

Restoration Advisory Board (RAB) Meeting

Former Naval Station Roosevelt Roads
Naguabo, Puerto Rico

June 14, 2007





Tonight's Agenda

Welcome and Introductions

Mark Davidson, Navy Co-Chair

- Action Items and News

RAB comments on the Covenant Deferral Request

Jeff Meyers, Navy BRAC Environmental Coordinator

- Parcel 52
- Tow Way Fuel Farm
- Landfills

Break (7:10 – 7:20 pm)

Update on UXO work on Piñeros Island

Mark Davidson

Public comments and questions
(Please wait until this time for issues not on the agenda.)

RAB members and visitors

Planning next meeting and closing

Susana Struve



Action Items from last RAB meeting

Action Item	Status
Navy: Revise the CDR to clarify areas with NFA status that should be zoned for NO residential land use	
Navy: Confirm that there is no UXO present in the waters off Los Machos beach	
Navy: Evaluate environmental concerns of sunken barge in Puerca Bay	



Action Items (continued)

Action Item	Status
Navy: Advertise public notices on radio station WMDD 1480	Done (for CDR comment extensions and RAB meeting)
RAB members: Provide written comments on the Covenant Deferral Request (CDR)	Done (comment period extended twice)
RAB members: Prepare for development of Roosevelt Roads RAB charter	Ongoing
Other: Land Reuse Plan	
Other: Technical Assistance	



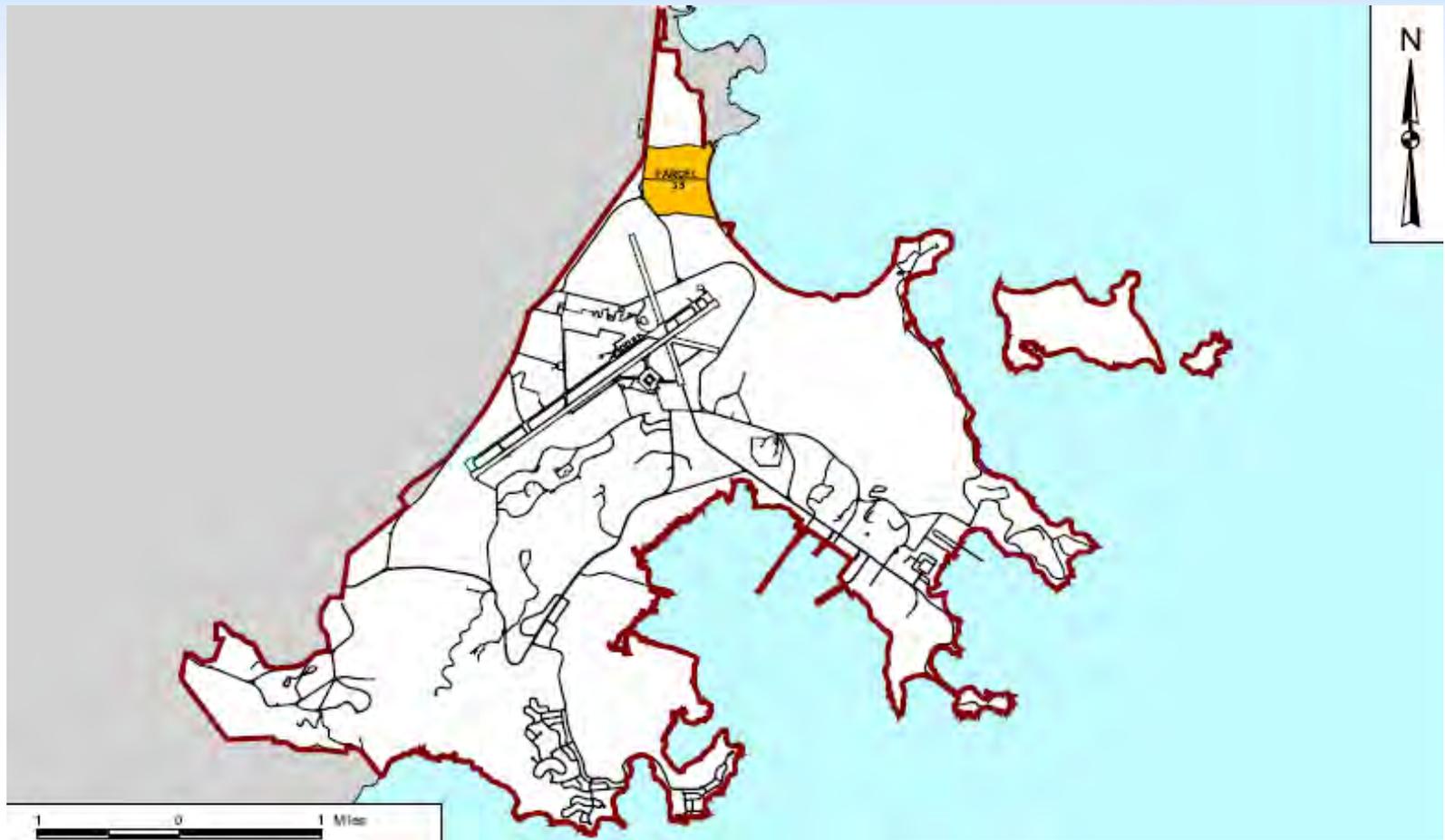
News

- **Public Comment Period on the Covenant Deferral Request (CDR) ended on June 10, 2007**
 - RAB comments received, being reviewed
 - Principal concerns to be discussed this evening
- **Los Machos Beach Parcel 3 transferred to Municipality of Ceiba on April 24, 2007**
- **Draft Finding of Suitability for Transfer (FOST) for Conservation Parcel submitted to EQB on May 11, 2007**
- **Draft FOST for Hospital Parcel submitted to EQB on May 14, 2007**

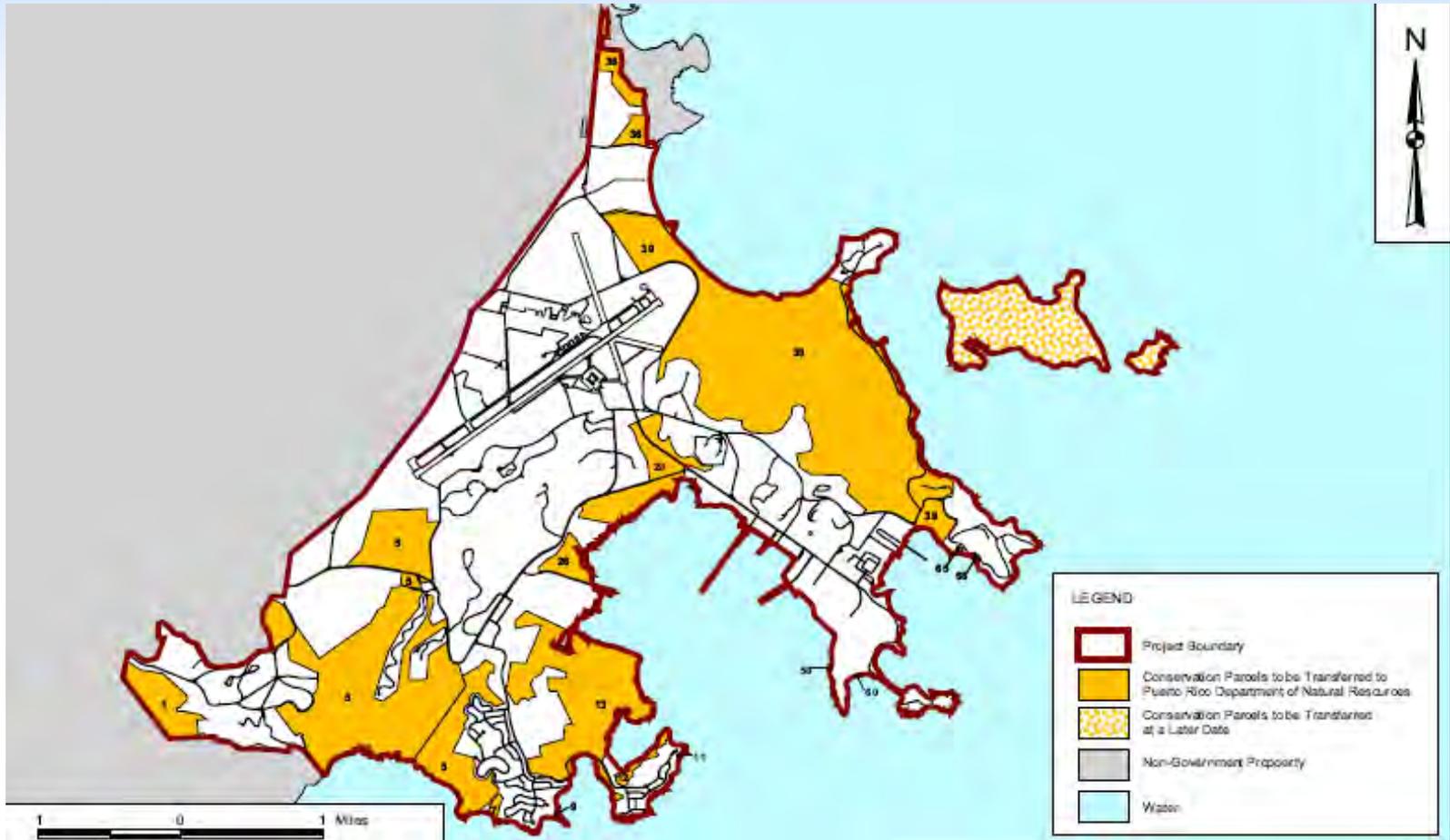




Los Machos 3 Parcel



Conservation Parcel





Hospital Parcel



RAB comments on the Covenant Deferral Request (CDR)

Jeff Meyers

Navy BRAC Environmental Coordinator

June 14, 2007





Overview

- **Public comment period began March 25, 2007**
 - Originally for 30 days
 - Deadline extended twice, at request of the RAB
 - *For 45 more days (total of 2.5 months)*
- **Several comments received from the public, including the RAB**



What happens next?

- **Respond to all public comments**
 - “Responsiveness Summary” attachment to CDR
- **CDR will be sent to Governor with request for covenant deferral**
 - With copies of all comments and responses
- **Covenant deferral allows Navy to legally transfer properties before cleanup is completed**
 - Early transfer is not allowed if contamination may put people or the environment at risk
 - *Land use controls will be used as needed to prevent exposure*



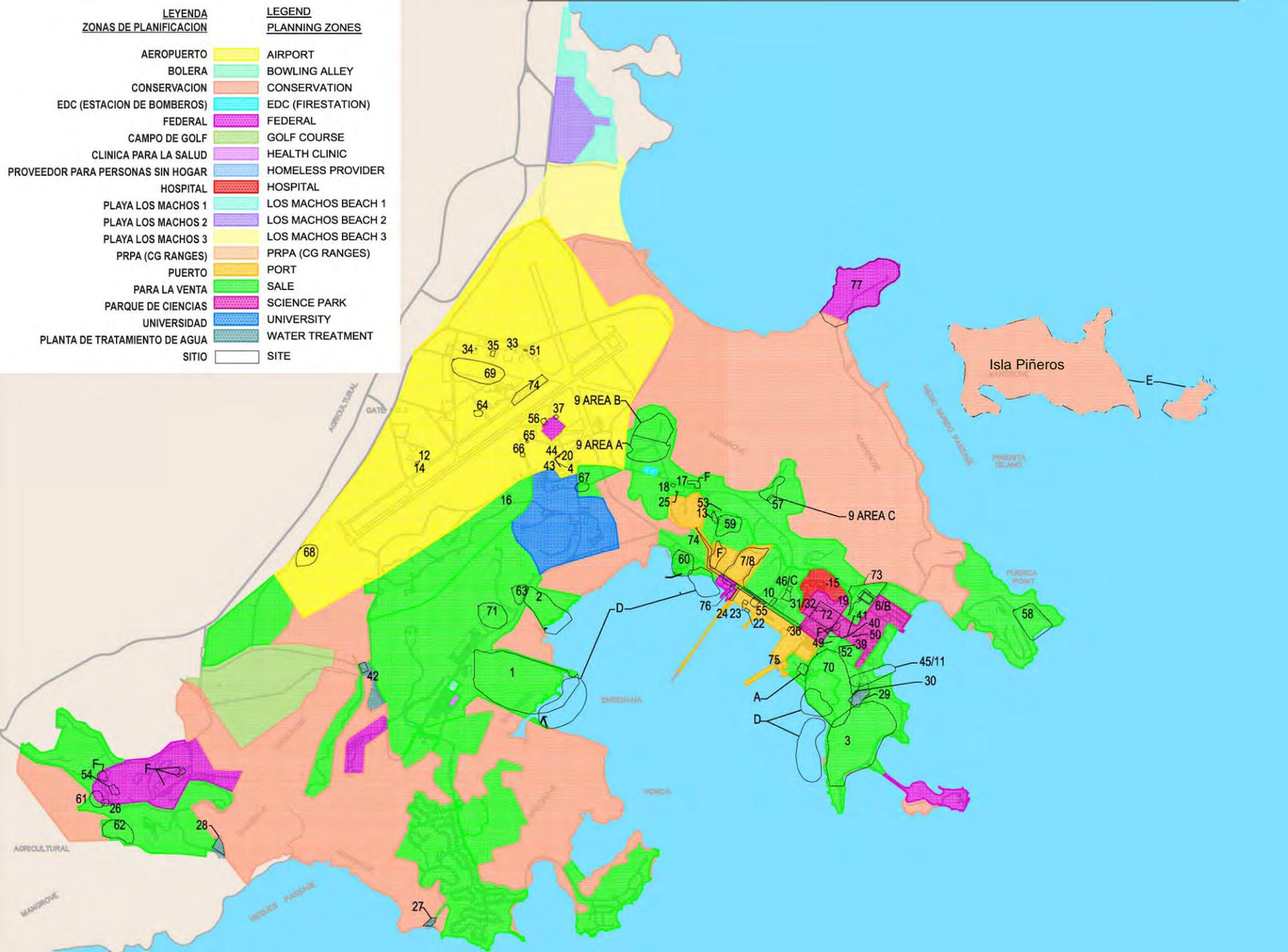
LEYENDA

ZONAS DE PLANIFICACION

LEGEND

PLANNING ZONES

AEROPUERTO		AIRPORT
BOLERA		BOWLING ALLEY
CONSERVACION		CONSERVATION
EDC (ESTACION DE BOMBEROS)		EDC (FIRESTATION)
FEDERAL		FEDERAL
CAMPO DE GOLF		GOLF COURSE
CLINICA PARA LA SALUD		HEALTH CLINIC
PROVEEDOR PARA PERSONAS SIN HOGAR		HOMELESS PROVIDER
HOSPITAL		HOSPITAL
PLAYA LOS MACHOS 1		LOS MACHOS BEACH 1
PLAYA LOS MACHOS 2		LOS MACHOS BEACH 2
PLAYA LOS MACHOS 3		LOS MACHOS BEACH 3
PRPA (CG RANGES)		PRPA (CG RANGES)
PUERTO		PORT
PARA LA VENTA		SALE
PARQUE DE CIENCIAS		SCIENCE PARK
UNIVERSIDAD		UNIVERSITY
PLANTA DE TRATAMIENTO DE AGUA		WATER TREATMENT
SITIO		SITE



After covenant deferral

- **Investigations and cleanup will continue after transfer**
 - Allows redevelopment to begin while cleanup is completed
 - At some sites, Navy will either perform or pay for cleanup
 - At other sites, the new owners will do it
 - *Sites on parcels sold to private parties*
 - *Third parties must enter into legal agreement with EPA to complete the cleanup*
 - *Reduced price because cleanup is needed*



The CDR does NOT

- **Relieve Navy of the ultimate responsibility for cleanup**
 - EPA must accept the final response for each site in the RCRA § 7003 Administrative Order on Consent
 - Sale is not complete unless new owners sign agreement with EPA
 - If new owners do not complete cleanup, EPA can require Navy to do so
- **Make any final decisions about cleanup for any of the sites**
 - Public will continue to be involved in the cleanup decision-making process
 - *as required by law*

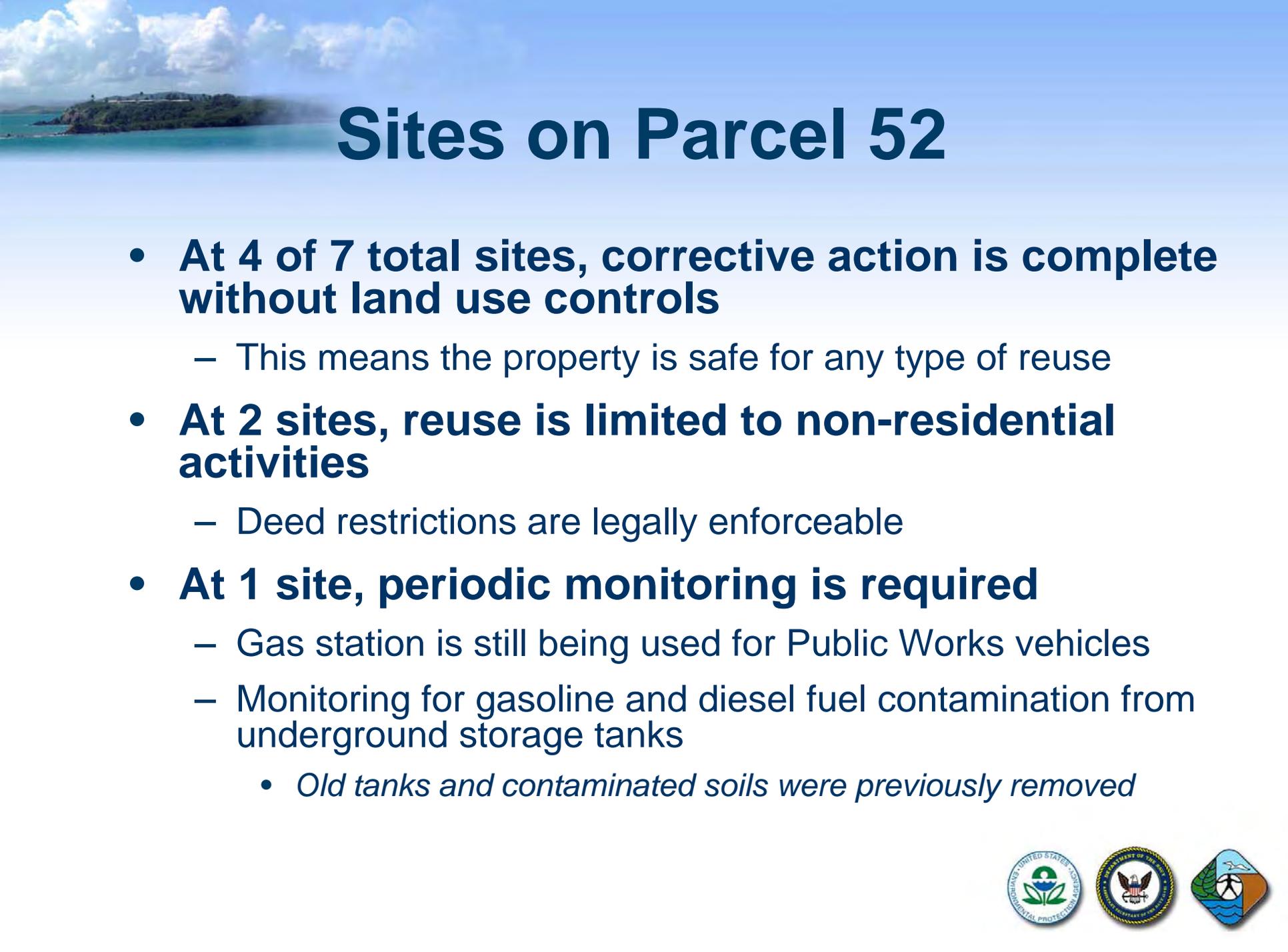




Main sites of concern to RAB

- **Parcel 52**
- **Tow Way Fuel Farm**
- **Landfills**
- **Piñeros Island**
 - Included with Isla Cabeza de Perro in Area of Concern (AOC) E
 - *Status report on Piñeros Island investigations later tonight*





Sites on Parcel 52

- **At 4 of 7 total sites, corrective action is complete without land use controls**
 - This means the property is safe for any type of reuse
- **At 2 sites, reuse is limited to non-residential activities**
 - Deed restrictions are legally enforceable
- **At 1 site, periodic monitoring is required**
 - Gas station is still being used for Public Works vehicles
 - Monitoring for gasoline and diesel fuel contamination from underground storage tanks
 - *Old tanks and contaminated soils were previously removed*





Parcel 52 (continued)

- **Consistent with the approved Reuse Plan**
 - Designates the area as a Science Park (non-residential land use)
 - Levels of contamination are not a threat to industrial or construction workers





Tow Way Fuel Farm

- **Corrective Measures Study (CMS) Final Report has been completed and approved by EPA**
 - Monthly gauging and removal of petroleum products from the groundwater continues
- **Implementation of the corrective measure will be conducted by new land owner**
 - CMS included a health risk assessment to ensure the remedy will protect people working on the site in future (industrial use)





Solid Waste Landfill

- **Navy has developed a landfill closure plan, approved by EPA and EQB**
 - 85 acre solid-waste landfill
 - SWMU 3 (Solid Waste Management Unit #3)
- **Landfill will be closed in accordance with EPA and EQB regulations**
- **A surface cap (clean soil cover) will be installed over the entire portion of the landfill**
 - Ensures that people will not be directly exposed to wastes, including asbestos





Solid Waste Landfill (continued)

- **Long-term monitoring will be conducted**
 - Groundwater quality, contents of gases that are vented
 - Ensures there are no unacceptable risks to human health or the environment after landfill is closed
- **Land use controls and deed restrictions will ensure proper long-term management**
- **Approved closure plan is available for public review**
 - Ceiba public library
 - EPA and EQB offices
 - Website administrative record





Other landfills

- **Army Cremator Disposal Site (SWMU 1)**
 - Baseline Ecological Risk Assessment is being conducted by the Navy
 - Human health risks will be addressed by a Corrective Measures Study (CMS)
- **Langley Drive Disposal Site (SWMU 2)**
 - Baseline Ecological Risk Assessment being conducted by the Navy
 - Human health risks will be addressed by CMS

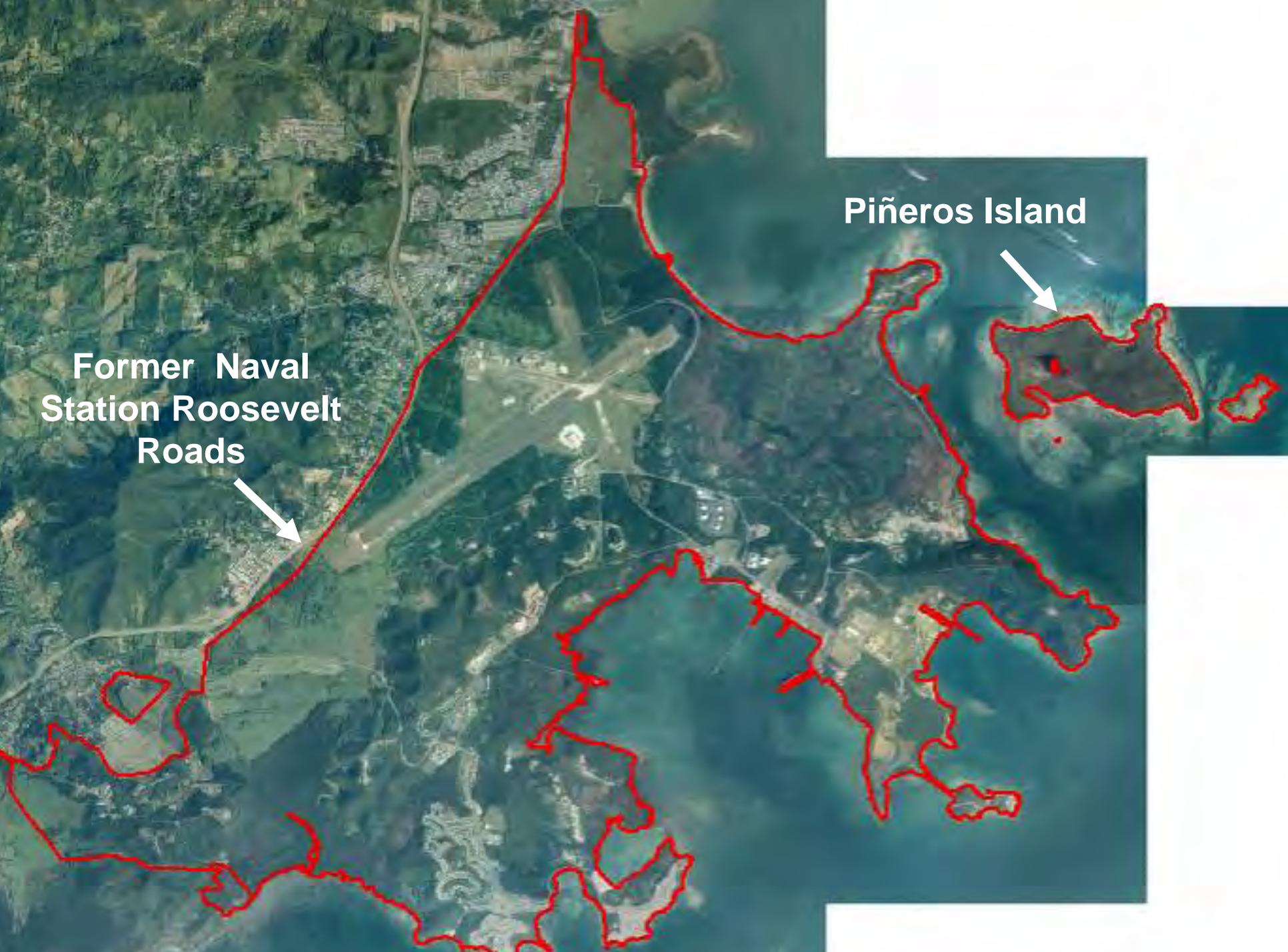


Unexploded Ordnance Work on Piñeros Island

Mark Davidson, RAB Co-Chair

June 14, 2007





**Former Naval
Station Roosevelt
Roads**



Piñeros Island





Background

- **Located 0.5 miles east of Roosevelt Roads**
- **310 acres**
- **Acquired in 1942 by United States**
- **British built a bunker, roads, gun emplacements during World War II**



Investigation Objectives

- **Perform a Phase I RCRA Facilities Investigation (RFI)**
- **Generate field data to determine if further munitions response actions are required**
 - Phase I: Magnetometer investigation to identify and map locations of potential munitions
 - *Buried objects identified by magnetometer are called “anomalies”*
 - *Could be any kind of metal object*
 - Phase II: Investigate anomalies
 - *Excavate and inspect them*
 - *Are they munitions or other objects?*



Investigation Objectives (cont.)

- **Focus the investigation on:**
 - Areas potentially accessible to the public under anticipated future land uses
 - Areas currently used
 - *Trespassers (land crabbers)*
 - Any areas identified where munitions use was concentrated



Step 1: Record Search

- **Archival records search to determine:**
 - What types of military activities were conducted?
 - What types of munitions were used?
 - Where were munitions and explosives of concern (MEC) used?





Results of Records Search

- **Late 1950s: training Special Forces and Explosive Ordnance Disposal**
 - Unique tropical, maritime environment
 - 300 men per year
 - Beach landings
 - Sea to land gunfire
 - Small arms training
 - Survival techniques



Results of Records Search (cont.)

- Pyrotechnics
 - *Smoke grenades*
 - *Flares*
 - *Grenade simulators*
- Underwater demolition
 - *In four areas*
- Standard military detonations
 - *Claymore mines, plastic explosives*





Step 2: Identify Reuse

- **Conservation of natural resources**
- **Limited access**
- **Future Owner:**
 - Commonwealth of Puerto Rico
 - Will be managed by the Puerto Rico Conservation Trust



Step 3: Identify Receptors

- **Receptors are the people that could be at risk from munitions**
 - Based on anticipated land use
- **Receptors are expected to be:**
 - Boaters
 - Land crabbers
 - Limited eco-tourism













Step 4: Perform Fieldwork

- **Visual survey to look for munitions**
- **Geophysics on land (magnetometer)**
 - Four beaches
 - Former trails
 - Land crabbing area
- **Underwater geophysics**
 - Four underwater demolition areas were identified
- **Soil sampling**
 - Test for munitions constituents

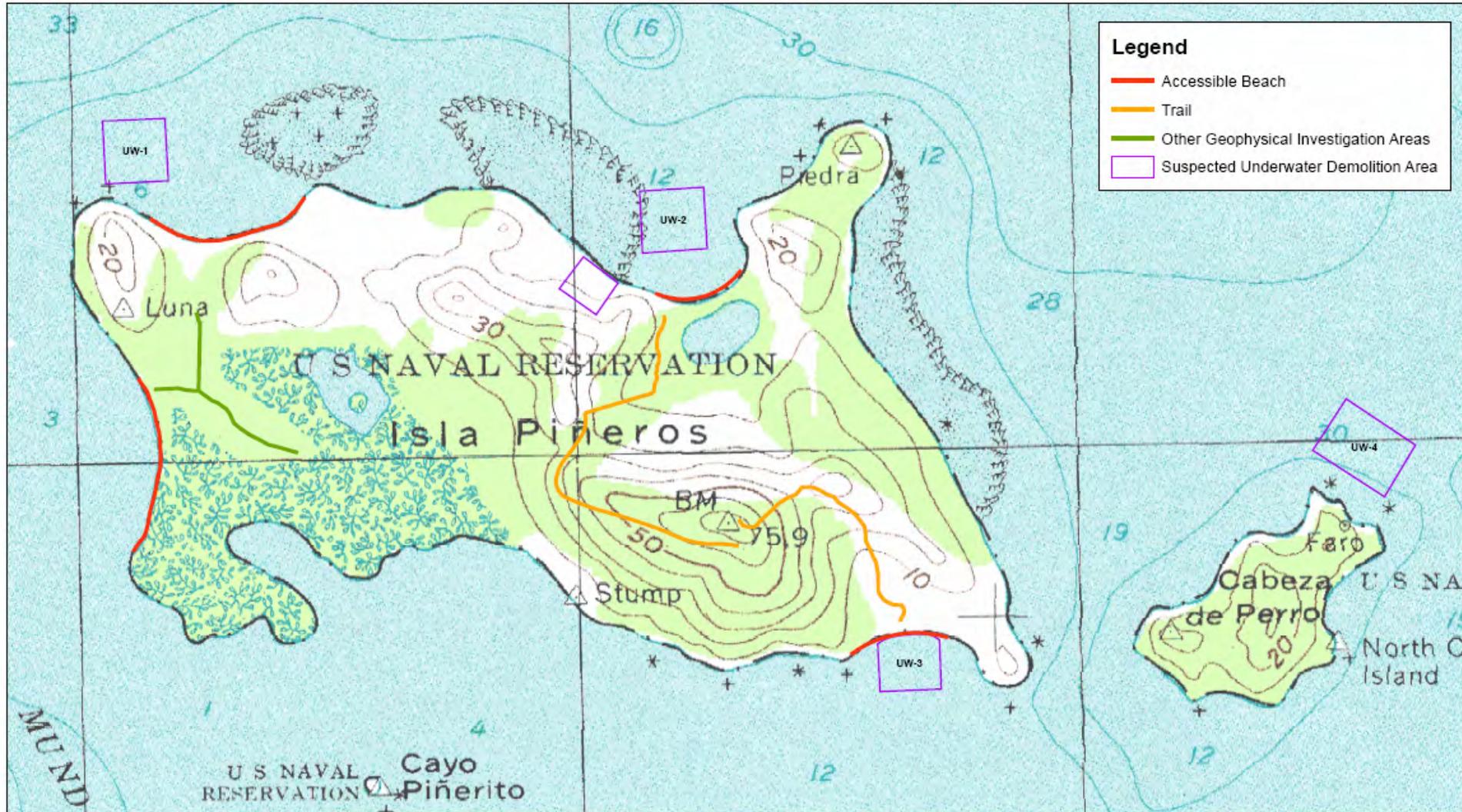


Fieldwork (cont.)

- **Fieldwork approach reviewed and accepted by:**
 - U.S. Fish and Wildlife Service
 - National Marine Fisheries Service
 - *To be protective of sea turtles, turtle nests, manatees, corals, critical habitat*
 - In accordance with the Endangered Species Act
 - *To be protective of endangered plants*



Investigative Areas



Legend

- Accessible Beach
- Trail
- Other Geophysical Investigation Areas
- Suspected Underwater Demolition Area

Geophysical Mapping on Land

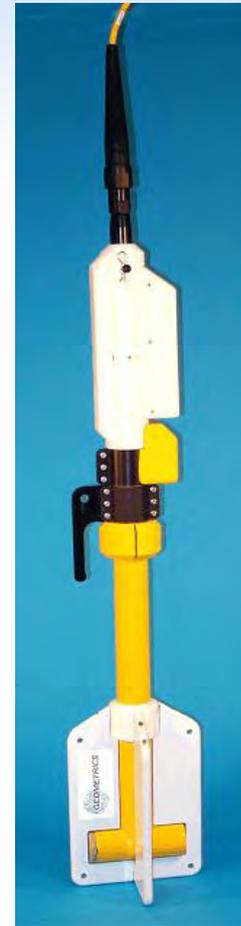
- **EM61-MK2**
(magnetometer)
 - 3,700 ft shoreline
 - 2,800 ft bunker trail
 - 1,600 ft of transects in land crabbing area





Underwater Geophysical Mapping

- **Geometrics G-882 Marine Magnetometer (tow fish)**
- **Four acres per area**
- **Four areas investigated**





Fieldwork Results

- **Magnetometer work on land found:**
 - 44 anomalies along the four beaches
 - 52 anomalies in the land crabbing area
 - 100 anomalies along the trail
- **Underwater magnetometer work found:**
 - 217 anomalies within the four areas



Fieldwork Results (continued)

- **Visual survey**

- 7 munitions and explosives of concern (MEC) items were discovered on the surface

- *Smoke grenades*
- *Flare*
- *M583 Star projectiles*

- All of these 7 items were destroyed by detonation



M34 Smoke Grenade, Hand



M69 (practice), M59/68 (Frag), or M33/67 (Frag)



M583 Star Projectile





M8 Smoke Grenade





Flare



Environmental Sampling

- **20 surface soil samples**
- **All samples analyzed for explosives residues (munitions constituents)**
- **Three samples also analyzed for other chemicals**
 - Volatile and semivolatile organic compounds, pesticides, PCBs, and RCRA metals
 - In land crabbing areas, helicopter landing area
- **All results were below EPA/EQB standards**



Path Forward

- **Investigate anomalies to determine what they are (intrusive work)**
 - All of the anomalies identified on land
 - Some percentage of underwater anomalies
 - Explosive Safety Submission required first
 - *Explosives work must be approved by Naval Ordnance Safety and Security Activity (NOSSA)*



Path Forward (continued)

- **Dispose of (detonate) any munitions discovered**
- **Prepare reports**
 - Phase I RFI Report
 - After Action Report
- **Based on results, BRAC Cleanup Team will come to consensus on any future work to be done**





Phase II Schedule

- **Explosive Safety Submission, Sept 2007**
 - NOSSA review
- **Field Work Plan, Sept 2007**
 - U.S. Fish and Wildlife Service consultation
 - National Marine Fisheries Service consultation
- **Fieldwork, January 2008 (?)**
 - Delayed until after sea turtle nesting season



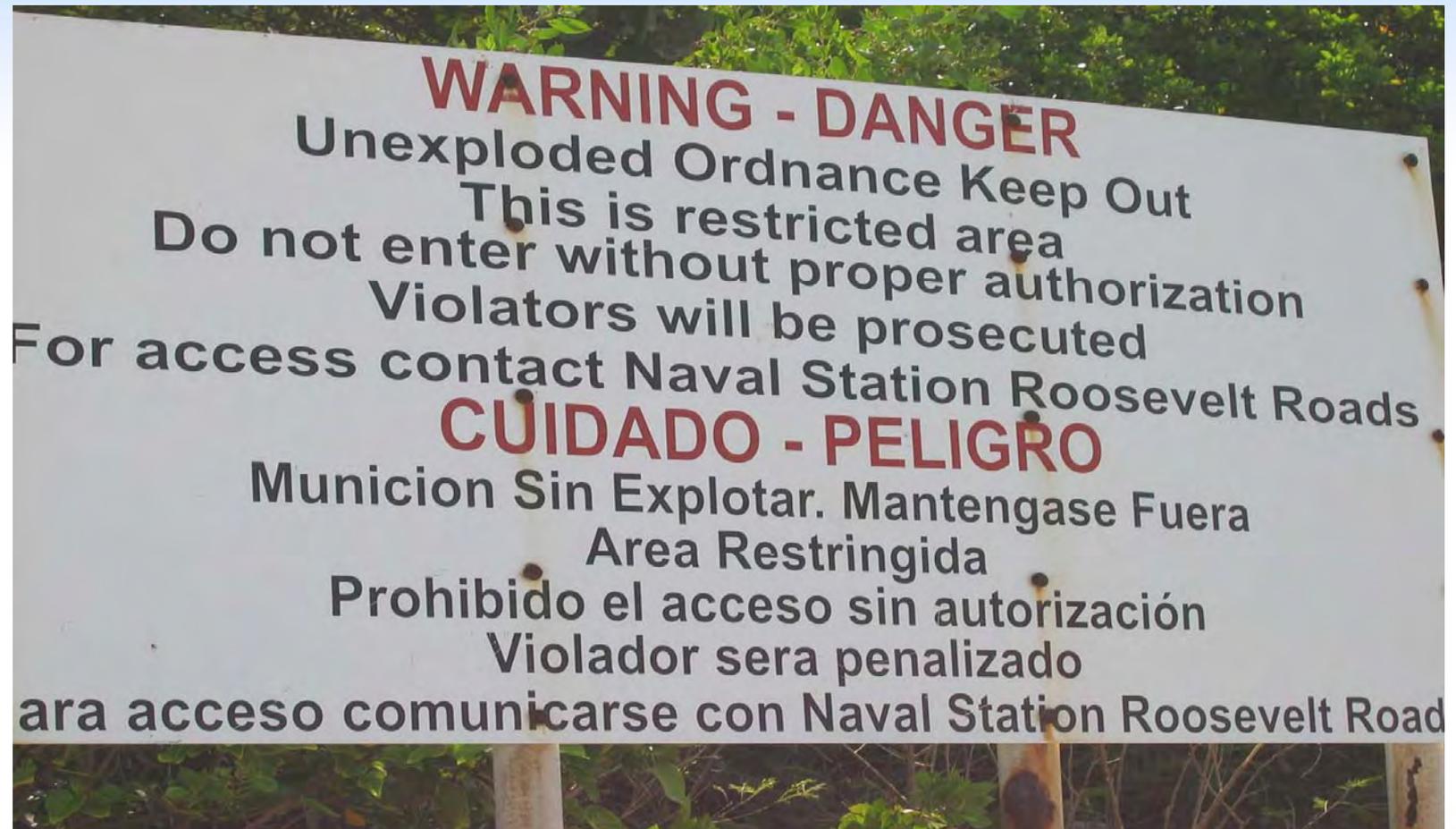


Transfer Information

- **Piñeros Island removed from the Covenant Deferral Request (CDR)**
 - In response to RAB comments
- **Piñeros is NOT part of the pending Conservation Parcel transfer**
- **Navy will retain Piñeros until completion of munitions response**
 - Responsible for security of the island until response is complete



These islands are still closed to the public

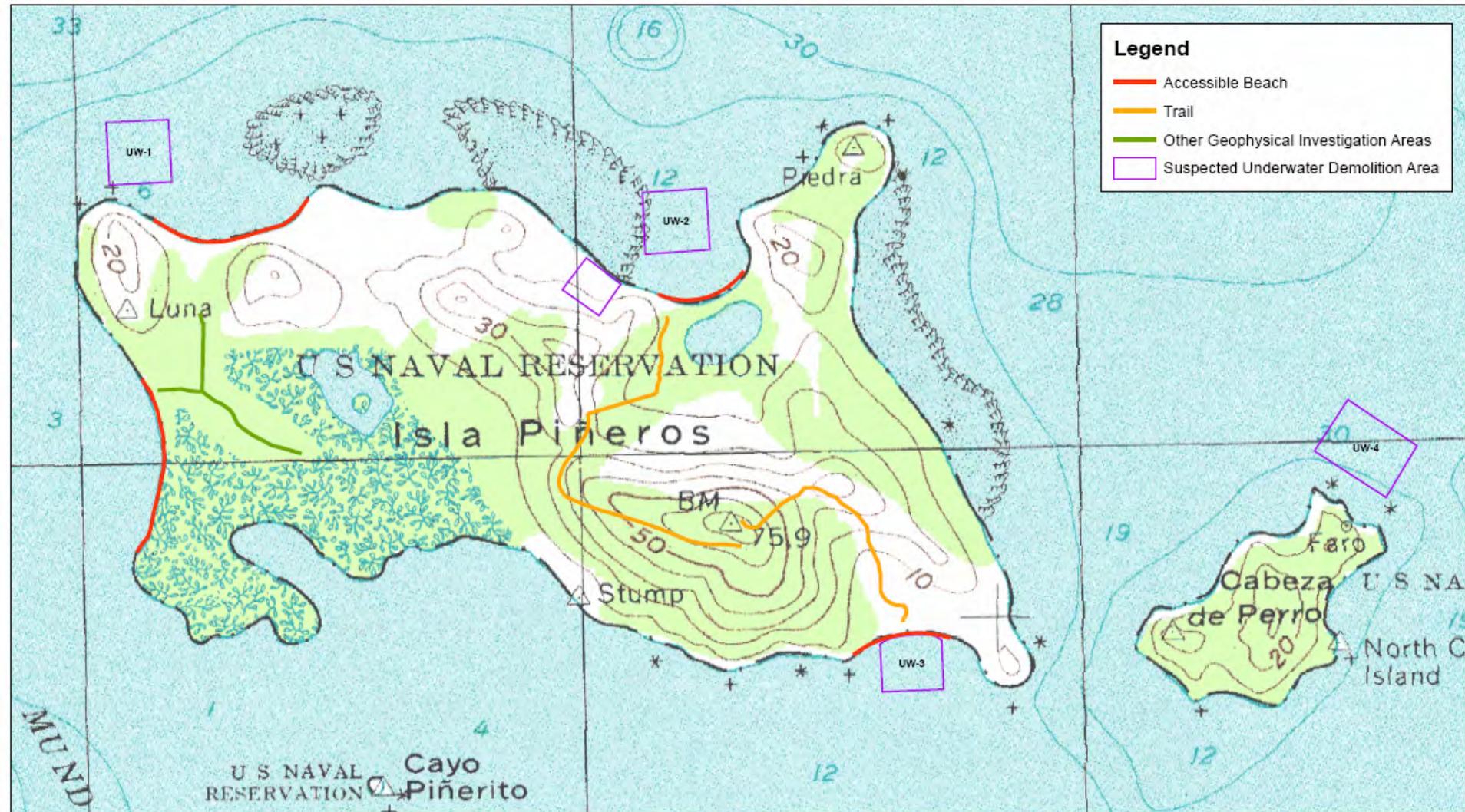


Trespassing is dangerous!

- ***For your own safety, please keep off these islands until the investigations and cleanup are completed***
- **RAB members can help by telling others**
 - Local residents
 - Fishermen
 - Tourists
 - Marina operators



Questions about UXO work?



Legend

- Accessible Beach
- Trail
- Other Geophysical Investigation Areas
- Suspected Underwater Demolition Area

Punta Puercas, P.R. USGS Topo Map - Photorevised 1982

500 250 0 500 Feet

1 inch equals 600 feet

Public Questions and Comments *(any relevant topic)*



Closing: Action Items

New Action Item	Person(s) Responsible





Closing: next RAB meeting

- **Next RAB meeting in mid-August**
 - Back to Club Cívico La Seyba, if available?
 - Please remember to call ahead, or send an alternate, if you cannot attend
- **Homework:**
- **Agenda suggestions for next time?**
- **Thank you for participating!**



Questions between meetings

**David Criswell or
Mark Davidson**

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