



# Vieques Restoration Advisory Board Meeting #46

September 15, 2015

# Reminders



- **Simultaneous translation is provided for this meeting. Headphones are available for your use.**
- **Additional information about the Vieques cleanup can be found at:**
  - **Vieques public website:  
[www.navfac.navy.mil/vieques](http://www.navfac.navy.mil/vieques)**
  - **Vieques Cleanup News flyers and newsletters**
  - **Vieques Restoration Program Facebook page  
([www.facebook.com/ViequesRestoration](http://www.facebook.com/ViequesRestoration))**

- **To enhance the effectiveness of meeting discussions, please remember:**

1. Speakers present information.
2. Audience hold questions/comments to end of each presentation.
3. Ensure everyone who has a question has opportunity to ask question or make comment
4. Agency representatives will also be available for additional questions or comments during the break or after the meeting.

# Agenda for Tonight's Meeting



6:00- 6:15	Welcome and Introductions	Dan Waddill/Navy
6:15 – 6:40	NOAA Marine Resources Study Update	David Whittall/NOAA
6:40 – 7:40	<p>Navy Project Status Update and Path Forward</p> <ul style="list-style-type: none"> <li>Underwater (UXO 16) Work Status Update                             <ul style="list-style-type: none"> <li>Expanded Site Inspection Adjacent to SWMU 4</li> <li>Wide Area Assessment</li> <li>Beach Dynamics</li> <li>Underwater Video of Killen (sunken ship in Bahia Salinas del Sur)</li> </ul> </li> <li>UXO 15 and UXO 16 Encrusted Munitions Non-Time-Critical Removal Action (NTCRA)</li> <li>SWMU 4 NTCRA Status Update</li> <li>Community Involvement Plan Status Update</li> <li>Status of Sites and Upcoming Activities</li> </ul>	<p>Byron Brant/Navy                      Dan Waddill/Navy                      Kevin Cloe/Navy                      Daniel Hood/Navy                      Madeline Rivera/Navy</p>
7:40 – 7:50	Break	
7:50 – 8:15	<p>Regulatory Agencies Update</p> <ul style="list-style-type: none"> <li>Report on Site Visit to Laguna Anones</li> </ul>	<p>USFWS                      PREQB                      EPA                      PRDNER</p>
8:15 – 8:30	Other Questions and Comments from the Public	Members of the Public

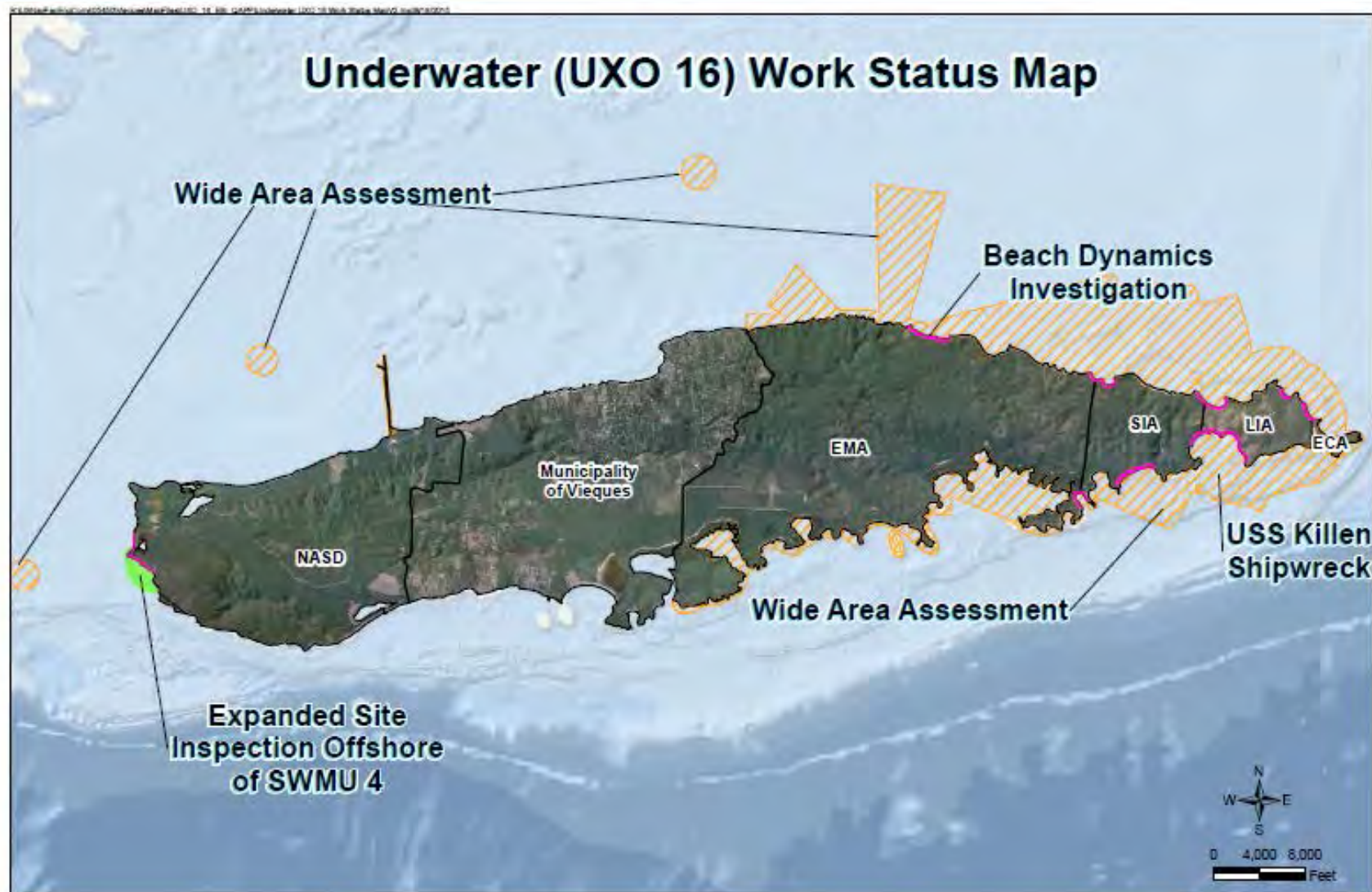
# NOAA MARINE RESOURCES STUDY UPDATE

**Navy Project Update**

# **UNDERWATER (UXO 16) WORK STATUS UPDATE**



# Underwater (UXO 16) Work Status





# Findings

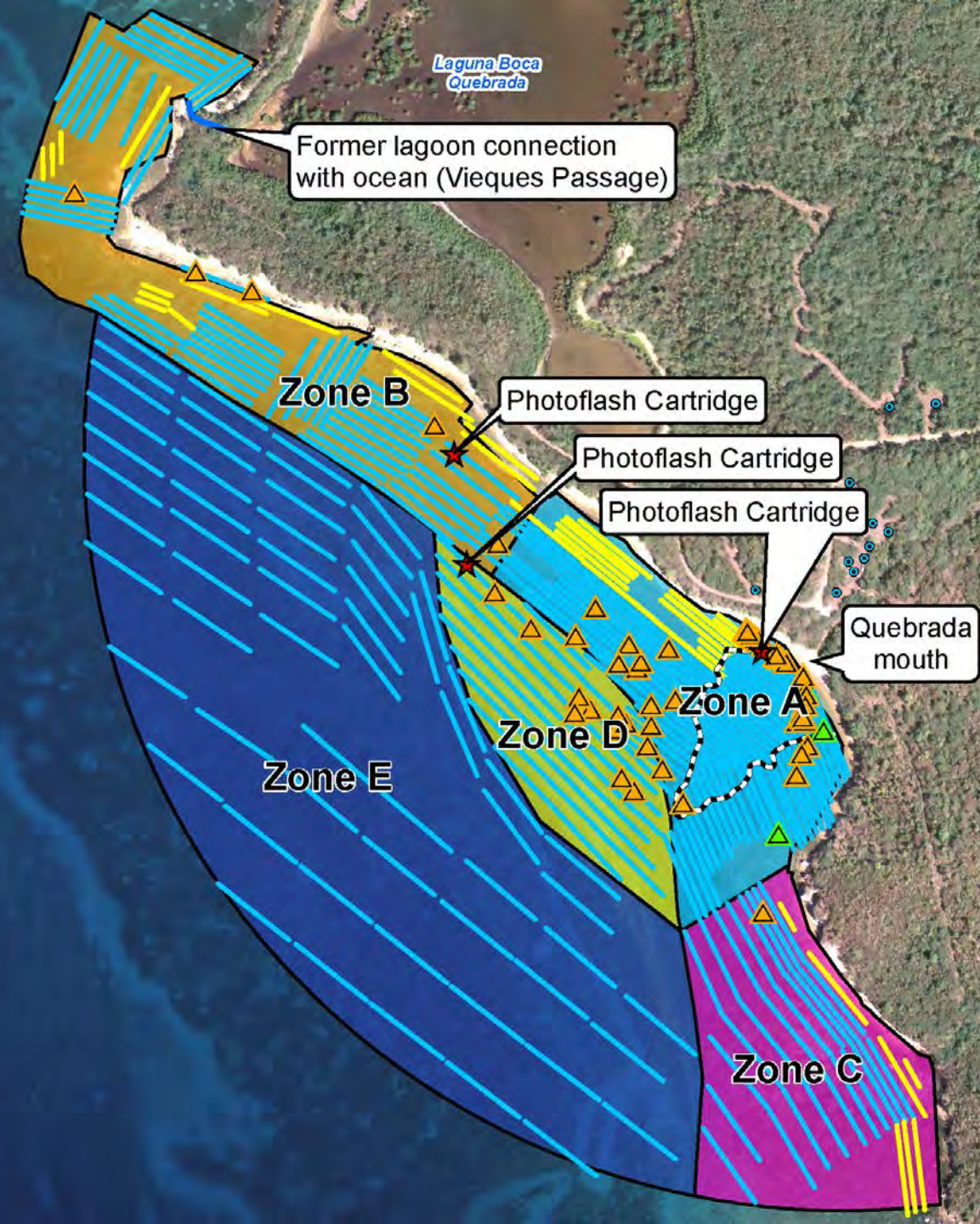
## 2015 ESI

**Munition Items = 3**  
(photoflash cartridges)

**Munitions Debris = 57**

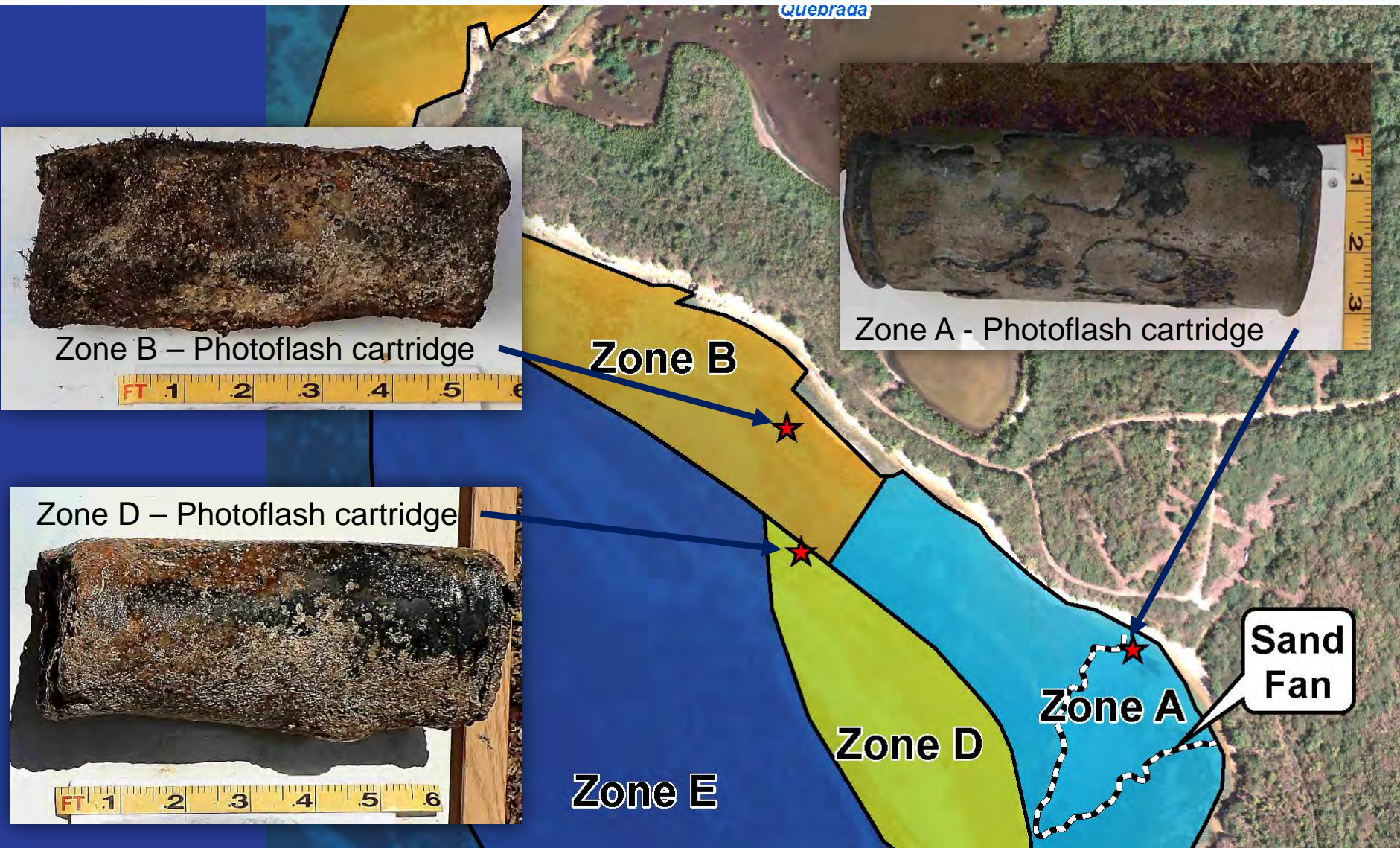
## 2012 SI

**Munition Items = 3**  
(20-mm projectile, photoflash cartridge, 40-mm flare base)



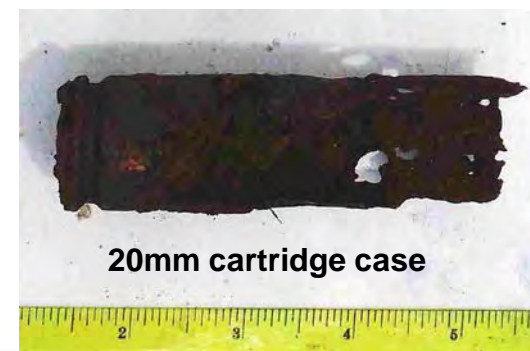
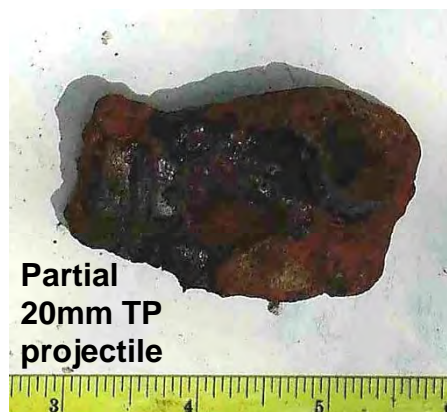
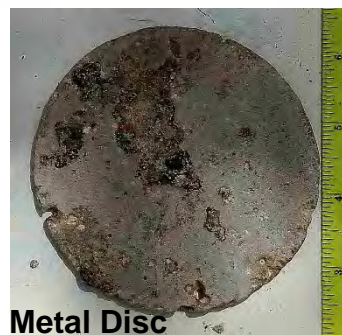


# Expanded Site Inspection: Recovered Discarded Military Munitions (DMM)





# Expanded Site Inspection: Examples of Recovered Munitions Debris





# Expanded Site Inspection: Encrusting is Prevalent and Can Disguise Items



# Beach Dynamics Study: Munitions Surrogates Tracking



## •61 Munitions Surrogates

- Designed to simulate common munitions found on Vieques
- Placed in near shore areas where currents and wave action are strongest

## •Tracked Monthly

- Each surrogate has specific ID, color code, and is equipped with acoustic transmitter (pinger)
- Tracked using:
  - Acoustic receiver (hydrophone)
  - Underwater viewing box
  - Remotely operated vehicle (ROV)
  - Global Positioning System (GPS)



# Munitions Surrogates



12 x 81-mm Mortar



16 x 2.75-in Rocket



15 x 5-inch Projectile



9 x MK 76 Practice Bomb



7 x MK 82 500-lb Bomb



2 x MK 118 Sub-munition

# Munitions Surrogates Deployment





# Munitions Surrogates Tracking



# Underwater Video of Killen

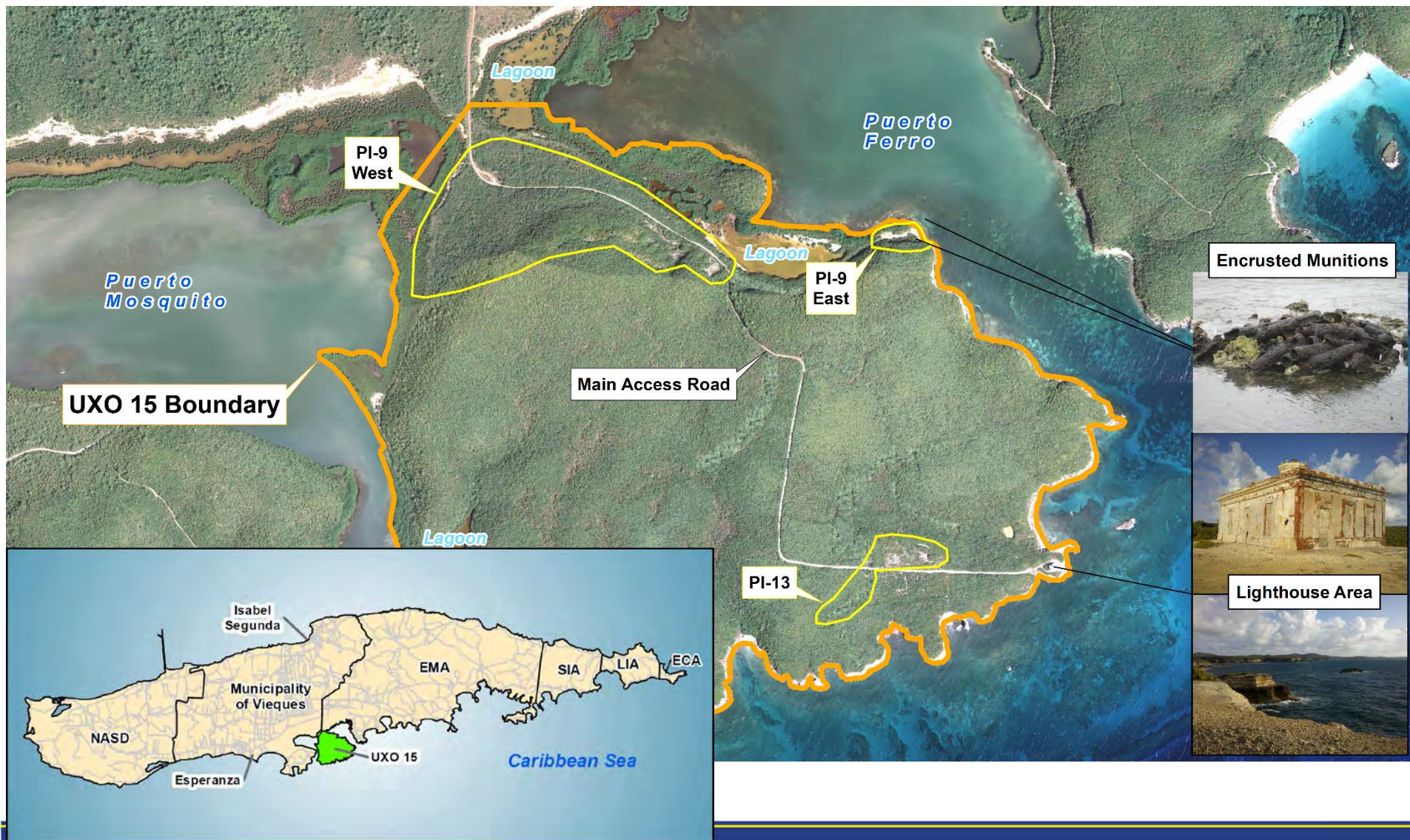




## **Navy Project Update**

**NON-TIME-CRITICAL REMOVAL ACTION (NTCRA)  
UXO 15 (PI 9 EAST) AND ADJACENT UXO 16  
ENCRUSTED MUNITIONS**

# UXO 15 (PI 9 East) and Adjacent UXO 16 Location and Site Features





# NTCRA Area



# NTCRA Scope and Status



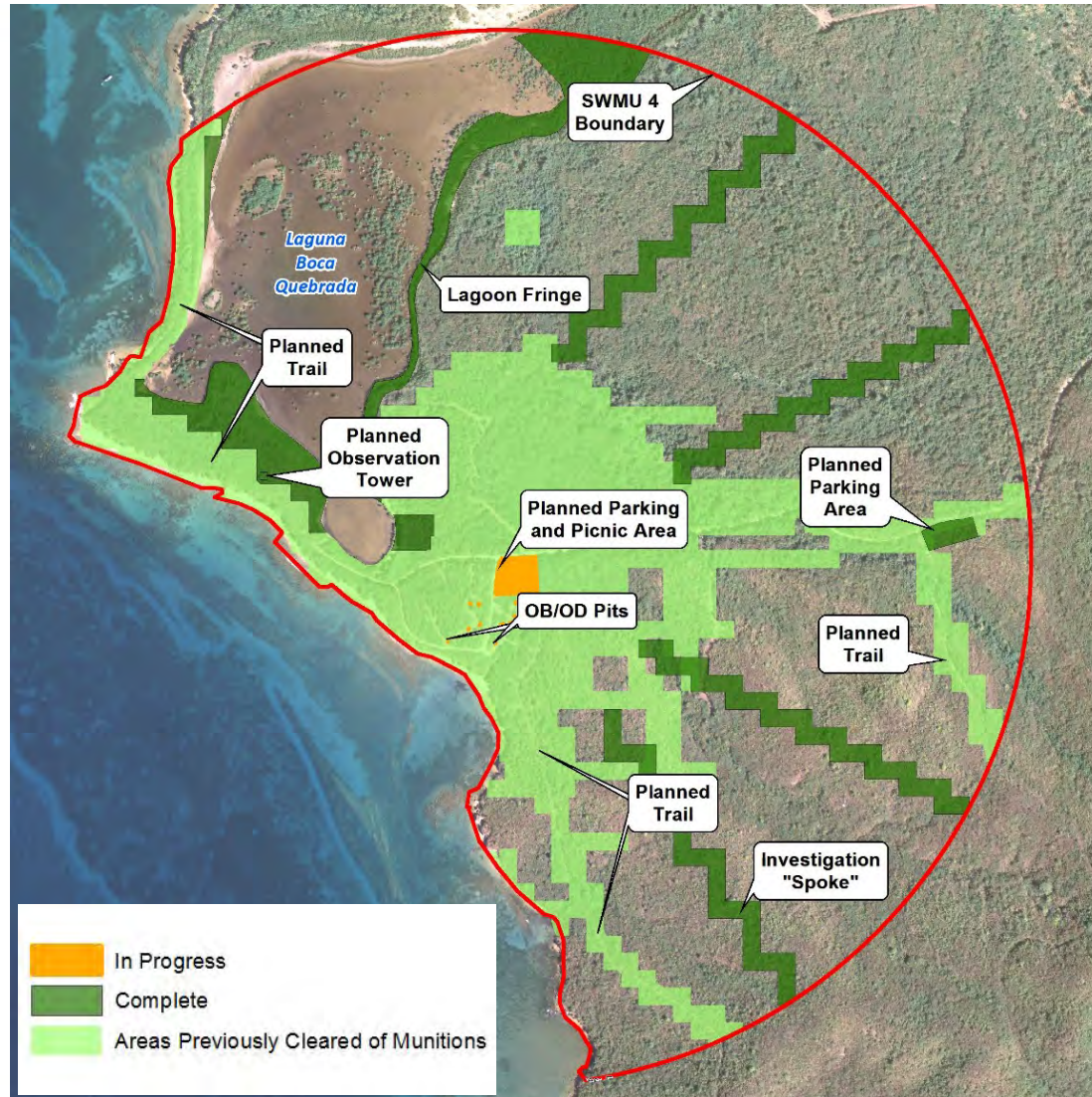
- NTCRA will address terrestrial and underwater areas where encrusted items have been identified
  - UXO 15 PI-9 East
    - 0.25-acre area
  - UXO 16
    - Small pile (0.06-acre area)
- Biological evaluation and associated protection measures will be implemented
- Engineering Evaluation/Cost Analysis (EE/CA) currently available for public review and comment
  - Review period August 3, 2015 to September 16, 2015



**Navy Project Update**

# **SWMU 4 NON-TIME CRITICAL INTERIM REMOVAL ACTION**

# Status of NTCRA





# SWMU 4 NTCRA Status Update



- **Digital Geophysical Mapping (DGM) survey to identify the location of buried metallic objects within planned parking, picnic, and observation tower areas**





# SWMU 4 NTCRA Status Update



- MEC Team conducting mag & dig operations at SWMU 4





# SWMU 4 NTCRA Status Update



- **Munitions Removal Operations**



Lagoon Perimeter



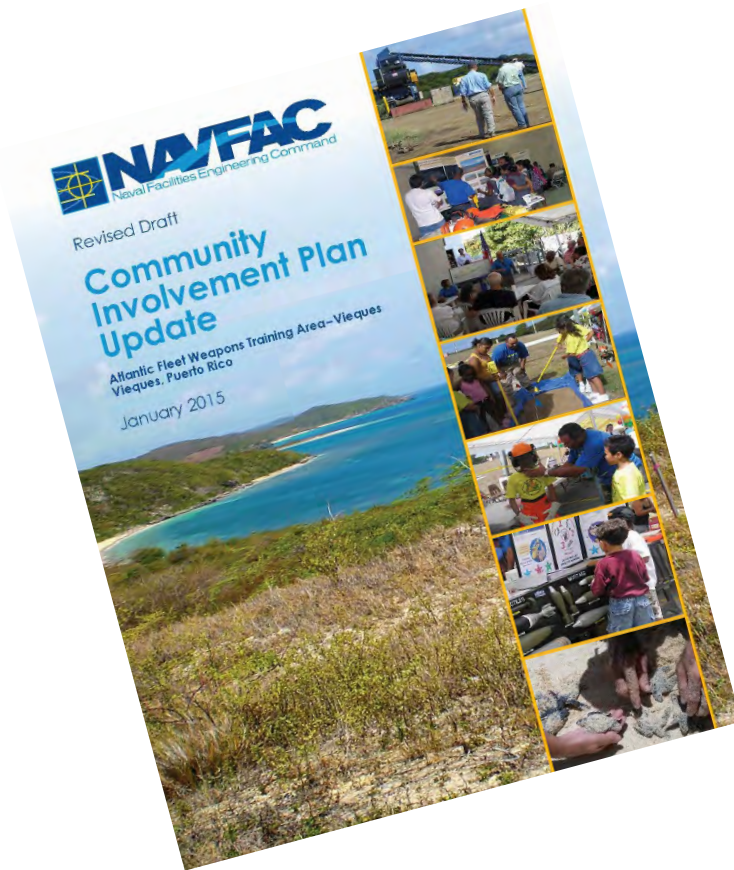
Parking, Picnic,  
Tower Areas



**Navy Project Update**

# **COMMUNITY INVOLVEMENT PLAN STATUS UPDATE**

# Community Involvement Plan Update



- The CIP Update was based on community input, including 88 interviews and 164 questionnaires
- The public comment period for the Draft Final Community Involvement Plan (CIP) began June 30, 2015 and ended August 14, 2015
- The Final CIP will be available in a few weeks on the Navy's and EPA's websites and in the Administrative Record



**Navy Project Update**

# **STATUS OF SITES AND UPCOMING ACTIVITIES**

# Status of Sites and Upcoming Activities at West Vieques



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## Planned Activities

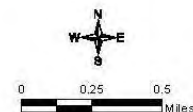
**SWMU 6:**  
Remedial Investigation Report Addendum  
Proposed Remedial Action Plan

**AOC E:**  
Remedy Implementation - Monitoring

**SWMU 4:**  
Munitions Removal Action  
Feasibility Study Addendum

**SWMU 4 Beach:**  
Beach Dynamics Investigation

**Underwater Areas:**  
Remedial Investigation Planning and Field Work



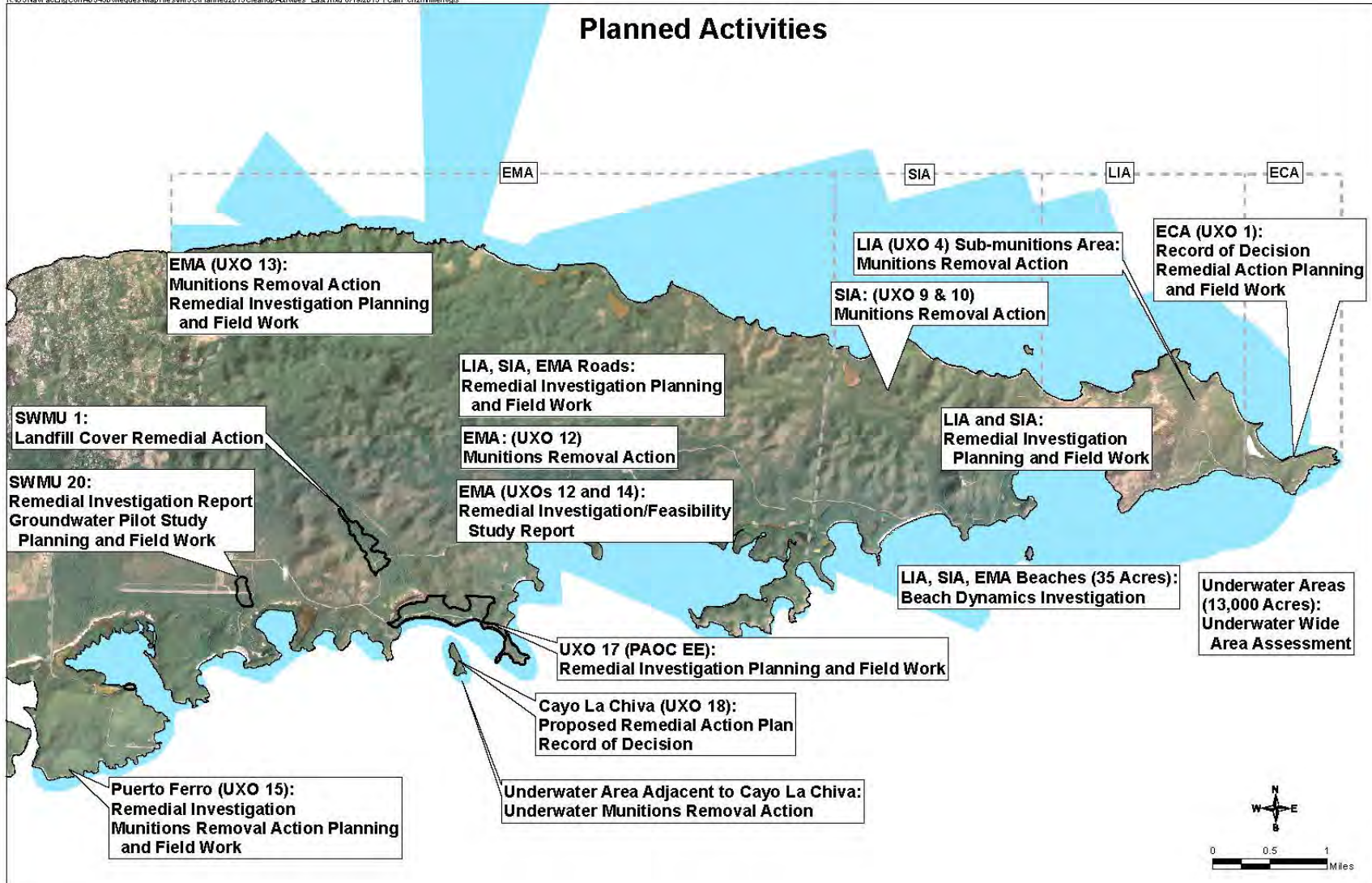


# Status of Sites and Upcoming Activities at East Vieques



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## Planned Activities



**EMA (UXO 13):**  
Munitions Removal Action  
Remedial Investigation Planning  
and Field Work

**SWMU 1:**  
Landfill Cover Remedial Action

**SWMU 20:**  
Remedial Investigation Report  
Groundwater Pilot Study  
Planning and Field Work

**LIA, SIA, EMA Roads:**  
Remedial Investigation Planning  
and Field Work

**EMA: (UXO 12)**  
Munitions Removal Action

**EMA (UXOs 12 and 14):**  
Remedial Investigation/Feasibility  
Study Report

**LIA (UXO 4) Sub-munitions Area:**  
Munitions Removal Action

**SIA: (UXO 9 & 10)**  
Munitions Removal Action

**ECA (UXO 1):**  
Record of Decision  
Remedial Action Planning  
and Field Work

**LIA and SIA:**  
Remedial Investigation  
Planning and Field Work

**LIA, SIA, EMA Beaches (35 Acres):**  
Beach Dynamics Investigation

**Underwater Areas  
(13,000 Acres):**  
Underwater Wide  
Area Assessment

**UXO 17 (PAOC EE):**  
Remedial Investigation Planning and Field Work

**Cayo La Chiva (UXO 18):**  
Proposed Remedial Action Plan  
Record of Decision

**Underwater Area Adjacent to Cayo La Chiva:**  
Underwater Munitions Removal Action

**Puerto Ferro (UXO 15):**  
Remedial Investigation  
Munitions Removal Action Planning  
and Field Work

**Regulatory Agency Updates**

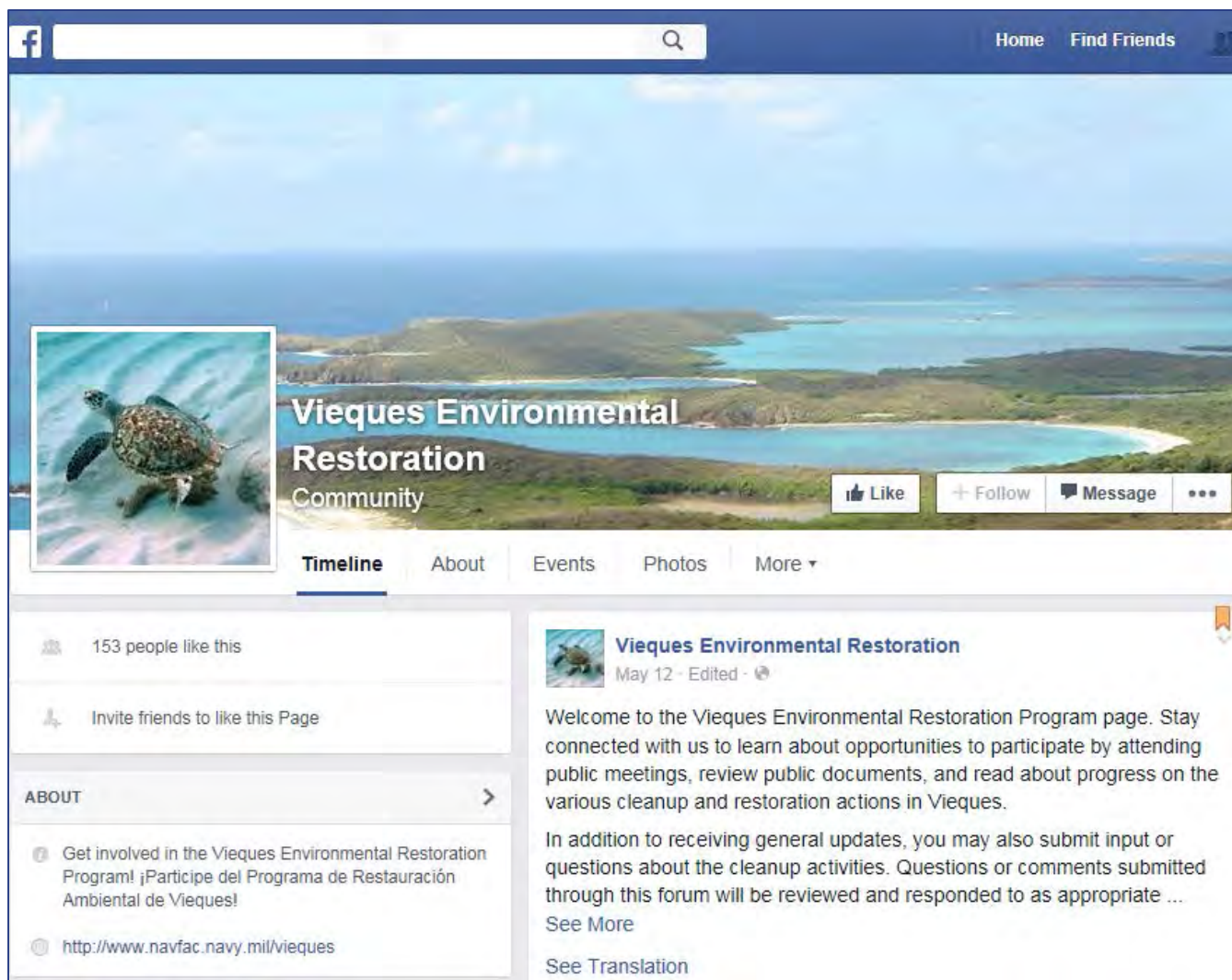
# **REGULATORY AGENCIES**



- **U.S. Fish and Wildlife Service**
- **Puerto Rico Environmental Quality Board**
- **Environmental Protection Agency**
- **Puerto Rico Department of Natural and Environmental Resources**

# Vieques Restoration Program Facebook Page

[www.facebook.com/ViequesRestoration](http://www.facebook.com/ViequesRestoration)



This is a screenshot of the Facebook page for the Vieques Environmental Restoration Community. The page header includes the Facebook logo, a search bar, and navigation links for Home and Find Friends. The main cover image shows a scenic view of a tropical coastline with turquoise water and green hills. A profile picture of a sea turtle is positioned on the left side of the cover. The page name "Vieques Environmental Restoration Community" is displayed in the center of the cover, with "Like", "Follow", and "Message" buttons to its right. Below the cover, there are tabs for Timeline, About, Events, Photos, and More. On the left sidebar, it shows that 153 people like the page and provides a link to invite friends. The "ABOUT" section includes a description of the program in both English and Spanish, a website URL (http://www.navfac.navy.mil/vieques), and a "See Translation" link. The main content area features a post from May 12, which is a welcome message and a "See More" link.

**Vieques Environmental Restoration Community**

Like Follow Message

Timeline About Events Photos More

153 people like this

Invite friends to like this Page

**ABOUT**

Get involved in the Vieques Environmental Restoration Program! ¡Participe del Programa de Restauración Ambiental de Vieques!

<http://www.navfac.navy.mil/vieques>

**Vieques Environmental Restoration**  
May 12 · Edited ·

Welcome to the Vieques Environmental Restoration Program page. Stay connected with us to learn about opportunities to participate by attending public meetings, review public documents, and read about progress on the various cleanup and restoration actions in Vieques.

In addition to receiving general updates, you may also submit input or questions about the cleanup activities. Questions or comments submitted through this forum will be reviewed and responded to as appropriate ...

[See More](#)

[See Translation](#)



# Vieques Administrative Record Documents Available



## Did you know?

A screenshot of the NAVFAC Environmental Administrative Record Search web application. The interface includes a search bar, a table of records, and a sidebar with navigation links. The table lists records with columns for Record Number, Type, Name, Date, and Title. The records shown are related to Vieques cleanup and restoration activities.

Record Number	Type	Name	Date	Title
00038	PUBLIC NOTICE	BAKER	01/10/2011	REQUEST FOR INFORMATION REGARDING COMMUNITY ACTIVITIES, LITIGATION AND REMEDIATION REQUESTS, AND PUBLIC NOTICE
00039	REPORT	BAKER	01/10/2011	FINAL SITE MANAGEMENT PLAN FISCAL YEAR 2011 ATLANTIC FLEET WEAPONS TRAINING AREA REQUEST ISLAND PUBLIC NOTICE
00040	CORRESPONDENCE	BAKER	01/10/2011	TRANSMITTAL LETTER REQUESTING THE FINAL SITE MANAGEMENT PLAN FISCAL YEAR 2011 ATLANTIC FLEET WEAPONS TRAINING AREA REQUEST ISLAND PUBLIC NOTICE
00041	PUBLIC NOTICE	BAKER	01/10/2011	PUBLIC NOTICE WITH PUBLIC COMMENTS ON THE ENGINEERING EVALUATION AND COST ANALYSIS FOR A LONG TERM CRITICAL INFRASTRUCTURE ACTION AT ATLANTIC FLEET WEAPONS TRAINING AREA REQUEST ISLAND PUBLIC NOTICE

*The Vieques Administrative Record contains all the public documents related to Vieques cleanup and restoration activities.*

**Get informed and share!**

**[www.navfac.navy.mil/vieques](http://www.navfac.navy.mil/vieques)**



- **Comments or Questions?**
- **Next Meeting Date**
- **If interested in becoming a Vieques Restoration Advisory Board member, contact Madeline Rivera, Navy Vieques Site Manager**
  - Phone: 787-741-4792
  - Email: [madeline.rivera@navy.mil](mailto:madeline.rivera@navy.mil)