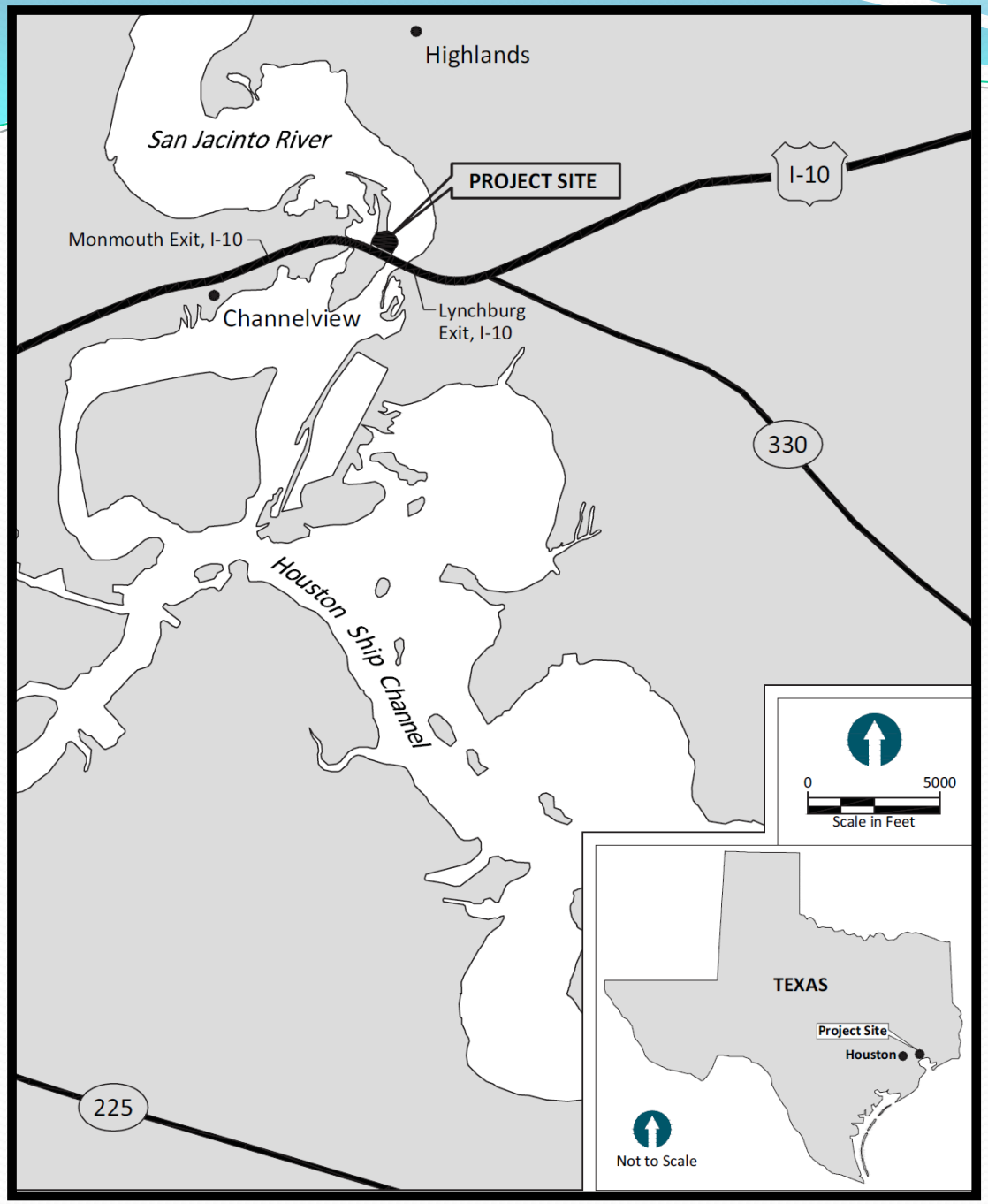
San Jacinto River Waste Pits Superfund Site

October 30, 2013

9495690

United States Environmental Protection Agency



San Jacinto River Waste Pits Superfund Site

San Jacinto River Waste Pits
Draft Feasibility Study
Remediation Alternatives

Alternative 1 – No Further Action

Alternative 2 – Institutional Controls ("ICs") and Monitored Natural Recovery ("MNR")

Alternative 3 – Permanent Cap, ICs, and MNR

Alternative 4 – Partial Solidification/Stabilization, Permanent Cap, ICs, and MNR

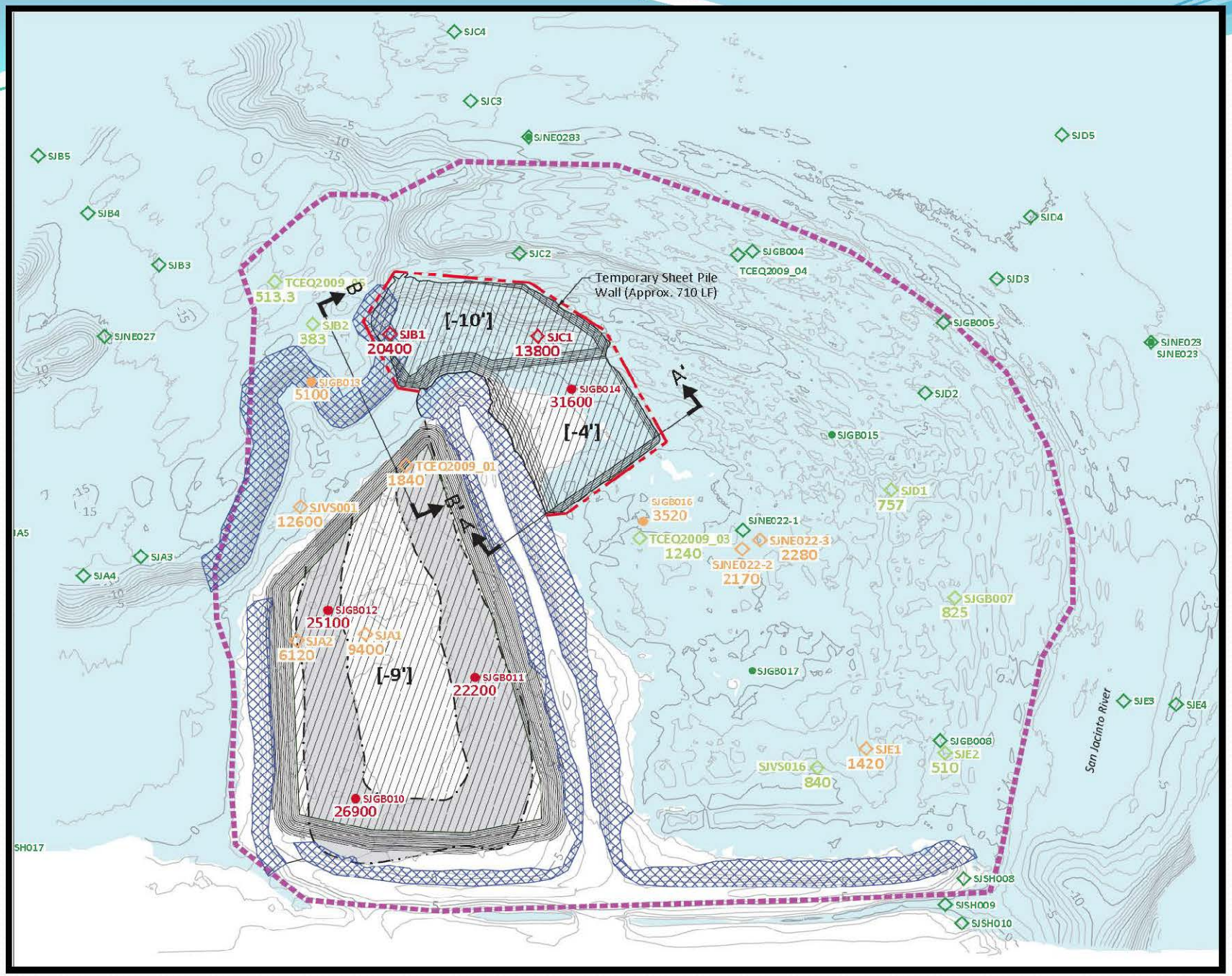
Alternative 5– Partial Removal, Permanent Cap, ICs, and MNR

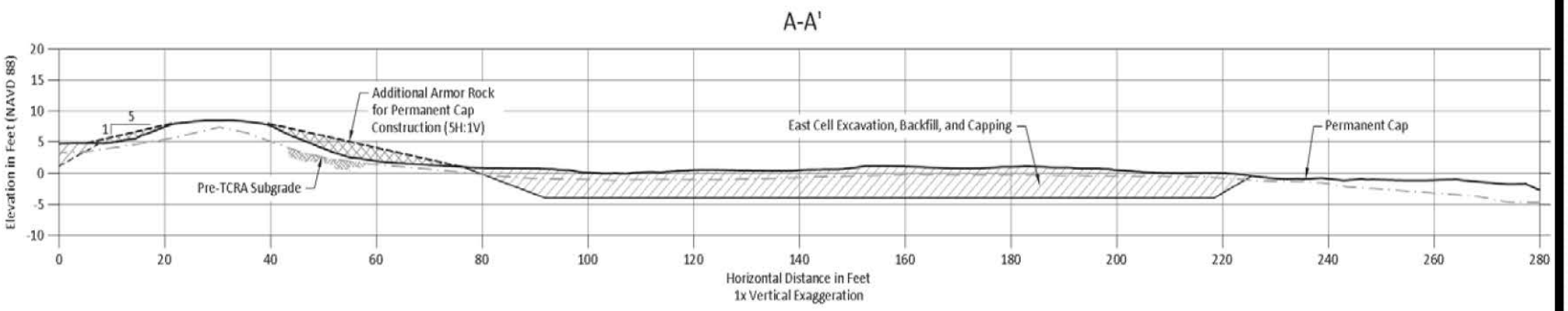
Alternative 6 – Full Removal of Materials Exceeding the Protective Concentration Level, ICs, and MNR

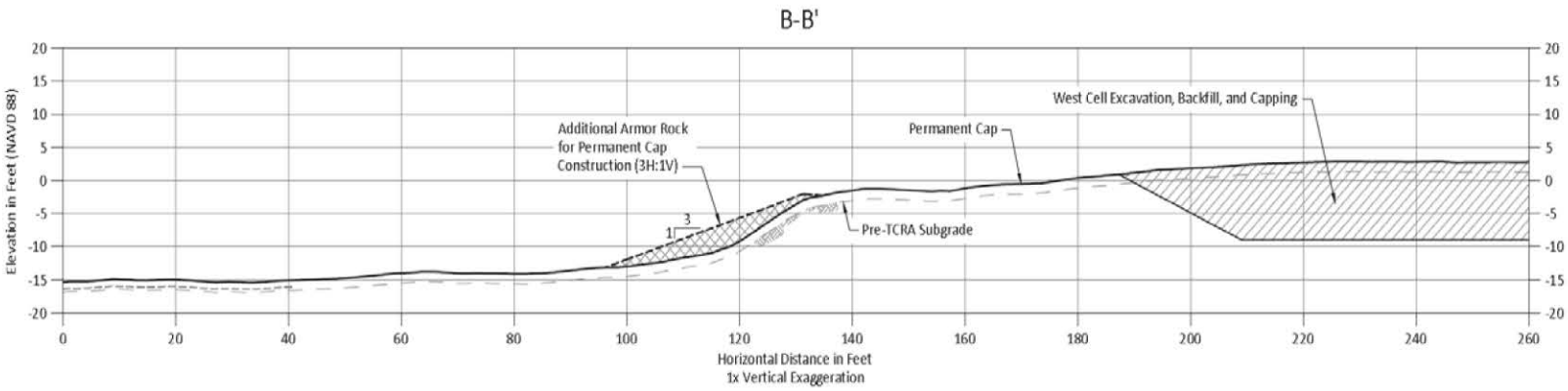
San Jacinto River Waste Pits
Draft Feasibility Study

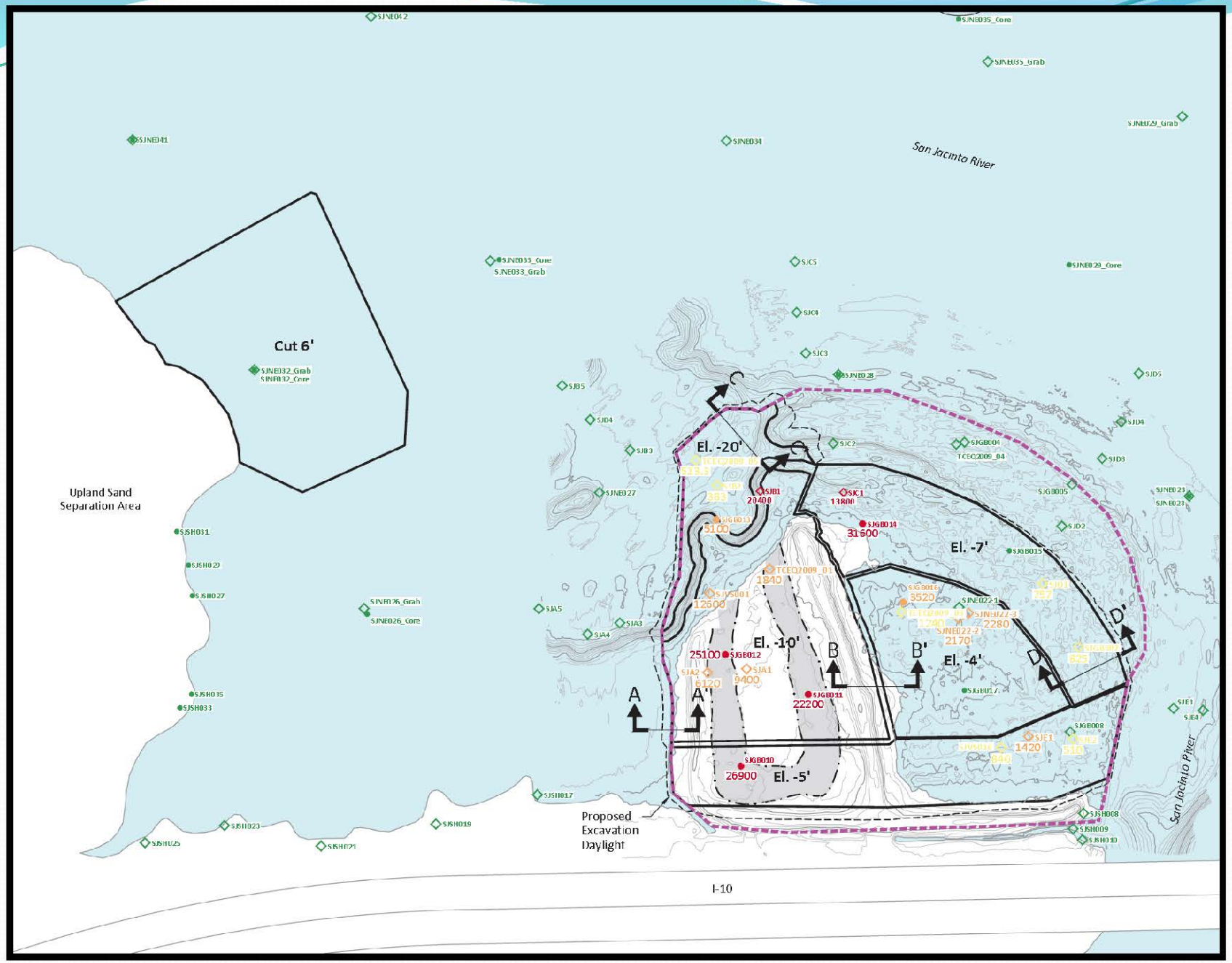
Action Levels:

220 ng/kg (sediment outside of


SJC4
SJC3
SJNE0283
SJD5
SJB5
SJB4
SJD4
SJB3
SJC2
SJGB004
TCEQ2009_04
SJD3
Temporary Sheet Pile
Wall (Approx. 710 LF)
TCEQ2009_05
513.3
SJB2
383
SJB1
20400
[-10']
SJC1
13800
SJGB005
SJNE027
SJNE023
SJNE023
SJGB013
5100
SJGB014
31600
A'
SJD2
[-4']
SJGB015
TCEQ2009_01
1840
B
SJVS001
12600
SJGB016
3520
SJD1
757
SJNE022-1
TCEQ2009_03
1240
SJNE022-3
2280
SJNE022-2
2170
SJA3
SJA4
SJGB007
825
SJGB012
25100
SJA2
6120
SJA1
9400
[-9']
SJGB011
22200
SJGB017
SJE3
SJE4
San Jacinto River
SJGB008
SJE1
1420
SJE2
510
SJVS016
840
SJGB010
26900
SJSH008
SJSH009
SJSH010


A-A'
Additional Armor Rock
for Permanent Cap
Construction (5H:1V)
East Cell Excavation, Backfill, and Capping
Permanent Cap
Pre-TCRA Subgrade
Elevation in Feet (NAVD 88)
Horizontal Distance in Feet
1x Vertical Exaggeration


B-B'
West Cell Excavation, Backfill, and Capping
Permanent Cap
Additional Armor Rock
for Permanent Cap
Construction (3H:1V)
Pre-TCRA Subgrade
Elevation in Feet (NAVD 88)
Horizontal Distance in Feet
1x Vertical Exaggeration


San Jacinto River
Cut 6'
Upland Sand
Separation Area
El. -20'
El. -10'
El. -7'
El. -4'
El. -5'
A
A'
B
B'
C
C'
D
D'
Proposed
Excavation
Daylight
I-10

RI/FS Schedule

San Jacinto River Waste Pits Superfund Site

- **Remedial Investigation Report**
- Final Report - May 2013

- **Feasibility Study Report**
- Initial Draft Submitted – July 19, 2013
- Approval of Final Report - October 2013

- **Proposed Plan for Remediation**
- Public Comment Period Begins – Nov/Dec 2013

Time Critical Removal Action (TCRA) Update

San Jacinto River Waste Pits Site

San Jacinto River Waste Pits
Draft Feasibility Study
Alternative Costs

- Alt 1 - No Further Action (Cap O&M): **$1.3 MM**
- Alt 2 – IC, MNR, Cap O&M: **$1.6 MM**
- Alt 3 – Cap Improvements, IC, MNR, Cap O&M: **$2.9 MM**
- Alt 4 - Partial Solidification, Cap Improvements, IC, MNR, Cap O&M:
  $11.2 MM
- Alt 5 – Partial Removal, Cap Improvements, IC, MNR, Cap O&M:
  $23.8 MM (disposal); **$118 MM (incinerate)**
- Alt 6 – Full Removal, IC, MNR:
  $104 MM (disposal); **$636 MM (incinerate)**

TCRA Update – Armor Cap Inspections

Results of Cap Inspections –May 2013:

- Cap observed to be in visually intact;
- Site security fencing missing lock @ S. Gate (replaced)
- Site signage intact;
- No evidence of trespassers or fishing around waste pits;
- 1st quarterly topographic surveys - no cap repair needed.

TCRA Update – Western Berm Erosion

<u>Timeline</u>

- RP notification of berm erosion July 23, 2012;
- EPA inspection of cap July 24, 2012;
- Completion of repairs of western berm August 6, 2012;
- EPA, USACE, and RP assessment of cap design/construction July 2013.