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TOWN OF CHILMARK  
CHILMARK, MASSACHUSETTS

**TOWN OFFICES:**  
Beetlebung Corner  
Post Office Box 119  
Chilmark, MA 02535  
508-645-2100  
508-645-2110 Fax

April 12, 2019

Ms. Mia Mansfield, Director of Climate Adaptation and Resilience  
Executive Office of Energy & Environmental Affairs  
100 Cambridge Street; Suite 900  
Boston, MA. 02114

Subject: MVP Grant Program; Commbuys Bid # BD-19-1042-ENV-ENV01-36247

Dear Mia,

This provides five original copies of the Town of Chilmark's grant application under your MVP Grant Program—enclosed. I will also separately email you a pdf of the complete application. Please let me know if you will need any additional information or copies in a different format.

I had the opportunity of working with Bill Hinkley on Chilmark's managed retreat and restoration of our Squibnocket Beach and parking area. Your financial assistance was much appreciated.

I look forward to working with you on this important and challenging project.

Sincerely,

Chuck Hodgkinson



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## TOWN OF CHILMARK CHILMARK, MASSACHUSETTS

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Post Office Box 119  
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April 12, 2019

Mr. Matthew A. Beaton, Secretary  
Executive Office of Energy & Environmental Affairs  
100 Cambridge Street; Suite 900  
Boston, MA. 02114

Subject: MVP Grant Program; Commbuys Bid # BD-19-1042-ENV-ENV01-36247

Dear Secretary Beaton,

The Town of Chilmark is an MVP community that has demonstrated success in taking pro-active measures to mitigate the impacts of climate change and rising sea level. The enclosed application requests the Commonwealth's financial assistance to field a study that provides a risk assessment with specific short and long term action plans that can be undertaken to protect Menemsha Village from these real environmental threats.

Our Project Manager Chuck Hodgkinson has a proven track record for building consensus and overcoming obstacles on complex projects. He has the full confidence and support of the Chilmark Board of Selectmen.

May I also take this opportunity to thank your office for the generous \$200,000 grant the Town received to accomplish its highly successful managed retreat and restoration plan for Squibnocket Beach. We look forward to working with your team again and are hopeful for your continued support.

Sincerely,

Warren Doty  
Chilmark Selectman

**EXECUTIVE OFFICE OF ENERGY & ENVIRONMENTAL AFFAIRS**

**Matthew A. Beaton, Secretary**

**Grant Announcement**

**Commbuys Bid # BD-19-1042-ENV-ENV01-36247**

**Request for Responses (RFR) ENV 19 MVP 02**

**Dated: March 1, 2019**

**MUNICIPAL VULNERABILITY PREPAREDNESS GRANT PROGRAM (MVP)**

**FY 19 MVP ACTION GRANT**

**Town of Chilmark**

**Menemsha Village Vulnerability and Risk Assessment Study**

**Attachment A: Application**

**Municipal Vulnerability Preparedness Grant Program Application Form  
RFR ENV 19 MVP 02**

- 1. **Municipality:** Town of Chilmark
  
- 2. **Project Title:** Menemsha Village Vulnerability & Risk Assessment Study
  
- 3. **Type of Project:**  Detailed Vulnerability and Risk Assessment and Further Planning
  - Community Outreach and Education
  - Local Bylaws, Ordinances, Plans, and Other Management Measures
  - Redesigns and Retrofits
  - Energy Resilience Strategies
  - Chemical Safety & Climate Vulnerabilities
  - Nature-Based Flood Protection, Drought Prevention, Water Quality, and Water Infiltration Techniques
  - Nature-Based, Infrastructure, and Technology Solutions to Reduce Vulnerability to Extreme Heat and Poor Air Quality
  - Nature-Based Solutions to Reduce Vulnerability to other Climate Change Impacts

4. **Contact Person: Chuck Hodgkinson**

Agency: Town of Chilmark

Address: Chilmark Town Hall; 401 Middle Rd.; P.O. Box 119; Chilmark, MA.

Zip: 02535

Telephone (508) 645-2114; Fax (508) 645-2110

Email: chodgkinson@chilmarkma.gov

5. **Proposed Funding:**

Total Project Cost: \$160,000

Grant Request: \$120,000



Municipal Match (at least 25% of total project cost): \$ 40,000

Other: (other grant(s) applied for): \$ 0

6. **Project Summary** (1-2 short paragraphs describing the project):

The Town of Chilmark was incorporated on September 14, 1694. In every Chilmark Master Plan survey taken since 1979, Chilmark voters and non-voting taxpayers have listed Menemsha as first among all places they consider of special importance to the community. Menemsha's heritage is actively preserved as a working commercial fishing harbor and village. It is also home to many recreational activities such as: the only public beach on Vineyard Sound and the north shore of Martha's Vineyard; it is a resident and transient recreational boater destination; it has a wholesale commercial fish buyer and processor for all island fishermen to sell their local catch; it's home to two popular retail fish markets; it is also the only up-island fuel dock for boaters and is the only gas station for the Towns of Chilmark and Aquinnah. It is also home to the island's United States Coast Guard Station Menemsha.

The Town of Chilmark owns all of the waterfront land abutting Menemsha Basin. It leases small lots to the waterfront fish markets and the gas station/fuel dock business; it also leases lots to local fisherman who store their gear in traditional fishing "shacks" located along the commercial fishing pier Dutcher's Dock. All of this infrastructure and the Town's "soul" are at extreme risk to rising sea level. Menemsha Basin now floods the fixed dock and fixed gas dock with each moon tide. As little as 20 years ago this was only a rare occurrence experienced during hurricanes or significant storms. The Town is seeking financial assistance and advice to field a risk assessment and alternative actions analysis with the goal of preserving this iconic village and island destination.

## 7. Project Narrative

Please provide your full project narrative. See Section 3A for more specifics on each criterion. Use the rating system as a guide for what information should be included in the narrative to ensure the maximum score possible for your project. Only use the space provided.

### a. Problem This Project Will Address and Climate Change Adaptation

The Town of Chilmark understands the severe threat of rising sea level and has already taken actions to address the issue at Squibnocket Bight. With assistance from the Executive Office of Energy and Environmental Affairs, Chilmark was the first town on Martha's Vineyard to successfully execute a complex managed retreat plan which was a proactive venture that was not accomplished under reactionary, emergency circumstances. This was a public/private partnership that provided homeowner access, a relocated town beach parking lot and the complete removal of a revetment and other man-made structure to restore Squibnocket Beach back to its natural state.

The success of this project motivated the Town to enroll as an MVP Community. It also provided the momentum and credibility to tackle the much more complex problem of rising sea level impacts to the Town's Menemsha Village. There are public safety, economic, natural resource, utilities and town infrastructure, commercial buildings and essential town services at risk in Menemsha as outlined in the project summary statement.

The enclosed exhibits demonstrate the busy and diverse set of activities that take place in Menemsha Village and on Menemsha Basin's waterfront.

- Exhibit I: A view of Menemsha Basin and Village on a typical summer day.
- Exhibit II: A view of Menemsha Basin and the marine uses of:
  - Public beach and parking lot on Vineyard Sound;
  - Commercial, residential and transient boating activity;
  - US Coast Guard Station Menemsha barracks and boathouse
- Exhibit III: I closer view of:
  - The commercial fishing dock "Dutcher Dock"
  - Gas Station "Menemsha Texaco"
  - The Harbormaster Building
  - Two retail fish markets
  - Several commercial fishermen's shacks
- Exhibit IV: Menemsha inlet and public beach with shoreline migration data from MA. Coastal Zone Management database
- Exhibits V A, B, C, D: Mensmsha Basin extreme moon tide flooding of Dutcher Dock & Fuel Dock
- Exhibit VI: US Coast Guard Station Menemsha July 12, 2010 boathouse fire. This was not caused by rising sea level. It demonstrates the Town's will and motivation To do what it takes to preserve this important waterfront hub of activity.
- Exhibit VII: Projected rising sea level impacts map for a 3 meter and 6 meter rise in sea level

**b. Need for Assistance (EOEEA Use)**

### c. Project Description

The Town is seeking funds to hire an accredited coastal engineering firm to perform a study with the goal of providing specific short and long term actions for community review and execution. These actions will protect this crucial and historic town village and island attraction from projected sea level rise. We anticipate the study will provide the following deliverables:

- A progressive projected and quantified set of sea level elevations compared to the current elevations with rough milestone dates for the projections.
- A quantified set of projected impacts at various stages of rising sea level.
- A specific set of short term actions that can be taken to address this risk and protect each of the community services and benefits available to the public in Menemsha. These remedies should include natural barrier solutions for defending against sea level rise.
- Identify possible defensive engineering solutions for specific structures or features.
- A separate set of long term actions that can be taken to address the rising sea level risk and preserve the community services and benefits available to the public in Menemsha for the next 100 years.
- Long term, if some structures or features need to be relocated, this should be specified with rationale.
- An itemized rough cost estimate for accomplishing each of the short and long term suggested actions.
- A rough timing for executing each of the specific short and long term actions. The costs and timing should consider the following elements:
  - o Design and bid specification preparations
  - o Timing to execute the various elements--and sequence--of the specific actions.

#### Project Team:

Chuck Hodgkinson will be the project manager for the Town. Additional assistance (if necessary) will come from Reid Silva PE, owner, Vineyard Land Surveying & Engineering; West Tisbury

#### Community Resilience:

If successful, the transformation and preservation of Menemsha to accommodate sea level rise will demonstrate to other communities on the cape and islands that a pro-active approach executed under normal conditions -- rather than as reactive, emergency remedies -- is not only possible but, is very cost effective in the long run. Any opportunities for public/private partnerships will be explored.

#### **d. Feasibility and Transferability**

The credibility and possibility of this endeavor will be supported by the Town's highly successful transformation of Squibnocket Beach. We will leverage this success and use the same methods to obtain complete community support for the actions and required funding. Bill Hinkley was our EOEEA partner for the Squibnocket project. The Town hosted scheduled weekly public discussions over a 6 month period to obtain community input and eventual support for the Squibnocket Plan. This was followed with three years of engineering design, permitting and successive town meeting funding approvals. The construction from start to finish took 10 months. The project came in on time and on budget.

Over several years and during the Squibnocket Beach planning period Chuck Hodgkinson made numerous case study presentations to various towns and interested parties on the cape and islands. These two-day seminars were sponsored and coordinated through Steve McKenna, Director, MA. Coastal Zone Management for the Cape and Islands. The presentations outlined the necessary steps, hurdles, setbacks and funding strategies that ultimately led to the success of the Squibnocket project. Toward the end we referred to the Squibnocket Project as the "poster child" for successful public and private partnerships that can pro-actively address the impacts of rising sea level.

**e. Community Outreach, Engagement, and Education**

We will share the study and conclusions with town residents in the manner similar to the one used for the Squibnocket Beach project. A town-sanctioned committee will be formed to host the discussions. As reference, here is the process used to obtain unanimous approval and funding for the Squibnocket project.

- 21 public meetings
- 13 presentations
- 5 expert opinions
- Input from four town boards
- Independent consultant studies
- Five successive special town meeting approvals

**f. Incorporation of Nature-based Solutions and Strategies**

The Town always considers nature-based solutions that allow for human activity while protecting its natural resources. This is evident when it recommended removing all the man-made structures, revetment, parking lot and utilities from Squibnocket's ocean front and barrier beach. The beach was then restored with 3,500 cubic yards of compatible sand obtained from the Army Corps of Engineers' dredging of Menemsha Channel from Vineyard Sound to Menemsha Pond. An additional benefit was the incorporation of features that now make Squibnocket Beach fully accessible to people with disabilities. As a result, the project was finished on the Thursday before the 2018 Memorial Day weekend. Squibnocket beach pass sales increased + 45 percent last summer over 2017.

### **g. Timeline and Budget**

With the assumption you choose to award this grant request, the following are the next steps with estimated timing:

- June 2019 notification of grant award and execute contract.
- July 2019 prepare Request for Proposals for the study.
- September 2019: Review RFP responses, award project.
- October 2019: Sign contract with the successful coastal engineering firm.
- October 2019 – February 2020: Work with engineering firm on gathering data and producing a rough draft report.
- March-April 2020: Prepare final report and powerpoint presentation.
- May-June 2020: Hold first presentation to the Board of Selectmen with data, conclusions and suggested short and long term actions.

#### **Budget:**

Unlike construction projects that facilitate calculating itemized budgets for specific tasks, the cost of a study as outlined in this request is an all-inclusive, one number figure that compensates the contractor for each of the deliverables.

It is estimated the study will cost a total of up to \$160,000. This will cover any and all costs to prepare and issue the RFP, legal counsel costs for preparing the contract and compensate the successful bidder for the study. \$40,000 or 25 percent will be paid by the Town. The requested grant amount is \$120,000 or 75% of the total estimated budget.

The funds will be used to compensate the successful bidder to: evaluate existing data, secure new data, prepare a situation analysis and projections of sea level rise impacts, conclusions and recommendations, report preparation, travel and incidental expenses related thereto.



#### **h. Project Management and Partners**

The project management team will include:

Chuck Hodgkinson: Project Manager

Additional assistance as needed:

Reid Silva, PE, PLS, owner Vineyard Land Surveying & Engineering

Steve McKenna, Director, MA. Coastal Zone Management for the Cape and Islands

Greg Berman, PG, GISP, M.S. Geological Oceanography; Coastal Zone Specialist, Woods Hole Oceanographic Institute

#### Chuck Hodgkinson Island Resume:

I am a 15-year, full time employee for the Town of Chilmark. I work with the town's:

Zoning Board of Appeals,

Conservation Commission (I am also the Town's Conservation Agent),

Site Review Committee,

Community Preservation Committee

Human Resources Board,

Historical Commission,

Park & Recreation Committee.

I also work on special projects for the Board of Selectmen, Housing Committee and Planning Board. A few of these special projects have included overseeing the Town's Middle Line Road and Nab's Corner Community Housing developments; the public hearing moderation and permitting for the Town's Distributed Antenna System to improve cell service; the joint venture to expand Squibnocket Beach, to relocate the roadway and Town parking area—this included applying for and receiving a \$200,000 EOEAA state grant to fund the Town's construction elements; preserving the Town's historic Tea Lane Farm house and securing the property's continued operation as a working farm; helping the Harbor Management Committee reach consensus on how to rebuild the Menemsha Basin gas and transient docks.

I am also quite involved in several community and island affairs. I am an elected member of West Tisbury's Finance Advisory Committee. I served on the Martha's Vineyard Striped Bass and Bluefish Derby's Executive Committee for eight years and was its Chairman for over two years. I was the Co-Chair of West Tisbury's Mill Brook Watershed Planning and Management Committee. I chaired West Tisbury's long range Space Needs Planning Committee which outlined a 20-year facilities renovation, construction and financial plan for all Town functions and departments. This created the plan to renovate Town Hall—of which I subsequently served on the Town Hall renovation committee; the renovation and expansion of West Tisbury's Library and the construction of the new Police Station. The Town just finished building the last element of the plan – construct a storage barn for the highway department. I am also the Treasurer of the Friends of the Chilmark Public Library, Inc.

I also served 6 years on the Trustees of Reservations' (The Trustees) Chappaquiddick Committee and also served on The Trustee's Corporate Strategic Enterprise Committee in Boston which reported to the Board of Directors.

8. Attach **Yearly Progress Report** (use EEA-provided template in Attachment F) N/A

9. Attach **Statement of Match** (described in Section 2E) N/A

4/12/2019  
Date

Warren Doty  
Signature of Chief Municipal Officer

Warren Doty, Chilmark Selectman

Duration of Term: Warren Doty has served as a Selectman for 7 terms; 21 years. His current term expires in 2020.

Mailing Address: Chilmark Town Hall  
P.O. Box 119  
Chilmark, MA. 02535  
Telephone: (508) 645-2100

## MUNICIPAL VULNERABILITY PREPAREDNESS PROGRAM FY 19

### MVP ACTION GRANT

#### RFR ENY 19 MVP 02

### TOWN OF CHILMARK EXHIBITS

- Exhibit I: A view of Menemsha Basin and Village on a typical summer day.
- Exhibit II: A view of Menemsha Basin and the marine uses of:
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- Exhibit VII: Projected rising sea level impacts map for a 3 meter and 6 meter rise in sea level





EXHIBIT I





EXHIBIT II





EXHIBIT III





- Boundaries
- Biology
- Coastal Hazards
  - Erosion
    - High Water Shorelines (1800s-2009)
    - Shoreline Change Transects
    - Private Shoreline Stabilization Structures, 2013
    - Public Shoreline Stabilization Structures, 2009
    - Public South Shore Shoreline Stabilization Structures
  - Flooding
  - Sea Level Rise
- Geology
- Oceanography and Weather

#### Active Data Layers

Check all    Uncheck all    Remove all

- High Water Shorelines (1800s-2009)
- Shoreline Change Transects
- Massachusetts Lateral Boundaries
- Submerged Lands Act (SLA) Boundary
- Massachusetts Municipal Boundaries Lines

#### Legend

##### High Water Shorelines (1800s-2009)

- - - 1844 - 1897
- - - 1909 - 1938
- - - 1943 - 1969
- - - 1970 - 1982
- - - 1994
- - - 2000
- - - 2001
- - - 2007 - 2009

##### Shoreline Change Transects

EXHIBIT IV



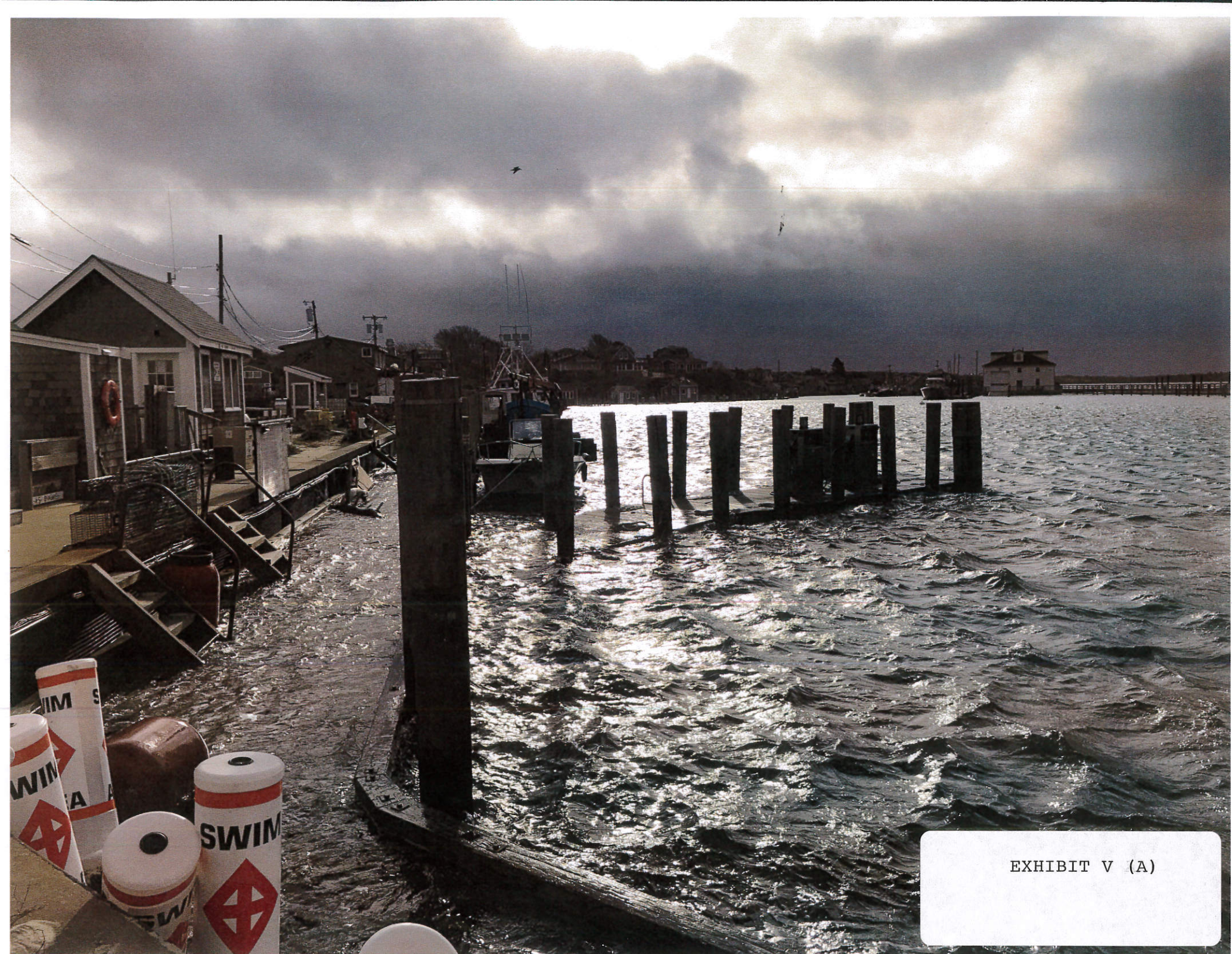


EXHIBIT V (A)



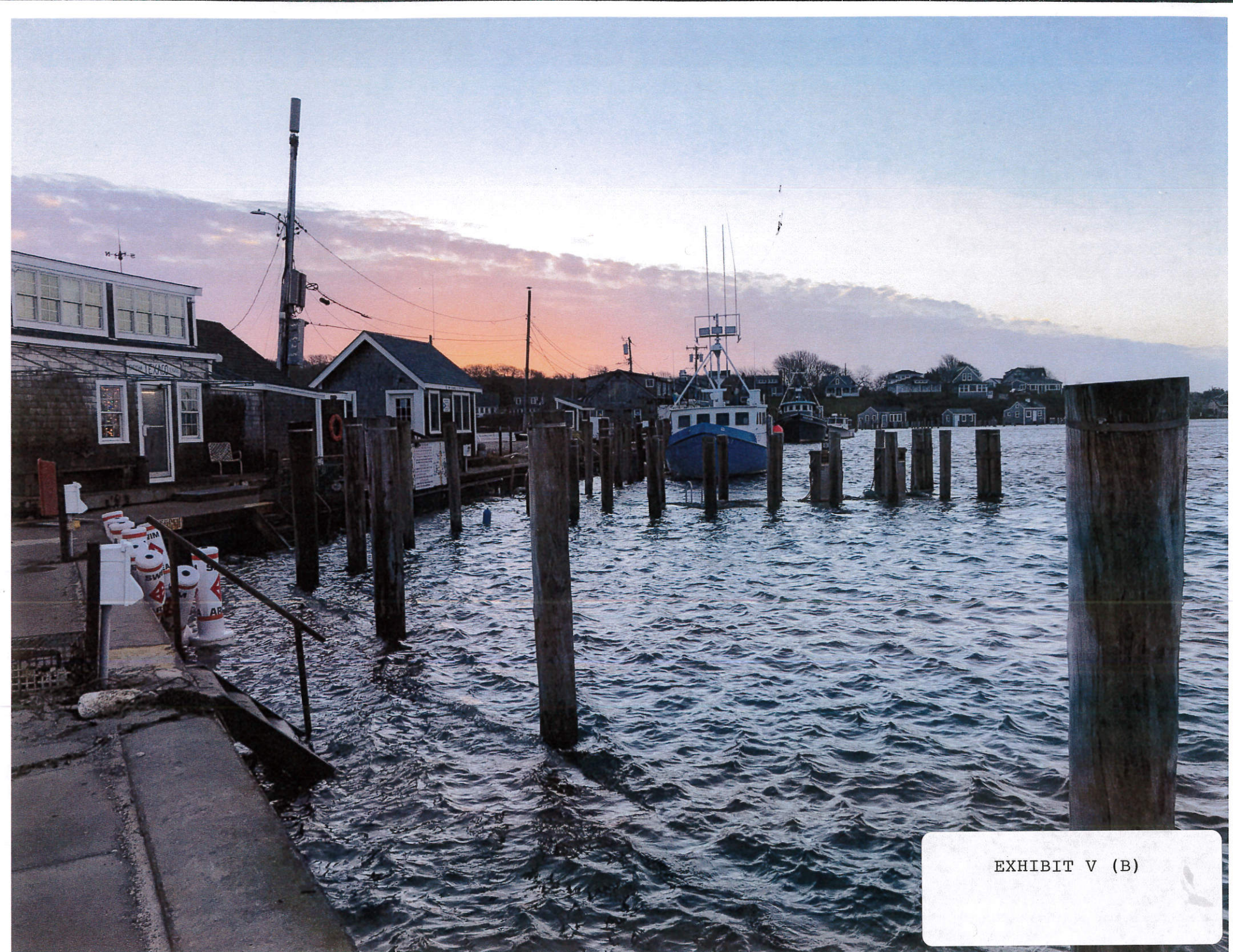


EXHIBIT V (B)



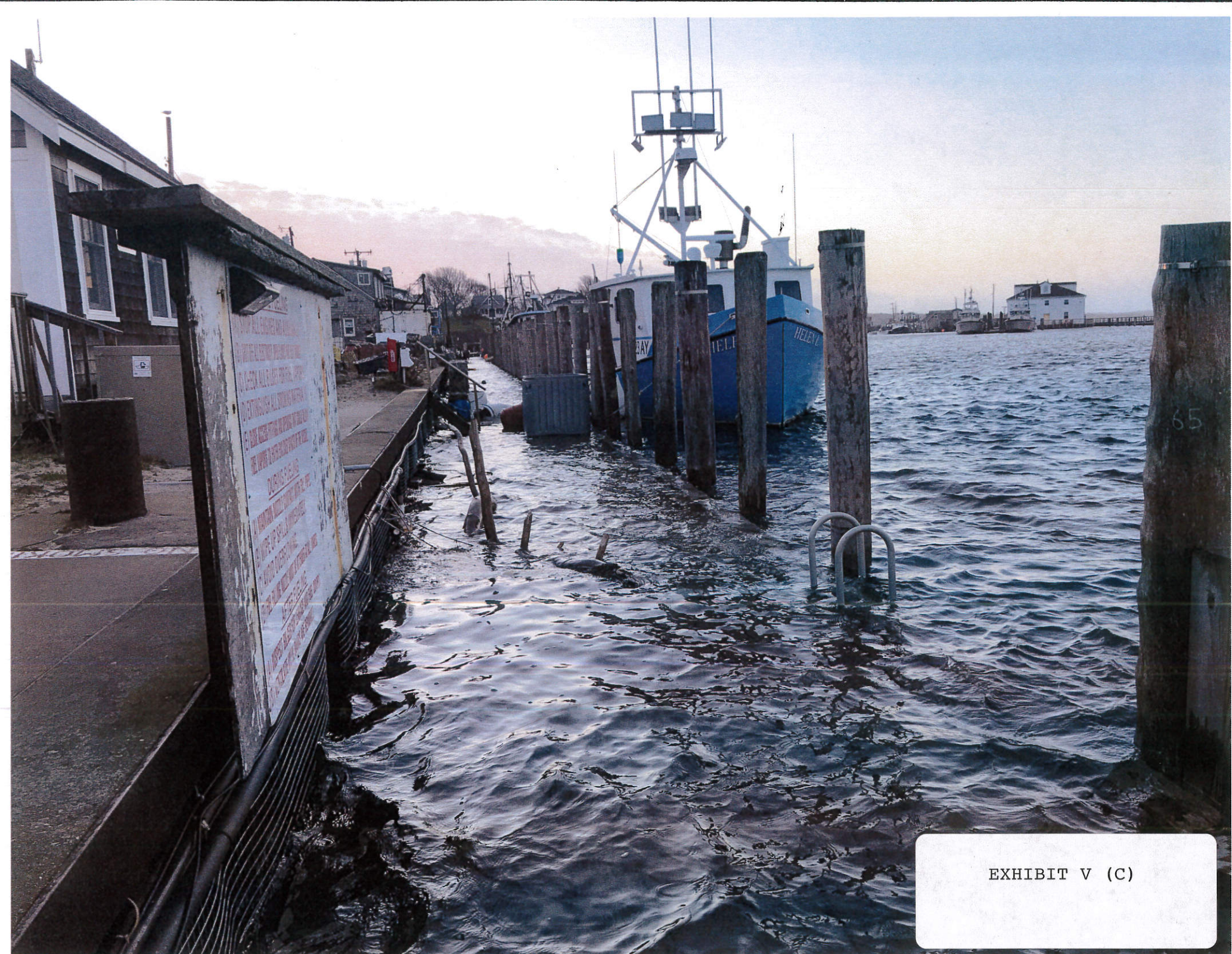


EXHIBIT V (C)





EXHIBIT V (D)



## Menemsha Coast Guard Boathouse Fire





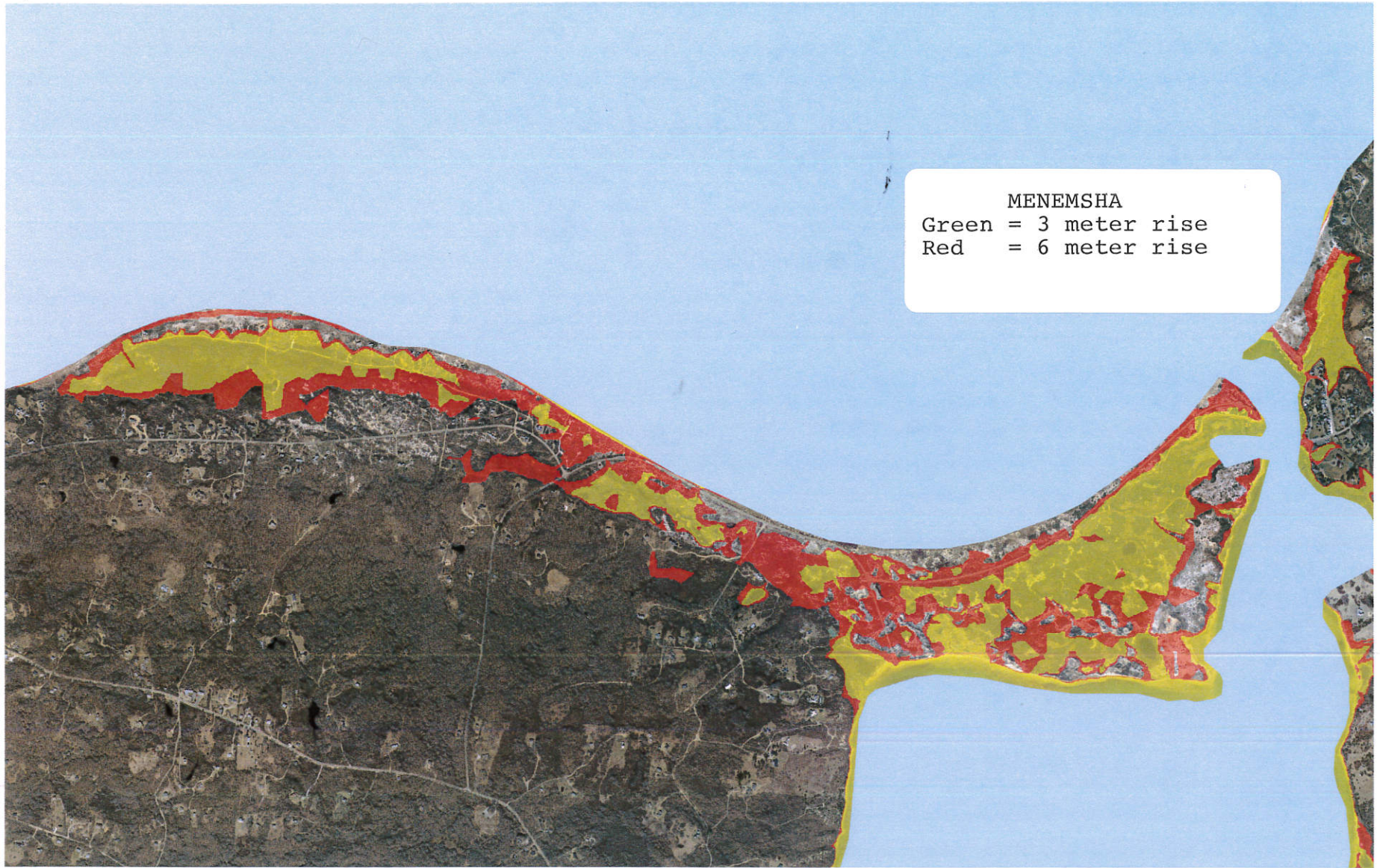


EXHIBIT VII