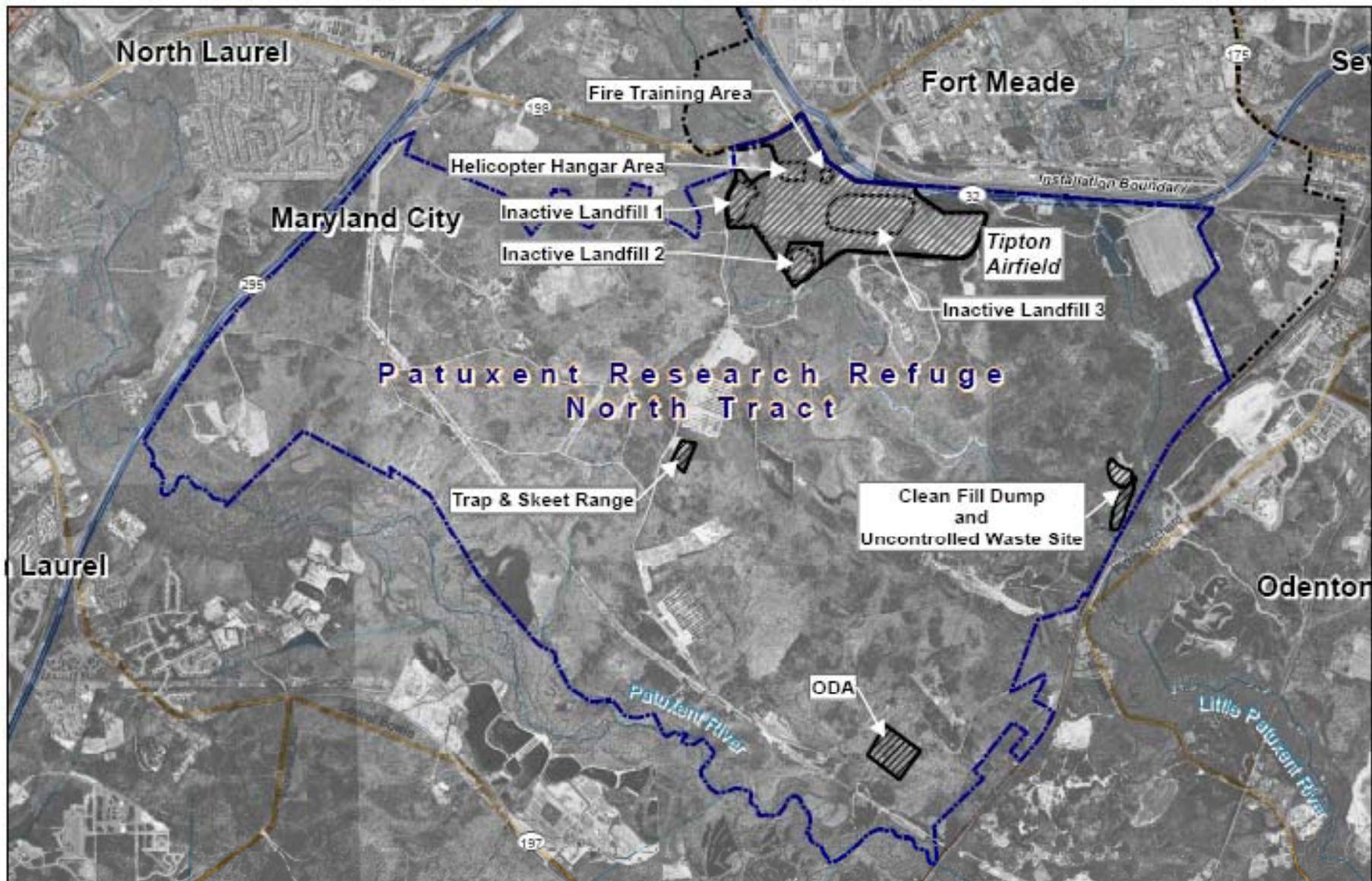


FORT GEORGE G. MEADE

Legacy BRAC Cleanup Program at the Transferred Properties (Areas South of Route 32)

Tipton Airfield Parcel (TAP) Update

March 17, 2010



TAP Background

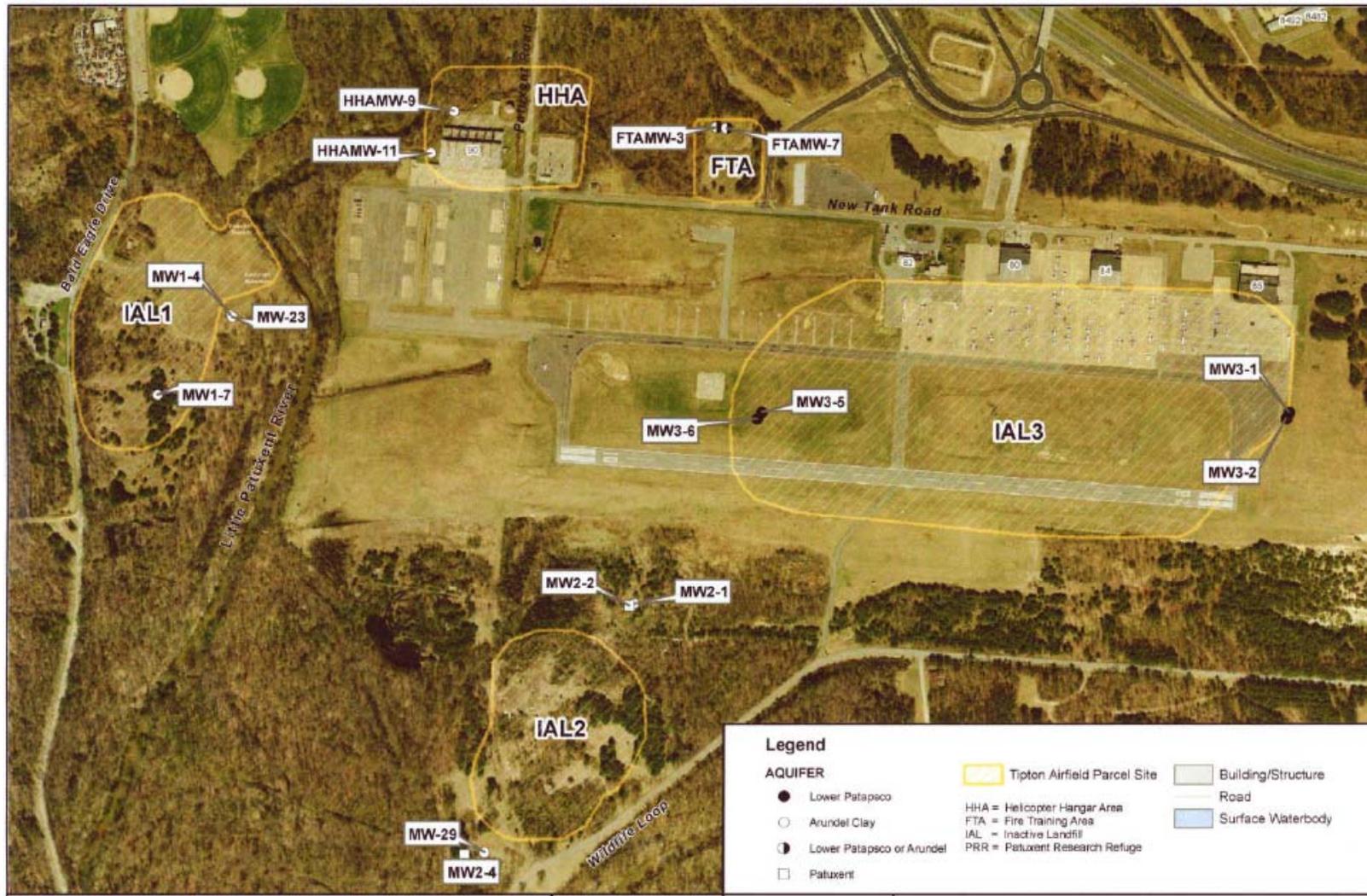
- The 346-acre TAP was transferred in 1991 to Anne Arundel County under the Base Closure and Realignment Act of 1988 (BRAC) for use as a small municipal airfield for light fixed wing and rotary wing aircraft.
- Several areas were identified that required environmental investigation: IAL 1, IAL 2, IAL 3, FTA and HHA. The Little Patuxent River flows through the TAP and is assessed as a separate site for MEC only.
- Use of the TAP as a military range has been documented as far back as the early 1920s. In Special Military Maps from 1923, the area later designated as Tipton Airfield was identified as an artillery impact area. A 1941 Cantonment Map shows that two ranges were located within the future Tipton airfield.

TAP
Area-wide Groundwater
Monitoring

TAP Biennial GW Program

- Eleven Monitoring Wells
- Analytical Parameters (varies by well)
 - VOCs
 - benzene; 1,1,2,2-trichloroethane; carbon tetrachloride
 - Semi-VOCs
 - Naphthalene; bis-2-ethylhexylphthalate
 - Metals
 - arsenic; iron; manganese
- Next LTGM event to be conducted Summer 2011

TAP Well Locations



TAP
Inactive Landfills (IAL)
1,2 and 3 Annual Maintenance
Inspections

TAP Sub-Areas : HHA; FTA; IALs 1,2,3 and Little Patuxent River



TAP Annual IAL Maintenance

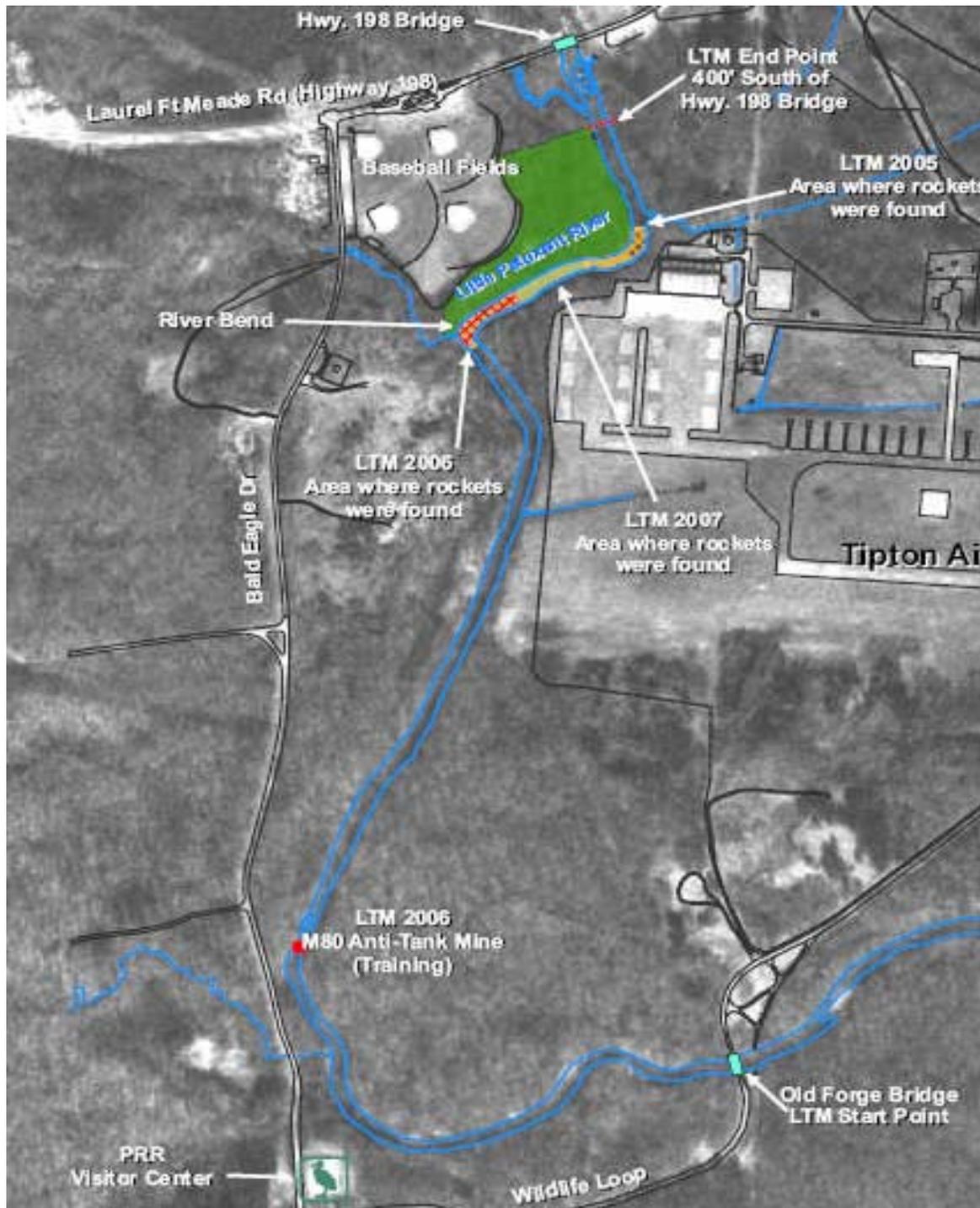
- **Inactive Landfill 1:** ~ 8 acres. Ordnance clearance to a 4-foot depth. An area of IAL 1 not cleared is approximately 5.5 acres; and a 3-foot thick safety cover was constructed.
 - LUCs: No subsurface excavations, digging, or drilling
 - Annual monitoring of UXO safety cover and minimize erosion impacts
- **Inactive Landfill 2:** ~ 10 acres. IAL 2 could not be cleared of suspected ordnance because the area contains large amounts of rubble debris and is partially composed of wetlands with a shallow water table. The selected remedy was installing a seven-foot high chain link fence with three-strand barbed wire around the landfill. IAL 2 was not included in the TAP transfer to Anne Arundel County.
 - LUCs: No subsurface excavations, digging, or drilling
 - Annual monitoring of perimeter fence to ensure integrity
- **Inactive Landfill 3:** ~ 78 acres. Ordnance clearance to 4 feet in 10% of area and a 3-foot UXO safety cover was constructed.
 - Annual MEC visual sweeps
 - Subsurface MEC sweeps 2001, 2006, and 2011

2010 Annual ILF Maintenance Activities

- ILF Maintenance Activities were conducted in September 2010.
- 2010 Annual Maintenance Inspection Draft Report for Inactive Landfills 1, 2 and 3 was submitted for regulatory review on December 8, 2010
- EPA, MDE, and FWS have provided comments to the draft report and EPA and MDE have provided follow up comments to the Army's Responses to Comments (RTCs).
- Final Report will be submitted in April 2011.
- The Fort Meade Legacy BRAC program invites community RAB members to review and comment on the Draft Report:
 - <http://www.fortmeade-ems.org/public/environmental/default.asp>

CDs or hard copies can be provided upon request.

TAP
Little Patuxent River MEC
Sweep



Little Patuxent River MEC Sweep Segment

River Sweep UXO Techs



Picture 1-1: Little Patuxent River – Old Forge Bridge in the Background

Example of Recovered Items



LPR MEC 2010 Sweep Results

- Visual inspection of the LPR banks and bottom were conducted August 23 – 26, 2010.
 - 75 recovered items consisting of:
 - 74 2.36-inch rockets, and
 - 1 ballistic counterweight
 - All 74 rockets were confirmed as either expended practice rounds or were visually identified as munitions debris (MD).
- The 2010 LPR MEC Sweep Draft Report was submitted December 2010. EPA, MDE provided comments to the Draft. Update was provided to the community RAB members on January 20, 2011.
- The 2010 LPR MEC Sweep Final Report was submitted February 2010. That document can be found at:

<http://www.fortmeade-ems.org/public/environmental/default.asp>

Draft

**Explanation of Significant Difference Report
Tipton Airfield Parcel
Anne Arundel County, MD**

January 2011

**Contract Number: W912DR-09-D-0017
Delivery Order: 0019**

Tipton Airfield Parcel

An aerial photograph of a large area in Anne Arundel County, Maryland. A specific parcel, the Tipton Airfield Parcel, is outlined in red. The parcel is located in the center-right of the image and contains several large, light-colored rectangular structures, likely hangars or aircraft storage buildings. The surrounding area is a mix of green fields, roads, and other developed areas. A blue line, possibly a waterway or boundary, runs through the upper part of the image.

**Draft
TAP
ESD**

Background of Regulatory and Safety Drivers

- Record of Decision (December, 1998): Addressed HHA, FTA, IAL 3 (NFA for soils).
- Record of Decision (June, 1999): Addressed IAL1 and IAL 2 (NFA for soils) and the TAP GW OU (NFA with LTM and LUCs), and 5-year recurring reviews.
- 1998 Decision Document: Provided MEC remedial actions and safety precautions for TAP IALs including LUCs and LTM.
- Other Actions: The TAP Explosives Safety Submission (USACE, 1995) was changed as documented in the *Amendment to Explosives Safety Submission for Tipton Army Airfield, Fort Meade, Maryland (FGGM, 1997): Established annual LPR MEC sweeps*

TAP MEC Background

- **Ordnance Survey (1994):** All areas of the airfield and surrounding areas to a depth of 6 inches below the surface, and 10% of the remaining area was surveyed for ordnance to a depth of 5 feet. 1,400 ordnance items were removed.
- **Ordnance Clearance (1995-1997):** All accessible areas to a 4 foot depth. The IALs, wetlands, and all paved surfaces were excluded. 1,548 ordnance items were recovered and 33 tons of scrap (non-MD).
- **Ordnance Removal, Airfield Drainage Swale (1998):** Ordnance removal from a drainage swale located on the airfield. 420 items were recovered from areas previously inaccessible due to standing water.

Why an ESD?

- **CERCLA Requirement:** The NCP requires the publication of an ESD when modifications significantly change, but do not fundamentally alter, the remedial action selected in the Record of Decision (ROD) with respect to scope, performance, or cost.
- **Requirement of the 2009 Fort Meade FFA:** To ensure the continued protectiveness of the remedial action at TAP, the Army agrees to develop an ESD that addresses 1) the need for ordnance sweeps; 2) appropriate disposal of ordnance if discovered, and 3) MEC LUC requirements.
- **Consolidate Regulatory and Safety Drivers:** Scattered across multiple documents. Some are CERCLA documents (RODs) and others are unilateral Army documents (i.e., Decision Documents, Explosive Safety Submissions). This ESD adds the existing LUCs implemented under the 1998 UXO DD and Nov 1998 DD Addendum and the ESS to the 1999 ROD.
- **Modify the Selected Remedy for the GW OU:** The selected remedy for groundwater OU will be changed from “NFA with groundwater monitoring” to “LUCs with groundwater monitoring.”

Draft ESD

- The Tipton Airfield Parcel Draft ESD was submitted for regulatory review on January 7, 2011. EPA and MDE have recently (March 2011) provided initial responses to the draft document.
- The Fort Meade Legacy BRAC program invites community RAB members to review and comment on the Draft ESD:

<http://www.fortmeade-ems.org/public/environmental/default.asp>

- CDs and hard copies can be provided as requested.
- NOTE: A subsequent Land Use Control Implementation Plan (LUCIP) will address notice of planned construction and construction support where necessary, appropriate disposal of any discovered ordnance, and institutional and engineering controls (signage, fencing, education, and notice requirements) to ensure the continued protectiveness of previous and future MEC removal actions at the TAP.

QUESTIONS ?

Points of Contact

Markus Craig

Program Manager

Office of the Assistant Chief of Staff for Installation Management; BRACD

NC3 - Taylor Building

2530 Crystal Drive # 5064 A

Arlington, VA 22202

Office phone: 703-602-0202

markus.a.craig@us.army.mil

Steve Cardon, CHMM

BRAC Environmental Coordinator

Department of the Army

Directorate of Public Works - Environmental Division

239 Chisholm Ave; Suite 5115

Fort Meade, MD 20755-7068

steve.cardon@us.army.mil