Overview of the Sabine Pass to Galveston Bay (S2G) Coastal Storm Risk Management (CSRM) Project

Teresa King

S2G Program Manager

20 August 2020

US Army Corps of Engineers

BUILDING STRONG®

S2G ORANGE - STATUS UPDATE

Feasibility | Design | Construction | Closeout/Transfer

ORANGE EXECUTION STRATEGY

Design | Construction | Management

A-E SATOC
Award: 11 Dec 2019 (A)

Program Workshop TO
Award: 25 Feb 2020 (A)
Programmatic Activities TO
Award: Aug 2020

Borrowed Capacity

SWF BI-MATOC Capacity Transfer Complete

SWG $7B MATOC
Award: Nov 2021

QA Testing
All Contracts
TBD

Program

In-House MVN (35%)

Contract 1 TO
VE and Survey
Award: 6 May 20 (A)

A-E SATOC TO
Design to 35%
Award: Sep 2020

A-E SATOC TO -
Complete design/DB RFP

A-E SATOC TO

Contract 1 (D-B)
Award: Dec 2021

Contract 2 (D-B-B)
Award: Nov 2022

Contract 2A (D-B-B)
Award: Sep 2022

Contract 3 (D-B)
Award: May 2022

Contract 4 (D-B)
Award: May 2022

Contract 5 (D-B-B)
Award: Dec 2022

Contract 6 (D-B-B)
Award: Sep 2022

EDC/CPS
All Contracts:
A-E SATOC
Borrowed Capacity

Project

Contract #	Scope
1	Cow Bayou Complex – 84 ft Navigable Gate, Pump Station
2	2.4 miles floodwall, 3.0 miles levee, 18 gates, drainage structures
2A	4.2 miles floodwall, 4.9 miles levee, 5 gates, drainage structures
3	Adams Bayou Complex – 84 ft Navigable Gate, Pump Station
4	7 Pump stations, tie ins, gates, drainage structures
5	2.6 miles floodwall, 7.6 miles levee, 7 gates, drainage structures
6	Six Mitigation Sites

ORANGE ACTIVITIES COMPLETED TO DATE

FY2019												FY2020											
Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep

Award TO, Research and Reports - Phase 1 ESAs

4/7 Done

Award TO and Field Work - Cultural Resources

Cow Bayou Complex (OC01) Design

35%

Award AE SATOC

Workshop and Cow Bayou TOs

Award Programmatic Activities TOs

Award Design to 10%/35% TO

Workshop

Cow Bayou VE Study

Award IEPR TO

SQRA

Engineering Support TO

ORANGE - H&H

- *Coastal Hazards Report:* Completed
- *Interior Drainage:* Cow Bayou complete, remainder being planned
- *Compound Flooding:* Cow Bayou/Adams Bayou – Aug 2020
- *Lower Sabine and Lower Neches River Hydrology and Hydraulic Analysis:* Completed
- *Influence of Riverine Inflows in Coastal Surge Models:* Completed
- *Engineering with Nature:* Completed, incorporating into design Task Orders

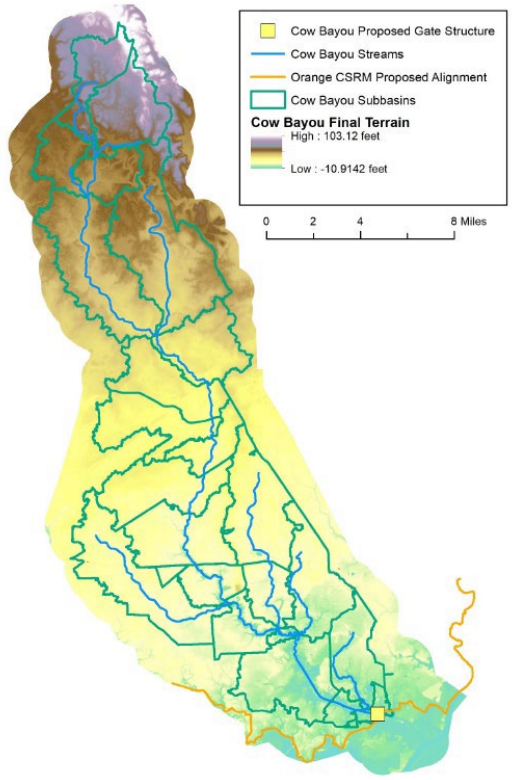


FIGURE 4.3: FINAL COW BAYOU SUBBASINS AND THE FINAL TERRAIN ELEVATION DATASET

S2G FREEPORT - STATUS UPDATE

Feasibility | Design | Construction | Closeout/Transfer

FREEPORT EXECUTION STRATEGY

A-E SATOC
Award: 15 Oct 2019 (A)

Program Workshop TO
Award: 15 Jan 2020 (A)
Programmatic TO
Award: 17 Aug 2020 (A)

Borrowed Capacity

SWF BI-MATOC Capacity Transfer Complete

SWG $7B MATOC
Award: Nov 2021

QA Testing
All Contracts
TBD

Program

A-E SATOC TO
Design to 35%
Award: 30 Sep 2020

A-E SATOC TO
Complete design/DB RFP

Contract 2 (D-B)
Award: Feb 2022

Contract 3 (D-B-B)
Award: Jun 2022

Contract 4 (D-B-B)
Award: Oct 2022

EDC/CPS
A-E SATOC
Borrowed Capacity

Project

Contract #	Scope
2	74 ft Sector gate, Pump Station, 0.2 miles floodwall
3	0.63 miles levee raise, 3.1 miles floodwall replacement
4	12.5 miles levee raise, 2.2 miles floodwall replacement/new, 3 drainage structures

FREEPORT ACTIVITIES COMPLETED TO DATE

FY2019												FY2020											
Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep

Award TO, Research and Reports - Phase 1 ESAs

All areas done

Award TO and Field Work - Cultural Resources

Award AE SATOC

Workshop TO

Programmatic Activities TOs

Design to 10%/35% TO

Workshop

Award IEPR TO

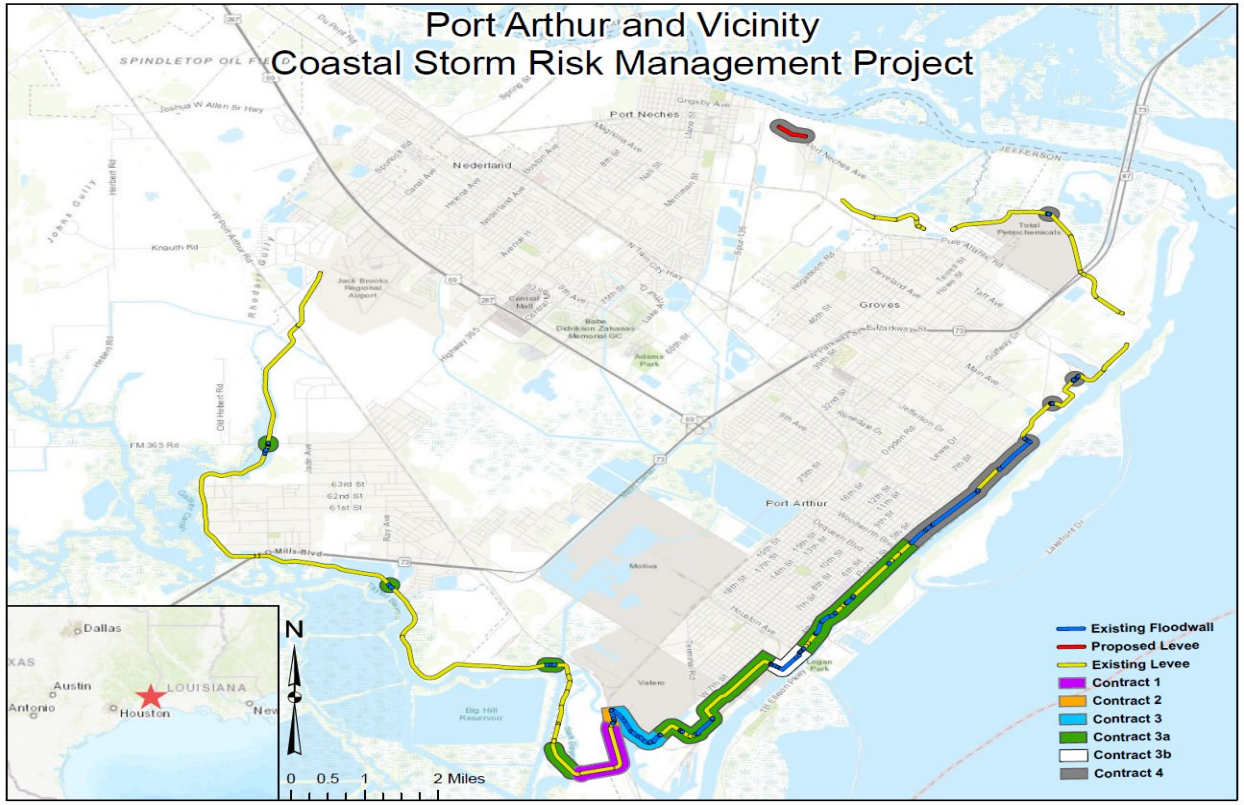
SQRA

Engineering Support TO

FREEPORT - H&H

- *Coastal Hazards Report:* Completed
- *Interior Drainage:* In progress - Jan 2021
- *Compound Flooding:* Completed
- *Engineering with Nature:* Completed, incorporating into design Task Orders

S2G PORT ARTHUR - STATUS UPDATE



Feasibility → Design → Construction → Closeout/Transfer

PORT ARTHUR ACQUISITION STRATEGY

Design | Construction | Management

SWG $96M AE MATOC
Award: 4 Jun 2019 (A)

Borrowed Capacity

SWF BI-MATOC Capacity
Transfer Complete

SWG $7B MATOC
Award: Nov 2021

QA Testing
All Contracts
TBD

Program

Project

Contract 1
In-House SWG → Contract 1 (D-B-B)
Award: 30 Mar 2020 (A)

Contract 2 AE/TO (RFP)
Award: 9 Apr 2020 (A) → Contract 2 (D-B)
Award: Feb 2021

Contract 3
In-House LRD → Contract 3 (D-B-B)
Award: Jun 2021

Contract 3A AE/TO
Award: 2Jun 2020 (A) → Contract 3A (D-B-B)
Award: Jun 2021

Contract 3B
In-House LRD → Contract 3B (D-B-B)
Award: Jun 2021

Contract 4
In-House SWG/AE → Contract 4 (D-B-B)
Award: Aug 2022

EDC
All Contracts:
In-house and SWG AE
MATOC (as needed)

S&A/CPS
All Contracts:
In-house, AE (as needed)

Contract #	Scope
1	1.1 miles levee raise
2	0.2 miles floodwall replacement
3	0.1 miles levee raise, 1.0 miles floodwall replacement, 11 gates
3A	3.3 miles levee raise, 1.9 miles floodwall replacement, 1 gate
3B	0.02 miles levee raise, 0.5 miles floodwall replacement, 7 gates
4	0.4 miles levee raise. 0.4 miles new levee, 2.0 miles floodwall replacement, 3 gates

PORT ARTHUR ACTIVITIES COMPLETED TO DATE

FY2019												FY2020											
Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep

PPA

Award AE TOs – Survey, Geotech

Award AE TO – PAV02 DB RFP

Award AE TO – PAV03A Design

Design PAV03/03B

Award TO, Research and Reports - Phase 1 ESAs

All areas done

Award Phase 2 ESA TO

Award TO and Field Work - Cultural Resources

Award IEPR TO

SQRA

Engineering Support TO

PORT ARTHUR - H&H

- *Coastal Hazards Report:* Completed
- *Interior Drainage:* Completed
- *Compound Flooding:* Completed
- *Lower Sabine and Lower Neches River Hydrology and Hydraulic Analysis:* Completed
- *Influence of Riverine Inflows in Coastal Surge Models:* Completed
- *Engineering with Nature:* Completed, incorporating into design Task Orders

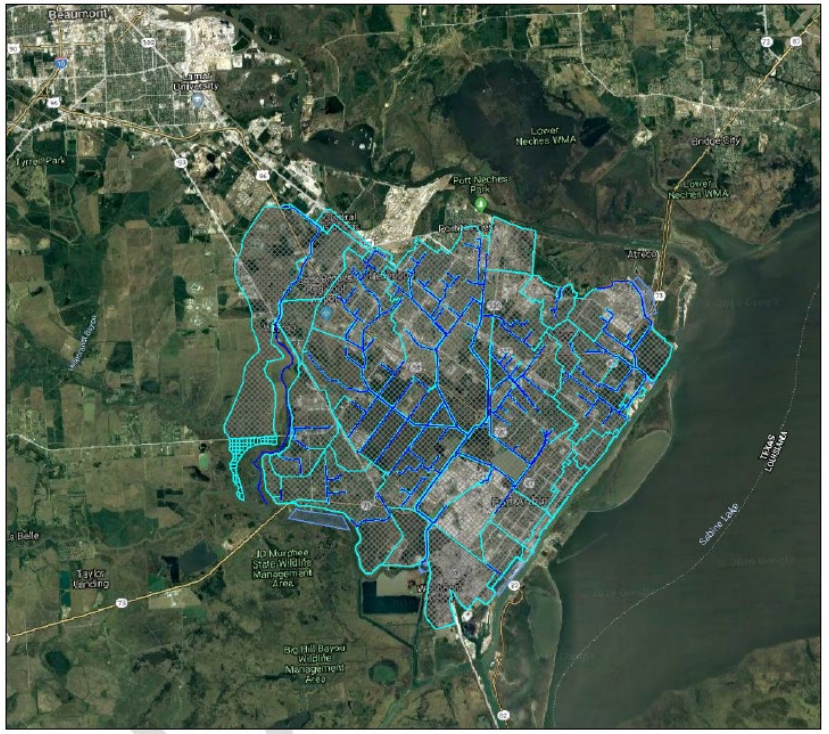


Figure 19: Interior HEC-RAS Model Extent. Royal blue lines represent channels, and light blue lines are outlines of the 2D flow areas. The mesh covers the model extents.