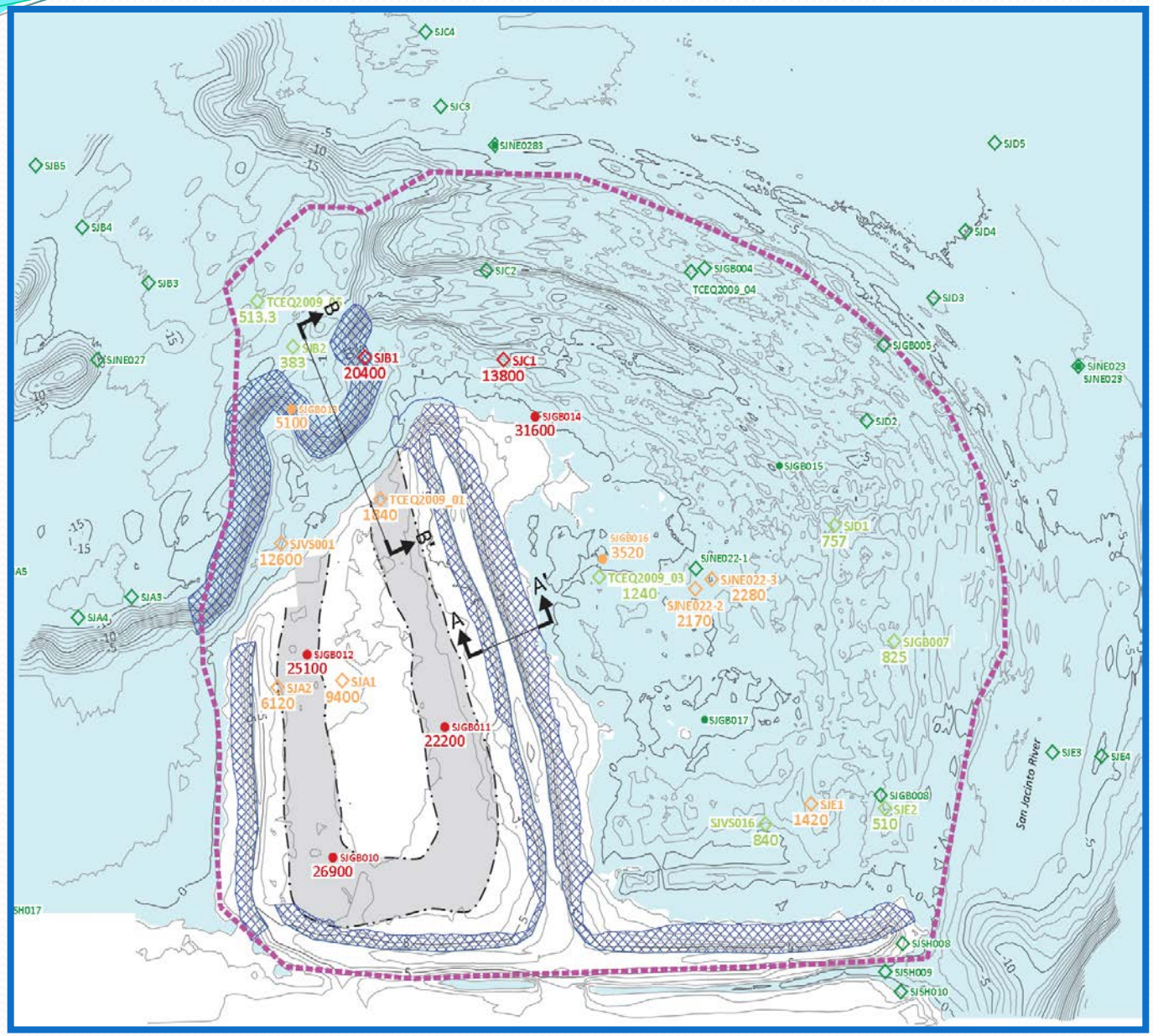
Preliminary Action Levels:

- 220 ng/kg (sediment outside of cap – recreational visitor).
- 450 ng/kg (soil in Southern Impoundment – construction worker).
- 1,300 ng/kg (soil/sediment within cap – industrial/commercial worker).

San Jacinto River Waste Pits Draft Feasibility Study

Remediation Alternatives (major components):

- Alt. 1: No further action.
- Alt. 2: Institutional Controls & monitoring.
- Alt. 3: Cap upgrades.
- Alt. 4: Partial (25%) solidification.
- Alt. 5: Partial (25%) removal.
- Alt. 6: Full removal down to 220 ng/kg.



San Jacinto River Waste Pits

Alternative 3:

Cap Improvements

- 2 mo. construction
- $2.9 MM