



Munitions Underwater Investigations Status

RAB Meeting

March 13, 2012

Areas of Underwater Investigations



NAFPROOTE:Prof:010251:Figures:Figures:Form: VNTR: new:Figure 1-2 - Sites to be assessed under CERCLA.mxd

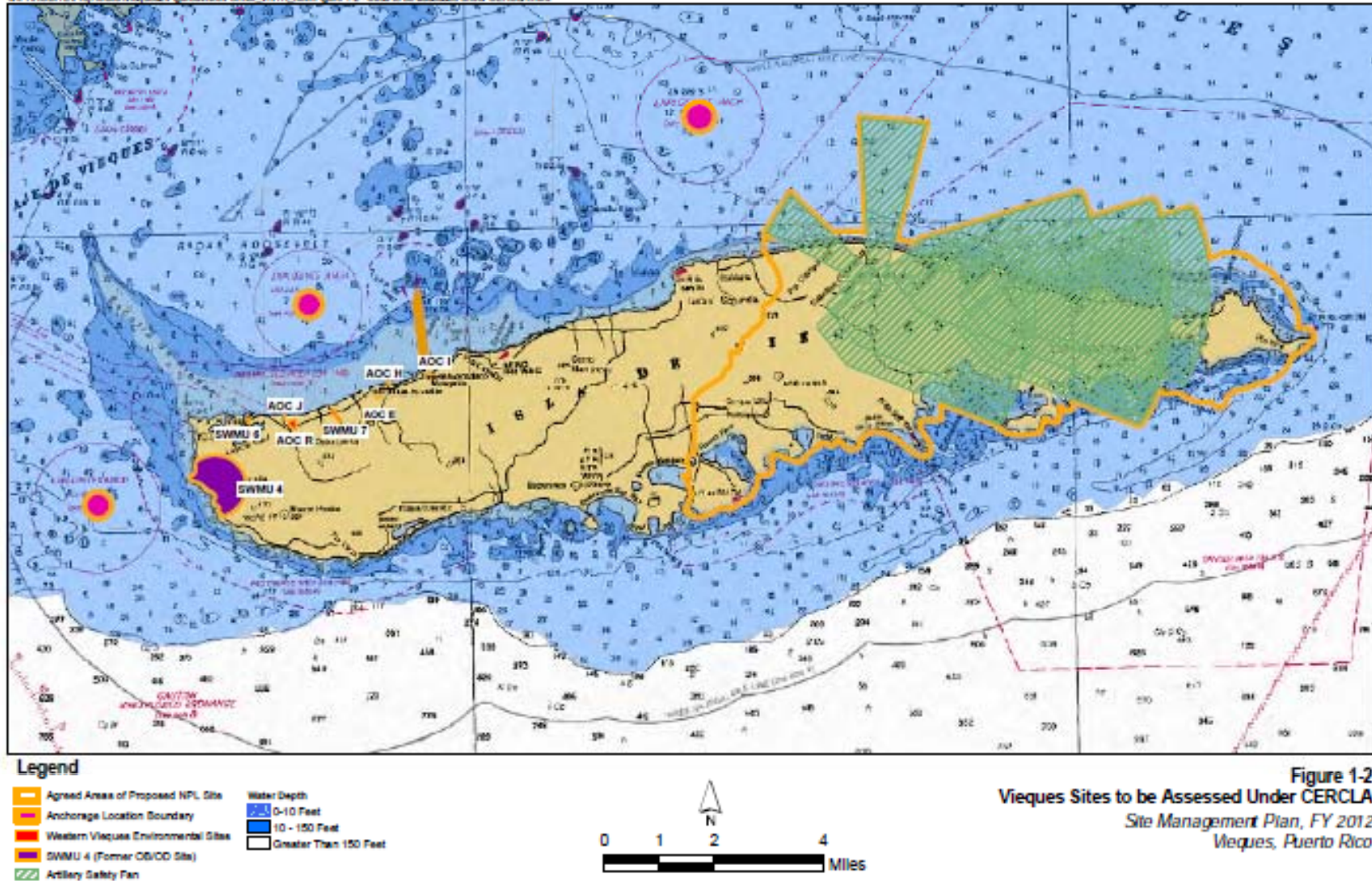
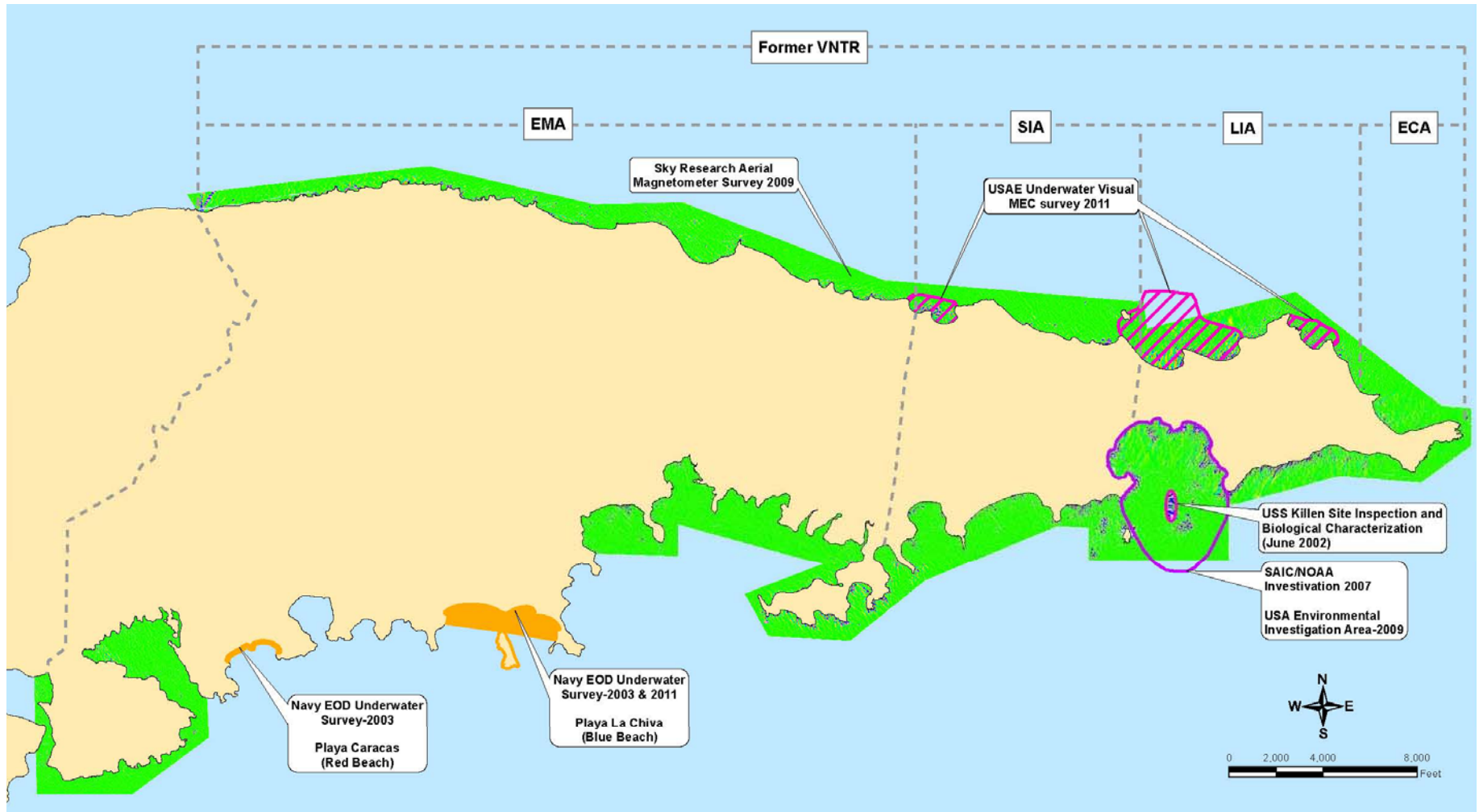


Figure 1-2
Vieques Sites to be Assessed Under CERCLA
Site Management Plan, FY 2012
Vieques, Puerto Rico

Previous Underwater Investigations



Summary of Previous Underwater Investigations



- 2003 - Navy EOD Underwater Visual Survey of Blue /Red Beaches (to 5 ft. depth)
- 2007- NOAA conducted side scan sonar surveys with visual validation by UXO divers.
- 2007- SAIC completed towed magnetometer survey
- 2009- Sky Research conducted aerial magnetometer survey of near shore waters in LIA, ECA, SIA and EMA.
- 2009- USAE completed remote operated vehicle (ROV) video survey.
- 2011- USAE completed underwater MEC surveys around Bahia Icacos, Puerto Diablo, Playa Brava and Bahia Salinas
- 2011 Navy EOD underwater visual surveys of Cayo La Chiva, Purple Beach and near UXO-15



Sky Research Aerial Magnetometer



SAIC Magnetometer



USA ROV



NOAA Side Scan Sonar

Underwater Munitions Work Planned for 2012



- **Waterway Barrier Installation**
 - Biological Assessment currently under review
 - Draft Barrier Installation Work Plan being prepared
 - Barrier installation anticipated during late summer
- **Island Wide Biological Assessment**
 - Desktop study to identify endangered species locations and potential impacts from munitions investigations
 - Work plan currently under review
 - BA Report anticipated to be completed in late 2012
- **Site Inspection of selected locations potentially containing munitions**
 - SWMU 4 area (West Vieques) and mooring locations to be inspected
- **Explosives Safety Submission**
 - Identifies procedures to address potential exposure to munitions

Underwater Munitions Work Planned for 2013



- **Underwater Munitions Wide Area Assessment**
 - Underwater geophysical methods used to provide preliminary assessment of munitions extent
 - Work Plan to be prepared during first half of 2013
 - Field work /report to developed by end of 2013
- **Site Inspection of Selected Munitions locations**
 - Locations to be inspected will be based on results of Biological Assessment and Wide Area assessment
 - Various methods will be used to inspect the types and locations of munitions to assess explosive safety hazard

Future Underwater Munitions Work



- **Potential CERCLA Activities**
 - Remedial Investigation
 - Feasibility Study
 - Proposed Remedial Action Plan
 - Record of Decision
 - Remedial Actions
- **Locations of CERCLA activities will depend on the results of investigations**
- **Duration of the cleanup process will depend on actual site conditions**