

RAB Meeting

Time Critical Removal Action Update

Munitions Response Program

Vieques, Puerto Rico

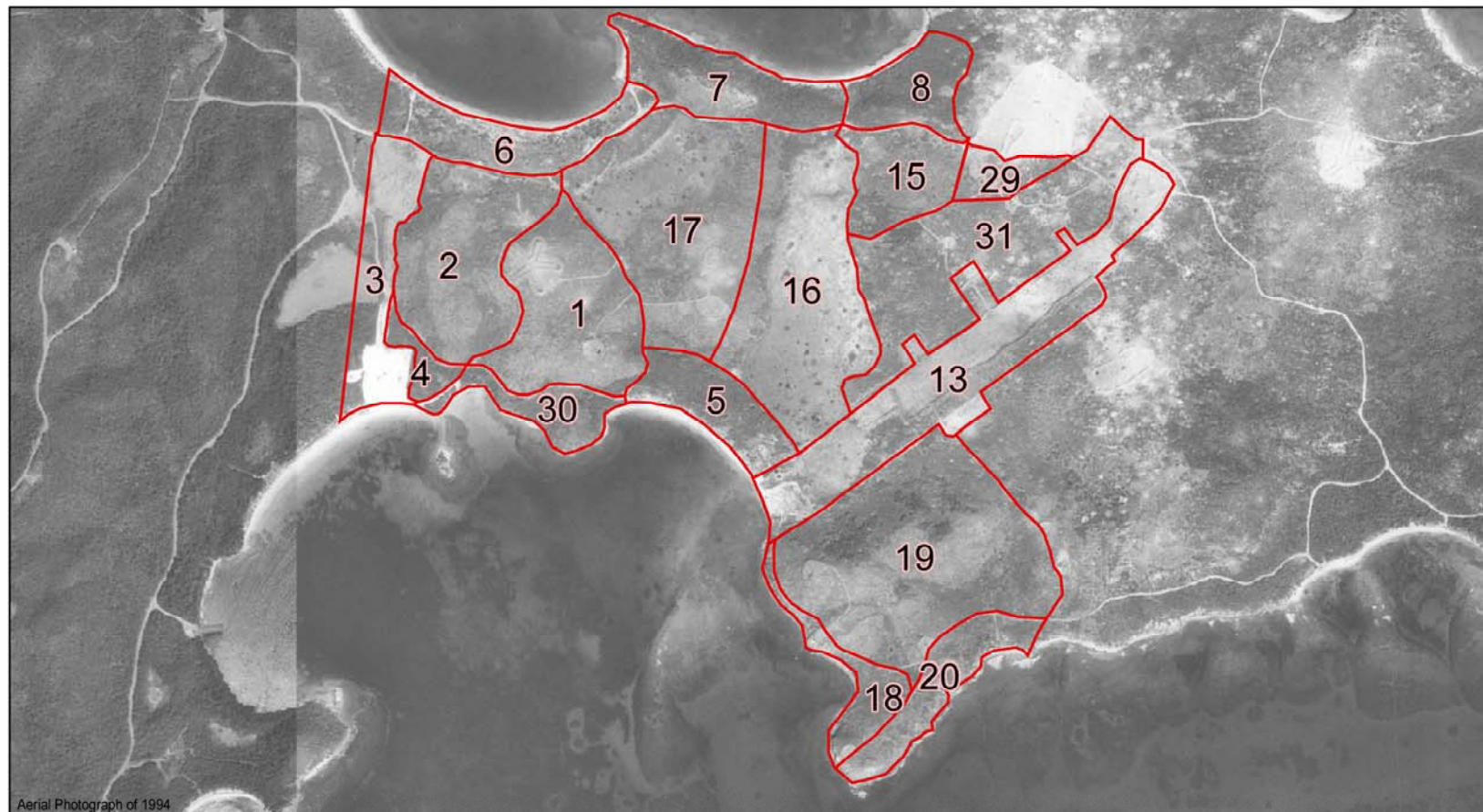
June 2006

TCRA Objectives



- ❖ Remove all MEC equivalent to or larger than a 20mm projectile present or partially exposed at the ground surface from 400 acres within the MRA-LIA.
- ❖ Reduce risks at MRSs identified as posing an explosive hazard due to MEC present or partially exposed at the ground surface.

Current TCRA Area



Aerial Photograph of 1994

Legend

 MRS Boundaries

Note: See Figure 1-2 for reference



0 150 300
Meters

Figure 1-3
TCRA Areas
Former VNTR
Vieques, Puerto Rico

CH2MHILL

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Project Through June 2, 2006



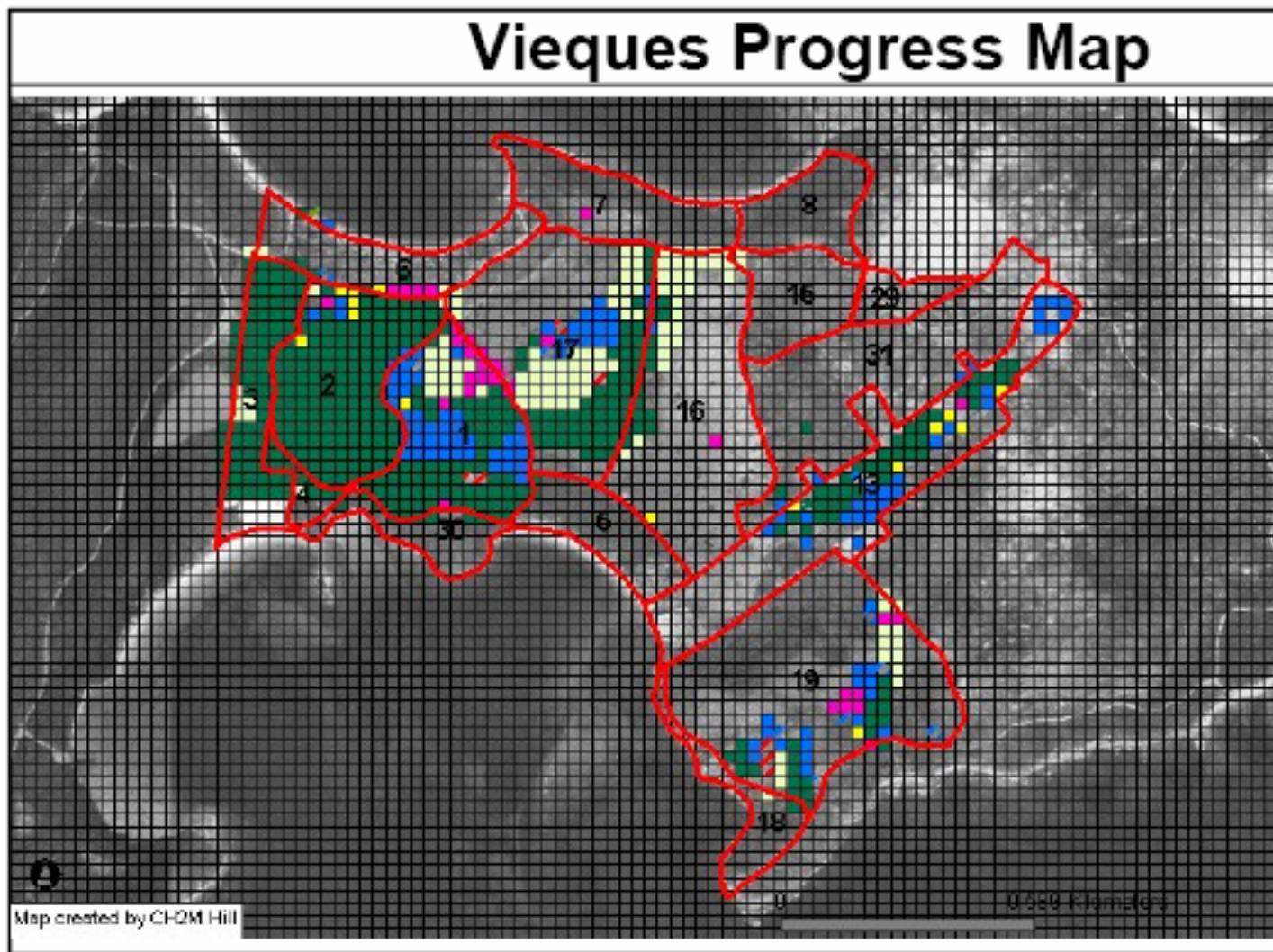
- ❖ **208 acres surface cleared (65 acres of beach area cleared during Phase I SI).**
- ❖ **Items located requiring detonation:**
 - Bombs – 310 (65 high explosive)
 - ✓ 250lb - 3
 - ✓ 500lb - 53
 - ✓ 750lb - 1
 - ✓ 1000lb - 5
 - ✓ 2000lb - 3
 - ICMS/grenades/flares-pyrotechnics – 109 (71 high explosive)
 - Rockets/guided missiles – 39 (32 high explosive)
 - Projectiles/mortars – 588 (327 high explosive)

Project Through June 2, 2006



- ❖ **14 demolition events conducted since August 17, 2006.**
- ❖ **66 demolition shots carried out during the 14 events.**
- ❖ **Measures taken to protect safety of public:**
 - Notice to Mariners (U.S. Coast Guard)
 - Notice to Airmen (Federal Aviation Administration)
 - Notification made to U.S. EPA, PR EQB, U.S. FWS, PR State Police, and Municipality of Vieques
 - Boat patrols on north and south sides of LIA to inform boaters during demolition events
 - Fact sheets
 - Public notices
 - Flyers

Project Through June 2, 2006



Project Through June 2, 2006



- ❖ **Air monitoring is being conducted to evaluate BIP impacts, results to date show no detections of explosives compounds and no metals exceeding screening levels.**
- ❖ **Particulate matter exceeded National Ambient Air Quality Standard for one event.**
 - Demolition event conducted April 20 and subsequent fire
 - PM10 average on April 21 = 153 ug/m³
 - National Ambient Air Quality Standard = 150 ug/m³
- ❖ **Projected completion date for first phase (400 ac) of TCRA is late 2007/early 2008.**

Project Through June 2, 2006



Project Through June 2, 2006



Project Through June 2, 2006



- ❖ Currently all munitions debris, range related debris, or other debris from removal action is staged on-site.
- ❖ Initial plan developed for on site processing of range related and munitions related debris.
- ❖ Draft work plan submitted and reviewed by regulatory agencies.
- ❖ Preliminary tests (off-site) of proposed equipment conducted.

Project Through June 2, 2006



- ❖ **Biological assessment is being conducted.**
- ❖ **Consultation with USFWS personnel regarding comments and responses on the Draft BA scheduled for beginning of June.**