

**Town of North Topsail
Beach
VARIANCE REQUEST**

**2276-2382 New River Inlet Road
North Topsail Beach, North Carolina
Onslow County**

**Presentation Prepared by: Jason Dail
Date: November 16, 2014**

View of project area courtesy of Google Earth 2011



New River Inlet

Sand Spit

Project area

New River Inlet

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34°31'37.27" N 77°20'29.45" W elev 0 ft

©2009 Google

Eye alt 4697 ft



- Wilmington District**
- Right-of-Way Vertices
 - Right-of-Way Monuments
 - Harborline Points
 - Navigation Channel Points
 - Setback Points
 - Right-of-Way
 - Harborlines
 - Disposal Areas
 - Navigation Channels
 - Setbacks
- Last Update: 19 Aug 2011

2382 New River Inlet Road

2276 New River Inlet Road

Overview of Project Area

Topsail Reef

Photo courtesy of Google Earth – 2011 Imagery

©2009 Google™

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34°31'30.09" N 77°20'46.92" W elev 8 ft

Eye alt 2649 ft

Overview of project area. Photo courtesy of Google Earth – April 2013

- Wilmington District**
- Right-of-Way Vertices
 - Right-of-Way Monuments
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- Last Update: 19 Aug 2011

Port Drive Beach Access

Beach Access (BA47)

Project Area



© 2014 Google

Image © 2014 DigitalGlobe
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34°31'30.56" N 77°20'45.76" W elev 7 ft

©2009 Google™

Eye alt 2018 ft

**View of project area looking north from
Beach Access 47. Photo taken by DCM
staff on August 1, 2014.**

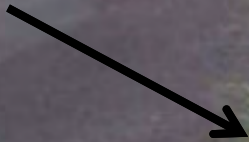


**View Looking South from Port Drive Beach Access.
Photo taken by DCM staff on August 1, 2014**

Topsail Reef



Erosion Escarpment





**2324 New River
Inlet Road**

Erosion Escarpment

**View looking North from Port Drive Beach Access.
Photo taken by DCM staff on August 1, 2014**

View of project site looking South from Port Drive Beach Access. Photo taken by DCM staff on August 11, 2014.

Topsail Reef



2314 New River Inlet Road

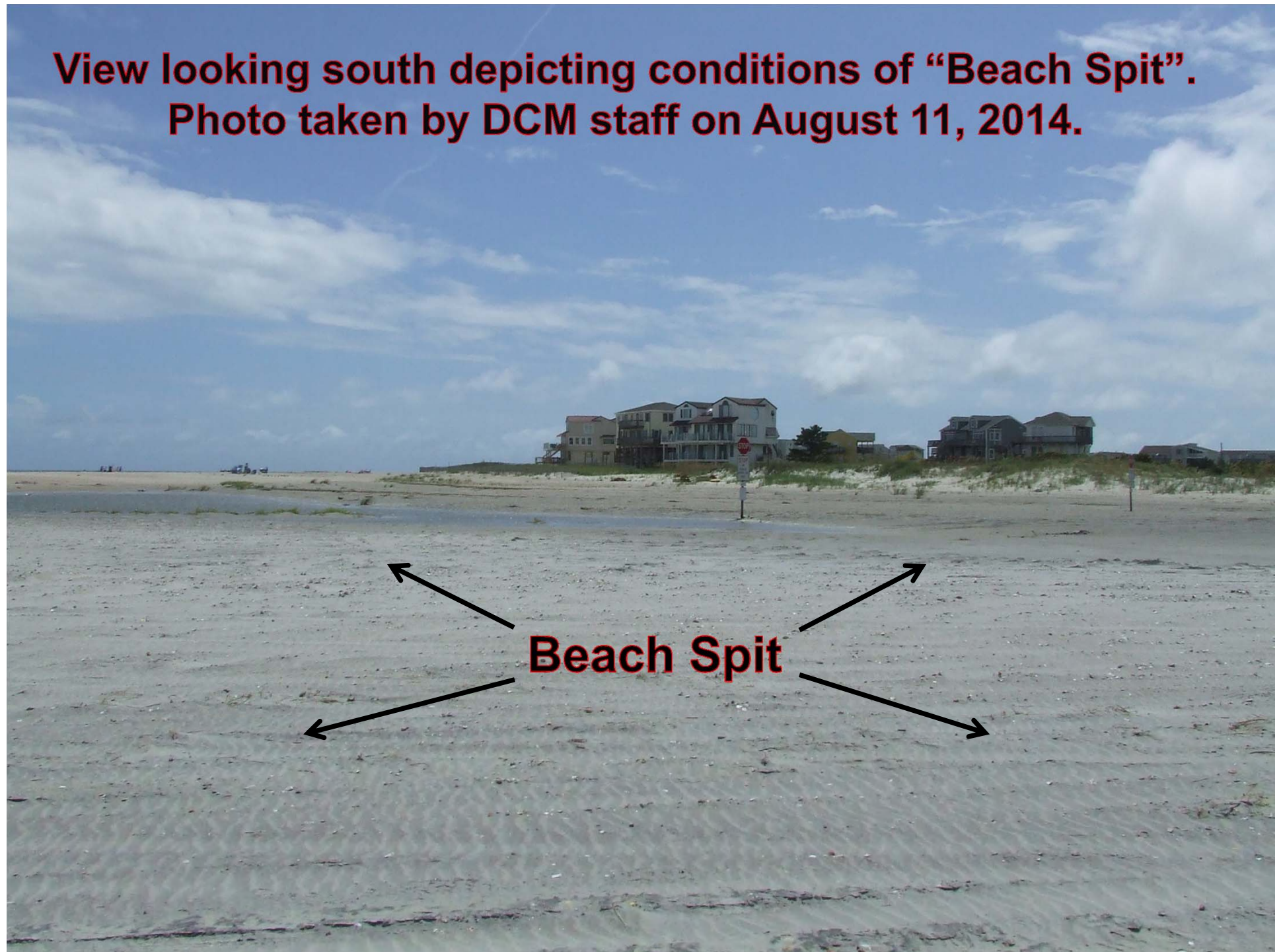


**Photo of project area looking North from beach.
Photo taken by DCM staff on August 11, 2014.**

← 2324 New River Inlet Road



**View looking south depicting conditions of “Beach Spit”.
Photo taken by DCM staff on August 11, 2014.**

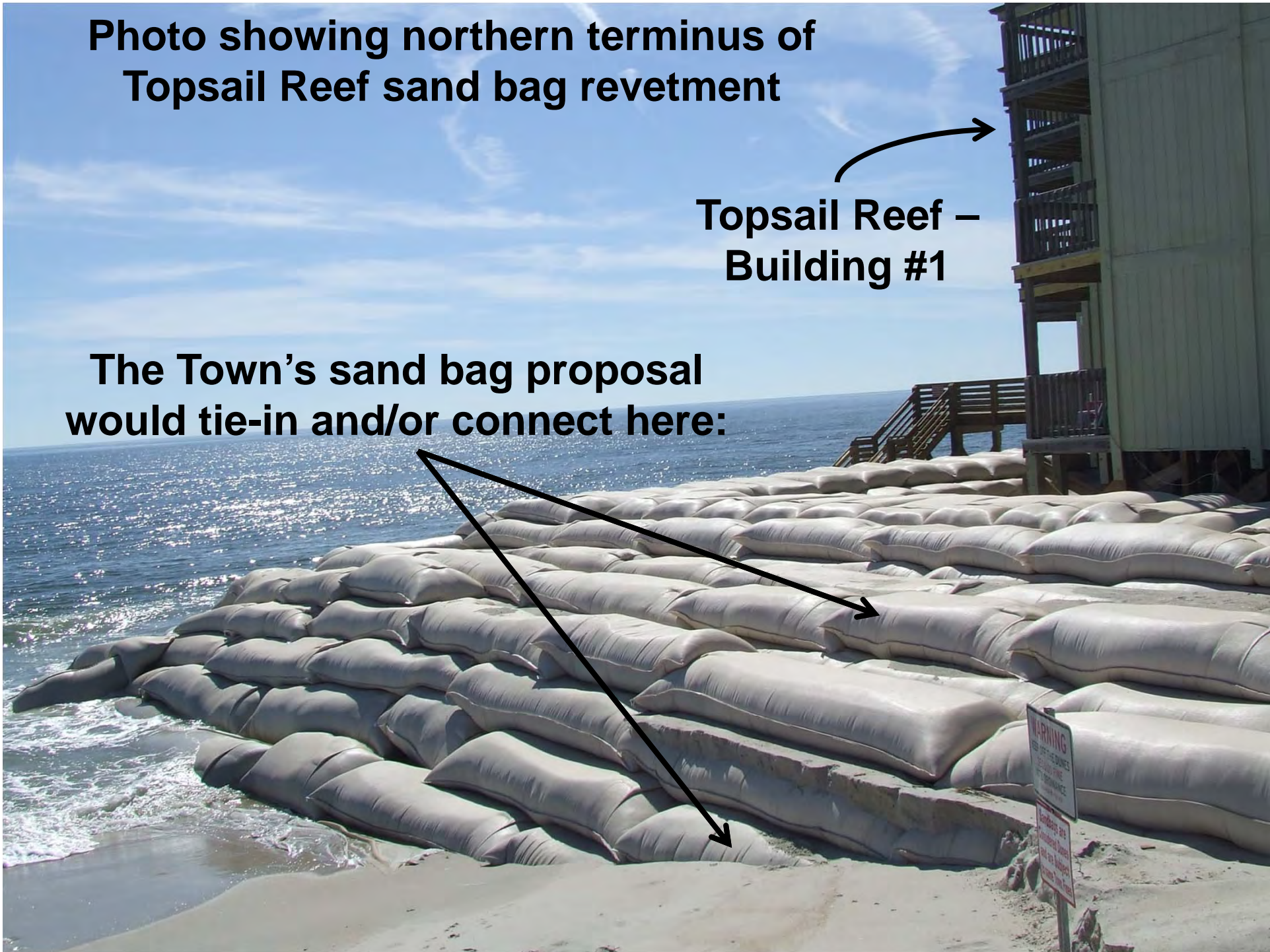


Beach Spit

**Photo showing northern terminus of
Topsail Reef sand bag revetment**

**Topsail Reef –
Building #1**

**The Town’s sand bag proposal
would tie-in and/or connect here:**



**Photo provided by Petitioner – Labeled “North End North
Topsail Beach Before Phase I, November 20, 2012”**



727.520.8181
www.aerophoto.com

**New River Inlet Realignment
with Beach Renourishment**

Image # 121120 0010
Date 11.20.12

Photo provided by Petitioner – Labeled “North End North
Topsail Beach After Construction of Phase 1 February 20,
2013”



727.520.8181
www.aerophoto.com

New River Inlet Realignment
with Beach Renourishment

Image # 130220 0009
Date 02.20.13

**Photo provided by Petitioner – Labeled “North End before
Phase 1 November 23, 2012”**



Photo provided by Petitioner –
Labeled “North End after
Phase 1 January 30, 2013”



Erosion Hot-Spot

Flood Channel
Related Erosion

5/25/02

Onslow Beach

Post-Hurricane Ophelia

FC

9/20/05

9/18/05

B

Photo
provided by
Petitioner

Example of Pre-Existing
Condition

Slide courtesy of
Dr. William Cleary



Longitudnal Bar

Marginal Flood Channel

Elongating Spit

Incipient Linear Bar Complex

Photo provided
by Petitioner

October 5, 2014 Photo and Slide Courtesy of Dr. William Cleary

10/5/2014

Photo provided by Petitioner



October 5, 2014 Photo and Slide Courtesy of Dr. William Cleary

10/5/2014



Photo provided by Petitioner

October 5, 2014 Photo and Slide Courtesy of Dr. William Cleary

October 5, 2014 Photo and Slide Courtesy of Dr. William Cleary



Elongating Spit

Linear Bar Complex

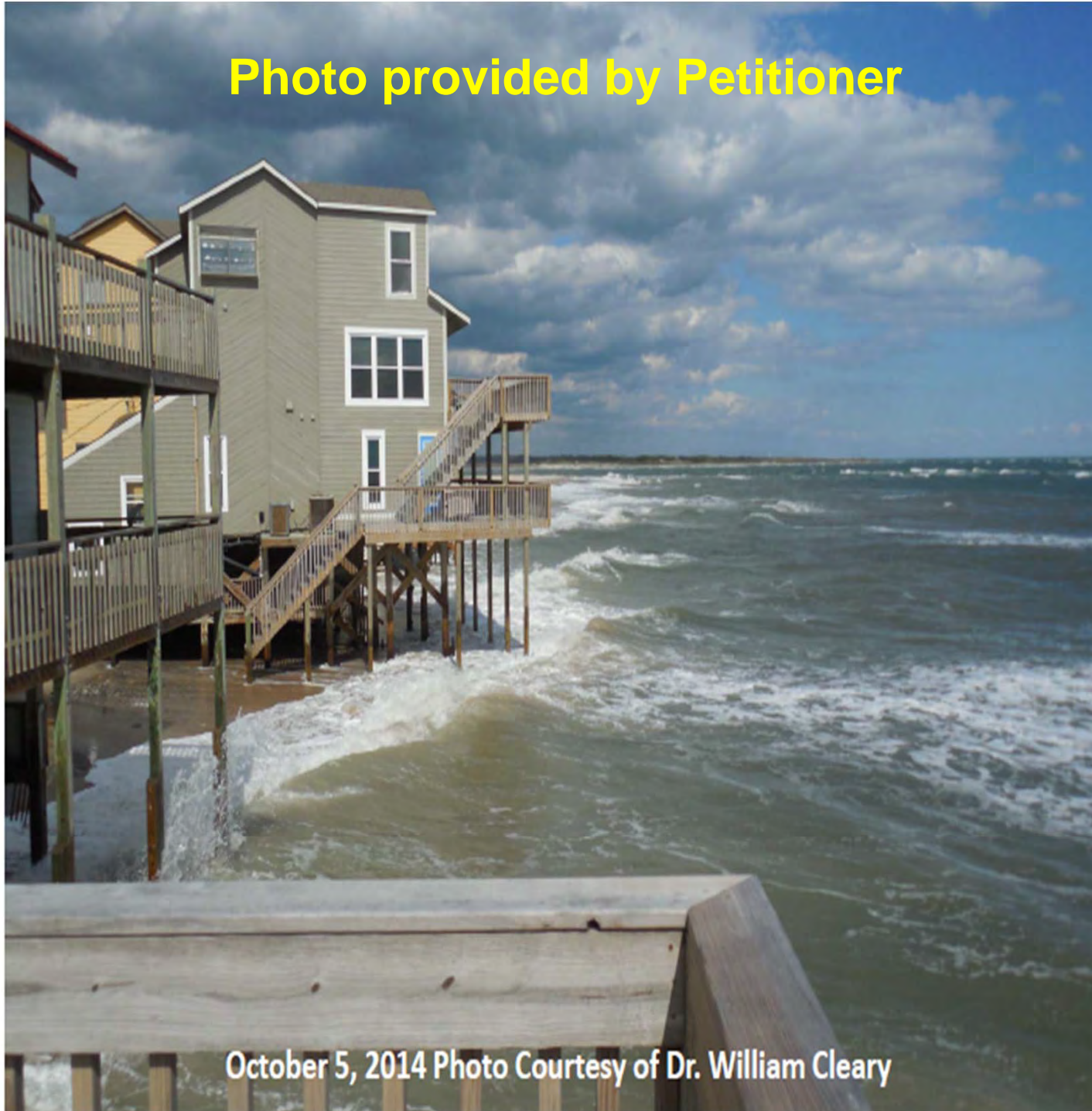
Flood Channel

Longitudnal Bar

Photo provided by Petitioner

10/5/2014

Photo provided by Petitioner



October 5, 2014 Photo Courtesy of Dr. William Cleary

Photo provided by Petitioner



North End North Topsail Beach
October 16, 2014
Note old sandbag revetment

Photo provided by Petitioner



North End North Topsail Beach
October 16, 2014