FY18 Scheduled Contracts
FY19 Planned Contracts

Christopher Frabotta
Chief, Navigation Branch
Galveston District
U.S. Army Corps of Engineers
31 OCT 2017

US Army Corps of Engineers

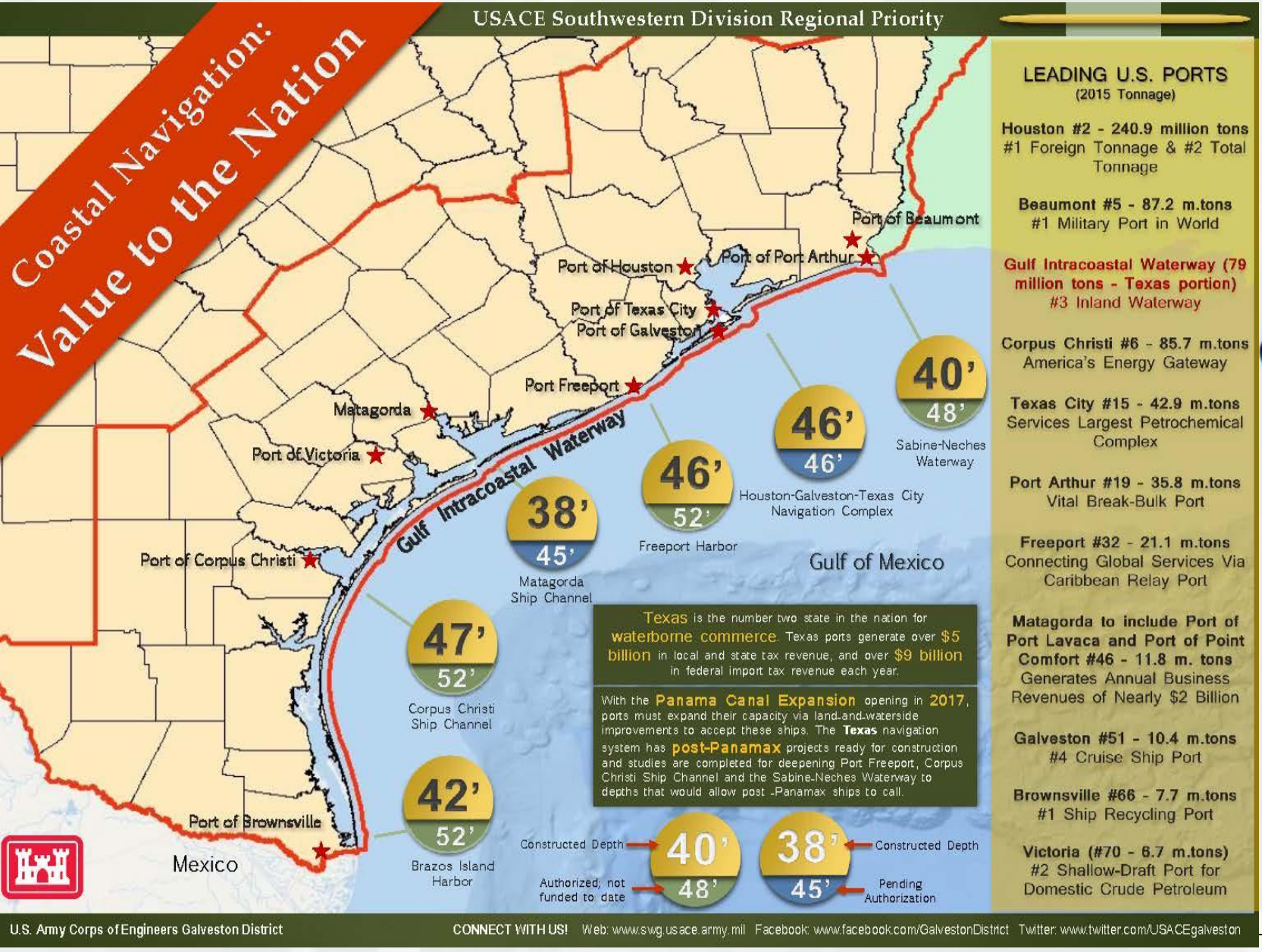
U.S.ARMY

GALVESTON DISTRICT FACTS

- ✓ Texas #2 in Nation in Maritime Commerce
- ✓ Texas Ports moved 552M+ tons in 2015
- ✓ Galveston District Ports — National Rank
  - ✓ Houston (2)
  - ✓ Beaumont (5)
  - ✓ Corpus Christi (6)
  - ✓ Texas City (15)
  - ✓ Port Arthur (19)
  - ✓ Freeport (32)
  - ✓ Matagorda (46)
  - ✓ Galveston (51)
  - ✓ Brownsville (66)
  - ✓ Victoria (70)

- ✓ Gulf Intracoastal Waterway (3)

- ✓ GIWW-TX 73M+ tons at $43B in 2015
- ✓ >600M tons of Commercial Cargo
- ✓ 21.8% Nation's Total Tonnage
- ✓ 25.4% of Nation's Imports
- ✓ 28.6% of Nation's Exports



BUILDING STRONG®

GALVESTON NAVIGATION OM FUNDING

FY-17 Execution

President's Budget (less %1)	$106,737,000
FY-17 Allocation	$128,037,000
Carry-in	$ 13,727,000
Available to Obligate	$141,764,000
Obligated	~$120,000,000
Percent Execution	~85%

FY-18 Funding Outlook

President's Budget	$109,442,000
Carry-in	$ 13,727,000
Total Anticipated	$121,542,000

FY-18 INITIATIVES

- **Continue Hydrographic Survey Webpage**
  - All six (6) Deep Draft Navigation Complexes & Gulf Intracoastal Waterway now online
  - http://www.swg.usace.army.mil/Missions/Navigation.aspx
- **Continue with TCOON Partnership with NOAA**
  - Add Matagorda Ship Channel current meter
- **Complete Re-Spacing & Deployment of new GIWW Mooring Buoys**
- **Construct non-Federal Placement Area Capacity**
  - Corpus Christi (PA-13)
  - Freeport Harbor (PA-1)
  - Sabine-Neches Waterway (PA-8)

Operations Managers

U.S. ARMY CORPS OF ENGINEERS
ESTABLISHED 1880
GALVESTON DISTRICT

OPERATIONS MANAGERS

Belynda Kinman
Tricia Campbell
Aron Edwards
Steve Howard
Seth Jones
Ashton Burgin
Eric Russek

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Sabine-Neches Waterway

Belynda Kinman
Operations Manager
Navigation Branch
31 October 2017

Galveston District – Dredging Meeting

Custodians of the Texas Coast

US Army Corps of Engineers
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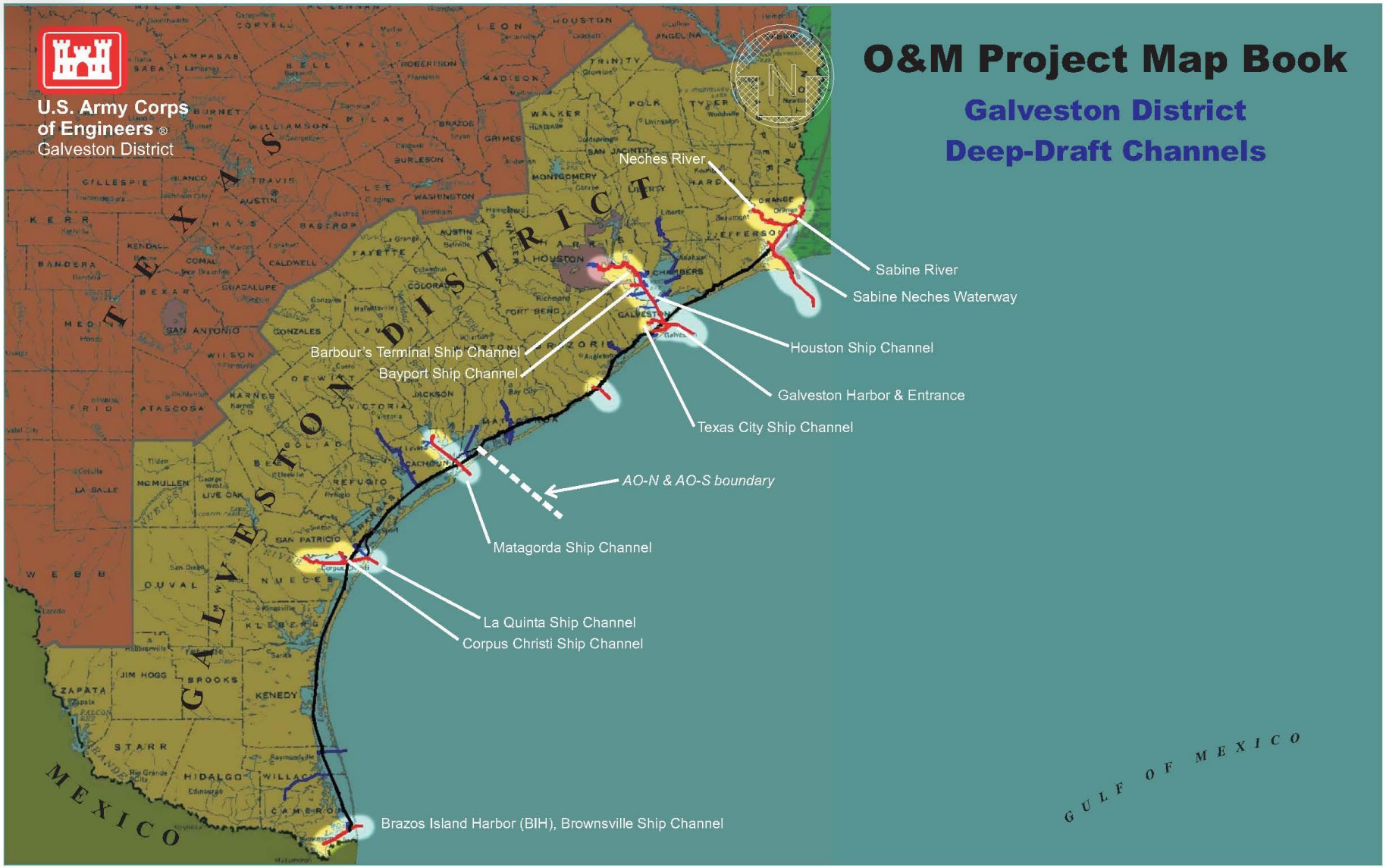
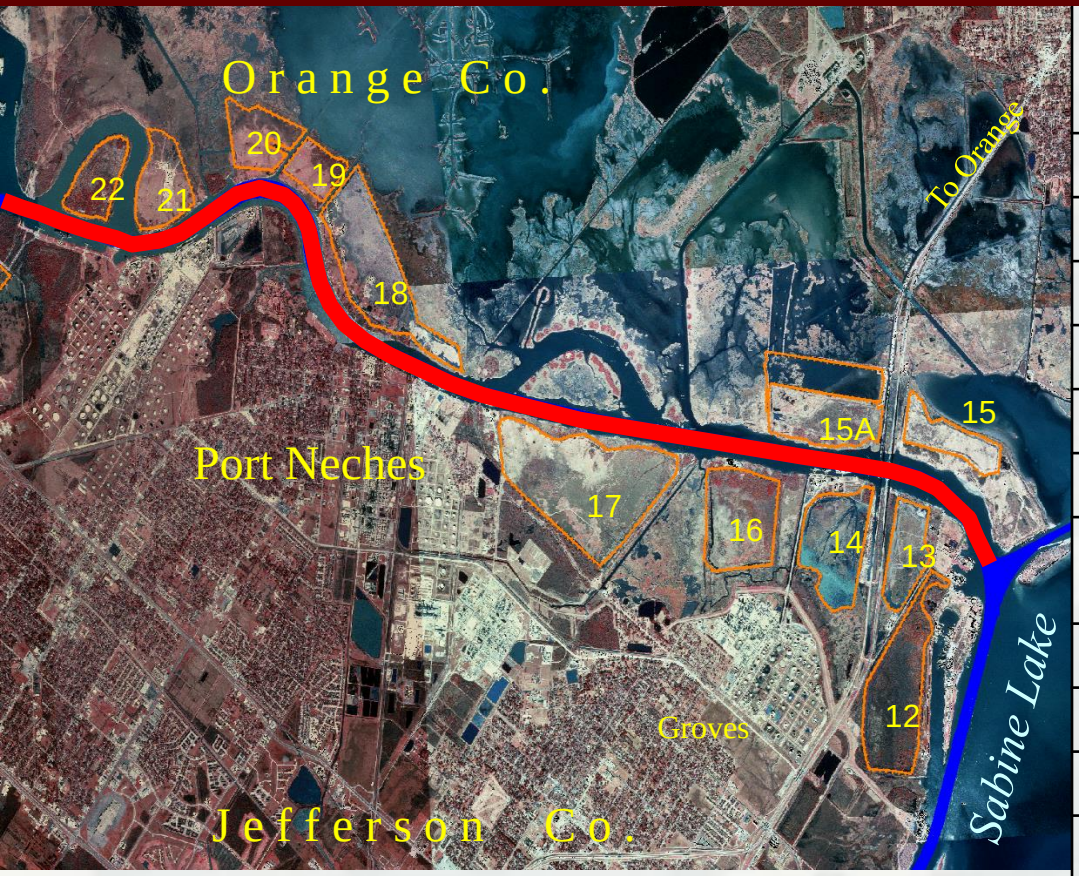
DEEP DRAFT
FY18 CONTRACT SCHEDULES



Sabine-Neches Waterway

SABINE-NECHES WATERWAY – LOWER NECHES, PORT ARTHUR CANAL,TURNING BASIN, JUNCTION AREA AND TAYLORS BAYOU



Project:	Lower Neches, Port Arthur Canal, Turning Basin, Junction & Taylors Bayou
Dredging Depth:	42 ft. Required Depth
Dredging Width:	400 - 1200 ft.
Dredging Length:	Varies
Dredging Quantity:	2,000,000 cubic yards
Material Type:	Silt/Clay
Placement Area:	PA 13 - 17
Distance to Place Area:	1 - 3 Miles Avg.
Type of Equipment:	Pipeline
Env. Window:	NA
Reason for Window:	NA
Start Date:	June 28, 2018
Est. Completion Date:	January 26, 2019

SABINE-NECHES WATERWAY – LOWER NECHES, PORT ARTHUR CANAL,TURNING BASIN, JUNCTION AREA AND TAYLORS BAYOU

Project:	Lower Neches, Port Arthur Canal, Turning Basin, Junction & Taylors Bayou
Dredging Depth:	42 ft. Required Depth
Dredging Width:	400 - 1200 ft.
Dredging Length:	Varies
Dredging Quantity:	2,000,000 cubic yards
Material Type:	Silt/Clay
Placement Area:	PA 8 and PA 9
Distance to Place Area:	1.5 - 2 Miles Avg.
Type of Equipment:	Pipeline
Env. Window:	NA
Reason for Window:	NA
Start Date:	June 28, 2018
Est. Completion Date:	January 26, 2019

SABINE-NECHES WATERWAY
OUTER BAR AND BANK CHANNEL

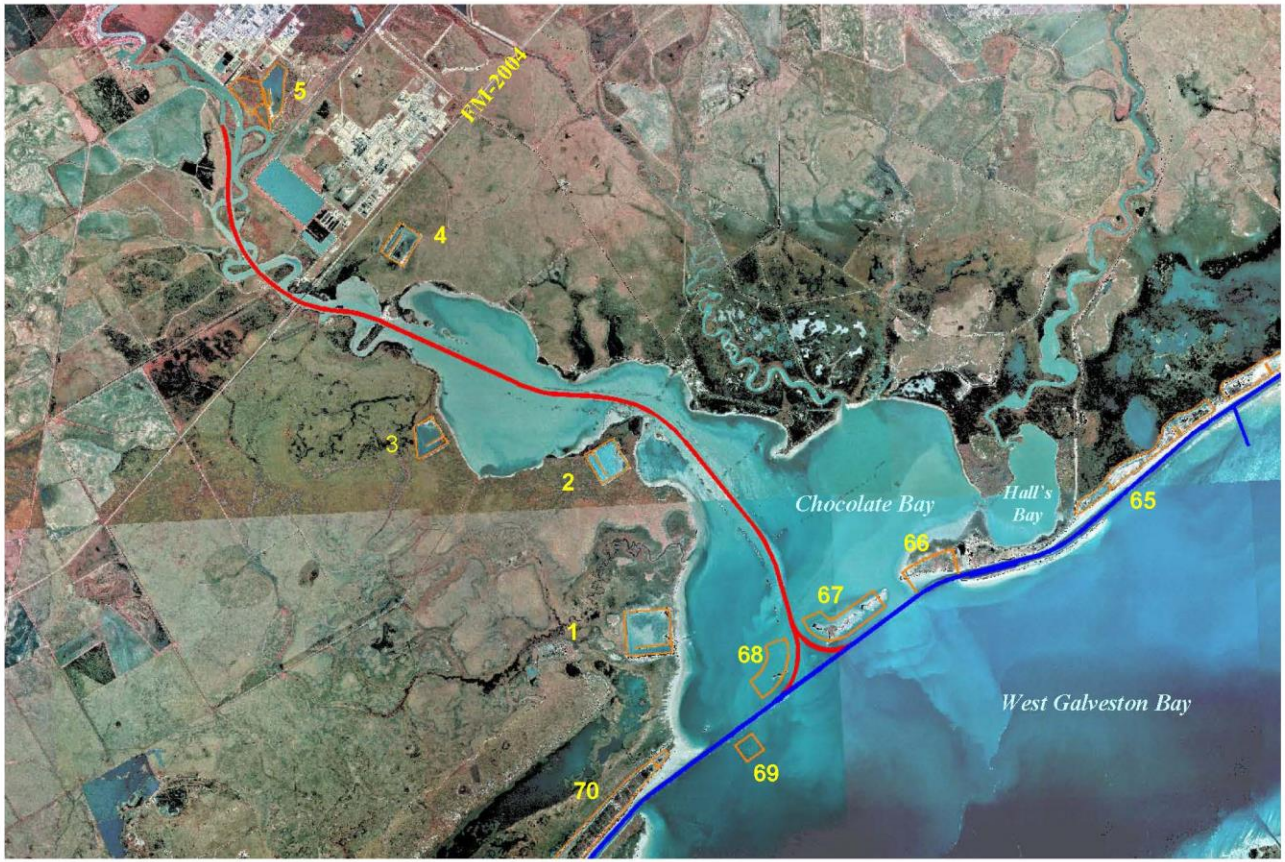
Project:	**Sabine Neches Waterway Outer Bar and Bank Channel**
Dredging Depth:	44 ft. Required Depth
Dredging Width:	800 ft.
Dredging Length:	Varies
Dredging Quantity:	3,000,000 cubic yards
Material Type:	Silt/Clay
Placement Area:	Offshore
Distance to Placement Area:	3 Mile Avg.
Type of Equipment:	Hopper
Env. Window	NA
Reason for Window:	NA
Start Date:	July 11, 2018
Est. Completion Date:	November 10, 2018

SABINE-NECHES WATERWAY
PLACEMENT AREA NO. 8 IMPROVEMENTS

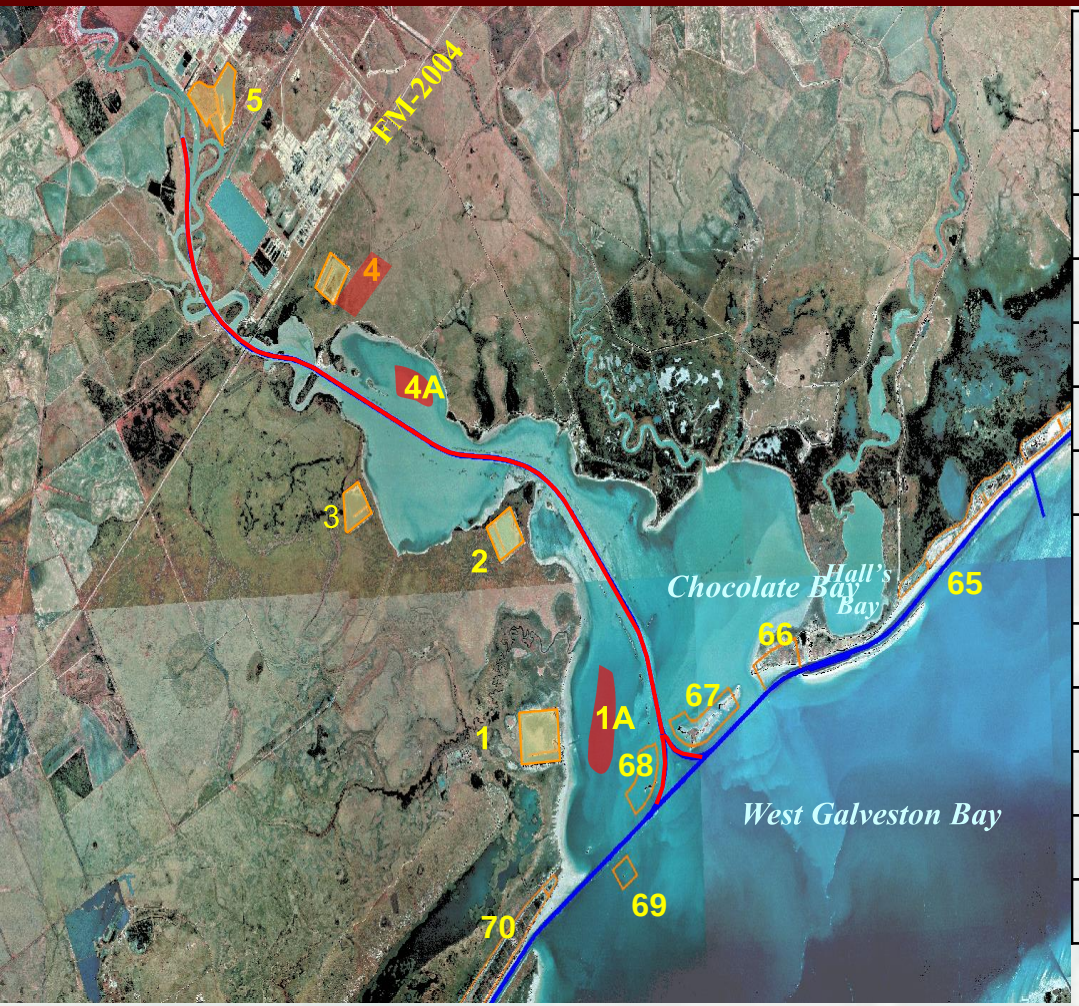
Project:	Sabine Neches Waterway Placement Area No. 8 Improvements
Type of Work:	Containment Dike Raise
Dredging Width:	NA
Dredging Length:	NA
Dredging Quantity:	NA
Material Type:	NA
Placement Area:	PA 8
Distance to Placement Area:	NA
Type of Equipment:	Excavators; Dozers; Marsh Buggy
Env. Window:	NA
Reason for Window:	NA
Start Date:	July 20, 2018
Est. Completion Date:	January 16, 2019

SHALLOW DRAFT – GIWW TRIBUTARIES
CHOCOLATE BAYOU

US Army Corps of Engineers®
Galveston District

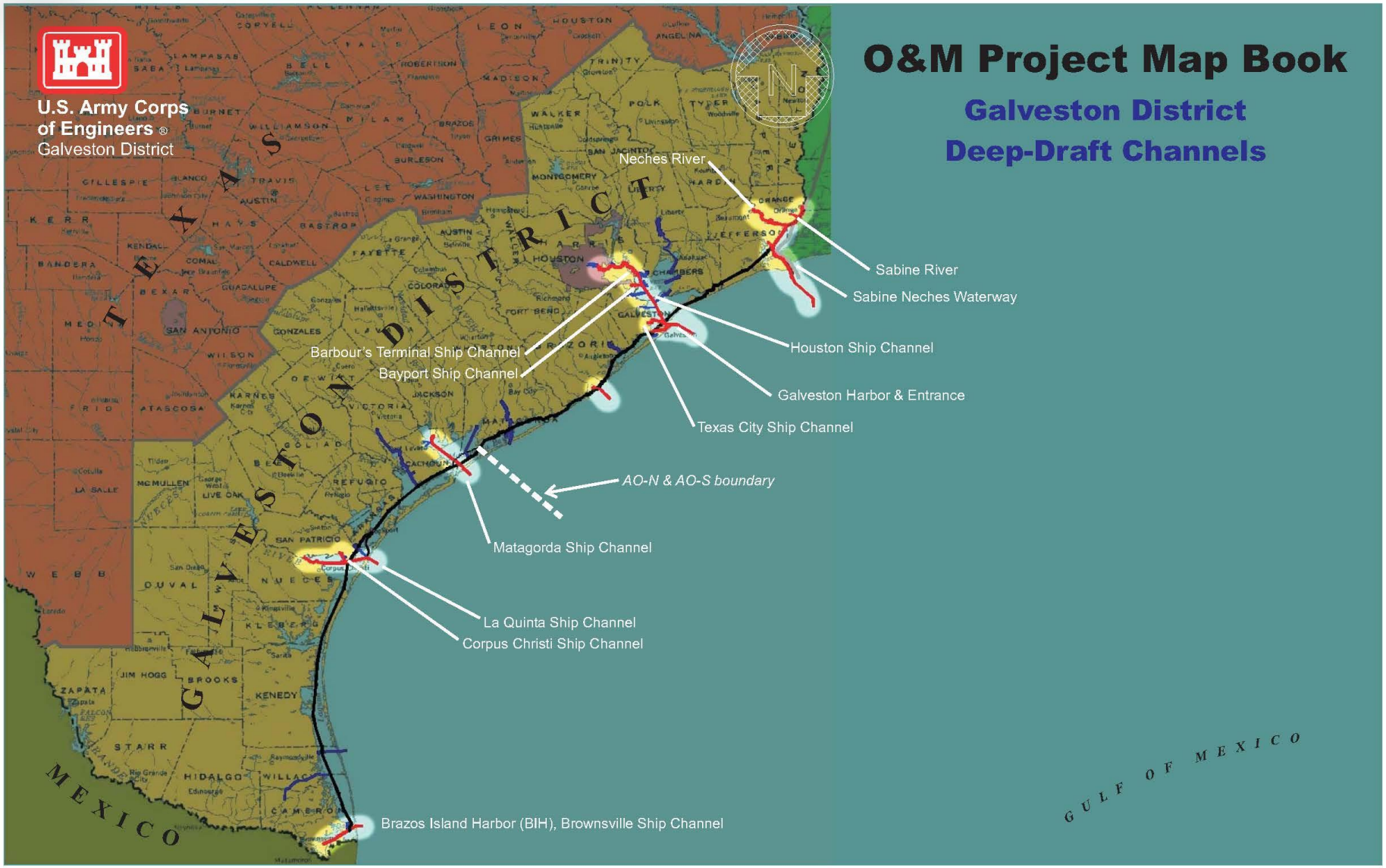


CHOCOLATE BAYOU



Project:	Chocolate Bayou
Dredging Depth:	15 ft. Required Depth
Dredging Width:	125 ft.
Dredging Length:	Varies
Dredging Quantity:	700,000 cubic yards
Material Type:	Silt/Sand
Placement Area:	BU / Upland Confined
Distance to Placement Area:	1.5 Mile Avg.
Type of Equipment:	Pipeline Dredge
Env. Window:	1 March – 31 August
Reason for Window:	Nesting birds at BU Site
Start Date:	June 11, 2018
Est. Completion Date:	February 6, 2019

DEEP DRAFT
FY19 PLANNED CONTRACT SCHEDULES



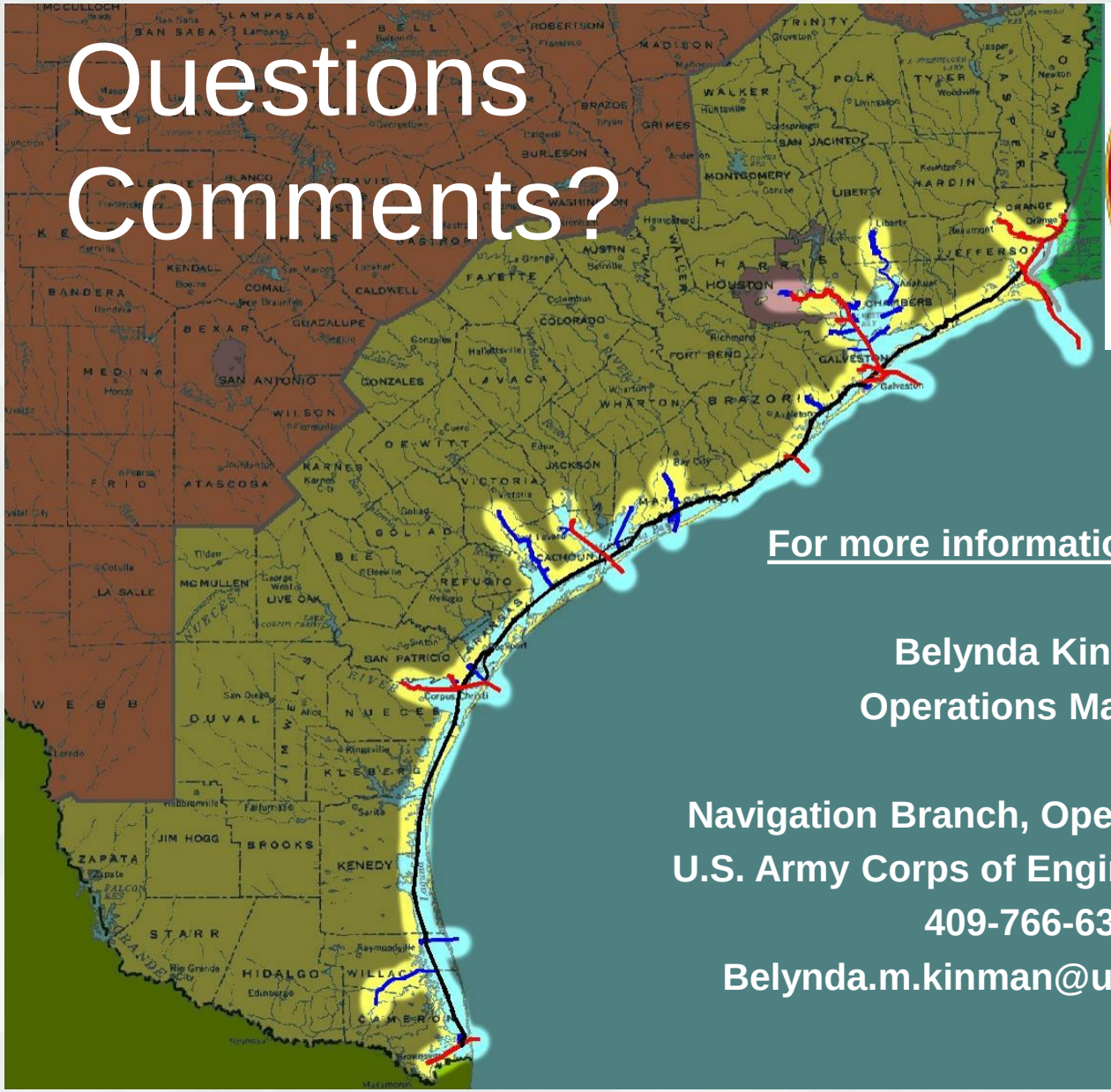
SABINE-NECHES WATERWAY
NECHES RIVER

Project:	Sabine-Neches Waterway Neches River
Dredging Depth:	42 ft. Required Depth
Dredging Width:	Varies
Dredging Length:	Varies
Dredging Quantity:	600,000 cubic yards
Material Type:	Silt
Placement Area:	Various Upland PAs
Distance to Placement Area:	1- 2 Miles
Type of Equipment:	Pipeline
Env. Window:	NA
Reason for Window:	NA
Award:	February 12, 2019

SABINE-NECHES WATERWAY
PORT ARTHUR CANAL,TURNING BASIN, JUNCTION AREA AND TAYLORS BAYOU

Project:	Sabine-Neches Waterway Port Arthur Canal, Turning Basin, Junction Area and Taylors Bayou
Dredging Depth:	42 ft. Required Depth
Dredging Width:	400 - 1200 ft.
Dredging Length:	Varies
Dredging Quantity:	2,000,000 cubic yards
Material Type:	Silt/Clay
Placement Area:	PA 8 and PA 9
Distance to Place Area:	1.5 - 2 Miles Avg.
Type of Equipment:	Pipeline
Env. Window:	NA
Reason for Window:	NA
Award:	September 10, 2019

Questions Comments?



For more information, contact:

Belynda Kinman
Operations Manager

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U.S. Army Corps of Engineers, Galveston
409-766-6323
Belynda.m.kinman@usace.army.mil

Galveston Harbor and Channel & Houston Ship Channel

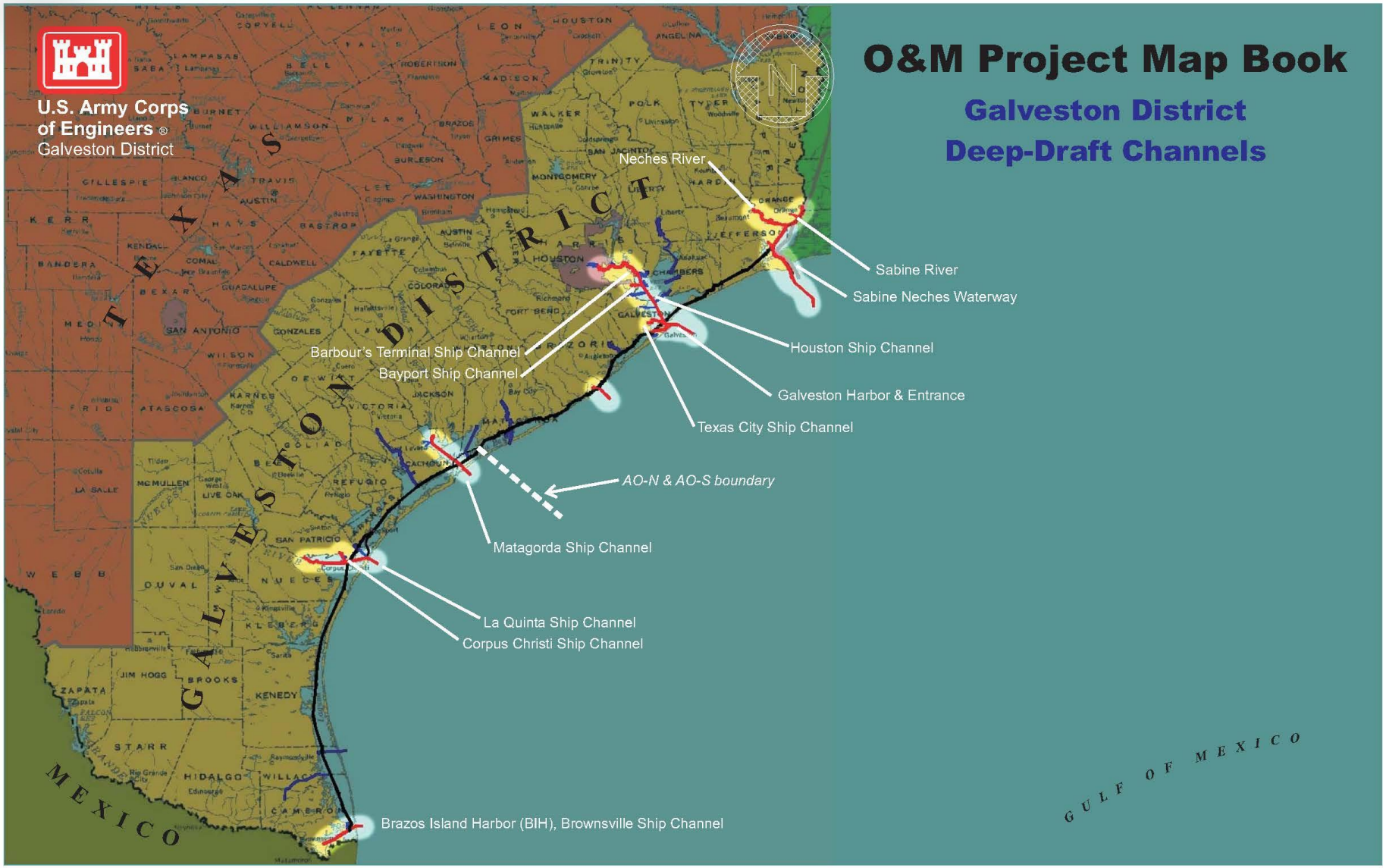
Tricia Campbell, P.E.
Operations Manager
Navigation Branch
31 October 2017

Galveston District – Dredging Meeting

Custodians of the Texas Coast

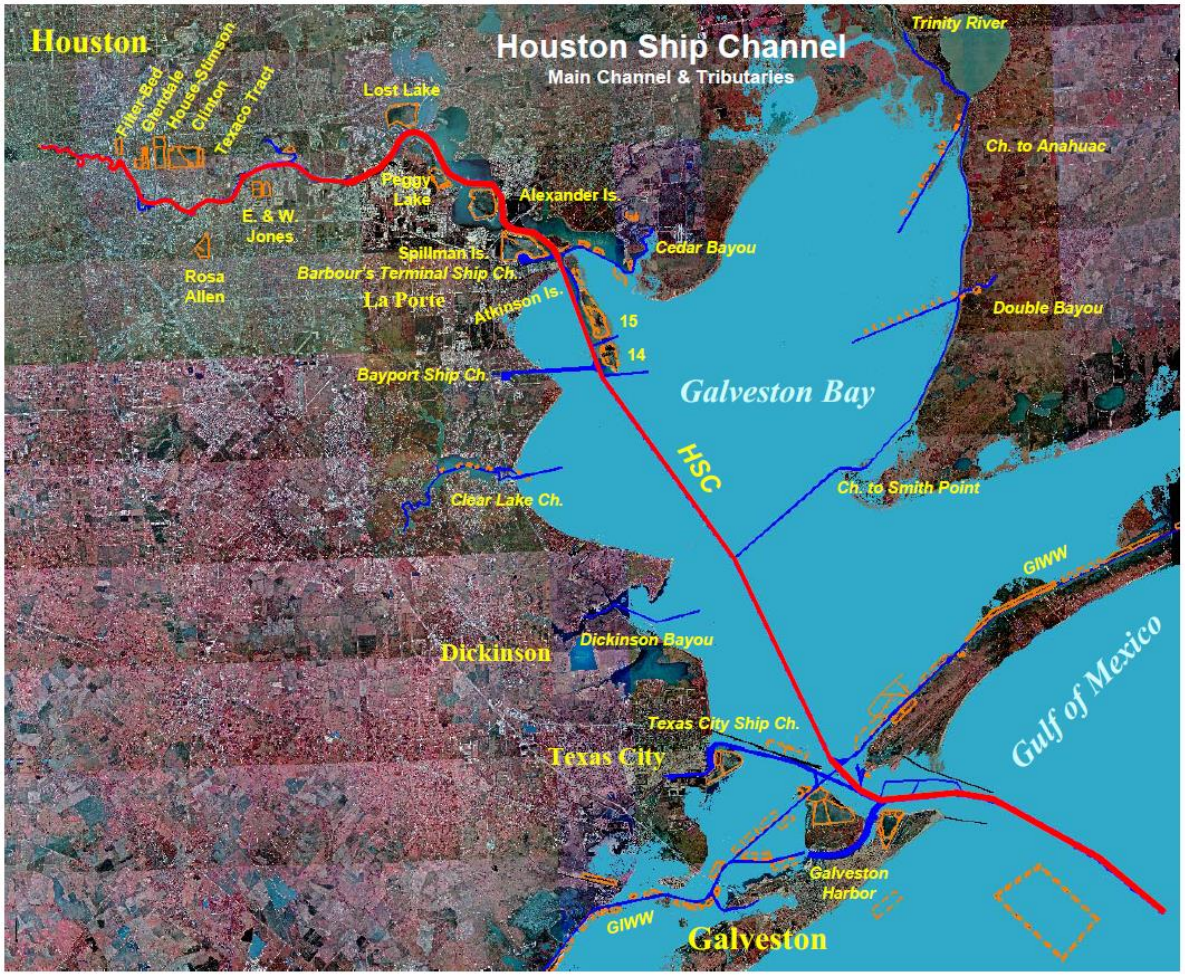
US Army Corps of Engineers
BUILDING STRONG®

DEEP DRAFT
FY18 CONTRACT SCHEDULES

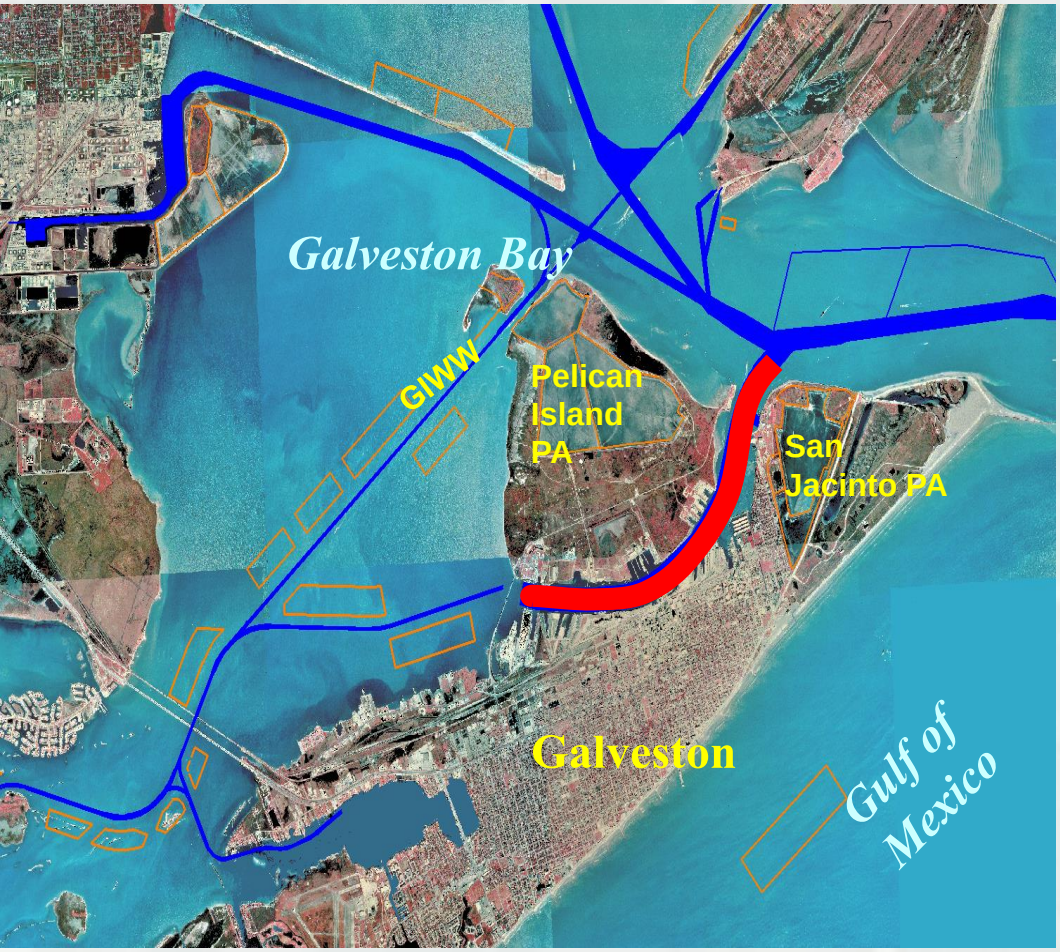


HOUSTON SHIP CHANNEL – GALVESTON HARBOR
TEXAS CITY SHIP CHANNEL

US Army Corps of Engineers®
Galveston District

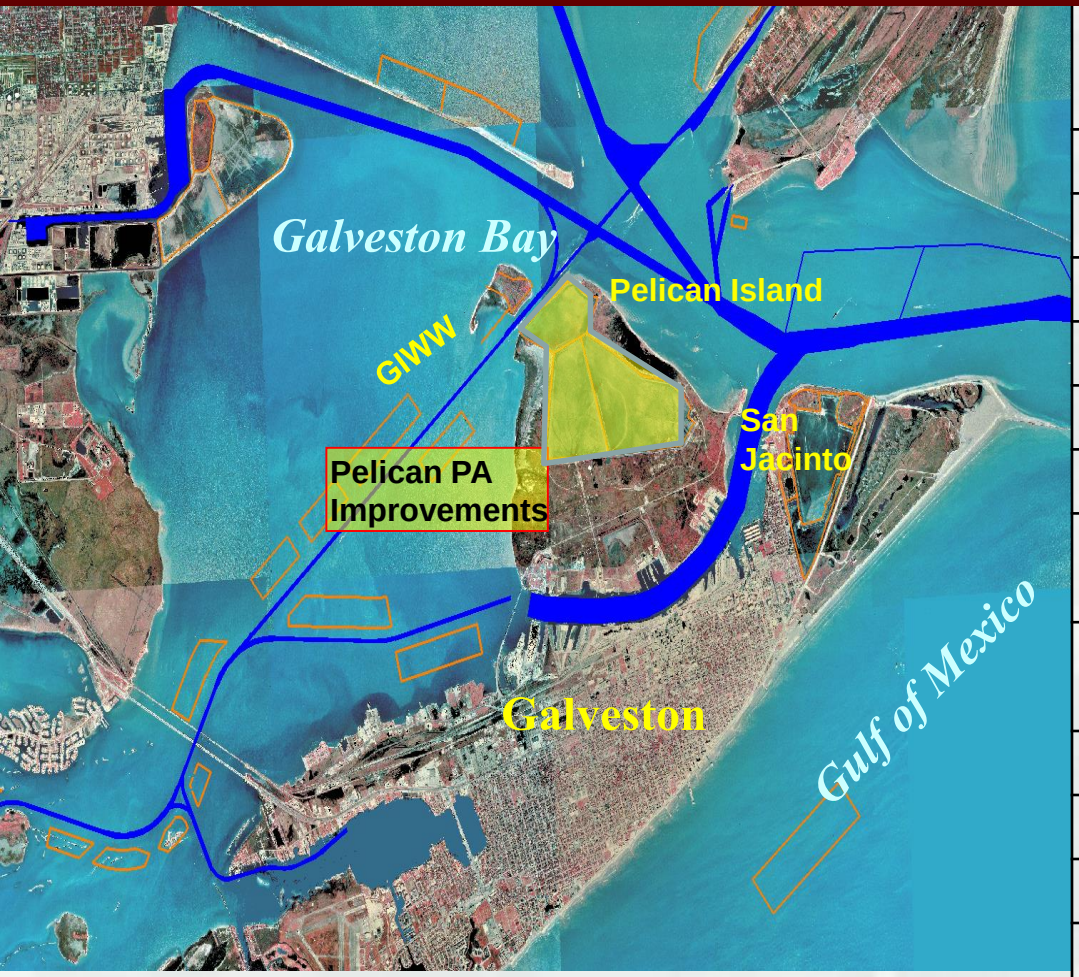


GALVESTON HARBOR



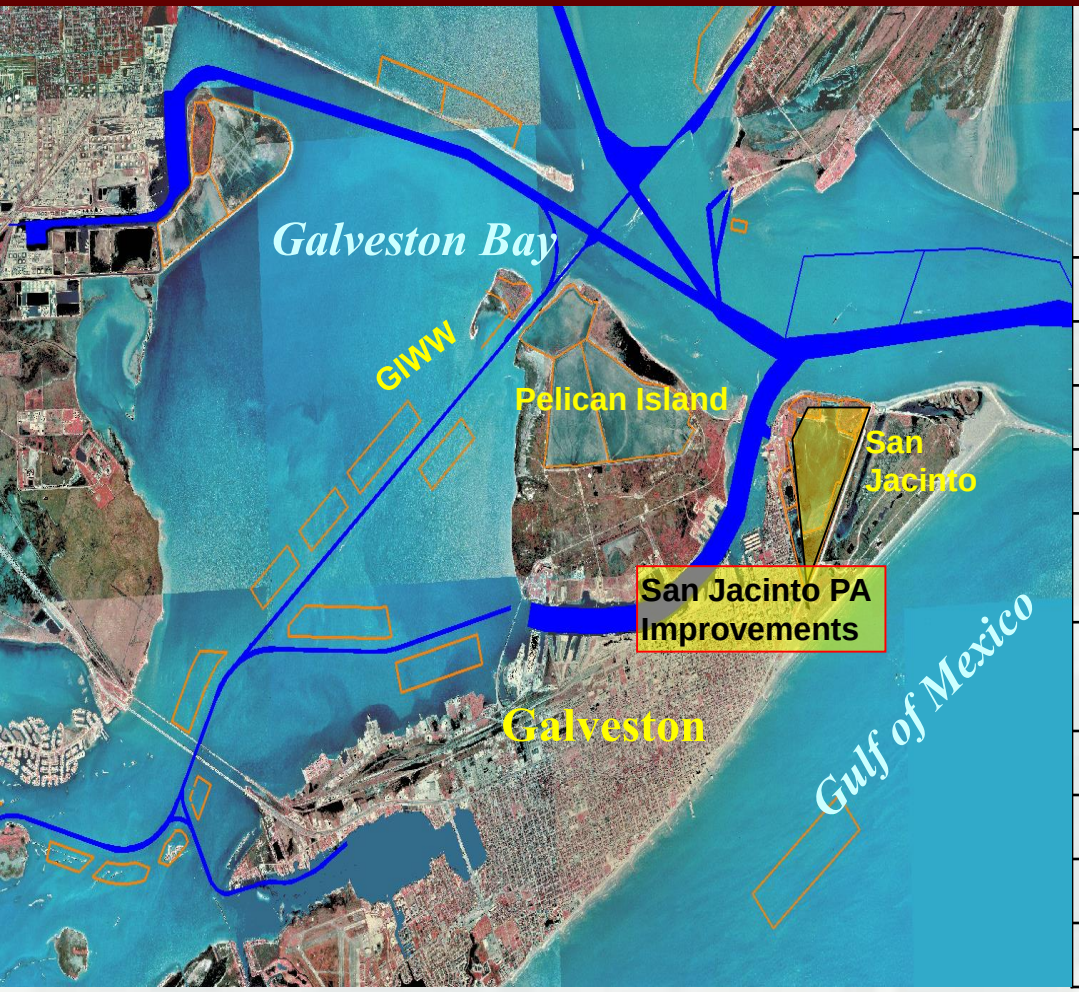
Project:	Galveston Harbor Channel
Dredging Depth:	41 - 46 ft. Required Depth
Dredging Width:	Varies
Dredging Length:	Varies
Dredging Quantity:	2,000,000 cubic yards
Material Type:	Silt
Placement Area:	Offshore
Distance to Place Area:	8 Miles Avg.
Type of Equipment:	Hopper Dredge
Env. Window:	NA
Reason for Window:	NA
Est. Start Date:	September 9, 2018
Est. Completion Date:	December 28, 2018

GALVESTON HARBOR – PELICAN ISLAND PLACEMENT AREA IMPROVEMENTS



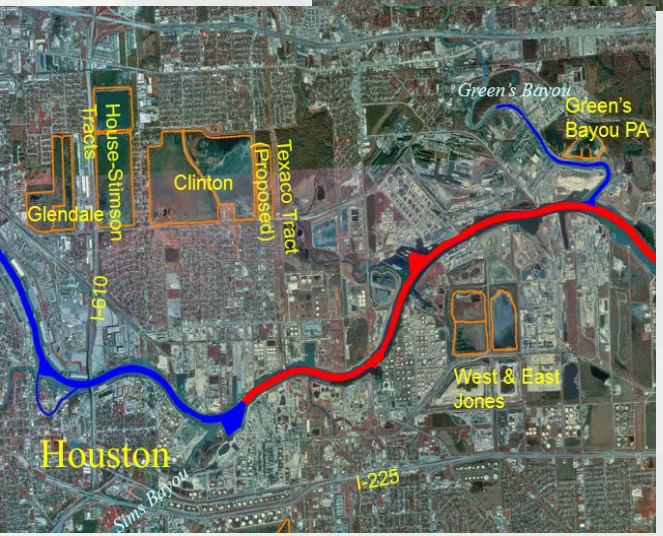
Project:	Galveston Harbor – Pelican Island Placement Area Improvements
Type of Work:	Improvements
Dredging Width:	NA
Dredging Length:	NA
Dredging Quantity:	NA
Material Type:	Silt/Clay
Placement Area:	Pelican Island
Distance to Place Area:	NA
Type of Equipment:	Marsh Buggy/Earthmoving Equipment
Env. Window:	NA
Reason for Window:	NA
Est. Start Date:	November 15, 2018
Est. Completion Date:	September 11, 2019

GALVESTON HARBOR – SAN JACINTO PLACEMENT AREA IMPROVEMENTS



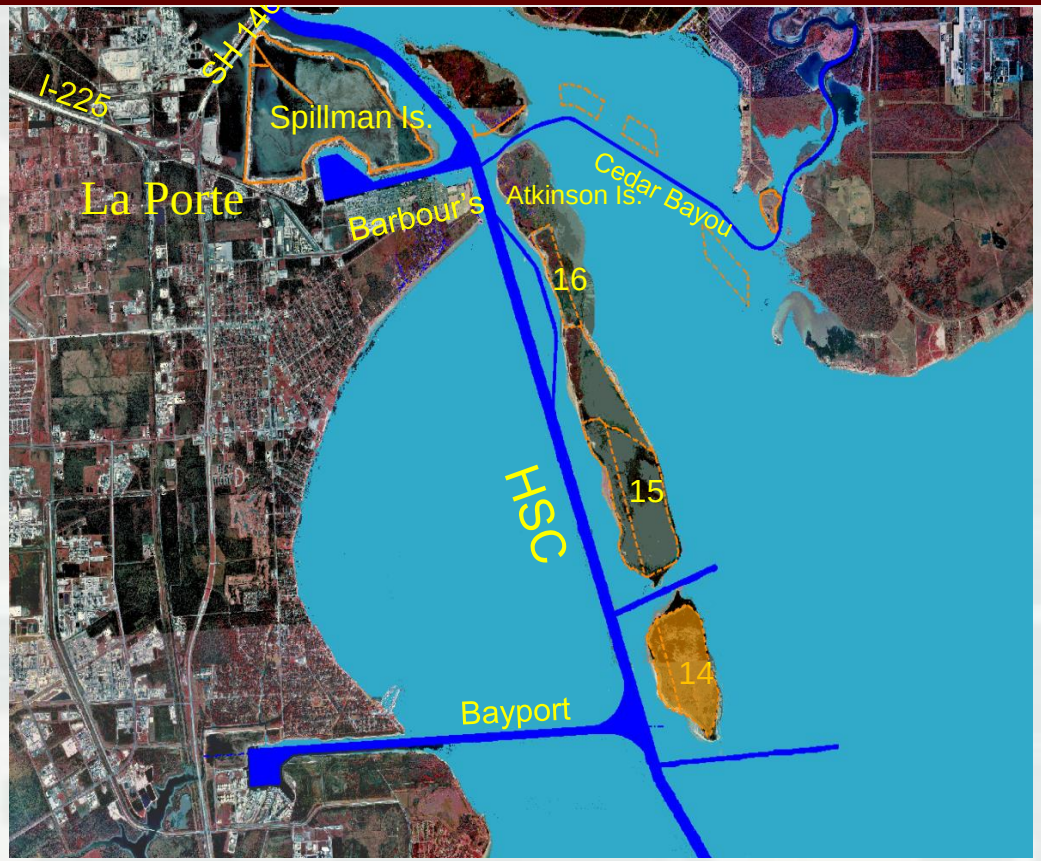
Project:	Galveston Harbor – San Jacinto Placement Area Improvements
Type of Work:	Improvements
Dredging Width:	NA
Dredging Length:	NA
Dredging Quantity:	NA
Material Type:	Silt/Clay
Placement Area:	San Jacinto
Distance to Place Area:	NA
Type of Equipment:	Marsh Buggy/Earthmoving Equipment
Env. Window:	NA
Reason for Window:	NA
Est. Start Date:	November 15, 2018
Est. Completion Date:	September 11, 2019

HOUSTON SHIP CHANNEL – CARPENTERS BAYOU TO SIMS BAYOU EMERGENCY DREDGING



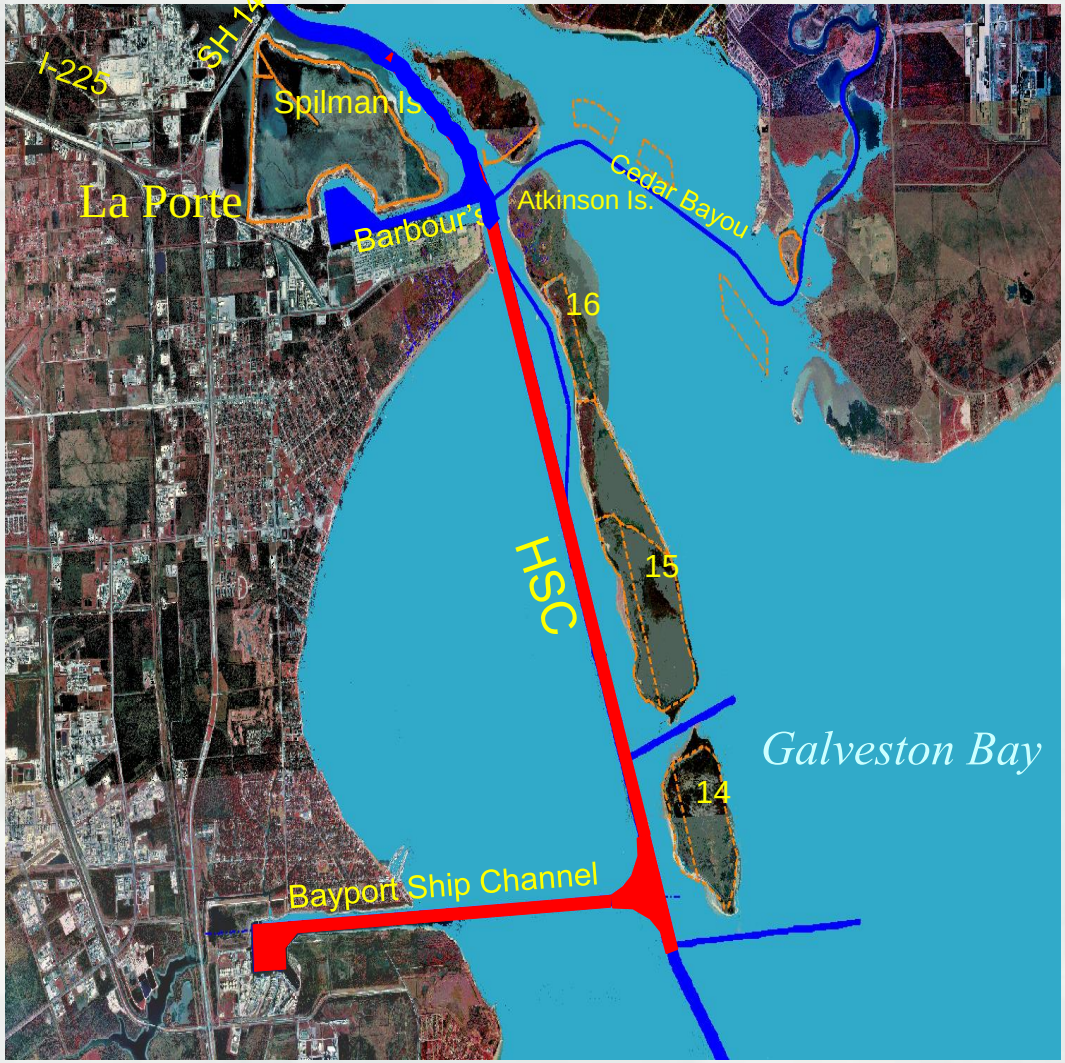
Project:	Houston Ship Channel Carpenters Bayou to Sims Bayou Emergency Dredging
Dredging Depth:	48 ft./43 ft. Required Depth
Dredging Width:	300 - 950 ft.
Dredging Length:	Varies
Dredging Quantity:	500,000 cubic yards
Material Type:	Silt
Placement Area:	Lost Lake & Rosa Allen
Distance to Place Area:	5 Miles
Type of Equipment:	Pipeline Dredge
Env. Window:	NA
Reason for Window:	NA
Est. Start Date:	February 10, 2018
Est. Completion Date:	July 30, 2018

HOUSTON SHIP CHANNEL
PLACEMENT AREA NO. 14 DEWATERING



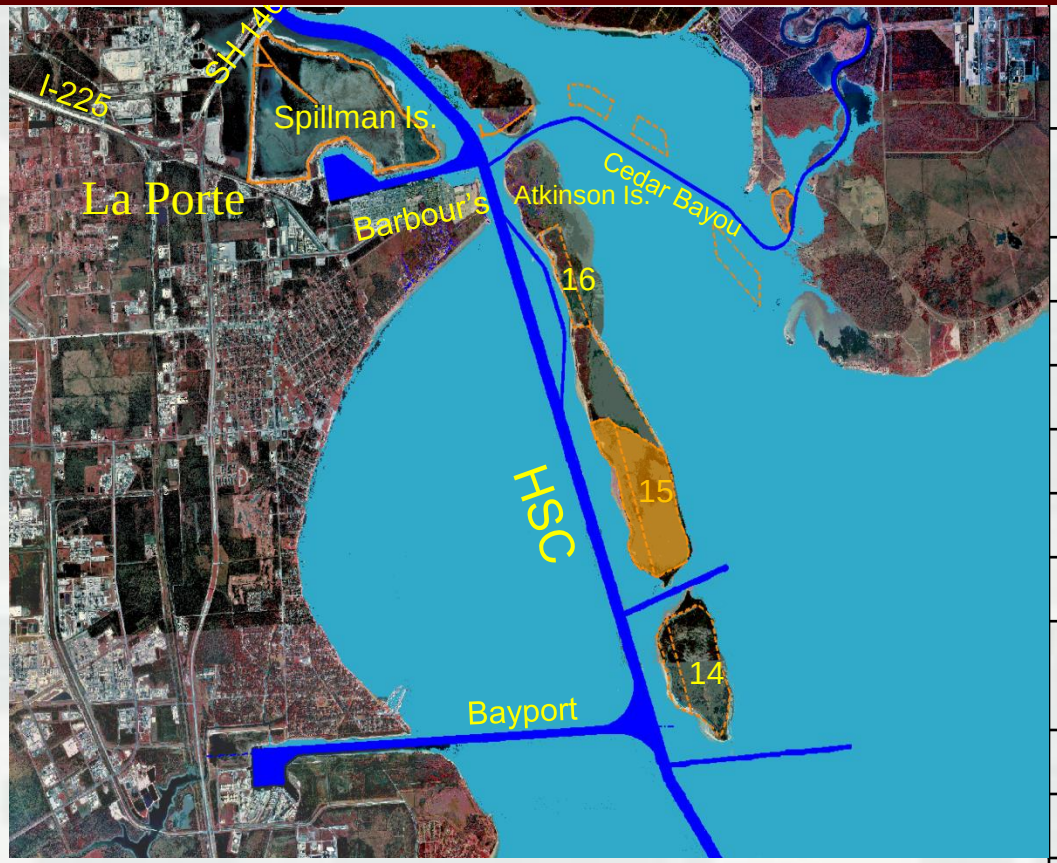
Project:	Houston Ship Channel Placement Area No. 14 Dewatering
Type of Work:	Placement Area Dewatering
Dredging Width:	NA
Dredging Length:	NA
Dredging Quantity:	NA
Material Type:	
Placement Area:	PA 14
Distance to Place Area:	NA
Type of Equipment:	Marsh Buggy/Earthmoving Equipment
Env. Window:	NA
Reason for Window:	NA
Est. Start Date:	August 31, 2018
Est. Completion Date:	February 27, 2019

HOUSTON SHIP CHANNEL – BAYPORT TO MORGANS AND BAYPORT



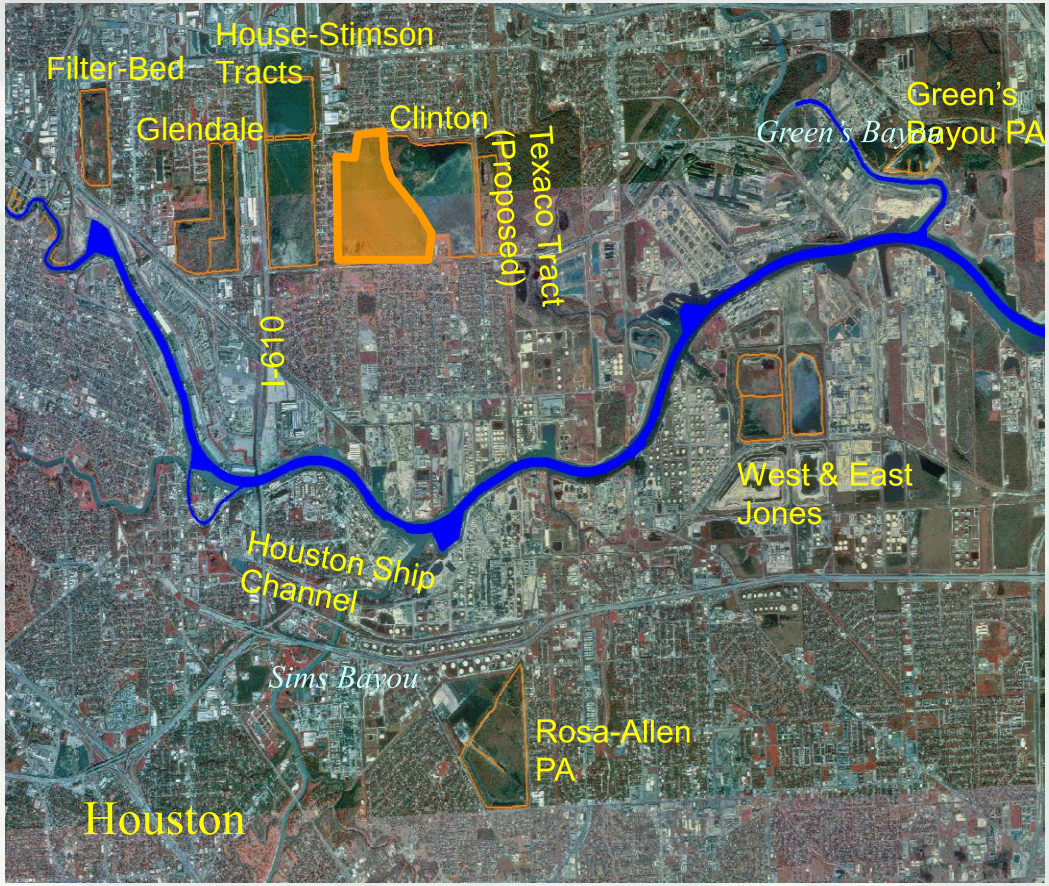
Project:	Houston Ship Channel Bayport Flare and Bayport to Morgan's Point
Dredging Depth:	48 ft. Required Depth
Dredging Width:	300 - 530 ft.
Dredging Length:	Varies
Dredging Quantity:	2,000,000 cubic yards
Material Type:	Silt
Placement Area:	PA14 and 15; Marsh Cells
Distance to Place Area:	4 Mile Avg.
Type of Equipment:	Pipeline Dredge
Env. Window:	NA
Reason for Window:	NA
Est. Start Date:	August 31, 2018
Est. Completion Date:	May 28, 2019

HOUSTON SHIP CHANNEL - PLACEMENT AREA NO. 15
SPILLBOX REPAIR & DEWATERING



Project:	**Houston Ship Channel - Placement Area No. 15 Spillbox Repair & Dewatering**
Type of Work:	Spillbox Repair/Dewatering
Dredging Width:	NA
Dredging Length:	NA
Dredging Quantity:	NA
Material Type:	
Placement Area:	PA 15
Distance to Place Area:	NA
Type of Equipment:	Crane/Earthmoving equipment
Env. Window:	NA
Reason for Window:	NA
Est. Start Date:	October 11, 2018
Est. Completion Date:	April 9, 2019

HOUSTON SHIP CHANNEL – WEST CLINTON PLACEMENT AREA IMPROVEMENTS

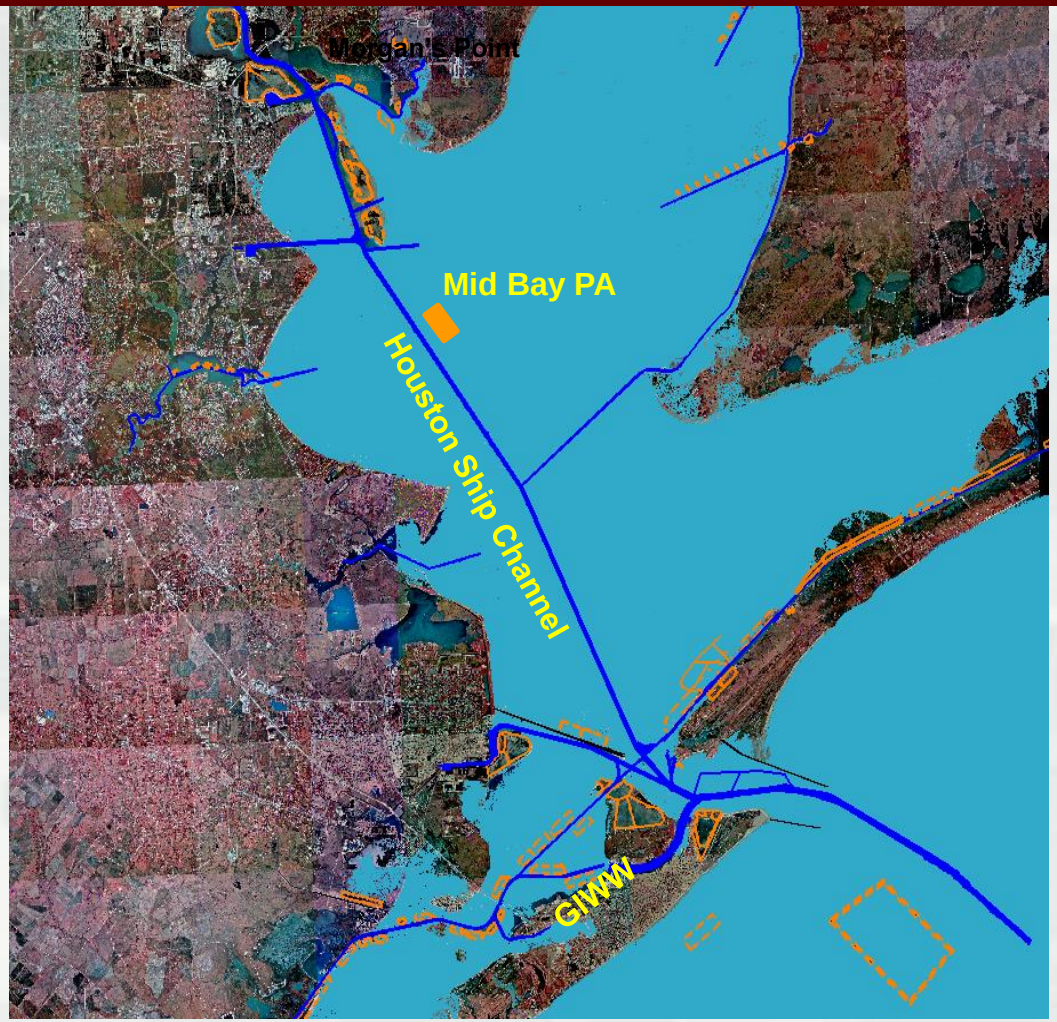


Project:	**Houston Ship Channel West Clinton Improvements**
Type of Work:	Containment Dike Raising
Dredging Width:	NA
Dredging Length:	NA
Dredging Quantity:	NA
Material Type:	NA
Placement Area:	West Clinton
Distance to Place Area:	NA
Type of Equipment:	Dragline/Earthmoving Equipment
Env. Window:	NA
Reason for Window:	NA
Est. Start Date:	October 5, 2018
Est. Completion Date:	October 5, 2019

HOUSTON SHIP CHANNEL
MORGAN'S POINT TO EXXON

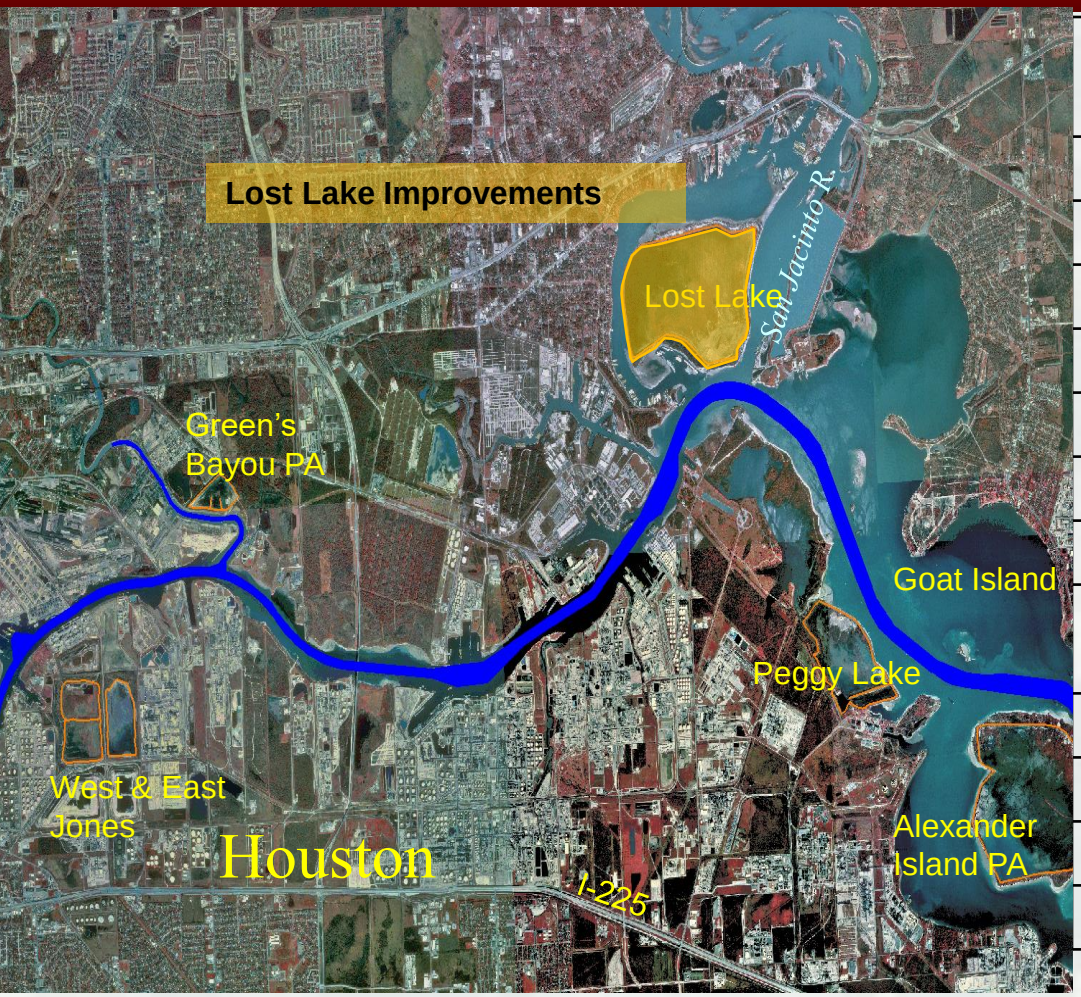
Project:	**Houston Ship Channel - Morgan's Point to Exxon**
Dredging Depth:	48 ft. Required Depth
Dredging Width:	530 – 600 ft.
Dredging Length:	Varies
Dredging Quantity:	1,400,000 cubic yards
Material Type:	Silt
Placement Area:	Alexander Island
Distance to Place Area:	3 Mile Avg.
Type of Equipment:	Pipeline
Env. Window:	NA
Est. Start Date:	October 26, 2018
Est. Completion Date:	July 23, 2019

HOUSTON SHIP CHANNEL
MID BAY PLACEMENT AREA IMPROVEMENTS



Project:	**Houston Ship Channel Mid Bay PA Improvements**
Type of Work:	Containment Dike Raising
Dredging Width:	NA
Dredging Length:	NA
Dredging Quantity:	NA
Material Type:	Silt/Clay
Placement Area:	Mid Bay
Distance to Place Area:	NA
Type of Equipment:	Marsh Buggy/ Excavation Equipment
Env. Window:	August 31-March 1 (open)
Reason for Window:	Migratory Birds
Est. Start Date:	November 3, 2018
Est. Completion Date:	August 30, 2019

HOUSTON SHIP CHANNEL
LOST LAKE PA IMPROVEMENT

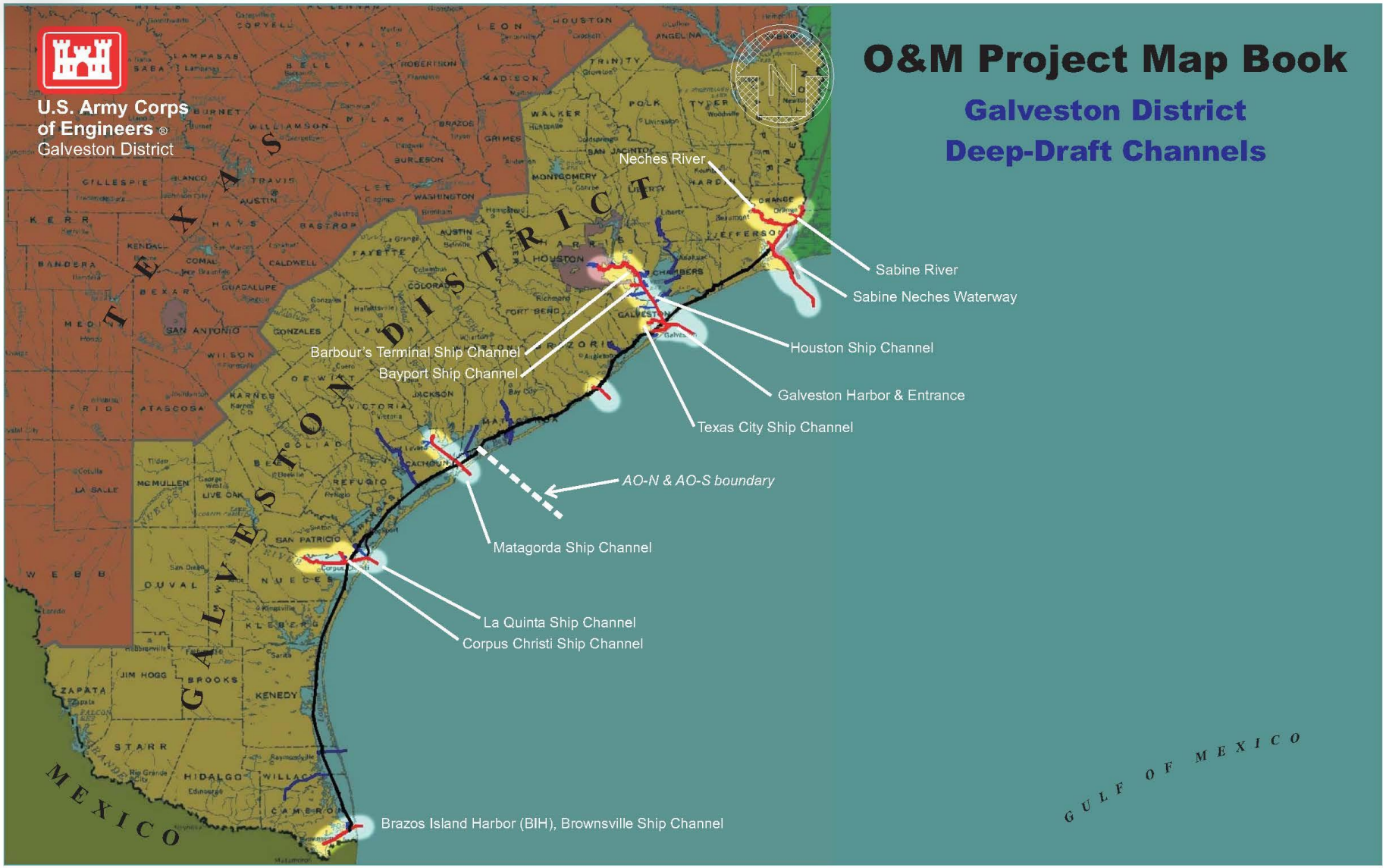


Project:	Houston Ship Channel Lost Lake PA Improvements
Type of Work:	Containment Dike Raising
Dredging Width:	NA
Dredging Length:	NA
Dredging Quantity:	NA
Material Type:	Silt/Clay
Placement Area:	NA
Distance to Place Area:	NA
Type of Equipment:	Marsh Buggy/ Excavation Equipment
Env. Window:	NA
Reason for Window:	NA
Est. Start Date:	November 12, 2018
Est. Completion Date:	November 7, 2019

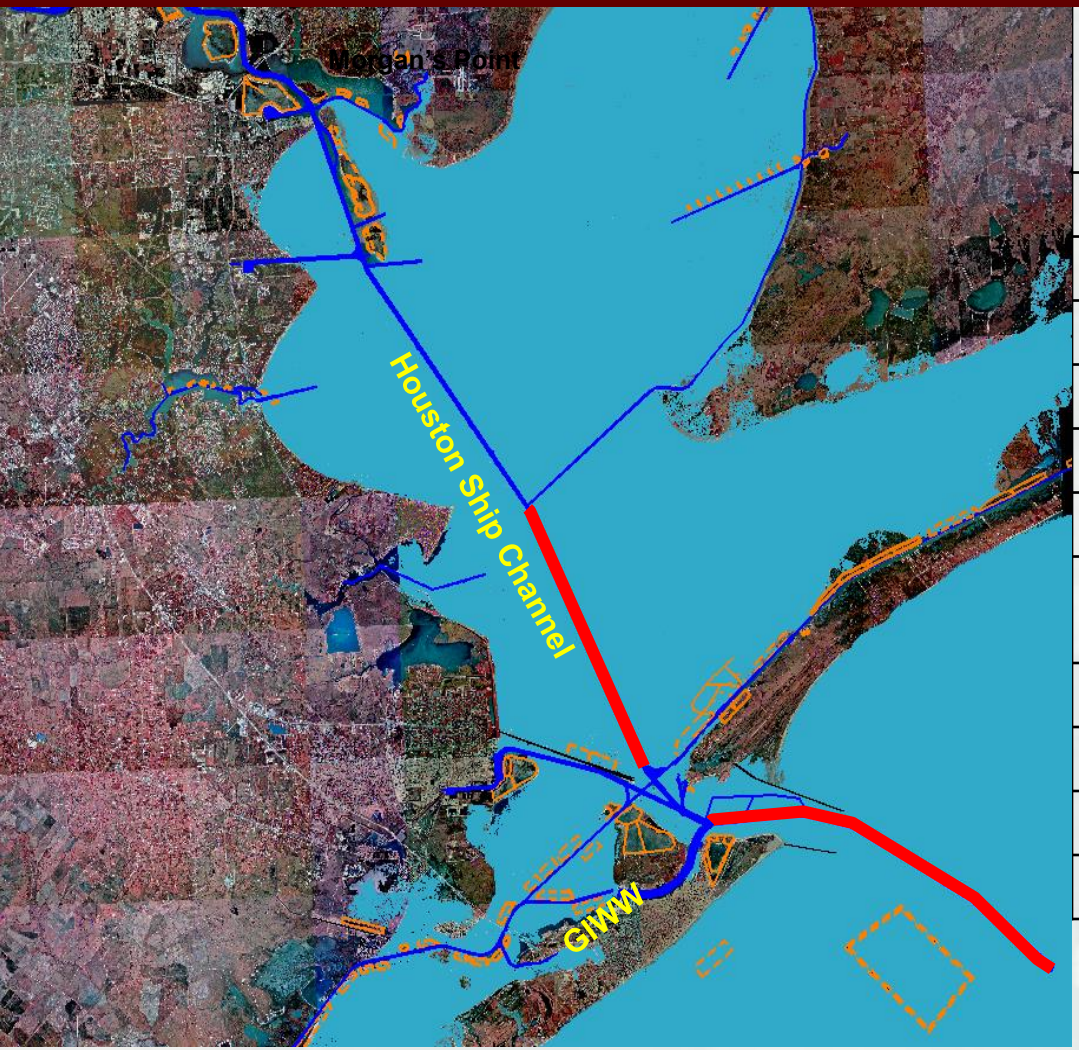
HOUSTON SHIP CHANNEL
ALEXANDER ISLAND PA IMPROVEMENTS

Project:	Houston Ship Channel Alexander Island Improvements
Type of Work:	Dike Raising
Dredging Width:	NA
Dredging Length:	NA
Dredging Quantity:	NA
Material Type:	Silt/Clay
Placement Area:	Alexander Island PA
Distance to Place Area:	NA
Type of Equipment:	Marsh Buggy/ Excavation Equipment
Env. Window:	NA
Reason for Window:	NA
Est. Start Date:	November 15, 2018
Est. Completion Date:	September 11, 2019

DEEP DRAFT
FY19 PLANNED CONTRACT SCHEDULES

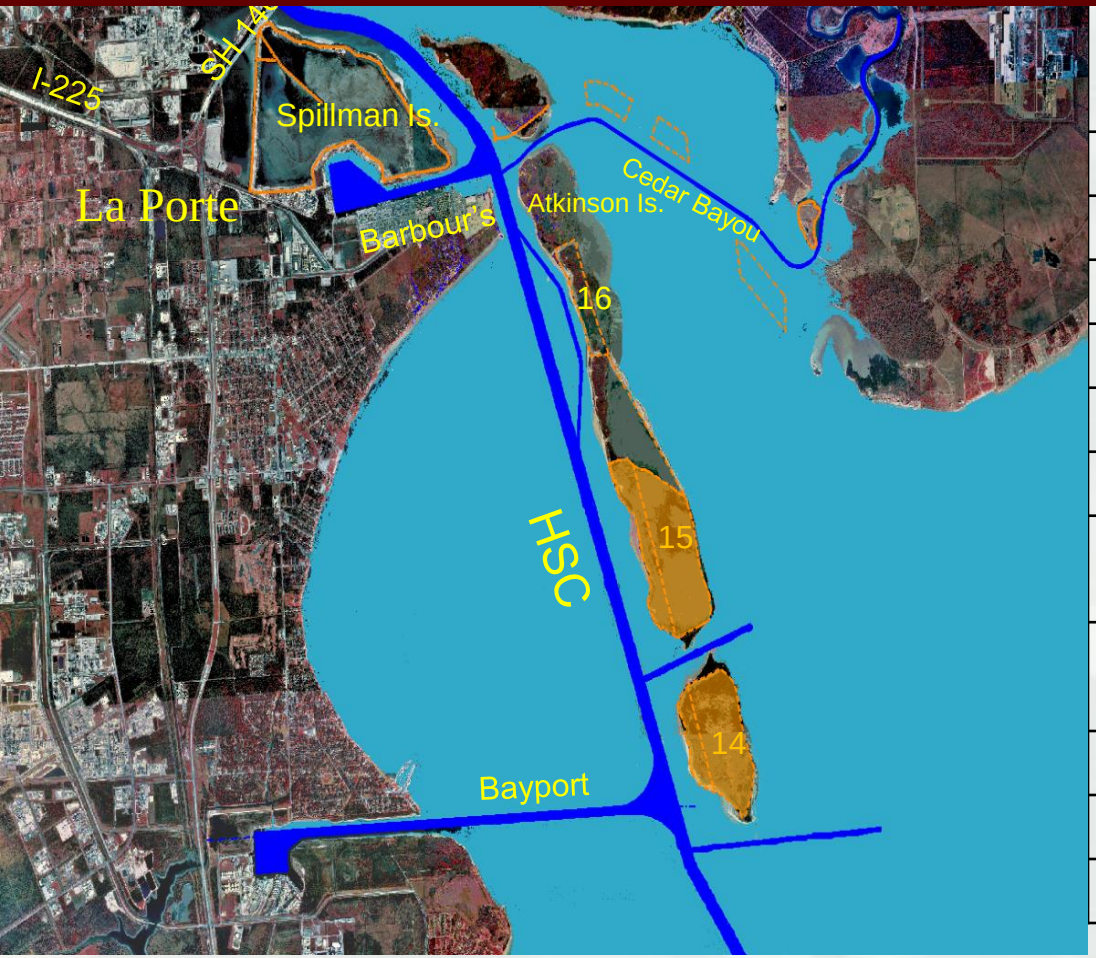


GALVESTON HARBOR - GALVESTON ENTRANCE CHANNEL AND HSC - BOLIVAR ROADS TO REDFISH



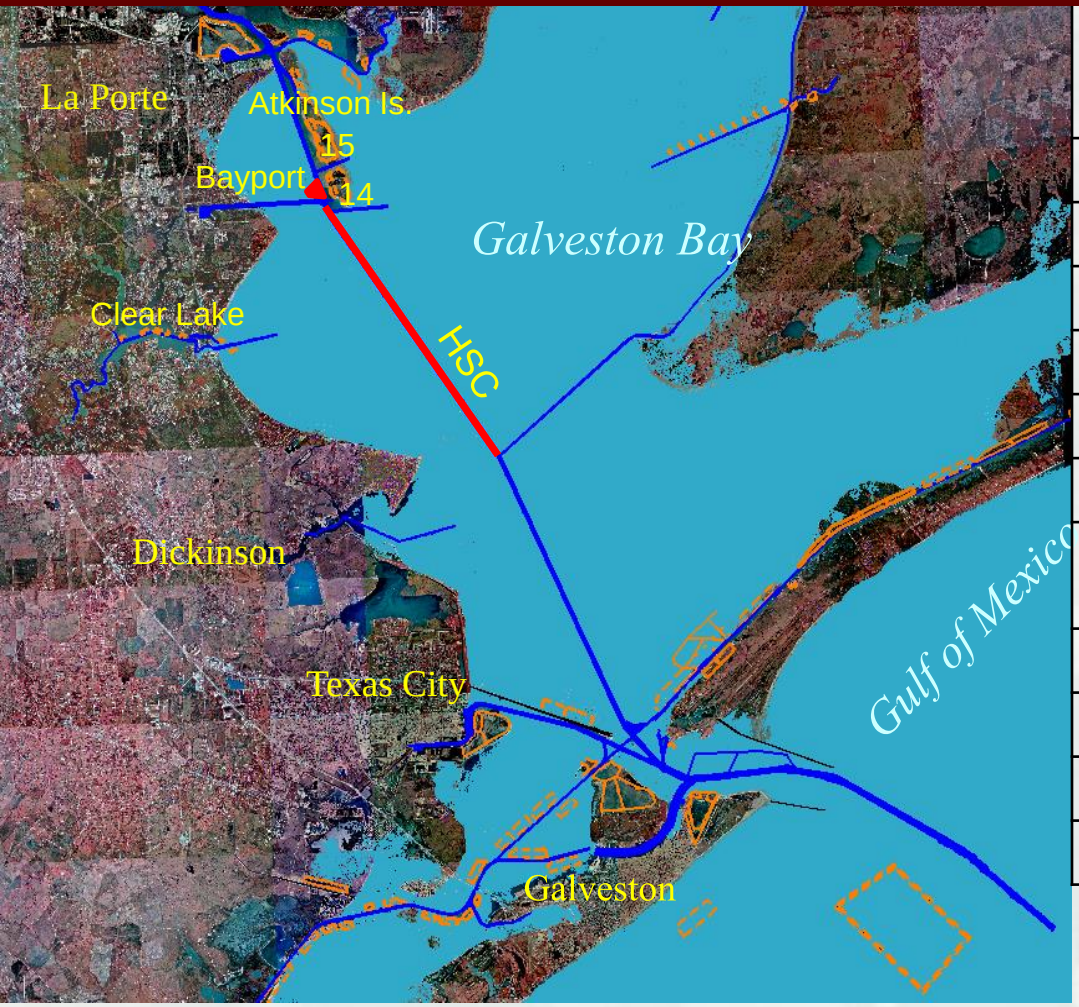
Project:	Galveston Harbor - Galveston Entrance Channel and Houston Ship Channel - Bolivar Roads to Redfish
Dredging Depth:	48 - 50 ft. Required Depth
Dredging Width:	530 – 1,000 ft.
Dredging Length:	17 miles
Dredging Quantity:	2,000,000 cubic yards
Material Type:	Sand / Silt
Placement Area:	Offshore
Distance to Place Area:	1 - 15 Mile
Type of Equipment:	Hopper
Env. Window:	NA
Reason for Window:	NA
Award:	January 15, 2019

HOUSTON SHIP CHANNEL – PLACEMENT AREA NO. 14 & 15 DIKE RAISE



Project:	Houston Ship Channel Placement Area No. 14 & 15 Dike Raise
Type of Work:	Containment Dike Raising
Dredging Width:	NA
Dredging Length:	NA
Dredging Quantity:	NA
Material Type:	
Placement Area:	PA 14 & 15
Distance to Place Area:	NA
Type of Equipment:	Crane/Earthmoving equipment
Env. Window:	NA
Reason for Window:	NA
Award:	October 15, 2018

HOUSTON SHIP CHANNEL – REDFISH TO BEACON 78 WITH BAYPORT FLARE

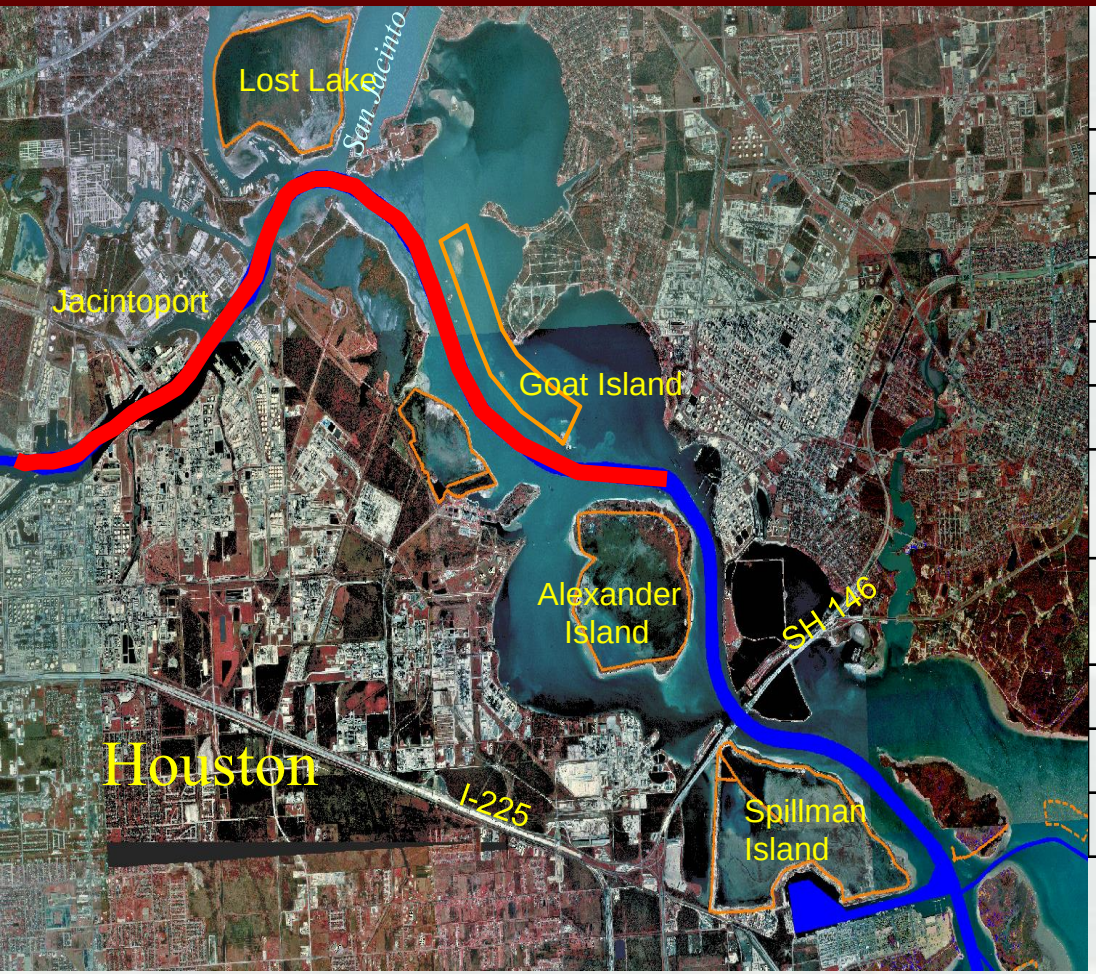


Project:	Houston Ship Channel Redfish to Beacon 78 with Bayport Flare
Dredging Depth:	48 ft. Required Depth
Dredging Width:	530 ft.
Dredging Length:	Varies
Dredging Quantity:	2,000,000 cubic yards
Material Type:	Sand
Placement Area:	Offshore
Distance to Place Area:	Varies
Type of Equipment:	Hopper
Env. Window:	NA
Reason for Window:	NA
Award:	February 15, 2019

HOUSTON SHIP CHANNEL – BOGGY BAYOU TO GREENS BAYOU AND GREENS BAYOU

Project:	Houston Ship Channel Boggy Bayou to Greens Bayou and Greens Bayou
Dredging Depth:	38 - 43 ft. Required Depth
Dredging Width:	300 ft.
Dredging Length:	Varies
Dredging Quantity:	1,000,000 cubic yards
Material Type:	Silt
Placement Area:	Lost Lake/Clinton
Distance to Place Area:	5 Miles
Type of Equipment:	Pipeline
Env. Window:	NA
Reason for Window:	NA
Est. Start Date:	March 15, 2019

HOUSTON SHIP CHANNEL – EXXON TO BOGGY BAYOU AND JACINTOPORT

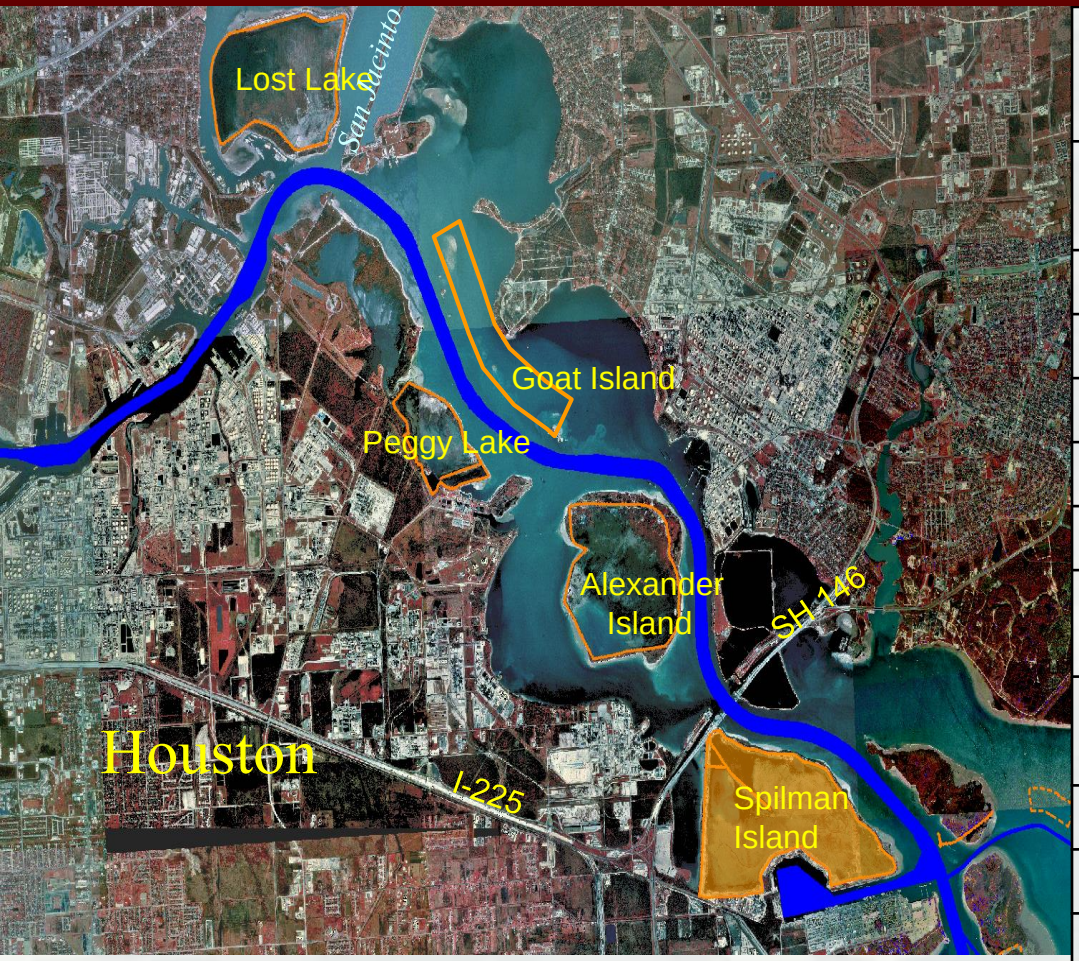


Project:	Houston Ship Channel Exxon to Boggy Bayou and Jacintoport
Dredging Depth:	48 ft. Required Depth
Dredging Width:	300 ft.
Dredging Length:	Varies
Dredging Quantity:	1,500,000 cubic yards
Material Type:	Silt
Placement Area:	Lost Lake PA and Peggy Lake PA
Distance to Place Area:	3 Mile Avg.
Type of Equipment:	Pipeline Dredge
Env. Window:	NA
Award:	May 30, 2019

HOUSTON SHIP CHANNEL – SIMS BAYOU TO TURNING BASIN AND LIGHT DRAFT CHANNEL

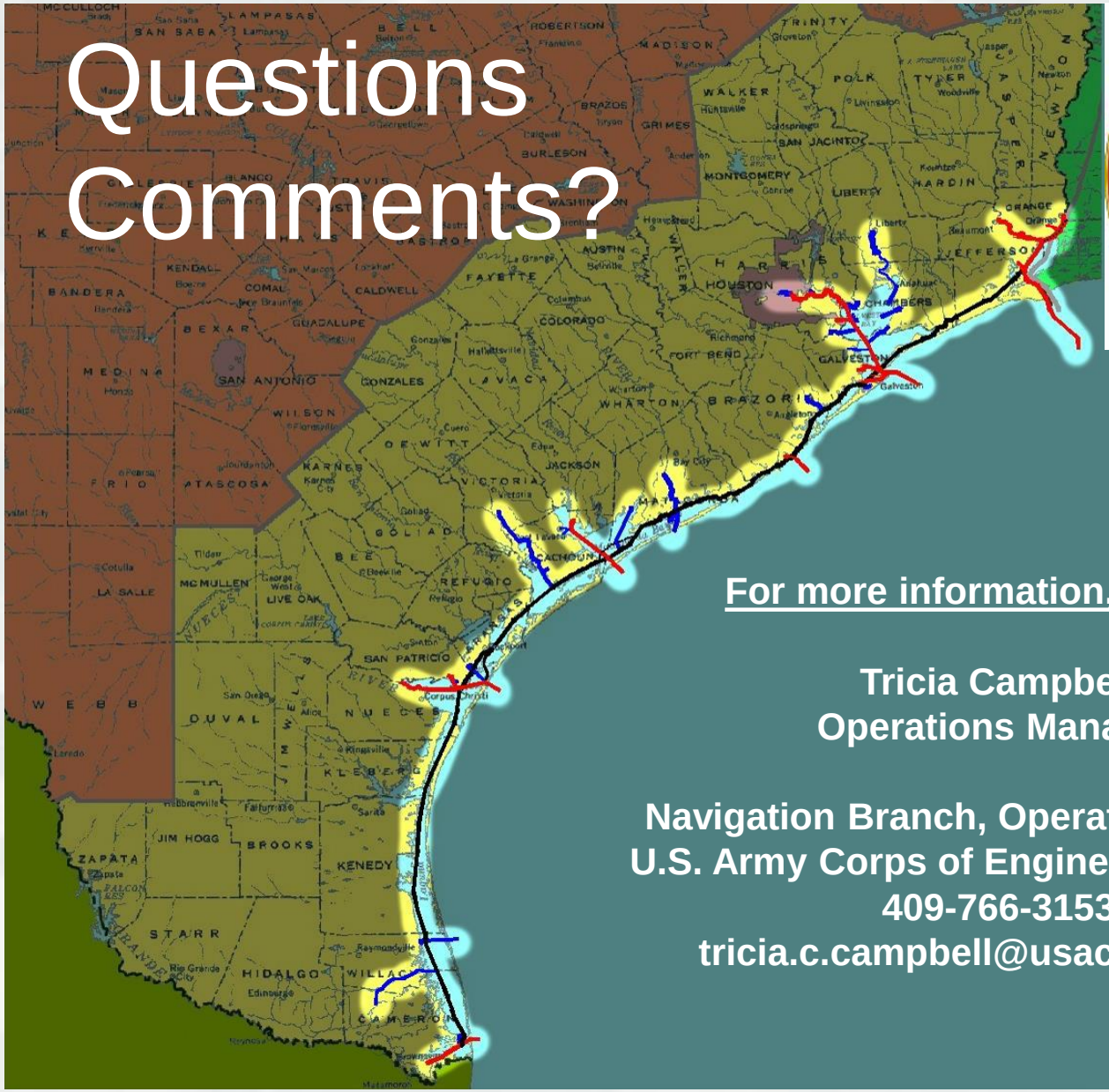
Project:	**Houston Ship Channel – Sims Bayou to Turning Basin and Light Draft Channel**
Dredging Depth:	HSC 39 ft. Required Depth Light Draft 11 ft. Required
Dredging Width:	530 – 1,000 ft.
Dredging Length:	17 miles
Dredging Quantity:	1,500,000 cubic yards
Material Type:	Sand / Silt
Placement Area:	House Tract
Distance to Place Area:	7 Miles
Type of Equipment:	Pipeline
Env. Window:	NA
Reason for Window:	NA
Est. Start Date:	September 30, 2019

HOUSTON SHIP CHANNEL – SPILMAN ISLAND PA DEWATERING



Project:	Houston Ship Channel Spilman Island PA Dewatering
Type of Work:	Placement Area Dewatering
Dredging Width:	NA
Dredging Length:	NA
Dredging Quantity:	NA
Material Type:	Silt/Clay
Placement Area:	Spilman Island
Distance to Place Area:	NA
Type of Equipment:	Dragline/Earthmoving equipment
Env. Window:	NA
Reason for Window:	NA
Award:	September 30, 2019

Questions Comments?



For more information, contact:

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409-766-3153
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Freeport Harbor &
Matagorda Ship Channel

Aron Edwards
Operations Manager
Navigation Branch
31 October 2017

Galveston District – Dredging Meeting

Custodians of the Texas Coast

US Army Corps of Engineers
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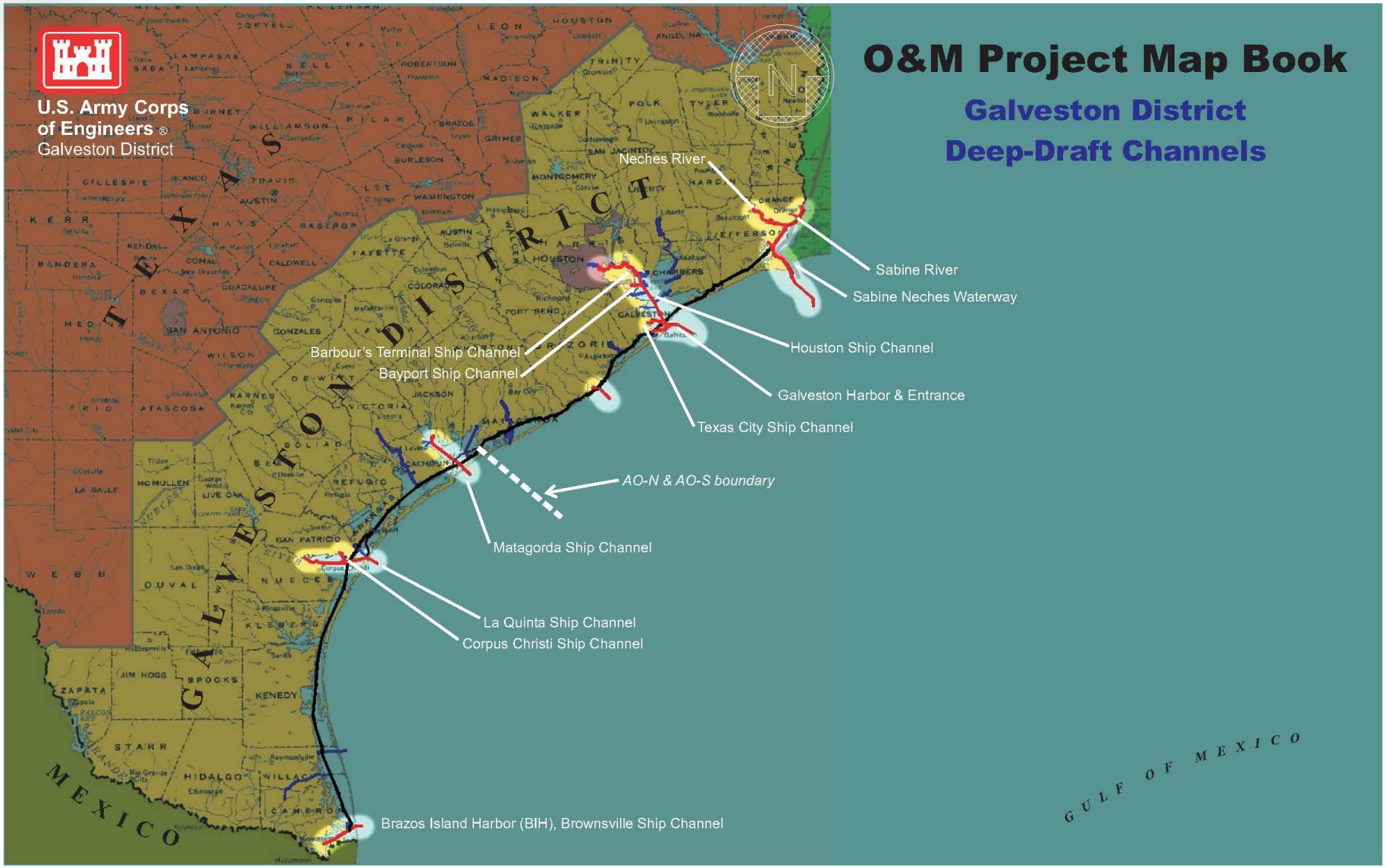
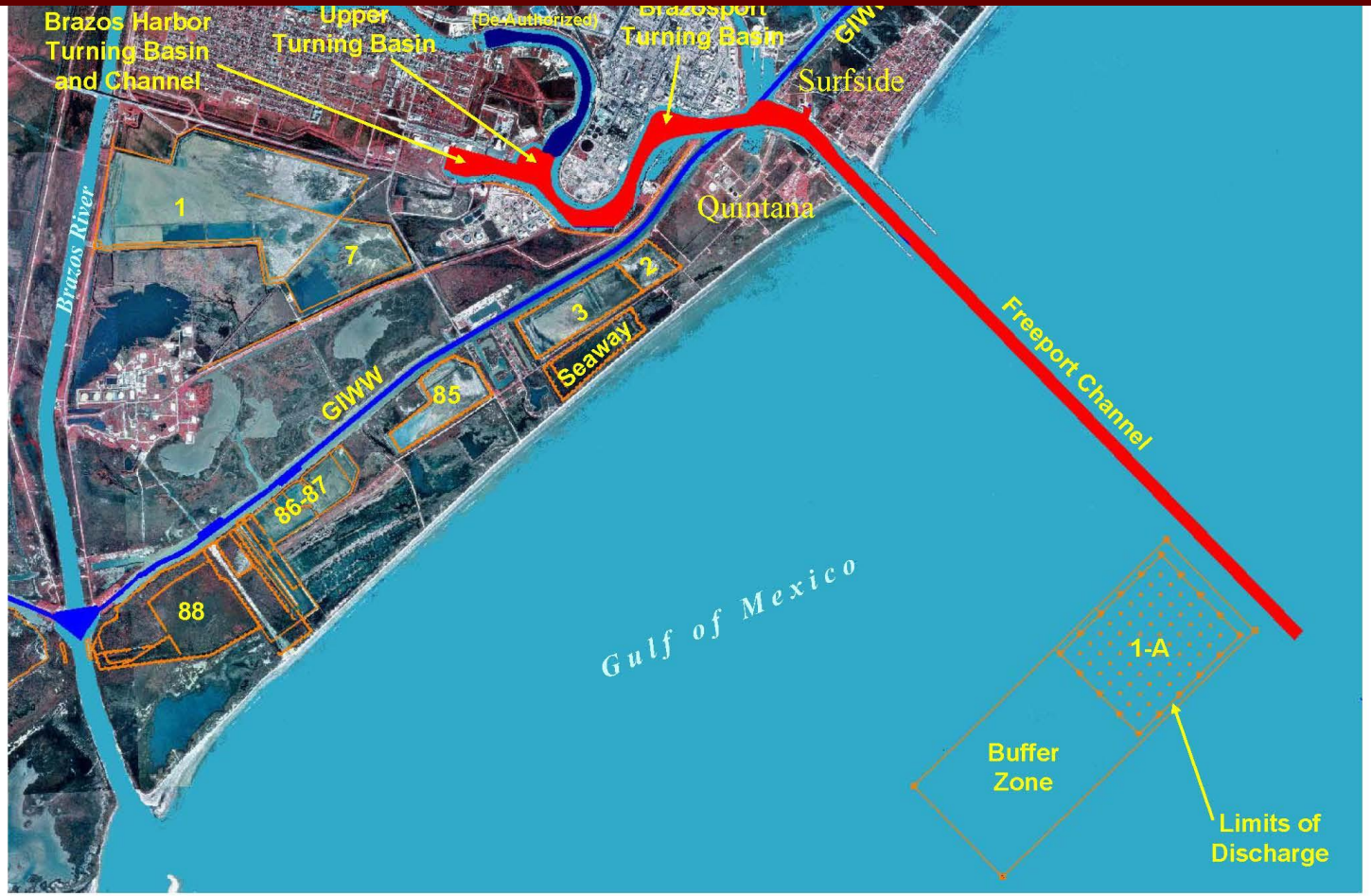
DEEP DRAFT
FY18 CONTRACT SCHEDULES



Freeport Harbor



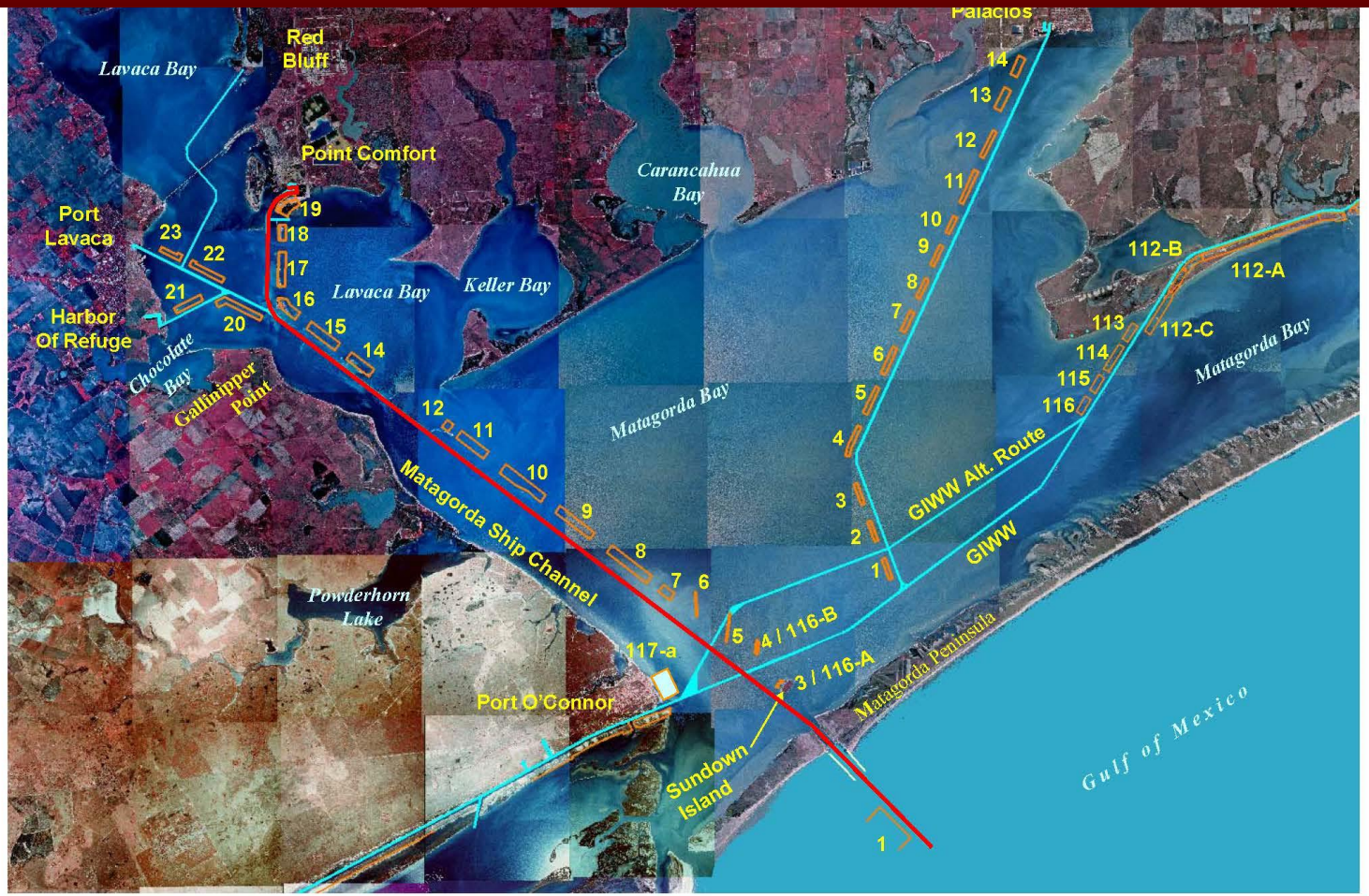
FREEPORT HARBOR
PLACEMENT AREA #1 CONTAINMENT DIKE RAISE

Project:	Freeport Harbor, TX Placement Area #1 Containment Dike Raise
Type of Work:	Dike Raising
Dredging Width:	NA
Dredging Length:	NA
Dredging Quantity:	NA
Material Type:	Clay/Silt
Placement Area (PA):	PA 1
Distance to PA:	NA
Type of Equipment:	Dragline/Earthmoving Equipment
Env. Window:	NA
Reason for Window:	NA
Est. Start Date:	January 1, 2018
Est. Completion Date:	January 12, 2019

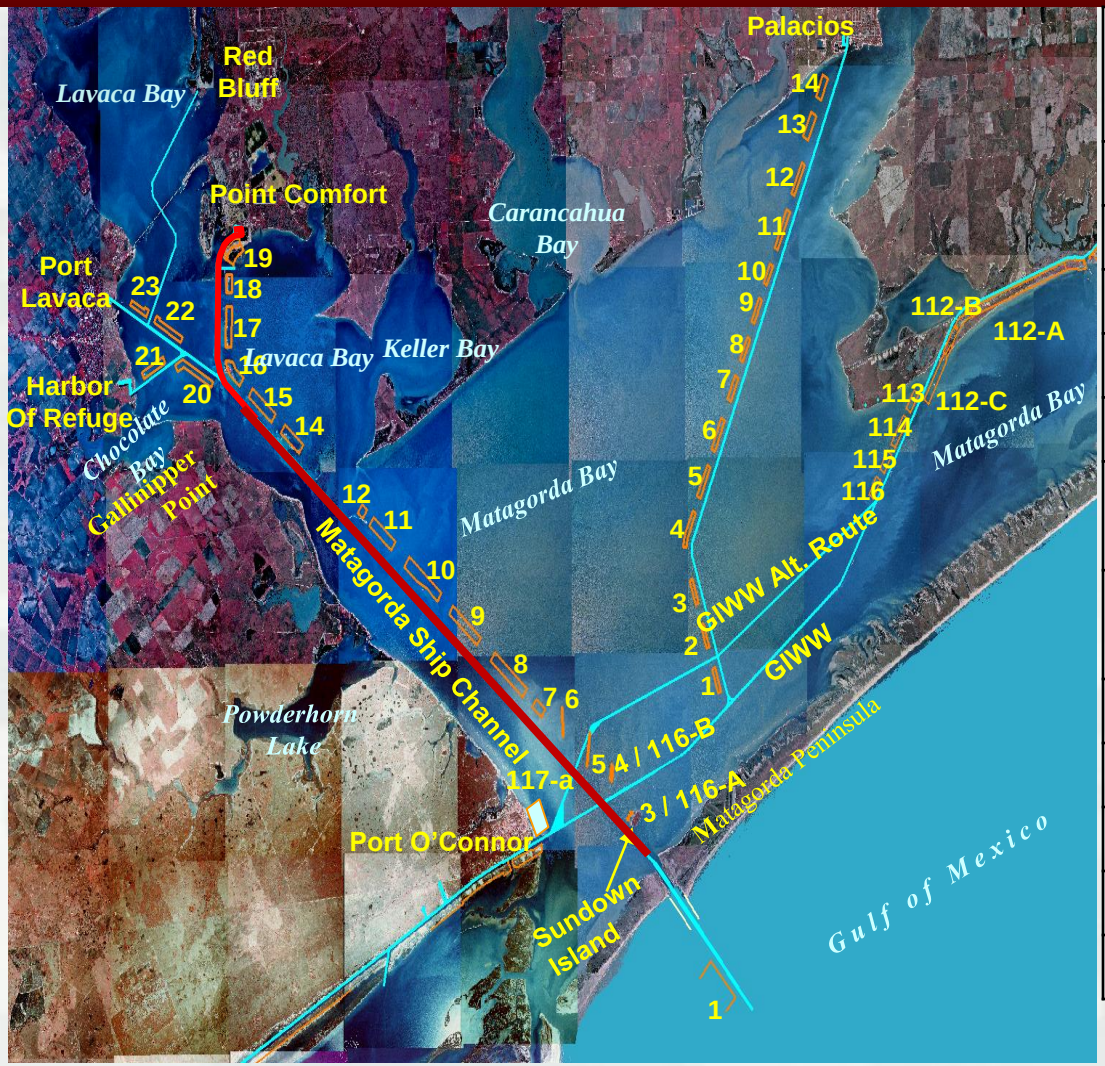
FREEPORT HARBOR
JETTY CHANNEL AND INSIDE CHANNEL

Project:	Freeport Harbor Jetty Channel and Inside Channel
Dredging Depth:	46 ft. Required Depth
Dredging Width:	280 - 1190 ft.
Dredging Length:	Varies
Dredging Quantity:	2,600,000 cubic yards
Material Type:	Clay/Silt
Placement Area:	Offshore
Distance to Place Area:	2.5 Mile Avg.
Type of Equipment:	Hopper
Env. Window:	NA
Reason for Window:	NA
Est. Start Date:	July 13, 2018
Est. Completion Date:	November 12, 2018

Matagorda Ship Channel

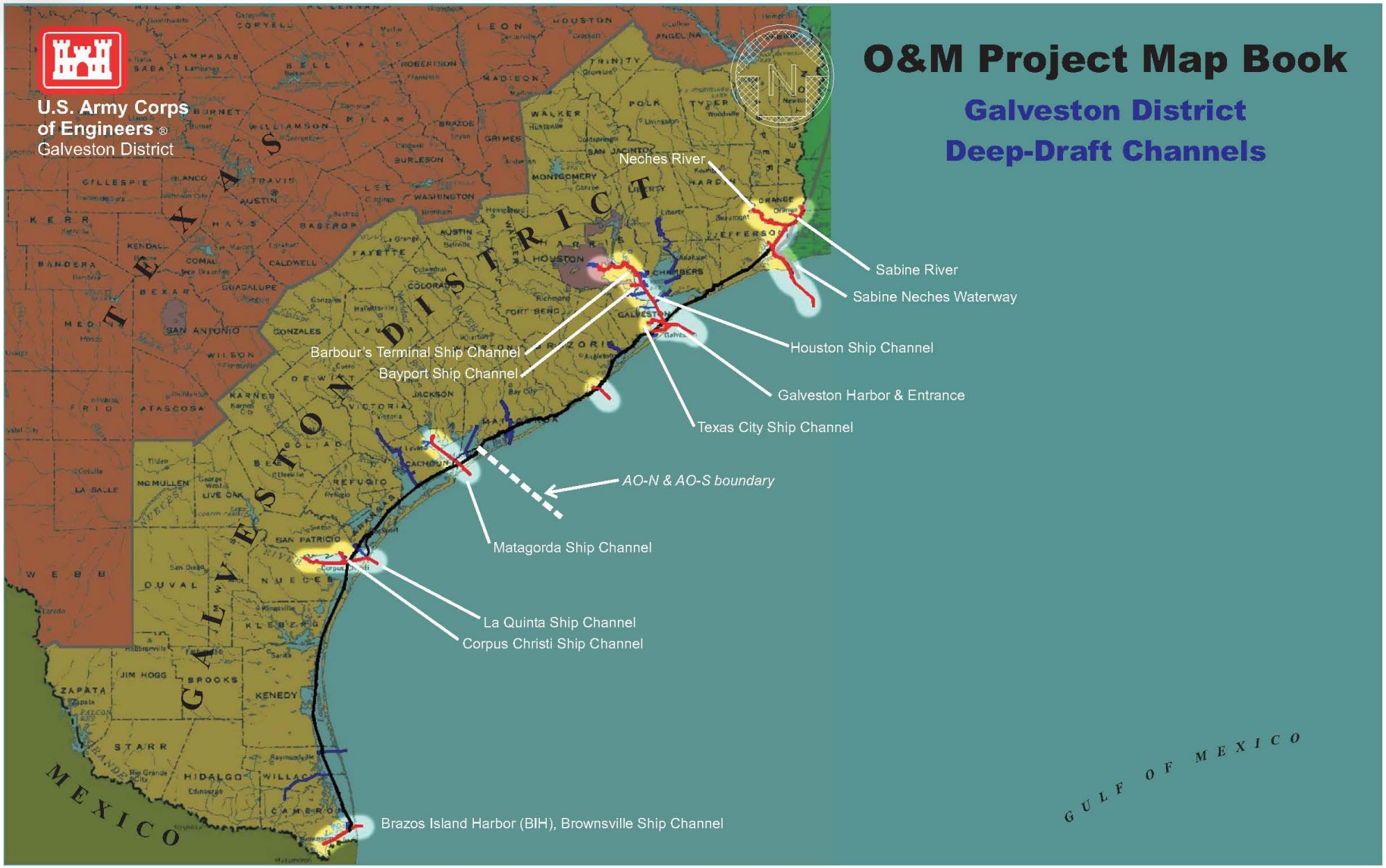


MATAGORDA SHIP CHANNEL
MATAGORDA PENINSULA TO POINT COMFORT



Project:	Matagorda Ship Channel Matagorda Peninsula to Point Comfort
Dredging Depth:	40 ft. Required Depth
Dredging Width:	200 ft.
Dredging Length:	Varies
Dredging Quantity:	2,000,000 cubic yards
Material Type:	Sand/Silt
Placement Area:	Open Water/Semi Confined
Distance to Place Area:	Varies
Type of Equipment:	Pipeline Dredge
Env. Window:	Sept 1 – Feb 28 (Open)
Reason for Window:	Nesting birds Sundown Is
Est. Start Date:	July 24, 2018
Est. Completion Date:	March 6, 2019

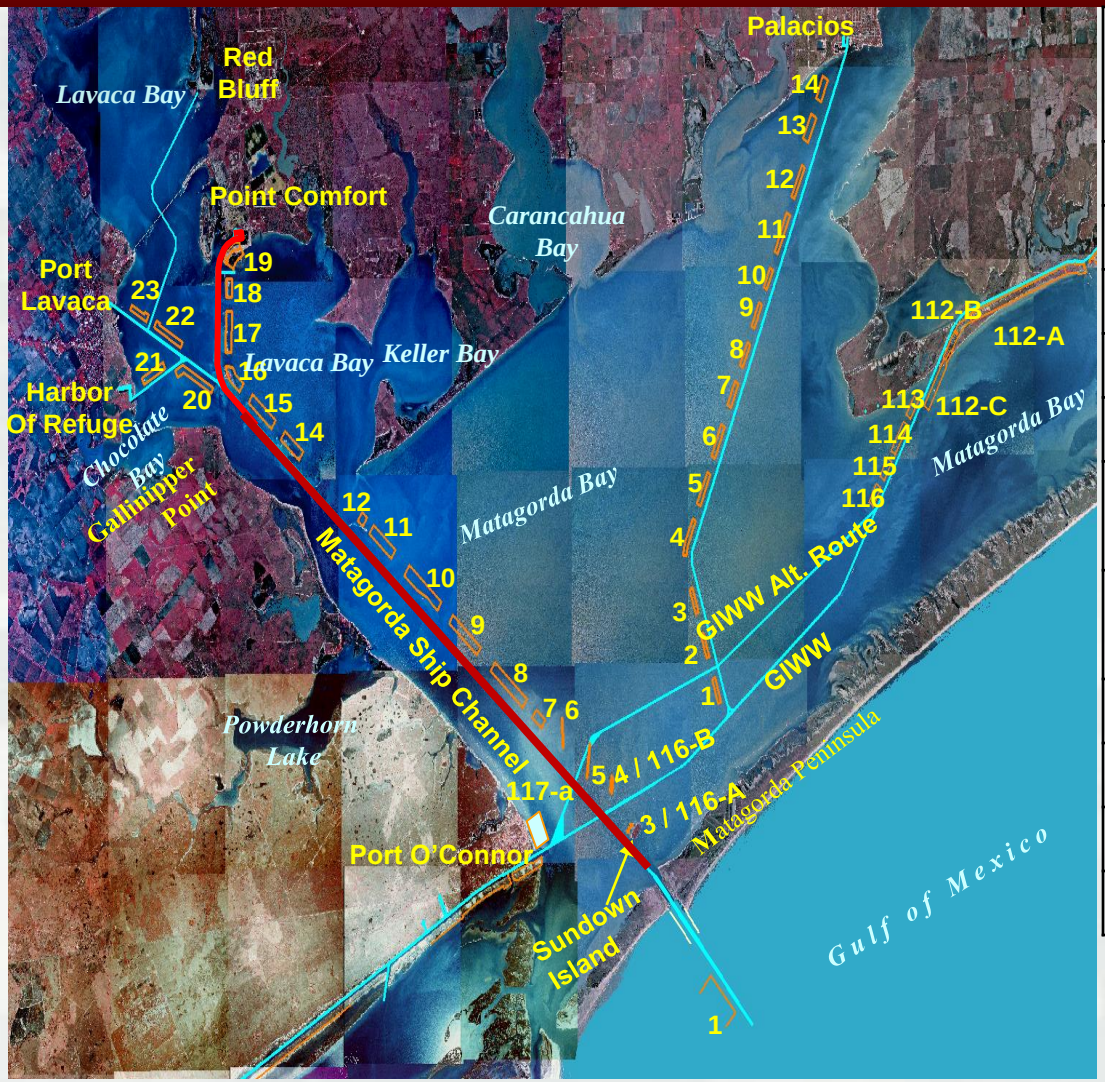
DEEP DRAFT
FY19 PLANNED CONTRACT SCHEDULES



FREEPORT HARBOR
JETTY CHANNEL AND INSIDE CHANNEL

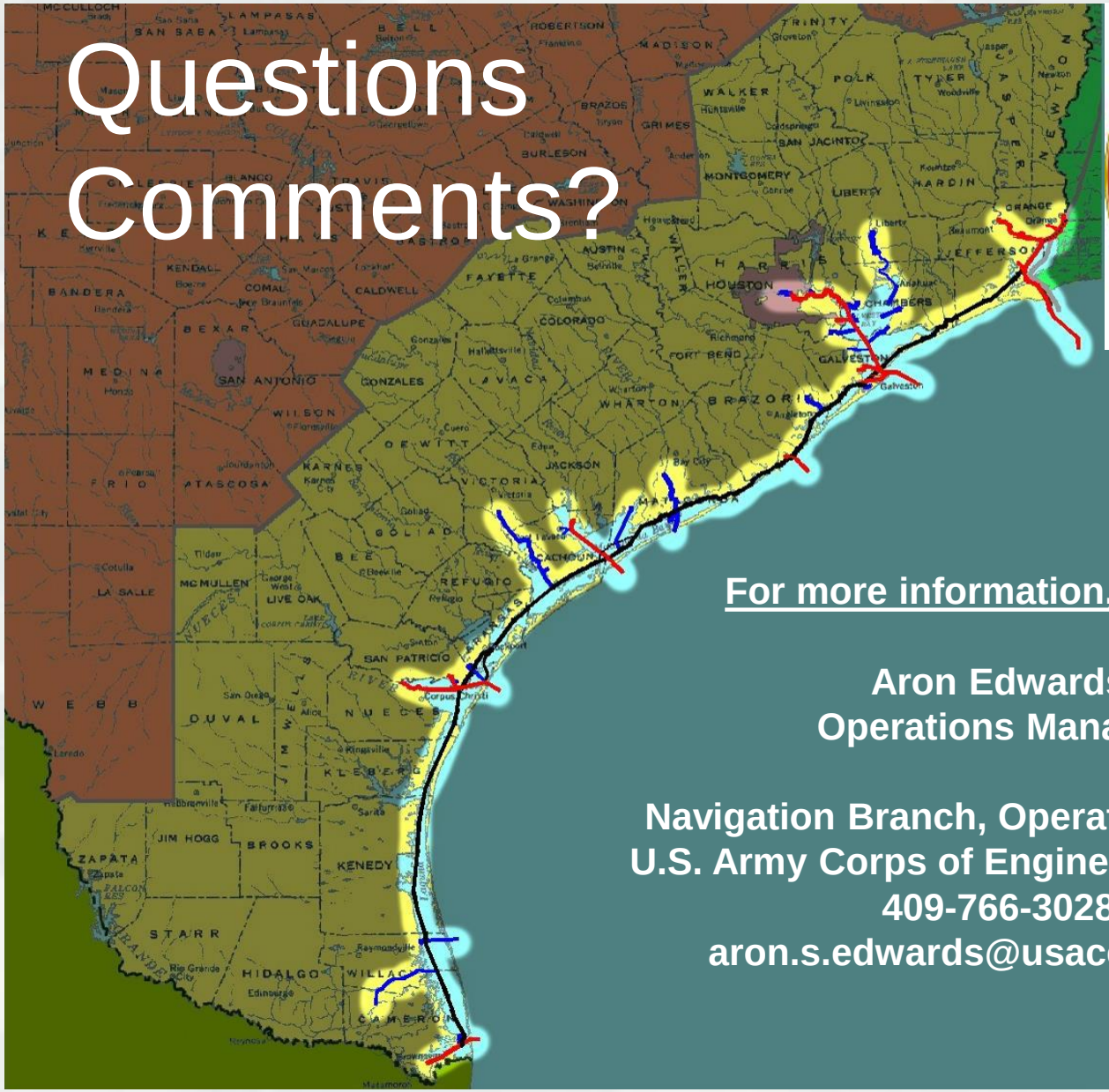
Project:	Freeport Harbor Jetty Channel and Inside Channel
Dredging Depth:	48-49 ft. Required Depth
Dredging Width:	280 - 1190 ft.
Dredging Length:	Varies
Dredging Quantity:	2,600,000 cubic yards
Material Type:	Clay/Silt
Placement Area:	Offshore
Distance to Place Area:	2.5 Mile Avg.
Type of Equipment:	Hopper
Env. Window:	NA
Reason for Window:	NA
Est. Start Date:	June 14, 2019

MATAGORDA SHIP CHANNEL
MATAGORDA PENINSULA TO POINT COMFORT



Project:	Matagorda Ship Channel Matagorda Peninsula to Point Comfort
Dredging Depth:	40 ft. Required Depth
Dredging Width:	200 ft.
Dredging Length:	Varies
Dredging Quantity:	2,000,000 cubic yards
Material Type:	Sand/Silt
Placement Area:	Open Water/Semi Confined
Distance to Place Area:	Varies
Type of Equipment:	Pipeline Dredge
Env. Window:	Sept 1 – Feb 28 (Open)
Reason for Window:	Nesting birds Sundown Is
Award:	September 16, 2019

Questions Comments?



For more information, contact:

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Corpus Christi Ship Channel

Steven Howard
Operations Manager
Navigation Branch
31 October 2017

Galveston District – Dredging Meeting

Custodians of the Texas Coast

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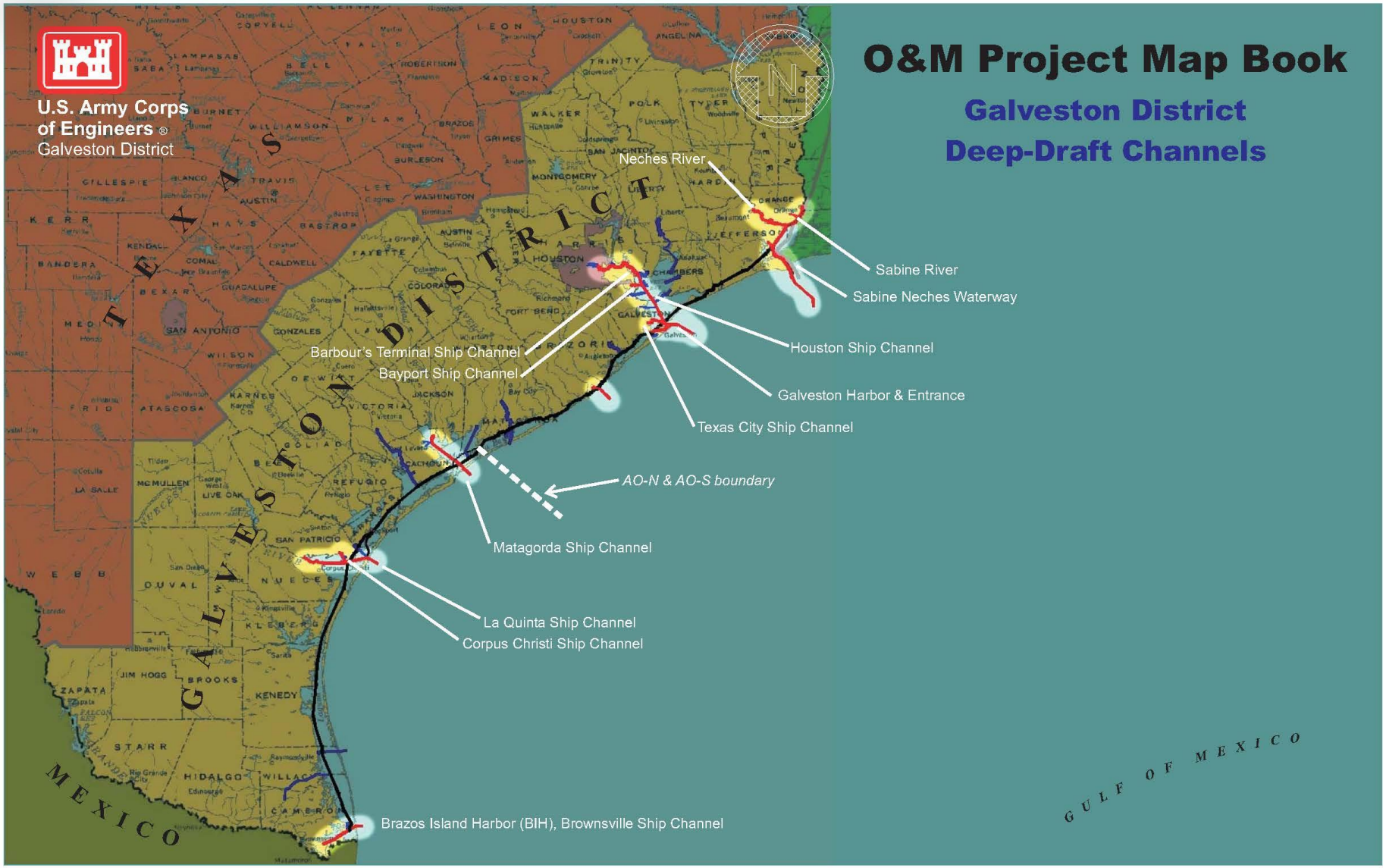
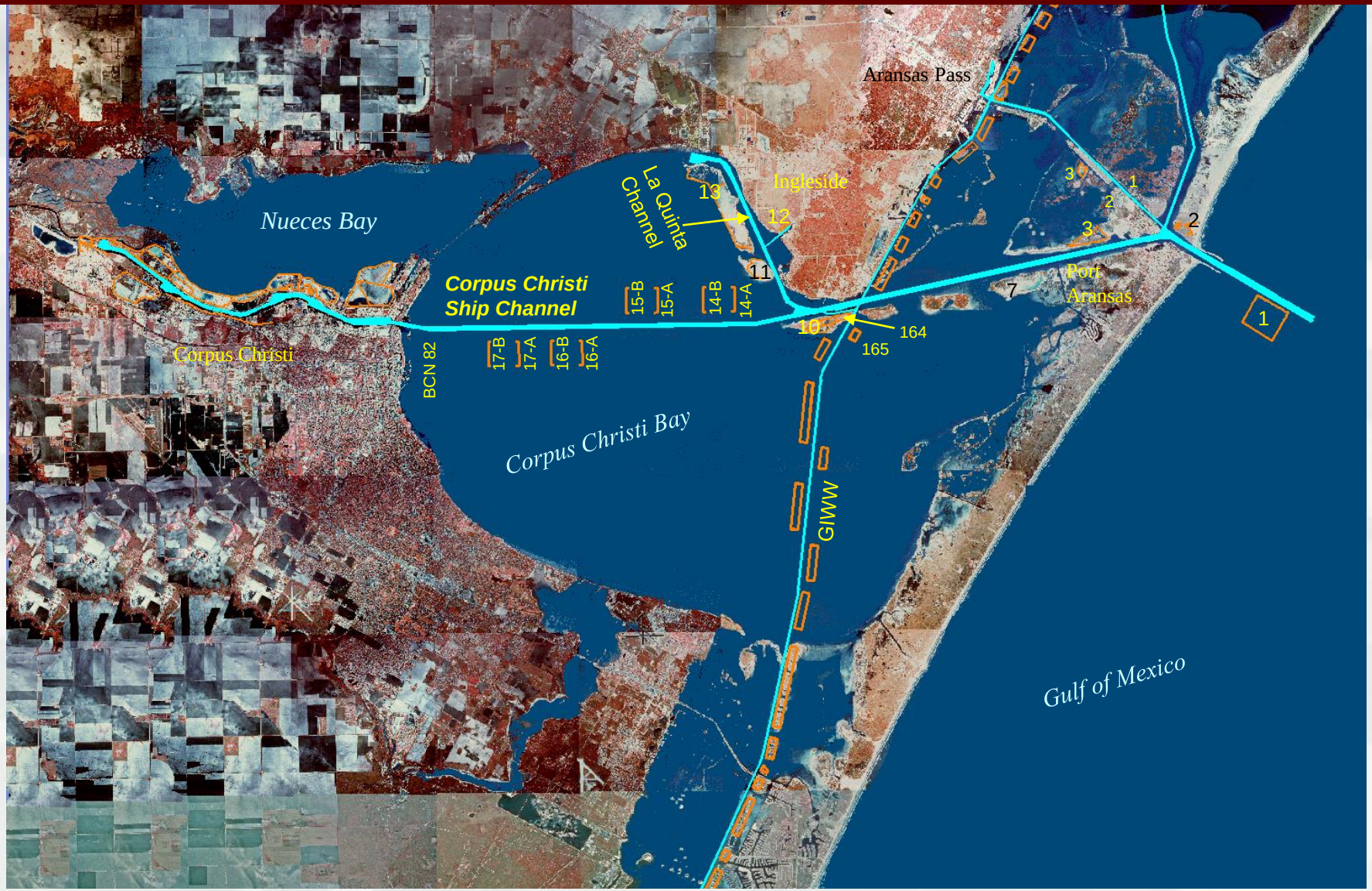
FY18 CONTRACT SCHEDULES



Corpus Christi Ship Channel

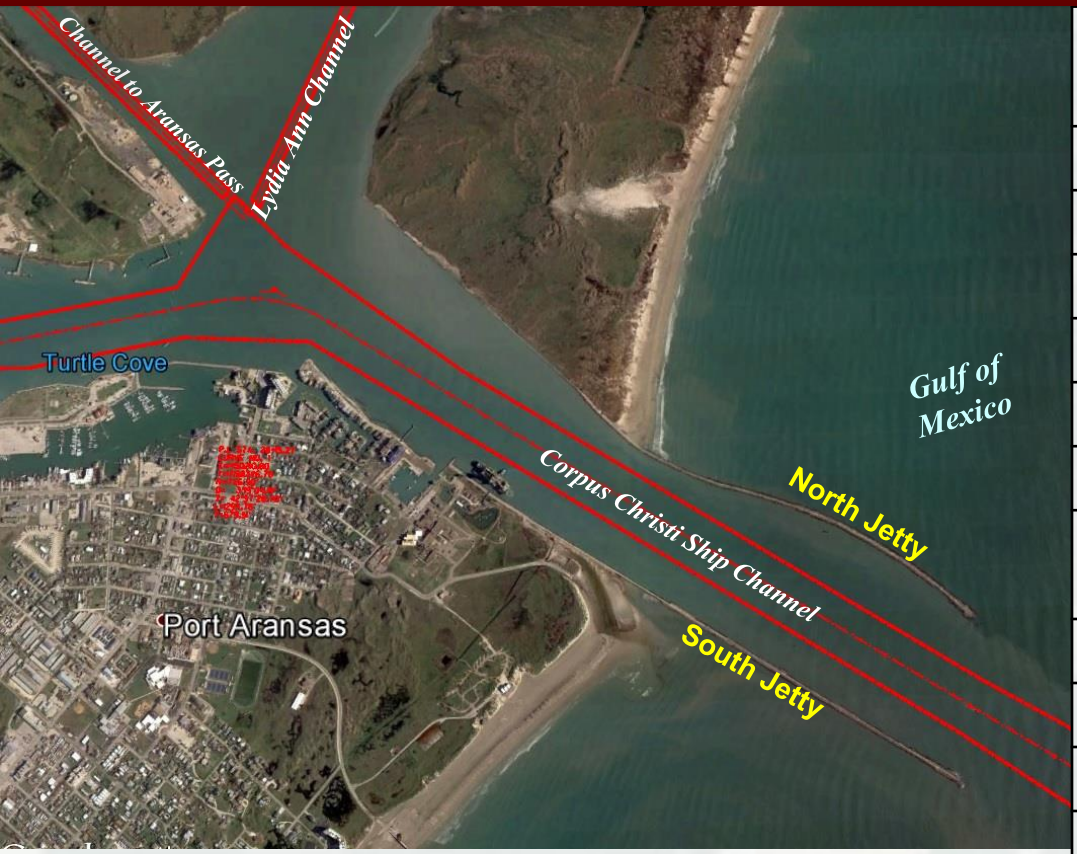


BUILDING STRONG®

CORPUS CHRISTI SHIP CHANNEL
INNER BASIN TO VIOLA T.B. & LA QUINTA CHANNEL

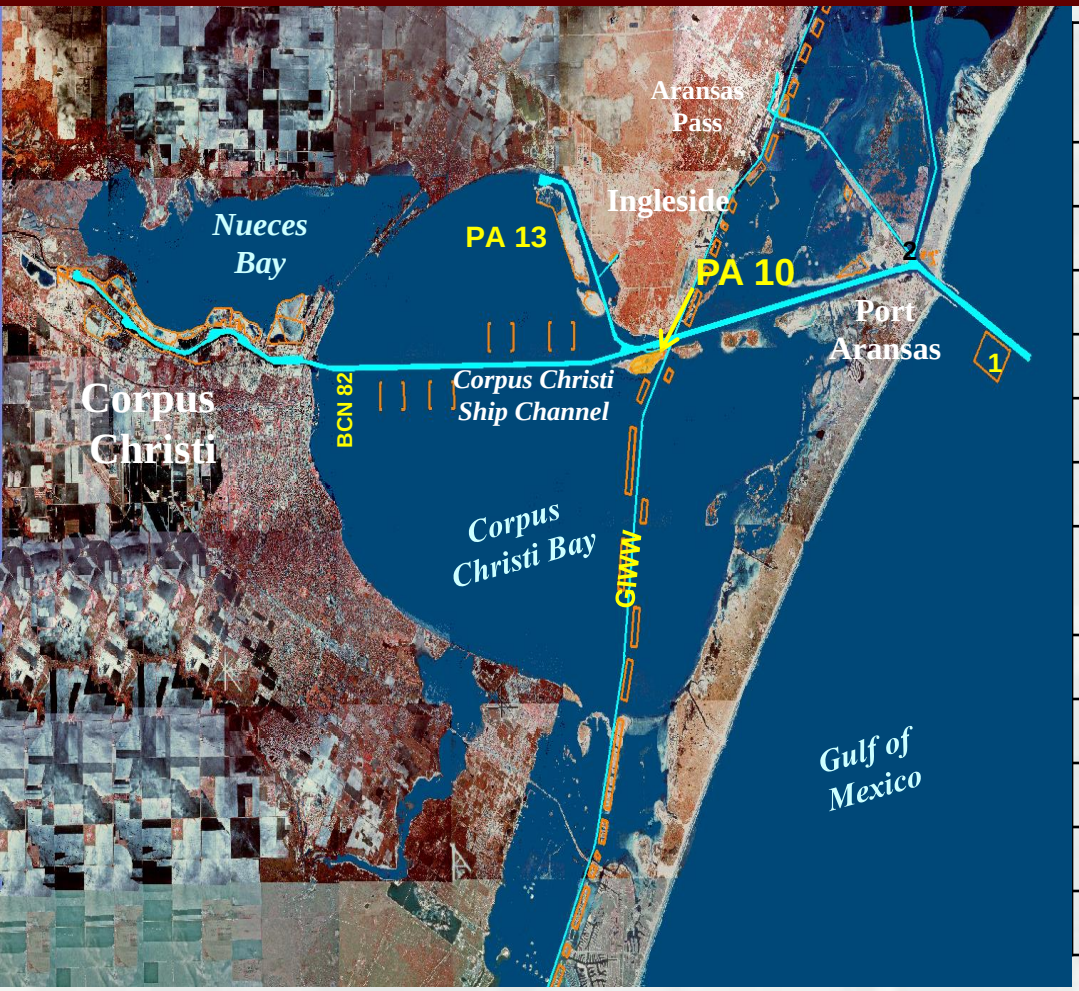
Project:	**Corpus Christi Ship Channel Inner Basin to Viola Turning Basin / La Quinta Channel**
Dredging Depth:	49-ft. Required Depth
Dredging Width:	300-400ft.
Dredging Length:	Varies
Dredging Quantity:	2,900,000 cubic yards
Material Type:	Silt / Sand
Placement Area:	Open Water and Upland
Distance to Placement Area:	1-4 Miles
Type of Equipment:	Pipeline Dredge
Env. Window	Sep. – Feb. (Open)
Reason for Window:	Nesting Birds PA 7-8
Start Date:	July 16, 2018
Est. Completion Date:	February 15, 2019

CORPUS CHRISTI SHIP CHANNEL JETTY REPAIRS



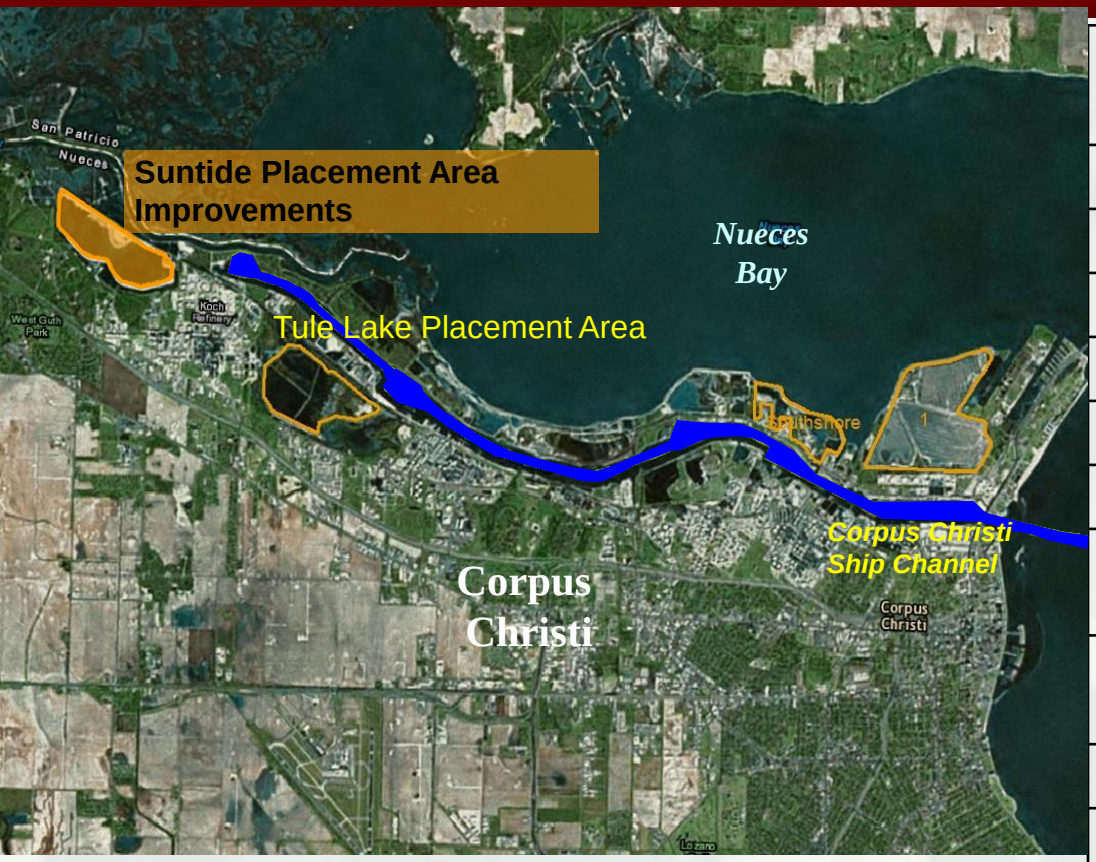
Project:	Corpus Christi Ship Channel Jetty Repairs
Type of Work:	Jetty Repairs
Dredging Width:	NA
Dredging Length:	NA
Dredging Quantity:	NA
Material Type:	NA
Placement Area:	NA
Distance to Placement Area:	NA
Type of Equipment:	Marine Construction
Env. Window:	NA
Reason for Window:	NA
Est. Start Date:	September 12, 2018
Est. Completion Date:	March 5, 2019

CORPUS CHRISTI SHIP CHANNEL
PLACEMENT AREA NO. 10 (PA 10) IMPROVEMENTS



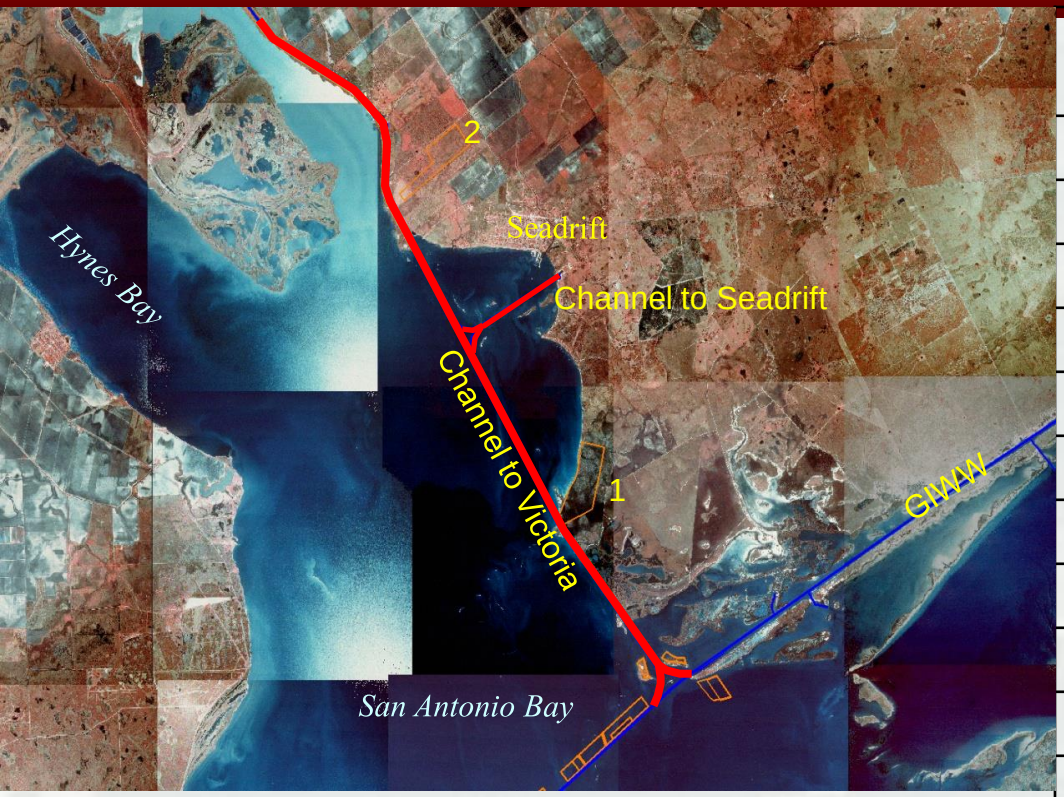
Project:	Corpus Christi Ship Channel PA 10 Improvements
Type of Work:	Containment Dike
Dredging Width:	NA
Dredging Length:	NA
Dredging Quantity:	NA
Material Type:	NA
Placement Area:	PA 10
Distance to Placement Area:	NA
Type of Equipment:	Bull dozers; Excavators
Env. Window:	NA
Reason for Window:	NA
Est. Start Date:	September 20, 2018
Est. Completion Date:	August 10, 2019

CORPUS CHRISTI SHIP CHANNEL – SUNTIDE PLACEMENT AREA IMPROVEMENT



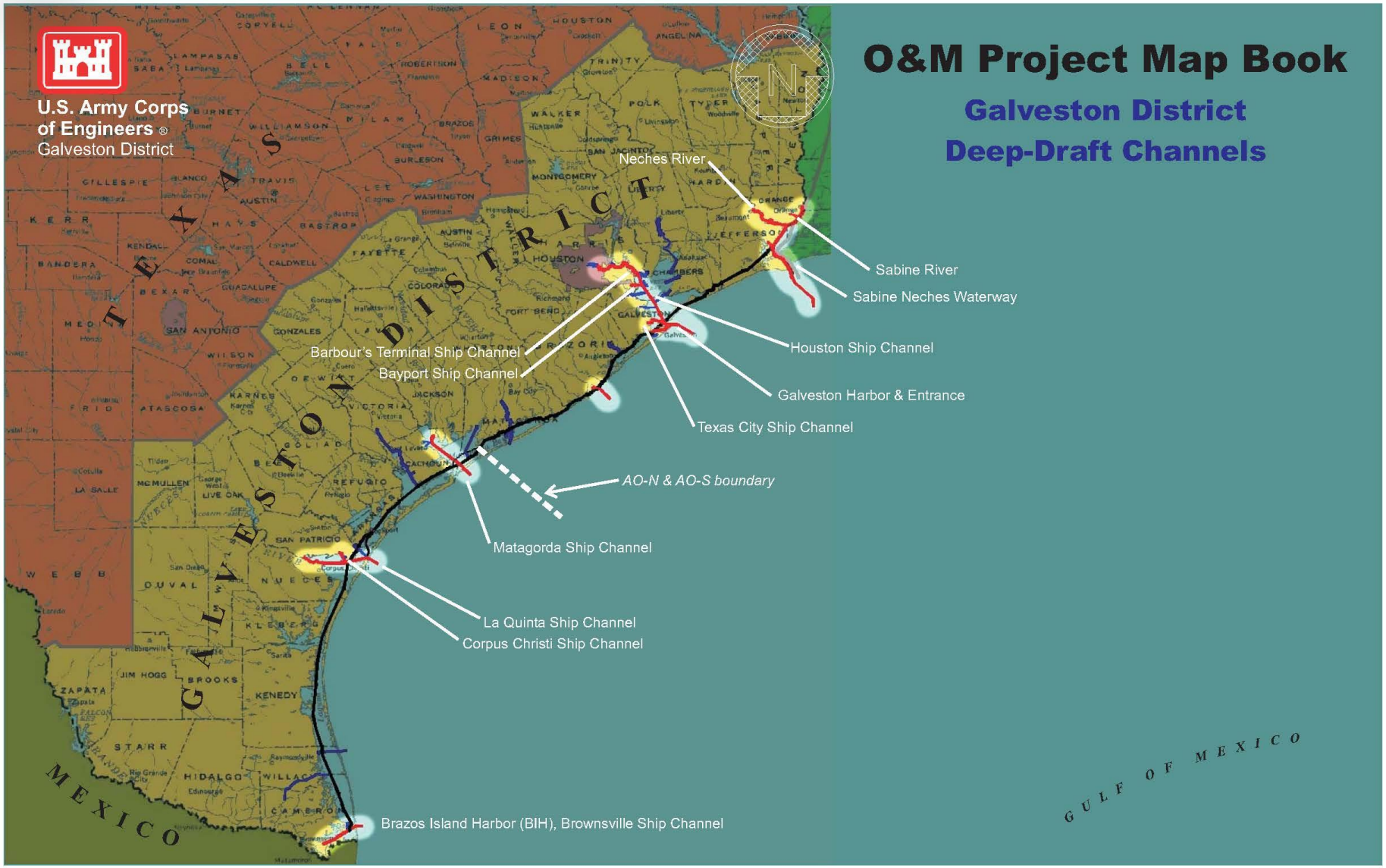
Project:	CCSC - Suntide Placement Area Improvement
Type of Work:	Levee
Dredging Width:	NA
Dredging Length:	NA
Dredging Quantity:	NA
Material Type:	NA
Placement Area:	Suntide
Distance to Place Area:	NA
Type of Equipment:	Dragline/Earthmoving equipment
Env. Window:	NA
Reason for Window:	NA
Est. Start Date:	September 15, 2018
Est. Completion Date:	March 16, 2019

CHANNEL TO VICTORIA AND CHANNEL TO SEADRIFT

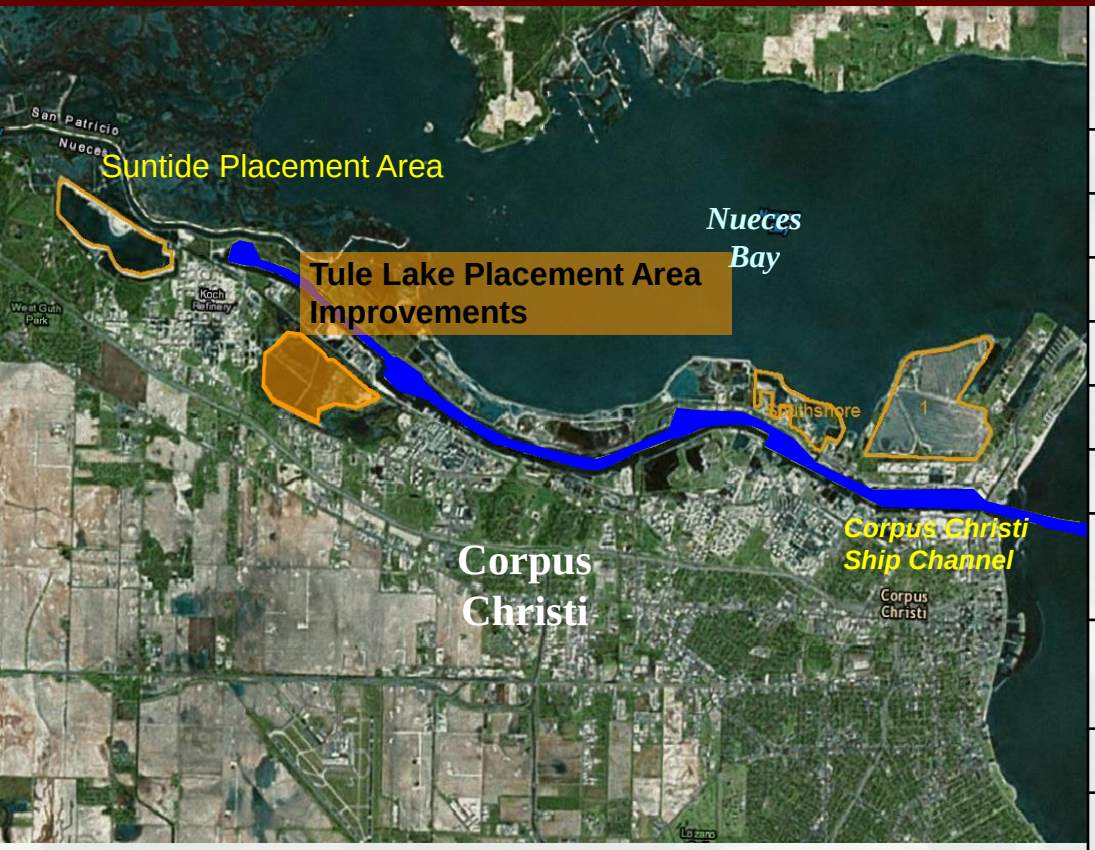


Project:	**GIWW, Ch to Victoria Lower Reach, Seadrift**
Dredging Depth:	16-ft Required Depth
Dredging Width:	125 ft.
Dredging Length:	Varies
Dredging Quantity:	1,500,000 cubic yards
Material Type:	Silt/Sand
Placement Area (PA):	Upland Confined
Distance to PA:	2.0 Mile (avg.)
Type of Equipment:	Pipeline
Env. Window:	NA
Reason for Window:	NA
Est. Start Date:	May 30, 2018
Est. Completion Date:	November 16, 2018

DEEP DRAFT
FY19 PLANNED CONTRACT SCHEDULES



CORPUS CHRISTI SHIP CHANNEL – TULE LAKE PLACEMENT AREA IMPROVEMENT

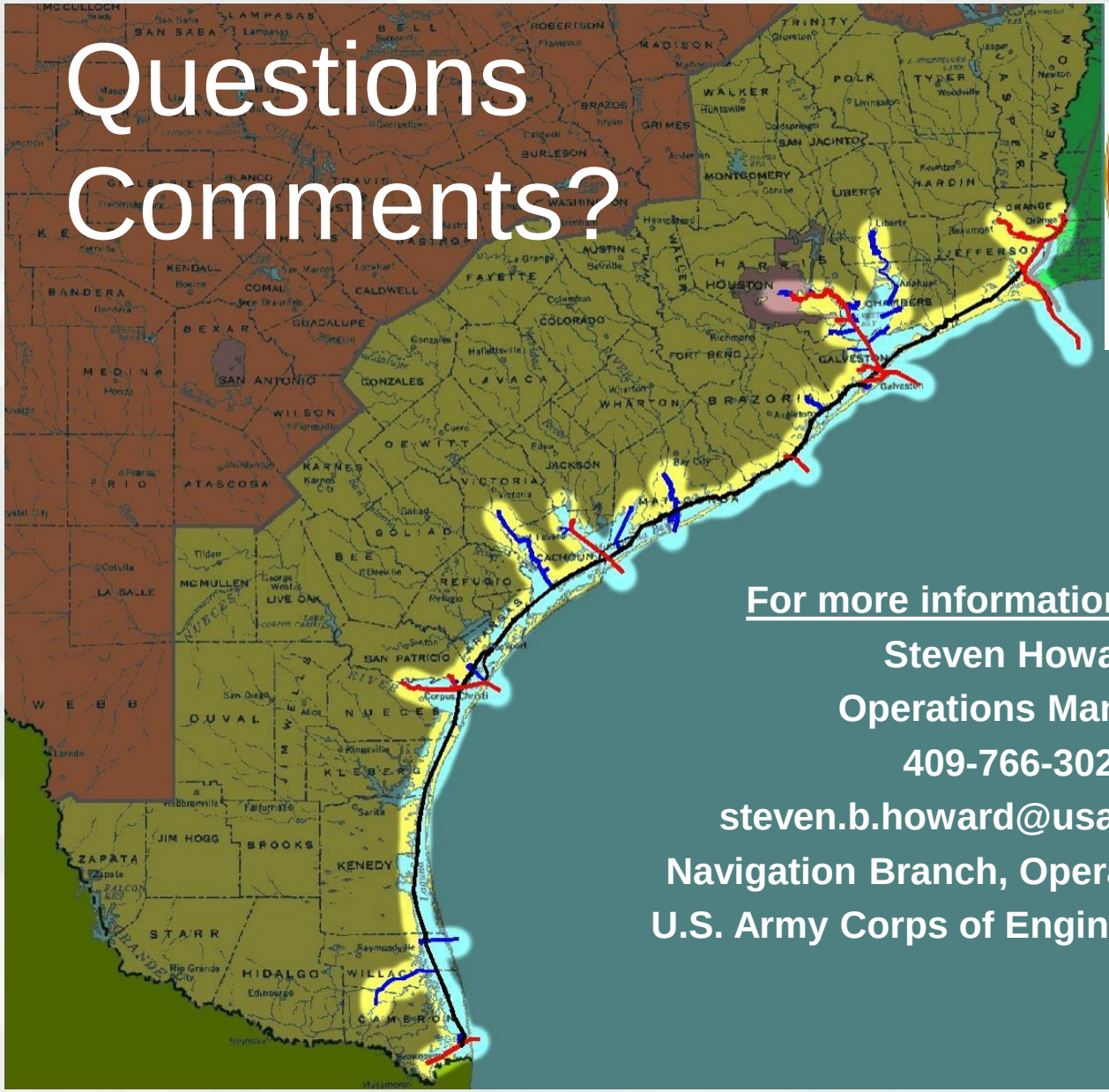


Project:	CCSC – Tule Lake Placement Area Improvement
Type of Work:	Containment Dike Raising
Dredging Width:	NA
Dredging Length:	NA
Dredging Quantity:	NA
Material Type:	Silt/Clay
Placement Area:	Tule Lake
Distance to Place Area:	NA
Type of Equipment:	Dragline/Earthmoving equipment
Env. Window:	NA
Reason for Window:	NA
Award:	April 15, 2019

CORPUS CHRISTI SHIP CHANNEL
INNER BASIN TO VIOLA

Project:	Corpus Christi Ship Channel Inner Basin to Viola
Dredging Depth:	49-ft. Required Depth
Dredging Width:	300-400ft.
Dredging Length:	Varies
Dredging Quantity:	2,500,000 cubic yards
Material Type:	Silt / Sand
Placement Area:	Open Water and Upland
Distance to Placement Area:	1-4 Miles
Type of Equipment:	Pipeline Dredge
Env. Window	Sep. – Feb. (Open)
Reason for Window:	Nesting Birds PA 7-8
Award:	August 15, 2019

Questions Comments?



For more information, contact:

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Navigation Branch, Operations Division

U.S. Army Corps of Engineers, Galveston

Brazos Island Harbor (BIH) & Gulf Intracoastal Waterway

Seth Jones
Operation Manager
Navigation Branch
31 October 2017

Galveston District – Dredging Meeting

Custodians of the Texas Coast

US Army Corps of Engineers
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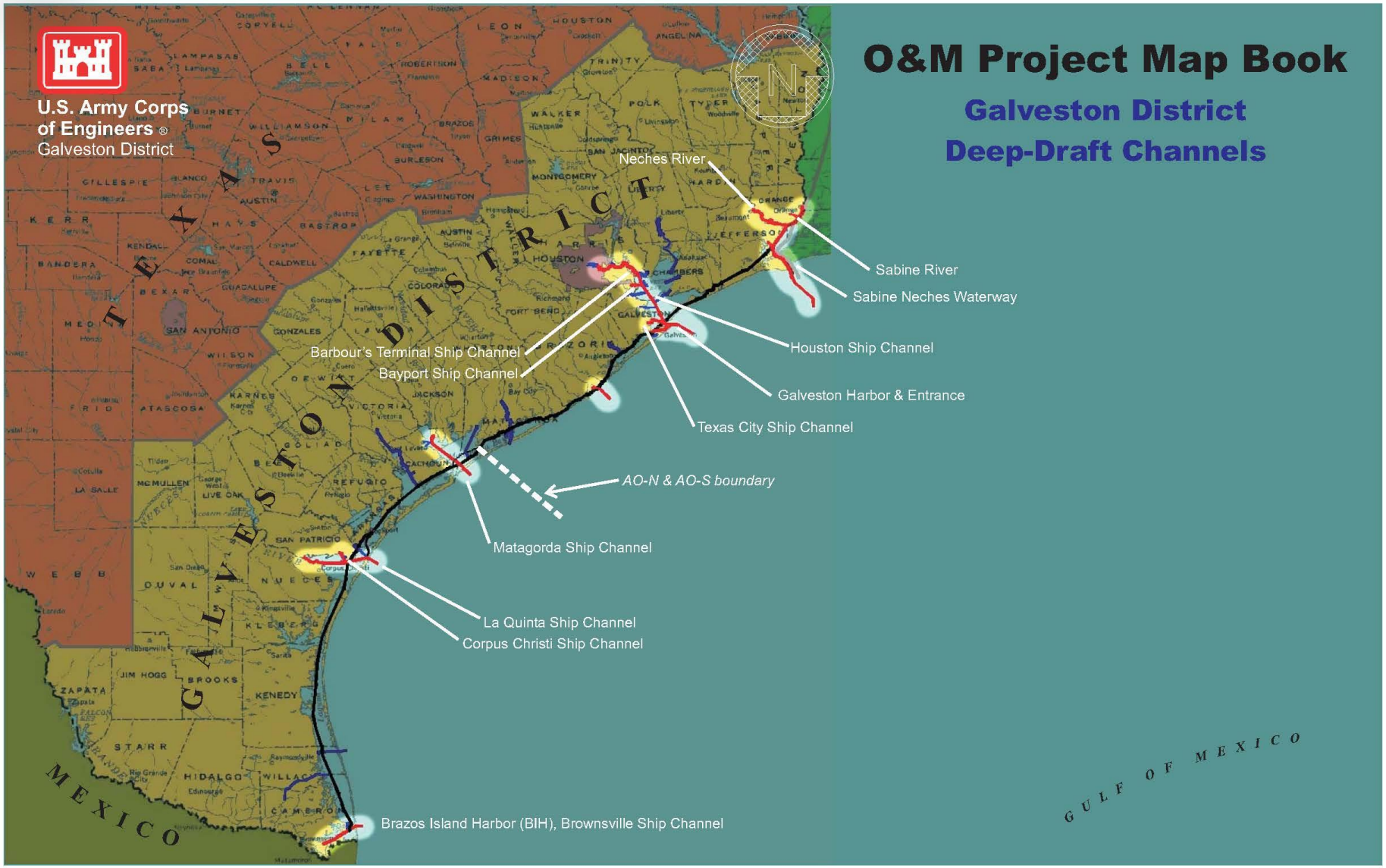
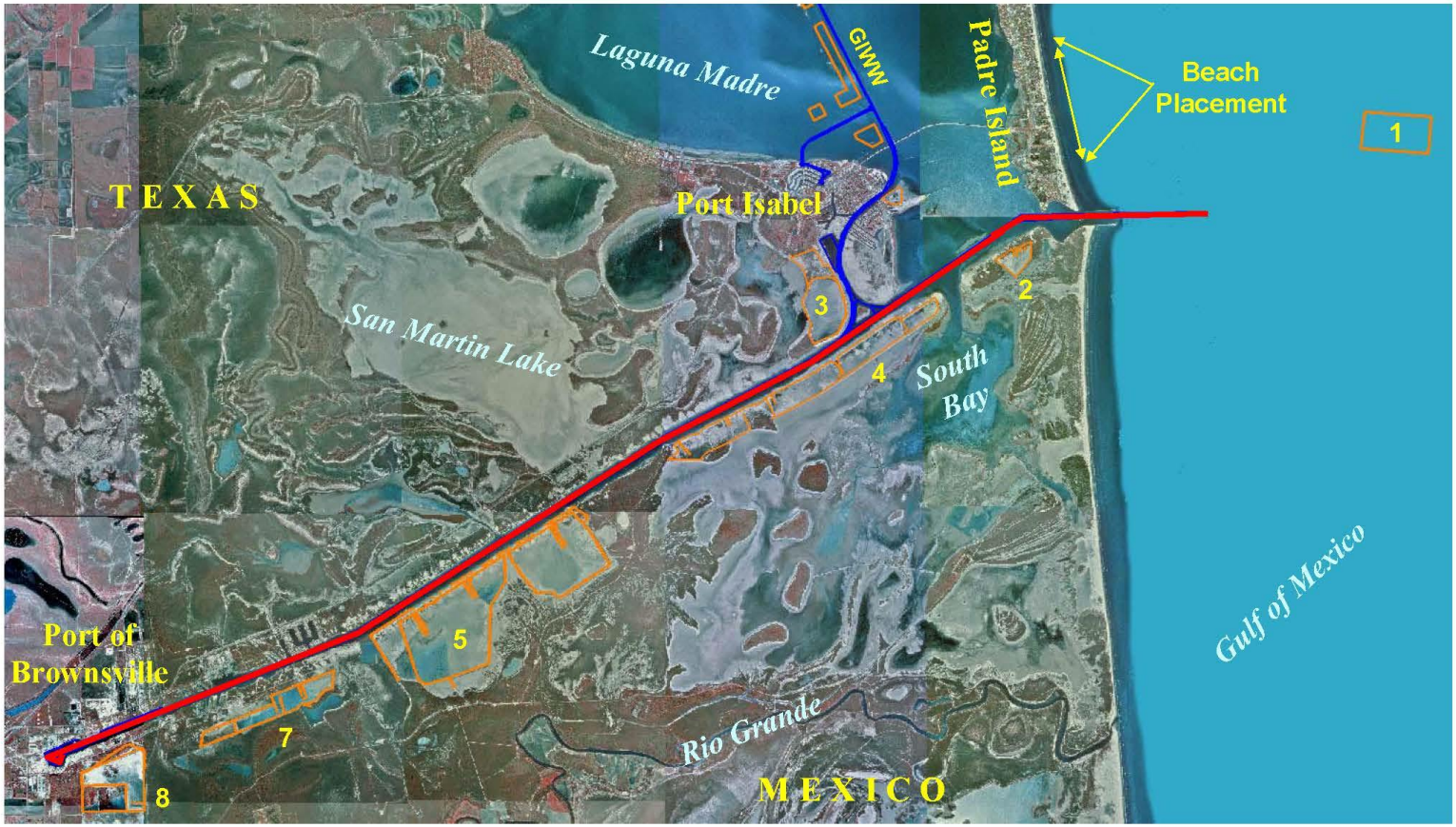
DEEP DRAFT
FY18 CONTRACT SCHEDULES



Brazos Island Harbor (Brownsville Harbor)

US Army Corps of Engineers®
Galveston District

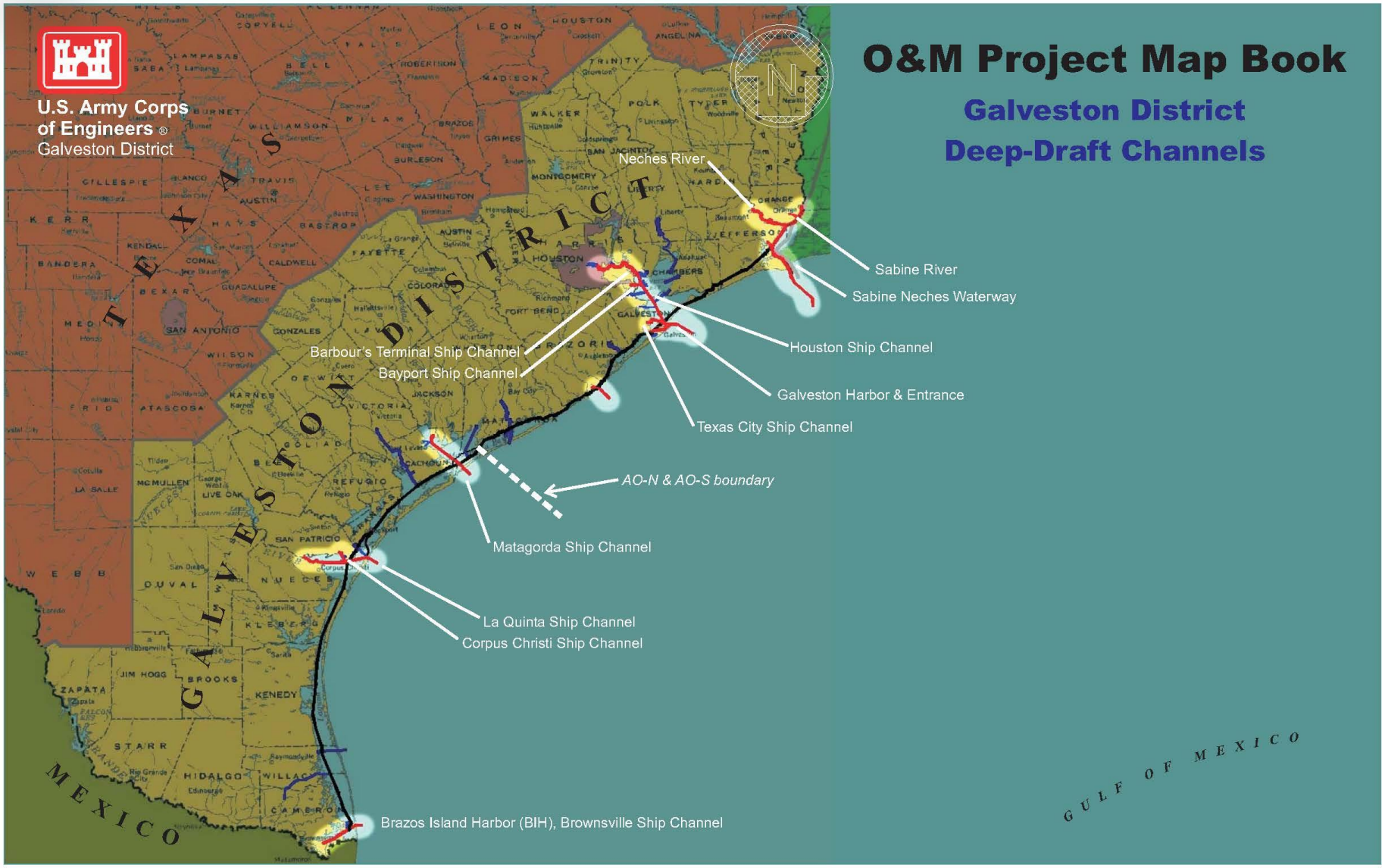
Brazos Island Harbor (BIH)
Brownsville Ship Channel



BRAZOS ISLAND HARBOR
JETTY CHANNEL WITH BEACH PLACEMENT

Project:	Brazos Island Harbor Brownsville Jetty Channel
Dredging Depth:	46 ft. Required Depth
Dredging Width:	300 - 400 ft.
Dredging Length:	Varies
Dredging Quantity:	400,000 cubic yards
Material Type:	Sand
Placement Area:	Beach/BU
Distance to Place Area:	1-5 Miles Avg.
Type of Equipment:	Hopper/Pipeline
Env. Window:	1 Oct- 14Mar
Reason for Window:	Turtle/Tourism
Est. Start Date:	February 2, 2018; September 27, 2018
Est. Completion Date:	March 31, 2018 November 26, 2018

DEEP DRAFT
FY19 CONTRACT SCHEDULES



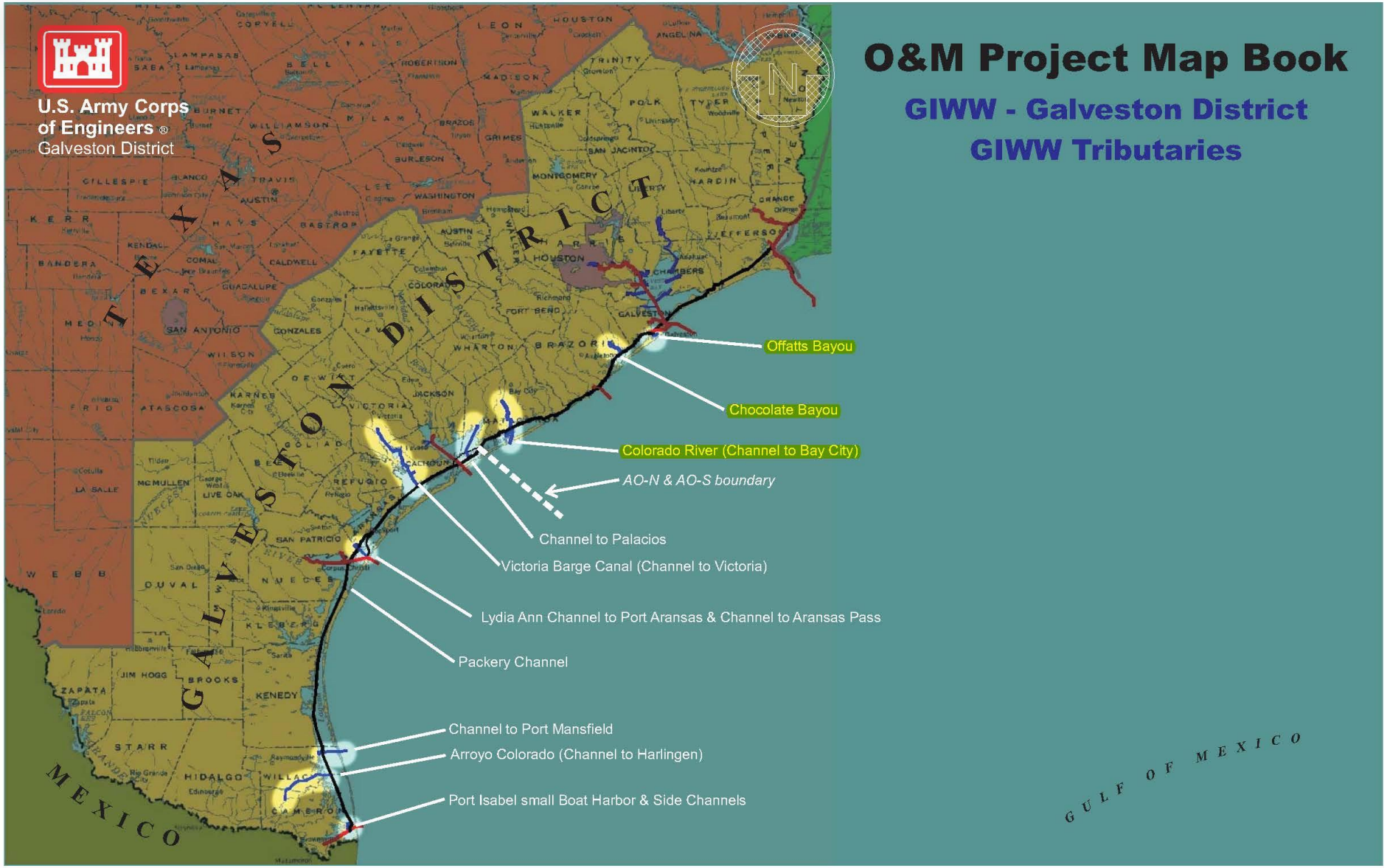
BRAZOS ISLAND HARBOR
MAIN CHANNEL

Project:	Brazos Island Harbor Brownsville Ship Channel
Dredging Depth:	44 ft. Required Depth
Dredging Width:	250 - 1200 ft.
Dredging Length:	Varies
Dredging Quantity:	1,000,000 cubic yards
Material Type:	Silt
Placement Area:	Upland
Distance to Place Area:	1 Mile Avg.
Type of Equipment:	Pipeline
Env. Window:	NA
Reason for Window:	NA
Award:	June 12, 2019

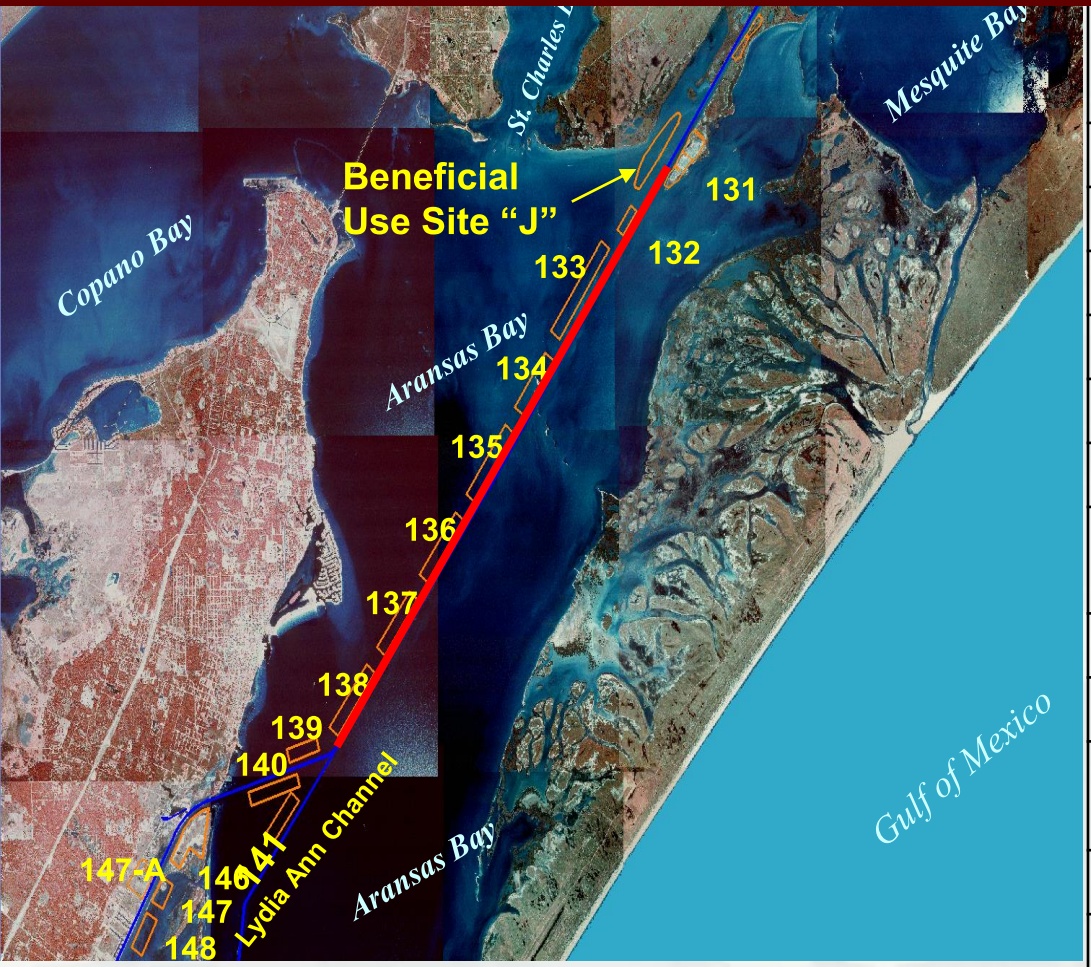
BRAZOS ISLAND HARBOR
JETTY CHANNEL WITH BEACH PLACEMENT

Project:	Brazos Island Harbor Brownsville Jetty Channel
Dredging Depth:	46 ft. Required Depth
Dredging Width:	300 - 400 ft.
Dredging Length:	Varies
Dredging Quantity:	400,000 cubic yards
Material Type:	Sand
Placement Area:	Beach/BU
Distance to Place Area:	1-5 Miles Avg.
Type of Equipment:	Hopper/Pipeline
Env. Window:	1 Oct- 14Mar
Reason for Window:	Turtle/Tourism
Award:	September 17, 2019

SHALLOW DRAFT
FY18 CONTRACT SCHEDULES



GULF INTRACOASTAL WATERWAY CHANNEL ACROSS ARANSAS BAY



Project:	Gulf Intracoastal Waterway Channel Across Aransas Bay
Dredging Depth:	14-16 ft. Required Depth
Dredging Width:	125 ft.
Dredging Length:	Varies
Dredging Quantity:	1,200,000 cubic yards
Material Type:	Sand/Silt
Placement Area:	Open / BU
Distance to Place Area:	1 Mile Avg.
Type of Equipment:	Pipeline
Env. Window:	April thru Oct
Reason for Window:	Whooping Crane/Nesting Birds
Est. Start Date:	March 3, 2018
Est. Completion Date:	October 14, 2018

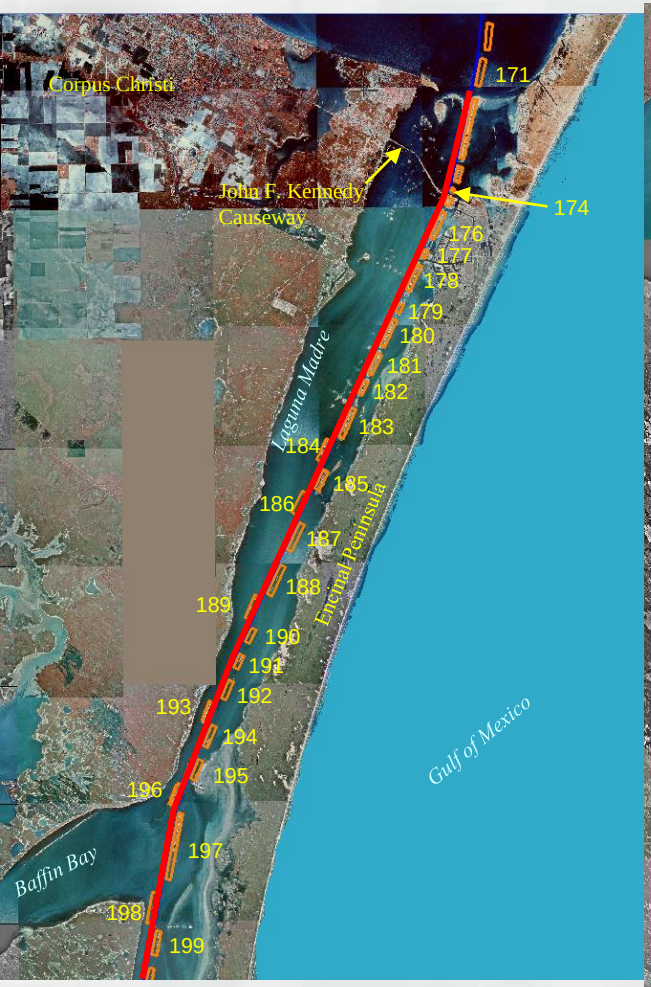
GULF INTRACOASTAL WATERWAY – FREEPORT TO CANEY CREEK, BRAZOS RIVER CROSSING

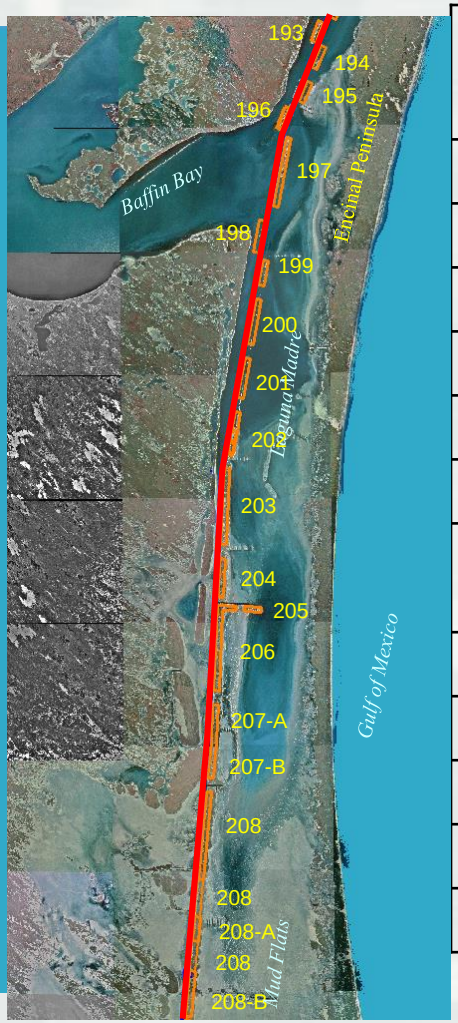
Project:	Gulf Intracoastal Waterway Freeport to Caney Creek, Brazos River Crossing
Dredging Depth:	13-15 ft. Required Depth
Dredging Width:	125 ft.
Dredging Length:	Varies
Dredging Quantity:	600,000 cubic yards
Material Type:	Sand/Silt
Placement Area:	Open / BU
Distance to Place Area:	1 Mile Avg.
Type of Equipment:	Pipeline
Env. Window:	NA
Reason for Window:	NA
Est. Start Date:	May 29, 2018
Est. Completion Date:	September 29, 2018

GULF INTRACOASTAL WATERWAY
PA 86 & 87 IMPROVEMENTS

Project:	Gulf Intracoastal Waterway PA 86 & 87 Containment Dike Raise
Type of Work:	Dike Raising
Dredging Width:	NA
Dredging Length:	NA
Dredging Quantity:	NA
Material Type:	Silt/Clay
Placement Area:	PA 86 & 87
Distance to Place Area:	NA
Type of Equipment:	Dragline
Env. Window:	NA
Reason for Window:	NA
Est. Start Date:	May 29, 2018
Est. Completion Date:	July 5, 2019

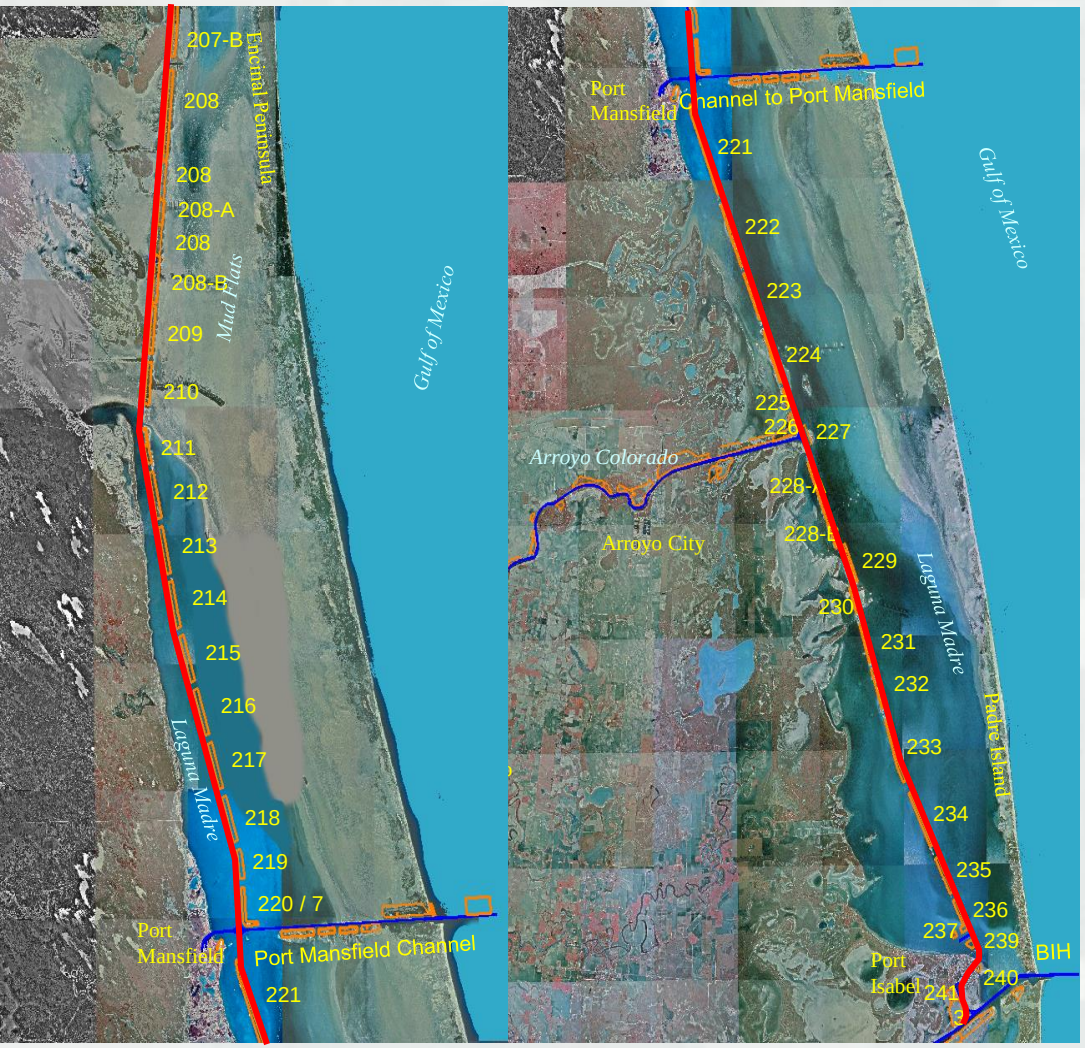
GULF INTRACOASTAL WATERWAY CORPUS CHRISTI TO PORT ISABEL/ CHANNEL TO HARLINGEN





Project:	Gulf Intracoastal Waterway Corpus Christi to Port Isabel/ Channel to Harlingen
Dredging Depth:	14 ft. Required Depth
Dredging Width:	125 ft.
Dredging Length:	Varies
Dredging Quantity:	1,500,000 cubic yards
Material Type:	Fine Silt/Sand
Placement Area:	Open/BU Sites
Distance to Placement Area:	3 Miles Avg.
Type of Equipment:	Pipeline
Env. Window:	1 Nov. - 28 Feb.
Reason for Window:	Seagrass
Est. Start Date:	July 29, 2018
Est. Completion Date:	February 28, 2019

GULF INTRACOASTAL WATERWAY CORPUS CHRISTI TO PORT ISABEL/ CHANNEL TO HARLINGEN



Project:	Gulf Intracoastal Waterway Corpus Christi to Port Isabel/ Channel to Harlingen
Dredging Depth:	14 ft. Required Depth
Dredging Width:	125 ft.
Dredging Length:	Varies
Dredging Quantity:	1,500,000 cubic yards
Material Type:	Fine Silt/Sand
Placement Area:	Open/BU Sites
Distance to Placement Area:	3 Miles Avg.
Type of Equipment:	Pipeline
Env. Window:	1 Nov. - 28 Feb.
Reason for Window:	Seagrass
Est. Start Date:	July 29, 2018
Est. Completion Date:	February 28, 2019

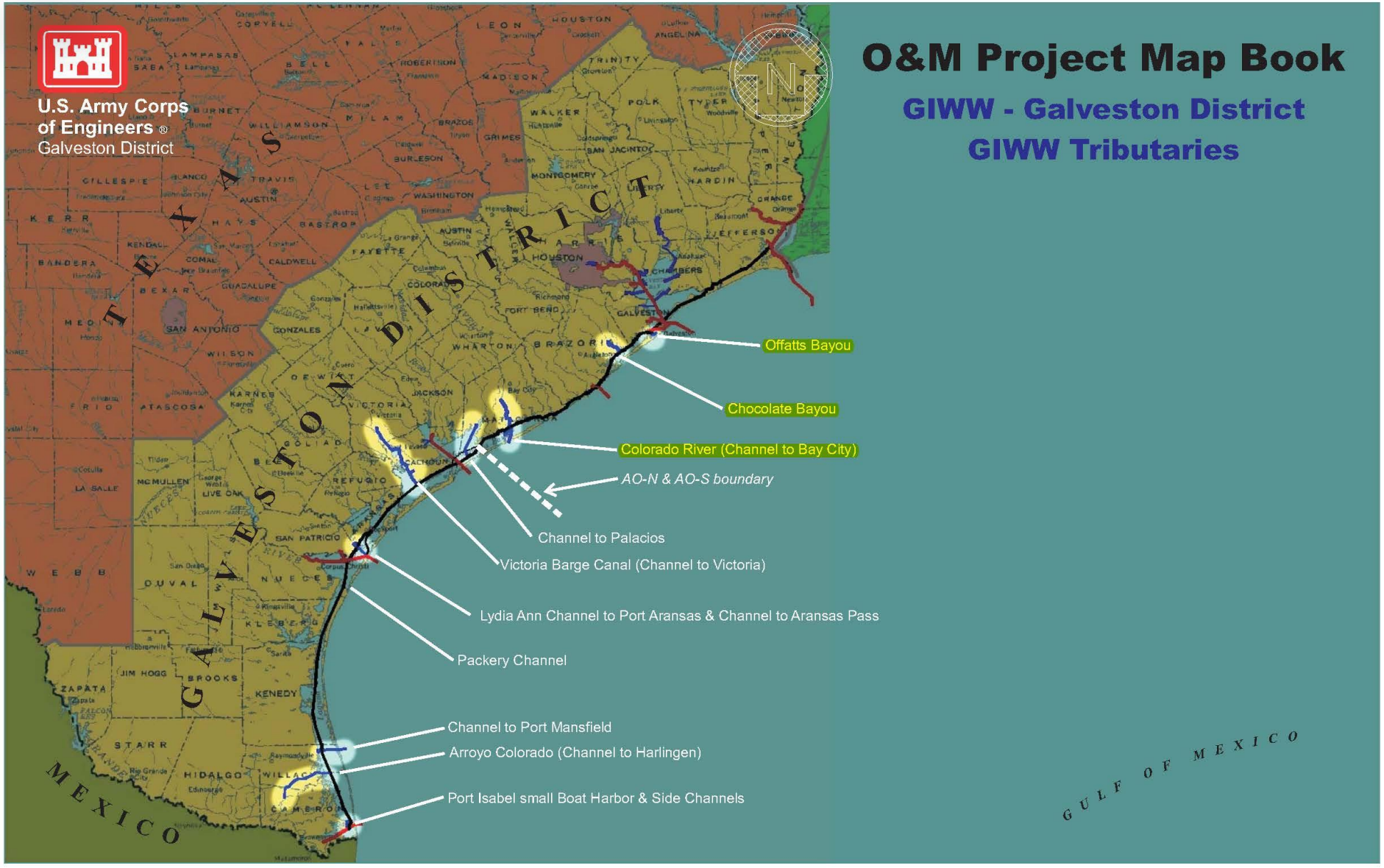
GULF INTRACOASTAL WATERWAY CORPUS CHRISTI TO PORT ISABEL/ CHANNEL TO HARLINGEN

Project:	**Channel to Harlingen**
Dredging Depth:	14 ft. Required Depth
Dredging Width:	125 ft.
Dredging Length:	Varies
Dredging Quantity:	1,500,000 cubic yards
Material Type:	Fine Silt/Sand
Placement Area:	Upland
Distance to Placement Area:	3 Miles Avg.
Type of Equipment:	Pipeline
Env. Window:	1 Mar. – 31 Aug.
Reason for Window:	Nesting Birds
Est. Start Date:	July 29, 2018
Est. Completion Date:	February 28, 2019

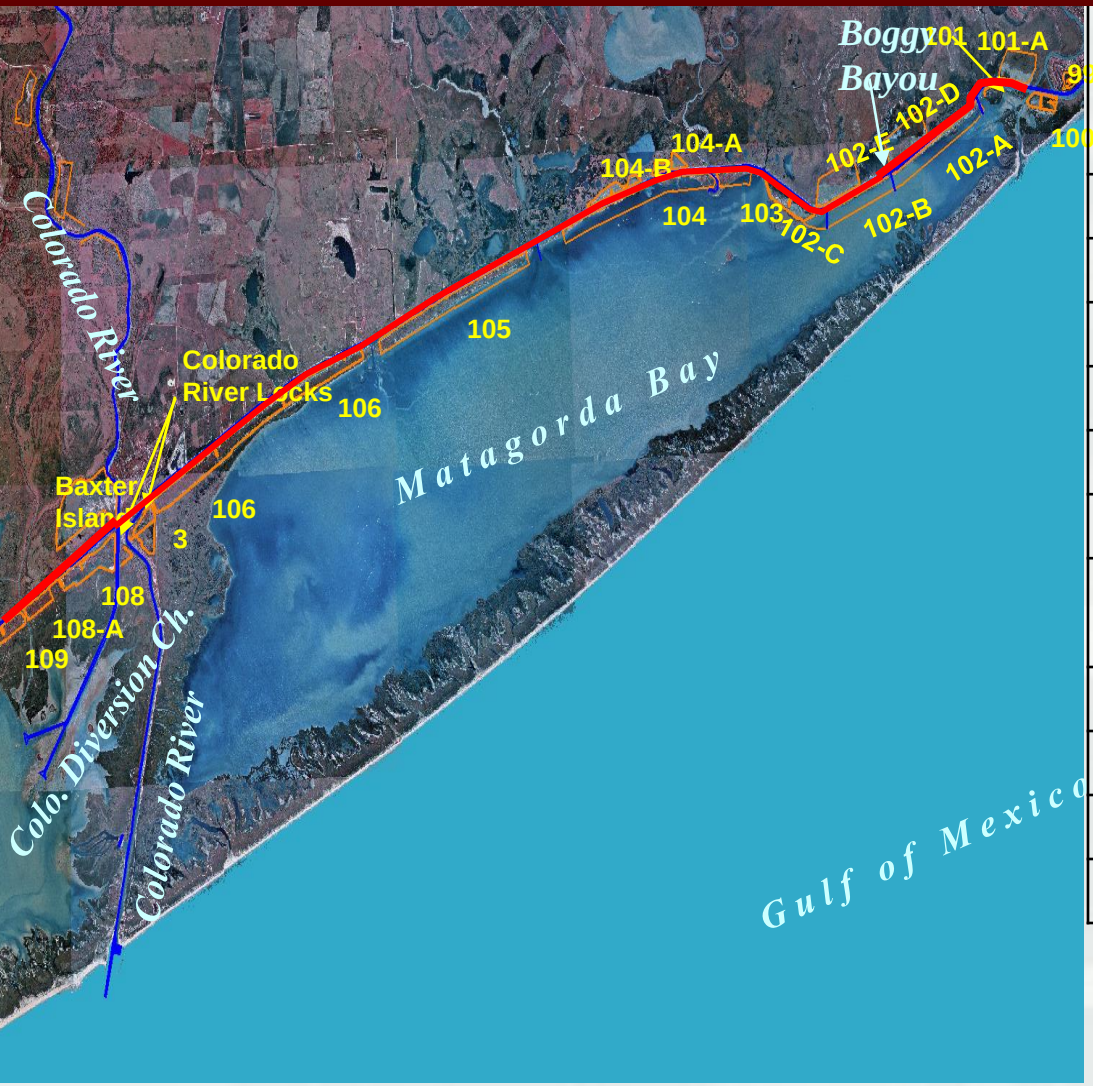
GULF INTRACOASTAL WATERWAY - ROLLOVER PASS TO GALVESTON CAUSEWAY & BOLIVAR FLARE

Project:	**Gulf Intracoastal Waterway Rollover to Causeway & Bolivar Flare**
Dredging Depth:	15 ft. Required Depth
Dredging Width:	125 ft.
Dredging Length:	Varies
Dredging Quantity:	800,000 cubic yards
Material Type:	Fine Sand/Silt
Placement Area:	Upland/Open Water/BU
Distance to Place Area:	2.0 Mile Avg.
Type of Equipment:	Pipeline
Env. Window:	N/A
Reason for Window:	N/A
Est. Start Date:	September 19, 2018
Est. Completion Date:	January 16, 2019

SHALLOW DRAFT
FY19 PLANNED CONTRACT SCHEDULES

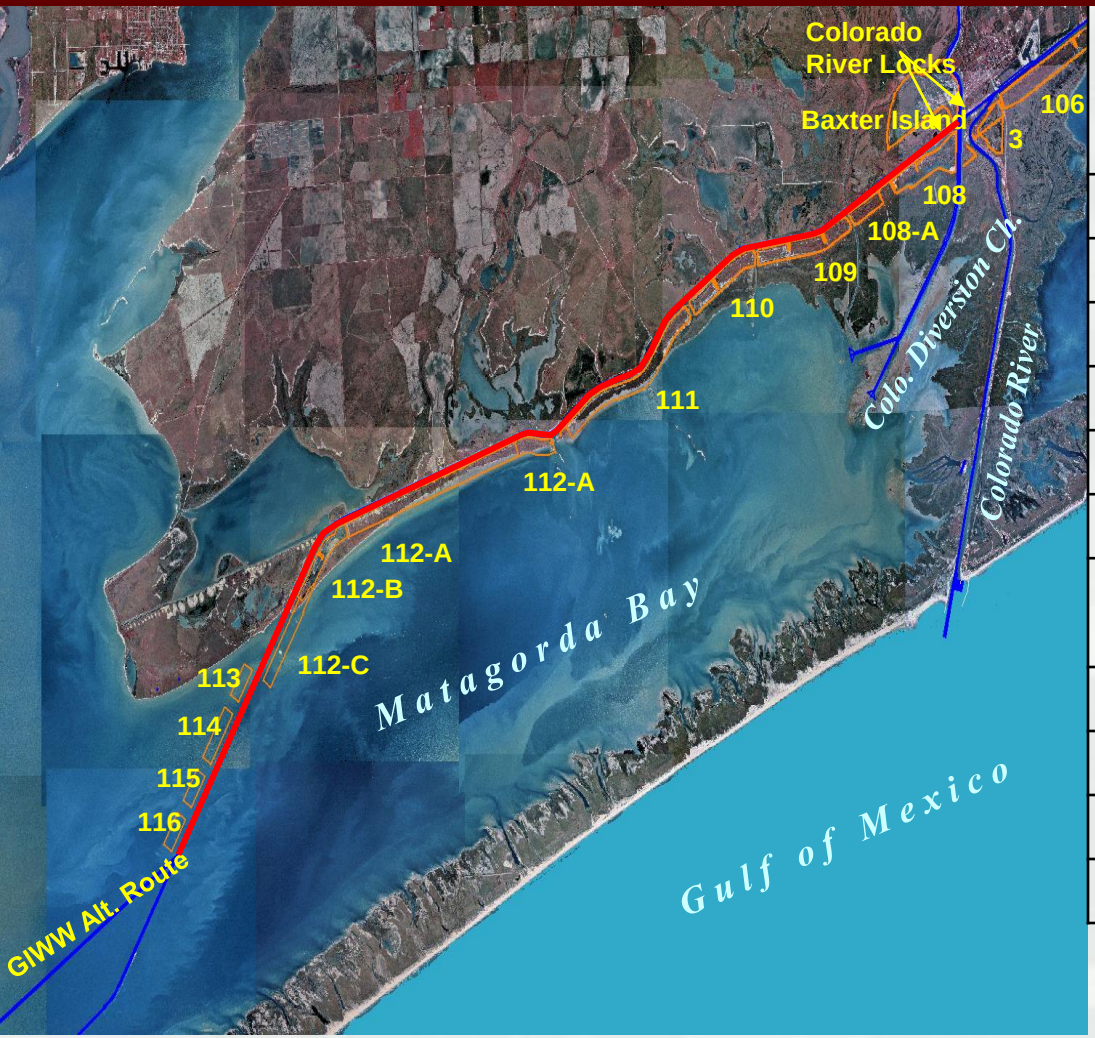


GULF INTRACOASTAL WATERWAY – CRANEY CREEK TO UPPER MATAGORDA BAY; BRAZOS RIVER CROSSING



Project:	Gulf Intracoastal Waterway Caney Creek to Upper Matagorda Bay; Brazos River Crossing
Dredging Depth:	14-16 ft. Required Depth
Dredging Width:	125 ft.
Dredging Length:	Varies
Dredging Quantity:	1,000,000 cubic yards
Material Type:	Fine Silt/Sand
Placement Area:	Open/Upland Confined
Distance to Placement Area:	2 Miles Avg.
Type of Equipment:	Pipeline
Env. Window:	NA
Reason for Window:	NA
Award:	March 1, 2019

GULF INTRACOASTAL WATERWAY – CRANEY CREEK TO UPPER MATAGORDA BAY; BRAZOS RIVER CROSSING

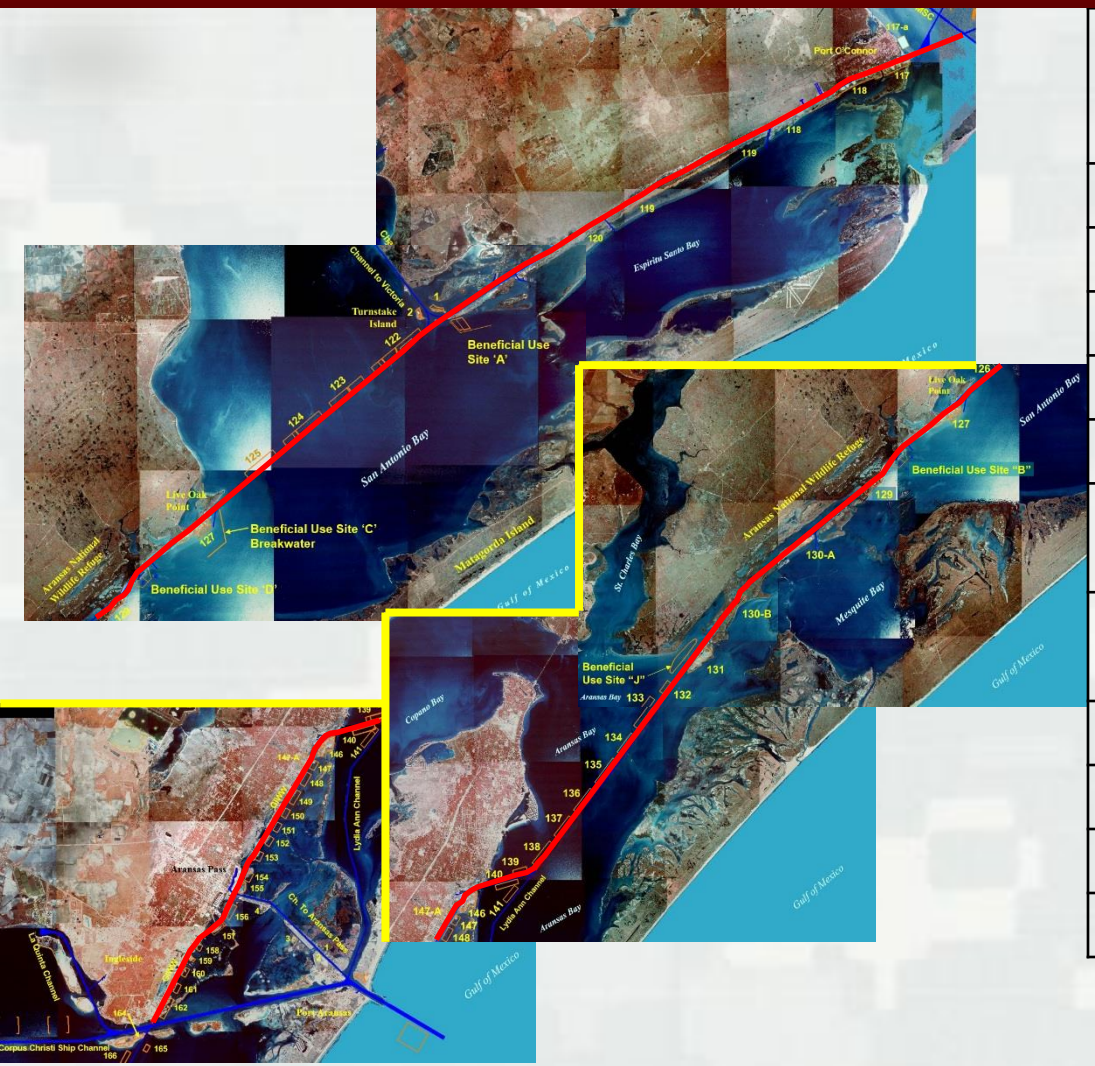


Project:	Gulf Intracoastal Waterway Caney Creek to Upper Matagorda Bay; Brazos River Crossing
Dredging Depth:	14-16 ft. Required Depth
Dredging Width:	125 ft.
Dredging Length:	Varies
Dredging Quantity:	1,000,000 cubic yards
Material Type:	Fine Silt/Sand
Placement Area:	Open/Upland Confined
Distance to Placement Area:	2 Miles Avg.
Type of Equipment:	Pipeline
Env. Window:	NA
Reason for Window:	NA
Award:	March 1, 2019

GULF INTRACOASTAL WATERWAY – CRANEY CREEK TO UPPER MATAGORDA BAY; BRAZOS RIVER CROSSING

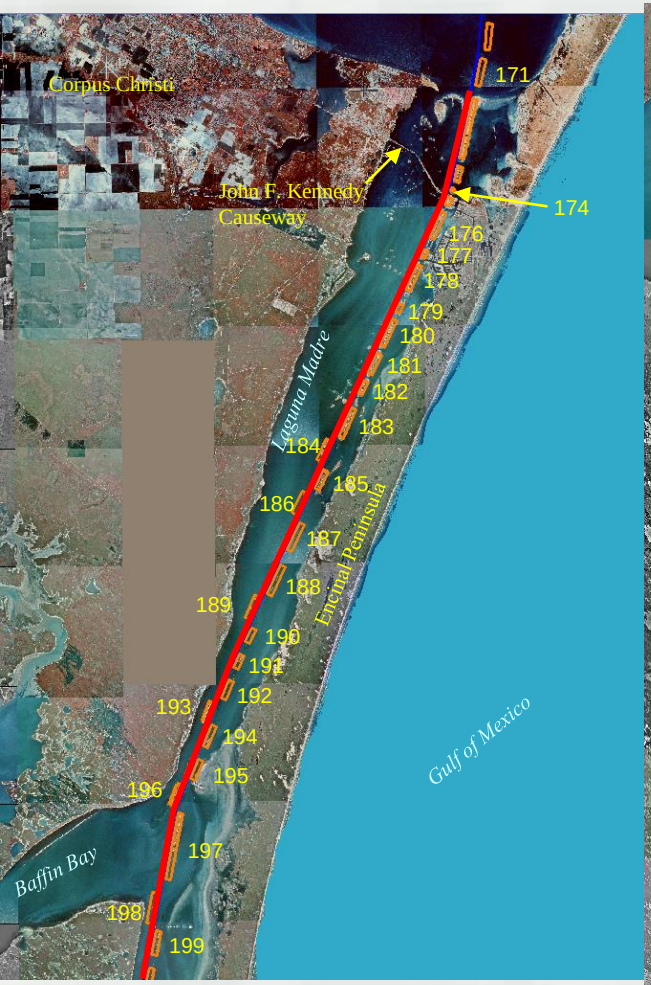
Project:	Gulf Intracoastal Waterway Caney Creek to Upper Matagorda Bay; Brazos River Crossing
Dredging Depth:	16 ft. Required Depth
Dredging Width:	125 ft.
Dredging Length:	Varies
Dredging Quantity:	1,000,000 cubic yards
Material Type:	Fine Silt/Sand
Placement Area:	Open/Upland Confined
Distance to Placement Area:	1 Miles Avg.
Type of Equipment:	Pipeline
Env. Window:	NA
Reason for Window:	NA
Award:	March 1, 2019

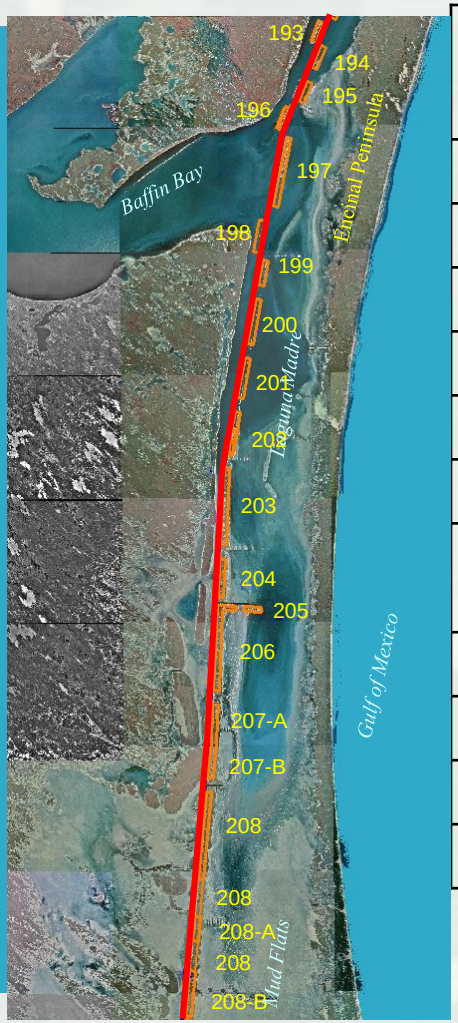
GULF INTRACOASTAL WATERWAY – ACROSS SAN ANTONIO BAY; MATAGORDA BAY TO CORPUS CHRISTI; MSC INTERSECTION



Project:	GIWW - Across San Antonio Bay / Matagorda Bay to Corpus Christi; GIWW / MSC Intersection
Dredging Depth:	14-16 ft. Required Depth
Dredging Width:	125 ft.
Dredging Length:	Varies
Dredging Quantity:	1,000,000 cubic yards
Material Type:	Fine Silt/Sand
Placement Area:	Open/Upland Confined/BU
Distance to Placement Area:	1 Miles Avg.
Type of Equipment:	Pipeline
Env. Window:	NA
Reason for Window:	NA
Award:	March 19, 2019

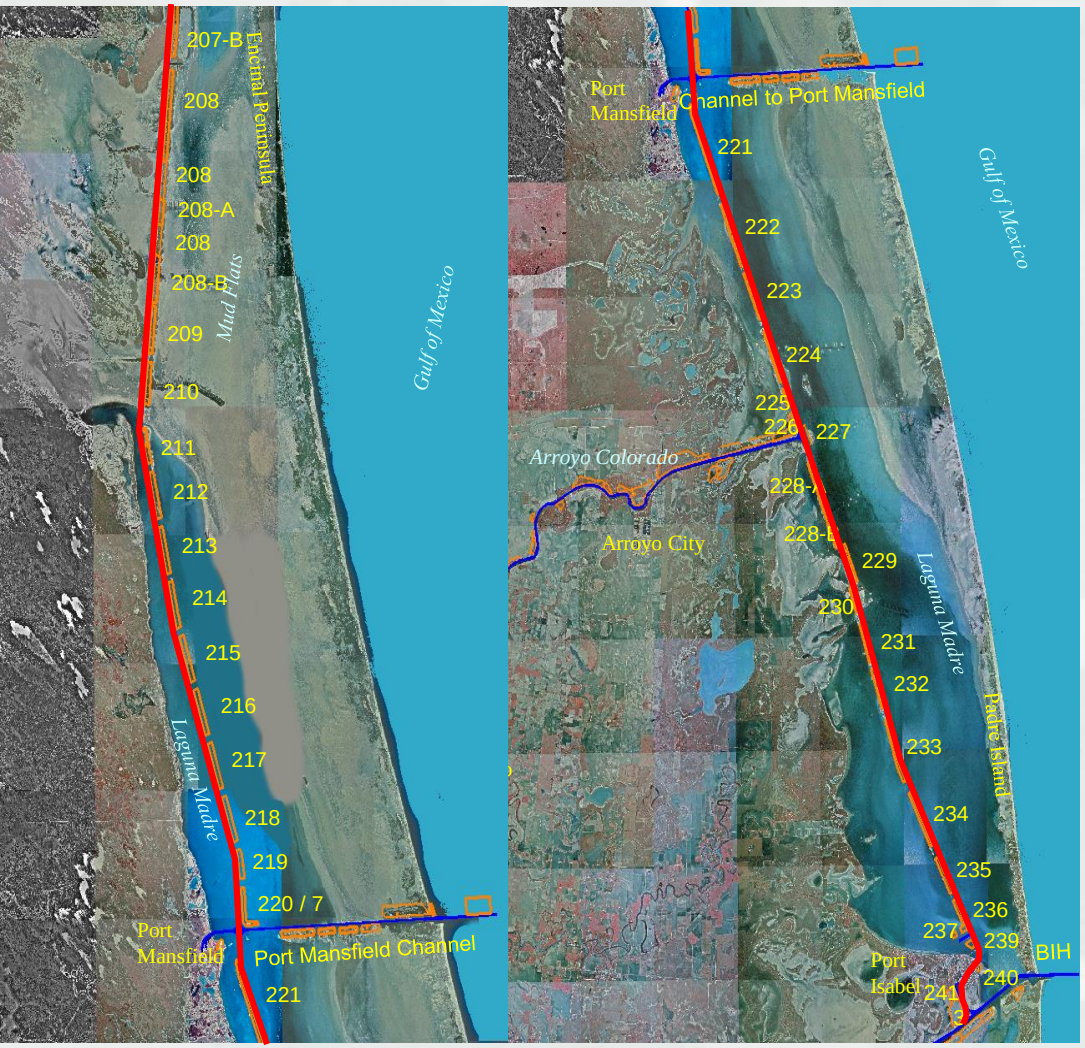
GULF INTRACOASTAL WATERWAY CORPUS CHRISTI TO PORT ISABEL/ CHANNEL TO HARLINGEN





Project:	Gulf Intracoastal Waterway Corpus Christi to Port Isabel/ Channel to Harlingen
Dredging Depth:	14 ft. Required Depth
Dredging Width:	125 ft.
Dredging Length:	Varies
Dredging Quantity:	1,500,000 cubic yards
Material Type:	Fine Silt/Sand
Placement Area:	Open/BU Sites
Distance to Placement Area:	3 Miles Avg.
Type of Equipment:	Pipeline
Env. Window:	1 Nov. - 28 Feb.
Reason for Window:	Seagrass
Award:	August 15, 2019

GULF INTRACOASTAL WATERWAY CORPUS CHRISTI TO PORT ISABEL/ CHANNEL TO HARLINGEN

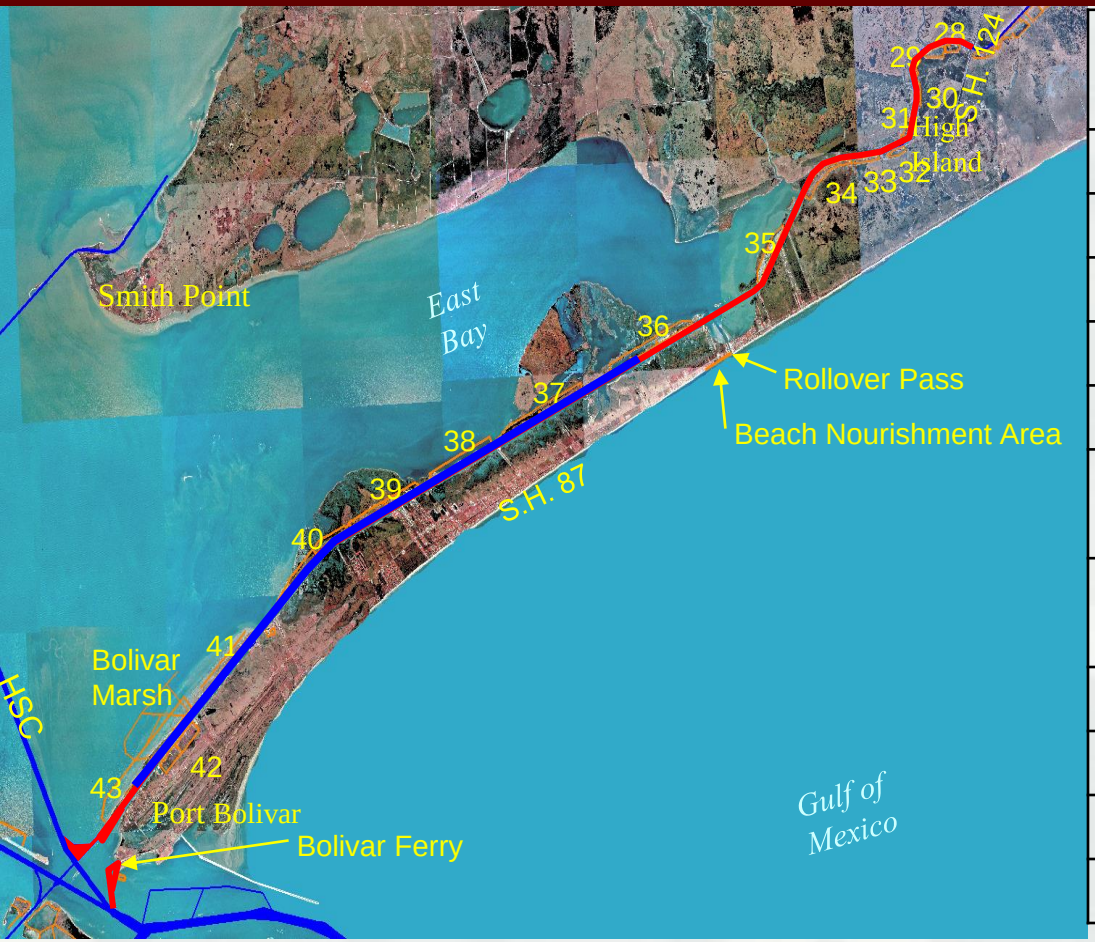


Project:	Gulf Intracoastal Waterway Corpus Christi to Port Isabel/ Channel to Harlingen
Dredging Depth:	14 ft. Required Depth
Dredging Width:	125 ft.
Dredging Length:	Varies
Dredging Quantity:	1,500,000 cubic yards
Material Type:	Fine Silt/Sand
Placement Area:	Open/BU Sites
Distance to Placement Area:	3 Miles Avg.
Type of Equipment:	Pipeline
Env. Window:	1 Nov. - 28 Feb.
Reason for Window:	Seagrass
Award:	August 15, 2019

GULF INTRACOASTAL WATERWAY CORPUS CHRISTI TO PORT ISABEL/ CHANNEL TO HARLINGEN

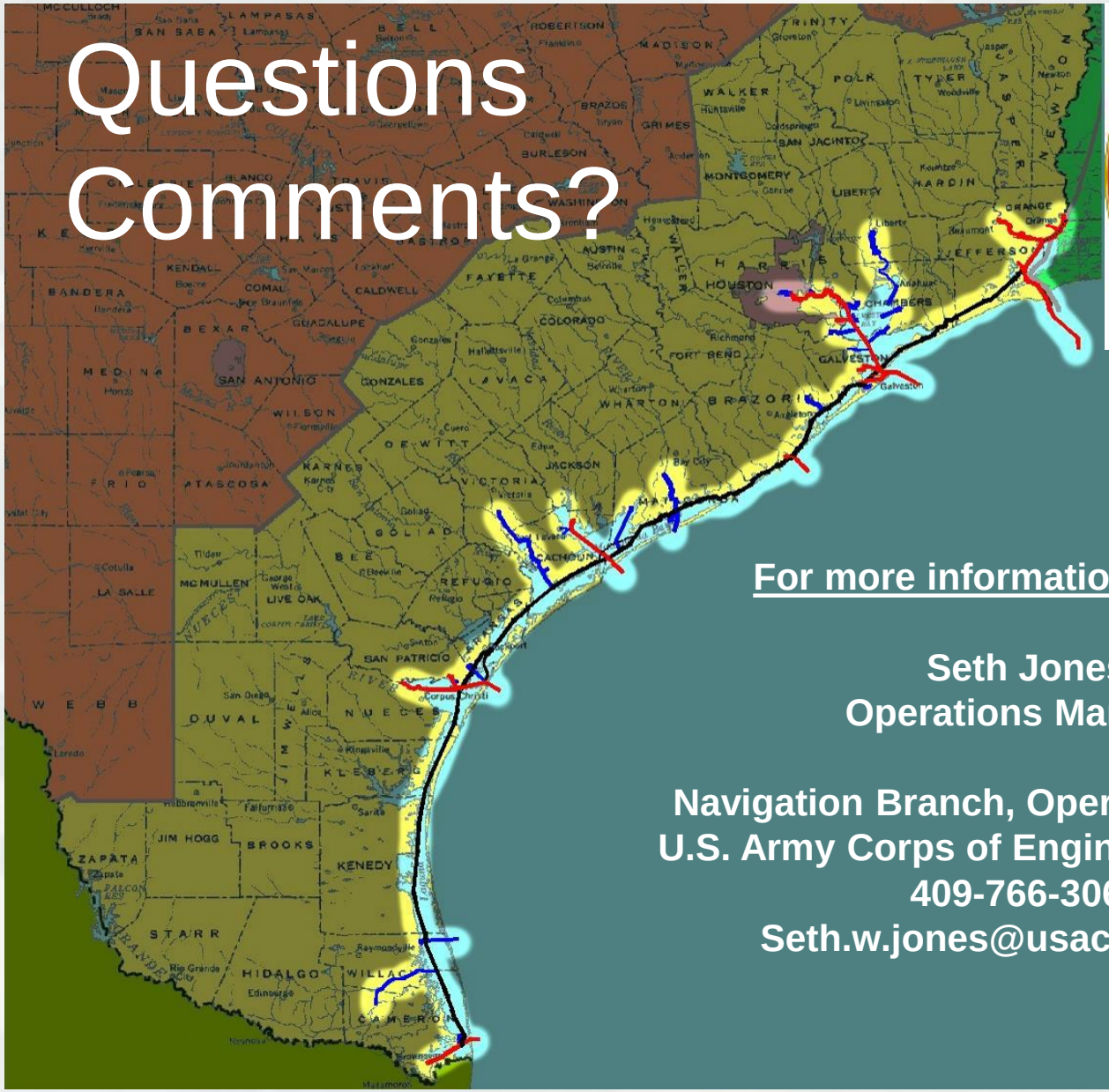
Project:	**Channel to Harlingen**
Dredging Depth:	14 ft. Required Depth
Dredging Width:	125 ft.
Dredging Length:	Varies
Dredging Quantity:	1,500,000 cubic yards
Material Type:	Fine Silt/Sand
Placement Area:	Upland
Distance to Placement Area:	3 Miles Avg.
Type of Equipment:	Pipeline
Env. Window:	1 Mar. – 31 Aug.
Reason for Window:	Nesting Birds
Award:	August 15, 2019

GULF INTRACOASTAL WATERWAY – HIGH ISLAND TO ROLLOVER; BOLIVAR FLARE; CHANNEL TO PORT BOLIVAR



Project:	GIWW - High Island to Rollover; Bolivar Flare; Channel to Port Bolivar
Dredging Depth:	15 ft. Required Depth
Dredging Width:	125 ft.
Dredging Length:	Varies
Dredging Quantity:	800,000 cubic yards
Material Type:	Fine Silt/Sand
Placement Area:	Open/Upland Confined/BU
Distance to Placement Area:	1 Miles Avg.
Type of Equipment:	Pipeline
Env. Window:	NA
Reason for Window:	NA
Award:	September 17, 2019

Questions Comments?



For more information, contact:

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409-766-3068
Seth.w.jones@usace.army.mil

Cedar Bayou

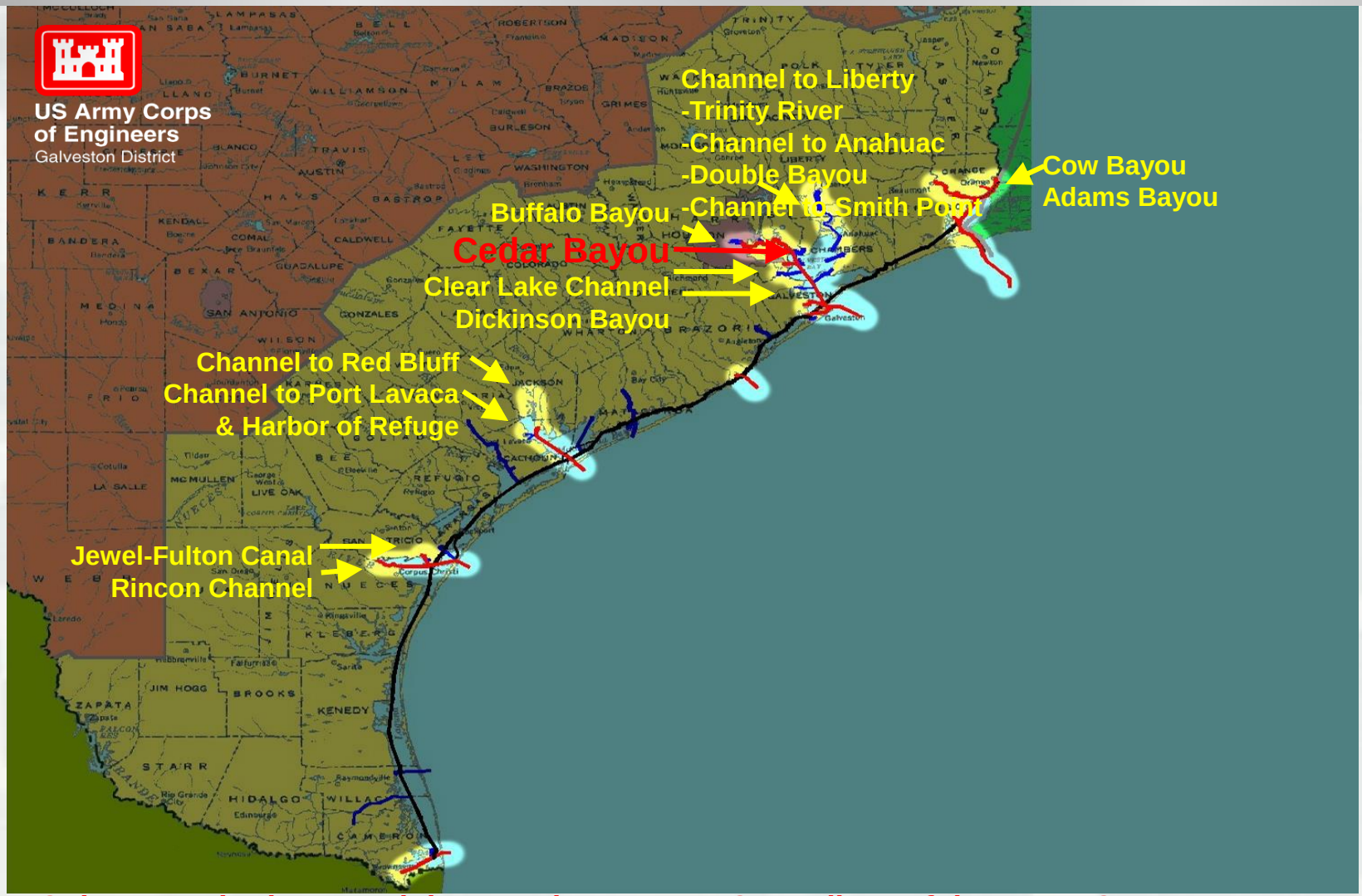
Ashton Burgin
Operations Manager
Navigation Branch
31 October 2017

Galveston District – Dredging Meeting

Custodians of the Texas Coast

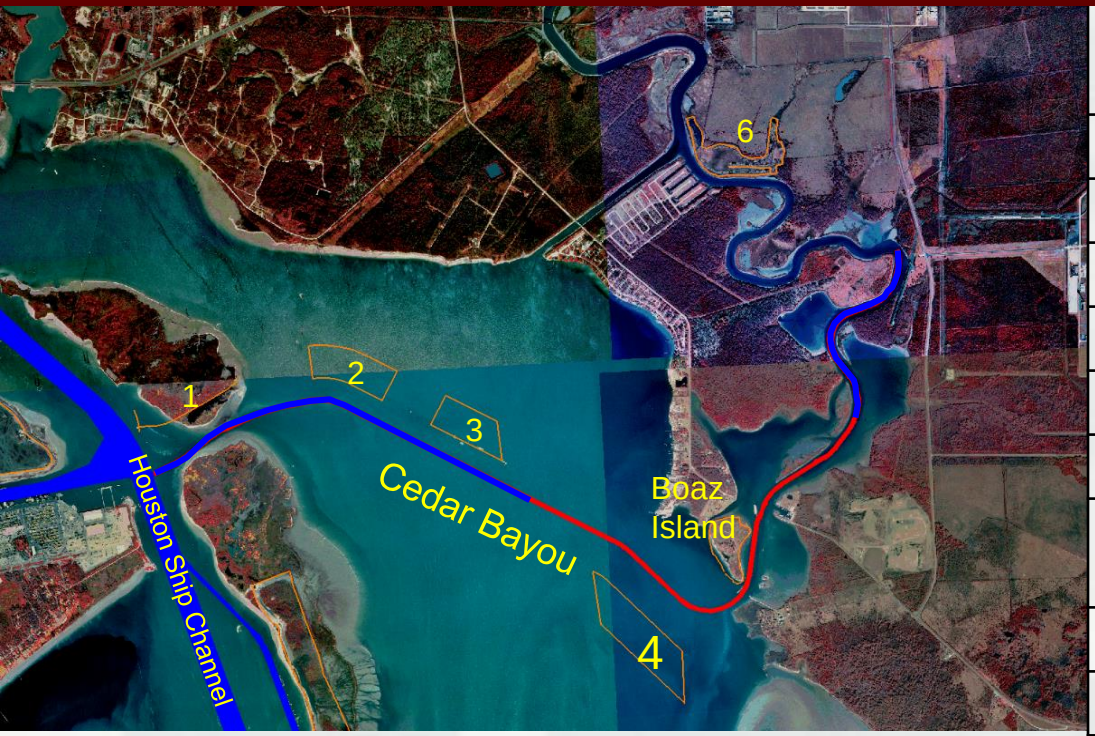
US Army Corps of Engineers
BUILDING STRONG®

SHALLOW DRAFT TRIBUTARIES
FY18 CONTRACT SCHEDULE



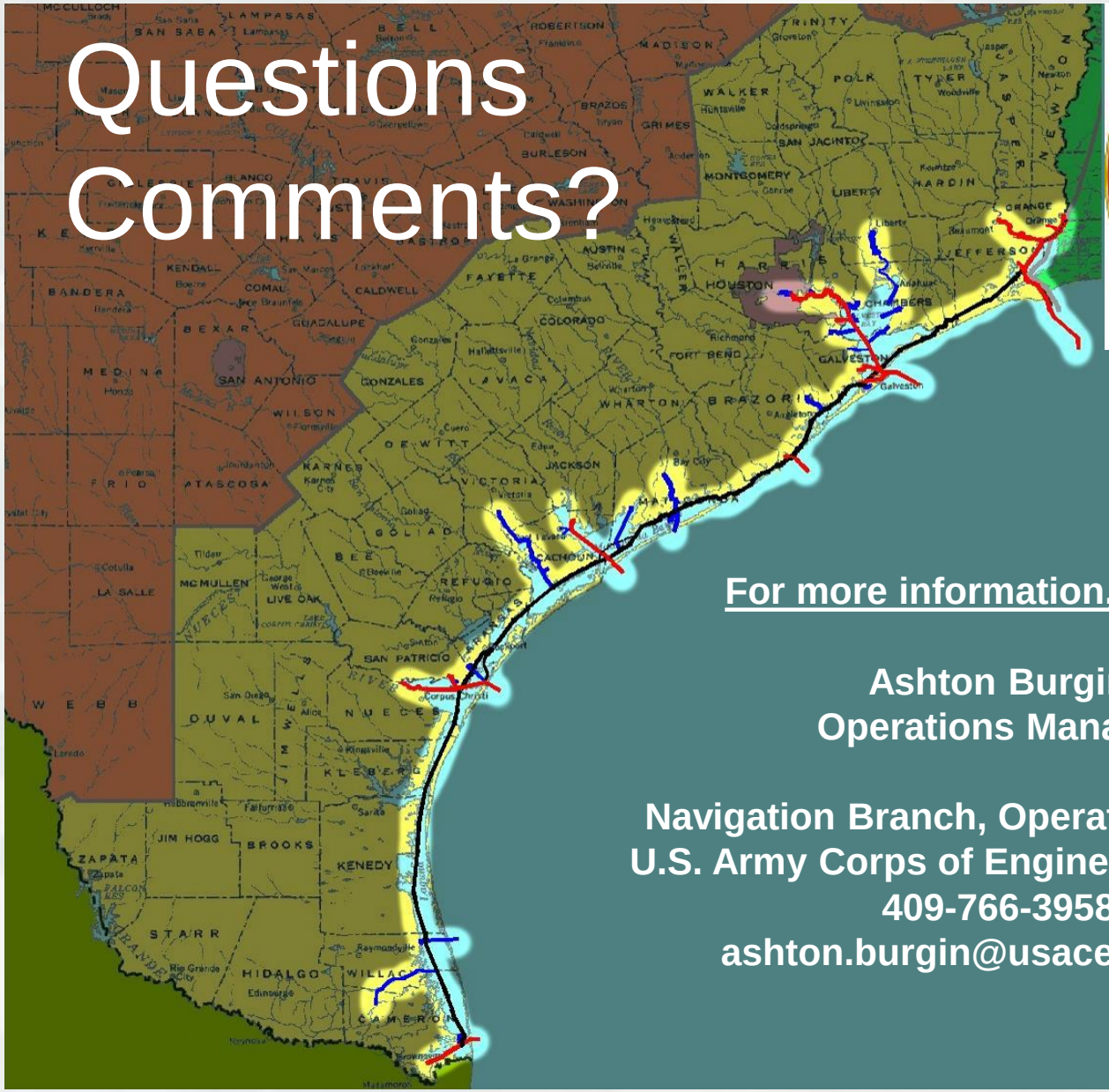
HOUSTON SHIP CHANNEL TRIBUTARIES
CEDAR BAYOU

CEDAR BAYOU



Project:	Cedar Bayou
Dredging Depth:	12 ft. Required Depth
Dredging Width:	100 ft.
Dredging Length:	Varies
Dredging Quantity:	680,000 cubic yards
Material Type:	Silt/Sand
Placement Area:	Open water
Distance to Placement Area:	4 Mile Avg.
Type of Equipment:	Pipeline Dredge
Env. Window:	NA
Reason for Window:	NA
Start Date:	November 1, 2018
Est. Completion Date:	February 12, 2019

Questions Comments?



U.S. ARMY CORPS OF ENGINEERS
ESTABLISHED 1880
GALVESTON DISTRICT

For more information, contact:

Ashton Burgin
Operations Manager

Navigation Branch, Operations Division
U.S. Army Corps of Engineers, Galveston
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ashton.burgin@usace.army.mil

Brazos River Floodgates, Colorado River Locks & Mooring Buoy Maintenance

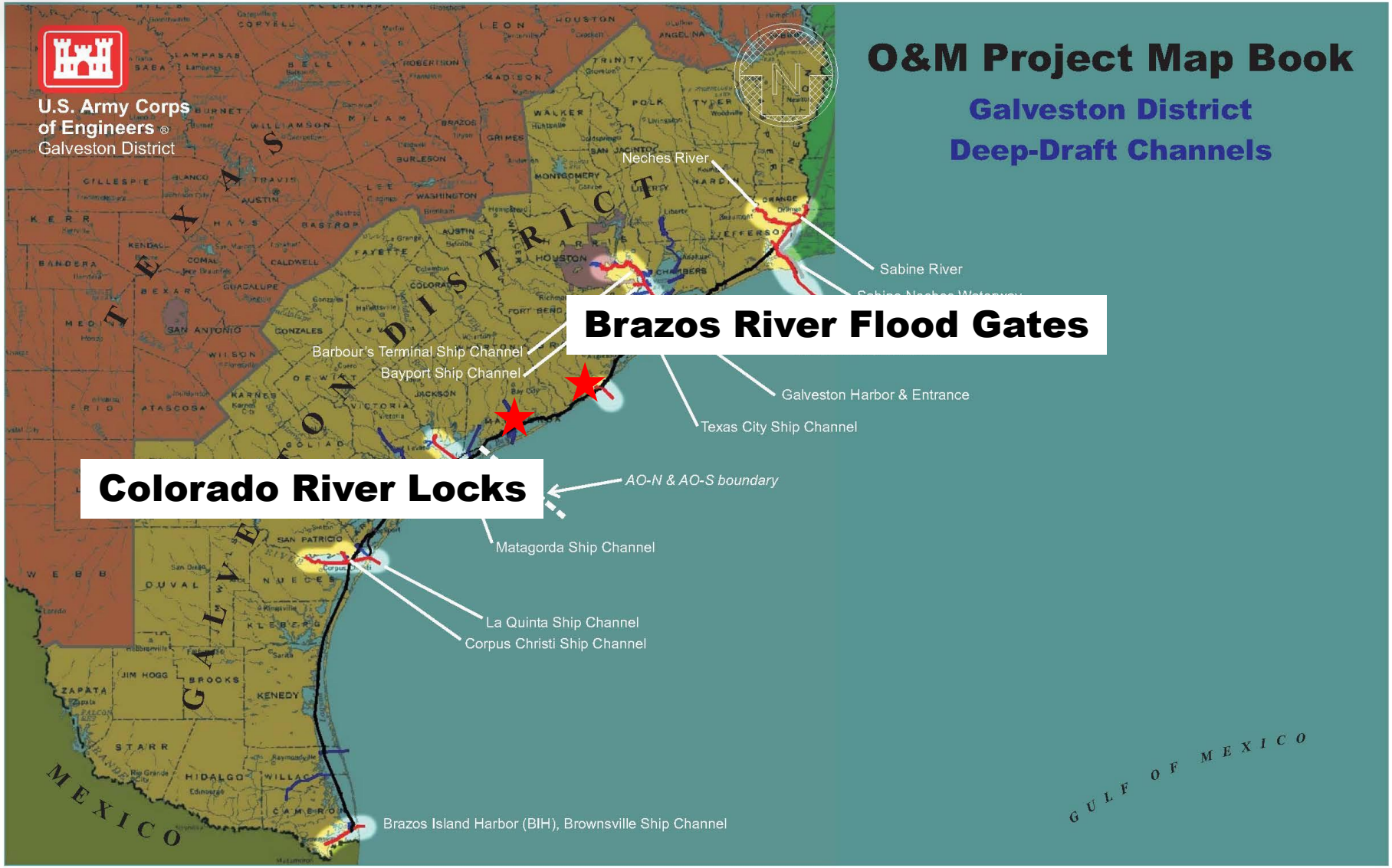
Eric Russek, P.E.
Operations Manager
Project Operations Br, Galveston
31 October 2017

Galveston District – Dredging Meeting

Custodians of the Texas Coast

US Army Corps of Engineers
BUILDING STRONG®

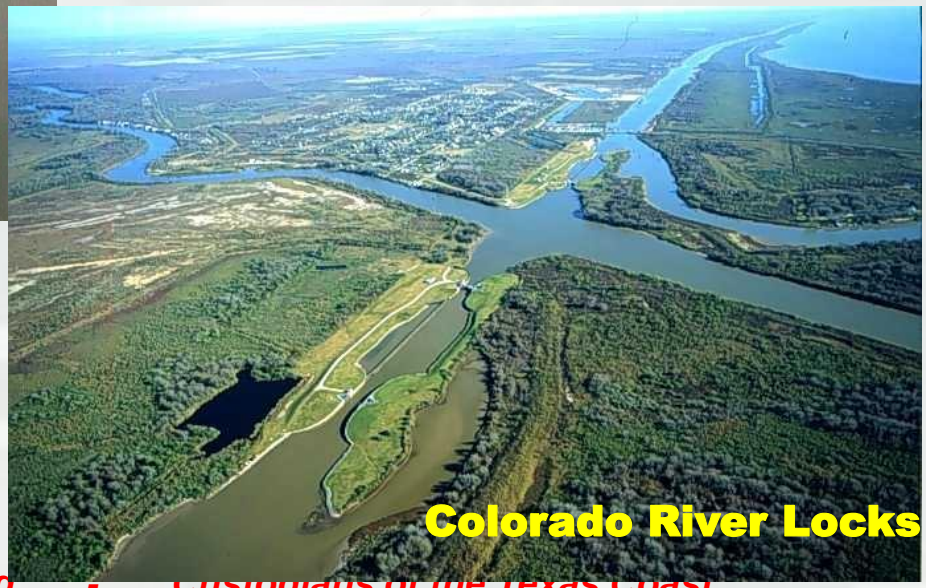
Navigation Project Facilities



Navigation Project Facilities

Brazos River Floodgates

- **Minimize shoaling at river crossings**
- **Safety**



Colorado River Locks

FY 2018 Contract
Brazos River Floodgates
And Colorado River Locks

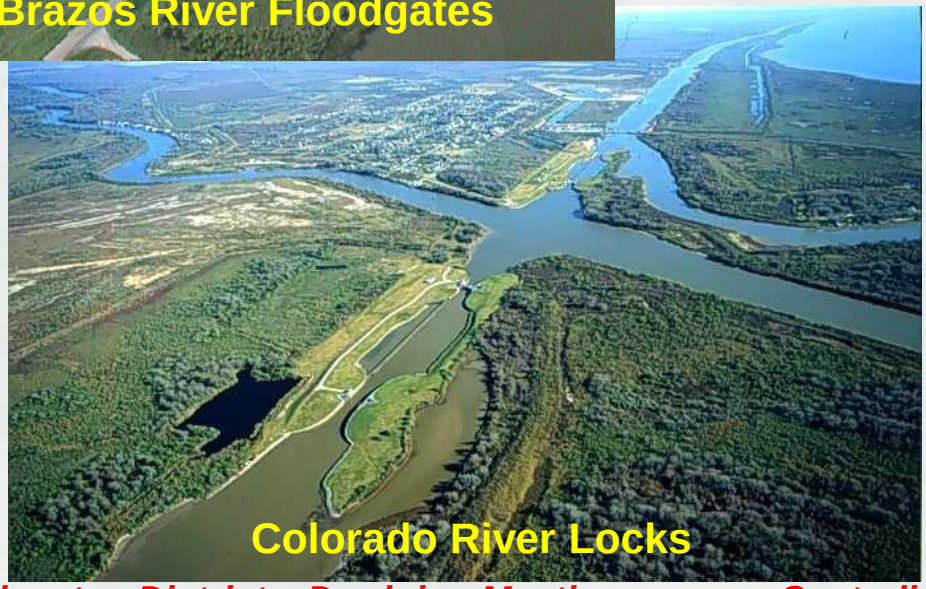
GULF INTRACOASTAL WATERWAY
BRFG & CRL Consolidated Repairs

Brazos River Flood Gates and Colorado River Locks	Consolidated Repairs
Dredging Depth:	NA
Dredging Width:	NA
Dredging Length:	NA
Dredging Quantity:	NA
Material Type:	NA
Placement Area:	NA
Type of Equipment:	Structural and Building Components
Env. Window:	NA
Reason for Window:	NA
Est. Start Date:	July 23, 2018
Est. Completion Date:	January 19, 2019

FY 2019 Contract
Brazos River Floodgates
And Colorado River Locks

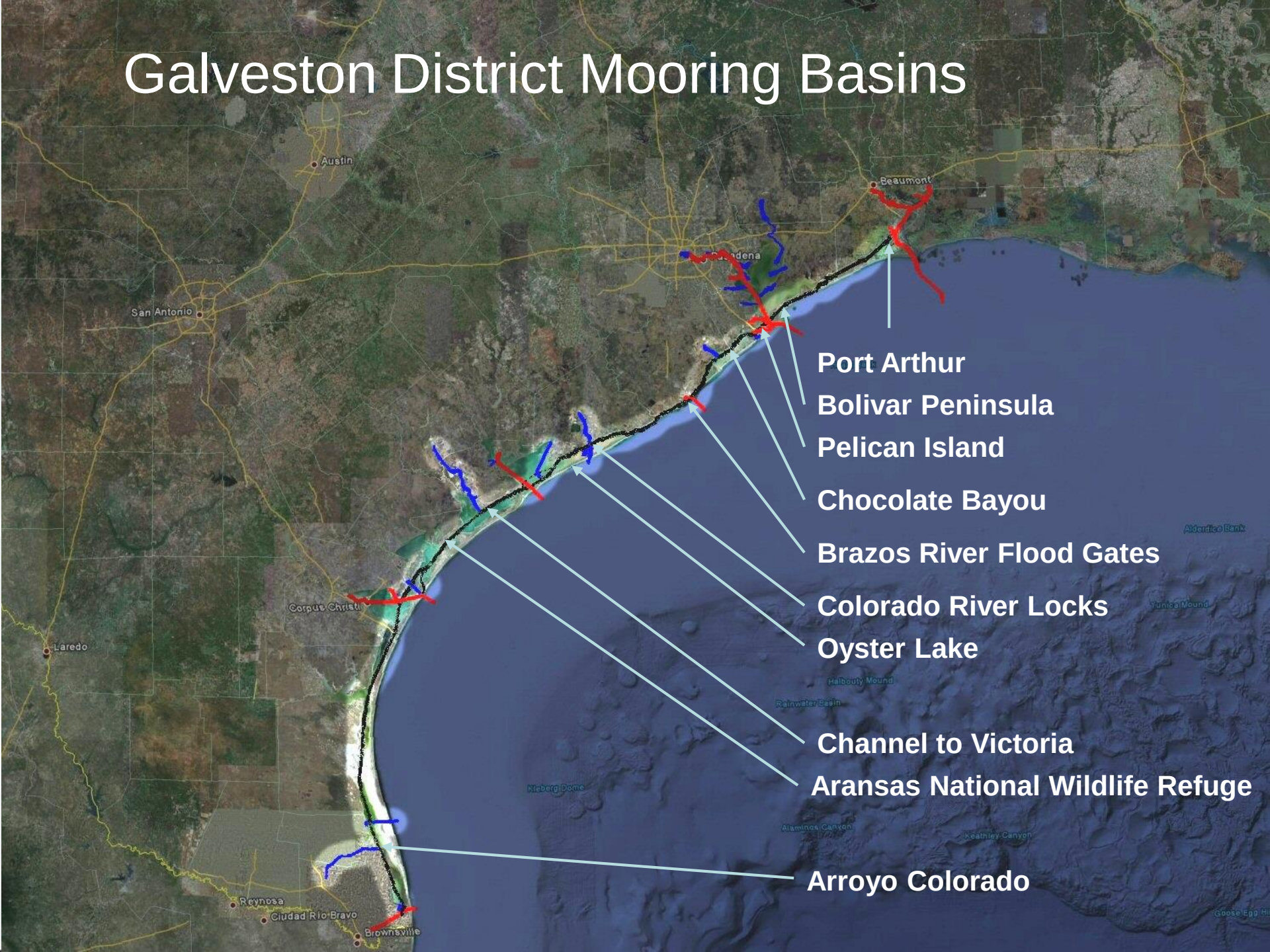
GULF INTRACOASTAL WATERWAY
BRFG & CRL Consolidated Repairs


Brazos River Floodgates


Colorado River Locks

Brazos River Flood Gates and Colorado River Locks	Consolidated Repairs
Dredging Depth:	NA
Dredging Width:	NA
Dredging Length:	NA
Dredging Quantity:	NA
Material Type:	NA
Placement Area:	NA
Type of Equipment:	Miscellaneous Facility Items
Env. Window:	NA
Reason for Window:	NA
Est. Start Date:	3rd Quarter FY19
Est. Completion Date:	1st Quarter FY20

Galveston District Mooring Basins



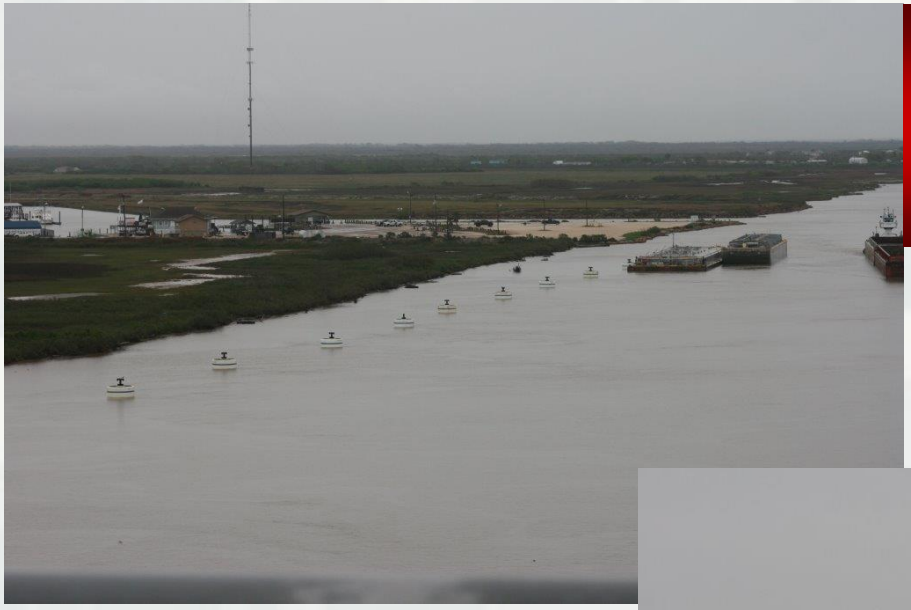
Mooring Buoy Update
GIWW

- Buoy Procurement
  - Twenty of 50 buoys from last Contract have been received and will be deployed in buoy re-spacing project. Anticipate the remaining 30 buoys delivered within the next 60-120 days
- Buoy Re-Spacing
  - USACE Wilmington District marine crew (*M/V Snell*) re-spacing and installing buoys at 5 priority basins: BRFG, CRL, Pelican Island, Bolivar Peninsula and Port Arthur. BRFG and CRL are complete.
  - M/V Snell and crew performing additional marine work within Galveston District boundaries
- Truston Buoy Repairs
  - Forensic investigation of buoys was performed at contractor's facility and resulted in problem identification
  - Contractor and USACE have determined a solution, design, and share in the cost for retrofitting the buoys such that they can be safely deployed
- Buoy Maintenance Service Contract
  - Task Orders awarded in August 2017 under a Blanket Purchase Agreement
  - React faster to buoy needs and provide for ability to address multiple basins concurrently

Brazos River Flood Gates
Freeport, Texas

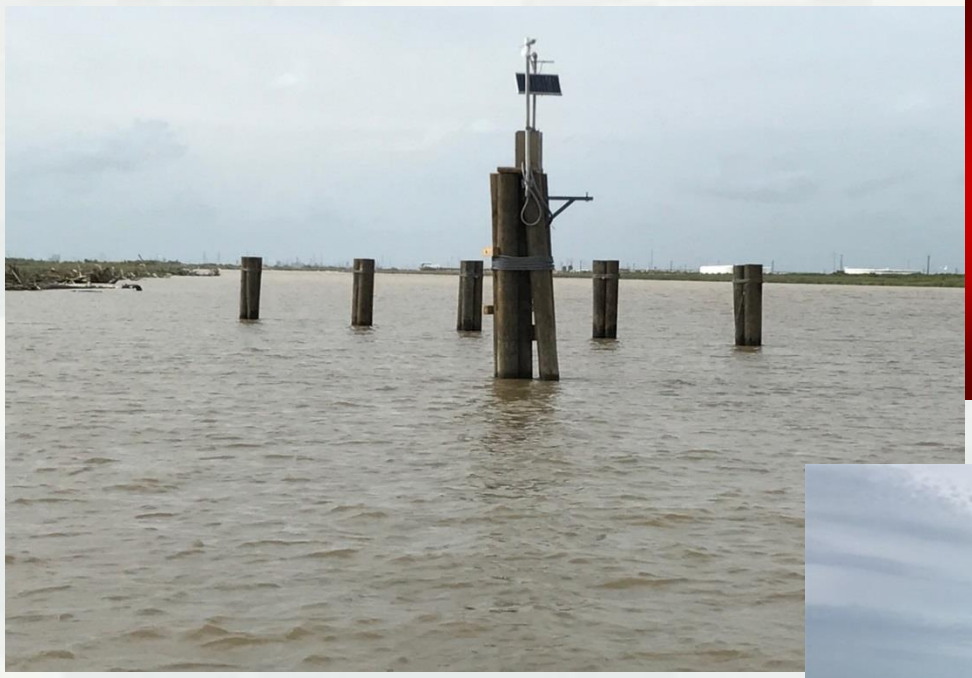
A total of 36 buoys have been re-spaced to 150’ on center and installed at BRFG – 9 buoys per bank

Colorado River Locks
Matagorda, Texas



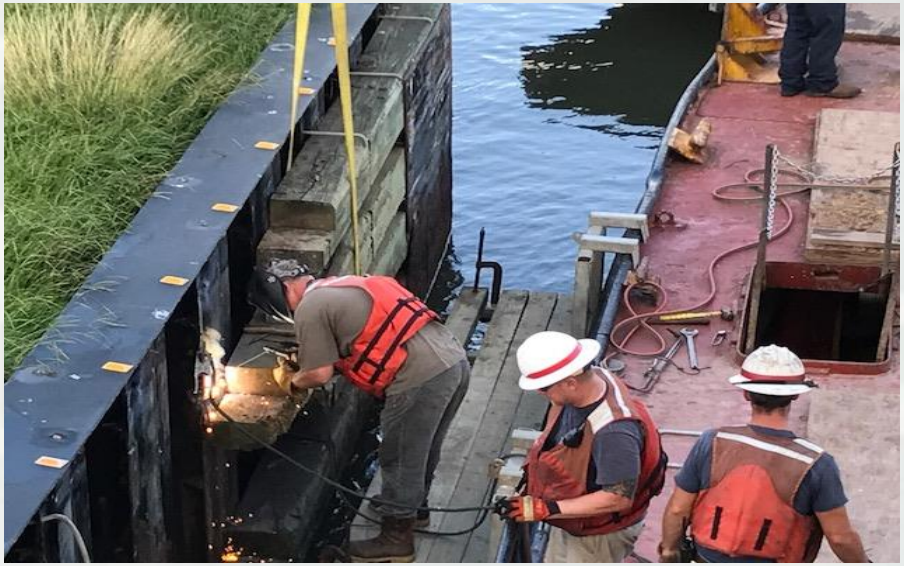
A total of 40 buoys have been re-spaced to 150’ on center and installed at CRL – 10 buoys per bank

Brazos and Colorado Rivers US Geological Survey Pile Clusters for Data Collection Platforms



Two six-pile clusters were installed for the USGS Data Collection Platforms (DCPs) in the Brazos and Colorado Rivers. A total of five, three-pile clusters were installed in front of the Brazos DCP to deflect debris travelling down river.

Colorado River Locks Guidewall Repairs



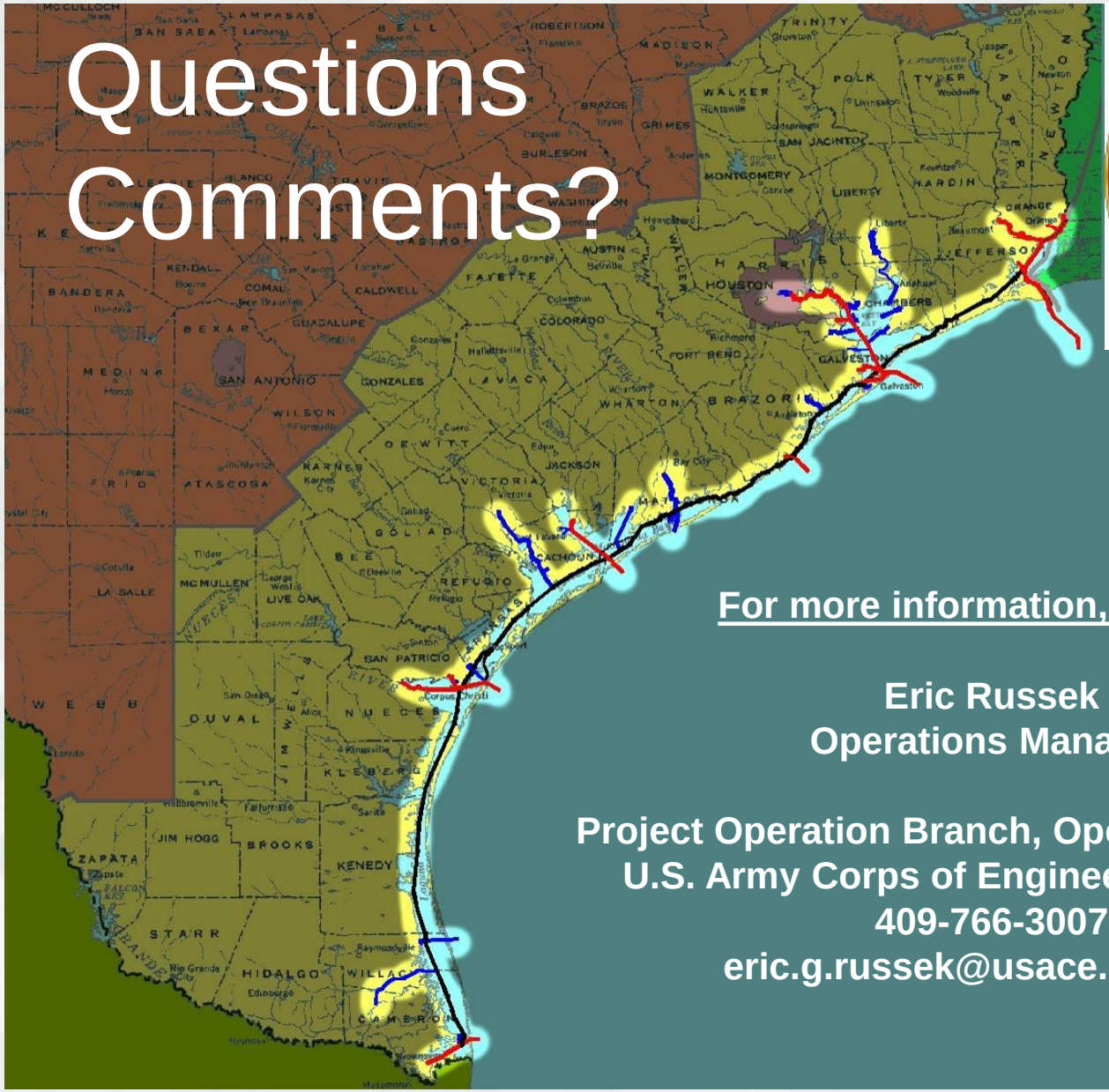
Brazos River Flood Gates Boathouse Dredging

Over 1,500 CY of dredged material (approximately 6’ thick) and 3 tons of debris were removed from the BRFG boathouse

US Fish and Wildlife Service
Port O'Connor, Texas

A total of fifteen, 40' long pilings were installed at the USFWS boat basin after removing existing, deteriorated pilings

Questions Comments?



For more information, contact:

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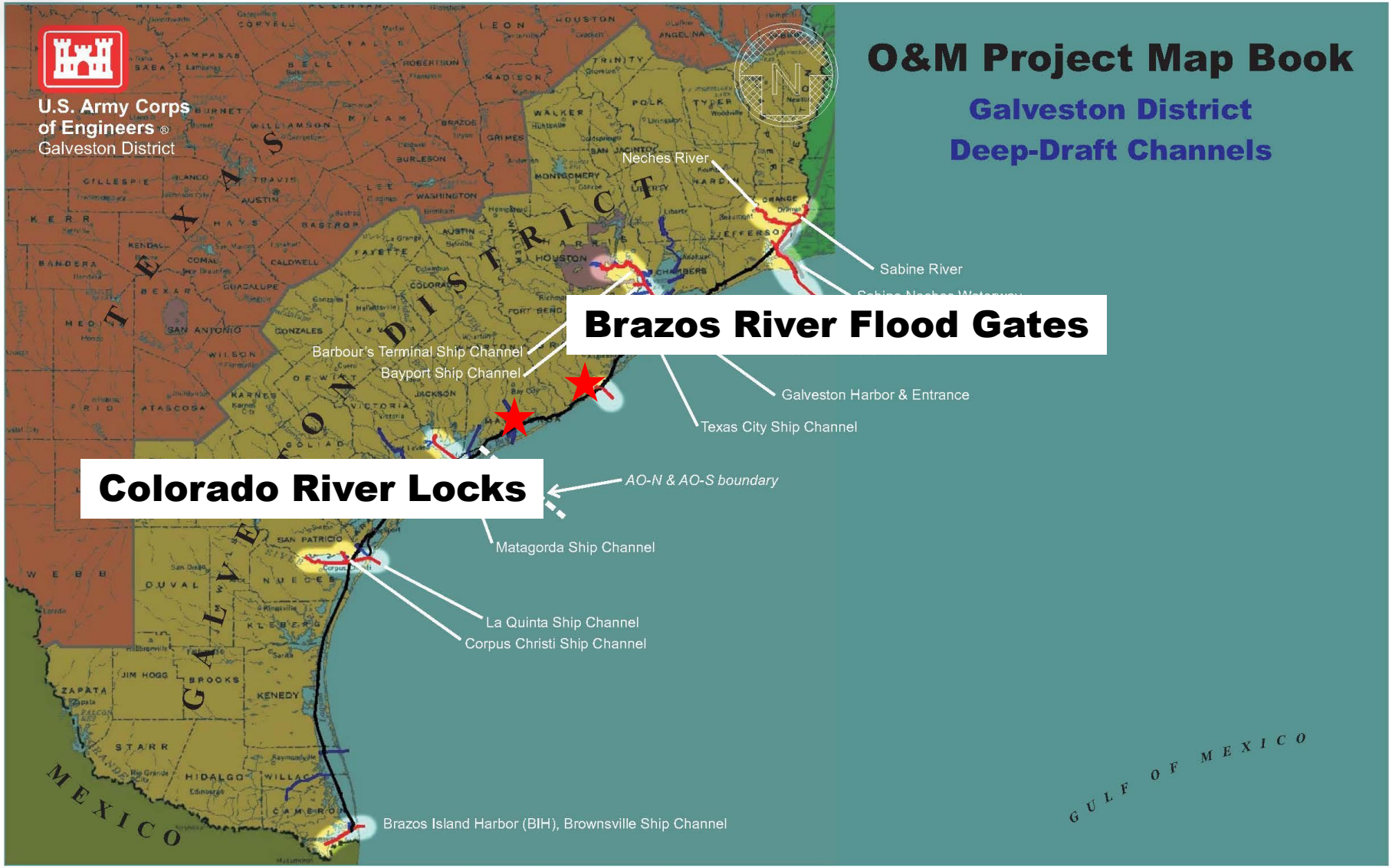
U.S. Army Corps of Engineers, Galveston
409-766-3007
eric.g.russek@usace.army.mil

Navigation Project Facilities



Navigation Project Facilities

Brazos River Floodgates

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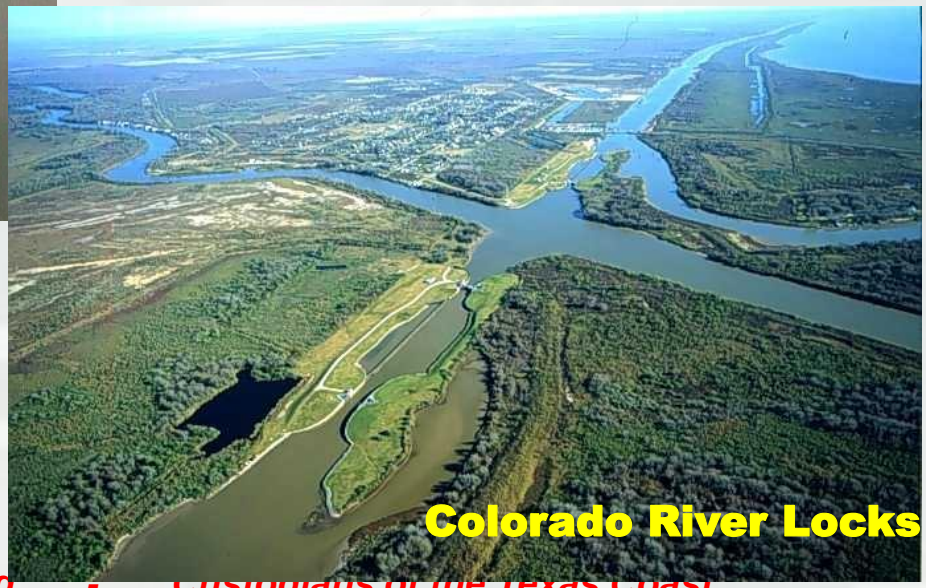
- **Safety**



Colorado River Locks

FY 2018 Contract
Brazos River Floodgates
And Colorado River Locks

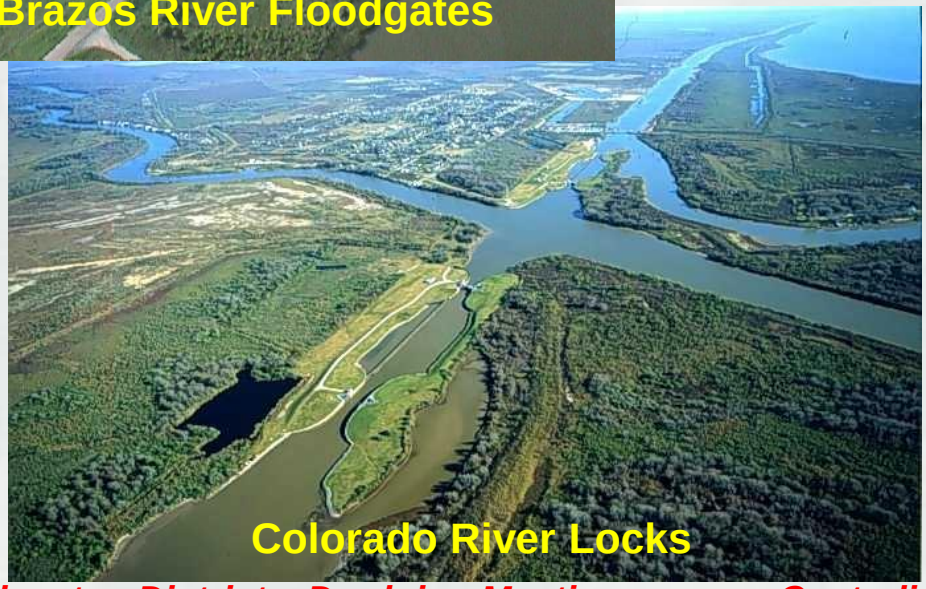
GULF INTRACOASTAL WATERWAY
BRFG & CRL Consolidated Repairs

Brazos River Flood Gates and Colorado River Locks	Consolidated Repairs
Dredging Depth:	NA
Dredging Width:	NA
Dredging Length:	NA
Dredging Quantity:	NA
Material Type:	NA
Placement Area:	NA
Type of Equipment:	Structural and Building Components
Env. Window:	NA
Reason for Window:	NA
Est. Start Date:	July 23, 2018
Est. Completion Date:	January 19, 2019

FY 2019 Contract
Brazos River Floodgates
And Colorado River Locks

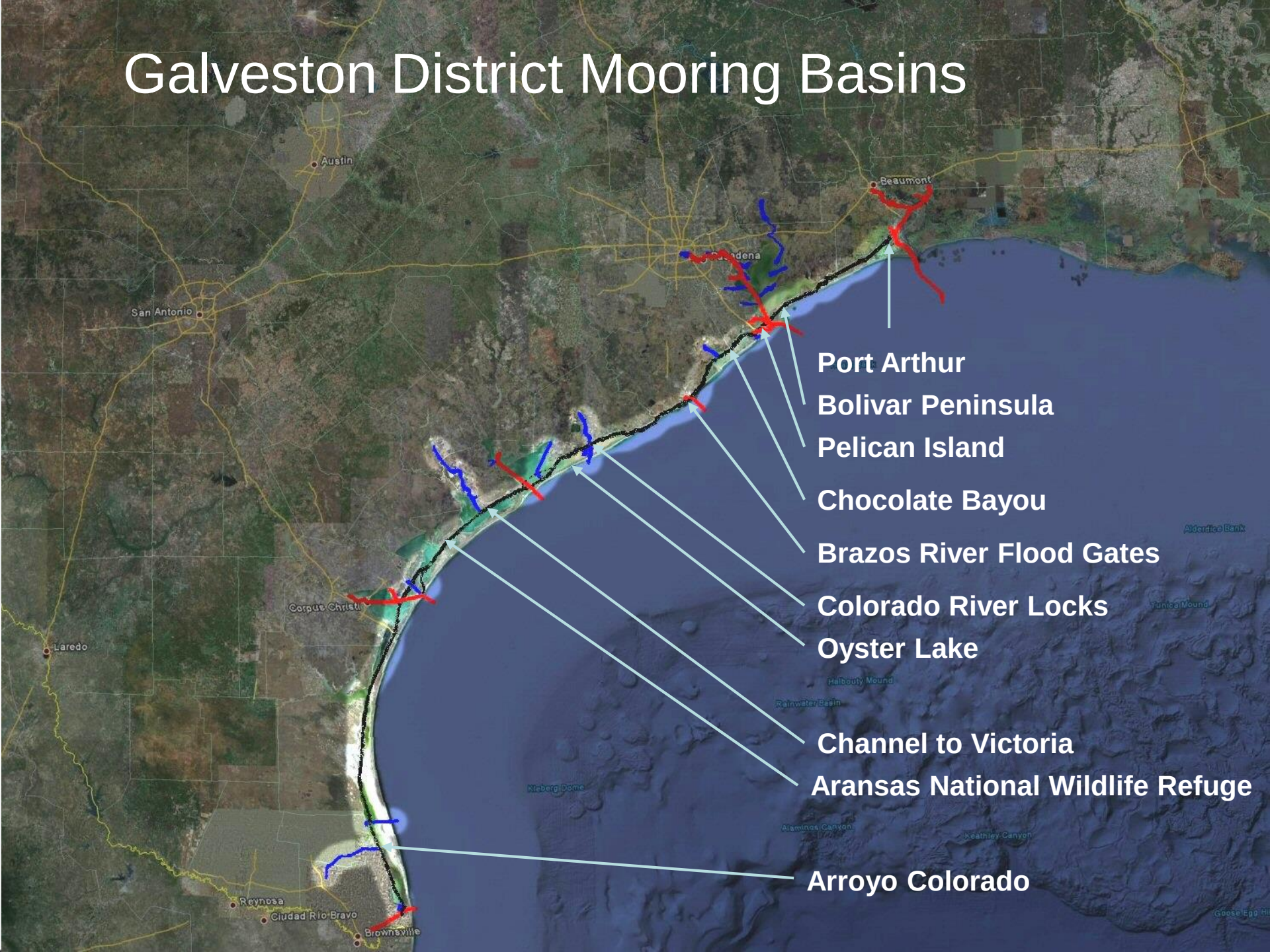
GULF INTRACOASTAL WATERWAY
BRFG & CRL Consolidated Repairs


Brazos River Floodgates


Colorado River Locks

Brazos River Flood Gates and Colorado River Locks	Consolidated Repairs
Dredging Depth:	NA
Dredging Width:	NA
Dredging Length:	NA
Dredging Quantity:	NA
Material Type:	NA
Placement Area:	NA
Type of Equipment:	Miscellaneous Facility Items
Env. Window:	NA
Reason for Window:	NA
Est. Start Date:	3rd Quarter FY19
Est. Completion Date:	1st Quarter FY20

Galveston District Mooring Basins



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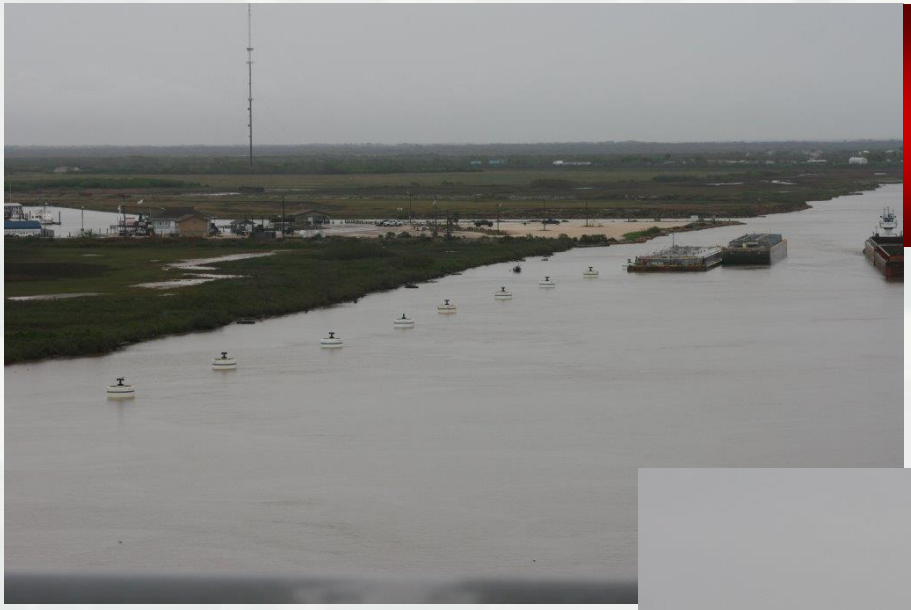
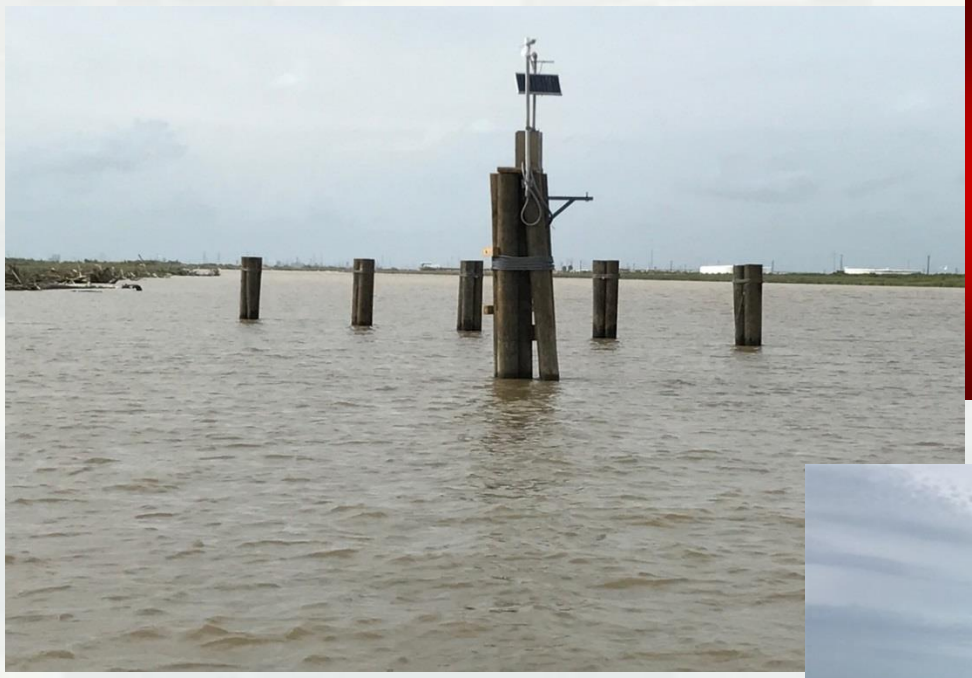
Colorado River Locks
Matagorda, Texas



A total of 40 buoys have been re-spaced to 150’ on center and installed at CRL – 10 buoys per bank

Brazos and Colorado Rivers US Geological Survey Pile Clusters for Data Collection Platforms



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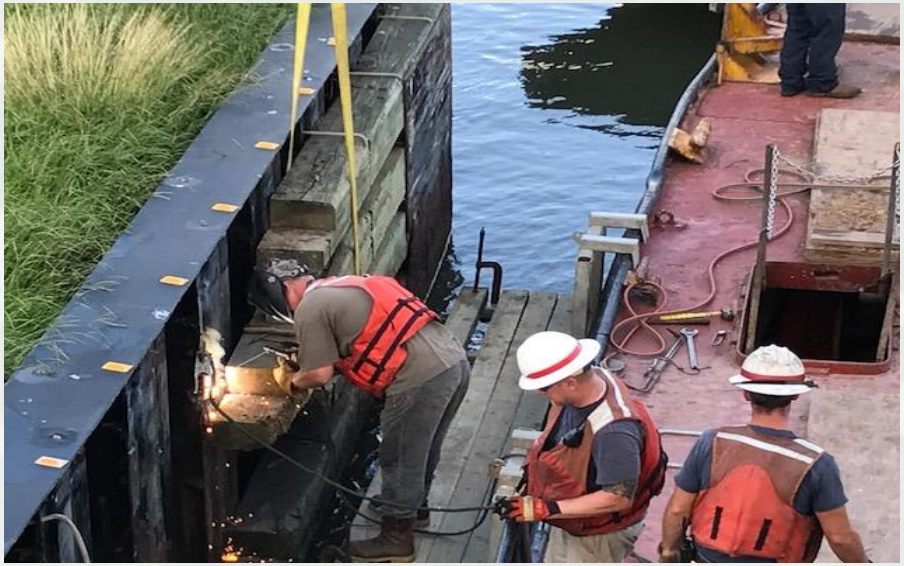
Colorado River Locks Guidewall Repairs



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US Fish and Wildlife Service
Port O'Connor, Texas

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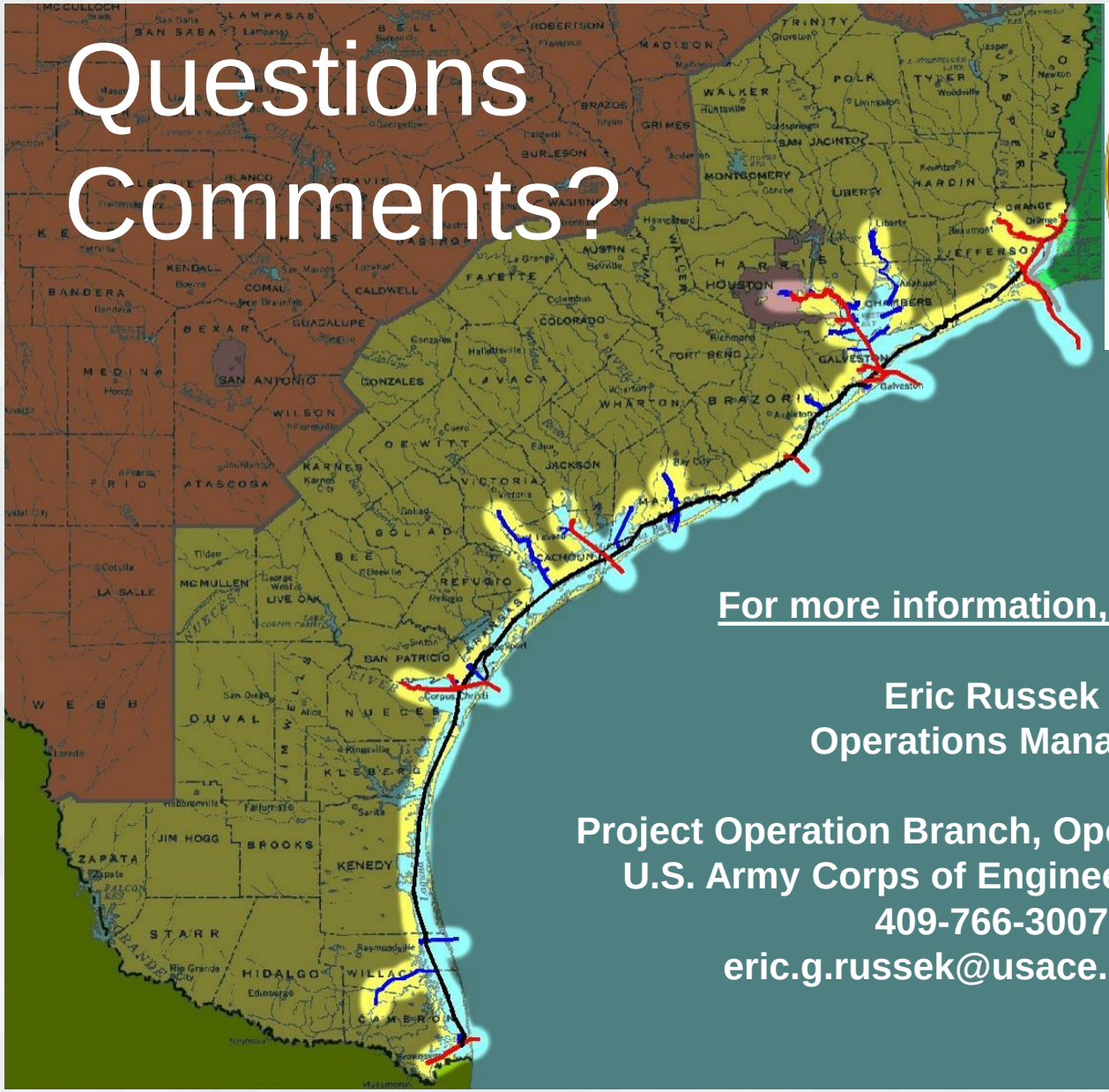
Questions Comments?



For more information, contact:

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Operations Manager

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