



City of Destin Harbor Pump

Indian River County Presentation



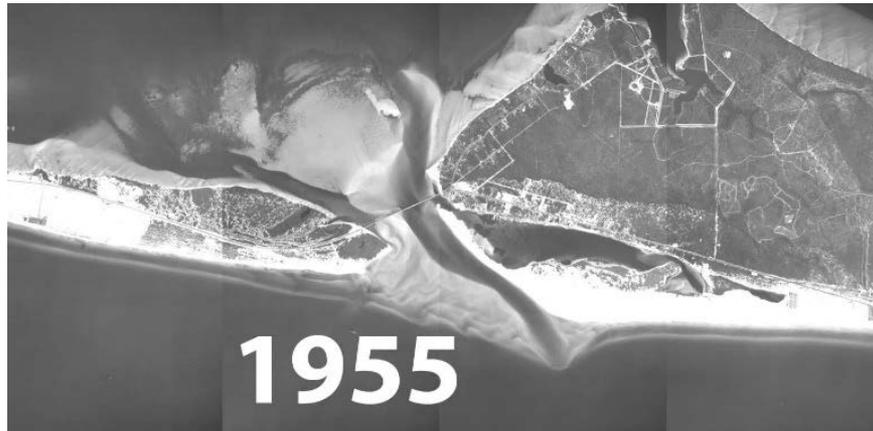
- Destin Harbor overview
 - Need for a pump/Environmental issues
 - The process
 - Evaluation and upgrade
 - Current state of the harbor



- Changing environment
- Growth
- Fishing Fleet/Economy



- Changing environment
- Growth
- Fishing Fleet/Economy



- Changing environment
- Growth
- Fishing Fleet/Economy



- Changing environment
- Growth
- Fishing Fleet/Economy



- Changing environment
- Growth
- Fishing Fleet/Economy



- Changing environment
- Growth
- Fishing Fleet/Economy



Growth/Environmental Issues

The Northwest Florida Coast Resource Planning & Management Committee findings (1985):

- **Poor planning for wastewater treatment and disposal.**
- **Florida Dept. of Transportation stormwater outfalls.**
- **Local stormwater runoff.**
- **Marina activities such as dock construction, boating activities, fish cleaning and waste disposal.**
- **No natural flushing of the harbor.**

**Unmanaged growth did not adequately address environmental and aesthetic planning issues. This growth took place before the city incorporated in 1984.*



- Changing environment
- Growth
- Fishing Fleet/Economy



- Changing environment
- Growth
- Fishing Fleet/Economy



- Changing environment
- Growth
- Fishing Fleet/Economy



How did we go about getting a
Harbor Pump in 1989?

Partners and Funding

- Northwest Florida Coast Resource Planning & Management Committee
- Northwest Florida Water Management District
- National Oceanic & Atmospheric Administration
- Florida Coastal Management Program



Cost

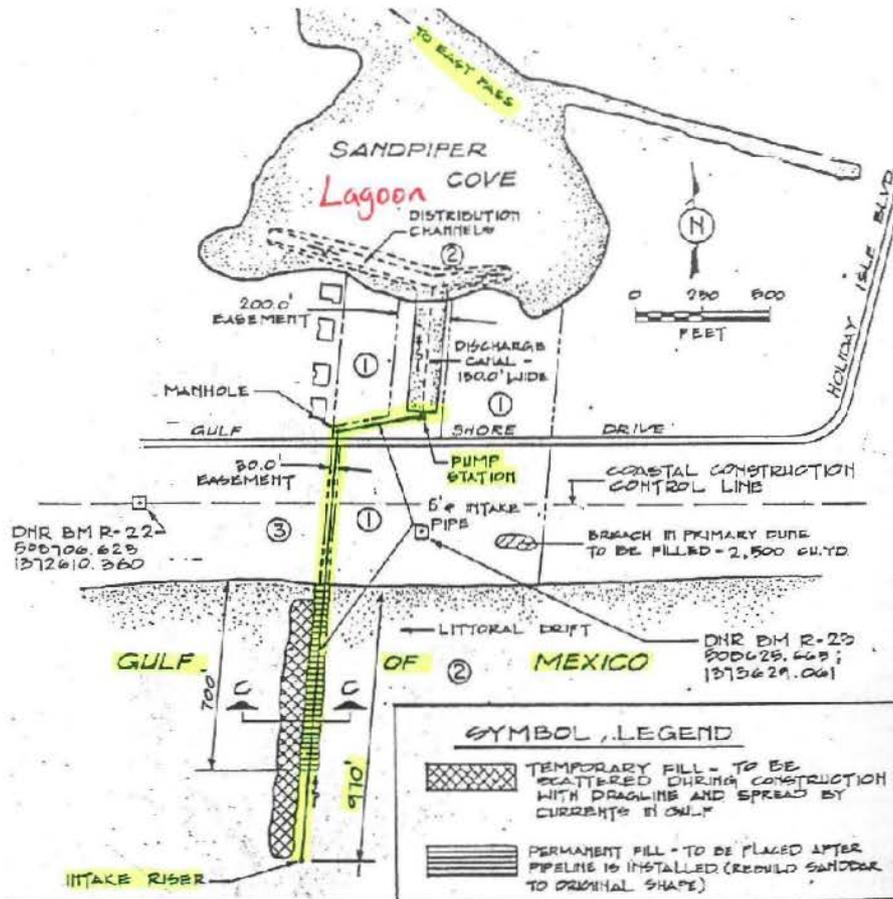
Phase 1 (1989) Pump Station: \$1.5M

- Paid by the state
- Supervised by NWFWMMD

Phase 2 (1992) Gulf Intake & Piping: \$1.8M

- Paid by the City of Destin*
- Supervised by Baskerville-Donovan Engineers

*The City of Destin financed Phase 2 of the project because of legislative hang-ups and the permit issued by the Department of Natural Resources expired.



SITE PLAN
SCALE - 1" = 500.0'

SYMBOL, LEGEND

	TEMPORARY FILL - TO BE SCATTERED DURING CONSTRUCTION WITH DRAGLINE AND SPREAD BY CURRENTS IN GULF
	PERMANENT FILL - TO BE PLACED AFTER PIPELINE IS INSTALLED (REBUILD SANDBAR TO ORIGINAL SHAPE)

PURPOSE: ENHANCE CIRCULATION IN OLD PASS LAGOON	IN: OLD PASS LAGOON, GULF OF MEXICO
DATUM: N.G.V.D. OF 1929	AT: DESTIN STATE: FLORIDA
ADJACENT PROPERTY OWNERS: 1 BURNIEY HENDERSON 2 STATE OF FLORIDA - D.N.R. 3 M & B INVESTMENTS, INC.	COUNTY OF: OKALOOSA
	APPLICATION BY: NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT
	DATE: 4 NOV. 1986 SHEET 2 OF 12



Harbor Pump Station



Harbor Pump Station
725 Gulf Shore Dr



Harbor Pump Station



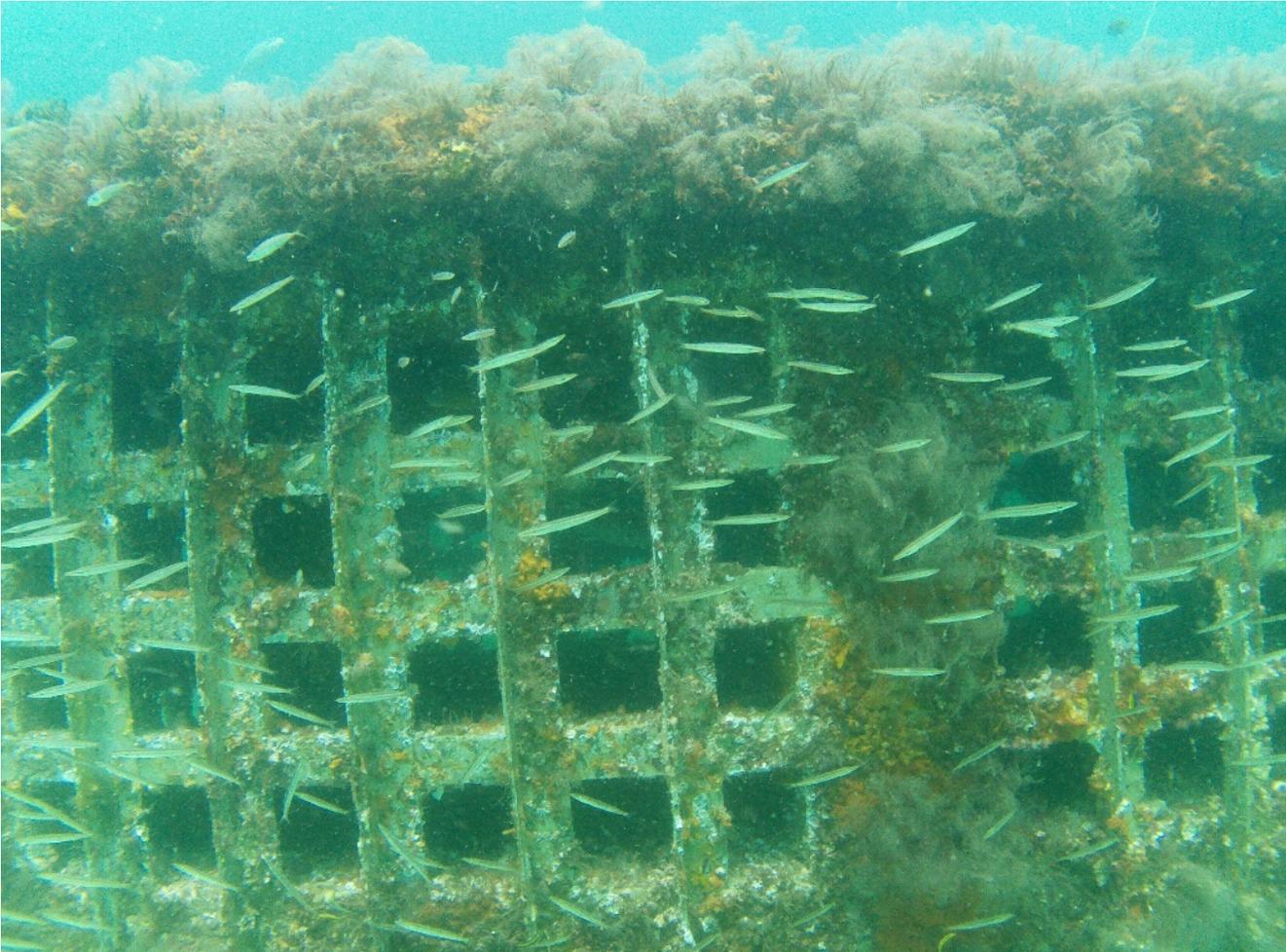


Harbor Pump Station





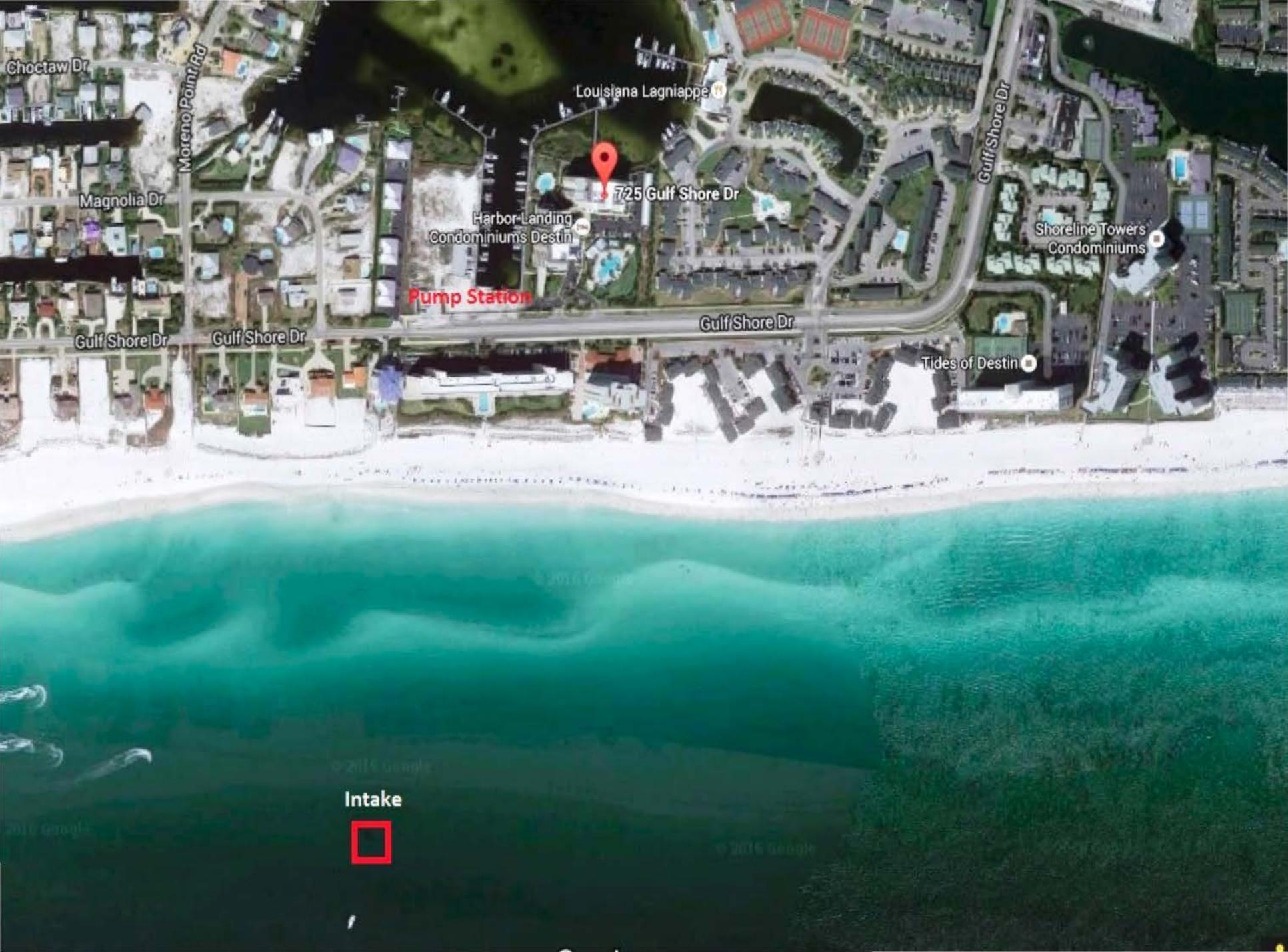
Intake Box





Intake Box





Louisiana Lagniappe

725 Gulf Shore Dr

Harbor Landing
Condominiums Destin

Pump Station

Shoreline Towers
Condominiums

Gulf Shore Dr

Tides of Destin

Intake





Upgrade in 2004

Original Pump (1989)

- Hydraulic submersible motor
- Excessive maintenance
- Prone to mechanical failure due to environmental conditions

2004 Pump

- Electric right angle pump
- Motor housed above water
- Hydraulic component removed
- Possibility of mechanical failure reduced



Upgrade in 2004





Upgrade in 2004





Upgrade in 2004





Upgrade in 2004





Operations

- **Annual Energy Cost: \$20,000**
- **Maintenance Cost: \$5,000**
- **Hours of Operation:** 7 days a week, 11 a.m.-7 p.m.
(Approx. 8 months out of the year)
- **Water testing:** Annual cost of **\$4,280**
 - Maintain Class 3 Surface Water Quality Standard
 - 8 testing locations
 - Dissolved oxygen content, salinity, water clarity, fecal and total coliform (bacteria) and various nutrients.
- **Pumping Capacity (250 hp motor)**
 - Approx. 50,000 gallons per minute



Success

- Maintained Class 3 Surface Water Quality Standard.
- No fish kills.
- Maintained acceptable levels of dissolved oxygen and salinity.

Note: Destin Harbor is a federally-mandated No Discharge Zone.



Questions?