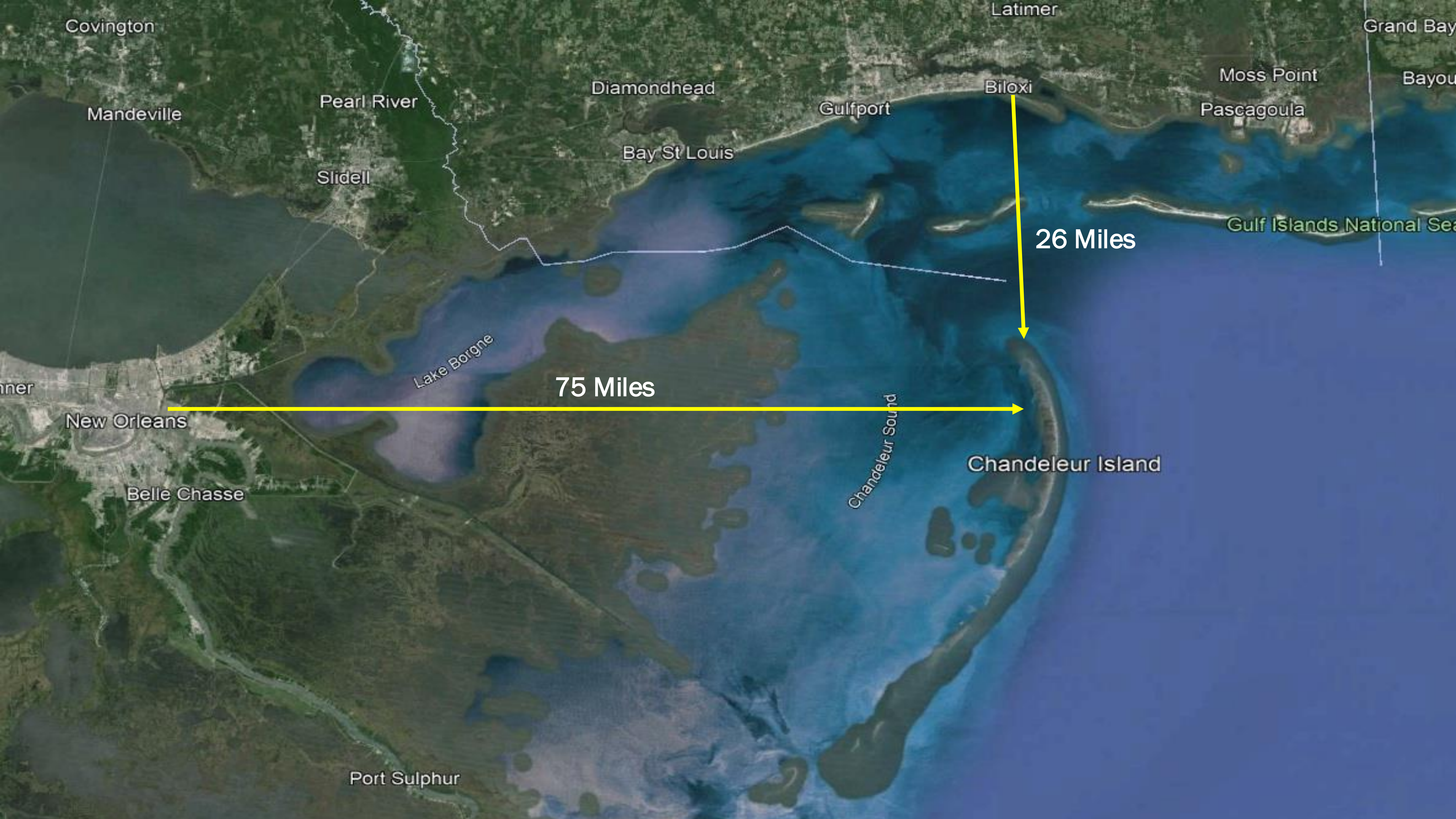
May 22, 2025

The Birds of Chandeleur Island

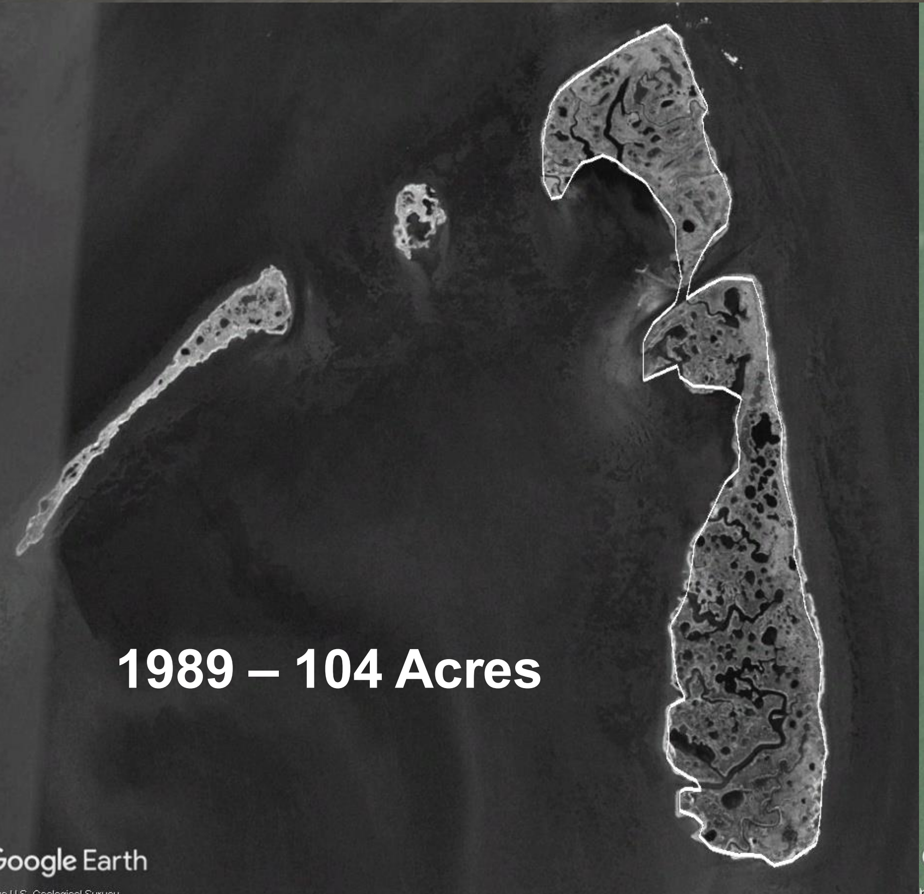
Todd Baker, Project Manager



Covington
Latimer
Grand Bay
Mandeville
Pearl River
Diamondhead
Gulfport
Biloxi
Moss Point
Pascagoula
Bayou
Slidell
Bay St Louis
26 Miles
Gulf Islands National Sea
Lake Borgne
75 Miles
New Orleans
Chandeleur Sound
Chandeleur Island
Belle Chasse
Port Sulphur


Land Loss Over Last 39 Years
Chandeleur Sound
24.7 Miles
Chandeleur Sound
15.2 Miles
Google Earth
Image Landsat / Copernicus
1984
2023

New Harbor Island



Goals for Chandeleur Restoration Project:

1. **Restore and Conserve Bird Nesting and Foraging Habitat**
2. Restore and Enhance Submerged Aquatic Vegetation
3. Enhance Sea Turtle Hatchling and Productivity and Restore Nesting Beach Habitat
4. Create, Restore, and Enhance Barrier and Coastal Islands, and Headlands

Photo: Kacie Rome LDWF

Photo: Matt Conn SEG Environmental

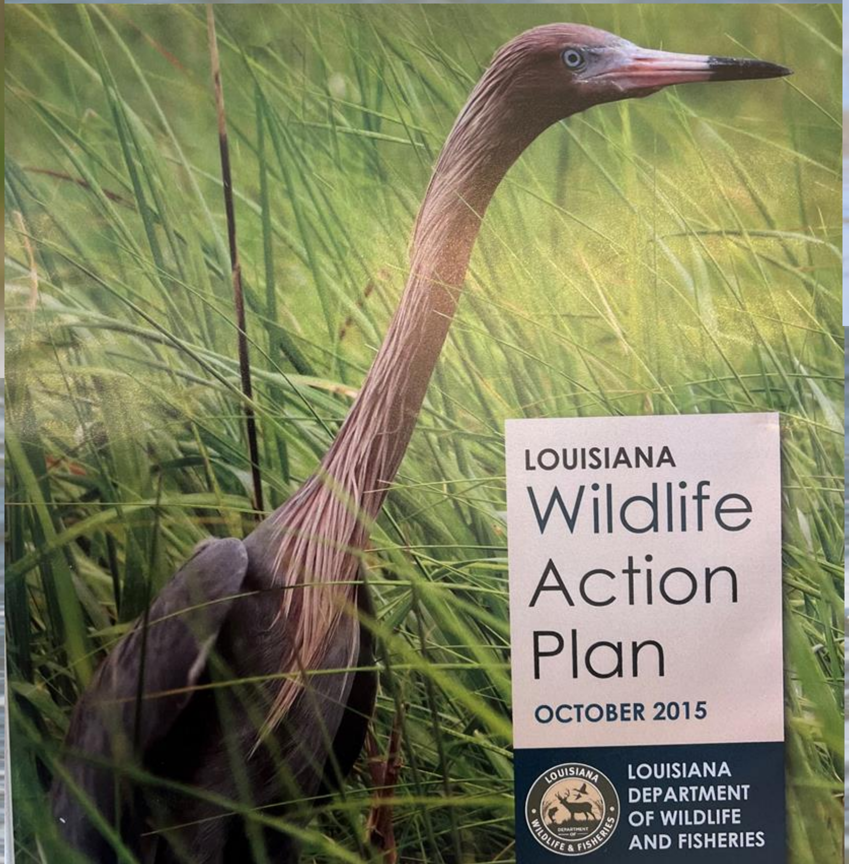



Survey Results:

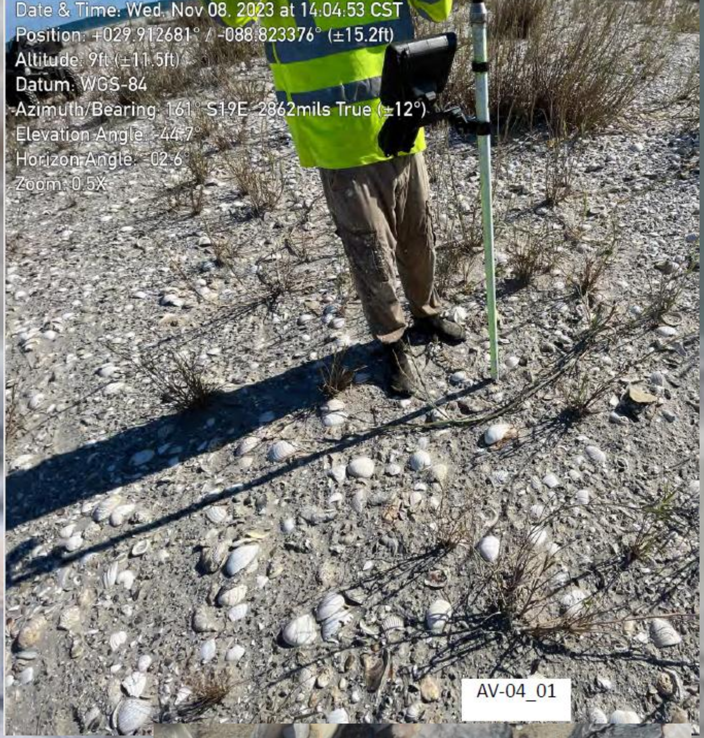
- **Migratory Shorebirds 2024: 1,514 target species** (high counts),
  - **31,000 birds** (1,176 Red Knots & 141 Piping Plover)
- **Waterfowl: January 2024 = 115,825 Ducks (90% Redheads)**
- **Colonial Nesting Birds: 2022 = 27,458 Nests (54,916 birds)**
- **Solitary Nesting Birds: Spring 2023 = 405 Birds**
- **171 Bird Species Documented on the Island.**
- **18,500 bird observations/day**

Species of Greatest Conservation Need = 80

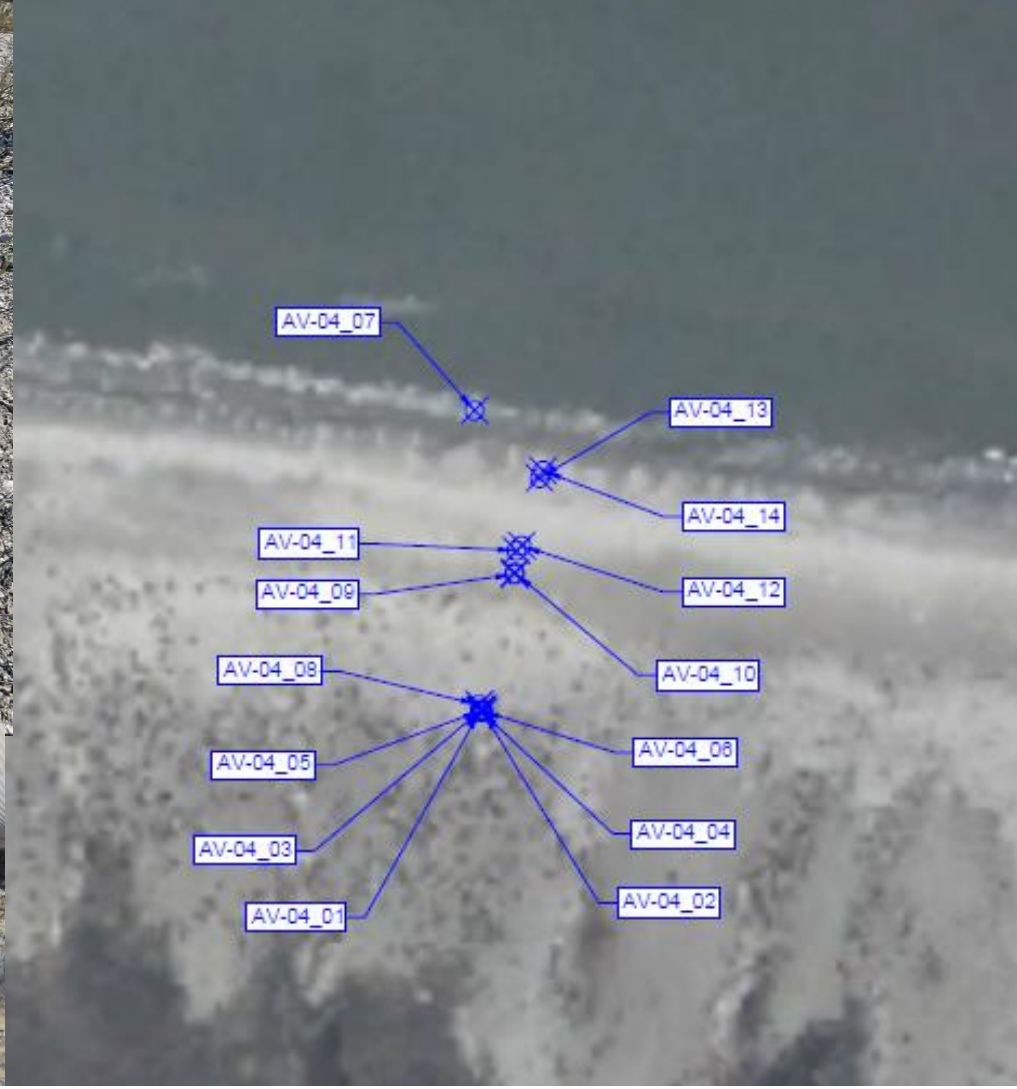
Birds – 38 Species



Chandeleur Gull



Date & Time: Wed, Nov 08, 2023 at 14:04:53 CST
Position: +029.912681° / -088.823376° (±15.2ft)
Altitude: 9ft (±11.5ft)
Datum: WGS-84
Azimuth/Bearing: 161° S19E 2862mils True (±12°)
Elevation Angle: -44.7°
Horizon Angle: -02.6°
Zoom: 0.5X
AV-04_01



AV-04_07
AV-04_13
AV-04_14
AV-04_11
AV-04_09
AV-04_12
AV-04_10
AV-04_08
AV-04_06
AV-04_05
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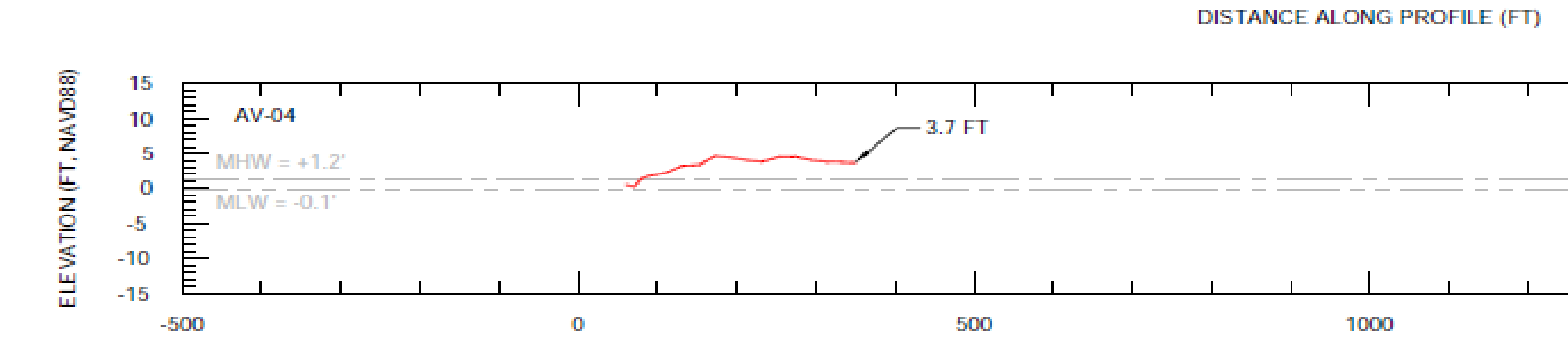
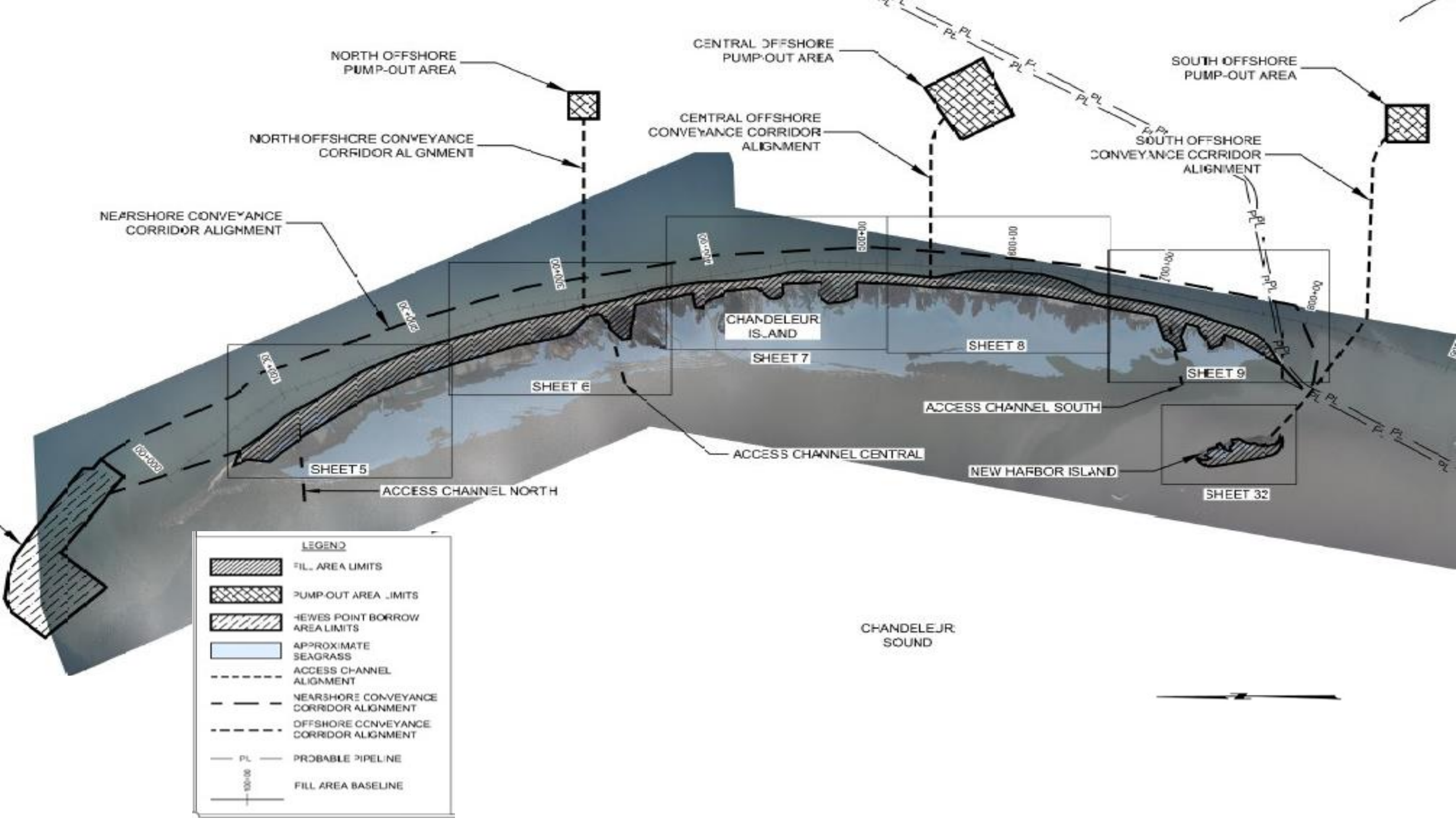
AV-04_03
AV-04_02
AV-04_01



DISTANCE ALONG PROFILE (FT)
ELEVATION (FT, NAVD88)
AV-04
3.7 FT
MHW = +1.2'
MLW = -0.1'
15
10
5
0
-5
-10
-15
-500
0
500
1000



NORTH OFFSHORE PUMP-OUT AREA
CENTRAL OFFSHORE PUMP-OUT AREA
SOUTH OFFSHORE PUMP-OUT AREA
NORTH OFFSHORE CONVEYANCE CORRIDOR ALIGNMENT
CENTRAL OFFSHORE CONVEYANCE CORRIDOR ALIGNMENT
SOUTH OFFSHORE CONVEYANCE CORRIDOR ALIGNMENT
NEARSHORE CONVEYANCE CORRIDOR ALIGNMENT
CHANDELEUR ISLAND
SHEET 5
SHEET 6
SHEET 7
SHEET 8
SHEET 9
SHEET 32
ACCESS CHANNEL SOUTH
ACCESS CHANNEL CENTRAL
ACCESS CHANNEL NORTH
NEW HARBOR ISLAND
CHANDELEUR SOUND
LEGEND
FILL AREA LIMITS
PUMP-OUT AREA LIMITS
HEWES POINT BORROW AREA LIMITS
APPROXIMATE SEAGRASS
ACCESS CHANNEL ALIGNMENT
NEARSHORE CONVEYANCE CORRIDOR ALIGNMENT
OFFSHORE CONVEYANCE CORRIDOR ALIGNMENT
PROBABLE PIPELINE
FILL AREA BASELINE


Photo: Matt Conn SEG Environmental
Whole Ecosystem Restoration

Project Partners

Questions?

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