CORPUS CHRISTI SHIP CHANNEL
CHANNEL IMPROVEMENT PROJECT

USACE Galveston District Summer Stakeholder Partnering Forum
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PORT CORPUS CHRISTI
Deep Draft Channel System

- Nueces Bay
- Redfish Bay
- Corpus Christi Bay
- Inner Harbor: 7.3 miles
- Upper Bay Reach: 9.6 miles
- La Quinta Channel: 5.9 miles
- Entrance/Jetty Channel: 3.9 miles
- Lower Bay Reach: 8.6 miles

35 Nautical Miles of Federal Channel
All Dredged to 45 Feet MLT (47 MLLW)
Operating Depth

Corpus Christi Ship Channel ≈ 29 miles
La Quinta Ship Channel ≈ 6 miles
DMPA Inventory
History of Channel Development
History of Channel Development

- 1910
- 1926
- 1935
- 1949
- 1952
- 1956
- 1960
- 2014

Map showing the development of the channel over time with key years marked.
Channel Depth History

52’ MLT = 54’ MLLW
Congressionally Authorized Project Elements
1. La Quinta Channel Extension
2. Ecosystem Restoration Features
3. CCSC Main Channel Deepening & Widening
4. Barge Shelves Across Upper Bay
Corpus Christi Ship Channel
Channel Improvement Project - Contract I

Station 7+000
Located Just West of Ferry Crossing

Station 210+00
End of Existing Channel

Station -33+000
Located Approximately 5 Miles from End of Jetties
(2 Miles from End of Existing Channel)

Gulf of Mexico

Beneficial Use Site MN ≈ 440 Acres

Beneficial Use Site ZZ ≈ 1,150 Acres

ODMDS No.1 ≈ 520 Acres

Existing Water Depth
30 - 33 ft
Max Dredge Fill Height
8 ft

Existing Water Depth
42 - 53 ft
Max Dredge Fill Height
10 ft

Legend
Scale:
0 ± 0.5 ± 1.0

Award – December 2018
Completion – February 2020

- 2.1 Miles
- 1.7 Miles
- 4.0 Miles
Ellis Island
Hopper Dredge

The Ellis Island

**DIMENSIONS**
- **Hull**: 400 x 92 x 28 ft
- **Draft**: 32 ft
- **Buckton Diameter**: 24 ft
- **Discharge Diameter**: 26 ft

**PERFORMANCE**
- **Hopper Capacity**: 14,600 yd³
- **Dredging Depth**: 12 ft

**MACHINERY & POWER**
- **Dredge Pump Power**: 10,000 hp
- **Total Installed Power**: 28,625 hp
- **Dwelling System**: Retarder Dwell
- **Anchoring**: Two Bow Anchors
Carolina Cutter Suction Dredge

Length: 263 ft (80.2 m)
Breadth: 65 ft (19.8 m)
Depth: 15 ft (4.6 m)
Draft: 11 ft (3.4 m)
Overall Length: 341 ft (103.9 m)
Corpus Christi Ship Channel
Channel Improvement Project - Contract II

Easterly Dredge Limit
Sta. 7+000

Westerly Dredge Limit
Sta. 70+000

Beneficial Use Site CQ
≈ 250 Acres

Beneficial Use Site I
≈ 163 Acres

DMDA NO.6
≈ 277 Acres

Legend
Contract II Dredging Limits
Contract II Dredge Material Placement Areas

Anticipated Award – December 2019
Anticipated Completion – 2nd Quarter 2022
Beneficial Use Site
14A & 14B
≈ 194 Acres

Corpus Christi Ship Channel
Channel Improvement Project - Contract III

Easterly Dredge Limit
Sta. 70+000

Open Bay Placement Areas
14A & 14B

Legend

Scale: Miles
0 ± 1.0 ± 2.0

NORTH

Beneficial Use Site
14A & 14B
≈ 194 Acres

Open Bay Placement Areas
14A & 14B

Open Bay Placement Areas
15A & 15B

Open Bay Placement Areas
16A & 16B

Anticipated Award – September 2020
Anticipated Completion – 3rd Quarter 2022

Beneficial Use Site CQ
≈ 250 Acres

Westerly Dredge Limit
Sta. 110+000

Corpus Christi Bay

Open Bay Placement Areas
17A & 17B

Easterly Dredge Limit
Sta. 70+000
Corpus Christi Ship Channel
Channel Improvement Project - Contract IV

**Corpus Christi Ship Channel**
**Channel Improvement Project** - **Contract IV**

**Legend**
- **Contract IV Dredging Limits**
- **Contract IV Dredge Material Placement Areas**

**Westerly Dredge Limit**
STA. 158+591

**Easterly Dredge Limit**
STA. 110+000

**Herbie A. Maurer DMPA**
≈ 219 Acres

**Suntide DMPA**
≈ 306 Acres

**Tule Lake DMPA No. 6**
≈ 342 Acres

**South Shore DMPA (Cell A)**
≈ 180 Acres

**South Shore DMPA (Cell B)**
≈ 169 Acres

**DMPA No. 1**
≈ 410 Acres

**Anticipated Award** – September 2021

**Anticipated Completion** – 4th Quarter 2022

**Scale:** Miles

0 ± 1.0 ± 2.0

**NORTH**

- **Corpus Christi Ship Channel**
- **Channel Improvement Project** - **Contract IV**
Federal Funding Secured to Date = $95 million
- $23 million FY 2018 USACE Work Plan
- 13 million FY 2019 President’s Budget
- $59 million FY 2019 USACE Work Plan

Federal Funding Proposed, Not Yet Ratified
- $53 million FY 2020 President’s Budget

PCCA Funding Provided to USACE to Date = $82 million
- 78.8 million cash
- $3.2 million work in kind
Other Channel Development Initiatives
• Port completed study of deepening the Entrance Channel from the Gulf of Mexico through Harbor Island
• Deepen to between 75 and 85 feet MLLW to allow fully loaded larger vessels
• Better prepare Port for long-term future for commodities
La Quinta Channel
Widening & Deepening Feasibility
Study

- Study Authorized in WRDA 2016
- $500,000 included in the FY 2018 work plan.
- $1,000,000 included in FY 2019 work plan
- Study to investigate improvements to the La Quinta Ship Channel
- Ports goal is to widen and deepen the La Quinta Ship Channel from -47 ft MLLW to -54 ft MLLW to match the authorized depth of the Corpus Christi Ship Channel.
- Smart Planning 3x3x3 rule
Creating Capacity under Section 217(a) Authority

Creating additional capacity at PCCA Port owned DMPA’s

Long Term Planning for future DMPA’s
Channel Maintenance
Dredging
THANK YOU. 
QUESTIONS?