

San Jacinto River Waste Pits Superfund Site



Community Update Meeting

September 8, 2026

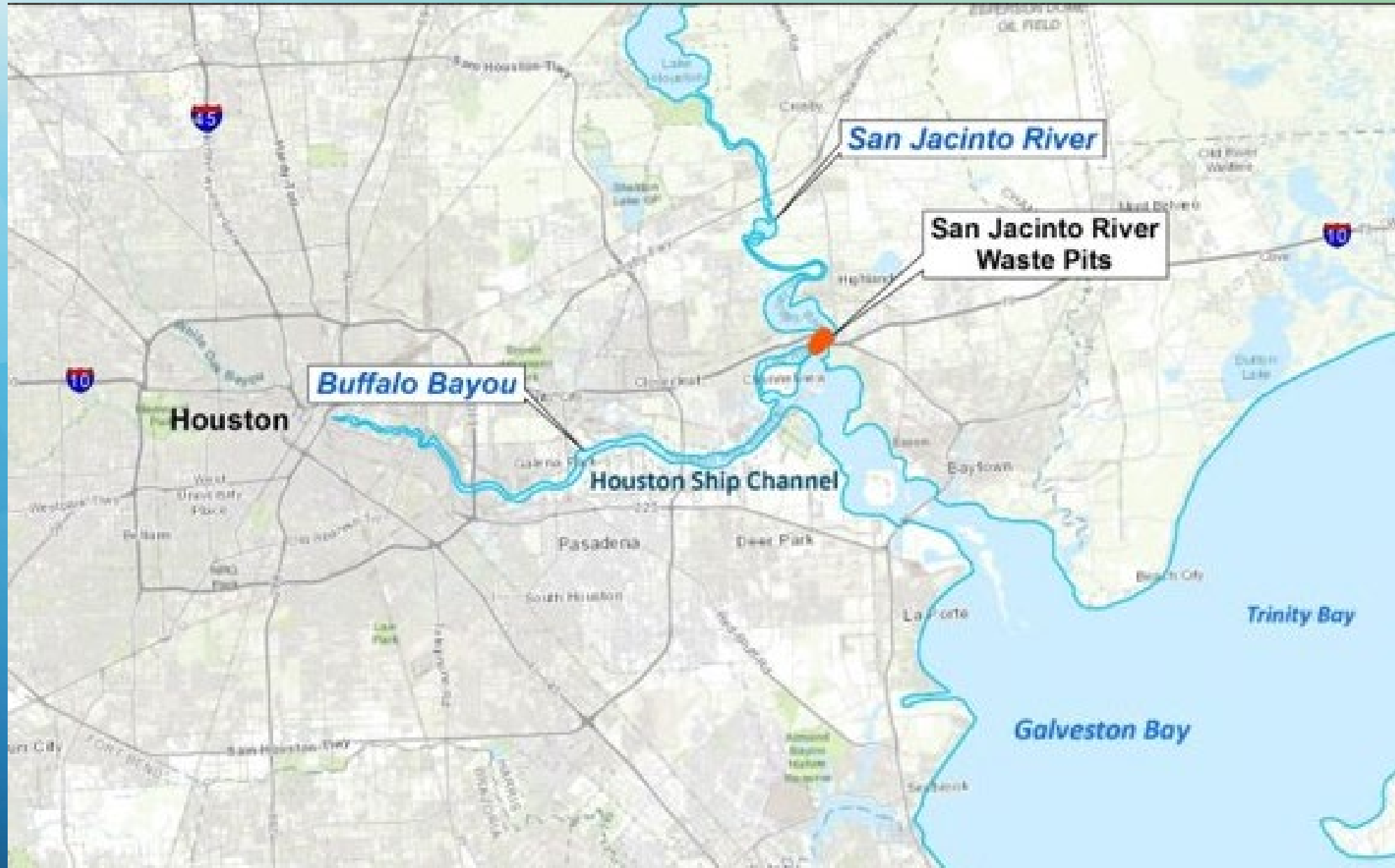
Discussion Topics

- EPA Remedial Project Manager Update
- Site Overview
- Southern Impoundment Remedial Action Update
- Northern Impoundment Remedial Action Update

EPA Remedial Project Manager (RPM) Update

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Site Overview





SITE BACKGROUND AND HISTORY

- Located in Harris County, Texas
- Built mid-1960s for disposal of paper mill wastes containing dioxins
- Waste exposed to river due to subsidence and sand-mining

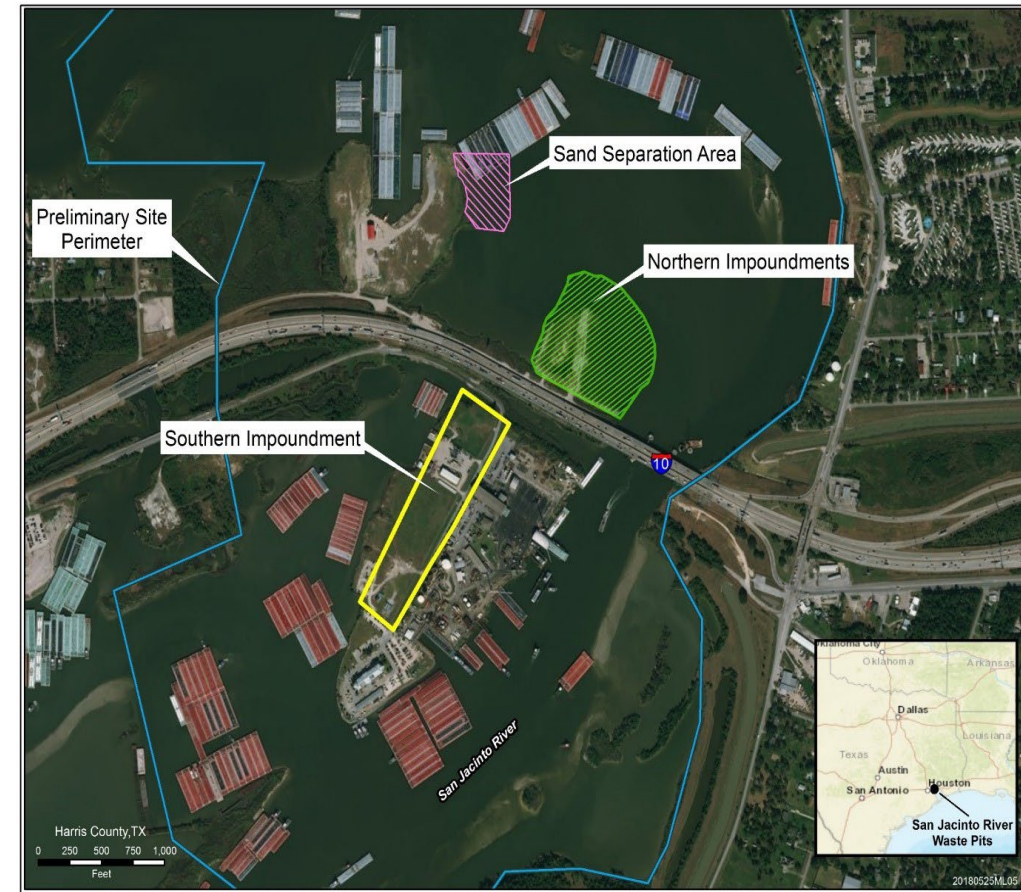


- Added to NPL in 2008
- 2011 – Temporary Cap installed
- 2017 – ROD signed by EPA Administrator



Summary of 2017 Selected Remedy

- Remove waste exceeding cleanup criteria from both Northern and Southern Impoundments for offsite disposal
- Prevent releases to river during excavation - BMP (cofferdam) for Northern Impoundments; Texas Surface Water Quality Standards for dioxin/furans both ARAR and risk-based cleanup level
- Monitored Natural Recovery for the Sand Separation Area



Southern Impoundment

Remedial Action Update

San Jacinto River Waste Pits Superfund Site Southern Impoundment



Southern Impoundment Remedial Action Timeline

- October 2017 – Record of Decision
 - April 2018 – Remedial design (RD) Administrative Settlement Agreement and Order
 - May 2021 – Amended Southern Impoundment 100% RD
 - September 2021 – EPA issues Remedial Action (RA) Unilateral Administrative Order
 - November 2021– RA Work Plan approved
 - May 2024 – RA Construction Complete
 - August 2024 – Draft RA Report received
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- A decorative footer consisting of a series of overlapping blue triangles and polygons in various shades of blue, creating a modern geometric pattern.

Summary of Remedial Action

- Field Activities Completed on May 2, 2024
- Summary of Remedial Action Field Activities
 - 150,000 tons of impacted material transported and disposed of off-site
 - 9,025 loads of impacted material removed
 - 13,000 truck-loads of clean fill imported and placed on-site
 - 1.4 million gallons of contaminated water treated
 - 104,300 manhours of labor

Southern Impoundment Update



- Remedial construction is complete for the Southern Impoundment (SI), including excavation of additional volume as addressed in ESD.
- Finalizing the Remedial Action Report
- Preparation of Operation and Maintenance Plan as part of the Remedial Action Report
- Preparation of the Institutional Controls

Northern Impoundment Remedial Action Update

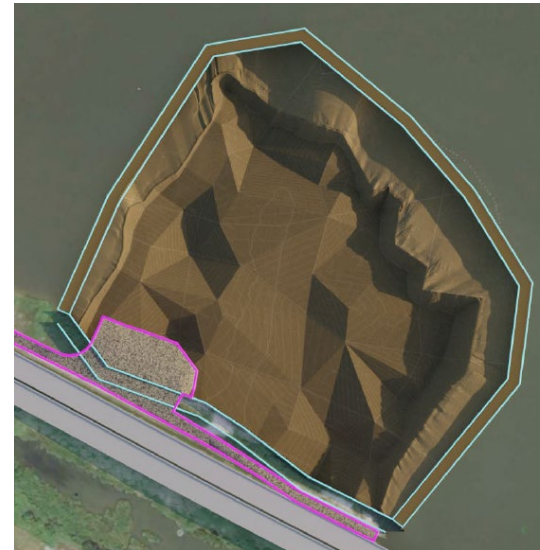
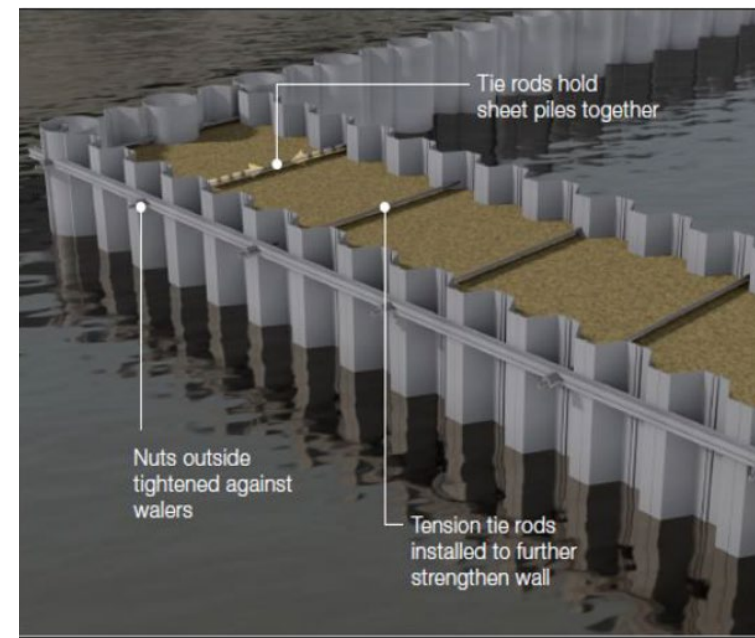
Northern Impoundment Update

- 9/6/2025 – Approved with conditions RD for Northern Impoundments and Sand Separation Area (SSA)
- 4/16/2026 – Explanation of Significant Difference (ESD) issued.
- 4/28/2026 - EPA issued Unilateral Administrative Order (UAO)
- 5/26/2026 – PRPs submit notice they will comply with the UAO.



Northern Impoundment Design Approach

- Cofferdam wall height +10 feet
- RD estimates 7-year construction
 - Several factors could result in shortened schedule
- Cofferdam adjacent to major highway and navigational channel
- Multiple excavation technologies will be required.
- An extensive water management and treatment system required.



Northern Impoundment Remedial Design Approved with Conditions

- Recognizes that some supporting portions of the design will not be finalized until a remedial contractor is selected; requires EPA review and approval of final plans.
- Directs that post-excavation confirmation sampling will be performed.
- Requires updates of sampling depths and locations through pre-excavation sampling.
- Requires an operations and maintenance plan be developed for the Sand Separation Area that includes routine sampling and inspections, as well as 5-year reviews.
- Development of a plan that meets the substantive requirements of an Aquatic Resource Relocation Plan and an Aquatic Introduction Permit as part of the dewatering of the BMP.

Explanation of Significant Difference

- Documents changes from the Record of Decision (ROD)
 - Increase in Remedy Cost Estimate Based on Final RD
 - Potential Excavation Modification for Northern Impoundments
 - Increase in Material Excavated in Southern Impoundment
 - Does not fundamentally alter the remedy as selected in the ROD
 - Includes an Administrative Record that supports the changes

Increase in Remedy Cost Estimate Based on Final RD

- Escalation between 2017 and 2025 (construction-specific price increases);
- Design and construction changes in the 100% RD for implementation of the 2017 selected remedy;
 - Increased size of BMP cofferdam wall
- Incorporates results of design investigations, including increased depth and volume of waste.
- Includes construction costs not anticipated at time of the ROD

Item	Description	2017 Alternative 6N	100% RD - Combination Land and Dredging (2025 Design)
0001	Mobilization/Demobilization	\$5,337,300	\$14,763,000
0002	Environmental Protection and Erosion Control	\$300,000	\$330,000
0003	Construction Payment and As-Built Surveys	\$300,000	\$150,000
0004	Construction Materials Testing	\$30,000	\$45,000
0005	Remove, Wash, and Dispose Armored Cap	\$9,501,800	(In Item 8, 9, 10)
0008	Cofferdam	\$18,066,200	\$66,065,000
0008.1	Barge Strike Protection (FRP)	\$0	\$2,100,000
0007	BMP Dewatering and Water Treatment	\$1,419,600	\$18,302,000
0008	Excavation	\$1,944,000	\$27,374,000
0009	Sediment Stabilization prior to Shipment	\$4,860,000	\$15,287,000
0010	Haul & Disposal of Sediment to Class 2 Landfill	\$30,294,000	\$46,920,000
0100	Backfill	--	\$5,048,000
SUBTOTAL FOR ALL DFOV		\$72,052,900	\$196,384,000
Engineering Design		\$4,324,000	--
Construction Administration/Observation		\$4,324,000	\$8,052,000
EPA 5 Year Review (Net Present Value) - SSA		\$108,000	\$103,000
Institutional Controls (Net Present Value) - SSA		\$70,000	\$86,000
MNR Monitoring (Net Present Value) - SSA		\$264,000	\$322,000
Long Term Cap Monitoring (Net Present Value)		--	--
Cap Maintenance (Net Present Value)		--	--
Insurance, Performance and Payment Bonds		--	\$4,910,000
Contingency		\$24,342,870	\$52,465,000
TOTAL PROJECT COSTS		\$81,142,900	\$209,857,000
TOTAL PROJECT CAPITOL COSTS WITH CONTINGENCY		\$105,485,770	\$262,322,000

Potential Excavation Modification

- EPA's September 9, 2025, approval of the 100% RD incorporates some flexibility into the RD to evaluate the final waste excavation surface.
- RD acknowledges that potential risks could limit the ability to collect post-excavation samples in some circumstances and the need to develop appropriate management decisions to address those risks.
- The ESD provides for development of a framework to evaluate addressing storm/heave contingences as provided in the RD approval letter.

Unilateral Administrative Order

- Directs PRPs to implement the ROD and 9/9/2025 Approved Remedial Design with Conditions.
- Establishes enforcement guidelines to ensure the work is carried out in accordance with the ROD and RD.
- Provides a schedule for implementation of the remedy pursuant to the unilateral order.
- The PRPs provided notice on 5/26/2026 that they intend to comply with the UAO

What's Next

- Schedule in the UAO establishes timeframes for milestones in the project:
 - Selection of PRP project coordinator and oversight engineer
 - Selection of remedial contractor(s)
 - Timing of deliverables required as part of the conditional approval of the RD
 - Installation of the BMP
 - Start of excavation
- First major milestone was the selection of the PRP project coordinator (PC) and supervising contractor (SC) on or by 6/10/2026
 - EPA approved the SC on 7/2/2026
 - EPA approved the PC on 7/22/2026

What's Next, continued

- Next is selection of remedial contractors
 - 90 days after approval of the SC
 - Due to EPA on or before 9/30/2026 based on the SOW in the UAO
- PRP PC and SC are meeting monthly with EPA discuss implementation of the Work.
- Any updates to the schedule will be circulated to the stakeholders to assist them in planning for review and comment of supplemental plans and updated design documents.
- The EPA will be requesting that the review and comments be completed within the timeframes provided so that the project can continue in a timely manner
- Start of 5-Year Reviews. First 5-Year Review due in Nov. 2027.



QUESTIONS?

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