PORT CORPUS CHRISTI

AAPA Facilities Engineering Seminar & Expo
La Quinta Channel Extension Project

October 22, 2015

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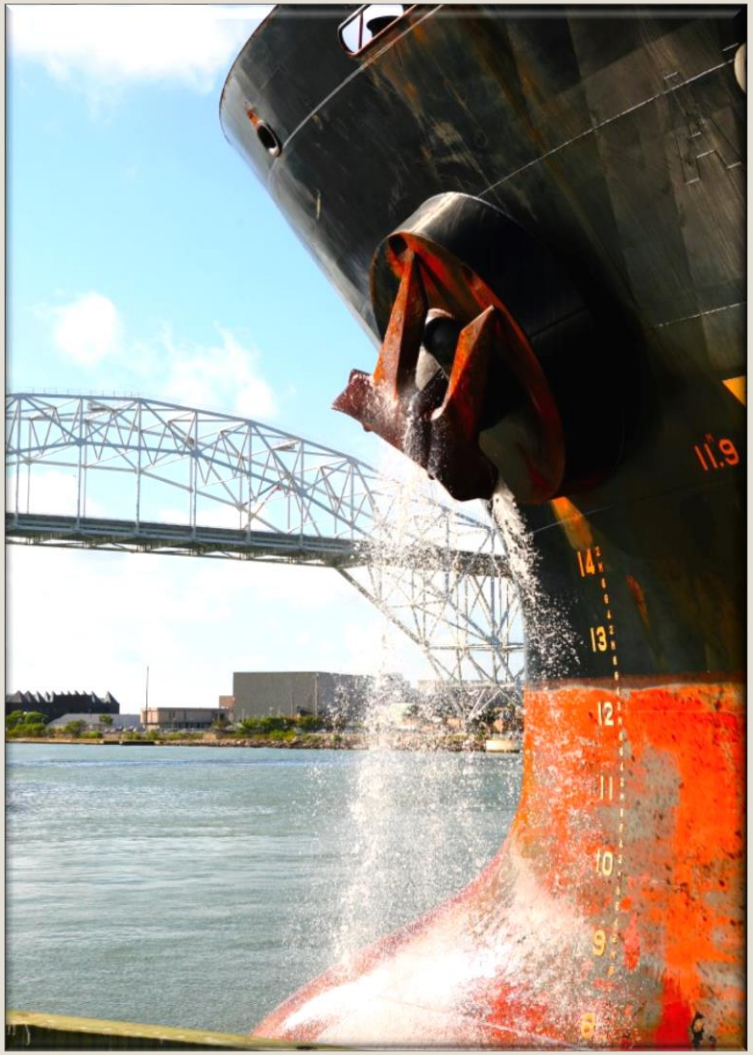
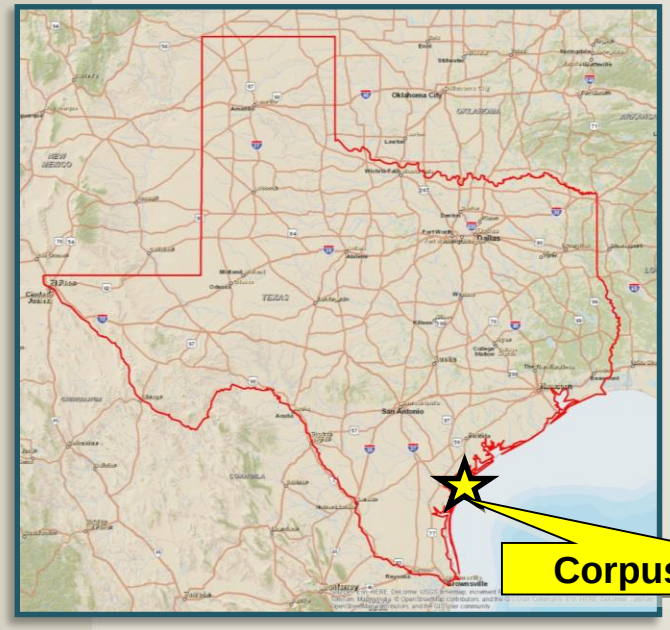
Coastal Development Planning Manager

WHO WE ARE

- Public corporation and Texas political subdivision
- 5h Largest U.S. Port by tonnage
- 100,000,000 tons of cargo in 2014





PORT POLITICAL STRUCTURE

Governed by
Appointed 7-Member
Commission

City of Corpus Christi (3)
Nueces County (3)
San Patricio County (1)

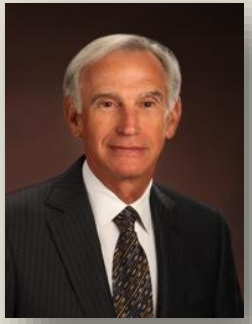
PORT COMMISSIONERS

Judy Hawley
Chair

Charlie Zahn
Vice-Chair

Barbara Canales
Secretary

Richard Valls



David Engel

Richard Bowers

Wayne Squires

FACILITIES & ASSETS

22,000 acres

35 Nautical Miles of Ship Channel

48 Docks & 528,800 Sq Ft of Warehouse Space

43 Miles of Railroads
60 Miles New Rail NRRY

138 Ft Vertical Clearance on Harbor Bridge
205 Ft New Bridge

$435,235,356 Total Assets

THE PORT HAS EXPERIENCED SUBSTANTIAL GROWTH

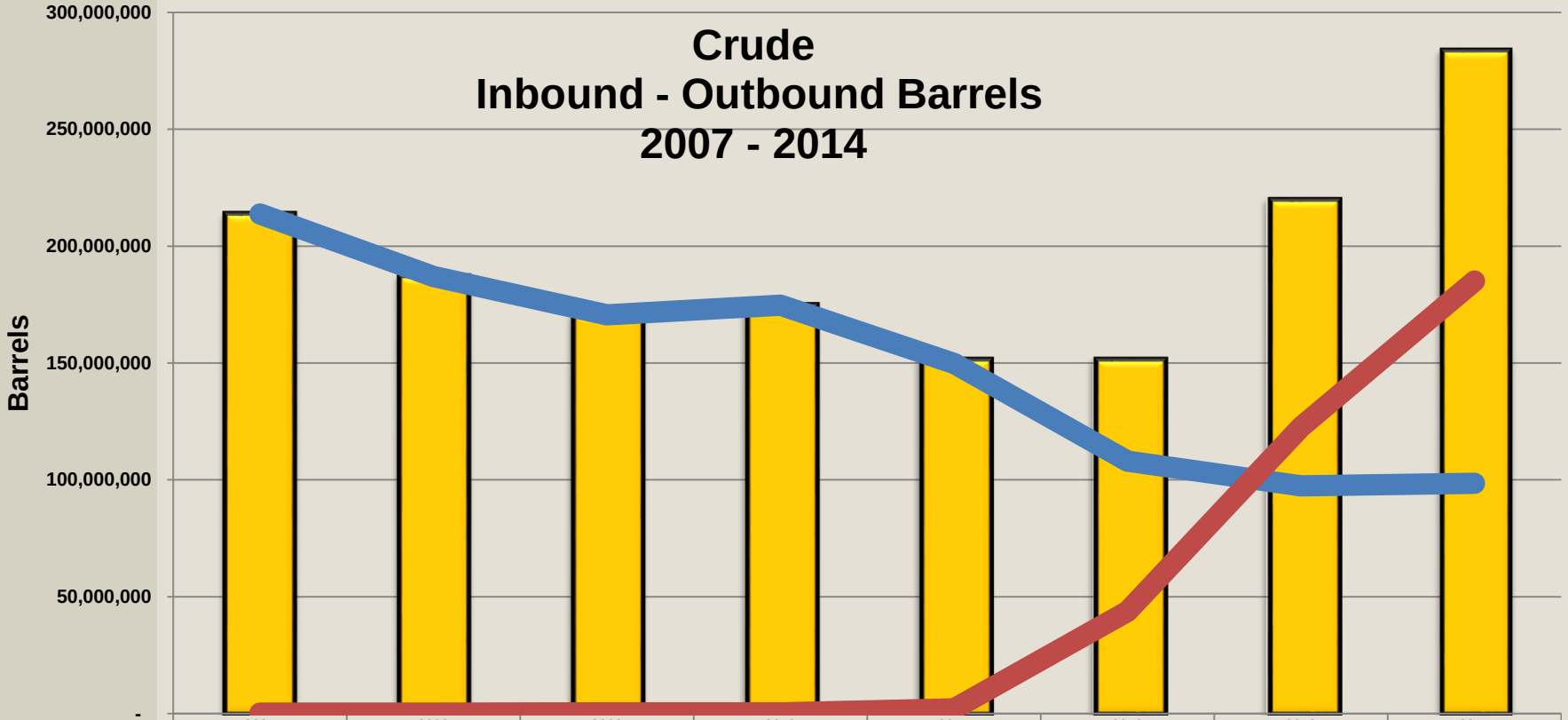
In the Last Decade

- Diversification of Cargo
- Operating Revenues from $28 to $77 Million
- Total Assets from $212 to $435 Million
- Capital Expenditures in Port Infrastructure $261 Million
- Environmental Investments $20 Million

TEXAS/NORTHERN MEXICO SHALE FORMATIONS

EAGLE FORD SHALE PRODUCTION NIGHT-TIME VIEW

INBOUND & OUTBOUND CRUDE OIL



	2007	2008	2009	2010	2011	2012	2013	2014
Total	213,940,491	187,196,246	170,992,210	175,055,204	151,819,987	151,786,318	219,999,876	283,606,473
Inbound	213,781,428	187,004,139	170,654,320	174,781,128	149,791,585	108,065,777	97,442,016	98,569,693
Outbound	159,063	192,108	337,889	274,076	2,028,402	43,720,541	122,557,860	185,036,780

PORT CORPUS CHRISTI

$40 BILLION NEW INVESTMENT

BALANCING EXPLOSIVE GROWTH WITH CLEAN AIR AND CLEAN WATER

GROWTH

2012
2013
2014
TONNAGE
78,806,188
88,699,849
100,073,924
BARGE & SHIP MOVEMENTS
6,082
6,870
8,528

TPCO AMERICA

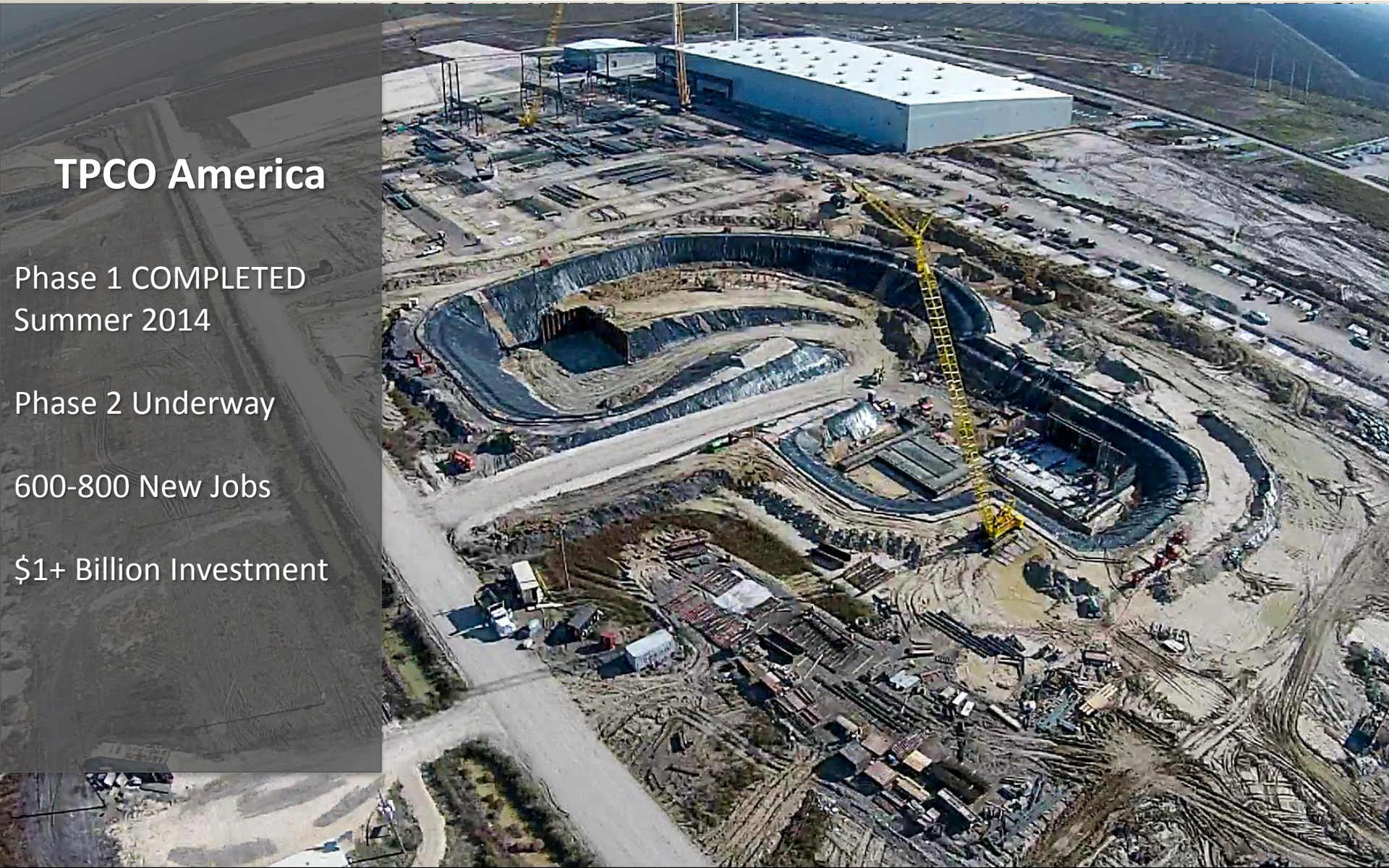
TPCO America

Phase 1 COMPLETED
Summer 2014

Phase 2 Underway

600-800 New Jobs

$1+ Billion Investment



OXY INGLESIDE ETHYLENE LLC

- $1.5 billion investment
- 33% Complete
- 150+ Permanent/ 1,700 Construction Jobs
- Operations to Begin 1Q 2017

PORT CORPUS CHRISTI

VOESTALPINE

- High Quality Hot Briquetted Iron (HBI)
- Operational 1Q 2016
- 80% Plant Capacity Under Long-Term Contract
- Agreement with Altos Hornos de Mexico for shipment of HBI
- 150 Permanent Jobs
- 1900 Construction Jobs
- $740 Million Investment

PORT CORPUS CHRISTI

M & G

- 250 Jobs
- Largest PET/PTA Plant in the World
- Operations Begin 2016
- 1,500-1,800 Rail Cars/Year
- Partners with M&G Polymers Mexico
- $1.1 Billion Investment

CHENIERE

Cheniere

State & Federal Permitting Underway

4-5 Year Construction

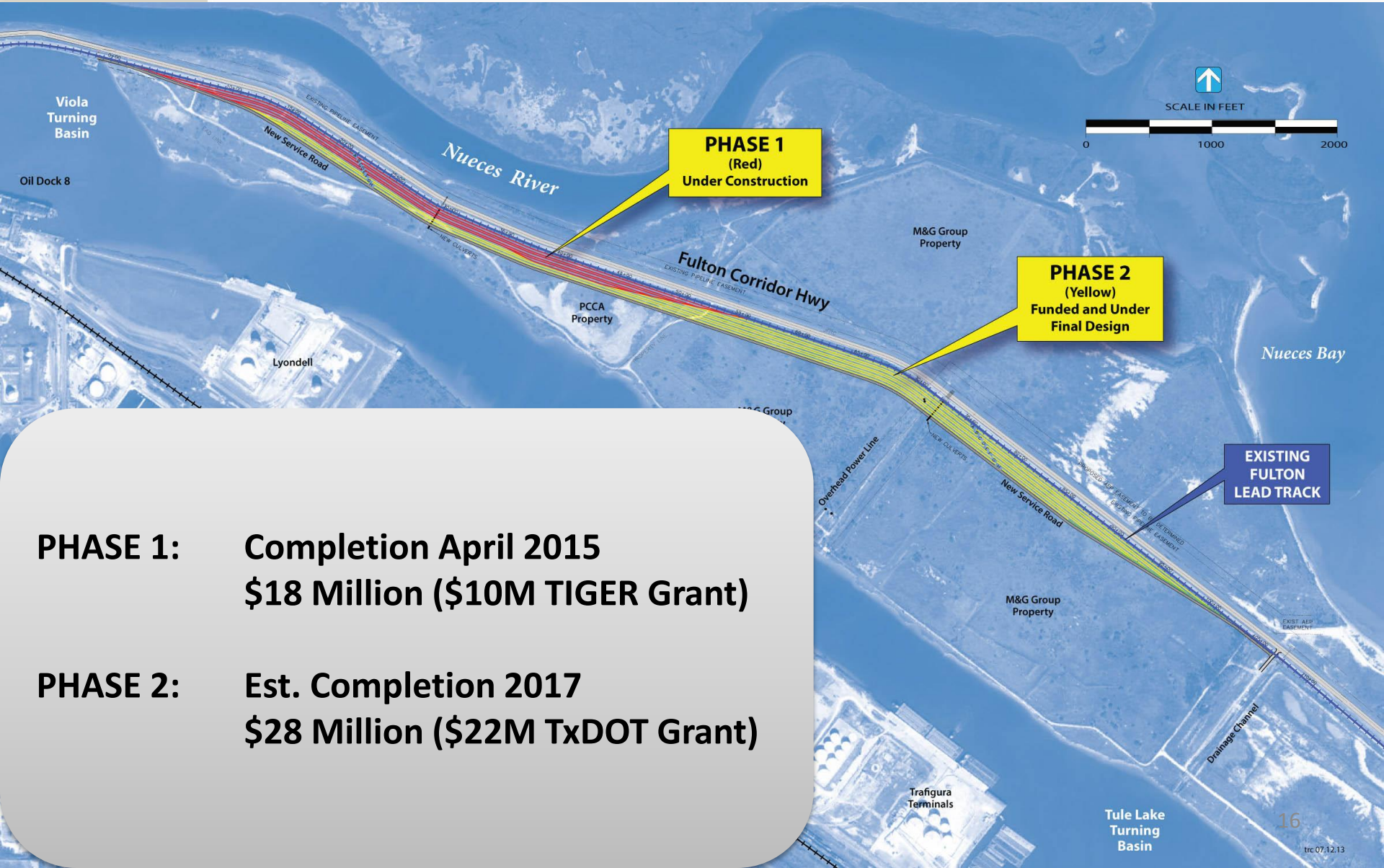
350 Permanent Jobs

3,000 Construction Jobs

$14.5 Billion Investment

Operations to Begin by 2020

NUECES RIVER RAIL YARD



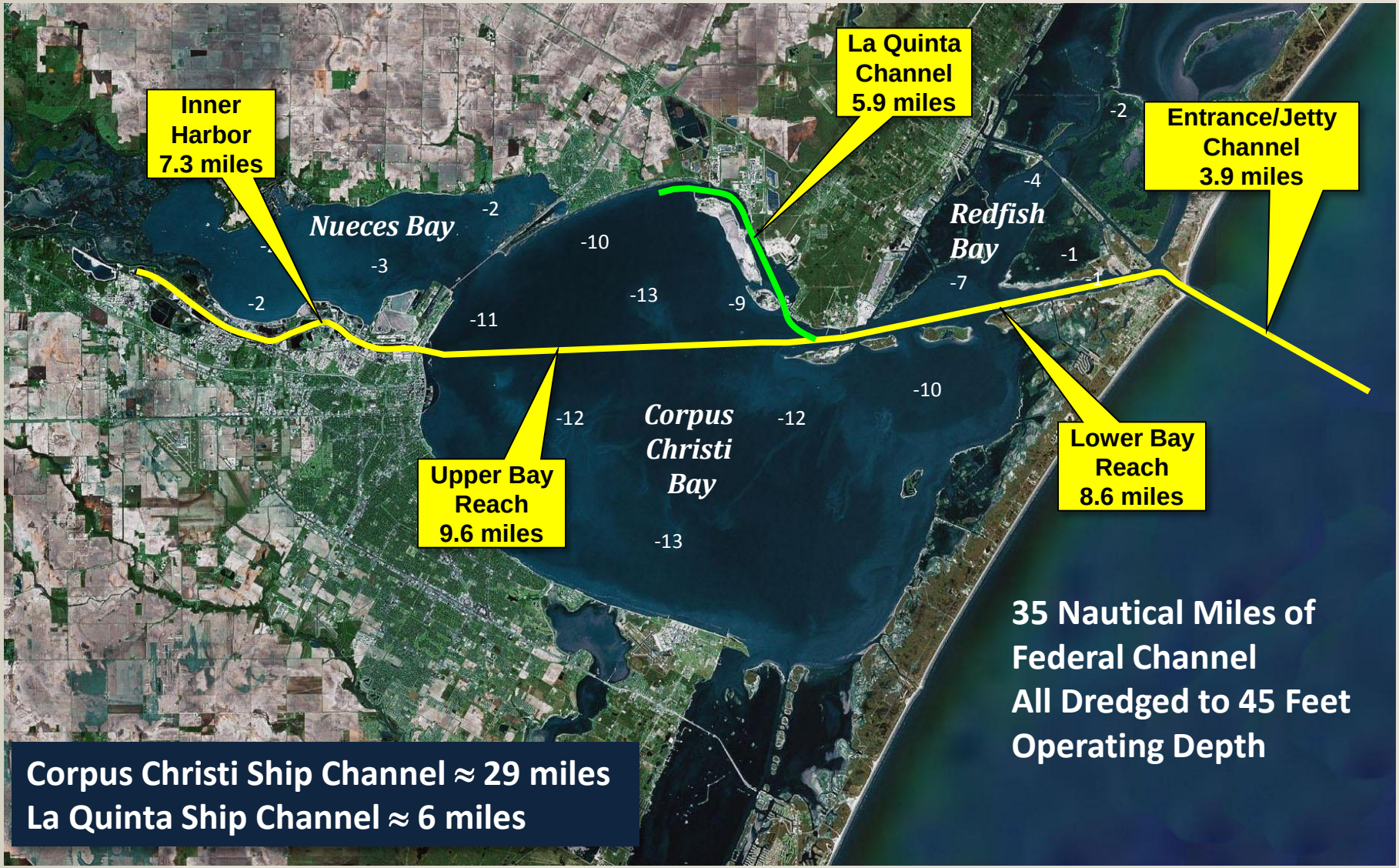
PHASE 1: Completion April 2015
$18 Million ($10M TIGER Grant)

PHASE 2: Est. Completion 2017
$28 Million ($22M TxDOT Grant)

PORT CORPUS CHRISTI

NEW HARBOR BRIDGE

PORT OF CORPUS CHRISTI
DEEP DRAFT CHANNEL SYSTEM

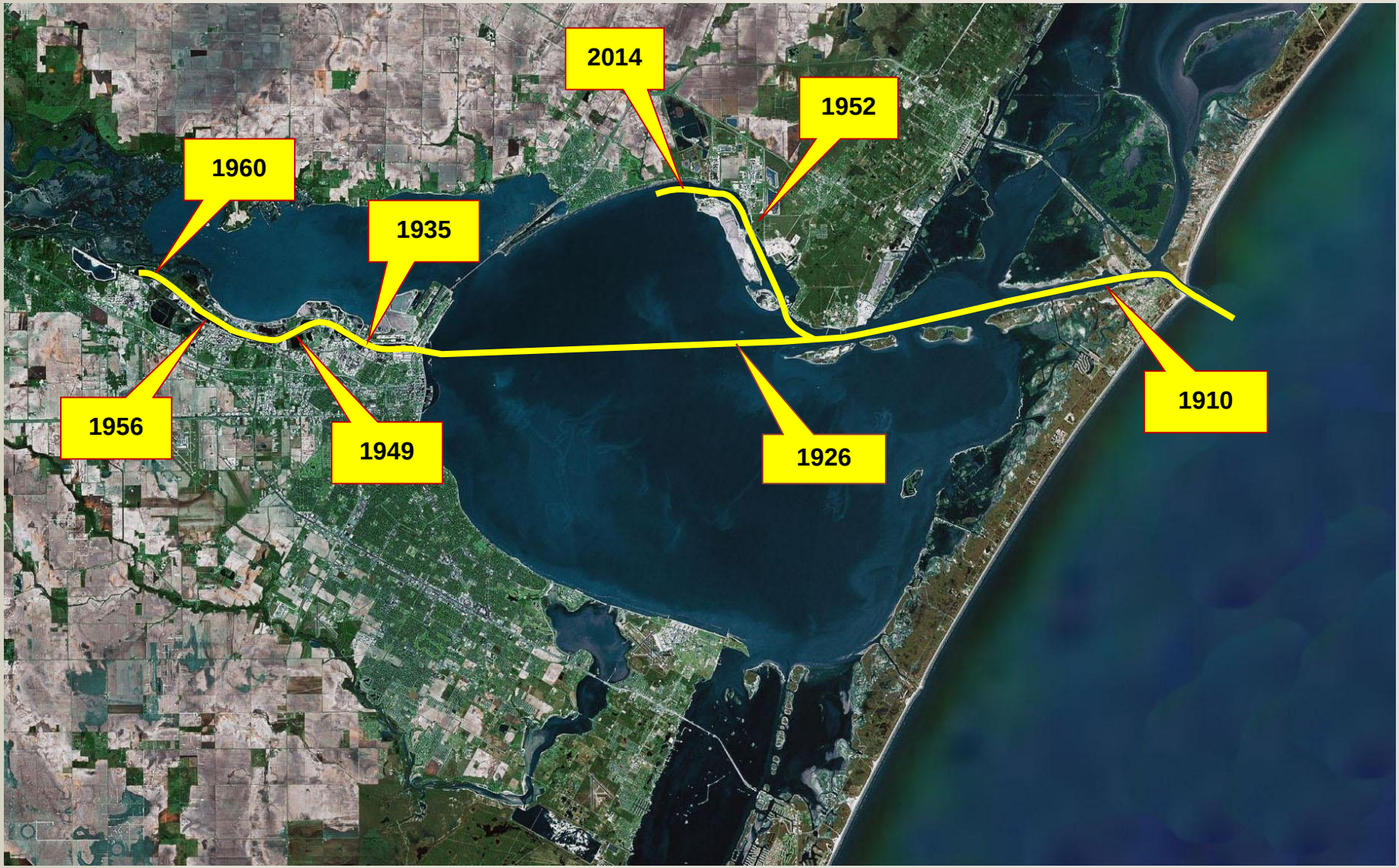


BRINGING DEEP WATER TO CORPUS CHRISTI

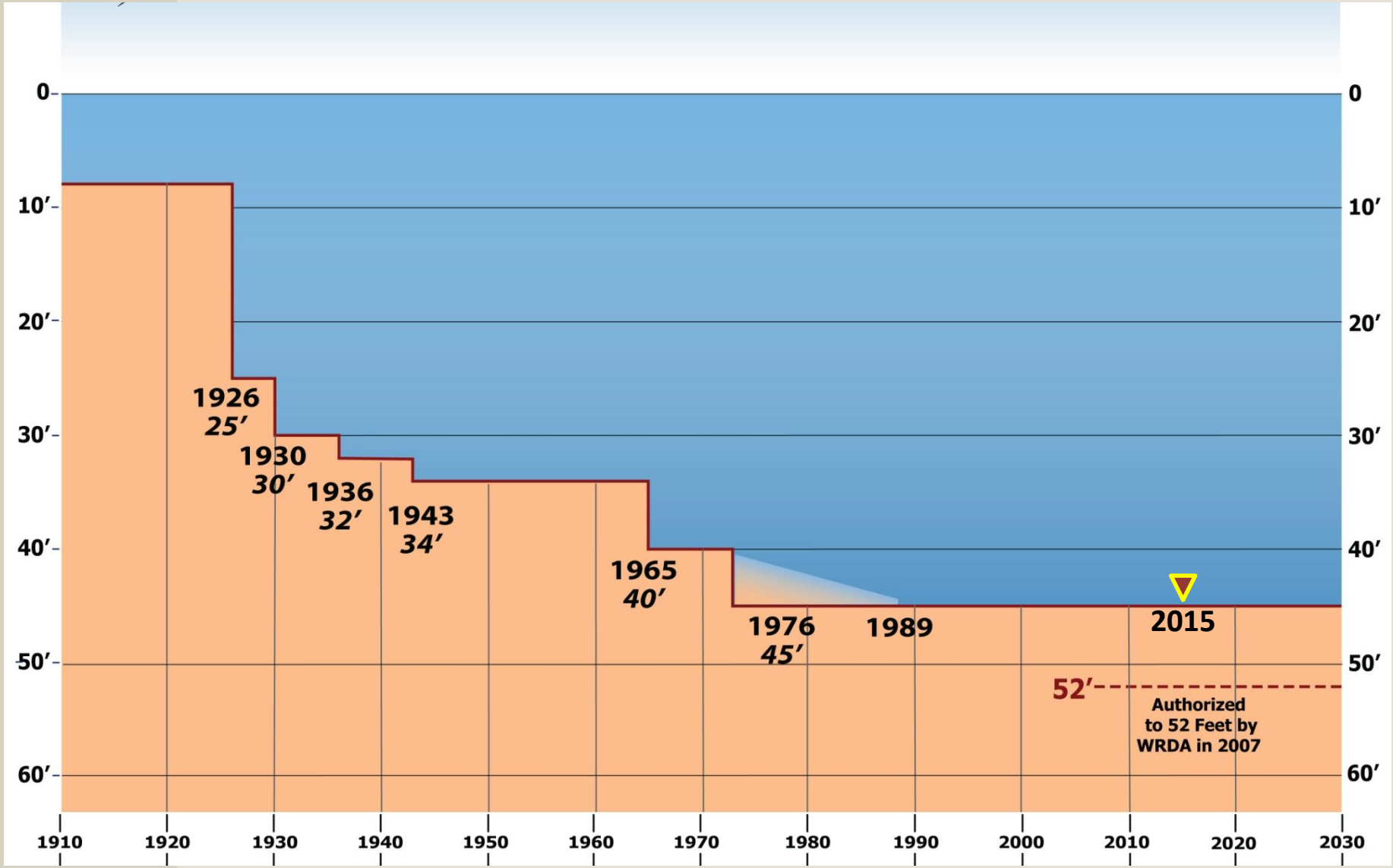
PORT CORPUS CHRISTI

INNER HARBOR AFTER 1926 OPENING

CHANNEL LENGTH DEVELOPED INCREMENTALLY



CHANNEL DEPTH DEVELOPED INCREMENTALLY



CORPUS CHRISTI SHIP CHANNEL - CHANNEL IMPROVEMENT PROJECT (CCSC-CIP)

CCSCCIP
THE PROCESS AND THE OUTCOME

- Strategic Goal
- DMM/BU Plan
- BU Construction

STRATEGIC GOAL

Secure Project Congressional Authorization and Construction Funding

- The Process necessary to achieve the strategic goal is multifaceted. The tactics implemented to achieve the goal are familiar yet unique to the project

- For the purposes of this seminar session topic I shall briefly focus on DMM/BU Plan process and its

DMM/BU PLAN DEVELOPMENT

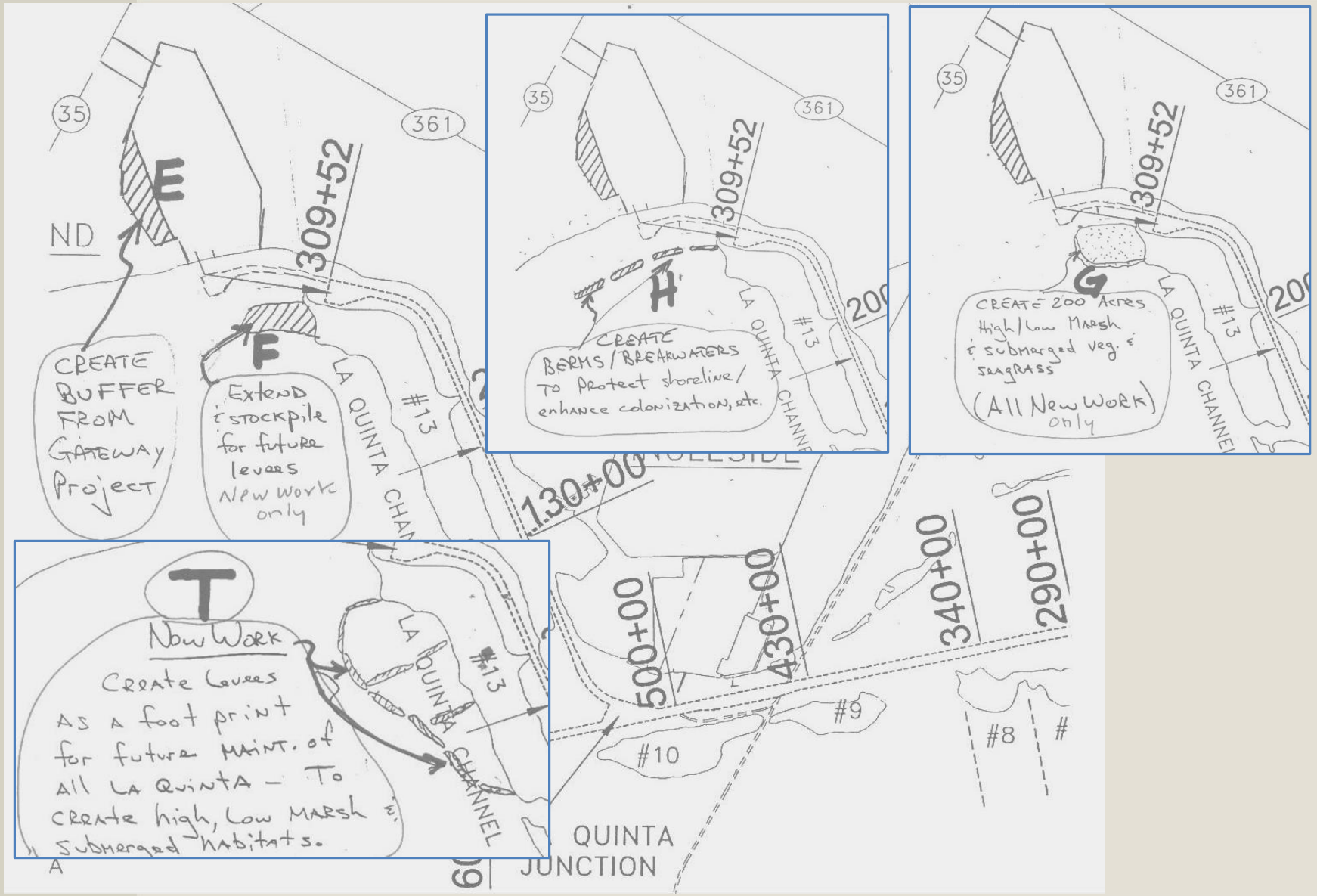
- Was core to FFR/EIS success
- Knowledge/understanding of public interests and concerns about dredging and placement (historic and current) before heavy public involvement in FS, facilitated preparation of a public outreach strategy that would engage and secure public support for project and kept it. Ownership.
- The conduct of “pre-emptive” research, studies, and/or preparation of scientific evidence/synopses, and outlining in advance what was needed for FS decision making before heavy involvement of state and federal regulatory in FS process effectively focused the scope of agency review rather than turning the FS into science science project.

DISCIPLINES AND WORKGROUP SUPPORT INTO DEVELOPMENT OF CCSCCIP DMM/BU PLAN

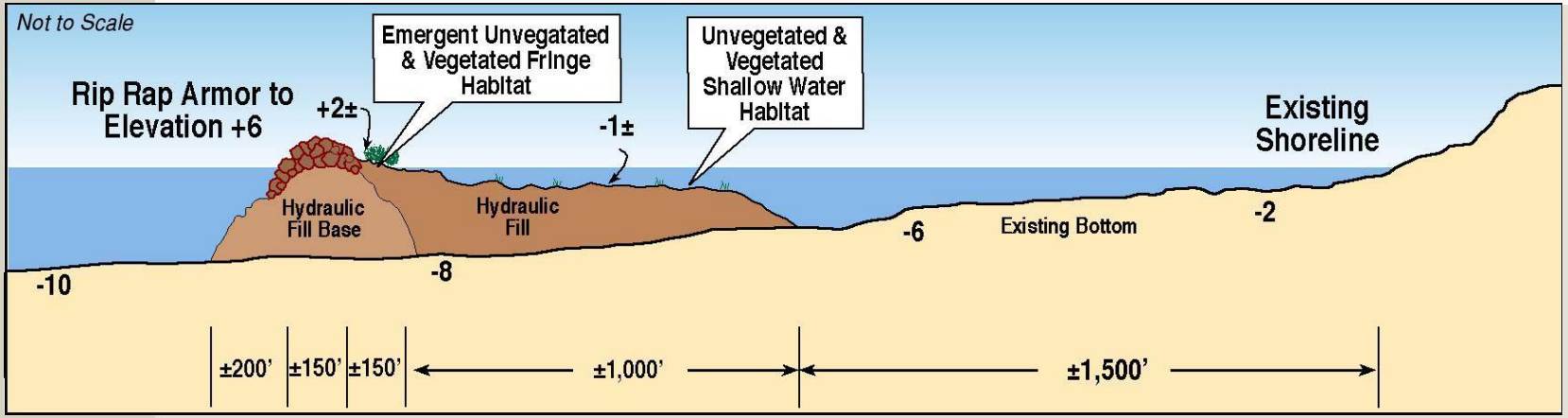
- Contaminants
- Shoreline Erosion
- Hydrodynamics and Salinity Modeling
- Mitigation (Benthic Recovery)
- Beneficial Uses
- Cumulative Assessment
- Regulatory Agency Coordination Team (RACT)

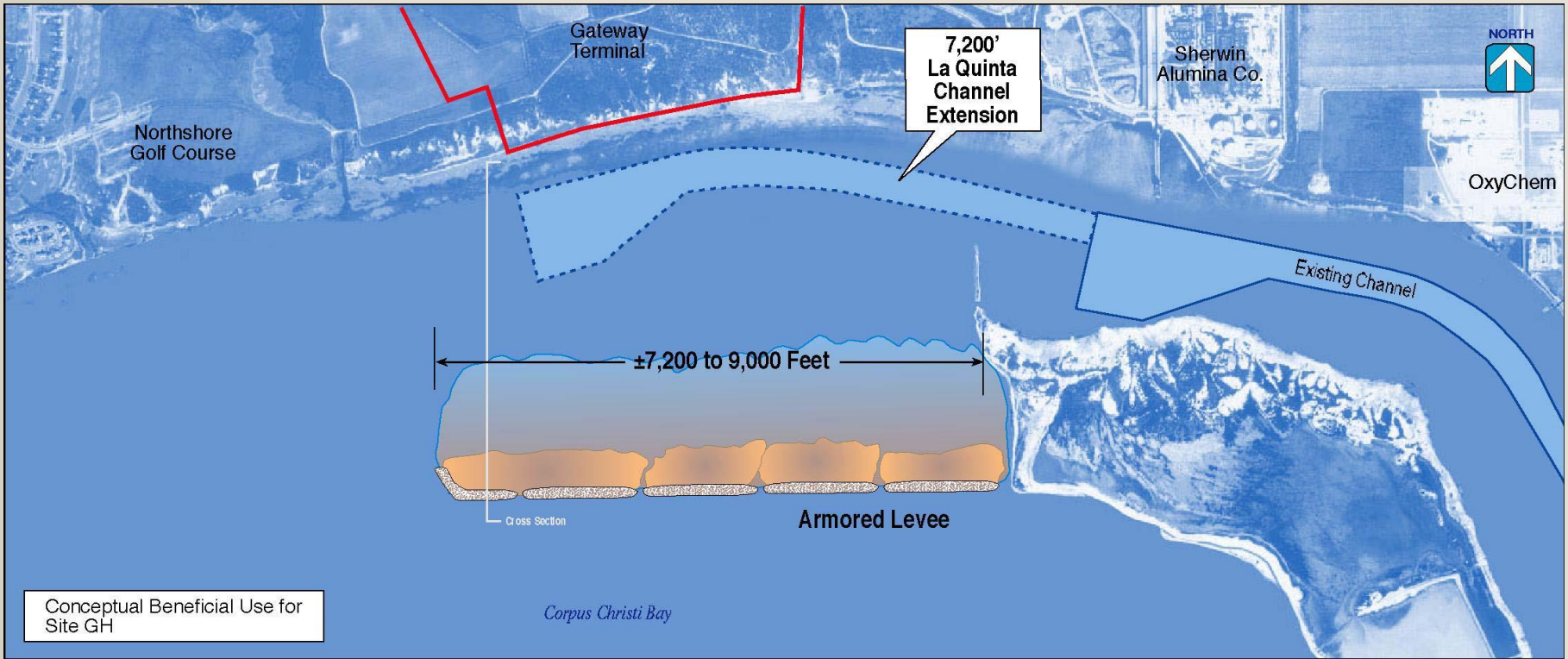
BENEFICIAL USE IDEAS - OUTREACH

BENEFICIAL USE CONCEPTS

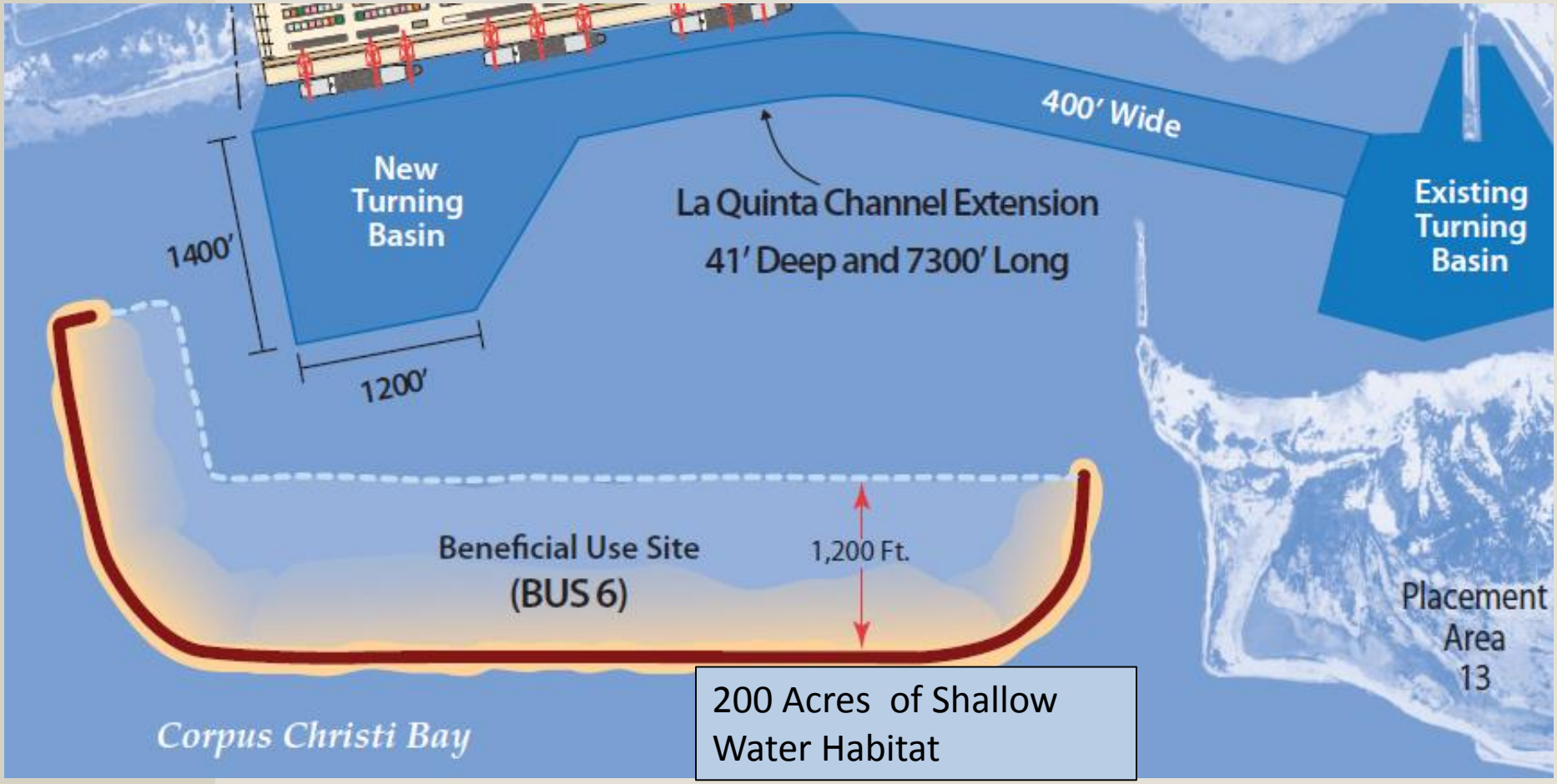


BENEFICIAL USE CONCEPT AT FOR LA QUINTA EXTENSION

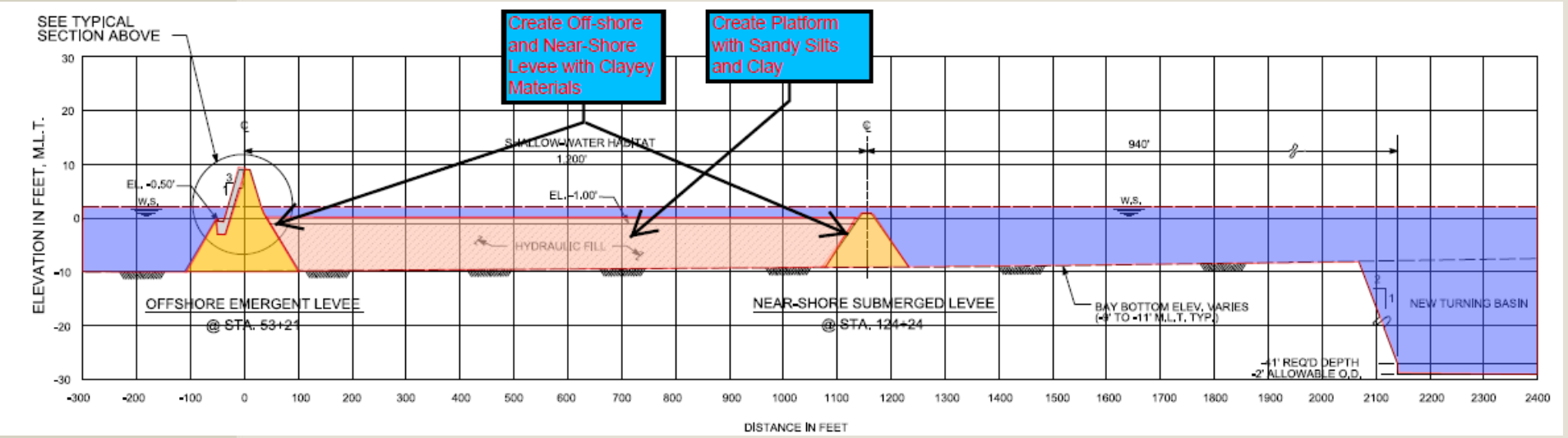


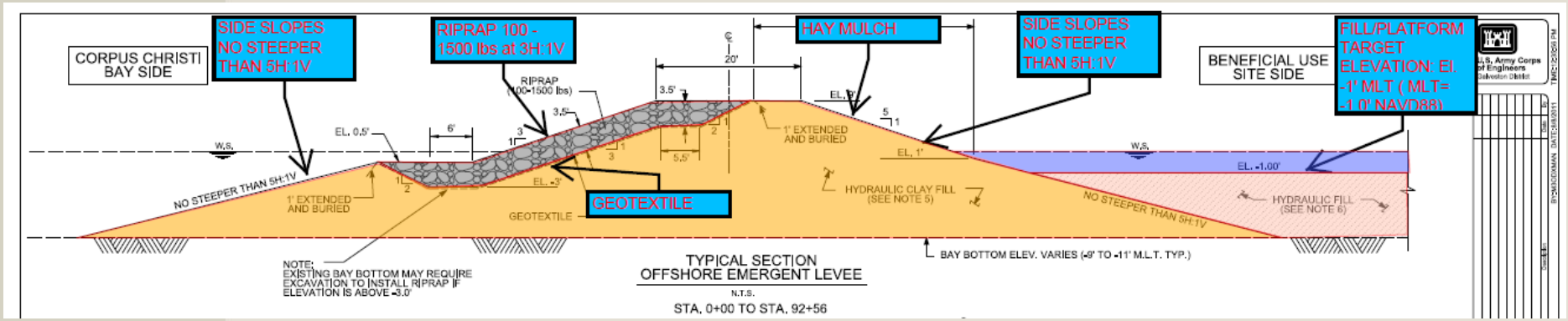


LA QUINTA CHANNEL EXTENSION PROJECT – CHANNEL & BENEFICIAL USES

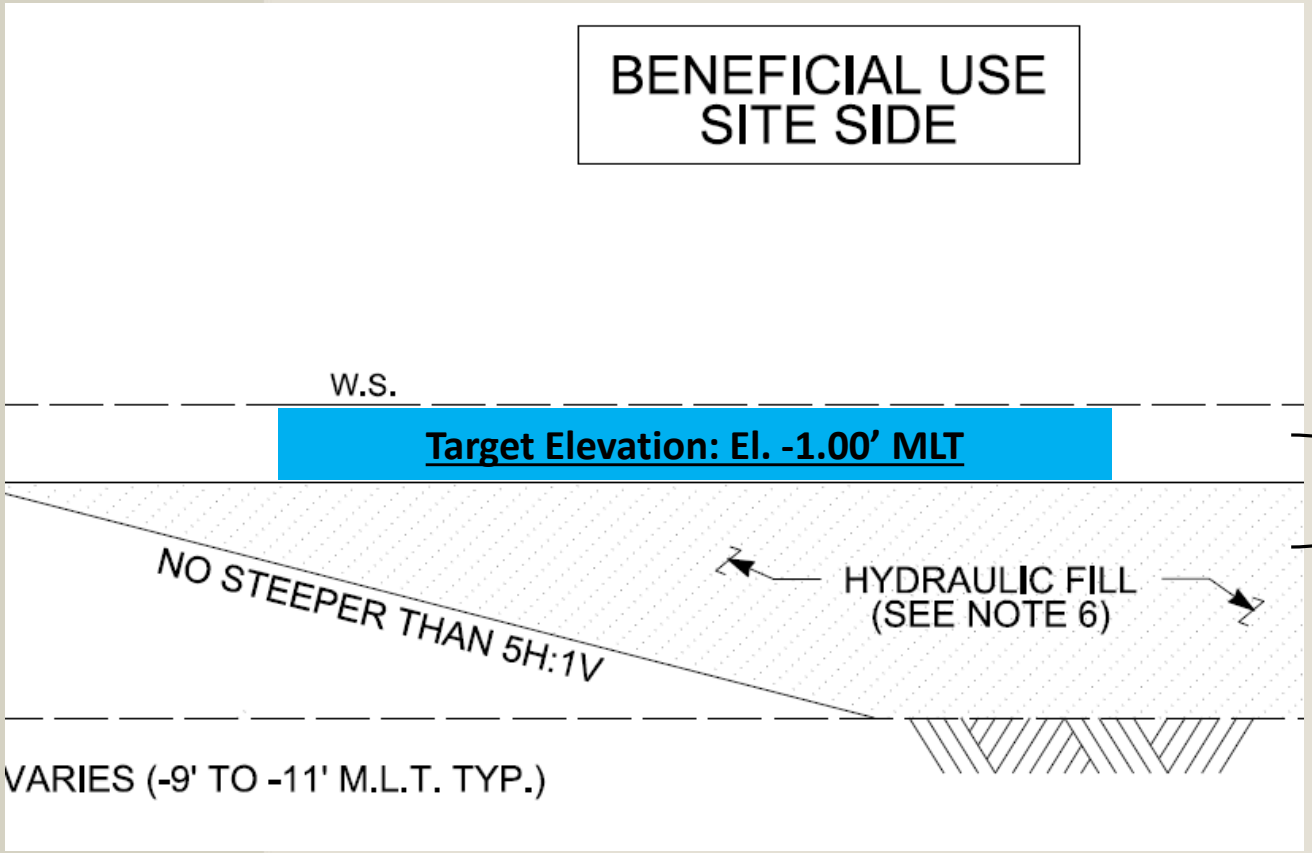


BENEFICIAL USE SITE – CROSS SECTIONS





BENEFICIAL USE AREA – HABITAT PLATFORM ALLOWABLE GRADE TOLERANCES



80%

El. -0.25'
to
El. -1.75'

Remaining 20%

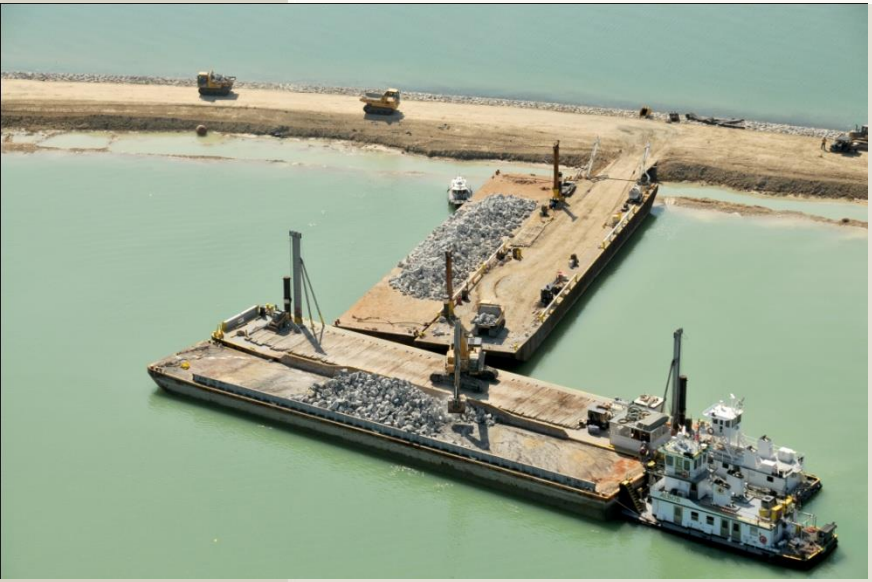
El. +1.00'
to
El. -3.00'

RESULT FOR LA QUINTA SITE GH/BUS 6 SITE & AND ALL CCSCCIP BU SITES MULTI-BENEFICIAL USE OUTCOMES

- Provides nearly 200 acres of shallow water (Approx. El. -1 from El. -7’/-11’) for seagrass and wetland habitat
- Creates Offshore Breakwater to protect waterfront facilities and berthed vessels from waves and storms
- Provides Platform to perform Federal project Mitigation and other permitted non-federal project mitigation.
- Reduces Channel and Turning Basin Siltation – Reducing maintenance dredging costs and impacts to DMPAs
- Emergent Levee creates opportunities for native vegetation, wildlife habitat and supports recreational fishing
- Conserve DMPA Capacity

PORT CORPUS CHRISTI

INITIATING ROCK SHORE PROTECTION CONSTRUCTION – CREATING TOE, INSTALLING FABRIC AND ARMOR

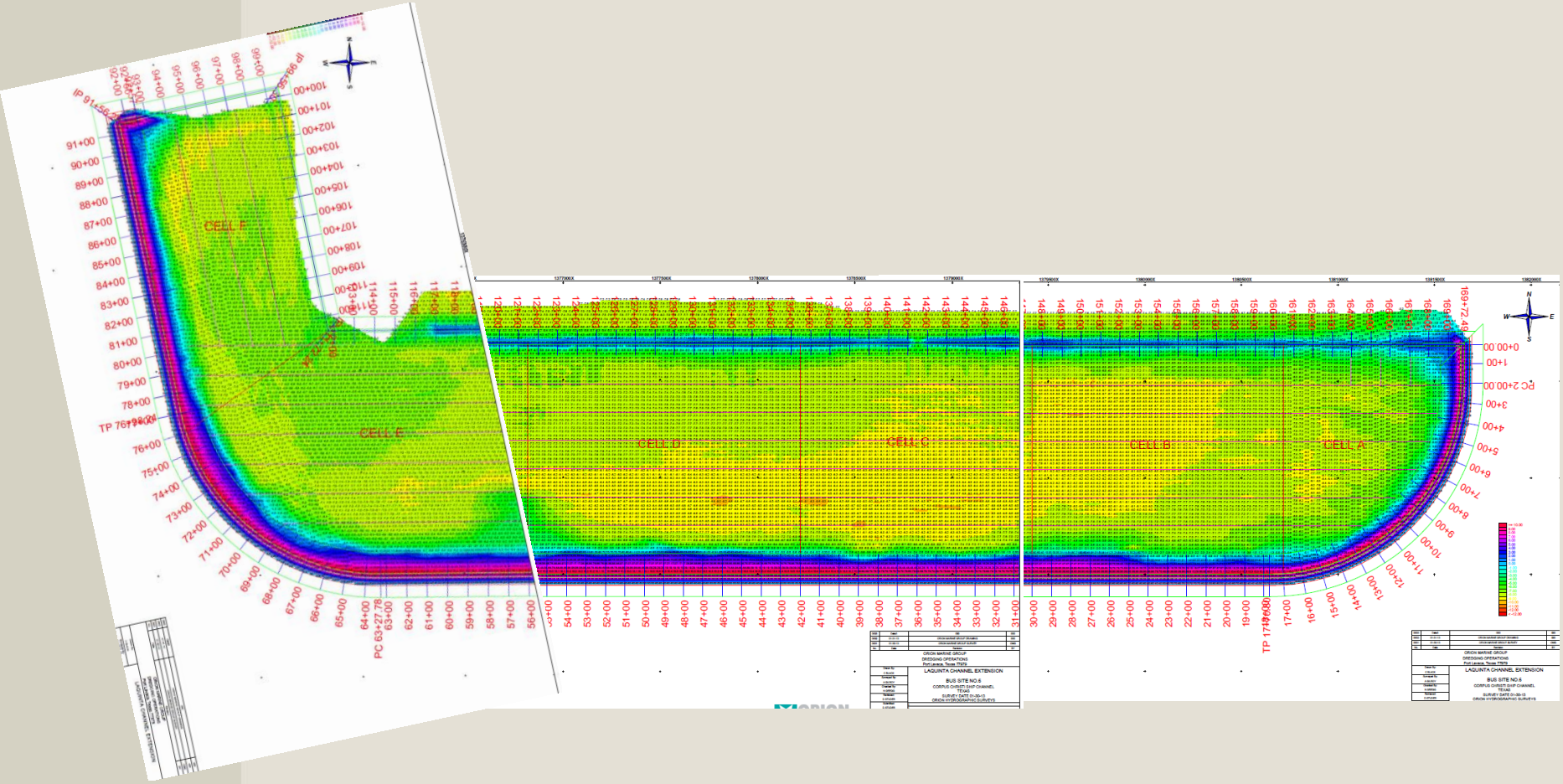


PORT CORPUS CHRISTI

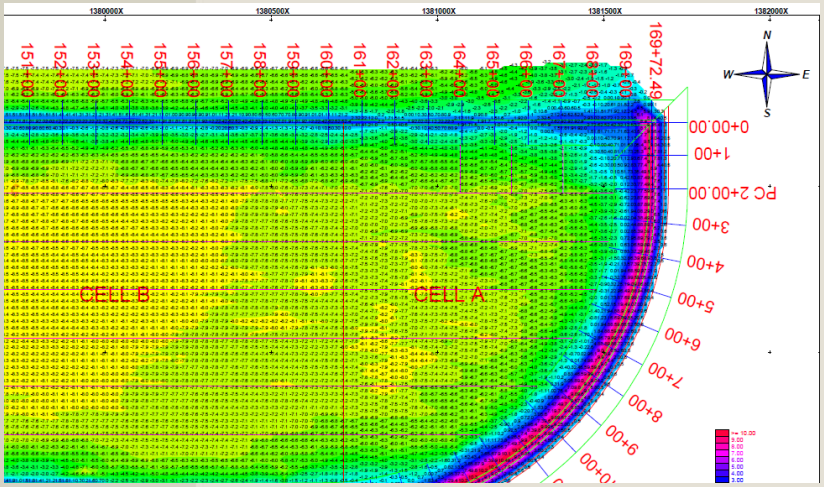
INITIATING ROCK SHORE PROTECTION CONSTRUCTION – CREATING TOE, INSTALLING FABRIC AND ARMOR

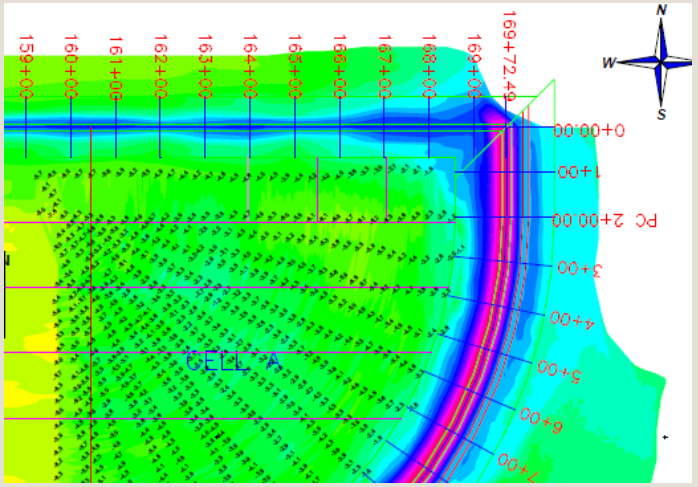
OFF-SHORE AND NEAR-SHORE LEVEES COMPLETE AND FILLING OF CELLS IN PROGRESS

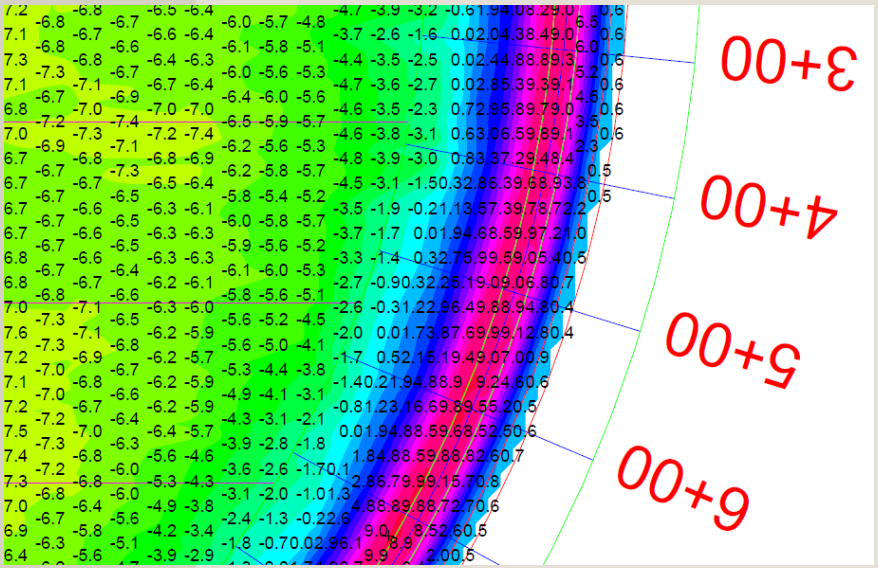
BENEFICIAL USE AREA SURVEY – CREATING SHALLOW WATER HABITAT PLATFORM

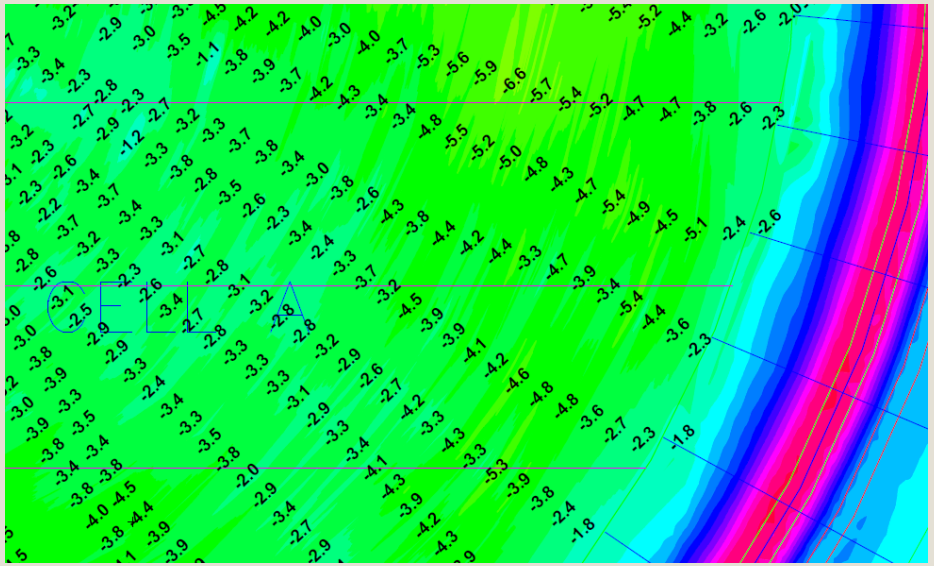


BENEFICIAL USE AREA SURVEY – CREATING HABITAT PLATFORM

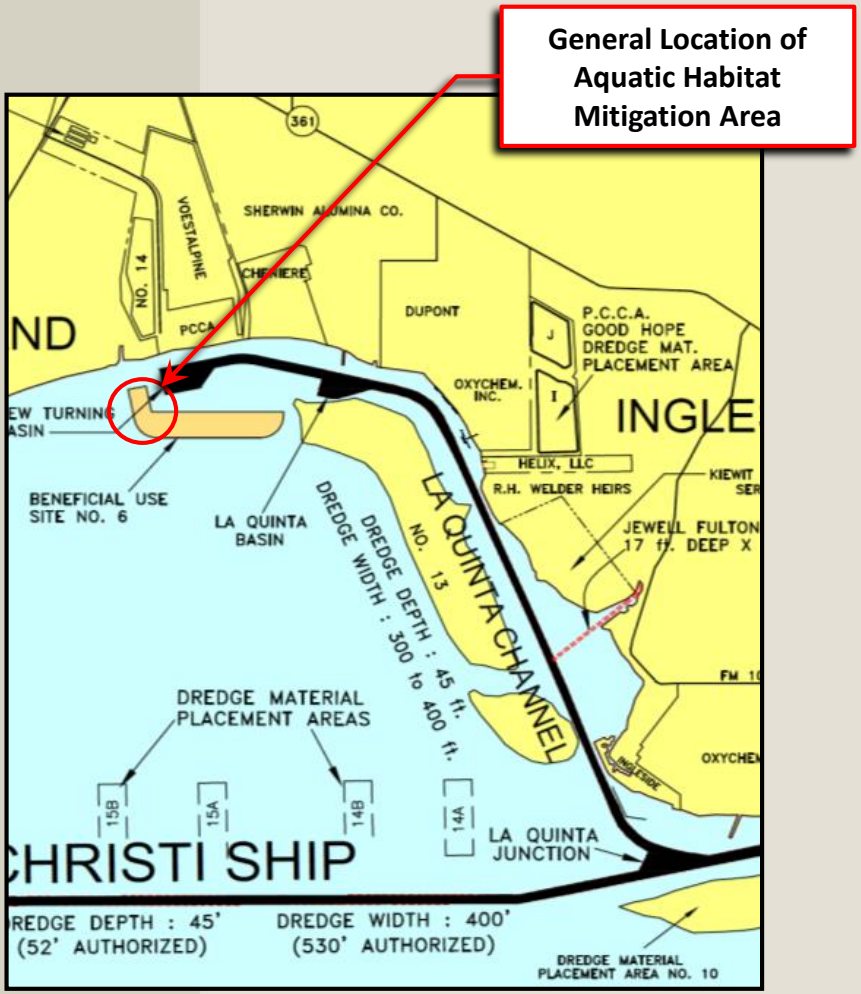








LA QUINTA TERMINAL
MITIGATION AQUATIC HABITAT



Under Construction (July 2015)

PORT CORPUS CHRISTI

INITIAL EMERGENT WETLAND PLANTING

INITIAL EMERGENT WETLAND PLANTING

ON-GOING ACTIVITIES

- *Phase 1 Mitigation Underway Earthwork Complete October 16, 2015*
- *Initial Emergent Wetland Planting Complete November 1, 2015*
- *60-day post plant survival survey and replant if needed*
- *Potential replant before June 2016*
- *Phase 2 Mitigation Under Design for Bid and Start Earthwork and Submergent Seagrass Planting Mid 2016.*
- *Initiate and continue staggered 5-year performance monitoring*

PORT CORPUS CHRISTI

Thank You!

Questions?