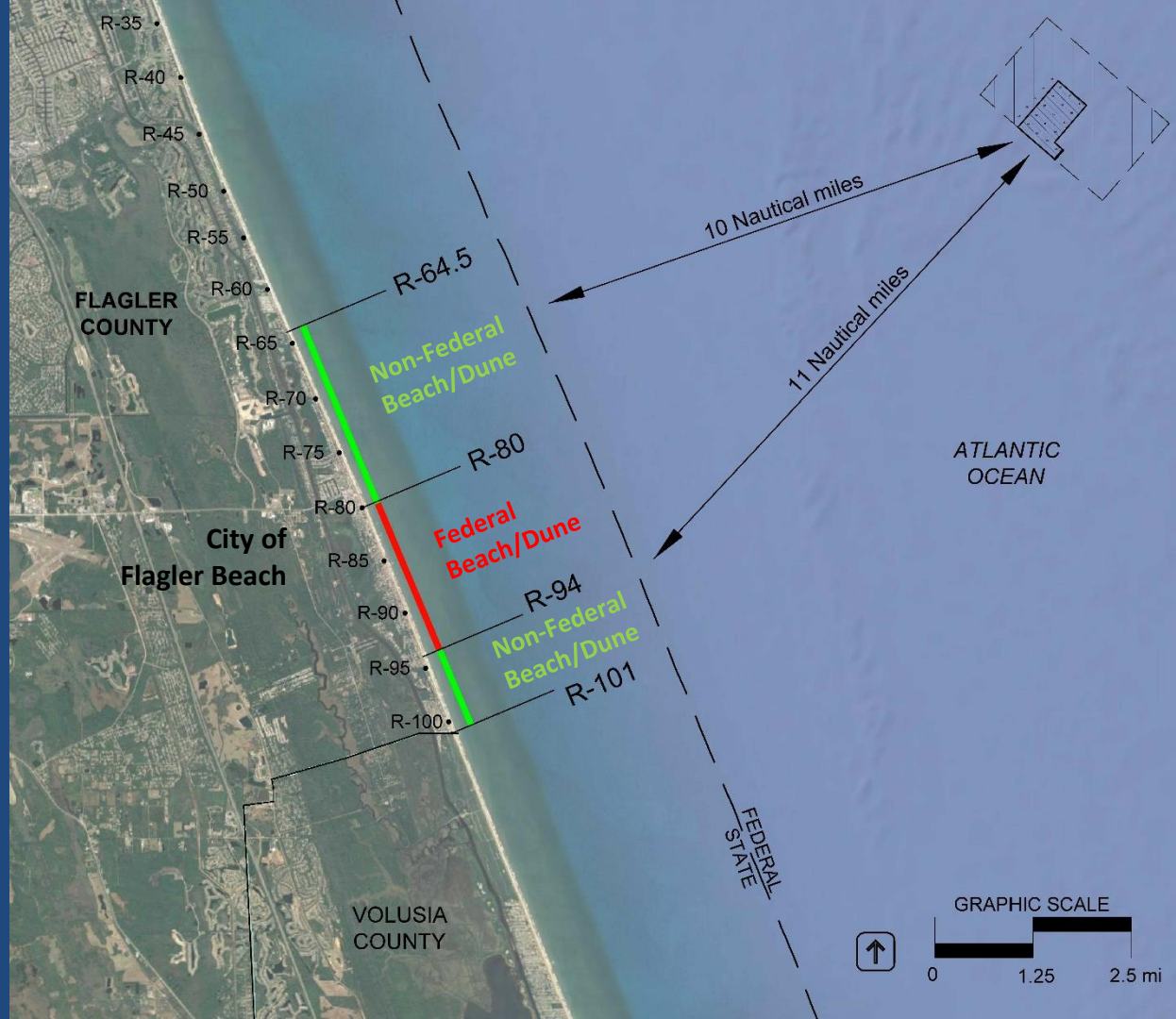


# Flagler County, FL Non-Federal Beach/Dune Restoration Project



# PROJECT LOCATION & COMPONENT GOALS

## BEACH FILL



Northern Non-Federal Project Area  
(Looking southward)

Non-Federal  
Project (South)  
**Federal Project**

S 7<sup>th</sup> St

CITY OF FLAGLER BEACH

N 14<sup>th</sup> St

N 15<sup>th</sup> St

Non-Federal Project  
(North)

N 16<sup>th</sup> St

Northern Non- Federal Project Area  
(Looking northward)

TOWN OF  
BEVERLY BEACH

CITY OF FLAGLER BEACH

N 18th St

Non-Federal Project  
(North)

N 17th St



# Northern End of Northern Non- Federal Project Area (Looking northward)

TOWN OF  
BEVERLY BEACH

CITY OF FLAGLER BEACH

Ocean Marina Drive

N 22<sup>nd</sup> St

Non-Federal Project  
(North)

FDOT  
SEAWALL  
CONSTRUCTION



# Southern Non-Federal Project Area (Looking southward)

Non-Federal Project  
(South)

Volusia County

Gamble  
Rogers SRA \*\*

\*\* Beach fill along Gamble Rogers SRA is subject to approval of FDEP Division of Recreation and Parks and availability of FDEP funding.

S 28<sup>th</sup> St

CITY OF FLAGLER BEACH

S 27<sup>th</sup> St

Federal Project



# Southern Non-Federal Project Area (Looking northward)

\*\* Beach fill along Gamble Rogers SRA is subject to approval of FDEP Division of Recreation and Parks and availability of FDEP funding.

CITY OF FLAGLER BEACH

Gamble Rogers SRA

Non-Federal Project (North)

Federal Project

Non-Federal Project (South)

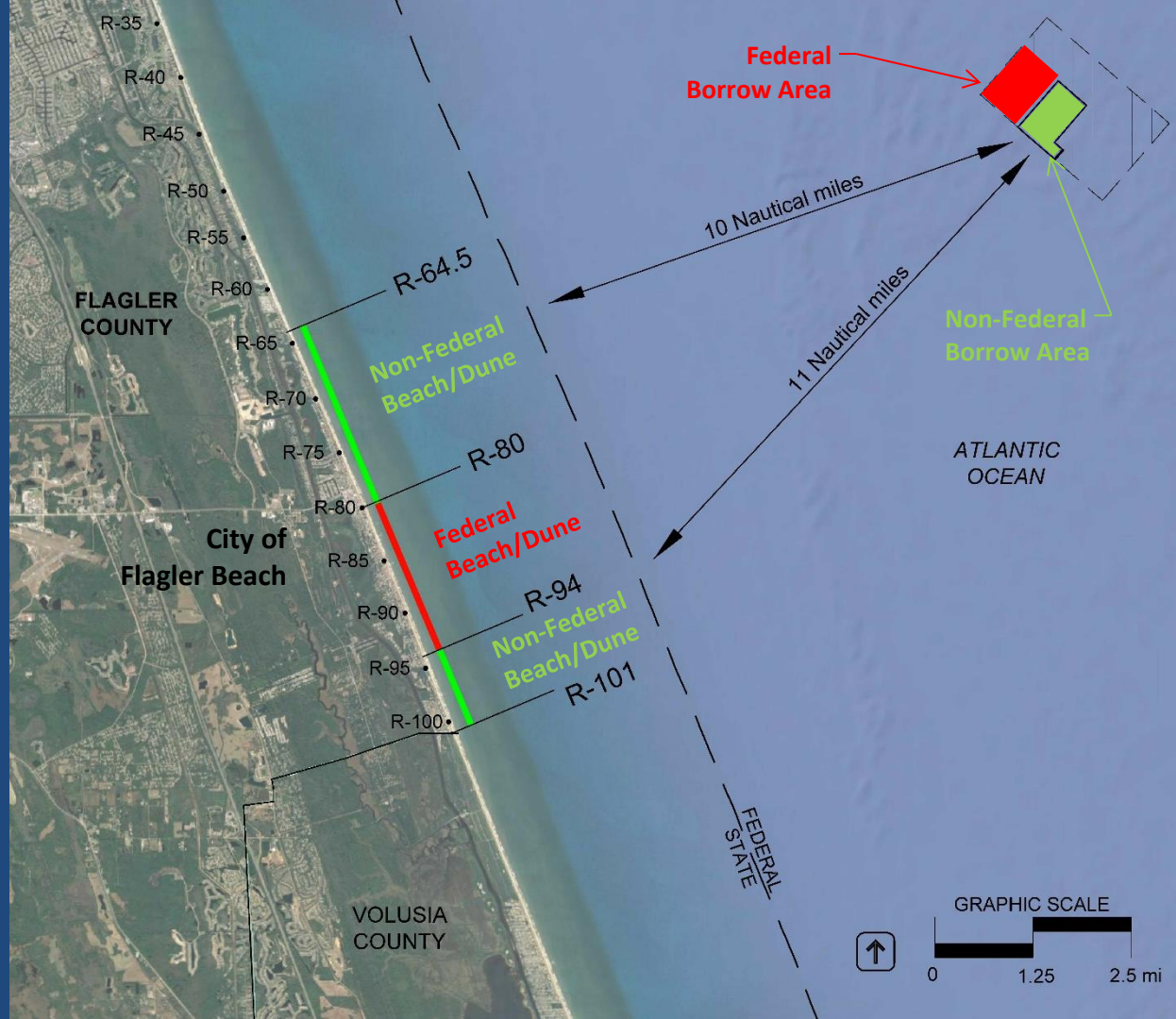






# PROJECT LOCATION & COMPONENT GOALS

## BORROW AREA



# SEABED CONTOURS: NON-FEDERAL OFFSHORE BORROW AREA

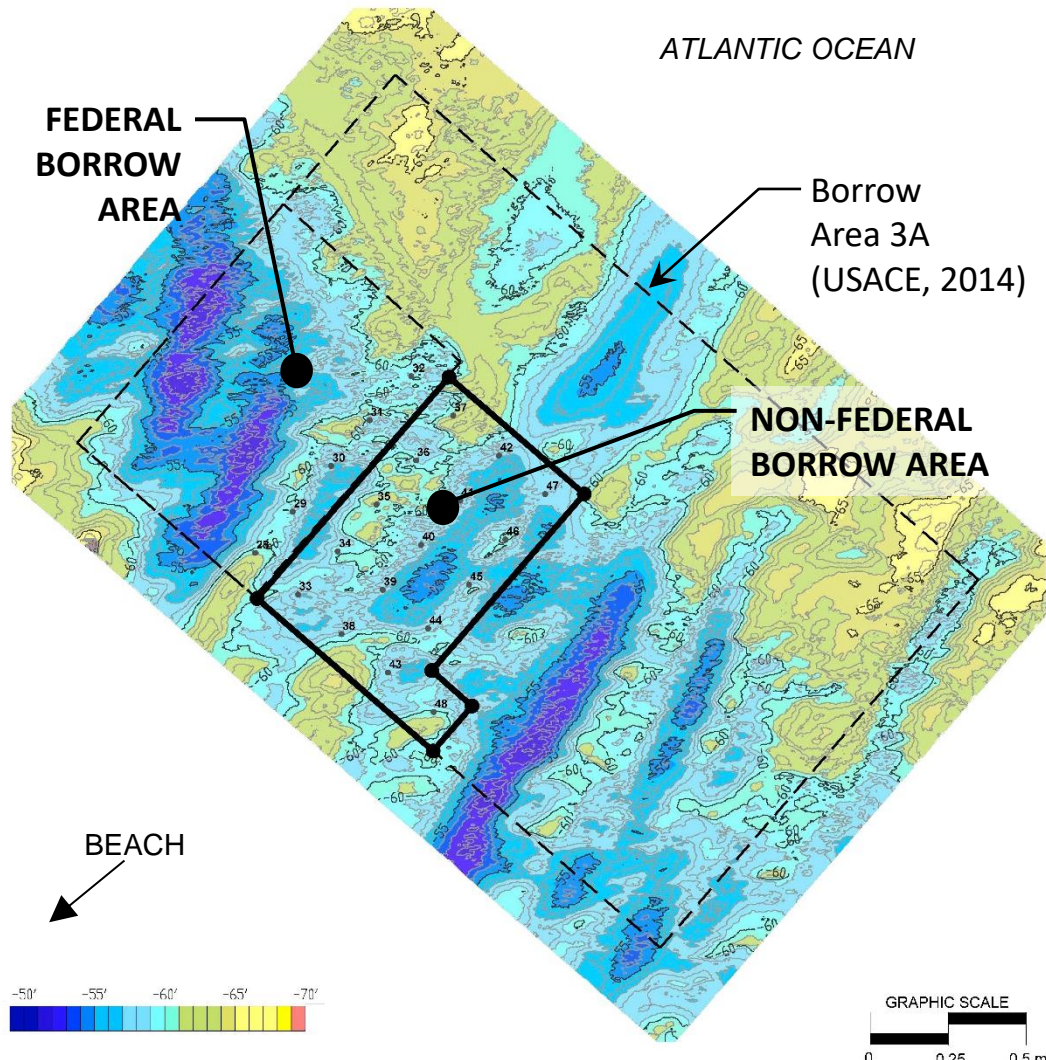
10.5 nmi offshore  
366 acres  
~55 to 60 ft depths

-64 ft cut = ~3.2 mcy of sand  
-65 ft cut = ~3.8 mcy of sand  
-66 ft cut = ~4.4 mcy of sand

Note: The ultimate allowable dredge depth is subject to sand quality and permit review.



USACE  
MULTIBEAM BATHYMETRIC SURVEY  
MAY 2019

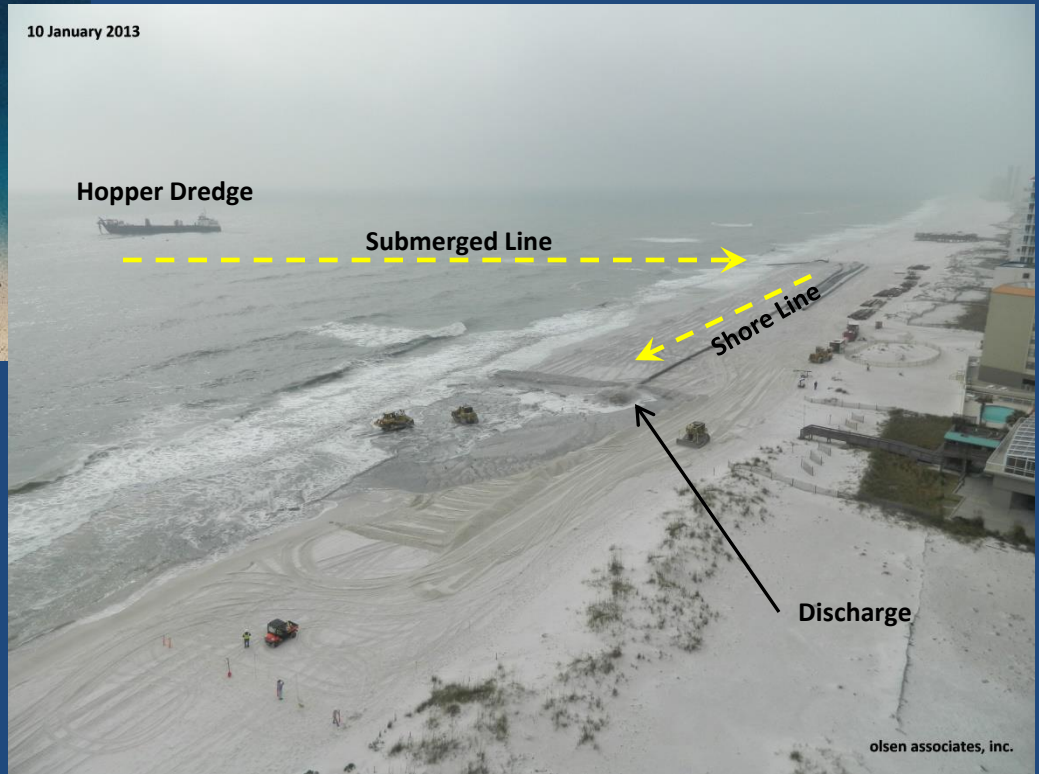


# HOPPER DREDGE

Hopper dredge unloading sand to beach



Hopper dredge loading sand from seafloor



# HOPPER DREDGE

Delivery and Placement from Offshore



25 January 2013



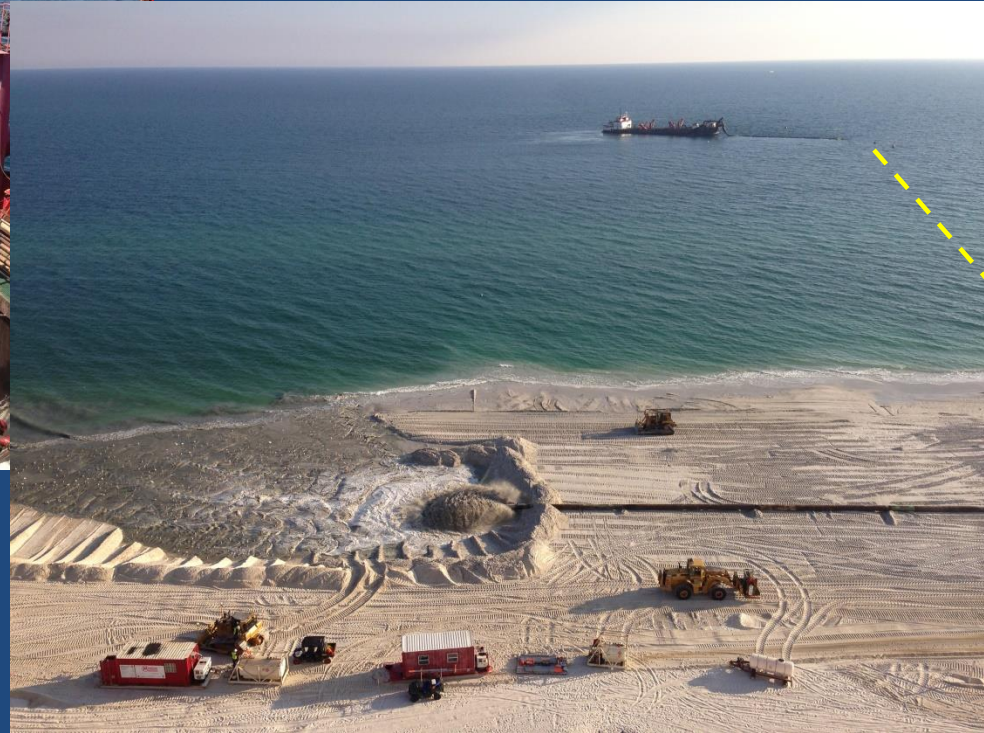
olsen associates, inc.

**Loaded hopper dredge preparing to unload sand to beach**

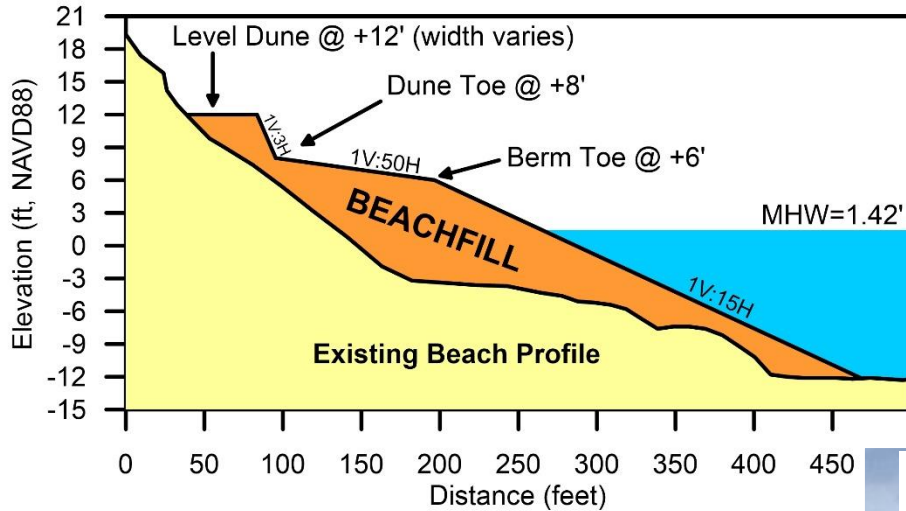


# HOPPER DREDGE

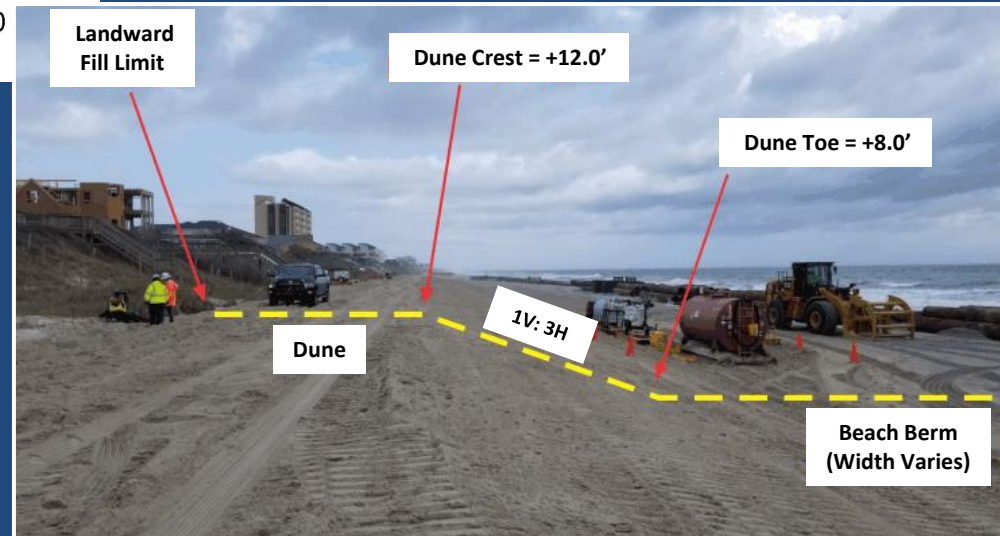
**Hopper dredge unloading sand to beach**



# Example of Constructed Beach/Dune Conditions



**Note:** The ultimate scope and dimension of the beach/dune project is subject to funding availability.



# Flagler County, FL Non-Federal Beach/Dune Restoration Project

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## Schedule Goals

### Goal: Piggy-back on Federal Project and Dredge Mobilization

- **Summer 2019 - FDEP/USACE Permit Application Submittals**
- **June-Oct 2020 – Federal Project Construction**
- **Nov 2020 – Construction Start**

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Note: Success in meeting schedule goal will depend, in part, upon issuance of FDEP and USACE permits in a timeframe that will allow Nov 2020 construction start.