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NAS CECIL FIELD
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MUNITIONS AND EXPLOSIVES OF CONCERN REMEDIAL INVESTIGATION REPORT FOR
MUNITIONS RESPONSE PROGRAM AT OPERABLE UNIT 5 (OU 5) SITE 15 BLUE 10
ORDNANCE DISPOSAL AREA NAS CECIL FIELD FL
01/01/2011
TETRA TECH NUS

Comprehensive Long-term Environmental Action Navy

CONTRACT NUMBER N62470-08-D-1001



MEC Remedial Investigation Report for Munitions Response Program at Operable Unit 5, Site 15 Blue 10 Ordnance Disposal Area

Naval Air Station Cecil Field
Jacksonville, Florida

Contract Task Order JM09

January 2011



BRAC Program Management Office Southeast
4130 Faber Place Drive, Suite 202
North Charleston, South Carolina 29405

**REMEDIAL INVESTIGATION REPORT
FOR MUNITIONS RESPONSE PROGRAM
MEC REMEDIAL INVESTIGATION AT
OPERABLE UNIT 5, SITE 15 - BLUE 10 ORDNANCE DISPOSAL AREA**

FOR

**NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA**

**COMPREHENSIVE LONG-TERM
ENVIRONMENTAL ACTION NAVY (CLEAN) CONTRACT**

**Submitted to:
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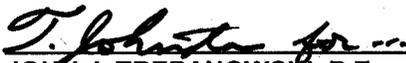
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ACRONYMS

| | |
|--------|---|
| ABB-ES | ABB Environmental Services, Inc. |
| AOC | Area of Concern |
| bgs | Below ground surface |
| BRAC | Base Realignment and Closure |
| CERCLA | Comprehensive Environmental Response, Compensation, and Liability Act |
| CFR | Code of Federal Regulations |
| CLEAN | Comprehensive Long-term Environmental Action Navy |
| COCs | Contaminants of Concern |
| CSM | Conceptual Site Model |
| CTO | Contract Task Order |
| DERP | Defense Environmental Restoration Program |
| DGM | Digital geophysical mapping |
| DID | Data Item Description |
| DoD | Department of Defense |
| ESS | Explosives Safety Submission |
| FCREPA | Florida Committee on Rare and Endangered Plants and Animals |
| FDEP | Florida Department of Environmental Protection |
| FFA | Federal Facility Agreement |
| FY | Fiscal Year |
| GPO | Geophysical prove-out |
| GPS | Global Positioning System |
| GSV | Geophysical System Verification |
| HASP | Health and Safety Plan |
| HDOP | Horizontal dilution of precision |
| IVS | Instrument Verification Strip |
| JEDC | Jacksonville Economic Development Commission |
| LUC | Land Use Control |
| MC | Munitions Constituents |
| MD | Munitions Debris, now referred to as MDAS |
| MDAS | Material Documented as Safe, formerly MD |
| MDEH | Material Documented as an Explosive Hazard |
| MEC | Munitions and Explosives of Concern |
| mm | Millimeter |

| | |
|------------|---|
| MPPEH | Material Potentially Presenting an Explosive Hazard |
| MRP | Munitions Response Program |
| MRS | Munitions Response Site |
| NAD | North American Datum |
| NAS | Naval Air Station |
| NGVD | National Geodetic Vertical Datum |
| NOSSA | Naval Ordnance Safety and Security Activity |
| NOSSAINST | NOSSA Instruction |
| NPL | National Priorities List |
| OU | Operable Unit |
| PA | Preliminary Assessment |
| PAH | Polynuclear aromatic hydrocarbon |
| PMO | Program Management Office |
| PVC | Polyvinyl chloride |
| QC | Quality Control |
| RD | Remedial Design |
| RI | Remedial Investigation |
| ROD | Record of Decision |
| RPM | Remedial Project Manager |
| SAP | Sampling and Analysis Plan |
| SARA | Superfund Amendments and Reauthorization Act |
| SI | Site Inspection |
| SOP | Standard Operating Procedure |
| SUXOS | Senior UXO Supervisor |
| TAL | Target analyte list |
| TRPH | Total recoverable petroleum hydrocarbons |
| Tetra Tech | Tetra Tech NUS, Inc. |
| U.S.C. | United States Code |
| USEPA | United States Environmental Protection Agency |
| UFP | Uniform Federal Policy |
| USACE | United States Army Corps of Engineers |
| UXO | Unexploded Ordnance |
| UXOQCS | UXO Quality Control Specialist |
| UXOSO | Unexploded Ordnance Safety Officer |
| YWWA | Yellow Water Weapons Area |

EXECUTIVE SUMMARY

Tetra Tech NUS, Inc. (Tetra Tech) has been retained by the United States Department of Navy, Base Realignment and Closure Program Management Office Southeast (BRAC PMO SE) to perform a Remedial Investigation (RI) to assess munitions and explosives of concern (MEC) at Munitions Response Site (MRS) Operable Unit (OU) 5, Site 15 - Blue 10 Ordnance Disposal Area, located at the former Naval Air Station (NAS) Cecil Field, Jacksonville, Florida. Field activities included an unexploded ordnance (UXO) detector-aided survey of surface soil and subsurface soil. RI activities were conducted for Contract Task Order (CTO) JM09 under the Naval Facilities Engineering Command (NAVFAC) Comprehensive Long-Term Environmental Action Navy (CLEAN) Contract No. N62470-08-D-1001.

Site 15 - Blue 10 Ordnance Disposal Area, is located in the southwestern section of the Yellow Water Weapons Area (YWWA) of NAS Cecil Field. The site covers approximately 85 acres and is relatively level. The skeet and trap range was formerly located at the site from the early 1940s to the mid-1950s. The former skeet and trap range was approximately 55 acres (1,000 feet by 2,400 feet) in size. Site 15 was also used for ordnance disposal from the 1960s to 1977, with disposal consisting of burning of ordnance materials in a large metal burn chamber and static firing of rockets. The ordnance disposal structures were located on the western side of the former skeet and trap ranges. The majority of disposed ordnance at the site was burned and included small arms munitions up to 20 millimeters (mm) in size, parachute and distress flares, Mark IV signal cartridges, rocket igniters, cartridge-activated devices, and 2.75-inch and 5-inch rockets. Rocket propellant was reportedly placed on the ground and ignited in the area of the burn chamber. Rocket motors were disposed of by static firing of both 2.75-inch and 5-inch rockets from a firing pad located south of the burn chamber. An estimated 2.5 tons of ordnance were disposed of at the site each month; an estimated total of 350 tons of ordnance were disposed at the site while it was in operation.

Until 2008, the ordnance burn chamber and static rocket firing pad located in the north-central portion of the site were the only structures related to historical activities that remained at the site. The burn chamber was a rounded, steel, tank-like container, approximately 10 feet in length and 4 feet in height. The static rocket firing pad was an L-shaped concrete structure approximately 10 feet long by 4 feet wide by 6 feet high. These structures were removed in 2008 as part of the soil remediation activities.

The majority of chemical contamination at Site 15 is associated with the ordnance disposal area and the former skeet and trap range. Chemical contamination was found associated with these sources as well as forest burn activities. Contaminants of concern (COCs) were identified [lead, polynuclear aromatic

hydrocarbon (PAHs) and total recoverable petroleum hydrocarbon (TRPHs)] and the extent of contamination was determined. Various investigations of chemical contamination were conducted and the results were presented in a RI Report [ABB Environmental Services (ABB-ES), October 1997]. The Record of Decision (ROD) (Tetra Tech, 2008) specified removal of contaminated soil to meet the future land use controls (LUC) and to prevent unacceptable ecological exposure. The extent of PAH-, lead-, and TRPH-contaminated soil from 17 excavation areas (A to Q) was delineated and excavated in 2008/2009 to meet the future land use requirements.

As part of the 2008/2009 soil remedial action, MEC and vegetation clearance was conducted in portions of the site prior to soil excavation activities related to chemical contamination. Based on the findings of a MEC Preliminary Assessment/Site Inspection (PA/SI) conducted in 2007 (CH2MHill, 2007), MEC removal was necessary before soil excavation activities for the contaminated soil remedial action could proceed. The MEC related removal focused only on the areas of soil excavation activities and included subdivision of Site 15 through land survey into 100-foot by 100-foot grid cells, vegetation reduction, MEC surface clearance, digital geophysical mapping (DGM) with EM61-MK2 time-domain metal detection and magnetic target anomaly identification, manual and mechanical-aided intrusive investigation of DGM target anomalies, and demolition of MEC items. The munitions survey included 100-percent clearance to 2 feet below ground surface (bgs) and removal of MEC and material documented as safe [MDAS, formerly referred to as munitions debris (MD)] from the grids included in the survey (AGVIQ-Ch2MHill, August 2009).

The chemical contamination investigation had included munitions contaminants of concern, except for nitroglycerin. Although nitroglycerin (propellant) was not investigated, soil in the potential area of concern was removed during the 2008/2009 soil removal effort from the former burn chamber, where rocket propellants were reportedly placed on the ground, ignited, and presumed to be consumed. The burn chamber, firing pad, and several concrete building foundations (remnants of buildings that supported skeet and trap range activities) located in the area surrounding the burn chamber and firing pad were removed in 2008. Therefore, no additional analysis for chemical contamination was warranted during this MEC RI.

Results of this MEC RI were consistent with the conceptual site model (CSM) developed by Tetra Tech (2010) in the MEC RI Uniform Federal Policy Sampling and Analysis Plan (UFP-SAP). Based on the detector-aided survey performed during this MEC RI, the density of surface MEC/materials potentially presenting an explosive hazard (MPPEH) is characterized as low over the majority of the surface of the site. The term MPPEH is a DoD classification (2008) used to classify a munitions item prior to knowing the explosive safety status of the item and includes items that may potentially contain Material

Documented as an Explosive Hazard (MDEH) or MDAS. However, approximately 1,600 subsurface anomalies were detected during the MEC RI, and so the subsurface density would be expected to be high. Consistent with the CSM, higher subsurface anomaly density is present nearest the ordnance disposal area and generally decreases moving outward. Based on the previous 2008/2009 results, the source of the anomalies is expected to be largely MDAS, with a low number of MEC or material documented as MDEH items present. [Table ES-1](#) summarizes the MEC/MPPEH evaluation.

As expected, the results of this MEC RI, Site 15 still contains MPPEH on the surface, and MEC may remain on the surface of the site. Because widely spaced transects were employed during the MEC RI, it is uncertain what remains in areas not yet investigated. Likely, MEC/MPPEH also remains in the subsurface based on subsurface anomalies potentially representing MEC/MPPEH identified during the MEC RI detector-aided surface survey. Without intrusive investigation, the nature of the subsurface anomalies cannot be determined. For both the surface and subsurface, results indicate that potential explosive hazards are largely associated with the ordnance disposal area and roadways.

A potential explosive safety risk was identified for Site 15 based on the presence of MPPEH and the historical presence of MEC (2008/2009 soil remediation), potentially hazardous nature of the items, and accessibility of the site to human receptors, particularly in light of the intended LUC allowing low-intensity recreational area (i.e., hiking, biking, bird watching, or hunting). Based on information collected during the MEC RI, the likelihood of encountering MEC/MPPEH on the ground surface and in the subsurface (0 to 1 foot bgs) at Site 15 is high.

This MEC RI was conducted practicing UXO avoidance, and so the source of the subsurface anomalies is unknown. It is recommended that Site 15 proceed to a Supplemental RI where subsurface intrusive investigation can be conducted to further assess if MEC/MPPEH is the source of anomalies encountered, and if so, how far out from the former ordnance disposal area the MEC/MPPEH extends in the subsurface. Further investigation of select subsurface anomalies located along transects characterized as having a high anomaly density (greater than 20 anomalies) is warranted to confirm the presence of MEC/MPPEH in these areas in the shallow subsurface. In addition, investigation of specific transects with a medium (6 to 20) to low (1 to 5) anomaly densities near the perimeter of the survey area is warranted to confirm that subsurface anomalies near the survey area perimeter are the result of non-munitions debris, or MDAS, which does not pose a risk, as opposed to MEC, which poses a high hazard/risk. In addition, MPEH encountered during the MEC SI can be rendered safe.

TABLE ES-1

MEC/MPPEH EVALUATION
 NAS CECIL FIELD
 JACKSONVILLE, FLORIDA

| Site Name | Size (acres) | Date of Use/Use | RI MEC/MPPEH Results | | Changes to CSM | MEC/MPPEH Recommendations |
|--|--------------|--|---|--|--|---|
| | | | Surface MEC/MPPEH | Subsurface MEC/MPPEH ⁽¹⁾ | | |
| Operable Unit (OU) 5, Site 15 - Blue 10 Ordnance Disposal Area | 85 | Early 1940s to mid 1950s - skeet and trap range 1960s to 1977 - ordnance disposal | No surface MEC was identified during MEC RI. (Limited MEC removal action was previously conducted in 2008 and 2009 (AGVIQ Ch2MHill, August 2009)). Surface MPPEH encountered during the MEC RI included propellant cans, slap flare cases, fuze parts, a 20mm target practice (TP) projectile, missile parts, a smoke grenade, a smoke marker, and a blast plate. | Numerous anomalies, potentially MEC/MPPEH, detected during performance of detector-aided survey. | None. As expected based on the previous MEC removal action conducted in 2008 and 2009 (AGVIQ Ch2MHill, August 2009), no MEC was encountered on the ground surface, although MPPEH was encountered; for the subsurface, decreasing anomaly density with increased distance from the ordnance disposal area. | Supplemental MEC RI necessary to investigate subsurface magnetic anomalies to determine if MEC/MPPEH or non-munitions related debris. |

1 No intrusive MEC investigation was performed during the MEC RI in accordance with the RI planning documents as restricted by Naval Ordnance Safety and Security Activity (NOSSA) during the RI phase of Navy munitions investigation projects.

1.0 INTRODUCTION

1.1 PURPOSE OF REPORT

This Remedial Investigation (RI) report describes activities, results, and associated recommendations to assess munitions and explosives of concern (MEC) at Munitions Response Site (MRS) Operable Unit (OU) 5, Site 15 - Blue 10 Ordnance Disposal Area, which is located at the former Naval Air Station (NAS) Cecil Field, Jacksonville, Florida (Figure 1-1). A Record of Decision (ROD) for OU 5, Site 15, was signed in June 2008 for selection of a remedy for chemical contamination at Site 15 (Tetra Tech, 2008), and included land use controls (LUC) and soil excavation. Prior to excavation, a munitions survey was conducted at Site 15 in and around the soil excavation areas, and MEC and material documented as safe (MDAS) [formerly termed munitions debris (MD)] were found and removed from excavation areas before soil excavation (AGVIQ-CH2MHill, 2009). Based on the occurrence of MEC and MDAS in the surveyed areas, it was likely that MEC and MDAS were present in areas that were not surveyed as part of the remedial action for the chemically contaminated soil. This MEC RI report addresses the further investigation of MEC and MDAS required at Site 15 based on the results of previous remedial activities. This work was performed by Tetra Tech NUS, Inc. (Tetra Tech) under Comprehensive Long-Term Environmental Action Navy (CLEAN) Contract Number N62470-08-D-1001, Contract Task Order (CTO) JM09.

1.2 SCOPE OF WORK

Field activities included an unexploded ordnance (UXO) detector-aided survey of the site. The scope of this MEC RI was to delineate, generally, the extent of potential munitions related items still present at the ground surface and delineate the extent of magnetic anomalies in the shallow subsurface to a depth of 1 foot below ground surface (bgs) at Site 15. The RI was conducted to determine whether surface MEC and/or material potentially presenting an explosive hazard (MPPEH) are present in areas of Site 15 that had not been previously surveyed during the 2008/2009 contaminated soil removal effort, and to determine whether surface MEC and/or MPPEH are present in areas that were most likely to have MEC and/or MPPEH (within and adjacent to the former ordnance disposal area, the former and skeet and trap range area, and along access roads to the ordnance disposal area). The term MPPEH is a DoD classification (2008) used to classify a munitions item prior to knowing the explosive safety status of the item and includes items that may potentially contain Material Documented as an Explosive Hazard (MDEH) or MDAS.

The MEC RI work was based on Department of Defense (DoD) and United States Environmental Protection Agency (USEPA) Guidance for Performing Response Actions on Military Ranges (2000), Navy Munitions Response Program Guidance (2005), Defense Environmental Restoration Program (DERP) Management Guidance (DoD, 2001), USEPA Guidance for Performing Site Inspections (1992), and applicable United States Army Corps of Engineers (USACE) guidance on ordnance and explosive response actions (2002, 2003a through f, and 2004).

The scope of this MEC RI report is to present and evaluate UXO detector-aided survey results from investigations at Site 15 and to evaluate the potential explosive safety hazards/risks to the public associated with Site 15. This qualitative assessment was based on historical information, 2008 and 2009 MEC support of contaminated soil removal, and the results of this MEC RI. A qualitative assessment was not conducted for MC because no chemical analytical data were warranted during the MEC RI.

1.3 REGULATORY FRAMEWORK

The regulatory process for managing Navy Munitions Response Program (MRP) sites is guided by a complex mixture of federal, state, and local laws, as well as DoD and Navy regulations and guidance. The key legislation, policy, and guidance directing the program includes, but is not limited to, the following:

- Navy Munitions Response Program Guidance (2005), which states that munitions response will be conducted “in accordance with, the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980 and the National Oil and Hazardous Substances Pollution Contingency Plan.”
- Management Guidance for the DERP (DoD, 2001). The history of the DERP dates back to the Superfund Amendments and Reauthorization Act (SARA) of 1986. The scope of the DERP is defined in 10 United States Code (U.S.C.) 2701(b), which states the following:

“Goals of the program shall include the following: (1) The identification, investigation, research and development, and cleanup of contamination from hazardous substances, and pollutants and contaminants. (2) Correction of other environmental damage (such as detection and disposal of unexploded ordnance) which creates an imminent and substantial endangerment to the public health or welfare or to the environment...”

The Fiscal Year (FY) 2002 National Defense Authorization Act (Sections 311 to 312) reinforced DoD's 2001 DERP Management Guidance by tasking the DoD to develop and maintain an inventory of defense sites that are known or suspected to contain MEC and Munitions Constituents (MC). Section 311 requires DoD to develop a protocol for prioritizing defense sites for response activities in consultation with states and tribes. Section 312 requires DoD to create a separate program element to ensure that DoD can identify and track munitions response funding. The 2001 Management Guidance for the DERP and National Defense Authorization Act of FY 2002, described here, established the MRP. The Navy baseline inventory of sites was completed in FY 2002 and was used to establish the sites/Areas of Concern (AOCs) where Preliminary Assessments (PAs) were needed to further evaluate the potential for MEC and MC.

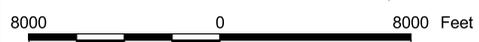
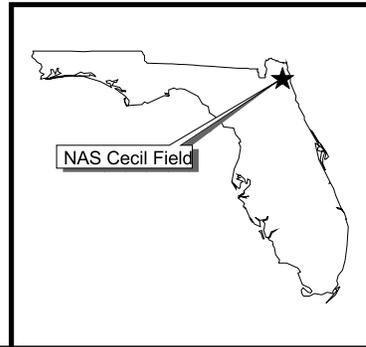
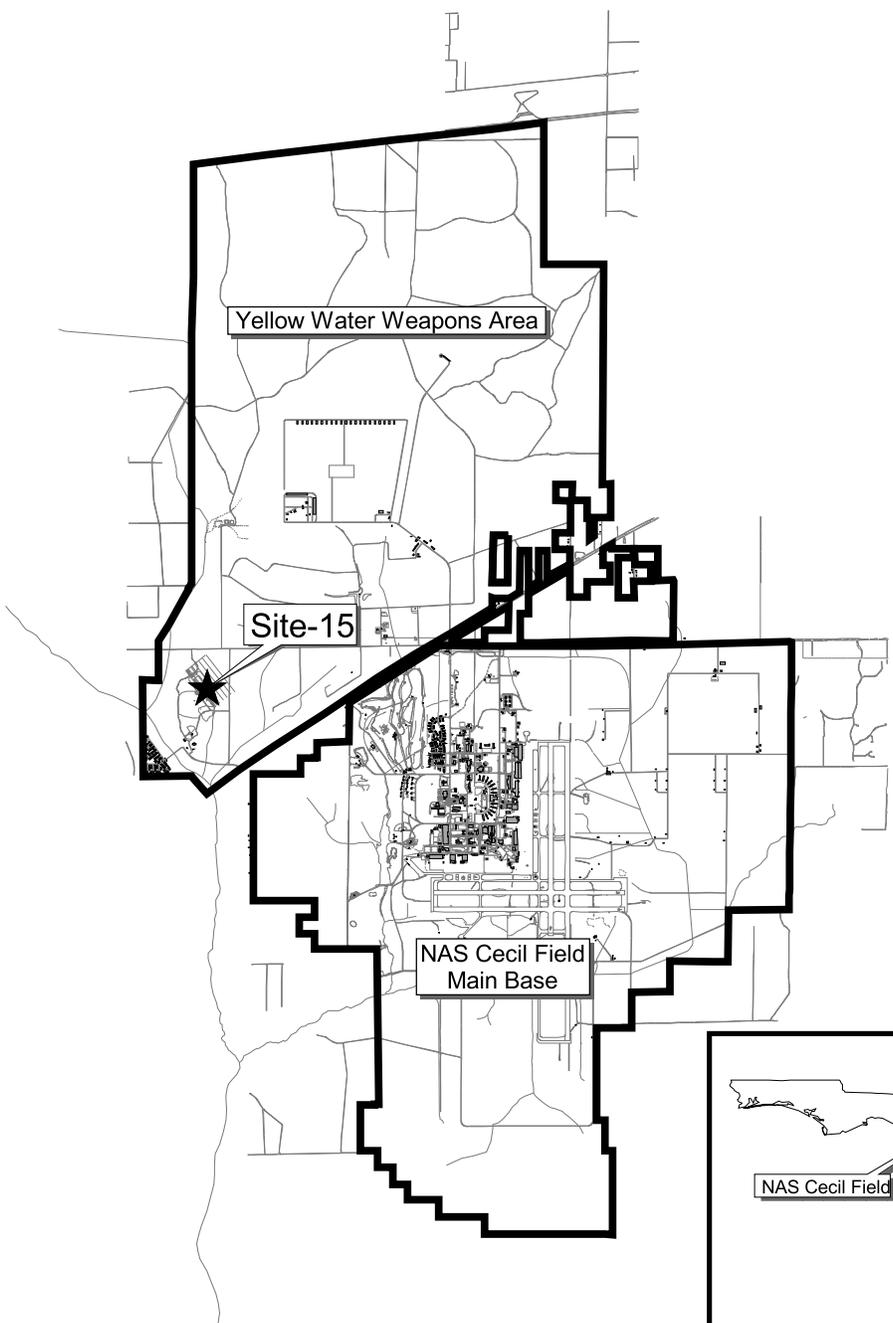
1.4 REPORT ORGANIZATION

The following information is contained in this document:

- **Section 1.0** discusses the purpose of the report, presents a brief MRS description and RI scope information.
- **Section 2.0** discusses the facility background and physical setting.
- **Section 3.0** discusses the site-specific background and physical /environmental characteristics
- **Section 4.0** discusses the general MEC RI methodology.
- **Section 5.0** discusses the Site 15 field investigation, data quality review, results, risk assessment, conclusions, and updated conceptual site model.
- **Section 6.0** presents the references used in preparation of this document.

The following appendices are included in this report and provide technical information compiled during the RI:

- **Appendix A:** Supplemental Historical Data
- **Appendix B:** Photographic Log
- **Appendix C:** UXO Detector-Aided Survey Field Forms
- **Appendix D:** MEC Data Usability Assessment



| | |
|--------------------|-----------------|
| DRAWN BY MJJ | DATE 20Jan10 |
| CHECKED BY | DATE |
| COST/SCHEDULE-AREA | |
| SCALE AS NOTED | |



GENERAL LOCATION MAP
 OPERABLE UNIT 5, SITE 15
 MEC REMEDIAL INVESTIGATION
 NAVAL AIR STATION CECIL FIELD
 JACKSONVILLE, FLORIDA

| | |
|---------------------------|----------|
| CONTRACT NUMBER 2267 | |
| APPROVED BY L. Klink | DATE |
| APPROVED BY | DATE |
| DRAWING NO. FIGURE 1-1 | REV 0 |

2.0 FACILITY BACKGROUND

2.1 HISTORY

NAS Cecil Field was established in 1941 and provided facilities, services, and material support for the operation and maintenance of Naval weapons, aircraft, and other units of the operation forces as designated by the Chief of Naval Operations. The Navy conducted various testing, training, and disposal activities related to military munitions at NAS Cecil Field. NAS Cecil Field was placed on the National Priorities List (NPL) by the USEPA in December 1989. A Federal Facility Agreement (FFA) was signed for NAS Cecil Field by the Navy, USEPA, and Florida Department of Environmental Protection (FDEP) in 1990. Pursuant to the FFA, the Navy has conducted RIs and response actions under CERCLA authority.

2.2 LOCATION

NAS Cecil Field (USEPA ID No. FL5 170 022 474) is located 14 miles southwest of Jacksonville, Florida. Figure 1-1 shows the general location of NAS Cecil Field. The majority of Cecil Field is located within Duval County, and the southernmost part of the facility is located in Clay County.

2.3 CURRENT LAND USE AND ANTICIPATED FUTURE LAND USE

NAS Cecil Field is subject to the Base Realignment and Closure (BRAC) Law of 1993. Since the closure of NAS Cecil Field in September 1999, most of the facility has been transferred to the Jacksonville Port Authority (now Jacksonville Aviation Authority) and the City of Jacksonville. According to the Jacksonville Economic Development Commission (JEDC) Reuse Plan for the former NAS Cecil Field, the facility will have multiple uses, but will be used primarily for aviation-related activities. The JEDC provides for future use of the facility as a natural and recreational corridor.

3.0 BACKGROUND AND PHYSICAL/ENVIRONMENTAL CHARACTERISTICS

3.1 SITE BACKGROUND

3.1.1 Site Location and Description

Site 15 - Blue 10 Ordnance Disposal Area, is located in the southwestern section of the Yellow Water Weapons Area (YWWA) of NAS Cecil Field. The entire site covers approximately 85 acres and is relatively flat. Site 15 was originally a skeet and trap range that operated from the early 1940s to the mid-1950s. The former skeet and trap range was approximately 55 acres (1,000 feet by 2,400 feet) in size, with the long axis of the range complex being parallel to and east of the existing access road (see [Figure 3-1](#)). Site 15 was also used for ordnance disposal from the 1960s to 1977, with disposal consisting of burning of ordnance materials in a large metal burn chamber and static firing of rockets. The ordnance disposal structures were located west of the skeet and trap ranges.

Until 2008, the ordnance burn chamber and static rocket firing pad located in the north-central portion of the site were the only structures related to historical activities that remained at the site. The burn chamber was a rounded, steel, tank-like container approximately 10 feet in length and 4 feet in height. The static rocket firing pad was an L-shaped concrete structure approximately 10 feet long by 4 feet wide by 6 feet high. The burn chamber and firing pad were removed in 2008 as part of contaminated soil removal remedial activities. Several concrete building foundations (remnants of buildings that supported skeet range and trap range activities) located in the area surrounding the burn chamber and firing pad were also removed in 2008.

3.1.2 Munitions-Related Training, Storage, and Usage

Site 15 was originally a skeet and trap range that operated from the early 1940s to the mid 1950s, and the site was used for ordnance disposal from the 1960s to 1977. From the mid-1960s through 1977, disposal consisting of burning of ordnance materials in a large metal chamber and static firing of rockets was conducted at Site 15. The majority of disposed ordnance at the site was burned and included small arms munitions up to 20 millimeters (mm) in size, parachute and distress flares, Mark IV signal cartridges, rocket igniters, cartridge activated devices, and 2.75-inch and 5-inch rockets. Rocket propellant also was reportedly placed on the ground and ignited in the area of the burn chamber. Rocket motors were disposed of by static firing of both 2.75-inch and 5-inch rockets from a firing pad located south of the burn chamber. An estimated 2.5 tons of ordnance were disposed of at the site each month. Overall, an estimated 350 tons of ordnance were disposed of at the site while it was in operation.

3.1.3 Previous Investigations

In the 1980s, environmental investigations were initiated that included soil, groundwater, sediment, and surface water sampling. Following an RI, which focused only on chemical contamination and not MEC, polynuclear aromatic hydrocarbon (PAHs), metals (arsenic and lead), and total recoverable petroleum hydrocarbons (TRPH) soil contamination were identified that required remediation, a ROD for OU 5, Site 15, was signed in June 2008 documenting selection of a remedy to address these chemical contaminants (Tetra Tech, 2008). The areas of contamination at Site 15 were associated with the ordnance disposal area and old skeet and trap range. Chemical contamination was found associated with these sources as well as forest burn activities. Remedial activities were conducted in 2008 and 2009 in accordance with the ROD and included contaminated soil excavation (from 1.5 to 3.5 feet bgs) in 17 areas (A through Q), with concentrations in excess of cleanup goals, on-site solidification/stabilization of lead-contaminated soil, and off-site treatment and disposal of contaminated soil to allow low-intensity recreational reuse of the site (AGVIQ-CH2MHill, 2009). Chemical contamination at Site 15 has been addressed through the remedy (Tetra Tech, 2009b). The chemical contamination investigation had included munitions contaminants of concern, except for nitroglycerin. Although nitroglycerin (propellant) was not investigated, soil in the potential area of concern was removed in the 2008/2009 soil removal effort from the area where propellants were expected near the former burn chamber (reportedly, rocket propellant was placed on the ground, ignited, and presumed to be consumed). The burn chamber, firing pad, and several concrete building foundations (remnants of buildings that supported skeet range and trap range activities), located in the area surrounding the burn chamber and firing pad, were removed in 2008.

Because historical activities at Site 15 included munitions operations and based on the findings of an MEC PA/Site Investigation (SI) conducted in 2007 by CH2MHill, MEC removal was determined to be necessary before the 2008/2009 soil remedial action could proceed. MEC and MDAS were located during a munitions survey and were removed from the excavation areas before soil excavation operations commenced. To support the effort as part of the removal action, tree and vegetation clearance were conducted in portions of the site prior to soil excavation. Note that the MD terminology in effect at the time of the remediation has since been replaced with material documented as safe (MDAS).

The MEC-related remedial action activities related to contaminated soil removal are discussed in the Remedial Action Completion Report for Soil Remedial Activities (AGVIQ-Ch2MHill, 2009). The MEC related activities included subdivision of Site 15 through land survey into 100-foot by 100-foot grid cells, vegetation removal, MEC surface clearance, digital geophysical mapping (DGM) with EM61-MK2 time-domain metal detection and DGM target anomaly identification, manual and mechanically-aided intrusive

investigation of DGM target anomalies, and demolition of MEC items found in 114 grids (22 acres). The MEC/MPPEH clearance included 100-percent clearance of the select grids where contaminated soil was to be excavated. [Appendix A](#) provides figures showing the grids with vegetation removal and the results of the munitions clearance for those grids where munitions clearance was conducted. The munitions survey included a geophysical prove-out (GPO) for testing of equipment and personnel and other appropriate quality control (QC), as discussed further in the Remedial Action Completion Report - Soil Removal Action (AGVIQ-CH2MHill, 2009).

[Table 3-1](#) provides a summary of the MEC items identified and removed during the clearance activities. All of the MEC items were encountered in and around the former ordnance disposal area. Additionally, numerous MDAS items were encountered that were located in and around the ordnance disposal area, in the former skeet and trap range area, and along access roads to the ordnance disposal area. This evaluation was made during the preparation of the Uniform Federal Policy Sampling and Analysis Plan (UFP-SAP) for the subject MEC RI (Tetra Tech, 2010) in developing the conceptual site model (CSM), when overlapping site feature maps with grid maps, and was not previously detailed because the purpose of the previous MEC removal effort was solely to support contaminated soil removal. Additional details on the items found and removed are provided in [Appendix A](#). It appeared that the areas containing MEC and MDAS at Site 15 were associated with the ordnance disposal area and cleared or accessible areas (e.g., former skeet and trap ranges and access roadways) where disposal associated with ordnance operations occurred. [Table 3-2](#) provides a summary of the munitions items by general location for the MEC RI based on the MEC pre-RI CSM. Additional details on MEC as well as MDAS encountered during the soil excavations are provided in [Appendix A](#).

3.1.4 Current Land Use and Anticipated Future Land Use

Site 15 is currently not used and is a controlled area accessible only through access gates. The JEDC Reuse Plan provides for future use of the site as a natural and recreational corridor. In accordance with the ROD, the LUC Remedial Design (RD), prepared by Tetra Tech in 2009, allows for low-intensity recreational uses including activities such as hiking, biking, horseback riding, birding, and hunting. Medium- (picnicking and camping) and high-intensity (children's playgrounds and contact sports) recreational, residential, and commercial/industrial uses are not permitted. No man-made attractions can be provided that would entice people, particularly small children, to frequently visit the site, which is consistent with the property's proposed reuse as a natural resource corridor. LUCs also prohibit excavation of soil from Site 15 without prior written approval from the Navy, USEPA, and FDEP (Tetra Tech, 2009a). [Figure 3-1](#) provides the general arrangement of Site 15 and controlled land use parcel boundaries.

3.2 PHYSICAL/ENVIRONMENTAL CHARACTERISTICS

The following section provides information presented in documents prepared to support previous site investigations, including climate, topography, geology, soil and vegetation types, hydrology, hydrogeology, cultural and natural resources, and threatened, endangered, and protected species.

3.2.1 Climate

The climate in Jacksonville, Florida, is humid subtropical. From 1971 through 2000, the mean annual rainfall was approximately 52 inches, and the mean annual temperature was 68 degrees Fahrenheit. Most of the annual rainfall occurs in the late spring/early summer, and winters are generally mild and dry.

3.2.2 Site Topography

Overall, Site 15 is flat (ABB Environmental Services [ABB-ES], 1997) and much of the area is swampy throughout the year, with sections of the area under water for parts of the year. Land surface elevations range from approximately 72 to 80 feet National Geodetic Vertical Datum (NGVD) at Site 15.

3.2.3 Site Geology

Site 15 is underlain by undifferentiated fine-grained sand, and lenses and stringers of silty or clayey material may be encountered intermittently. The stringers are generally less than 1 inch thick and are not continuous. Lithologic descriptions recorded during monitoring well installation at OU 5 indicate that sand is present at each of the monitoring well locations from ground surface to the total depth, a maximum of 14 feet bgs (ABB-ES, 1997).

Cross sections showing Site 15 lithology were not generated during the RI for chemical contamination nor prepared as part of this MEC RI because of the homogenous lithology and shallow depth to groundwater and because MEC RI activities were non-intrusive. [Appendix A](#) provides information on site lithology from the Site 15 monitoring well boring log provided in the RI Report for chemical contamination, along with the location of the site monitoring well.

3.2.4 Site Soil and Vegetation Types

Three soil types cover Site 15 in nearly equal percentages, the Olustee Fine Sand, Leon Fine Sand, and Ridgeland Fine Sand. Each of the three soil types is described as a nearly level poorly drained soil found

in broad flatwood areas. Natural vegetation on these soil types consists predominantly of oak, pine, and saw palmetto. Depth to groundwater is very shallow in these soil types, and permeability through the upper 6 inches is moderate to rapid.

Several forest fires have occurred in an area of stressed vegetation, referred to as the forest burn area, in the southwestern portion of the site (see [Figure 3-1](#)). Several slash pines are partially burned in this area. Controlled burns were commonly undertaken in this area to manage understory growth in the planted pine forest. The latest controlled burning event took place in spring 1999 (AGVIQ-CH2MHill, 2009).

Before remedial activities to remove contaminated soil, which necessitated vegetation clearance over a large portion of the site, the entire area was heavily forested. Currently, outside of the area where vegetation was removed as part of the 2008/2009 remedial action, the site remains heavily forested, primarily with slash pine and understory vegetation ([Appendix B](#)). The site also includes low shrub and brushland vegetation, particularly in areas where vegetation was removed in 2008 ([Appendix B](#)). Areas previously excavated for contaminated soil removal are now readily visible due to lack of vegetation, as sandy areas due to backfill with clean sandy soil. Some minor stands of trees remain between the areas cleared of vegetation. Trees are also sparser in the areas where controlled forest burns were formerly conducted.

3.2.5 Site Hydrology

Surface drainage is limited because only two drainage pathways (ditches) intersect the general area of the site, although they are located outside the area of excavation. Flow through the drainage ditches is intermittent, depending on rainfall, and ultimately the ditches drain into Yellow Water Creek located southwest of Site 15.

3.2.6 Regional and Site Hydrogeology

Three water-bearing systems are present beneath Site 15, including in descending order, the surficial aquifer system, intermediate aquifer and confining units, and Floridian Aquifer system. Only the surficial aquifer was investigated at Site 15 during the RI for chemical contamination. It was surmised that any releases to groundwater would be most pronounced in the surficial aquifer. The surficial aquifer at Site 15 is composed predominantly of sand from the ground surface to an approximate depth of 66 feet bgs. The water table is unconfined beneath the site and ranges between 1 and 4 feet bgs during the year, depending on rainfall events.

3.3 ECOLOGICAL SUMMARY

3.3.1 Endangered and Special Status Species

The gopher tortoise, considered as threatened by the Florida Committee on Rare and Endangered Plants and Animals (FCREPA), was identified at Site 15. As part of the Site 15 remedial action for soil contamination, gopher tortoise burrows were identified in the planned soil excavation areas and the gopher tortoises were relocated to an area west of the main area cleared of vegetation (AGVIQ-CH2MHill, 2009). In addition, the indigo snake is considered a special status species (protected as threatened under the Endangered Species Act and by the State of Florida), and a protection plan was put in place by NAS Cecil Field.

3.3.2 Wetlands

Six wetland areas are present that cover a combined area of approximately 4.6 acres (Tetra Tech, 2008) ([Figure 3-1](#)).

3.3.3 Cultural and Natural Resources

No existing cultural resources were identified for Site 15. As presented in the ROD, the JEDC Reuse Plan provides for future use of Site 15 as a natural and recreation corridor, and the remedy for Site 15 was selected to allow for the planned future use (Tetra Tech, 2008).

TABLE 3-1

**MEC IDENTIFIED AND REMOVED
IN SUPPORT OF THE 2008-2009 CONTAMINATED SOIL REMOVAL
OU 5, SITE 15 - BLUE 10 ORDNANCE DISPOSAL AREA
NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA**

| Grid¹ | MEC items found² | Surface or Subsurface³ |
|-------------------------|--|--|
| A2J8 | One 20 mm TP Projectiles Full Up | Subsurface |
| A3H3 | One 20 mm TP Projectiles Full Up | Surface |
| A3H4 | One M204 Practice Mine Fuze | Subsurface |
| A3I3 | Six M204 Practice Mine Fuzes | Subsurface |
| A3J3 | Two M204 Practice Mine Fuzes | Subsurface |
| B2A7 | Two M204 Practice Mine Fuzes and one M112 Photoflash Cartridge | Subsurface |
| B2A8 | One M208 20 mm TP | Surface |
| B2A9 | Two 20 mm TP Projectiles Full Up | Subsurface |
| B2C0 | Three M204 Practice Mine Fuzes | Subsurface |
| B2C6 | One 20 mm Projectile HE | Subsurface |
| B3A1 | One Aircraft Launched Flare | Surface |
| B3B1 | Two Mk4 Spotting Charges | Subsurface |
| B3B2 | One M204 Practice Mine Fuze | Subsurface |
| B3B3 | Two M204 Practice Mine Fuzes | Subsurface |
| B3C1 | One BLU – 26/B Submunition Inert Bomblet | Subsurface |
| B3D3 | One M204 Practice Mine Fuze | Subsurface |

1 Grids are shown on [Figure 5-1](#).

2 Items identified and removed as reported in AGVIQ-CH2MHill, August 2009. Remedial Action Completion Report – Soil Removal Action for OU 5, Site 15, Blue 10 Ordnance Disposal Area

3 Surface indicates the item was found on the ground surface. Subsurface indicates the item was found below the ground surface.

MDAS = Material Documented as Safe, formerly referenced to as Munitions Debris (MD)

TP = Target Practice

HE – High Explosive

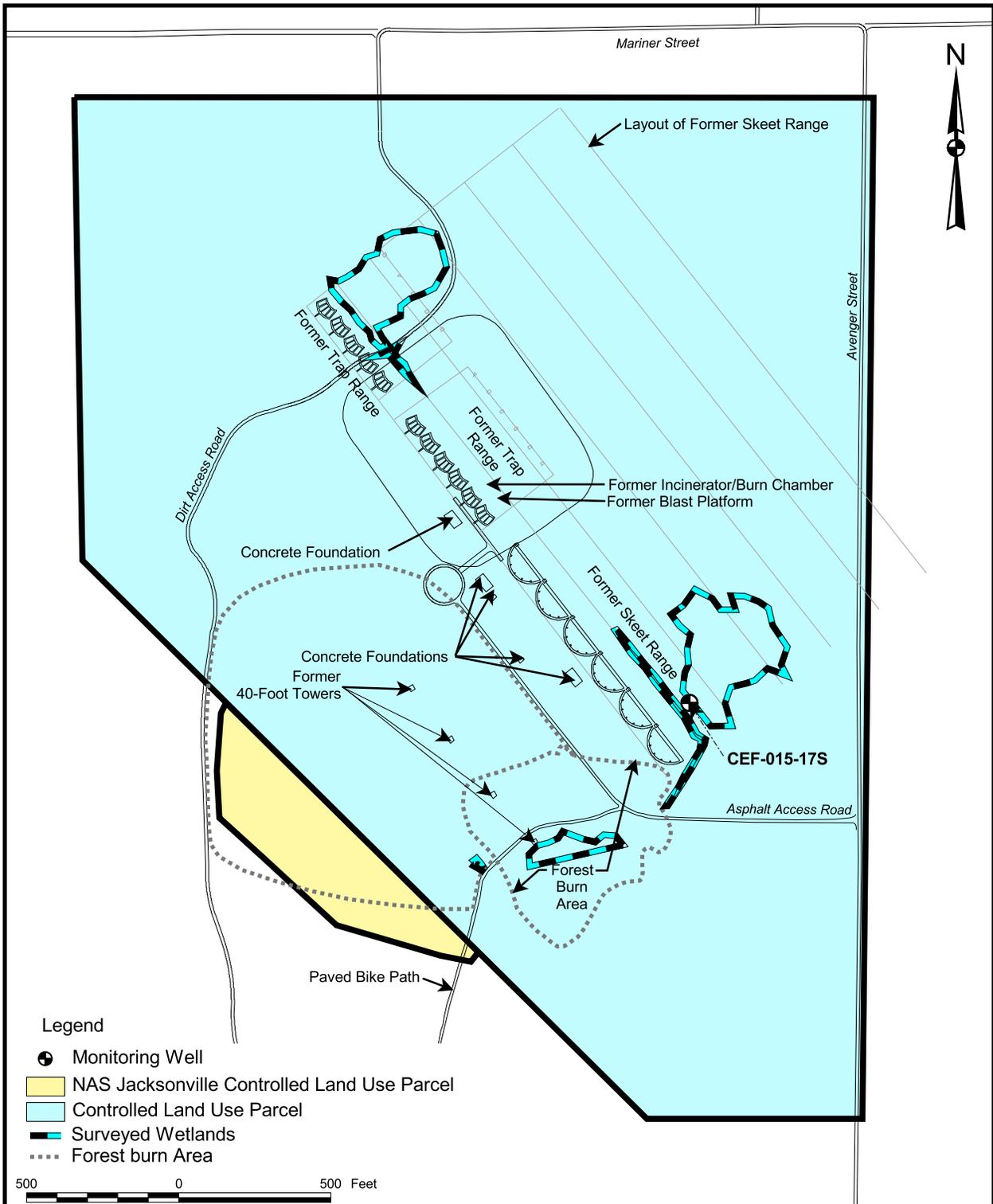
BLU = Bomb Line Unit

TABLE 3-2

PRE-MEC RI SUMMARY OF MUNITIONS ITEMS CONCERNS
 OU 5, SITE 15 - BLUE 10 ORDNANCE DISPOSAL AREA
 NAVAL AIR STATION CECIL FIELD
 JACKSONVILLE, FLORIDA

| MEC Area of Concern | Munitions Items | | | Estimated Dates of Operation and Notes |
|---|---------------------------------------|-------------------------|-----------|---|
| | Type | Observed ⁽¹⁾ | Potential | |
| Skeet and Trap Range Areas | MDAS [MD] ⁽²⁾ | √ | √ | - 1940s to 1950s. - Area 1,000 feet by 2,400 feet. - MDAS [MD] likely associated with ordnance disposal operations that took place within the footprint of the former range complex |
| Ordnance Disposal Area - Burn Chamber - Static Firing Pad - Historical operational area outline | MEC items/ MDAS[MD] ⁽²⁾ | √ | √ | - Mid-1960s to 1977. - MEC and MDAS [MD] were found in and adjacent to the area identified as the Ordnance Disposal Area. |
| Miscellaneous Disposal along Access Roads | MDAS [MD] ⁽²⁾ | √ | √ | - Unknown dates; assumed to be mid-1960s to 1977 for Ordnance Disposal Area. - MDAS [MD] likely present due to easy accessibility and disposal of treated munitions items from the burn chamber and static firing pad. |

- 1 MEC and MDAS [MD] were observed and removed as a safety measure from those areas that were included in the 2008 munitions survey conducted prior to the 2008/2009 soil remediation effort: [Figure 5-1](#) indicates the results of the munitions survey and areas where MEC and/or MDAS were found and removed or where no MEC or MDAS [MD] were found.
- 2 MEC found included practice mine fuzes, target practice projectiles, and photoflash cartridges. MDAS found included cartridge and flare cases, banding pieces, flare canisters, small arms, and a shotgun primer (see table in [Appendix A](#)).



| | | | | | |
|--------------------|-------------------|---|--|----------|-------------------------|
| DRAWN BY MJJ | DATE 20Jan10 |  | GENERAL SITE ARRANGEMENT OPERABLE UNIT 5, SITE 15 MEC REMEDIAL INVESTIGATION NAVAL AIR STATION CECIL FIELD JACKSONVILLE, FLORIDA | | CONTRACT NUMBER 2267 |
| CHECKED BY | DATE | | APPROVED BY L. Klink | DATE | APPROVED BY DATE |
| COST/SCHEDULE-AREA | SCALE AS NOTED | | DRAWING NO. FIGURE 3-1 | REV 0 | |
| | | | | | |

4.0 MEC RI GENERAL METHODOLOGY

4.1 REMEDIAL INVESTIGATION APPROACH

The approach for the MEC RI included a visual survey and UXO detector-aided survey to locate metallic items on the surface and anomalies in the shallow subsurface that could be suspect MEC, MPPEH, or non-munitions-related debris. All field activities were performed in accordance with the UFP-SAP (Tetra Tech, 2010).

4.2 SITE PREPARATION AND MOBILIZATION ACTIVITIES

All preliminary activities such as obtaining authorizations and site access were completed in accordance with the UFP-SAP (Tetra Tech, 2010). Following approval of the UFP-SAP, the field team members reviewed the approved UFP-SAP, associated appendices, and Health and Safety Plan (HASP) prior to the start of project activities. The signed project personnel sign-off sheets are included in [Appendix C](#).

4.2.1 Request for ESS Determination and NOSSA Concurrence Notification

An Explosives Safety Submission (ESS) Determination Request was submitted to the Naval Ordnance Safety and Security Activity (NOSSA) in accordance with NOSSA Instruction (NOSSAINST) 8020.15B, Explosives Safety Review, Oversight, and Verification of Munitions Responses (January 26, 2009) and NAVSEA OP 5 Revision 7 (Naval Sea Systems Command, 2003). NOSSA determined that an ESS was not required to conduct the Site 15 MEC RI because anomaly avoidance techniques were to be employed during the RI and that any identified MEC or MPPEH were to be reported to the Navy. The ESS Determination, provided in the UFP-SAP (Tetra Tech, 2010), is also included in [Appendix C](#).

4.2.2 Permitting

Permits were not required for the work conducted during this RI.

4.2.3 Mobilization

Tetra Tech UXO personnel mobilized to NAS Cecil Field on April 27, 2010, to initiate the MEC investigation. The Senior Unexploded Ordnance Supervisor (SUXOS) held a field team orientation meeting to ensure that personnel were familiar with the scope of field activities.

4.2.4 Site Accessibility and Traffic Control

OU 5, Site 15, is a controlled area accessible only through an access gate. For Site 15 access, the Florida Forestry and Florida State College at Jacksonville, Cecil Center North were contacted.

Safety protocol required that an active exclusion zone be established at the site and maintained before any MEC activities occurred due to the potential for encountering explosively configured/fuzed munitions. For this project, the exclusion zone was established at a minimum of 200 feet from the edge of the MEC investigation area. If non-site personnel or non-essential non-UXO personnel entered an exclusion zone, all MEC operations ceased until the exclusion zone was re-established.

Both routine and emergency response actions dictated the need for prevention of unauthorized site access and for the protection of vital records and equipment. All equipment was brought to a designated secure location each day.

Site Security

Site security was maintained to ensure that non-essential personnel did not access the exclusion zone during the UXO detector-aided survey or other UXO avoidance operations at the site. Barricades were positioned on access routes a minimum of 200 feet from the edge of the investigation site. Notification procedures were posted on the barricades to ensure that non-essential personnel notified the team working in the area prior to entering the area during active operations. Barricades were removed when operations were completed for the day.

4.2.5 Utility Clearance

Utility clearances were not necessary for this project because intrusive investigations were not being conducted and the Instrument Verification System (IVS) was located in an area known to be free of utilities. Additionally, blind seed items were placed into the duff (partly decayed organic matter covering areas of the site) into which digging was not necessary.

4.2.6 Vegetation Management

Vegetation management was performed in accordance with Standard Operating Procedure (SOP) MRP SOP 06 provided in Appendix D of the UFP-SAP (Tetra Tech, 2010). Pre-survey brush clearing (3- to 5-foot-wide paths) to allow for data collection along transects was conducted by Tetra Tech staff as needed across the site. Brush cutting and mowing of grass were required to prepare the site for detector-

aided survey because brush and grass present would otherwise impede the positioning of the metal detectors in close proximity to the ground surface. Hand-held weed cutters were used to clear light vegetation and small grassy areas. Brush/vegetation cuttings were left at the site at the edges of the cleared areas.

4.3 MEC RI METHODS

4.3.1 Geophysical System Verification

4.3.1.1 Scope and Objectives

The Geophysical System Verification (GSV) consisted of two components, the IVS and placement of blind seeds. IVS surveys were performed for QC purposes, prior to beginning a detector-aided survey to evaluate equipment, techniques, and personnel to be used at Site 15, and only personnel who had been tested on the IVS performed detector-aided survey work. The IVS survey area was constructed within the same survey grid as the 2008 GPO.

The specific objectives for the IVS were as follows:

- Demonstrate that the detector-aided investigation systems and navigational equipment were operating properly.
- Provide a safe instrument test area with a known set of intentionally-placed metallic test objects (e.g., inert munitions or munitions surrogates) similar in size, shape, and mass to MEC/MPPEH items suspected at the site.
- Evaluate detection depth capabilities.

Blind seed items were placed in the duff along transects during the detector-aided survey process as an additional QC check of surface clearance techniques, equipment, and personnel.

4.3.1.2 Equipment and Methodology

All activities involving work in areas potentially containing MEC hazards were conducted in full compliance with the UFP-SAP regarding personnel, equipment, and procedures (Tetra Tech, 2010). Specifically, the UXO detector-aided survey was performed in accordance with MRP SOP 01 provided in Appendix D of the UFP-SAP (Tetra Tech, 2010) using Schonstedt Ga-52Cx and White's Spectrum XLT.

The size and orientation of the target and the characteristics of the soil in the work area limited the detection depth of the metal detectors used by the UXO team during the detector-aided survey. Metal detectors provide an audio signal for response but do not store data. The Schonstedt Ga-52Cx magnetic locator (magnetic gradiometer) does not need to be calibrated, but the all-metals detector requires field calibration specific to the make and model of the detector. The standard setting for the Schonstedt Ga-52Cx magnetic locator instrument is 2; setting the instrument to 3 or 4 would make the instrument more sensitive, and setting the instrument to 1 would make the instrument less sensitive. Increased sensitivity may increase responses from background magnetic noise and could mask responses from MEC or MPPEH. The Schonstedt Ga-52Cx instrument cannot detect non-ferrous munitions such as those made of copper, brass, or aluminum. Standard settings for the White's Spectrum XLT when used during MEC surveying operations are included in Tetra Tech MRP SOP 01 (UXO Detector-Aided Surface Surveys).

The Out-of-the-Box Tests were conducted prior to commencement of MEC RI field work and at the start of each day of surveying. Inventory and inspection of all equipment was conducted to confirm that all components were present and in good condition and included assembly and powering of the equipment. To ensure that the magnetic locator was operating properly, the operator turned on the instrument and slowly moved the locator toward metal to ensure that the detector was operating properly. The audio signal increases as the probe advanced toward the target. Failure to detect the object was reason to reject the instrument. The detector was checked at the beginning and end of each day and after any battery change. There were no issues encountered with the Out-of-the-Box tests for this MEC RI.

4.3.1.3 IVS Field Procedures and Results

An IVS was used to ensure that UXO detector-aided survey detection instruments were operating properly to assess the shallow subsurface. Tetra Tech UXO Quality Control Specialist (UXOQCS) seeded the IVS with four inert and/or surrogate items listed below and buried them 10 feet apart in accordance with the MEC RI UFP-SAP (Tetra Tech, 2010) to represent the MEC items expected to be found on the site and to test their detection by each operator and respective instrument ([Appendix B](#)). The IVS Location Design Checklist is provided in [Appendix C](#).

| Item and Burial Depth | Material | Burial Depth | Orientation |
|--|-------------|--------------|-------------|
| Small 1-Inch diameter, 4-inch long steel pipe | Ferrous | 6 inches | Horizontal |
| Small 1-Inch diameter, 4-inch long aluminum pipe | Non-ferrous | 6 inches | Horizontal |
| Small 1-Inch diameter, 4-inch long steel pipe | Ferrous | 12 inches | Horizontal |
| Small 1-Inch diameter, 4-inch long aluminum pipe | Non-Ferrous | 12 inches | Horizontal |

The UXO detector-aided survey field crew performed a survey over the IVS once prior to surveying transects and after each battery, equipment, or personnel change. All field personnel performed the IVS survey, and no equipment issues were noted by the UXOQCS for the Schonstedt Ga-52Cx or White's Spectrum XLT. Approval to begin survey work at the site was given by the UXOQCS upon observation of the UXO survey crew successfully performing a survey over the IVS.

4.3.1.4 Blind Seed Field Procedures and Results

To ensure that UXO detector-aided survey detection instruments were operating properly to assess the surface, blind seed items were placed on the surface into the duff, or if duff was not present, covered with duff from another location, at locations within each transect prior to surface survey operations. In accordance with the MEC RI UFP-SAP, a minimum of two and a maximum of five blind seed items were placed along a transect daily by the UXOQCS, prior to the detector-aided surface survey. According to the Daily QC Logs, one blind seed item was not detected on Transect J between Section 5 and 6 during the initial survey. As a corrective action, the problem transect was resurveyed and all blind seed items were successfully detected. Therefore, the QC requirements specified in Worksheet 12 of the MEC RI UFP-SAP (Tetra Tech, 2010) were met.

4.3.1.5 Navigation Equipment Field Procedures and Results

A Trimble®GeoXHTM with sub-meter accuracy was used to collect Global Positioning System (GPS) data in North America Datum (NAD) 83 Florida State Plane coordinates in US survey feet to provide precise location coordinates. The GPS unit, which does not require calibration, was set up according to manufacturers' recommendations, and operator performance was tested at specified intervals (at the start of the project and daily, once at the beginning and once towards the end of each day) to determine if acceptance criteria specified in the MEC RI UFP-SAP were met. All appropriate acceptance criteria were met for this project in accordance with MRP SOP 05 provided in the UFP-SAP (Tetra Tech, 2010).

The GPS unit was tested by surveying several survey control points and comparing the GPS coordinates to the documented coordinates for the control points. GPS survey instruments were also closely monitored during field acquisition by using horizontal dilution of precision (HDOP) criteria, or at a

minimum, the number of satellite signals being received. If GPS accuracy was not sub-meter, data were not collected until more satellites were available and the minimum accuracy criteria were met, or surveying with tape measure and compass were employed.

For this MEC RI project, transects in locations with open views of the sky (no tree canopy or limited tree cover) were located using a GPS, and the remainder of transects was tied to these locations using a compass and tape measure technique.

4.3.1.6 Quality Assurance/Quality Control

The SUXOS and UXOQCS completed the IVS, blind seed placement, and other daily QC documentation, provided in [Appendix C](#). The SUXOS and/or UXOQCS conducted QC surveillance of various project activities such as mobilization and site preparation, vegetation management, UXO detector-aided surface survey and QC checks, setup of the IVS test grids, and blind seed placement.

The UXOQCS resurveyed 25 percent of the first four transects and 10 percent of the remaining transects to ensure that all metallic debris 20 mm or larger on the surface was detected. All personnel performed the RI tasks safely, and the detector-aided surface survey passed the QC tests with acceptable results ([Appendix C](#)).

4.3.2 UXO Detector-Aided Survey

4.3.2.1 Personnel

The UXO detector-aided survey was managed and performed by a qualified UXO Technician (II or higher) from Tetra Tech with oversight from a qualified UXO Manager, UXO safety officer (UXOSO), and/or UXOQCS from Tetra Tech meeting the requirements stated in DoD Explosive Safety Board (DDESB) Technical Paper (TP) 18 (2004).

4.3.2.2 General Methodology

The identification, documentation, and resolution of identified MPPEH and subsurface anomalies were conducted in accordance with the UFP-SAP (Tetra Tech, 2010). A Schonstedt GA-52Cx magnetic locator was used as the primary survey instrument. In addition to the Schonstedt Ga-52Cx, the White's Spectrum XLT all-metals detector was used to assist in the location of metal targets with little or no ferrous content. The equipment was tested during the IVS as detailed in [Section 4.3.1.2](#).

Transects at were established at Site 15 with a survey width of approximately 5 feet and transect spacing of approximately 100 feet. Metal detectors aided in locating metallic debris during the detector-aided survey. Suspect MPPEH or non-munitions-related debris was encountered on the ground surface along transects were flagged and recorded using a GPS or other means. The UXO team attempted to identify each MPPEH item and determine its condition without moving or disturbing the item prior to proceeding with the surface survey. The UXO team practiced anomaly avoidance and did not move or otherwise disturb items in an attempt to collect information in accordance with the ESS determination ([Appendix C](#)). All items discovered during the detector-aided survey were left in place.

The established LUCs were concerned with the expected vertical depth for exposure, based on permitted land use (low-intensity recreational activities). However, because of potential erosion or other changes to the ground, a buffer of an additional six inches is warranted, resulting in a total vertical depth of 1.0 feet bgs as the depth of concern. Therefore, because only the shallow subsurface was of concern, a limited investigation depth of the detector-aided survey was sufficient for the interval of concern. To assess subsurface anomalies, for each 100-foot long transect segment, the field team quantified and classified the number of subsurface anomalies as none, low (1 to 5), medium (5 to 20), or high (greater than 20). The classification divisions were agreed upon by the Project Team, as presented in the SAP. Data were recorded in the UXO team logbook and on project log sheets. Site-specific summaries of subsurface anomalies, MPPEH and associated location coordinates are included in [Section 5.0](#) and in field documentation included in [Appendix C](#).

Establishing Boundaries and Investigation Areas

Transects were established at Site 15, and transect locations were pre-loaded onto a Trimble®GeoXHTM hand-held GPS unit. Transects were aligned with the grid system developed during the 2008/2009 soil remediation effort. Transects were established using wooden survey stakes to mark start and end points, and polyvinyl chloride (PVC) pin flags were used to mark the path of the transect. Transect start- and end-points were labeled using the system identified in the UFP-SAP (Tetra Tech, 2010). Flags were placed along the path of each transect to act as fiduciary markers for survey operations.

Transect Survey

Survey data were collected along survey transects primarily using 100-foot spacing. Initial survey transect locations were predetermined in the UFP-SAP, along with additional contingency step-out transects. Transects established using a GPS with pre-loaded coordinate waypoints and navigation information guided the field crew on a generally straight path, avoiding obstacles such as heavy brush,

wetlands, and trees, from the start to the end point of each transect. A UXO detector-aided survey was then performed along the length of each transect. The survey was accomplished by walking the centerline of a transect while moving the hand-held magnetic locator back and forth, perpendicular to the path of the transect, until a survey width of approximately 5 feet was achieved. UXO detector-aided survey of each transect was performed in accordance with MRP SOP 01 (UXO Detector-Aided Surface Surveys), and any MPPEH identified was managed in accordance with MRP SOP 02 (MEC Management and Accountability), both provided in the UFP-SAP (Tetra Tech, 2010).

4.3.2.3 MEC and MPPEH Management and Accountability

No MEC were identified during this MEC RI. MPPEH management and accountability procedures were conducted in accordance with MRP SOP 02 (MEC Management and Accountability) provided in the UFP-SAP (Tetra Tech, 2010). MPPEH identified during the UXO detector-aided survey was first marked with two pin flags that placed forming an "X" to distinguish suspect items from flags marking transects. The location of each suspect item was recorded using a GPS unit, and each item was given a unique site identifier and item number. All available information about each item was recorded in the site logbook/MEC Tracking Log, and a digital photograph was taken of each item.

MPPEH suspected to be MEC was immediately reported and a response coordinated in accordance with detailed procedures in the UFP-SAP (Tetra Tech, 2010). However, none such items were encountered. Every effort was made to identify each item, and only UXO-qualified personnel performed identification procedures. In accordance with the ESS Determination, under no circumstance was any MPPEH moved in an attempt to make a definitive identification or explosive safety status determination. MPPEH was visually examined for markings and other external features such as shape, size, and external fittings. Identification also included documentation of fuze type by function (armed or unarmed) and the physical state/condition of the fuze (i.e., burned, broken, parts exposed/sheared, etc.). For each item, the following information was documented for notification purposes and is presented in [Section 5.0](#) of this report:

- Site name
- Date/time encountered
- Location of item (coordinates)
- Type of item (documented by a digital photograph)
- Apparent fuze condition (armed or unarmed)
- Physical condition (burned, broken, parts exposed/sheared, etc.)

- Physical appearance (buried, staged, etc.)
- Activity in progress when item was encountered

Visual observations in the field provided sufficient information for the UXO team to initially classify surface munitions finds as suspected MEC or MPPEH. The term MPPEH is a DoD classification (2008) used to classify a munitions item prior to knowing the explosive safety status of the item and includes items that may potentially contain Material Documented as an Explosive Hazard (MDEH) or MDAS. No MEC was found on site and the actual explosive safety status of MPPEH will not be known until the item is further assessed by physical inspection, following the completion of an ESS (and a UFP-SAP), during the next phase of investigation, which will be identified as a Supplemental MEC RI.

4.3.2.4 Quality Assurance/Quality Control

All UXO survey and avoidance activities were carried out in compliance with the UFP-SAP (Tetra Tech, 2010), all local, state, and federal regulations, and general guidance from applicable USACE DID requirements including Engineer Pamphlet EP-75-1-2 (2004), DID MR-001 (2003a), MR-005-02 (2003b), MR-005-05A (2003c), MR 005-05 (2003d), and MR-005-07 (2003e), as well as additional guidance provided in Ordnance and Explosives Digital Geophysical Mapping Guidance – Operational Procedures and Quality Control Manual (DGM QC Guidance) (USACE, 2003f). Activities involving work in areas potentially containing MEC hazards were conducted in full compliance with Department of the Navy and DoD requirements regarding personnel, equipment, and procedures. The activities conducted during the MEC RI are addressed under DERP. The MEC RI was performed in accordance with CERCLA Sections 104 and 121.

QC of survey instrument data was achieved daily by field testing consisting of checking the sensors by comparison with known ferrous and non-ferrous surrogates and checking navigation systems by comparison with two known monuments to ensure that the instruments were operating properly. Repair or replacement records were filed with and maintained by the SUXOS in accordance with the UFP-SAP (Tetra Tech, 2010). All UXO equipment used to generate field data were subjected to field QC tests with sufficient frequency and in such a manner that accuracy and reproducibility of the results were consistent with the manufacturers' specifications.

The UXOSO and/or UXOQCS performed QC surveillance and observed the detector-aided survey activities. The results of the QC surveillance were acceptable and are provided in [Appendix C](#). Note, the surface blind seed QC test was completed by placing blind seeds along the survey transects rather than at the IVS location as incorrectly stated in the UFP-SAP.

4.4 SCREENING-LEVEL HAZARD/RISK ASSESSMENT METHODOLOGIES

Qualitative screening-level hazard/risk assessments were performed to evaluate the potential explosive safety risk to the public from Site 15. The assessments were based on historical information from prior 2008 and 2009 MEC support activities in support of contaminated soil removal, and remedial action as well as the results of the subject MEC RI. A qualitative assessment was not completed for MC because chemical contamination at Site 15 was addressed during the remedial action performed in 2008 and 2009.

The potential for an explosive safety risk was characterized qualitatively for Site 15 by evaluating the following conditions:

- MEC are confirmed or suspected to be present (a source is present).
- The MEC confirmed or suspected to be present are potentially hazardous (may result in physical injury or death if detonated when disturbed).
- The MRS is accessible to potential receptors that may interact with MEC (the possibility exists that a receptor may pick up or disturb MEC).

If all three of the primary risk factors have been met at the MRS, a potential explosive safety risk is present. The results of the qualitative evaluation are presented in the [Section 5.0](#) of this report.

5.0 OU 5, SITE 15 - BLUE 10 ORDNANCE DISPOSAL AREA INVESTIGATION

5.1 MEC RI FIELD ACTIVITIES

MEC RI field activities included transect layout, vegetation management, and an UXO detector-aided surface survey to generally delineate the extent of MEC/MPPEH still present at the ground surface and delineate shallow subsurface (1 foot bgs) anomalies at Site 15 in areas that have not been addressed for MEC to date. Areas previously investigated/cleared of munitions during the 2008/2009 soil remediation effort did not require further investigation and were not included in the MEC RI survey area. The focus of the MEC RI was on refining site boundaries for MEC/MPPEH by working outward from areas that were previously not addressed but were most likely to have MEC/MPPEH based on the CSM, such as within and adjacent to the former ordnance disposal area, former skeet and trap range areas, and along access roads to the ordnance disposal area. The MEC RI was conducted in accordance with the UFP-SAP (Tetra Tech, 2010). Details on methodology are presented in [Section 4.0](#).

5.1.1 Detector-Aided Survey

5.1.1.1 Scope

Activities at Site 15 included the following:

- Remove surface non-munitions-related debris.
- Light brush cutting with hand tools.
- Completion of a UXO detector-aided survey over the pre-defined survey grid quantifying the number and type of MEC/MPPEH on the ground surface and characterizing the extent of shallow subsurface anomalies (none, low, medium, or high).
- Collection of GPS data for all MEC/MPPEH.

5.1.1.2 Equipment and Methodology

The UXO team conducted a visual and a UXO detector-aided surface survey at Site 15 using hand-held magnetic locators (Schonstedt GA-52Cx) and all-metals detectors (the White's Spectrum XLT). The survey area consisted of 333 100-foot-long transects (168 oriented north-south and 165 oriented east-west) with survey widths of approximately 5 feet ([Figure 5-1](#)). The detector-aided surface survey was conducted along transects in the areas adjacent to the grids identified as having MEC/MPPEH during the 2008-2009 contaminated soil remedial action, which varied from areas cleared of vegetation to heavily

vegetated areas ([Appendix B](#)). The established transects were relatively straight but did avoid large trees. Note the location of the IVS (yellow grid square) is also shown on the figure.

The locations of surface items were recorded using a field log and GPS and/or compass and tape measure from a known location (in areas where the tree canopy prohibited the use of a GPS). Along each 100-foot-long transect, the UXO team evaluated and recorded the number of subsurface anomalies. Each transect was classified as having none (0), low (1 to 5), medium (6 to 20), or high (greater than 20) anomalies in accordance with the MEC RI UFP-SAP (Tetra Tech, 2010).

5.1.1.3 Quality Assurance/Quality Control

The UXOQCS completed daily QC reports ([Appendix C](#)) for activities performed during collection of UXO detector-aided surface survey data from Site 15. The SUXOS and/or UXOQCS conducted QC surveillance of various RI activities such as vegetation management and the UXO detector-aided surface survey and QC checks, which all met the QC requirements.

To ensure that all metallic debris 20 mm or larger on the surface was being discovered during the survey, a minimum of 25 percent of the first four transects and 10 percent of the remaining transects were resurveyed by the UXOQCS. The daily QC reports indicated that 94 transects or approximately 28 percent of the surveyed transects were inspected by the UXOQCS for QC purposes, and the QC requirements were met with acceptable results.

5.1.1.4 Deviations from Work Plan

All RI activities at Site 15 were performed in accordance with the UFP-SAP (Tetra Tech, 2010).

5.1.1.5 Data Quality Review

[Appendix D](#) contains the MEC Data Quality Review and Usability Checklist for the RI conducted at Site 15. A qualified UXO survey team conducted the detector-aided survey, and the data collected fulfilled the procedure, coverage, and accuracy requirements of the UFP-SAP (Tetra Tech, 2010). Section 5.1.1.3 describes the QA/QC activities conducted for this site, and QA/QC documentation is included in [Appendix C](#). All MEC results have been verified, and the collected data are usable.

5.2 RESULTS

Results of the detector-aided survey are summarized in [Tables 5-1](#) and [5-2](#) and presented on [Figure 5-2](#). No MEC items were identified on the ground surface although MPPEH was encountered. [Table 5-1](#) summarizes the 13 MPPEH items identified during the survey and [Figure 5-2](#) shows the locations of each item. The majority of items were found in the northeastern and northwestern portions of the site within or near the ordnance disposal area as expected. Items included propellant cans, slap flare cases, fuze parts, a 20-mm Target Practice (TP) Projectile, missile parts, a smoke grenade, smoke marker, and blast plate. All MPPEH items were identified as corroded or burned and were left in place as required by the UFP-SAP. Eight items were preliminarily identified as MDAS by the UXO survey team; however, the final determination cannot take place until an ESS is prepared and an intrusive investigation is conducted in the future.

[Table 5-2](#) summarizes the subsurface anomalies identified along each transect, and [Figure 5-2](#) displays color-coded transects; none (blue), low (1 to 5 anomalies) (green), medium (6 to 20 anomalies) (yellow), and high (greater than 20 anomalies) (red). The UXO detector-aided survey detected 1,645 subsurface anomalies along 333 transects. The number of anomalies per 100-foot transect ranged from 0 to 36 (Transect K between T16 and T17). High anomaly (red) transects account for 6 percent, medium anomaly (yellow) transects account for 20 percent, low anomaly (green) transects account for 56 percent, and none (blue) transects account for 18 percent of the transects surveyed.

In general, subsurface anomaly density decreased with distance from the ordnance disposal area and roadways. High and medium anomaly concentrations were identified primarily within 200 feet of the ordnance disposal area. Specifically, high anomaly densities were identified to the west of the southern former trap range along the dirt access road, in the former Ordnance Disposal Area in the northeast, near the Former 40-foot Towers in the southwest, and east of the former Concrete Foundations in the southeast. The majority of anomaly detections in the northeastern corner of the site (southeast of the Ordnance Disposal Area) was non-ferrous and was identified with the White's Spectrum XLT. Medium and low anomaly density transects were identified as expected, farther from areas where historical ordnance disposal activities took place.

5.3 SCREENING-LEVEL HAZARD/RISK ASSESSMENT

A qualitative screening-level hazard/risk assessment was performed to evaluate the potential explosive safety risk to the public at Site 15. The assessment is based on historical information (2008/2009 MEC support of soil removal) and the results of this MEC RI. A qualitative assessment was not conducted for

MC because no chemical analytical data were warranted during the RI, since concerns related to chemical contamination were already addressed.

The results of the assessment are summarized as follows:

- The presence of MEC at Site 15 is known based on previous remedial action. Many subsurface anomalies at Site 15 were identified that could represent MEC since MEC was previously encountered during the 2008/2009 soil remedial action. These anomalies cannot be confirmed as MEC without intrusive investigation.
- MPPEH items identified at Site 15 during the MEC RI include propellant cans, slap flare cases, fuze parts, a 20mm TP projectile, missile parts, a smoke grenade, smoke marker, and blast plate. Some of these items may still present an explosive hazard if they remain intact or were not completely burned during disposal. Therefore, the MPPEH at Site 15 are considered to be potentially hazardous until further inspection of the items can be completed and the entire ground surface of the site is surveyed and any items addressed. Furthermore, only 100-foot by 100-foot spaced transects were employed during the MEC RI and so other munitions items could be present on the ground surface in area that we not included in the MEC RI survey.
- Accessibility considers whether human receptors can be exposed to MEC/MPPEH. Site 15 is currently not used and is in a controlled area accessible only through access gates. However, the JEDC Reuse Plan provides for future use of the site as a natural and recreational corridor. The LUC RD allows for only low-intensity recreational uses, which include activities such as hiking, biking, horseback riding, birding, and hunting. No man-made attractions can be provided that would entice people, particularly small children, to frequently visit the site, which is consistent with the property's proposed reuse as a natural resource corridor. However, because access to Site 15 will be accessible by the public and limited recreational activities (running and hiking along trails) may occur, Site 15 is considered accessible to recreational visitors.

The qualitative screening-level hazard/risk assessment confirmed that all of the primary hazard/risk factors defined in [Section 4.4](#) have been met and that a potential explosive safety risk exists at Site 15.

5.4 CONCLUSIONS

As expected based on the established CSM, Site 15 still contains MPPEH on the surface, and MEC may remain on the surface of the site. Because widely spaced transects were employed during the MEC RI, it

is uncertain what remains in areas not yet investigated. Likely, MEC/MPPEH also remains in the subsurface based on subsurface anomalies potentially representing MEC/MPPEH identified during the MEC RI detector-aided surface survey. Without intrusive investigation, the nature of the subsurface anomalies cannot be determined.

For both the surface and subsurface, results indicate that potential explosive hazards are largely associated with the ordnance disposal area and roadways.

A potential explosive safety risk was identified for Site 15 based on the presence of MPPEH and the historical presence of MEC (2008/2009 soil remediation), potentially hazardous nature of the items, and accessibility of the site to human receptors, particularly in light of the intended low-intensity recreational use. Based on information collected during the MEC RI, the likelihood of encountering MEC/MPPEH at Site 15 on the ground surface is low and in the subsurface (0 to 1 foot bgs) is high, particularly in the ordnance disposal area.

5.5 UPDATED CONCEPTUAL SITE MODEL

The initial CSM for Site 15 was developed based on historical information presented in documents associated with the 2008/2009 MEC and MC remedial actions. The CSM has been updated to incorporate the information obtained during the MEC RI detector-aided survey. A visual CSM is presented as [Figure 5-3](#), and an updated tabular CSM is presented as [Table 5-3](#). The MEC RI results support the CSM developed in the MEC RI UFP-SAP (Tetra Tech, 2010) by confirming that munitions concerns remain at the site, largely located near the ordnance disposal area and roadways.

Based on the detector-aided survey performed during this MEC RI, the density of surface MEC/MPPEH and specifically MDAS at the site is characterized as low over the majority of the surface of the site. However, approximately 1,600 subsurface anomalies were detected during the MEC RI, and so the subsurface density is expected to be high. Consistent with the CSM, greater subsurface anomaly density is present nearest the ordnance disposal area and generally decreases away from this area. Based on the 2008/2009 removal action, the source of the anomalies is expected to be largely MDAS, with a low number of MEC/MPPEH items present.

The exposure pathways by which site receptors could be exposed to or contaminated by MEC/MPPEH are presented on [Figure 5-3](#).

5.6 RECOMMENDATIONS

This MEC RI was conducted practicing UXO avoidance, and so the source of the subsurface anomalies is unknown. It is recommended that Site 15 proceed to a Supplemental RI where subsurface intrusive investigation can be conducted to further assess if MEC/MPPEH is the source of anomalies encountered, and if so, how far out from the ordnance disposal area MEC/MPPEH extends into the subsurface. Further investigation of select subsurface anomalies located along transects characterized as having a high anomaly density (greater than 20 anomalies) is warranted to confirm the presence of MEC/MPPEH in these areas in the shallow subsurface. In addition, investigation of specific transects with a medium (6 to 20) to low (1 to 5) anomaly densities near the perimeter of the survey area is warranted, to confirm that subsurface anomalies near the survey area perimeter are the result of non-munitions debris, or MDAS, which does not pose a risk, as opposed to MEC, which poses a high hazard/risk. In addition, MPEH encountered during the MEC SI can be rendered safe.

TABLE 5-1

**MPPEH ITEMS IDENTIFIED DURING THE MEC RI DETECTOR-AIDED SURFACE SURVEY
OU 5, SITE 15 - BLUE 10 ORDNANCE DISPOSAL AREA
NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA**

| ID # | Item | Date Identified | GPS Location* US Survey Feet | | Physical Condition/ Appearance | Classification | Resolution |
|------|---------------------|-----------------|---------------------------------|-------------------|-----------------------------------|-------------------|---------------|
| | | | Northing (feet) | Easting (feet) | | | |
| 1 | Propellant Can | 4/28/10 | 2147746125 | 365412.93 | Rusted / Open | MDAS | Left in Place |
| 2 | Two Propellant Cans | 4/28/10 | 2147752.62 | 365408.05 | Rusted / Open Intact | 1-MDAS 1-MPPEH | Left in Place |
| 3 | Slap Flare Case | 5/3/10 | 2149369.30 | 365001.10 | Crushed / Corroded | MPPEH | Left in Place |
| 4 | Slap Flare Case | 5/3/10 | 2149402.86 | 364973.56 | Crushed / Corroded | MPPEH | Left in Place |
| 5 | Projectile Fuze | 5/11/10 | 2148124.03 | 364104.19 | Burned / Corroded | MDAS | Left in Place |
| 6 | Fuze Part | 5/11/10 | 2148994.82 | 364300.49 | Burned / Corroded | MDAS | Left in Place |
| 7 | 20mm TP Projectile | 5/12/10 | 2148900.23 | 364476.06 | Burned / Corroded | MDAS | Left in Place |
| 8 | Missile Parts | 5/13/10 | 2148203.25 | 365154.48 | Burned / Corroded | MDAS | Left in Place |
| 9 | Smoke Grenade | 5/13/10 | 2148001.09 | 365362.00 | Expended / Rusted | MDAS | Left in Place |
| 10 | Smoke Marker | 5/14/10 | 2149155.70 | 364505.67 | Broken open / Corroded | MDAS | Left in Place |
| 11 | Blast Plate | 5/19/10 | 2149529.44 | 365306.69 | Corroded | MPPEH | Left in Place |
| 12 | Fuze Part | 5/19/10 | 2149599.43 | 365228.58 | Burned / Corroded | MPPEH | Left in Place |
| 13 | Fuze Part | 5/19/10 | 2149613.32 | 365103.81 | Burned / Corroded | MPPEH | Left in Place |

MPPEH – Material Potentially Presenting an Explosive Hazard. Hazard could not be determined through visual inspection while practicing anomaly avoidance.

MDAS – Munitions Documented as Safe.

* GPS data were collected using the North American Datum of 1983, Florida State Plane (US Survey Feet).

See [Figure 5-2](#) for item locations.

TABLE 5-2

**SUMMARY OF MEC RI DETECTOR-AIDED SURFACE AND SUBSURFACE
ANOMALY SURVEY RESULTS
OU 5, SITE 15 - BLUE 10 ORDNANCE DISPOSAL AREA
NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA
PAGE 1 OF 11**

| TRANSECT SEGMENT⁽¹⁾ | NUMBER OF ANOMALIES | COLOR CODE⁽²⁾ | DATE COLLECTED |
|---------------------------------------|----------------------------|---------------------------------|-----------------------|
| EAST/WEST | | | |
| T1-DE | 2 | Green | 5/15/10 |
| T1-EF | 2 | Green | 5/15/10 |
| T1-FG | 1 | Green | 5/15/10 |
| T1-GH | 0 | Blue | 5/15/10 |
| T1-HI | 1 | Green | 5/15/10 |
| T1-IJ | 3 | Green | 5/15/10 |
| T1-JK | 1 | Green | 5/19/10 |
| T2-KL | 1 | Green | 5/22/10 |
| T2-LM | 1 | Green | 5/22/10 |
| T2-MN | 1 | Green | 5/22/10 |
| T2-CD | 0 | Blue | 5/11/10 |
| T2-DE | 1 | Green | 5/2/10 |
| T2-EF | 2 | Green | 5/11/10 |
| T2-IJ | 3 | Green | 5/3/10 |
| T2-JK | 0 | Blue | 5/19/10 |
| T3-AB | 2 | Green | 5/11/10 |
| T3-BC | 0 | Blue | 5/11/10 |
| T3-CD | 0 | Blue | 5/11/10 |
| T3-DE | 1 | Green | 5/11/10 |
| T3-IJ | 10 | Yellow | 5/3/10 |
| T3-JK | 1 | Green | 5/19/10 |
| T3-KL | 4 | Green | 5/19/10 |
| T3-LM | 3 | Green | 5/19/10 |
| T3-MN | 0 | Blue | 5/22/10 |
| T4-AB | 0 | Blue | 5/11/10 |
| T4-BC | 0 | Blue | 5/11/10 |
| T4-CD | 2 | Green | 5/11/10 |
| T4-HI | 30 | Red | 5/3/10 |
| T4-IJ | 16 | Yellow | 5/3/10 |
| T4-JK | 5 | Green | 5/3/10 |
| T4-KL | 10 | Yellow | 5/3/10 |
| T4-LM | 9 | Yellow | 5/3/10 |

TABLE 5-2

**SUMMARY OF MEC RI DETECTOR-AIDED SURFACE AND SUBSURFACE
ANOMALY SURVEY RESULTS
OU 5, SITE 15 - BLUE 10 ORDNANCE DISPOSAL AREA
NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA
PAGE 2 OF 11**

| TRANSECT SEGMENT⁽¹⁾ | NUMBER OF ANOMALIES | COLOR CODE⁽²⁾ | DATE COLLECTED |
|---------------------------------------|----------------------------|---------------------------------|-----------------------|
| T4-MN | 4 | Green | 5/3/10 |
| T4-NO | 2 | Green | 5/3/10 |
| T4-OP | 1 | Green | 5/3/10 |
| T5-AB | 1 | Green | 5/11/10 |
| T5-BC | 2 | Green | 5/11/10 |
| T5-CD | 1 | Green | 5/11/10 |
| T5-FG | 23 | Red | 5/3/10 |
| T5-GH | 22 | Red | 5/5/10 |
| T5-HI | 29 | Red | 5/5/10 |
| T5-IJ | 21 | Red | 5/5/10 |
| T5-JK | 18 | Yellow | 5/5/10 |
| T5-KL | 9 | Yellow | 5/5/10 |
| T5-LM | 5 | Green | 5/3/10 |
| T5-MN | 2 | Green | 5/3/10 |
| T5-NO | 1 | Green | 5/3/10 |
| T5-OP | 1 | Green | 5/3/10 |
| T6-AB | 1 | Green | 5/11/10 |
| T6-BC | 1 | Green | 5/11/10 |
| T6-CD | 4 | Green | 5/11/10 |
| T6-NO | 5 | Green | 5/12/10 |
| T6-OP | 2 | Green | 5/12/10 |
| T7-A AA | 3 | Green | 5/21/10 |
| T7-AB | 1 | Green | 5/11/10 |
| T7-BC | 3 | Green | 5/11/10 |
| T7-NO | 1 | Green | 5/12/10 |
| T7-OP | 1 | Green | 5/12/10 |
| T8-AA BB | 1 | Green | 5/21/10 |
| T8-A AA | 2 | Green | 5/21/10 |
| T8-AB | 2 | Green | 5/11/10 |
| T8-DE | 5 | Green | 5/12/10 |
| T8-EF | 5 | Green | 5/12/10 |
| T8-NO | 0 | Blue | 5/12/10 |
| T8-OP | 1 | Green | 5/12/10 |

TABLE 5-2

**SUMMARY OF MEC RI DETECTOR-AIDED SURFACE AND SUBSURFACE
ANOMALY SURVEY RESULTS
OU 5, SITE 15 - BLUE 10 ORDNANCE DISPOSAL AREA
NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA
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| TRANSECT SEGMENT⁽¹⁾ | NUMBER OF ANOMALIES | COLOR CODE⁽²⁾ | DATE COLLECTED |
|---------------------------------------|----------------------------|---------------------------------|-----------------------|
| T9-BB CC | 0 | Blue | 5/21/10 |
| T9-AA BB | 0 | Blue | 5/21/10 |
| T9-AB | 3 | Green | 5/11/10 |
| T9-DE | 4 | Green | 5/12/10 |
| T9-EF | 6 | Yellow | 5/12/10 |
| T9-JK | 23 | Red | 5/12/10 |
| T9-KL | 11 | Yellow | 5/12/10 |
| T9-LM | 1 | Green | 5/12/10 |
| T9-MN | 4 | Green | 5/12/10 |
| T9-NO | 0 | Blue | 5/12/10 |
| T9-OP | 0 | Blue | 5/12/10 |
| T10-BB CC | 1 | Green | 5/21/10 |
| T10-BC | 4 | Green | 5/15/10 |
| T10-AB | 1 | Green | 5/11/10 |
| T10-CD | 12 | Yellow | 5/15/10 |
| T10-DE | 8 | Yellow | 5/15/10 |
| T10-EF | 9 | Yellow | 5/12/10 |
| T10-JK | 11 | Yellow | 5/12/10 |
| T10-KL | 19 | Yellow | 5/12/10 |
| T10-LM | 1 | Green | 5/12/10 |
| T10-MN | 2 | Green | 5/12/10 |
| T11-BC | 0 | Blue | 5/11/10 |
| T11-CD | 3 | Green | 5/15/10 |
| T11-DE | 11 | Yellow | 5/15/10 |
| T11-EF | 9 | Yellow | 5/12/10 |
| T11-JK | 8 | Yellow | 5/12/10 |
| T11-KL | 13 | Yellow | 5/12/10 |
| T11-LM | 0 | Blue | 5/12/10 |
| T11-MN | 1 | Green | 5/12/10 |
| T12-CD | 4 | Green | 5/15/10 |
| T12-DE | 17 | Yellow | 5/15/10 |
| T12-EF | 15 | Yellow | 5/12/10 |
| T12-KL | 14 | Yellow | 5/12/10 |

TABLE 5-2

**SUMMARY OF MEC RI DETECTOR-AIDED SURFACE AND SUBSURFACE
ANOMALY SURVEY RESULTS
OU 5, SITE 15 - BLUE 10 ORDNANCE DISPOSAL AREA
NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA
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| TRANSECT SEGMENT⁽¹⁾ | NUMBER OF ANOMALIES | COLOR CODE⁽²⁾ | DATE COLLECTED |
|---------------------------------------|----------------------------|---------------------------------|-----------------------|
| T12-LM | 2 | Green | 5/12/10 |
| T12-MN | 0 | Blue | 5/12/10 |
| T13-CD | 0 | Blue | 5/15/10 |
| T13-DE | 5 | Green | 5/15/10 |
| T13-EF | 11 | Yellow | 5/12/10 |
| T13-KL | 4 | Green | 5/12/10 |
| T13-LM | 3 | Green | 5/12/10 |
| T13-MN | 3 | Green | 5/12/10 |
| T14-CD | 2 | Green | 5/11/10 |
| T14-DE | 2 | Green | 5/15/10 |
| T14-EF | 13 | Yellow | 5/12/10 |
| T14-HI | 8 | Yellow | 5/14/10 |
| T14-LM | 6 | Yellow | 5/12/10 |
| T14-MN | 3 | Green | 5/12/10 |
| T15-CD | 4 | Green | 5/22/10 |
| T15-DE | 7 | Yellow | 5/13/10 |
| T15-EF | 11 | Yellow | 5/13/10 |
| T15-LM | 2 | Green | 5/12/10 |
| T15-MN | 0 | Blue | 5/15/10 |
| T16-CD | 2 | Green | 5/22/10 |
| T16-DE | 2 | Green | 5/13/10 |
| T16-EF | 3 | Green | 5/13/10 |
| T16-LM | 1 | Green | 5/12/10 |
| T16-MN | 7 | Yellow | 5/15/10 |
| T17-CD | 0 | Blue | 5/22/10 |
| T17-DE | 7 | Yellow | 5/13/10 |
| T17-IJ | 4 | Green | 5/14/10 |
| T17-JK | 5 | Green | 5/14/10 |
| T17-KL | 5 | Green | 5/14/10 |
| T17-LM | 1 | Green | 5/14/10 |
| T17-MN | 1 | Green | 5/14/10 |
| T18-DE | 2 | Green | 5/13/10 |
| T18-KL | 3 | Green | 5/15/10 |

TABLE 5-2

**SUMMARY OF MEC RI DETECTOR-AIDED SURFACE AND SUBSURFACE
ANOMALY SURVEY RESULTS
OU 5, SITE 15 - BLUE 10 ORDNANCE DISPOSAL AREA
NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA
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| TRANSECT SEGMENT⁽¹⁾ | NUMBER OF ANOMALIES | COLOR CODE⁽²⁾ | DATE COLLECTED |
|---------------------------------------|----------------------------|---------------------------------|-----------------------|
| T18-LM | 11 | Yellow | 5/15/10 |
| T18-MN | 4 | Green | 5/15/10 |
| T19-DE | 0 | Blue | 5/13/10 |
| T19-GH | 4 | Green | 5/13/10 |
| T19-LM | 0 | Blue | 5/15/10 |
| T19-MN | 1 | Green | 5/15/10 |
| T20-GH | 25 | Red | 5/13/10 |
| T20-LM | 0 | Blue | 5/15/10 |
| T20-MN | 0 | Blue | 5/15/10 |
| T20-NO | 0 | Blue | 5/15/10 |
| T20-OP | 2 | Green | 5/20/10 |
| T21-FG | 0 | Blue | 5/13/10 |
| T21-GH | 4 | Green | 5/13/10 |
| T21-LM | 0 | Blue | 5/15/10 |
| T21-MN | 7 | Yellow | 5/15/10 |
| T21-NO | 5 | Green | 5/20/10 |
| T21-OP | 1 | Green | 5/20/10 |
| T22-EF | 1 | Green | 5/14/10 |
| T22-FG | 1 | Green | 5/14/10 |
| T22-GH | 2 | Green | 5/14/10 |
| T22-LM | 0 | Blue | 5/15/10 |
| T22-MN | 3 | Green | 5/15/10 |
| T22-NO | 1 | Green | 5/20/10 |
| T22-OP | 1 | Green | 5/20/10 |
| T23-EF | 1 | Green | 5/14/10 |
| T23-FG | 2 | Green | 5/14/10 |
| T23-GH | 9 | Yellow | 5/14/10 |
| T23-HI | 1 | Green | 5/15/10 |
| T23-IJ | 0 | Blue | 5/15/10 |
| T23-JK | 0 | Blue | 5/15/10 |
| T23-KL | 0 | Blue | 5/15/10 |
| T23-LM | 2 | Green | 5/15/10 |
| T24-IJ | 0 | Blue | 5/15/10 |

TABLE 5-2

SUMMARY OF MEC RI DETECTOR-AIDED SURFACE AND SUBSURFACE
ANOMALY SURVEY RESULTS
OU 5, SITE 15 - BLUE 10 ORDNANCE DISPOSAL AREA
NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA
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| TRANSECT SEGMENT ⁽¹⁾ | NUMBER OF ANOMALIES | COLOR CODE ⁽²⁾ | DATE COLLECTED |
|---------------------------------|---------------------|---------------------------|----------------|
| T25-IJ | 0 | Blue | 5/15/10 |
| North / South | | | |
| CC-T9T10 | 0 | Blue | 5/21/10 |
| BB-T8T9 | 2 | Green | 5/21/10 |
| BB-T9T10 | 2 | Green | 5/21/10 |
| AA-T7T8 | 0 | Blue | 5/21/10 |
| AA-T8T9 | 0 | Blue | 5/21/10 |
| A-T3T4 | 1 | Green | 5/11/10 |
| A-T4T5 | 0 | Blue | 5/11/10 |
| A-T5T6 | 0 | Blue | 5/11/10 |
| A-T6T7 | 1 | Green | 5/11/10 |
| A-T7T8 | 1 | Green | 5/11/10 |
| A-T8T9 | 2 | Green | 5/11/10 |
| A-T9T10 | 2 | Green | 5/11/10 |
| B-T3T4 | 1 | Green | 5/11/10 |
| B-T4T5 | 2 | Green | 5/11/10 |
| B-T5T6 | 2 | Green | 5/11/10 |
| B-T6T7 | 0 | Blue | 5/11/10 |
| B-T7T8 | 1 | Green | 5/11/10 |
| B-T9T10 | 2 | Green | 5/11/10 |
| B-T10T11 | 1 | Green | 5/11/10 |
| C-T2T3 | 0 | Blue | 5/11/10 |
| C-T3T4 | 0 | Blue | 5/11/10 |
| C-T4T5 | 2 | Green | 5/11/10 |
| C-T5T6 | 6 | Yellow | 5/11/10 |
| C-T6T7 | 5 | Green | 5/11/10 |
| C-T9T10 | 4 | Green | 5/11/10 |
| C-T10T11 | 1 | Green | 5/11/10 |
| C-T11T12 | 2 | Green | 5/11/10 |
| C-T12T13 | 1 | Green | 5/11/10 |
| C-T13T14 | 1 | Green | 5/11/10 |
| C-T14T15 | 1 | Green | 5/22/10 |
| C-T15T16 | 0 | Blue | 5/22/10 |

TABLE 5-2

SUMMARY OF MEC RI DETECTOR-AIDED SURFACE AND SUBSURFACE
 ANOMALY SURVEY RESULTS
 OU 5, SITE 15 - BLUE 10 ORDNANCE DISPOSAL AREA
 NAVAL AIR STATION CECIL FIELD
 JACKSONVILLE, FLORIDA
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| TRANSECT SEGMENT ⁽¹⁾ | NUMBER OF ANOMALIES | COLOR CODE ⁽²⁾ | DATE COLLECTED |
|---------------------------------|---------------------|---------------------------|----------------|
| C-T16T17 | 3 | Green | 5/22/10 |
| D-T1T2 | 0 | Blue | 5/11/10 |
| D-T2T3 | 1 | Green | 5/15/10 |
| D-T3T4 | 0 | Blue | 5/11/10 |
| D-T9T10 | 5 | Green | 5/11/10 |
| D-T10T11 | 6 | Yellow | 5/11/10 |
| D-T11T12 | 2 | Green | 5/11/10 |
| D-T12T13 | 2 | Green | 5/11/10 |
| D-T13T14 | 2 | Green | 5/11/10 |
| D-T14T15 | 14 | Yellow | 5/13/10 |
| D-T15T16 | 9 | Yellow | 5/13/10 |
| D-T16T17 | 8 | Yellow | 5/13/10 |
| D-T17T18 | 6 | Yellow | 5/13/10 |
| D-T18T19 | 4 | Green | 5/13/10 |
| D-T19T20 | 6 | Yellow | 5/13/10 |
| E-T1T2 | 2 | Green | 5/15/10 |
| E-T2T3 | 1 | Green | 5/15/10 |
| E-T7T8 | 15 | Yellow | 5/12/10 |
| E-T8T9 | 24 | Red | 5/12/10 |
| E-T9T10 | 9 | Yellow | 5/12/10 |
| E-T10T11 | 11 | Yellow | 5/12/10 |
| E-T11T12 | 22 | Red | 5/12/10 |
| E-T12T13 | 9 | Yellow | 5/12/10 |
| E-T13T14 | 6 | Yellow | 5/12/10 |
| E-T14T15 | 8 | Yellow | 5/13/10 |
| E-T15T16 | 5 | Green | 5/13/10 |
| E-T16T17 | 20 | Yellow | 5/13/10 |
| E-T19T20 | 1 | Green | 5/13/10 |
| E-T22T23 | 2 | Green | 5/14/10 |
| E-T23T24 | 0 | Blue | 5/14/10 |
| F-T1T2 | 2 | Green | 5/15/10 |
| F-T16T17 | 2 | Green | 5/13/10 |
| F-T22T23 | 2 | Green | 5/14/10 |

TABLE 5-2

SUMMARY OF MEC RI DETECTOR-AIDED SURFACE AND SUBSURFACE
 ANOMALY SURVEY RESULTS
 OU 5, SITE 15 - BLUE 10 ORDNANCE DISPOSAL AREA
 NAVAL AIR STATION CECIL FIELD
 JACKSONVILLE, FLORIDA
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| TRANSECT SEGMENT ⁽¹⁾ | NUMBER OF ANOMALIES | COLOR CODE ⁽²⁾ | DATE COLLECTED |
|---------------------------------|---------------------|---------------------------|----------------|
| F-T23T24 | 5 | Green | 5/14/10 |
| G-T1T2 | 2 | Green | 5/15/10 |
| G-T4T5 | 20 | Yellow | 5/5/10 |
| G-T5T6 | 28 | Red | 5/3/10 |
| G-T20T21 | 2 | Green | 5/13/10 |
| G-T21T22 | 1 | Green | 5/14/10 |
| G-T22T23 | 4 | Green | 5/14/10 |
| G-T23T24 | 4 | Green | 5/14/10 |
| H-T1T2 | 4 | Green | 5/15/10 |
| H-T4T5 | 24 | Red | 5/5/10 |
| H-T5T6 | 15 | Yellow | 5/5/10 |
| H-T22T23 | 31 | Red | 5/15/10 |
| H-T23T24 | 0 | Blue | 5/15/10 |
| I-T1T2 | 1 | Green | 5/2/10 |
| I-T3T4 | 11 | Yellow | 5/3/10 |
| I-T4T5 | 23 | Red | 5/3/10 |
| I-T5T6 | 25 | Red | 5/3/10 |
| I-T22T23 | 31 | Red | 5/15/10 |
| I-T23T24 | 0 | Blue | 5/15/10 |
| J-T1T2 | 2 | Green | 5/15/10 |
| J-T2T3 | 28 | Red | 5/3/10 |
| J-T3T4 | 14 | Yellow | 5/3/10 |
| J-T4T5 | 15 | Yellow | 5/3/10 |
| J-T5T6 | 27 | Red | 5/3/10 |
| J-T16T17 | 5 | Green | 5/15/10 |
| J-T17T18 | 4 | Green | 5/15/10 |
| J-T22T23 | 1 | Green | 5/15/10 |
| J-T23T24 | 3 | Green | 5/15/10 |
| J-T24T25 | 0 | Blue | 5/15/10 |
| K-T1T2 | 1 | Green | 5/19/10 |
| K-T2T3 | 1 | Green | 5/19/10 |
| K-T3T4 | 3 | Green | 5/19/10 |
| K-T4T5 | 19 | Yellow | 5/5/10 |

TABLE 5-2

SUMMARY OF MEC RI DETECTOR-AIDED SURFACE AND SUBSURFACE
 ANOMALY SURVEY RESULTS
 OU 5, SITE 15 - BLUE 10 ORDNANCE DISPOSAL AREA
 NAVAL AIR STATION CECIL FIELD
 JACKSONVILLE, FLORIDA
 PAGE 9 OF 11

| TRANSECT SEGMENT ⁽¹⁾ | NUMBER OF ANOMALIES | COLOR CODE ⁽²⁾ | DATE COLLECTED |
|---------------------------------|---------------------|---------------------------|----------------|
| K-T5T6 | 20 | Yellow | 5/4/10 |
| K-T8T9 | 2 | Green | 5/12/10 |
| K-T9T10 | 7 | Yellow | 5/12/10 |
| K-T10T11 | 8 | Yellow | 5/12/10 |
| K-T11T12 | 3 | Green | 5/12/10 |
| K-T16T17 | 36 | Red | 5/15/10 |
| K-T17T18 | 12 | Yellow | 5/15/10 |
| K-T22T23 | 1 | Green | 5/15/10 |
| L-T2T3 | 0 | Blue | 5/22/10 |
| L-T3T4 | 1 | Green | 5/19/10 |
| L-T4T5 | 11 | Yellow | 5/5/10 |
| L-T5T6 | 5 | Green | 5/5/10 |
| L-T8T9 | 10 | Yellow | 5/12/10 |
| L-T9T10 | 7 | Yellow | 5/12/10 |
| L-T10T11 | 4 | Green | 5/12/10 |
| L-T11T12 | 6 | Yellow | 5/12/10 |
| L-T12T13 | 2 | Green | 5/12/10 |
| L-T13T14 | 1 | Green | 5/12/10 |
| L-T16T17 | 17 | Yellow | 5/15/10 |
| L-T17T18 | 30 | Red | 5/15/10 |
| L-T18T19 | 5 | Green | 5/15/10 |
| L-T22T23 | 2 | Green | 5/15/10 |
| M-T2T3 | 2 | Green | 5/22/10 |
| M-T3T4 | 6 | Yellow | 5/19/10 |
| M-T4T5 | 6 | Yellow | 5/5/10 |
| M-T5T6 | 23 | Red | 5/5/10 |
| M-T8T9 | 1 | Green | 5/12/10 |
| M-T9T10 | 1 | Green | 5/12/10 |
| M-T10T11 | 1 | Green | 5/12/10 |
| M-T11T12 | 1 | Green | 5/12/10 |
| M-T12T13 | 3 | Green | 5/12/10 |
| M-T13T14 | 2 | Green | 5/12/10 |
| M-T14T15 | 4 | Green | 5/12/10 |

TABLE 5-2

**SUMMARY OF MEC RI DETECTOR-AIDED SURFACE AND SUBSURFACE
ANOMALY SURVEY RESULTS
OU 5, SITE 15 - BLUE 10 ORDNANCE DISPOSAL AREA
NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA
PAGE 10 OF 11**

| TRANSECT SEGMENT⁽¹⁾ | NUMBER OF ANOMALIES | COLOR CODE⁽²⁾ | DATE COLLECTED |
|---------------------------------------|----------------------------|---------------------------------|-----------------------|
| M-T15T16 | 0 | Blue | 5/12/10 |
| M-T16T17 | 5 | Green | 5/15/10 |
| M-T17T18 | 3 | Green | 5/15/10 |
| M-T18T19 | 2 | Green | 5/15/10 |
| M-T19T20 | 0 | Blue | 5/15/10 |
| M-T20T21 | 3 | Green | 5/15/10 |
| M-T21T22 | 2 | Green | 5/15/10 |
| M-T22T23 | 4 | Green | 5/15/10 |
| N-T2T3 | 0 | Blue | 5/22/10 |
| N-T3T4 | 0 | Blue | 5/22/10 |
| N-T4T5 | 1 | Green | 5/5/10 |
| N-T5T6 | 3 | Green | 5/5/10 |
| N-T8T9 | 3 | Green | 5/12/10 |
| N-T9T10 | 5 | Green | 5/12/10 |
| N-T10T11 | 2 | Green | 5/12/10 |
| N-T11T12 | 1 | Green | 5/12/10 |
| N-T12T13 | 4 | Green | 5/12/10 |
| N-T13T14 | 4 | Green | 5/12/10 |
| N-T14T15 | 10 | Yellow | 5/12/10 |
| N-T15T16 | 1 | Green | 5/12/10 |
| N-T19T20 | 0 | Blue | 5/15/10 |
| N-T20T21 | 6 | Yellow | 5/15/10 |
| N-T21T22 | 6 | Yellow | 5/15/10 |
| O-T4T5 | 2 | Green | 5/12/10 |
| O-T5T6 | 1 | Green | 5/12/10 |
| O-T6T7 | 1 | Green | 5/12/10 |
| O-T7T8 | 0 | Blue | 5/12/10 |
| O-T8T9 | 0 | Blue | 5/12/10 |
| O-T19T20 | 0 | Blue | 5/15/10 |
| O-T20T21 | 1 | Green | 5/20/10 |
| O-T21T22 | 1 | Green | 5/20/10 |
| P-T4T5 | 0 | Blue | 5/3/10 |
| P-T5T6 | 0 | Blue | 5/12/10 |

TABLE 5-2

SUMMARY OF MEC RI DETECTOR-AIDED SURFACE AND SUBSURFACE
ANOMALY SURVEY RESULTS
OU 5, SITE 15 - BLUE 10 ORDNANCE DISPOSAL AREA
NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA
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| TRANSECT SEGMENT ⁽¹⁾ | NUMBER OF ANOMALIES | COLOR CODE ⁽²⁾ | DATE COLLECTED |
|---------------------------------|---------------------|---------------------------|----------------|
| P-T6T7 | 0 | Blue | 5/12/10 |
| P-T7T8 | 0 | Blue | 5/12/10 |
| P-T8T9 | 0 | Blue | 5/12/10 |
| P-T20T21 | 3 | Green | 5/20/10 |
| P-T21T22 | 1 | Green | 5/20/10 |

- 1 East/west transect segments are designated by the east/west transect identifier followed by the start and end points. North/south transect segments are designated by the north/south identifier followed by the start- and end-points.
- 2 Color code blue indicates 0 anomalies were detected, green indicates 1 to 5 anomalies were detected, yellow indicates 6 to 20 anomalies were detected, and red indicates that greater than 20 anomalies were detected. See [Figure 5-2](#) for item locations.

TABLE 5-3

**CONCEPTUAL SITE MODEL INFORMATION PROFILE
OPERABLE UNIT 5, SITE 15, BLUE 10 ORDNANCE DISPOSAL AREA
NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA
PAGE 1 OF 7**

| Profile Type | Information Needs | Findings |
|---------------------------|---|--|
| Range/Site Profile | Installation Name | Naval Air Station (NAS) Cecil Field |
| | Installation Location | Jacksonville, Florida Located 14 miles southwest of Jacksonville, Florida, with the majority of the facility located within Duval County, and the southernmost part of the facility is located in Clay County. |
| | Range/Site Name | Operable Unit (OU) 5, Site 15 - Blue 10 Ordnance Disposal Area |
| | Range/Site Location | Located in the southwestern section of the Yellow Water Weapons Area of NAS Cecil Field. |
| | Range/Site History | The skeet and trap range complex operated at the site from the early 1940s to the mid-1950s. Site 15 was used for ordnance disposal from the 1960s to 1977. Remediation of soil based on chemical contamination conducted in 2008 and 2009 in accordance with the Record of Decision (ROD) and included soil excavation from 17 areas, on-site solidification/stabilization, and off-site treatment and disposal of contaminated soil to allow low-intensity recreational reuse of the site (AGVIQ-CH2MHill, 2009). Chemical contamination at Site 15 has been addressed through the remedial action (Tetra Tech, 2009). In support of the soil excavation effort, munitions and explosives of concern (MEC) and material documented as safe (MDAS) (formerly called munitions debris [MD]) were first addressed during the 2008/2009 soil remediation effort and were removed from the excavation areas before soil excavation operations commenced. The munitions work occurred only in support of the contaminated soil removal effort and did not extend to other areas of the site. |
| | Range/Site Area and Layout | The former skeet and trap range was approximately 1,000 feet by 2,400 feet in size, with the long axis of the range being parallel to and east of the existing access road. Ordnance disposal consisted of burning ordnance materials in a large metal burn chamber and static firing rockets. The ordnance disposal structures were later located in the footprint on the western side of the skeet and trap range. |
| Range/Site Structures | There are no structures associated with Operable Unit 5, Site 15 - Blue 10 Ordnance Disposal Area activities remaining on site, except for some concrete foundation rubble. | |

TABLE 5-3

**CONCEPTUAL SITE MODEL INFORMATION PROFILE
OPERABLE UNIT 5, SITE 15, BLUE 10 ORDNANCE DISPOSAL AREA
NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA
PAGE 2 OF 7**

| Profile Type | Information Needs | Findings |
|---------------------------------------|---------------------------------------|--|
| Range/Site Profile (continued) | Range/Site Boundaries | See Figure 3-1 |
| | Range/Site Security | Site 15 is in a controlled area accessible only through access gates. |
| Munitions/Release Profile | Munitions Types | The majority of ordnance disposed of at the site was burned and included small arms munitions up to 20 millimeters (mm) in size, parachute and distress flares, Mark IV signal cartridges, rocket igniters, cartridge activated devices, and 2.75-inch and 5-inch rockets. Rocket propellant also was reportedly placed on the ground and ignited in the area of the burn chamber. Rocket motors were disposed of by static firing of both 2.75-inch and 5-inch rockets from a firing pad located south of the burn chamber. An estimated 2.5 tons of ordnance were disposed of at the site each month. Overall, an estimated 350 tons of ordnance were disposed of at the site while it was in operation. |
| | Maximum Probability Penetration Depth | Not applicable, since munitions items were never fired. However, it should be noted that in 2008/2009 MEC/material potentially presenting an explosive hazard (MPPEH)/munitions constituents (MC) was typically encountered at depths up to 2 feet below ground surface (bgs), and in some instances up to 3.5 feet bgs within the ordnance disposal area. |
| | MEC Density | Higher subsurface anomaly density is present nearest the ordnance disposal area and generally decreases moving outward in areas not previously addressed close to the ordnance disposal area. This is supported by the MEC Remedial Investigation (RI) by the red transect segments (high density of detected items). Surface MEC was moderate to low – no MEC were observed on the surface during this MEC RI detector-aided survey; however, only a broad-based approach to determine the general extent was completed (i.e., widely spaced transects). MEC has been observed in the past at Site 15; see Table 3-1 for the types and locations of the MEC identified and removed from the site in 2008/2009. Refer to Table 3-1 in this MEC RI Report for a summary of the previous MEC found in 2008/2009, Table 5-1 for a summary of surface MPPEH found in this MEC RI, and Table 5-2 for a summary of anomaly densities in the subsurface found in this MEC RI. |

TABLE 5-3

CONCEPTUAL SITE MODEL INFORMATION PROFILE
 OPERABLE UNIT 5, SITE 15, BLUE 10 ORDNANCE DISPOSAL AREA
 NAVAL AIR STATION CECIL FIELD
 JACKSONVILLE, FLORIDA
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| Profile Type | Information Needs | Findings |
|---|--------------------------------------|--|
| Munitions/ Release Profile (continued) | Munitions Scrap/ Fragments/ MPPEH | Refer to Table 3-1 for types and locations of MDAS found at this site and Table 5-1 for types and locations of MPPEH found during this MEC RI. See Table 5-2 for anomaly densities in the subsurface. Based on the detector-aided survey performed in the RI surface MEC/MPPEH and specifically MDAS is characterized as low over the majority of the surface of the site. However, approximately 1,600 subsurface anomalies were detected during the MEC RI, and so the subsurface anomaly density would be expected to be high in areas not previously addressed close to the ordnance disposal area. Higher subsurface anomaly density is present nearest the ordnance disposal area and generally decreases moving outward. |
| | Associated MC | A remedial action was conducted in 2008 and 2009 and included removal of soil contaminated with polycyclic aromatic hydrocarbons (PAHs), metals, and total recoverable petroleum hydrocarbons (TRPH) from 17 excavation areas (A to Q). PAH and lead contamination, respectively, are likely the result of clay pigeons/forest burn and lead shot from the skeet and trap operations and ordnance disposal area operations. The extent of lead- and PAH-contaminated soil was delineated and contaminated soil excavated to meet current land use requirements. Similarly, the extent of TRPH contaminated soil has been delineated and excavated to meet current land use. Previous environmental investigations show that other organic compounds, dioxins, perchlorate, and nitroaromatics, and other Target Analyte List metals are not Contaminants Of Concern (COCs) (ABB-ES, October 1997). Although nitroglycerin (propellant) has not been investigated, soil near the burn chamber where propellant would be expected was removed during the 2008/2009 soil removal effort (reportedly, rocket propellant was placed on the ground, ignited, and presumed to be consumed). Groundwater concentrations of COCs were not at levels of concern (ABB-ES, October 1997), although only one monitoring well remains on site to further assess arsenic (see Figure 3-1). |

TABLE 5-3

**CONCEPTUAL SITE MODEL INFORMATION PROFILE
OPERABLE UNIT 5, SITE 15, BLUE 10 ORDNANCE DISPOSAL AREA
NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA
PAGE 4 OF 7**

| Profile Type | Information Needs | Findings |
|---|---|---|
| Munitions/ Release Profile (continued) | Migration Routes/Release Mechanisms | MEC and MDAS have been detected in surface and subsurface soil. Migration of MEC is expected to be negligible because MEC would not be expected to move significantly within soil. Human exposure to MEC would only occur at a given location where MEC is present (e.g., picking up an item, inadvertently kicking an item). MEC is anticipated to be in areas used for munitions disposal and adjacent areas. MDAS is anticipated in surface soil in the formerly open skeet and trap range areas, munitions disposal area and adjacent areas, and along access roads to the disposal area. |
| Physical Profile | Climate | The climate in Jacksonville, Florida, is humid subtropical. From 1971 through 2000, the mean annual rainfall was approximately 52 inches, and the mean annual temperature was 68 degrees Fahrenheit. Most of the annual rainfall occurs in the late spring/early summer, and winters are generally mild and dry. |
| | Topography | Overall, Site 15 is flat (ABB-ES, 1997). Much of the OU 5 area is swampy throughout the year, with sections of the area under water for parts of the year. Land surface elevations range from approximately 72 to 80 feet National Geodetic Vertical Datum (NGVD) at Site 15. |
| | Geology | Site 15 is underlain by undifferentiated fine-grained sand, and lenses and stringers of silty or clayey material may be encountered intermittently. The stringers are generally less than 1 inch thick and are not continuous. Lithologic descriptions recorded during monitoring well installation at Site 15 indicate that sand is present from ground surface to at least 14 feet bgs (ABB-ES, 1997). |
| | Soil | Three soil types cover Site 15 in nearly equal percentages, the Olustee Fine Sand, Leon Fine Sand, and Ridgeland Fine Sand. Each of the three soil types is described as a nearly level poorly drained soil found in broad flatwood areas. |
| | Hydrogeology | Depth to groundwater is very shallow in these soil types, and permeability through the upper 6 inches is moderate to rapid (Tetra Tech, 2008). |
| | Hydrology | Drainage is limited because only two drainage pathways (ditches) intersect the general area of the site. Flow through the drainage ditches is intermittent, depending on rainfall, and ultimately drain into Yellow Water Creek located southwest of Site 15. |

TABLE 5-3

**CONCEPTUAL SITE MODEL INFORMATION PROFILE
 OPERABLE UNIT 5, SITE 15, BLUE 10 ORDNANCE DISPOSAL AREA
 NAVAL AIR STATION CECIL FIELD
 JACKSONVILLE, FLORIDA
 PAGE 5 OF 7**

| Profile Type | Information Needs | Findings |
|--------------------------------------|--|--|
| Physical Profile (continued) | Vegetation | Natural vegetation types consists predominantly of oak, pine, and saw palmetto. Six wetland areas are present that cover a combined area of approximately 4.6 acres (Tetra Tech, 2008). Currently, outside of the area where vegetation was removed as part of the 2008/2009 remedial action, the site remains heavily forested, primarily with slash pine and understory vegetation. The site also includes low shrub and brushland vegetation, particularly in areas where vegetation was removed in 2008. |
| Land Use and Exposure Profile | Current Land Use | Site 15 is currently not used and is in a controlled area accessible only through access gates. |
| | Current Human Receptors | Potential receptors include NAS Jacksonville personnel and civilian personnel, contractors/visitors, and trespassers, although property transfer is pending. |
| | Current Activities | This area is currently not used. |
| | Potential Future Land Use | The Jacksonville Economic Development Commission (JEDC) Reuse Plan provides for future use of the site as a natural and recreational corridor limited to low-intensity recreational users, which include activities such as hiking, biking, horseback riding, birding, and hunting. |
| | Potential Future Human Receptors | Potential future receptors until final property transfer include military and civilian personnel, contractors, visitors, trespassers, and after property transfer maintenance workers, and recreational users of the site (including children). Because Site 15 will be accessible by the public and limited recreational activities (running and hiking along trails) may occur, Site 15 is considered accessible to potential future human receptors. |
| | Potential Future Land Use Related Activities | In accordance with the ROD, the LUC RD, prepared by Tetra Tech in 2009, allows for low-intensity recreational uses including activities such as hiking, biking, horseback riding, birding, and hunting. |

TABLE 5-3

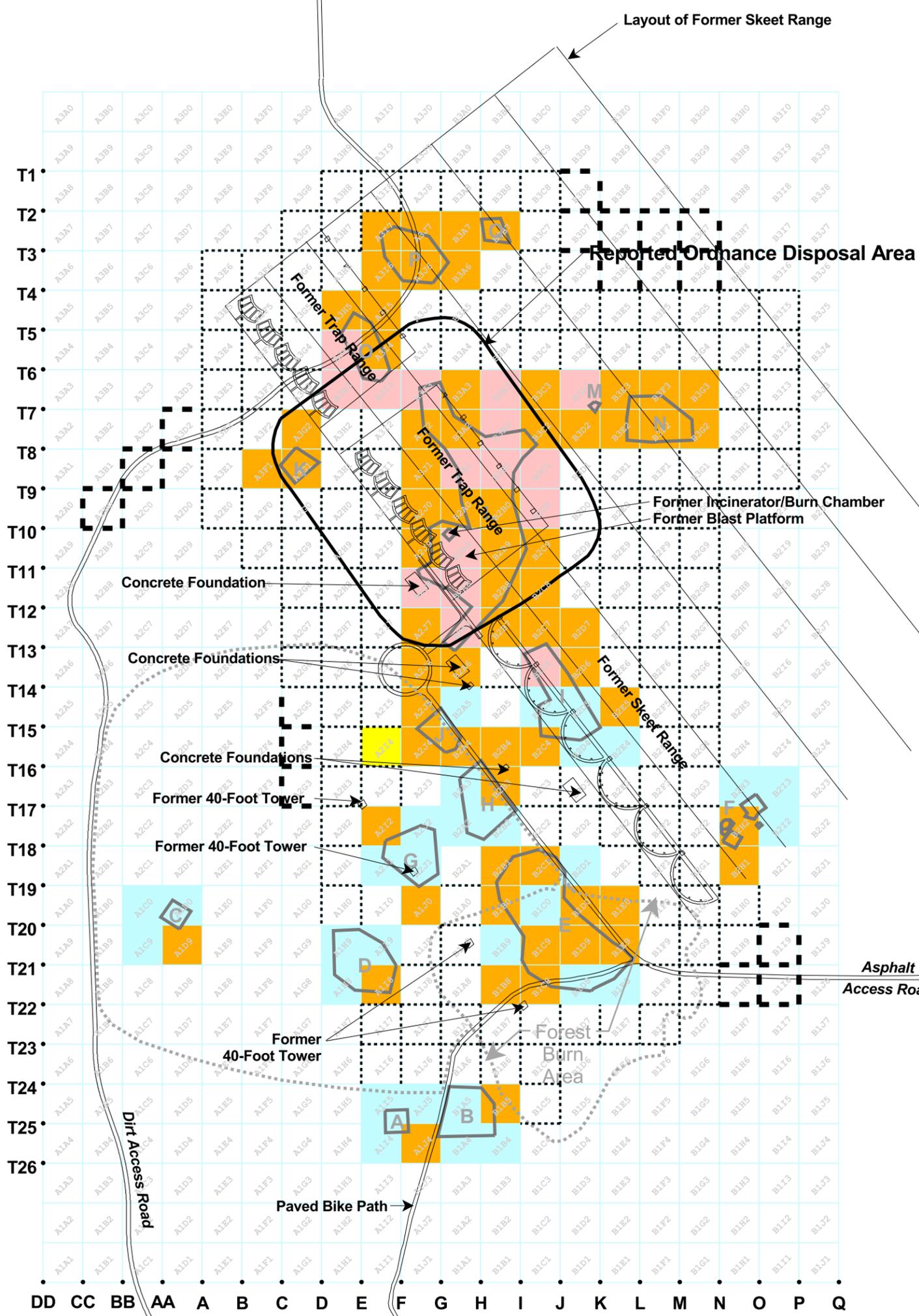
**CONCEPTUAL SITE MODEL INFORMATION PROFILE
OPERABLE UNIT 5, SITE 15, BLUE 10 ORDNANCE DISPOSAL AREA
NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA
PAGE 6 OF 7**

| Profile Type | Information Needs | Findings |
|--|---|--|
| Land Use and Exposure Profile (continued) | Zoning/Land Use Restrictions | Site 15 is currently in a controlled area accessible only through access gates. No man-made attractions can be provided that would entice people, particularly small children, to frequently visit the site, which is consistent with the property's proposed reuse as a natural resource corridor. Medium- (picnicking and camping) and high-intensity (children's playgrounds and contact sports) recreational uses are not permitted. LUCs also prohibit excavation of soil from Site 15 without prior written approval from the Navy, USEPA, and FDEP (Tetra Tech, 2009a). Surface soil to a depth of 6 inches bgs is the expected vertical depth for exposure based on permitted land use (low-intensity recreational activities; however, because of potential erosion, or other changes to the ground surface, a buffer of an additional 6 inches is warranted, resulting in a total vertical depth of 1.0 foot bgs of concern. |
| | Demographics/Zoning | The Duval County population is approximately 857,040 according to the 2009 United States Census Bureau estimate. |
| | Beneficial Resources | There are no known site-specific beneficial resources. |
| Ecological Profile | Habitat Type | This site is covered by a mixed deciduous and conifer forest, wetlands, low shrub, and brushland vegetation. |
| | Degree of Disturbance | Moderate – activities at the site will include development of trails and paths to be used for low-intensity recreational uses including hiking, biking, horseback riding, birding, and hunting. In addition, animals on site such as the gopher tortoise burrow into the soil. |
| | Ecological Receptors and Species of Special Concern | The gopher tortoise, considered threatened by the Florida Committee on Rare and Endangered Plants and Animals (FCREPA), was identified at Site 15. As part of the Site 15 2008/2009 remedial action for soil contamination, gopher tortoise burrows were identified in the planned soil excavation areas and the gopher tortoises were relocated to an area west of the main area cleared of vegetation (AGVIQ-CH2MHill, 2009). In addition, the indigo snake is considered a special status species (protected as threatened under the Endangered Species Act and by the State of Florida), and a protection plan was put in place by NAS Cecil Field. |

TABLE 5-3

**CONCEPTUAL SITE MODEL INFORMATION PROFILE
 OPERABLE UNIT 5, SITE 15, BLUE 10 ORDNANCE DISPOSAL AREA
 NAVAL AIR STATION CECIL FIELD
 JACKSONVILLE, FLORIDA
 PAGE 7 OF 7**

| Profile Type | Information Needs | Findings |
|--|--|--|
| <p>General Exposure Profile</p> | <p>Relationship of MEC/MC Sources to Habitat and Potential Receptors</p> | <p>Exposure to surface MEC is a potentially complete pathway because although no MEC was identified during this RI, MEC has been identified in the past on the surface and MPPEH was identified during the MEC RI. MEC, likely present in the subsurface, would present an explosive hazard to human receptors, if brought to the surface. However, this hazard is low because the primary area of munitions disposal has been remediated to 1.5 to 3.5 feet bgs, and current LUCs for the site limit development of the site to low-intensity recreational activities. The MC pathway is potentially complete for human and ecological receptors. However, MC is considered an insignificant risk because the 2008/2009 remedial action removed contaminated soils from within the currently defined site boundary.</p> |



- Legend**
- Transect
 - Contingency Step-Out Transect
 - ▭ 2008 Soil Excavated Area (A through Q)
 - UXO Grid Number

- 2008 Munitions Surface and Subsurface Clearance Areas:**
- GPO from munitions support of 2008/2009 contaminated soil, reused area for 2010 MEC RI
 - MEC or MEC/MDAS found and removed
 - MDAS only found and removed
 - No MEC or MDAS found although non-munitions related debris may have been present

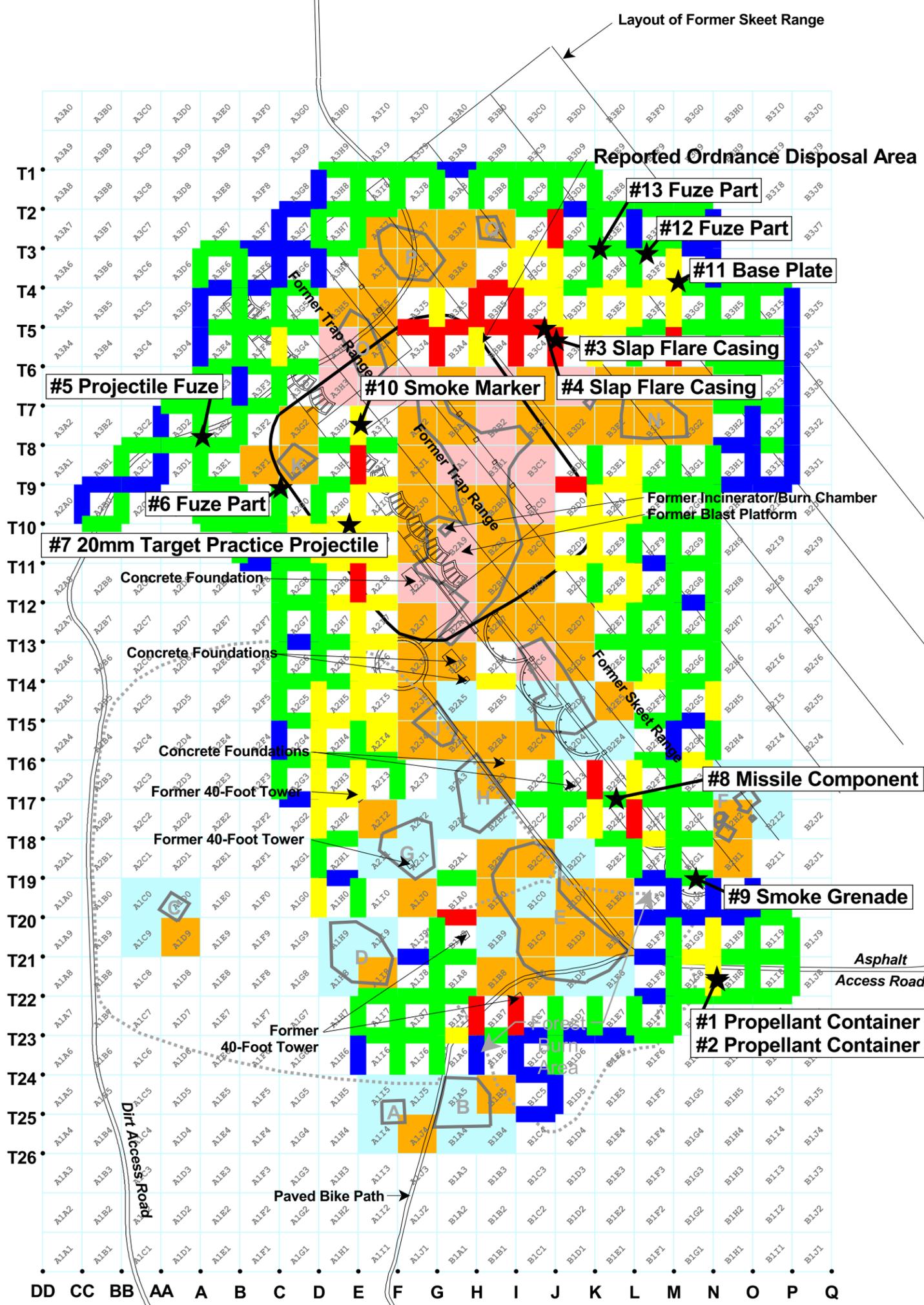


| | |
|--------------------|-----------------|
| DRAWN BY MJJ | DATE 07Jun10 |
| CHECKED BY | DATE |
| COST/SCHEDULE-AREA | |
| SCALE AS NOTED | |



DETECTOR-AIDED SURVEY TRANSECT LOCATIONS
 OPERABLE UNIT 5, SITE 15
 MEC REMEDIAL INVESTIGATION
 NAVAL AIR STATION CECIL FIELD
 JACKSONVILLE, FLORIDA

| | |
|---------------------------|----------|
| CONTRACT NUMBER 2267 | |
| APPROVED BY L. Klink | DATE |
| APPROVED BY | DATE |
| DRAWING NO. FIGURE 5-1 | REV 0 |



- Legend**
- Transect
 - Contingency Step-Out Transect
 - ★ MRP Item
 - 2008 Soil Excavated Area (A through Q)
 - UXO Grid Number
- Transect Anomaly Density**
- No anomalies
 - Low (1 to 5 anomalies)
 - Medium (6 to 20 anomalies)
 - High (21 or more anomalies)

2008 Munitions Surface and Subsurface Clearance Areas:

- GPO from munitions support of 2008/2009 contaminated soil, reused area for 2010 MEC RI
- MEC or MEC/MDAS found and removed
- MDAS only found and removed
- No MEC or MDAS found although non-munitions related debris may have been present

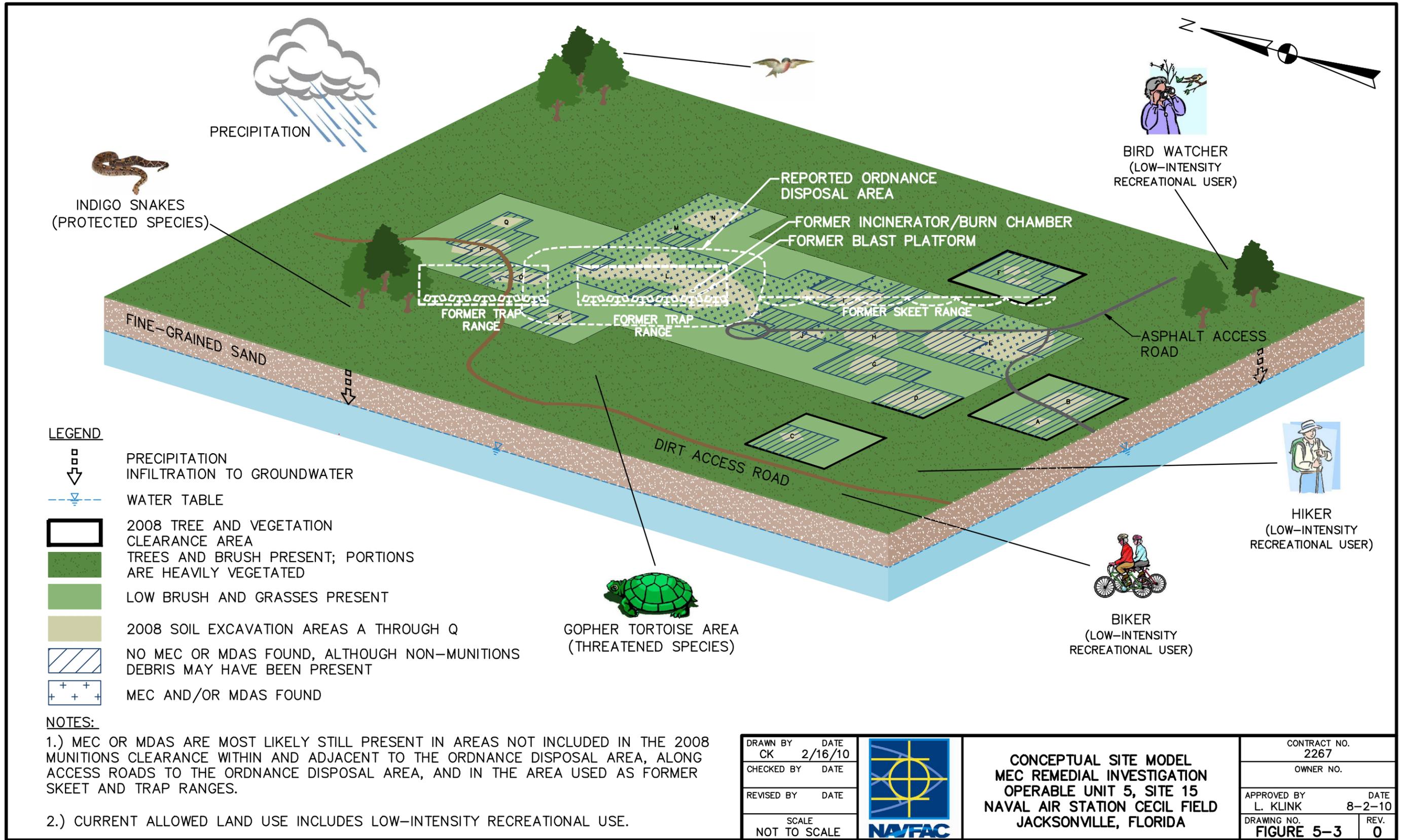


| | |
|--------------------|-----------------|
| DRAWN BY MJJ | DATE 07Jun10 |
| CHECKED BY | DATE |
| COST/SCHEDULE-AREA | |
| SCALE AS NOTED | |



DETECTOR-AIDED SURVEY TRANSECT RESULTS
OPERABLE UNIT 5, SITE 15
MEC REMEDIAL INVESTIGATION
NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA

| | |
|---------------------------|----------|
| CONTRACT NUMBER 2267 | |
| APPROVED BY L. Klink | DATE |
| APPROVED BY | DATE |
| DRAWING NO. FIGURE 5-2 | REV 0 |



LEGEND

- PRECIPITATION
- INFILTRATION TO GROUNDWATER
- WATER TABLE
- 2008 TREE AND VEGETATION CLEARANCE AREA
- TREES AND BRUSH PRESENT; PORTIONS ARE HEAVILY VEGETATED
- LOW BRUSH AND GRASSES PRESENT
- 2008 SOIL EXCAVATION AREAS A THROUGH Q
- NO MEC OR MDAS FOUND, ALTHOUGH NON-MUNITIONS DEBRIS MAY HAVE BEEN PRESENT
- MEC AND/OR MDAS FOUND

NOTES:

- 1.) MEC OR MDAS ARE MOST LIKELY STILL PRESENT IN AREAS NOT INCLUDED IN THE 2008 MUNITIONS CLEARANCE WITHIN AND ADJACENT TO THE ORDNANCE DISPOSAL AREA, ALONG ACCESS ROADS TO THE ORDNANCE DISPOSAL AREA, AND IN THE AREA USED AS FORMER SKEET AND TRAP RANGES.
- 2.) CURRENT ALLOWED LAND USE INCLUDES LOW-INTENSITY RECREATIONAL USE.

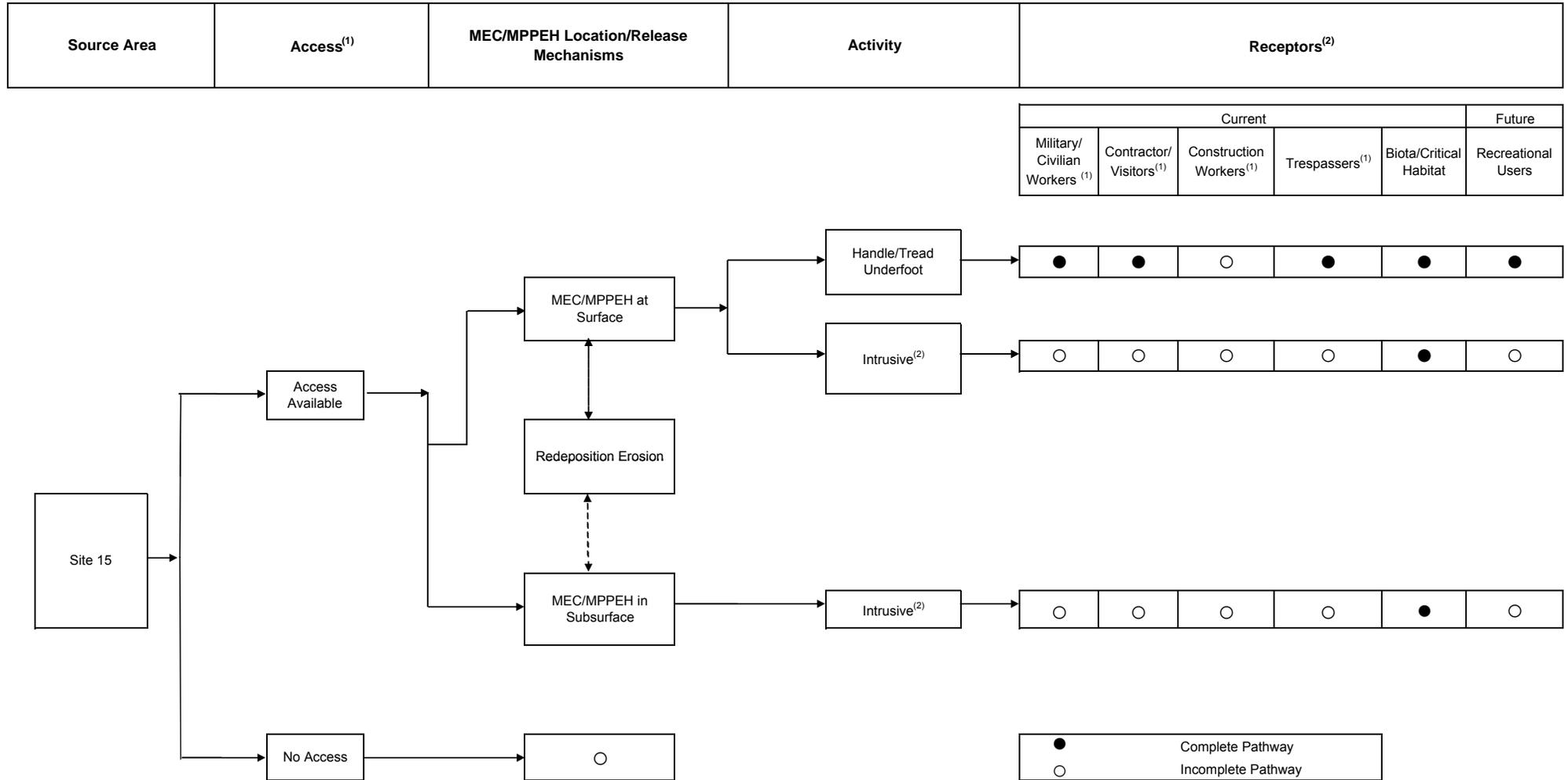
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|------------|--------------|
| DRAWN BY | DATE |
| CK | 2/16/10 |
| CHECKED BY | DATE |
| REVISED BY | DATE |
| SCALE | NOT TO SCALE |



**CONCEPTUAL SITE MODEL
MEC REMEDIAL INVESTIGATION
OPERABLE UNIT 5, SITE 15
NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA**

| | |
|---------------------------|----------------|
| CONTRACT NO. 2267 | |
| OWNER NO. | |
| APPROVED BY L. KLINK | DATE 8-2-10 |
| DRAWING NO. FIGURE 5-3 | REV. 0 |

**FIGURE 5-4
MEC/MPPEH EXPOSURE PATHWAY ANALYSIS
OPERABLE UNIT 5, SITE 15 - BLUE 10 ORDNANCE DISPOSAL AREA
NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA**



1 Property transfer is pending following completion of MEC RI and establishment of a remedy.

2 Land Use Control (LUC) Remedial Design (RD) allows for low-intensity recreational uses including activities such as hiking, biking, horseback riding, birding, and hunting. No man-made attractions can be provided that would entice people, particularly small children, to frequently visit the site, which is consistent with the property's proposed reuse as a natural resource corridor. Medium- (picnicking and camping) and high-intensity (children's playgrounds and contact sports) recreational uses are not permitted. Residential and industrial/commercial uses are also prohibited.

REFERENCES

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APPENDIX A

SUPPLEMENTAL HISTORICAL DATA

APPENDIX A-1

SUPPLEMENTAL HISTORICAL DATA - CHEMICAL CONTAMINATION

SUPPLEMENTAL HISTORICAL DATA – CHEMICAL CONTAMINATION

The following provides information used to develop the conceptual site model and support the data quality objectives for munitions and explosives of concern (MEC) Remedial Investigation (RI) at Site 15. The evaluation is used to support that only MEC investigation is necessary for the remedial investigation; investigation of MC is not required at this time because sufficient investigation and remediation of chemical contaminants at Site 15 have been conducted. (However, if MEC or MD items are found outside of the area investigated for chemical contaminants, further evaluation of the need for MC investigation may need to be conducted in the future).

The remedial action was conducted in 2008 and 2009 and included removal of soil contaminated with polycyclic aromatic hydrocarbons (PAHs), metals, and total recoverable petroleum hydrocarbons (TRPH) from 17 excavation areas (A to Q). Based on the findings of a MEC Preliminary Assessment/Site Inspection (PA/SI) conducted in 2007 (CH2MHill, 2007) MEC removal was necessary before soil excavation activities for the remedial action could proceed. As part of the remedial action, tree and vegetation clearance and clearance for MEC were conducted in portions of the site prior to soil excavation.

Various investigations of chemical contamination were conducted and the results were presented in the RI Report (ABB-ES, October 1997). The areas of contamination at Site 15 are associated with the ordnance disposal area and old skeet and trap ranges. Chemical contamination was found associated with these sources as well as forest burn activities. Contaminants of Concern (COCs) were identified and the extent of contamination determined. The Record of Decision (ROD) (Tetra Tech, 2008) specified removal of contamination soil to meet current land use and to prevent unacceptable ecological exposure.

Soil sampling location figures supporting this evaluation are attached (Figures 1, 2, and 3) and show the extent of the comprehensive chemical investigation at Site 15. PAHs and lead contamination, respectively, are likely the result of clay pigeons/forest burn and lead shot from the skeet and trap operations. The extent of lead and PAH contaminated soil was delineated and contaminated soil excavated to meet current land use requirements. Similarly, the extent of TRPH contaminated soil has been delineated and excavated to meet current land use. Environmental investigations show that other organic compounds, dioxins, perchlorate, nitroaromatics, and other Target Analyte List (TAL) metals are not COCs. Although nitroglycerin (propellant) has not been investigated, soil in the area where propellant would be expected (reportedly rocket propellant was reportedly placed on the ground, ignited, and presumed to be consumed) in the area of the burn chamber was removed during the 2008/2009 soil removal effort. Groundwater concentrations were not at levels of concern, although note that one monitoring well remains on site (see Figure 4) to further assess arsenic.

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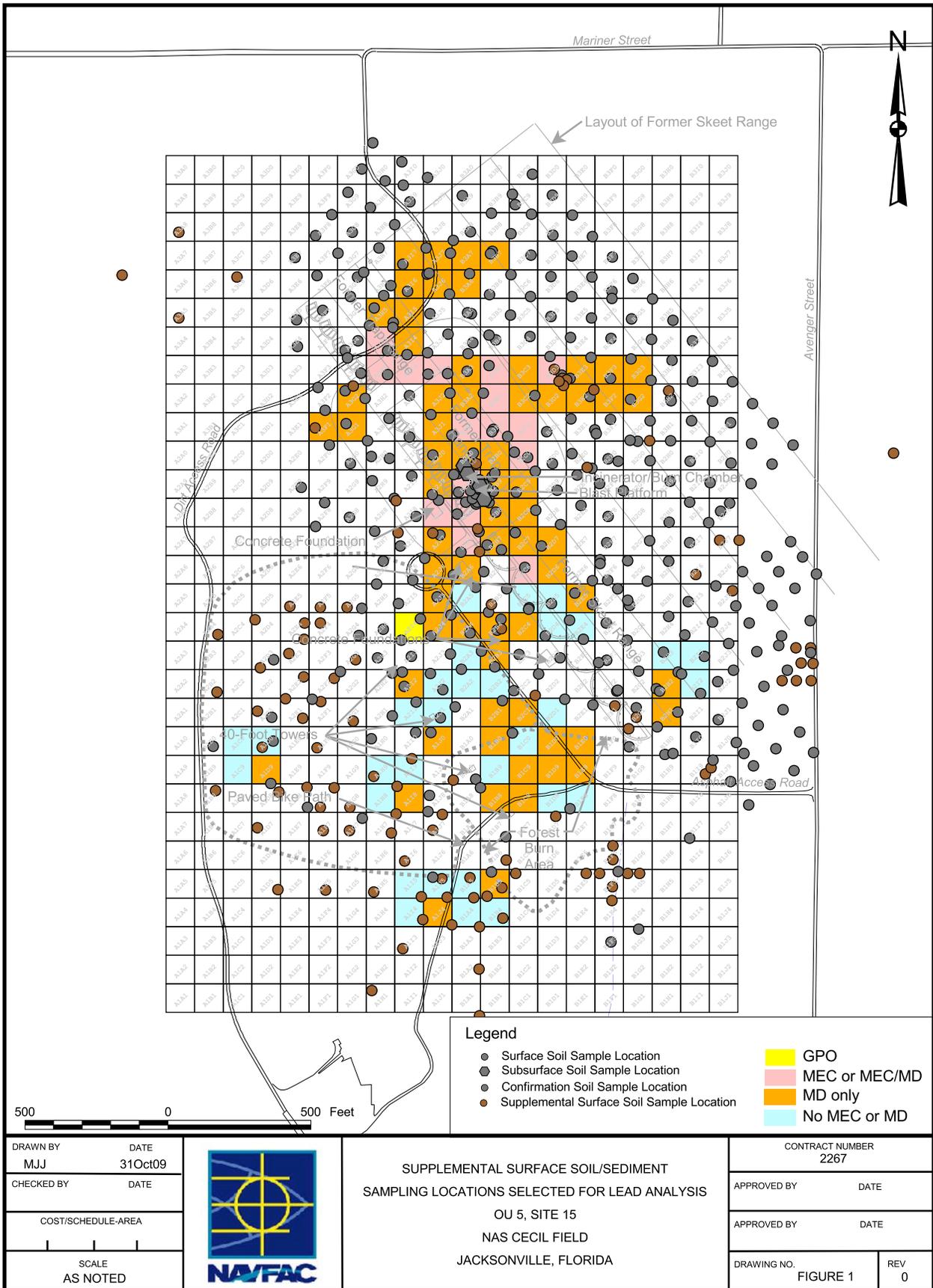
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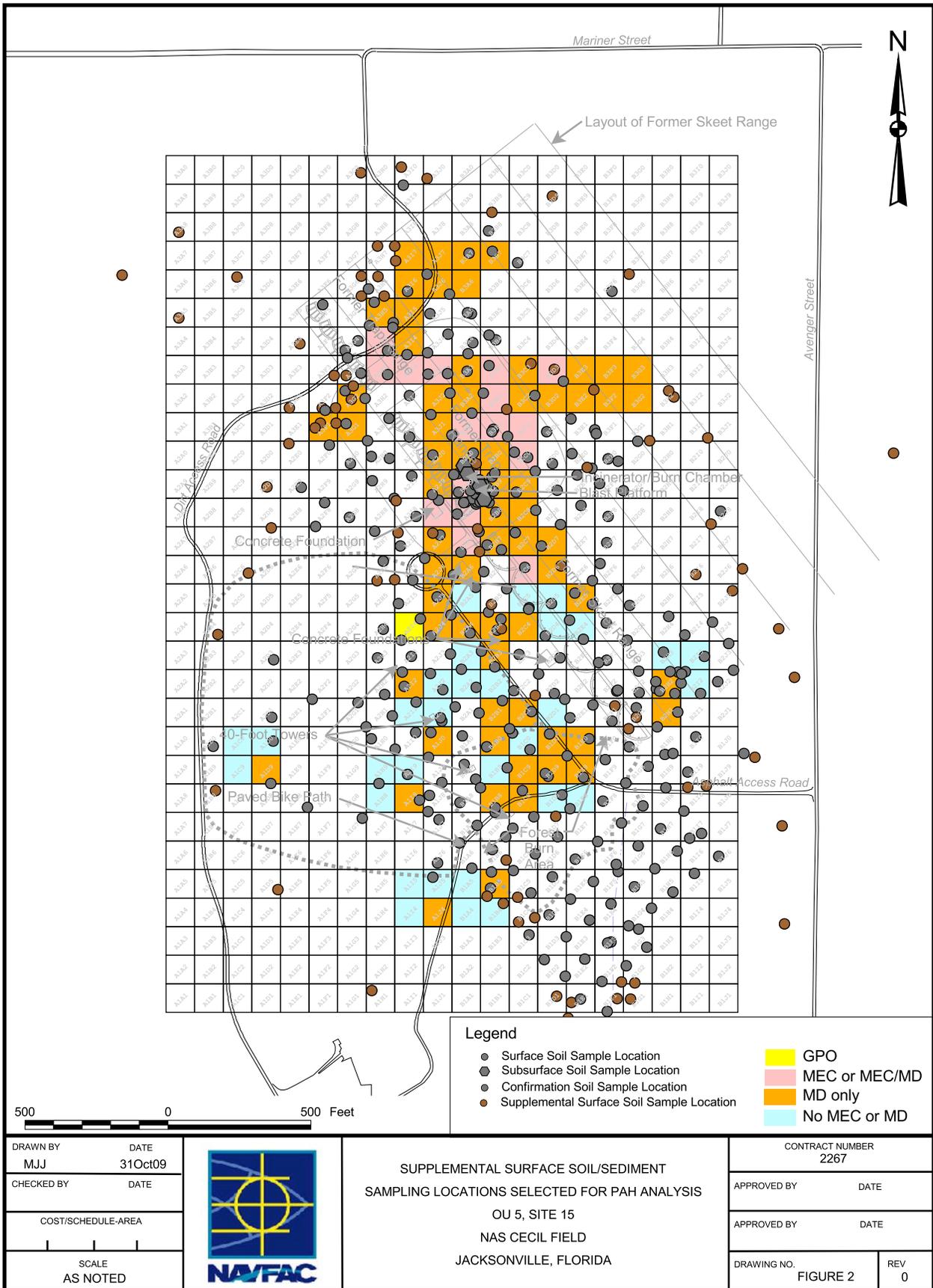


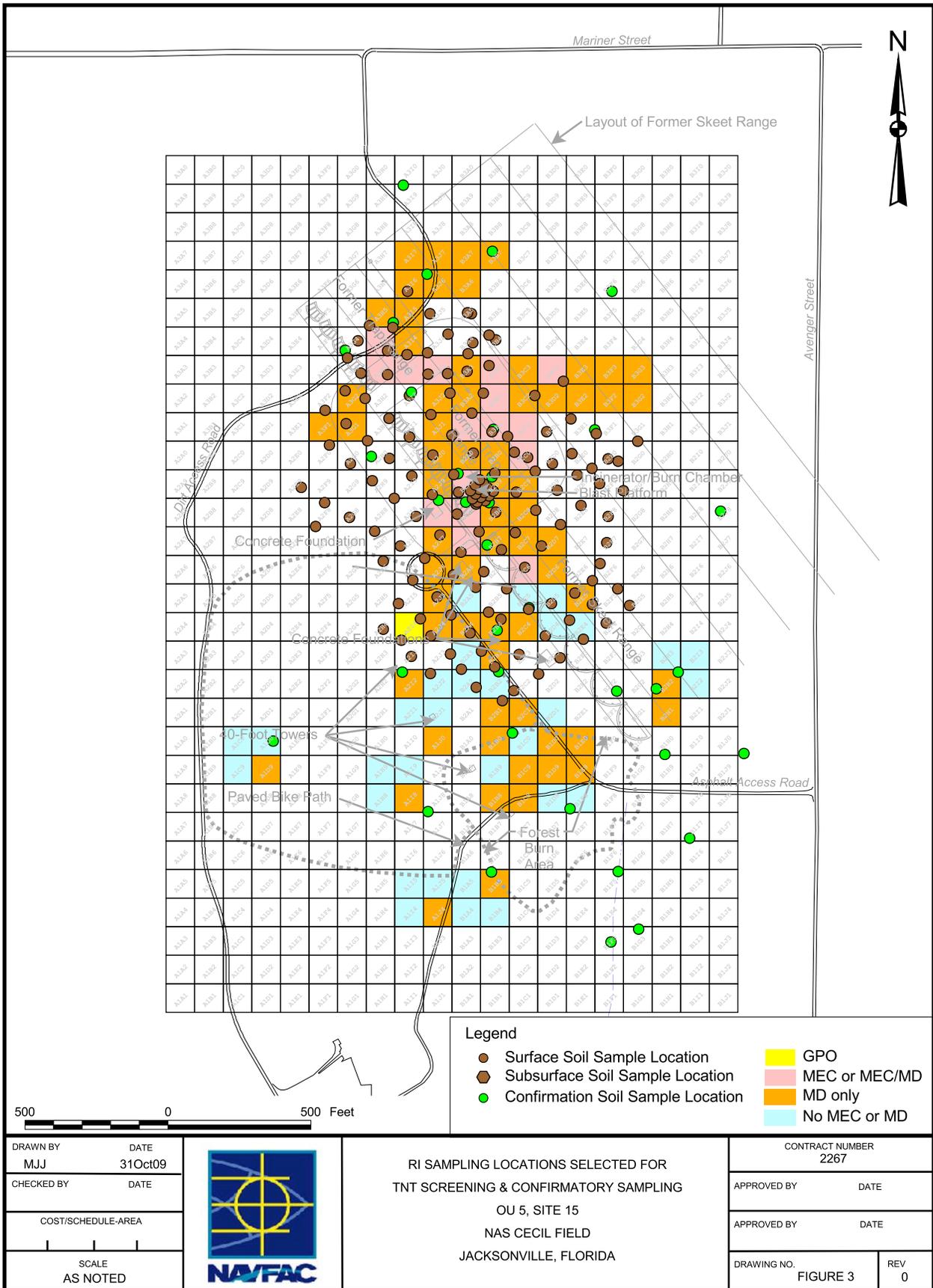
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| DRAWN BY MJJ | DATE 31Oct09 |
| CHECKED BY | DATE |
| COST/SCHEDULE-AREA | |
| SCALE AS NOTED | |



**SUPPLEMENTAL SURFACE SOIL/SEDIMENT
 SAMPLING LOCATIONS SELECTED FOR LEAD ANALYSIS
 OU 5, SITE 15
 NAS CECIL FIELD
 JACKSONVILLE, FLORIDA**

| | |
|-------------------------|----------|
| CONTRACT NUMBER 2267 | |
| APPROVED BY | DATE |
| APPROVED BY | DATE |
| DRAWING NO. FIGURE 1 | REV 0 |



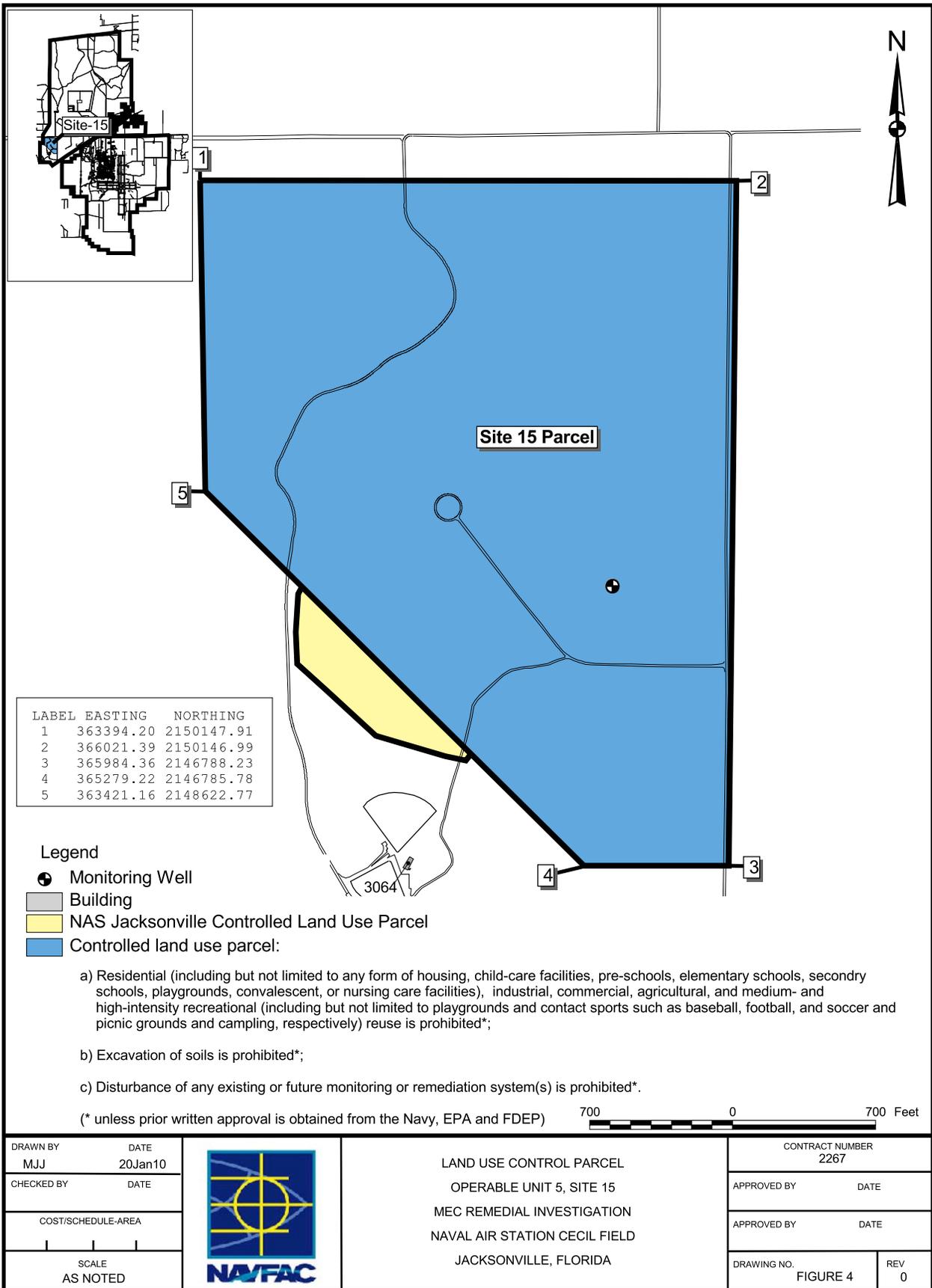


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|--------------------|-----------------|
| DRAWN BY MJJ | DATE 31Oct09 |
| CHECKED BY | DATE |
| COST/SCHEDULE-AREA | |
| SCALE AS NOTED | |



RI SAMPLING LOCATIONS SELECTED FOR
TNT SCREENING & CONFIRMATORY SAMPLING
OU 5, SITE 15
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

| | |
|-------------------------|----------|
| CONTRACT NUMBER 2267 | |
| APPROVED BY | DATE |
| APPROVED BY | DATE |
| DRAWING NO. FIGURE 3 | REV 0 |



APPENDIX A-2

SUPPLEMENTAL HISTORICAL DATA - MEC

SUPPLEMENTAL HISTORICAL DATA – MEC

The following provides information on munitions surveys conducted in support of the 2008/2009 contaminated soil removal effort. This information summarizes the munitions survey results and, in doing so, supports the presumption that no further munitions and explosives of concern (MEC) investigation is needed in those grids previously addressed and aids in planning the Remedial Investigation (RI).

The remedial action was conducted in 2008 and 2009 and included removal of soil contaminated with polycyclic aromatic hydrocarbons (PAHs), metals, and total recoverable petroleum hydrocarbons (TRPH) from 17 excavation areas (A to Q). Based on the findings of a MEC Preliminary Assessment/Site Inspection (PA/SI) conducted in 2007 (CH2MHill, 2007) MEC removal was necessary before soil excavation activities for the remedial action could proceed. As part of the remedial action, tree and vegetation clearance and clearance for MEC were conducted in portions of the site prior to soil excavation. The MEC-related remedial action activities related to soil removal are discussed in the Remedial Action Completion Report for Soil Remedial Activities (AGVIQ-Ch2MHill, August 2009 [Draft]).

The MEC removal included subdivision of Site 15 through land survey (100 feet by 100 feet grid cells), vegetation reduction, MEC surface clearance, digital geophysical mapping (DGM) with EM61-MK2 Time-domain Metal Detection and identification of target anomalies, manual and mechanical-aided intrusive investigation of target anomalies identified through DGM, and demolition of MEC items. The munitions survey included 100 percent clearance to 2 feet below ground surface (bgs) and removal of MEC and munitions debris (MD) from the grids included in the survey. The munitions clearance included geophysical prove-out (GPO) and appropriate QC as discussed further in the Remedial Action Completion Report for Soil Removal Action (AGVIQ-Ch2MHill, August 2009). Additional detail on the items found and removed are in the attached grid tracking table.

Munitions clearance activities as part of the remedial activities included the following:

- MEC avoidance as part of activities included unexploded ordnance (UXO) Technician III conducting a reconnaissance of the associated areas. Work locations and access routes were visually checked for anomalies using a magnetometer. Access routes were twice the width of the widest vehicle and clearly marked to prevent personnel from straying into non-cleared areas.
 - No anomalies were reported during pre-excavation sampling
 - No anomalies were reported (gopher tortoise survey and trapping and relocation activities)
 - No anomalies were reported for collection of soil samples for soil treatability study
 - MEC avoidance was conducted during tree and vegetation removal

- Subdivision of Site 15 through land survey into 600 100-foot by 100-foot grids for use for survey and clearance.
- Vegetation reduction.
- MEC surface clearance of 22 acres consisting of an instrument-assisted surface clearance. Surface clearance for MD was performed that included visual search of the surface, augmented with addition of handheld magnetometers to locate and remove MEC (including small arms) and ferrous items 2-inch by 2-inch and larger from the soil surface. Surface/near-surface search efforts were completed to identify MEC for assessment and disposition options; MPPEH was recovered for consolidated storage and processing, surface solid waste was collected, and MEC determined unsafe to move was flagged-in-place. Surface clearance included 114 grids.
- DGM with EM61-MK2 Time-domain Metal Detection and identification of target anomalies (included GPO grid for testing of equipment and personnel). DGM sweeps covering the 114 grids were conducted. Following selection of potential subsurface anomalies, a Nomad GPS RTK system was used to reacquire the anomalies for investigation.
- Manual and mechanical-aided intrusive investigation of target anomalies identified through DGM except for several grids in excavation area L, 100 percent of DGM-identified anomalies were excavated. Anomaly investigation included soil removal to identify the source of the anomaly. Focused investigations were also applied where anomaly investigations did not provide sufficient information to identify the source of the anomaly. Grids in excavation area L where intrusive investigation was only conducted in the excavation region are A2J0, A2J8, A2J9, A3J2, B2A0, B2A8, B2A9, B2B0, B2B8, B2B9, B3A1, B3A2, and B3B1
- Demolition of MEC items.

The table below provides the MEC items identified and removed during the clearance. All of the MEC items were found in the areas surveyed within or nearby the former ordnance disposal area. MD was found in and around the ordnance disposal area, in the former skeet range, and along access roads to the ordnance disposal area.

| Grid | MEC items found | Surface or Subsurface |
|-------------|---------------------------------|------------------------------|
| A2J8 | One 20 mm TP projectile full up | Subsurface |
| A3H3 | One 20 mm Tp projectile full up | Surface |
| A3H4 | One M204 Practice mine Fuze | Subsurface |
| A3I3 | Six M204 Practice mine Fuzes | Subsurface |
| A3J3 | Two M204 Practice Mine Fuzes | Subsurface |

| Grid | MEC items found | Surface or Subsurface |
|-------------|--|------------------------------|
| B2A7 | Two M204 Practice Mine Fuzes and one M112 Photoflash cartridge | Subsurface |
| B2A8 | One M208 20 mm TP | Surface |
| B2A9 | Two 20 mm Tp projectiles full up | Subsurface |
| B2C0 | Three M204 Practice Mine Fuzes | Subsurface |
| B2C6 | One 20 mm projectile HE | Subsurface |
| B3A1 | One aircraft launched flare | Surface |
| B3B1 | Two Mk4 Spotting Charges | Subsurface |
| B3B2 | One M204 Practice Mine Fuze | Subsurface |
| B3B3 | Two M204 Practice Mine Fuzes | Subsurface |
| B3C1 | One BLU – 26/B Submunition Inert Bomblet | Subsurface |
| B3D3 | One M204 Practice Mine Fuze | Subsurface |

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From: Michael.Halil@CH2M.com [mailto:Michael.Halil@CH2M.com]
Sent: Tuesday, January 26, 2010 10:50 AM
To: Simcik, Robert
Cc: Noah.Weinberg@CH2M.com; Jeffery.Marks@CH2M.com
Subject: Site 15 Intrusive Investigation Results

Rob-

Attached is the draft table of intrusive investigation results for the removal action at Site 15. I think the columns are pretty self-explanatory but here are a few notes:

Column A - Target ID; Grid-#
Column B/C - Coordinates
Column D - Geophysical Response associated with the anomaly
Column E - What the item was classified as
Column F - Description of Item
Column G - Item depth in inches
Column H - Item weight in pounds
Column I - If item was considered frag
Column J - Where the item was placed

You'll see large areas of highlighted information. This is where the density of finds was so large that it couldn't be tracked effectively. I'll work to get more information for these bulk areas.

Thanks and let me know if you have any questions.

Jeff/Noah-Anything that I left off or not accurate?

Mike

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www.ch2mhill.com

| Grid | Vegetation Clearance Complete | Surface Clearance Comments | lbs of MD removed During Surface Sweep | Surface Clearance Completion Date | Digital Geophysical Mapping Comments | Digital Geophysical Completion Date | Number of Point Intrusive Anomalies | Intrusive Investigation Comments | Intrusive Investigation Completion Date | Lbs of MD removed during Subsurface Sweep |
|------|-------------------------------|---|--|-----------------------------------|--------------------------------------|-------------------------------------|-------------------------------------|----------------------------------|---|---|
| A1C0 | Yes | Swept North to South 37 lbs Non-MD Related Scrap 0 MEC | 0 | 4/8/2008 | | 5/15/2008 | 51 | | 6/9/2008 | 0 |
| A1C9 | Yes | Swept North to South 17 lbs Non-MD Related Scrap 0 MEC | 0 | 4/8/2008 | | 5/15/2008 | 54 | | 6/3/2008 | 0 |
| A1D0 | Yes | Swept North to South 0 MEC 7 lbs Non-MD Related Scrap | 0 | 4/8/2008 | | 5/7/2008 | 31 | | 6/2/2008 | 0 |
| A1D9 | Yes | Swept North to South 6 lbs Non-MD Related Scrap 0 MEC | 0 | 4/8/2008 | | 5/7/2008 | 31 | | 5/30/2008 | 2 |
| A1H8 | Yes | Swept East to West 1 lbs Non-MD Related Scrap 0 MEC | 0 | 4/1/2008 | | 5/7/2008 | 2 | polygon is a Monitoring Well | 5/28/2008 | 0 |
| A1H9 | Yes | Swept North to South 1 lbs Non-MD Related Scrap 0 MEC | 0 | 4/1/2008 | | 5/7/2008 | 9 | | 5/28/2008 | 0 |
| A1I4 | Yes | Swept East to West 1 lbs Non-MD Related Scrap 0 MEC | 0 | 4/7/2008 | | 5/13/2008 | 16 | | 5/19/2008 | 0 |
| A1I5 | Yes | Swept East to West 1 lbs Non-MD Related Scrap Gopher Tortes Hole 0 MEC | 0 | 4/7/2008 | | 5/5/2008 | 9 | | 5/19/2008 | 0 |
| A1I8 | Yes | 1/2 Swept North to South 1/2 Swept East to West 1 lbs Non-MD Related Scrap 0 MEC | 0 | 4/1/2008 | | 5/7/2008 | 10 | | 5/28/2008 | 1 |
| A1I9 | Yes | Swept East to West 3 lbs Non-MD Related Scrap 0 MEC | 0 | 4/1/2008 | | 5/7/2008 | 2 | | 5/28/2008 | 0 |
| A1J0 | Yes | Swept North to South 1 lbs Non-MD Related Scrap 0 MEC | 0 | 4/1/2008 | | 5/1/2008 | 17 | | 5/21/2008 | 12 |
| A1J4 | Yes | Swept East to West 1 lbs Non-MD Related Scrap 0 MEC | 0 | 4/7/2008 | | 5/6/2008 | 18 | polygon is forestry sign | 5/14/2008 | 1 |
| A1J5 | Yes | Swept East to West 1 lbs Non-MD Related Scrap 0 MEC | 0 | 4/7/2008 | | 5/5/2008 | 7 | | 5/14/2008 | 0 |
| A2I1 | Yes | Swept North to South 3 lbs Non-MD Related Scrap 0 MEC | 0 | 3/31/2008 | | 5/8/2008 | 22 | | 5/16/2008 | 0 |
| A2I2 | Yes | Swept North to South 1 lbs Non-MD Related Scrap 0 MEC | 0 | 3/31/2008 | | 5/8/2008 | 24 | | 5/16/2008 | 1 |

| Grid | Vegetation Clearance Complete | Surface Clearance Comments | lbs of MD removed During Surface Sweep | Surface Clearance Completion Date | Digital Geophysical Mapping Comments | Digital Geophysical Completion Date | Number of Point Intrusive Anomalies | Intrusive Investigation Comments | Intrusive Investigation Completion Date | Lbs of MD removed during Subsurface Sweep |
|------|-------------------------------|--|--|-----------------------------------|--------------------------------------|-------------------------------------|-------------------------------------|---|---|---|
| A2I4 | Yes | GPO | 0 | 4/12/2008 | | 5/6/2008 | N/A | | N/A | 0 |
| A2J0 | Yes | Swept North to South 29 lbs Non-MD Related Scrap 0 MEC | 32 | 4/30/2008 | | 5/20/2008 | 132 | Mag And Dig in Excavation regions only | 8/6/2008 | 4600 |
| A2J1 | Yes | Swept North to South 8 lbs Non-MD Related Scrap 0 MEC | 0 | 3/31/2008 | | 5/1/2008 | 15 | | 5/20/2008 | 0 |
| A2J2 | Yes | Swept North to South 0 lbs Non-MD Related Scrap 0 MEC | 0 | 3/31/2008 | | 5/1/2008 | 5 | | 5/22/2008 | 0 |
| A2J4 | Yes | Swept North to South 26 lbs Non-MD Related Scrap 0 MEC | 0 | 4/11/2008 | | 5/13/2008 | 47 | | 6/17/2008 | 1 |
| A2J5 | Yes | Swept North to South 49 lbs Non-MD Related Scrap 0 MEC | 0 | 4/11/2008 | | 5/15/2008 | 105 | grid was reswept. failed info pro QC process | 6/23/2008 | 5 |
| A2J6 | Yes | Swept East to West 150 lbs Non-MD Related Scrap 0 MEC | 3 | 4/24/2008 | | 5/14/2008 | 109 | | 6/23/2008 | 4 |
| A2J7 | Yes | Swept East to West 300 lbs Non-MD Related Scrap 0 MEC (1) Mk 7 Marine Marker | 8 | 4/24/2008 | | 5/14/2008 | 63 | | 7/3/2008 | 8 |
| A2J8 | Yes | Swept East to West 0 lbs of Non-MD Related Scrap 0 MEC | 100 | 4/25/2008 | | 5/14/2008 | 83 | Mag And Dig in Excavation regions only 20mm TP Projectile Full Up | 7/18/2008 | 4600 |
| A2J9 | Yes | Swept East to West 600 lbs Non-MD Related Scrap 0 MEC | 12 | 4/25/2008 | | 5/20/2008 | 173 | Mag And Dig in Excavation regions only | 7/25/2008 | 4600 |
| A3F1 | Yes | Swept East to West 12 lbs Non-MD Related Scrap 0 MEC | 0 | 5/1/2008 | | 5/29/2008 | 82 | | 7/7/2008 | 54 |
| A3G1 | Yes | Swept East to West 39 lbs Non-MD Related Scrap 0 MEC | 0 | 5/1/2008 | | 5/29/2008 | 116 | | 7/7/2008 | 16 |
| A3G2 | Yes | Swept East to West 57 lbs Non-MD Related Scrap 0 MEC | 0 | 5/1/2008 | | 5/29/2008 | 95 | | 7/9/2008 | 26 |
| A3H3 | Yes | Swept East to West 140 lbs Non-MD Related Scrap 1 MEC Item - 20mm TP Full Up Round | 7 | 5/6/2008 | | 5/28/2008 | 116 | | 7/16/2008 | 51 |

| Grid | Vegetation Clearance Complete | Surface Clearance Comments | lbs of MD removed During Surface Sweep | Surface Clearance Completion Date | Digital Geophysical Mapping Comments | Digital Geophysical Completion Date | Number of Point Intrusive Anomalies | Intrusive Investigation Comments | Intrusive Investigation Completion Date | Lbs of MD removed during Subsurface Sweep |
|------|-------------------------------|---|--|-----------------------------------|--------------------------------------|-------------------------------------|-------------------------------------|---|---|---|
| A3H4 | Yes | Swept North to South 24 lbs Non-MD Related Scrap 0 MEC | 0 | 5/6/2008 | | 5/28/2008 | 101 | (1) M204 Practice Mine Fuze | 7/9/2008 | 67 |
| A3H5 | Yes | Swept North to South 2 lbs Non-MD Related Scrap 0 MEC | 0 | 8/7/2008 | | 5/28/2008 | 56 | | 7/9/2008 | 31 |
| A3I3 | Yes | Swept East to West 120 lbs Non-MD Related Scrap 0 MEC | 2 | 5/5/2008 | | 5/28/2008 | 178 | (6) M204 Practice Mine Fuze | 7/14/2008 | 99 |
| A3I4 | Yes | Swept North to South 300 lbs Non-MD Related Scrap 0 MEC | 0 | 5/6/2008 | | 5/28/2008 | 119 | | 7/11/2008 | 38 |
| A3I5 | Yes | Swept North to South 2 lbs Non-MD Related Scrap 0 MEC | 0 | 5/7/2008 | | 5/28/2008 | 52 | | 7/9/2008 | 31 |
| A3I6 | Yes | Swept North to South 0 lbs Non-MD Related Scrap 0 MEC | 0 | 5/7/2008 | | 5/27/2008 | 42 | | 7/14/2009 | 27 |
| A3I7 | Yes | Swept North to South 0 lbs Non-MD Related Scrap 0 MEC | 0 | 5/7/2008 | | 5/28/2008 | 26 | | 7/17/2009 | 14 |
| A3J1 | Yes | Swept North to South 0 lbs Non-MD Related Scrap 0 MEC | 22 | 4/29/2008 | | 5/20/2008 | 178 | | | 0 |
| A3J2 | Yes | Swept East to West 400 lbs Non-MD Related Scrap 0 MEC | 17 | 5/5/2008 | | 5/20/2008 | 220 | Mag And Dig in Excavation regions only | 9/10/2008 | 4600 |
| A3J3 | Yes | Swept East to West 8 lbs Non-MD Related Scrap 0 MEC | 0 | 5/5/2008 | | 5/20/2008 | 188 | (2) M204 Practice Mine Fuze | 8/4/2009 | 59 |
| A3J6 | Yes | Swept North to South 50 lbs Non-MD Related Scrap 0 MEC | 0 | 5/8/2008 | | 5/27/2008 | 39 | | 7/17/2009 | 12 |
| A3J7 | Yes | Swept North to South 0 lbs Non-MD Related Scrap 0 MEC | 0 | 5/7/2008 | | 5/28/2008 | 26 | | 7/17/2009 | 11 |
| B1A4 | Yes | Swept East to West 0 Non-MD Related Scrap 0 MEC | 0 | 4/4/2008 | | 5/6/2008 | 28 | | 5/13/2008 | 0 |
| B1A5 | Yes | Swept East to West 1 lbs Non-MD Related Scrap 0 MEC | 0 | 4/4/2008 | | 5/5/2008 | 9 | polygon is fence post left from soil samples | 5/13/2008 | 0 |
| B1B0 | Yes | Swept North to South 1 lbs Non-MD Related Scrap 0 MEC | 0 | 4/10/2008 | | 5/12/2008 | 16 | | 6/10/2008 | 1 |

| Grid | Vegetation Clearance Complete | Surface Clearance Comments | lbs of MD removed During Surface Sweep | Surface Clearance Completion Date | Digital Geophysical Mapping Comments | Digital Geophysical Completion Date | Number of Point Intrusive Anomalies | Intrusive Investigation Comments | Intrusive Investigation Completion Date | Lbs of MD removed during Subsurface Sweep |
|------|-------------------------------|--|--|-----------------------------------|--------------------------------------|-------------------------------------|-------------------------------------|--|---|---|
| B1B4 | Yes | Swept East to West 1 lbs Non-MD Related Scrap 0 MEC | 0 | 4/4/2008 | | 5/6/2008 | 15 | | 5/13/2008 | 0 |
| B1B5 | Yes | Swept North to South 1 lbs Non-MD Related Scrap 0 MEC | 0 | 4/4/2008 | | 5/5/2008 | 10 | | 5/13/2008 | 5 |
| B1B8 | Yes | Swept East to West 0 lbs Non-MD Related Scrap 0 MEC | 3 | 4/8/2008 | | 5/2/2008 | 17 | polygon is an antenna foundation | 5/14/2008 | 2 |
| B1B9 | Yes | Swept North to South 1 lbs Non-MD Related Scrap 0 MEC | 0 | 4/4/2008 | | 5/1/2008 | 23 | | 5/14/2008 | 0 |
| B1C0 | Yes | Swept North to South 1 lbs Non-MD Related Scrap 0 MEC | 0 | 4/10/2008 | | 5/12/2008 | 26 | | 5/19/2008 | 0 |
| B1C8 | Yes | Swept East to West 0 lbs Non-MD Related Scrap 0 lbs MEC | 47 | 4/9/2008 | | 5/2/2008 | 44 | | 5/16/2008 | 0 |
| B1C9 | Yes | Swept North to South 0 lbs Non-MD Related Scrap 0 MEC | 8 | 4/4/2008 | | 5/6/2008 | 10 | | 5/15/2008 | 0 |
| B1D0 | Yes | Swept North to South 0 lbs Non-MD Related Scrap 0 MEC | 27 | 4/9/2008 | | 5/12/2008 | 28 | | 5/29/2008 | 0 |
| B1D8 | Yes | Swept East to West 12 lbs Non-MD Related Scrap 0 MEC | 0 | 4/21/2008 | | 5/6/2008 | 20 | | 5/30/2008 | 0 |
| B1D9 | Yes | Swept East to West 0 lbs Non-MD Related Scrap 0 MEC | 39 | 4/9/2008 | | 5/6/2008 | 28 | | 6/10/2008 | 0 |
| B1E0 | Yes | Swept North to South 0 lbs Non-MD Related Scrap Failed Info Pro QC. Reswept on 4/14/2008 | 17 | 4/14/2008 | | 5/12/2008 | 14 | | 5/30/2008 | 1 |
| B1E8 | Yes | Swept East to West 12 lbs Non-MD Related Scrap 0 MEC galvanized wire fence cutting in grid, used magnetic pick-up devise. | 0 | 4/22/2008 | | 5/6/2008 | 15 | | 5/29/2008 | 0 |
| B1E9 | Yes | Swept East to West 0 lbs Non-MD Related Scrap 0 MEC | 33 | 4/9/2008 | | 5/15/2008 | 45 | | 6/12/2008 | 1 |
| B2A0 | Yes | Swept North to South 0 lbs Non-MD Related Scrap 0 MEC | 43 | 4/30/2008 | | 5/15/2008 | 0 | Mag And Dig in Excavation regions only | 10/29/2008 | 4600 |

| Grid | Vegetation Clearance Complete | Surface Clearance Comments | lbs of MD removed During Surface Sweep | Surface Clearance Completion Date | Digital Geophysical Mapping Comments | Digital Geophysical Completion Date | Number of Point Intrusive Anomalies | Intrusive Investigation Comments | Intrusive Investigation Completion Date | Lbs of MD removed during Subsurface Sweep |
|------|-------------------------------|---|--|-----------------------------------|--------------------------------------|-------------------------------------|-------------------------------------|---|---|---|
| B2A2 | Yes | Swept North to South 2 lbs Non-MD Related Scrap 0 MEC | 0 | 4/10/2008 | | 5/12/2008 | 36 | | 6/13/2008 | 0 |
| B2A3 | Yes | Swept North to South 9lbs Non-MD Related Scrap 0 MEC found .3030 rifle in grid @ N30 14 22.4 W081 55 22.4 | 0 | 4/11/2008 | | 5/12/2008 | 23 | | 6/13/2008 | 0 |
| B2A4 | Yes | Swept North to South 0 lbs Non-MD Related Scrap 0 MEC | 33 | 4/17/2008 | | 5/13/2008 | 66 | | 6/16/2008 | 0 |
| B2A5 | Yes | Swept North to South 0 lbs Non-MD Related Scrap 0 MEC | 0 | 4/22/2008 | | 5/14/2008 | 122 | | 6/20/2008 | 0 |
| B2A6 | Yes | Swept North to South 975 lbs Non-MD Related Scrap 0 MEC | 0 | 4/23/2008 | | 5/14/2008 | 111 | | 6/20/2008 | 3 |
| B2A7 | Yes | Swept East to West 750 lbs Non-MD Related Scrap 0 MEC | 0 | 4/23/2008 | | 5/14/2008 | 118 | (2) M204 Practice Mine Fuze (1) M112 Photoflash Cartridge | 7/3/2008 | 9 |
| B2A8 | Yes | Swept East to West 0 lbs Non-MD Related Scrap 1 MEC item - 1 each M208 20mm TP | 121 | 4/24/2008 | | 5/14/2008 | 101 | Mag And Dig in Excavation regions only | 8/12/2008 | 4600 |
| B2A9 | Yes | Swept North to South 0 lbs Non-MD Related Scrap 0 MEC | 4039 | 5/2/2008 | | 5/2/2008 | 106 | Mag And Dig in Excavation regions only (2) 20mm TP Projectiles Full Up | 12/15/2008 | 4600 |
| B2B0 | Yes | Swept North to South 0 lbs Non-MD Related Scrap 0 MEC | 38 | 4/30/2008 | | 5/15/2008 | 71 | Mag And Dig in Excavation regions only | 9/23/2008 | 4600 |
| B2B1 | Yes | Swept North to South 1 lbs Non-MD Related Scrap 0 MEC | 0 | 4/10/2008 | | 5/9/2008 | 25 | | 6/11/2008 | 1 |
| B2B2 | Yes | Swept North to South 17 lbs Non-MD Related Scrap 0 MEC | 0 | 4/11/2008 | | 5/12/2008 | 34 | | 6/13/2008 | 0 |
| B2B3 | Yes | Swept North to South 4 lbs Non-MD Related Scrap 0 MEC Grid contains significant amount of roadway. | 0 | 4/16/2008 | | 5/12/2008 | 36 | | 6/13/2008 | 2 |

| Grid | Vegetation Clearance Complete | Surface Clearance Comments | lbs of MD removed During Surface Sweep | Surface Clearance Completion Date | Digital Geophysical Mapping Comments | Digital Geophysical Completion Date | Number of Point Intrusive Anomalies | Intrusive Investigation Comments | Intrusive Investigation Completion Date | Lbs of MD removed during Subsurface Sweep |
|------|-------------------------------|--|--|-----------------------------------|--------------------------------------|-------------------------------------|-------------------------------------|---|---|---|
| B2B4 | Yes | Swept East to West 17 lbs Non-MD Related Scrap 0 MEC | 0 | 4/22/2008 | | 5/13/2008 | 55 | | 6/16/2008 | 2 |
| B2B7 | Yes | Swept East to West 0 lbs Non-MD Related Scrap 0 MEC | 36 | 4/23/2008 | | 5/2/2008 | 99 | | 7/3/2008 | 3 |
| B2B8 | Yes | Swept East to West 600 lbs Non-MD Related Scrap 0 MEC | 12 | 4/25/2008 | | 5/2/2008 | 234 | Mag And Dig in Excavation regions only | 7/28/2008 | 4600 |
| B2B9 | Yes | Swept North to South 0 lbs Non-MD Related Scrap 0 MEC | 3 | 5/1/2008 | | 5/2/2008 | 42 | Mag And Dig in Excavation regions only | 9/26/2008 | 4600 |
| B2C0 | Yes | Swept North to South 29 lbs Non-MD Related Scrap 0 MEC | 3 | 4/28/2008 | | 5/19/2008 | 182 | (3) M204 Practice Mine Fuze | 9/5/2008 | 3143 |
| B2C1 | Yes | Swept North to South 1 lbs Non-MD Related Scrap 0 MEC | 1 | 4/10/2008 | | 5/9/2008 | 46 | | 6/11/2008 | 3 |
| B2C4 | Yes | Swept North to South 1.75 lbs Non-MD Related Scrap 0 MEC This grid contains significant amount of asphalt roadway. | 0 | 4/16/2008 | | 5/16/2008 | 18 | | 6/24/2008 | 2 |
| B2C5 | Yes | Swept North to South 1.5 lbs Non-MD Related Scrap 0 MEC | 0 | 4/16/2008 | | 5/16/2008 | 49 | | 6/26/2008 | 0 |
| B2C6 | Yes | Swept North to South 27 lbs Non-MD Related Scrap 0 MEC Western portion of grid contains abandoned burn kettle remains requiring removal . | 1.25 | 4/16/2008 | | 5/16/2008 | 58 | (1) 20mm Projectile HE | 6/27/2008 | 5 |
| B2C7 | Yes | Swept North to South 17 lbs Non-MD Related Scrap 0 MEC | 0 | 4/15/2008 | | 5/16/2008 | 64 | | 6/30/2008 | 12 |
| B2C8 | Yes | Swept North to South 87 lbs Non-MD Related Scrap 0 MEC | 5 | 4/28/2008 | | 5/19/2008 | 121 | | 9/5/2008 | 80 |
| B2C9 | Yes | Swept North to South 37 lbs Non-MD Related Scrap 0 MEC | 8 | 4/28/2008 | | 5/19/2008 | 165 | | 10/1/2009 | 110 |
| B2D1 | Yes | Swept North to South 0 lbs Non MD Related Scrap 0 lbs MEC | 0 | 4/10/2008 | | 5/9/2008 | 19 | | 6/12/2008 | 0 |

| Grid | Vegetation Clearance Complete | Surface Clearance Comments | lbs of MD removed During Surface Sweep | Surface Clearance Completion Date | Digital Geophysical Mapping Comments | Digital Geophysical Completion Date | Number of Point Intrusive Anomalies | Intrusive Investigation Comments | Intrusive Investigation Completion Date | Lbs of MD removed during Subsurface Sweep |
|------|-------------------------------|---|--|-----------------------------------|--------------------------------------|-------------------------------------|-------------------------------------|---|---|---|
| B2D4 | Yes | Swept North to South 107 lbs Non-MD Related Scrap 0 MEC several foundations, walks (cement & asphalt) in grid. | 0 | 4/14/2008 | | 5/13/2008 | 52 | Lots of Concrete and pipe running from borders of grid | 6/26/2008 | 0 |
| B2D5 | Yes | Swept North to South 1 lbs Non-MD Related Scrap 0 MEC | 0 | 4/15/2008 | | 5/13/2008 | 39 | | 6/26/2008 | 0 |
| B2D6 | Yes | Swept North to South 2000 lbs Non-MD Related Scrap 0 MEC J57 ENGINE CASKET | 0 | 4/15/2008 | | 5/27/2008 | 38 | | 6/27/2008 | 1 |
| B2D7 | Yes | Swept North to South 9 lbs Non-MD Related Scrap 0 MEC | 1.25 | 4/15/2008 | | 5/27/2008 | 40 | | 6/17/2008 | 11 |
| B2E4 | Yes | Swept North to South 27 lbs Non-MD Related Scrap 0 MEC significant cement foundations to be removed prior to DGM visitation. | 0 | 4/14/2008 | | 5/13/2008 | 21 | | 6/26/2008 | 0 |
| B2E5 | Yes | Swept North to South 0 lbs Non-MD Related Scrap 0 MEC | 1 | 4/14/2008 | | 5/13/2008 | 22 | | 6/25/2008 | 2 |
| B2H1 | Yes | Swept North to South 1 lbs Non-MD Related Scrap 0 MEC ugly grid needs grubbing prior to dam | 0 | 4/3/2008 | | 5/9/2008 | 4 | | 5/28/2008 | 1 |
| B2H2 | Yes | Swept North to South 1 lbs Non-MD Related Scrap 0 MEC extremely ugly grid needs grubbing | 0 | 4/2/2008 | | 5/9/2008 | 4 | | 5/28/2008 | 2 |
| B2H3 | Yes | Swept North to South 1 lbs Non-MD Related Scrap 0 MEC ugly grid needs grubbing prior to dam | 0 | 4/2/2008 | | 5/9/2008 | 5 | | 5/28/2008 | 0 |
| B2I2 | Yes | Swept North to South 1 lbs Non-MD Related Scrap 0 MEC extremely ugly grid needs grubbing | 0 | 4/3/2008 | | 5/9/2008 | 4 | | 5/28/2008 | 0 |
| B2I3 | Yes | Swept East to West 1 lbs Non-MD Related Scrap 0 MEC | 0 | 4/3/2008 | | 5/9/2008 | 6 | | 5/28/2008 | 0 |

| Grid | Vegetation Clearance Complete | Surface Clearance Comments | lbs of MD removed During Surface Sweep | Surface Clearance Completion Date | Digital Geophysical Mapping Comments | Digital Geophysical Completion Date | Number of Point Intrusive Anomalies | Intrusive Investigation Comments | Intrusive Investigation Completion Date | Lbs of MD removed during Subsurface Sweep |
|------|-------------------------------|---|--|-----------------------------------|--------------------------------------|-------------------------------------|-------------------------------------|--|---|---|
| B3A1 | Yes | Swept North to South 0 lbs Non-MD Related Scrap aircraft launched flair | 12 | 4/29/2008 | | 5/20/2008 | 115 | Mag And Dig in Excavation regions only | 10/15/2008 | 4600 |
| B3A2 | Yes | Swept East to West 17 lbs Non-MD Related Scrap 0 MEC | 3 | 5/2/2008 | | 5/27/2008 | 134 | Mag And Dig in Excavation regions only | | 4600 |
| B3A3 | Yes | Swept East to West 15 lbs Non-MD Related Scrap 0 MEC | 15 | 5/5/2008 | | 5/27/2008 | 222 | | 8/6/2008 | 97 |
| B3A6 | Yes | Swept North to South 17 lbs Non-MD Related Scrap 0 MEC | 17 | 8/8/2008 | | 5/27/2008 | 43 | | 7/17/2008 | 29 |
| B3A7 | Yes | Swept North to South 7 lbs Non-MD Related Scrap 0 MEC | 10 | 8/8/2008 | | 5/28/2008 | 46 | | 8/7/2008 | 29 |
| B3B1 | Yes | Swept North to South 0 lbs Non-MD Related Scrap 0 MEC | 10 | 4/29/2008 | | 5/20/2008 | 167 | Mag And Dig in Excavation regions only (2) MK4 Spotting Charge | 9/11/2008 | 4600 |
| B3B2 | Yes | Swept East to West 40 lbs Non-MD Related Scrap 0 MEC | 0.5 | 5/2/2008 | | 5/20/2008 | 195 | (1) M204 Practice Mine Fuze | 8/1/2008 | 53 |
| B3B3 | Yes | Swept East to West 49 lbs Non-MD Related Scrap 0 MEC | 17 | 5/5/2008 | | 5/20/2008 | 149 | (2) M204 Practice Mine Fuze | 7/31/2008 | 53 |
| B3B7 | Yes | Swept North to South 6 lbs Non-MD Related Scrap 0 MEC | 0 | 8/8/2008 | | 5/28/2008 | 37 | | 6/18/2008 | 24 |
| B3C1 | Yes | Swept North to South 424 lbs Non-MD Related Scrap 0 MEC | 12 | 4/28/2008 | | 5/20/2008 | 144 | BLU - 26/B Submunition Inert Bomblet (BIP) | 7/24/2008 | 52 |
| B3C2 | Yes | Swept East to West 276 lbs Non-MD Related Scrap 0 MEC | 43 | 5/5/2008 | | 5/20/2008 | 118 | | 7/22/2008 | 58 |
| B3C3 | Yes | Swept East to West 276 lbs Non-MD Related Scrap 0 MEC | 43 | 5/5/2008 | | 5/20/2008 | 134 | | 9/8/2008 | 75 |
| B3D2 | Yes | Swept East to West 150 Non-MD Related Scrap 0 MEC | 0 | 4/21/2008 | | 5/27/2008 | 111 | | 7/23/2008 | 52 |
| B3D3 | Yes | Swept East to West 25 lbs Non-MD Related Scrap 0 MEC | 14 | 4/18/2008 | | 5/22/2008 | 113 | (1) M204 Practice Mine Fuze | 7/21/2008 | 57 |
| B3E2 | Yes | Swept East to West 37 lbs Non-MD Related Scrap 0 MEC | 30 | 4/21/2008 | | 5/27/2008 | 59 | | 8/26/2008 | 9 |

| Grid | Vegetation Clearance Complete | Surface Clearance Comments | lbs of MD removed During Surface Sweep | Surface Clearance Completion Date | Digital Geophysical Mapping Comments | Digital Geophysical Completion Date | Number of Point Intrusive Anomalies | Intrusive Investigation Comments | Intrusive Investigation Completion Date | Lbs of MD removed during Subsurface Sweep |
|------|-------------------------------|--|--|-----------------------------------|--------------------------------------|-------------------------------------|-------------------------------------|----------------------------------|---|---|
| B3E3 | Yes | Swept East to West 25 lbs Non-MD Related Scrap 0 MEC | 14 | 4/18/2008 | | 5/22/2008 | 46 | | 7/18/2008 | 30 |
| B3F2 | Yes | Swept East to West 12 lbs Non-MD Related Scrap 0 MEC | 6 | 4/18/2008 | | 5/27/2008 | 38 | | 7/23/2008 | 19 |
| B3F3 | Yes | Swept East to West 17 lbs Non-MD Related Scrap 0 MEC | 4 | 4/18/2008 | | 5/22/2008 | 35 | | 7/18/2009 | 19 |
| B3G2 | Yes | Swept East to West 5 lbs Non-MD Related Scrap 0 MEC | 8 | 4/18/2008 | | 5/27/2008 | 19 | | 7/18/2009 | 13 |
| B3G3 | Yes | Swept East to West 17 lbs Non-MD Related Scrap 0 MEC | 13 | 4/18/2008 | | 5/22/2008 | 22 | | 7/21/2008 | 15 |

APPENDIX B

PHOTOGRAPH LOG

Appendix B – Site Photographs



Photograph 1: Facing northwest on dirt portion of road that leads away from the former Ordnance Disposal Area.



Photograph 2: On circle facing east-northeast toward southwestern portion of the former Ordnance Disposal Area.

Appendix B – Site Photographs



Photograph 3: In southwestern portion of former Ordnance Disposal Area showing excavation area L (sandy fill).



Photograph 4: In southwestern portion of former Ordnance Disposal Area facing south towards circle.

Appendix B – Site Photographs



Photograph 5: On dirt access road north-northwest of the former Ordnance Disposal Area facing southeast.

Appendix B – Site Photographs



Photograph 6: Instrument Verification Strip (IVS) Seed items:
A – Non-ferrous, approximately 6 inches bgs, at 0 feet
B – Ferrous, approximately 12 inches bgs, at 10.5 feet
C – Non-ferrous, approximately 12 inches bgs, at 20 feet
D – Ferrous, approximately 6 inches bgs, at 30 feet

Appendix B – Site Photographs



Photograph 7: Item No. 1 a propellant canister (MDAS) located between Transect 21N and 22N.



Photograph 8: Item No. 2 two propellant canisters one MDAS (middle of image) and one MPPEH (top of image), located between Transect 21N and 22N.

Appendix B – Site Photographs



Photograph 9: Item No. 3 a slap flare casing (MPPEH) located on Transect J-3.



Photograph 10: Item No. 4 a slap flare casing (MPPEH) located on Transect 5-1.

Appendix B – Site Photographs



Photograph 11: Item No. 5 part of a projectile fuse (MPPEH/MD) was located on Transect A-7.



Photograph 12: Item No. 6 a fuse part (MPPEH/MD) located in Transect C-9.

Appendix B – Site Photographs



Photograph 13: Item No. 7 a 20 mm TP Projectile (MPPEH/MD) located on Transect 10-D.



Photograph 14: Item No. 8 missile parts (MPPEH?MD) located on Transect 17-K.

Appendix B – Site Photographs



Photograph 15: Item No. 9 an expended smoke grenade (MPPEH/MD) was located on Transect 19M



Photograph 16: Item No. 10 a smoke marker (MPPEH/MD) found, by the QC personnel, off to the side of Transect 7E.

Appendix B – Site Photographs



Photograph 17: Item No. 11 a base plate (MPPEH) located on Transect M-T3T4.



Photograph 18: Item No. 12 a fuse part (MPPEH) located on Transect 3-TLTM.

Appendix B – Site Photographs



Photograph 19: Item No. 13 a fuse part (MPPEH) located on Transect K-T2T3.

APPENDIX C

UXO DETECTOR-AIDED SURVEY FIELD FORMS

APPENDIX C-1

PROJECT PERSONNEL SIGN-OFF SHEET

SAP Worksheet #4 -- Project Personnel Sign-Off Sheet

(UFP-QAPP Manual Section 2.3.2)

Certification that project personnel have read the text will be obtained by one of the following methods, as applicable:

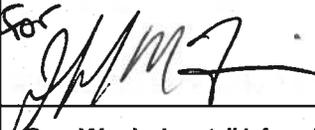
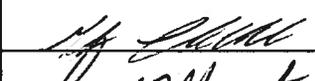
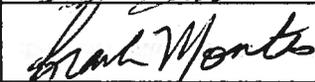
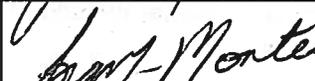
1. In the case of regulatory agency personnel with oversight authority, approval letters or e-mails will constitute verification that applicable sections of the SAP have been reviewed. Copies of regulatory agency approval letters/e-mails will be retained in the project files and are listed in **Worksheet #29** as project records.
2. E-mails will be sent to Navy and Tetra Tech project personnel who will be requested to verify by e-mail that they have read the applicable SAP/sections and the date on which they were reviewed. Copies of the verification e-mail will be included in the project files and are identified in **Worksheet #29**.

A copy of the signed **Worksheet #4** will be retained in the project files and is identified as a project document in **Worksheet #29**.

| Name | Organization/Title/Role | Telephone Number (optional) | Signature/E-Mail Receipt | SAP Section Reviewed | Date SAP Read |
|--|--|-----------------------------|---------------------------------------|----------------------|---------------|
| Navy and Regulator Project Team Personnel | | | | | |
| Art Sanford | Navy RPM/Manages Project Activities for Navy | 843.743.2135 | See Worksheet #1 for signature | All | |
| Gregory Fraley | U.S. EPA RPM/Provides U.S. EPA Regulator Input | 404.562.8544 | | All | |
| David Grabka | FDEP RPM/Provides State Regulator Input | 850.245.8997 | | All | |
| Michael Green | NAVFAC MRP Senior Technical Advisor/ Reviews SAP and QA Documentation for Navy | 757.322.8108 | See Worksheet #1 for signature | All | |

| Name | Organization/Title/Role | Telephone Number (optional) | Signature/E-Mail Receipt | SAP Section Reviewed | Date SAP Read |
|---------------|---|-----------------------------|--------------------------|----------------------|---------------|
| Mark Davidson | BRAC Environmental Coordinator (BEC)/Manages BRAC Activities for the Navy | 843.743.2124 | | All | |

Tetra Tech Project Team Personnel

| | | | | | |
|------------------|--|-------------------|---|-------------------------------|---------|
| Robert Simcik | Tetra Tech PM, Base Coordinator/Manages Activities at the Base | 412.921.8163 | See Worksheet #1 for signature | All | |
| Linda Klink | Tetra Tech Technical Lead/Manages Project Activities | 412.921.8650 | See Worksheet #1 for signature | All | |
| Ralph Brooks | UXO/MEC Manager/Manages Project MEC Hazards and Activities | 770.413.0965 x231 | <i>for</i>  | All | 4/27/10 |
| Dr. Tom Johnston | Tetra Tech QAM/Provides QA Oversight | Tetra Tech | See Worksheet #1 for signature | All | |
| Matt Soltis | HSM/Manages Corporate Health and Safety Program | 412.921.8912 | See signature on HASP | HASP and Worksheet #17 | |
| TBD | SUXOS/Supervises UXO Field Activities | TBD |  | All | 4/27/10 |
| TBD | UXOQCS/Provides QC during UXO Field Activities | TBD |  | All | |
| TBD | UXO Safety Officer (UXOSO)/Manages UXO Safety Operations | TBD |  | All | |

APPENDIX C-2

FIELD PERSONNEL SIGN-OFF SHEET

APPENDIX C-3

DAILY ACTIVITY LOG



TETRA TECH NUS, INC.

| | |
|---------|--------|
| DATE | 5/2/10 |
| NO. | 6 |
| SHEET 1 | OF 1 |

FIELD ACTIVITY DAILY LOG

| | |
|--|-----------------------|
| PROJECT NAME: Naval Air Station Cecil Field, Site 15 | PROJECT NO: 112G02267 |
|--|-----------------------|

FIELD ACTIVITY SUBJECT: Setting perimeter stakes for transects

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0700: Safety Briefing, Glen Childers reported an imbedded tick found last night on left arm. Depart to pick up equipment

0715: Pick up equipment at storage shed.

0730: On site, check out gps, continue brush cutting, Log transects in GPS.

1200: Lunch.

1230: Continue brush cutting, second team to start sweep of cleared transects. Schonstedt and white check out completed. QC put seed items out in area to swept.

1530: Transect T1 complete, 9 anomalies, medium density. All seed items were located.
Cutting of transects approximately 20% complete.

1615: Stop work, check GPS.

1630: Load equipment and go to storage shed.

1700: End of day.

| | |
|----------------------------|----------------------------|
| Man Hours: Tech III 32 hrs | Equipment Hours: GPS 1 hrs |
| Tech II 10 hrs | Weedeaters 8.5 hrs |
| Tech I 10 hrs | |

VISITORS ON SITE: None

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS: None

WEATHER CONDITIONS: 72 degrees, partly cloudy, winds S @ 5 - 10 mph, high 93 degrees.

IMPORTANT TELEPHONE CALLS: None

PERSONNEL ON SITE: Glen Childers, Frank Montes, Steve Cassidy, Charles Everitt, Norm Piper, Frank Lony

SIGNATURE: Glen Childers Date: 5/2/10



TETRA TECH NUS, INC.

FIELD ACTIVITY DAILY LOG

| | |
|---------|--------|
| DATE | 5/3/10 |
| NO. | 7 |
| SHEET 1 | OF 1 |

| | |
|--|-----------------------|
| PROJECT NAME: Naval Air Station Cecil Field, Site 15 | PROJECT NO: 112G02267 |
|--|-----------------------|

FIELD ACTIVITY SUBJECT: Setting perimeter stakes for transects

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0700: Safety Briefing, Depart to pick up equipment

0715: Pick up equipment at storage shed.

0730: On site, check out GPS units, Schondstedts and White. Continue brush cutting. The broken weedeater was Back to sunbelt, they don't have any more but are looking for one.

1030: The second weedeater broke down, called sunbelt. Returned weedeater to sunbelt, they repaired it and returned It to us.

1100: QC reported the sweep team missed the seed items. /team sent to redo the transect seeds were on.

1145: A slap flare caseing found on transect J-3 (MPPEH)coordinates N 2149369.30, E 365001.1, Item # 3

1200: Sweep team found all seeds and completed transect.

1215: Lunch

1245: One team brush cutting, one team sweep with white.

1430: A flare case (MPPEH) was found on transect 5-I, coordinates N 2149402.86 E 364973.56. Item # 4.

1545: The weedeater broke, I called sunbelt and they said bring it in and they would work on it, try and have it fixed by morning.

1615: Stop work, GPS check, load equipment.

1630: Go to storage shed.

1700: End of day.

Transects swept:

See Transect Anomaly Tracking Table

Most of the anomalies were non-ferrous contacts found using the White.



TETRA TECH NUS, INC.

Man Hours: Tech III 30 hrs
Tech II 10 hrs
Tech I 20 hrs

Equipment Hours: GPS .5 hrs
Weedeaters 4 hrs

| | |
|--|---|
| VISITORS ON SITE: None | CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS: None |
| WEATHER CONDITIONS: 72 degrees, partly cloudy, winds S @ 10 -20 mph, high 94 degrees. | IMPORTANT TELEPHONE CALLS: Sunbelt Rental |
| PERSONNEL ON SITE: Glen Childers, Frank Montes, Steve Cassidy, Charles Everitt, Norm Piper, Frank Lony | |
| SIGNATURE: Glen Childers  DATE: 5/3/10 | |



TETRA TECH NUS, INC.

FIELD ACTIVITY DAILY LOG

| | |
|----------------|--------|
| DATE | 5/4/10 |
| NO. | 8 |
| SHEET 1 1 OF 2 | |

| | |
|---|-----------------------|
| PROJECT NAME: Naval Air Station Cecil Field Site 15 | PROJECT NO: 112G02267 |
|---|-----------------------|

FIELD ACTIVITY SUBJECT: Setting perimeter stakes for transects

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0700: Safety Briefing, Depart to pick up equipment

0715: Pick up equipment at storage shed.

0730: On site, check out GPS units, Schonstedts and White. Both teams sweeping transects.

0800: Sunbelt called, weedeater is ready to go. Go pick up weedeaters at Sunbelt and United.

0930: On site with weedeaters, both teams to brush cutting.

1200: Lunch

1230: Resume brush cutting,

1315: Weedeater broke down, team GPS transects:

1400: Rob Simcik (TTNUS), Mark Jonnet (TTNUS), and Art Sanford (BRAC SE) on site, Visitors, given safety briefing and briefing on work.:

1430: Visitors departed site, weedeater taken to United Rental.

1625: GPS Check, load equipment.

1640: Go to storage shed.

1700: End of day.

Approximately 45% of brush cutting completed.

| | | | |
|---------------------|--------|----------------------|--------|
| Man Hours: Tech Ili | 32 hrs | Equipment Hours: GPS | .3 hrs |
| Tech II | 10 hrs | Weadeater | 11 hrs |
| Tech I | 20 hrs | | |

| | |
|--|---|
| VISITORS ON SITE: Rob Simcik (TTNUS), Mark Jonnet (TTNUS), and Art Sanford (BRAC SE) | CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS: None |
|--|---|

| | |
|---|---|
| WEATHER CONDITIONS: 74 degrees, partly cloudy, winds calm, high 84, 80% chance of rain. | IMPORTANT TELEPHONE CALLS: Sunbelt Rental |
|---|---|



TETRA TECH NUS, INC.

PERSONNEL ON SITE: Glen Childers, Frank Montes, Steve Cassidy, Charles Everitt, Norm Piper, Frank Lony

SIGNATURE:

Glen Childers

A handwritten signature in cursive script, appearing to read 'Glen Childers', written in black ink.

DATE: 5/4/10



TETRA TECH NUS, INC.

FIELD ACTIVITY DAILY LOG

| | |
|----------------|--------|
| DATE | 5/5/10 |
| NO. | 9 |
| SHEET 1 1 OF 2 | |

PROJECT NAME: Naval Air Station Cecil Field Site 15

PROJECT NO: 112G02267

FIELD ACTIVITY SUBJECT: Brush Cutting

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0700: Safety Briefing,

0715: Load equipment.

0730: On site, check out GPS units, Schonstedts and White. One team sweeping transects, one team brush cutting.

1000: Second weedeater on site, bothe teams cutting brush.

1200: Lunch.

1230: Resume brush cutting.

1410: Linda Klink (TTNUS) on site, given safety briefing and briefed on operations and work progress. Shown around site.

1500: Linda Klink off site.

1615: Check GPS units out.

1630: Load Equipment and go to storage shed.

1700: End of day.

Transects Swept today:

See Transect Anomaly Tracking Table

Man Hours: Tech Ili 32 hrs

Equipment Hours: GPS .5 hrs

Tech II 10 hrs

Weedeater 17 hrs

Tech I 20 hrs



TETRA TECH NUS, INC.

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| | |
|-------------------------------|---|
| VISITORS ON SITE: Linda Klink | CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS: None |
|-------------------------------|---|

| | |
|---|----------------------------|
| WEATHER CONDITIONS: 74 degrees, partly cloudy, winds calm, high 84, 80% chance of rain. | IMPORTANT TELEPHONE CALLS: |
|---|----------------------------|

PERSONNEL ON SITE: Glen Childers, Frank Montes, Steve Cassidy, Charles Everitt, Norm Piper, Frank Lony

| | |
|---|--------------|
| SIGNATURE: Glen Childers  | DATE: 5/5/10 |
|---|--------------|



TETRA TECH NUS, INC.

FIELD ACTIVITY DAILY LOG

| | |
|----------------|--------|
| DATE | 5/6/10 |
| NO. | 10 |
| SHEET 1 1 OF 1 | |

| | |
|---|-----------------------|
| PROJECT NAME: Naval Air Station Cecil Field Site 15 | PROJECT NO: 112G02267 |
|---|-----------------------|

FIELD ACTIVITY SUBJECT: Brush Cutting

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0700: Safety Briefing,
0715: Load equipment.
0730: On site, check out GPS units.. Start brush cutting.
1200: Lunch.
1230: resume brush cutting.
1620: Stop work, complete GPS check.
1630: Load equipment, go to storage shed.
1645: Unload equipment.
1700: End of day.
Steve Cassidy and Charles Everitt departing site tomorrow.
Brush cutting approximately 65% complete.

| | | | | | |
|------------|----------|--------|----------------|------------|--------|
| Man Hours: | Tech III | 32 hrs | Equipment Hrs: | GPS | .5 hrs |
| | Tech II | 10 hrs | | Weedeaters | 17 hrs |
| | Tech I | 20 hrs | | | |

VISITORS ON SITE: None

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS: None

WEATHER CONDITIONS: 73 degrees, partly cloudy, winds, WSW 10 – 15 mph, high 89.

IMPORTANT TELEPHONE CALLS:

PERSONNEL ON SITE: Glen Childers, Frank Montes, Steve Cassidy, Charles Everitt, Norm Piper, Frank Lony

SIGNATURE:
Glen Childers 

DATE: 5/6/10



TETRA TECH NUS, INC.

FIELD ACTIVITY DAILY LOG

| | |
|----------------|---------|
| DATE | 5/10/10 |
| NO. | 11 |
| SHEET 1 1 OF 1 | |

| | |
|--|-----------------------|
| PROJECT NAME: Naval Air Station Cecil Field, Site 15 | PROJECT NO: 112G02267 |
|--|-----------------------|

FIELD ACTIVITY SUBJECT: Brush Cutting

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0700: Safety Briefing,
0715: Load equipment.
0730: On site, check out GPS units.. Start brush cutting, mark transects that have been cut using GPS.
1030: Sunbelt delivered 2 walk behind brush cutters.
1130: One brush cutter broke down, Sunbelt notified. They said they would get serviceman to look at it.
1200: Lunch
1230: Resume brush cutting.
1620: Stop Work, GPS check.
1630: Load equipment and depart for storage shed.
1645: Unload equipment. Sunbelt called, they will have a serviceman on site first thing in the morning.
1700 End of day.

Brush cutting approximately 90% complete, should start sweep of transects by mid morning.

| | | | | | |
|------------|----------|--------|----------------|---------------|-------|
| Man Hours: | Tech III | 32 hrs | Equipment Hrs: | GPS | 2 hrs |
| | Tech II | 10 hrs | | Weedeaters | 9 hrs |
| | Tech I | 20 hrs | | Brush Cutters | 7 hrs |

VISITORS ON SITE: None

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS: None

WEATHER CONDITIONS: 56 degrees, winds E @ 5 10 mph, High 80 degrees.

IMPORTANT TELEPHONE CALLS: None

PERSONNEL ON SITE: Glen Childers, Frank Montes, Mark Soha, Norm Piper, Frank Lony

SIGNATURE:
Glen Childers 

DATE: 5/10/10



TETRA TECH NUS, INC.

FIELD ACTIVITY DAILY LOG

| | |
|----------------|---------|
| DATE | 5/11/10 |
| NO. | 12 |
| SHEET 1 1 OF 2 | |

| | |
|--|-----------------------|
| PROJECT NAME: Naval Air Station Cecil Field, Site 15 | PROJECT NO: 112G02267 |
|--|-----------------------|

FIELD ACTIVITY SUBJECT: Brush Cutting

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0700: Safety Briefing,
0715: Load equipment.
0730: On site, check out GPS units.. Start brush cutting.
0745: Called /sunbelt, They should have somebody on the way out within the hour.
0830: Porta-pot man on site.
0915: Sunbelt here to change out brush cutters.
1130: Part of a projectile fuze (MPPEH) was located on transect A-7, coordinates N 2149124.03 E 364104.19, Item # 5.
1200: Lunch.
1230: Resume sweeping transects. QC placed 4 seed items on transects to be swept.
1530: All seed items have been found.
1545: A fuze part (MPPEH) was located on transect C-9, coordinates N 2148994.82, E 364300.49, Item # 6.
1615: Stop work, GPS check
1630: Load equipment, depart for storage shed.
1645: Unload equipment..
1700: End of day.

Transects Swept today:
See Transect Anomaly Tracking Table

| | | | | | |
|------------|----------|--------|----------------|---------------|-------|
| Man Hours: | Tech III | 32 hrs | Equipment Hrs: | GPS | 2 hrs |
| | Tech I | 20 hrs | | Weedeaters | 9 hrs |
| | | | | Brush Cutters | 7 hrs |

| | |
|------------------------|---|
| VISITORS ON SITE: None | CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS: None |
|------------------------|---|



TETRA TECH NUS, INC.

WEATHER CONDITIONS: 62 degrees, partly cloudy, winds SE
@ 10 -15 mph, high 84 degrees..

IMPORTANT TELEPHONE CALLS: None

PERSONNEL ON SITE: Glen Childers, Frank Montes, Mark Soha, Norm Piper, Frank Lony

SIGNATURE:

Glen Childers

A handwritten signature in black ink, appearing to read 'Glen Childers', written over a light blue horizontal line.

DATE: 5/11/10



TETRA TECH NUS, INC.

FIELD ACTIVITY DAILY LOG

| | |
|-------|---------|
| DATE | 5/12/10 |
| NO. | 13 |
| SHEET | 1 OF 3 |

| | |
|--|-----------------------|
| PROJECT NAME: Naval Air Station Cecil Field, Site 15 | PROJECT NO: 112G02267 |
|--|-----------------------|

FIELD ACTIVITY SUBJECT: Sweep of Transects

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

- 0700: Safety briefing.
- 0715: Load equipment and go to site.
- 0730: On site, check out GPS units, Schonstedts, and White. Start sweeping transects.
- 0930: A 20MM TP projectile (MPPEH) was located on transect 10-D, coordinates N 2148900.23, E 364476.06. Item # 7.
- 1200: Lunch. QC Placed 3 seed items on the M transect line.
- 1230: Resume sweeping transects.
- 1420: All seed items located by sweep team.
- 1615: Stop work, GPS check
- 1630: Load equipment and go to storage shed.
- 1645: Unload equipment.
- 1700: End of day.

The following transects were swept today:
See Transect Anomaly Tracking Table

Man hrs:

| | |
|-----------|---------|
| Tech III: | 32 hrs. |
| Tech I | 20 Hrs. |

Equipment hrs:

| | |
|----------------|----------|
| GPS: | 5 hrs. |
| Weedeaters: | 0 hrs. |
| Brush Cutters: | .75 hrs. |
| Schonstedt | 14 hrs. |
| White | 8.5 hrs. |



TETRA TECH NUS, INC.

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| | |
|--|---|
| VISITORS ON SITE: None | CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS: None |
| WEATHER CONDITIONS: 62 degrees, partly cloudy, winds SE @ 10 -15 mph, high 84 degrees.. | IMPORTANT TELEPHONE CALLS: None |
| PERSONNEL ON SITE: Glen Childers, Frank Montes, Mark Soha, Norm Piper, Frank Lony | |
| SIGNATURE: Glen Childers  | DATE: 5/12/10 |



TETRA TECH NUS, INC.

| | |
|-------|---------|
| DATE | 5/13/10 |
| NO. | 14 |
| SHEET | 1 OF 2 |

PROJECT NAME: Naval Air Station Cecil Field, Site 15

PROJECT NO: 112G02267

FIELD ACTIVITY SUBJECT: Sweep of Transects

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0700: Safety briefing.

0715: Load equipment and go to site.

0730: On site, check out GPS units, Schonstedts, and White. Start sweeping transects.

0915: Missile parts (MPPEH) were located on transect 17-K, coordinates N 2148203.25, E 365154.48, Item # 8.

1200: Lunch.

1230: Resume sweeping transects. QC placed 5 seeds items on transects to be swept.

1345: An expended smoke grenade (MPPEH) was found on transect 19-M, coordinates N 2148001.09
E 365362.00, Item # 9.

1530: All 5 seed items have been located by the sweep team.

1615: Stop work, GPS Check.

1630: Load equipment and go to storage shed

1645: Unload equipment.

1700: End of day.

The following transects were swept today:

See Transect Anomaly Tracking Table



TETRA TECH NUS, INC.

Man hrs:

Tech III: 32 hrs.
Tech I 20 Hrs.

Equipment hrs:

GPS: 1 hrs.
Weedeaters: 0 hrs.
Brush Cutters: .0 hrs.
Schonstedt 15 hrs.
White 8.5 hrs.

VISITORS ON SITE: None

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS: None

WEATHER CONDITIONS: 63 degrees, clear, winds SW @ 10 - 15 mph, high 84 degrees..

IMPORTANT TELEPHONE CALLS: None

PERSONNEL ON SITE: Glen Childers, Frank Montes, Mark Soha, Norm Piper, Frank Lony

SIGNATURE: Glen Childers

DATE: 5/13/10



TETRA TECH NUS, INC.

| | |
|-------|---------|
| DATE | 5/14/10 |
| NO. | 15 |
| SHEET | 1 OF 2 |

PROJECT NAME: Naval Air Station Cecil Field, Site 15

PROJECT NO: 112G02267

FIELD ACTIVITY SUBJECT: Sweep of Transects

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0700: Safety briefing.

0715: Load equipment and go to site.

0730: On site, check out GPS units, Schonstedts, and White.

0745: Start sweeping transects. QC placed 2 seed items on the E transect.

0900: All seed items located by the sweep team.

1015: QC found a smoke marker (MPPEH) off the side of transect 7-E, coordinates N 2149155.70
E 364505.67, Item # 10.

1200: Lunch.

1230: Resume sweeping transects.

1615: Stop work, GPS Check.

1630: Load equipment and go to storage shed

1645: Unload equipment.

1700: End of day.

The following transects were swept today:

See Transect Anomaly Tracking Table



TETRA TECH NUS, INC.

Man hrs:

Tech III: 32 hrs.
Tech I 20 Hrs.

Equipment hrs:

GPS: 1 hrs.
Weedeaters: 0 hrs.
Brush Cutters: .0 hrs.
Schonstedt 15 hrs.
White 8.5 hrs.

VISITORS ON SITE: None

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS: None

WEATHER CONDITIONS: 63 degrees, clear, winds SW @ 10 - 15 mph, high 84 degrees..

IMPORTANT TELEPHONE CALLS: None

PERSONNEL ON SITE: Glen Childers, Frank Montes, Mark Soha, Norm Piper, Frank Lony

SIGNATURE: Glen Childers

DATE: 5/14/10



TETRA TECH NUS, INC.

| | |
|-------|---------|
| DATE | 5/15/10 |
| NO. | 16 |
| SHEET | 1 OF 2 |

PROJECT NAME: Naval Air Station Cecil Field, Site 15

PROJECT NO: 112G02267

FIELD ACTIVITY SUBJECT: Sweep of Transects

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0700: Safety briefing.

0715: Load equipment and go to site.

0730: On site, check out GPS units, Schonstedts, and White.

0745: Start sweeping transects. QC placed 3 seed items on transect 23.

0930: All seed items located by the sweep team.

1200: Lunch.

1230: Resume sweeping transects.

1615: Stop work, GPS Check.

1630: Load equipment and go to storage shed

1645: Unload equipment.

1700: End of day.

The following transects were swept today:

See Transect Anomaly Tracking Table

Man hrs:

Tech III: 32 hrs.

Tech I 20 Hrs.

Equipment hrs:

GPS: .5 hrs.

Weedeaters: 0 hrs.

Brush Cutters: .0 hrs.

Schonstedt 15 hrs.

White 8.5 hrs.



TETRA TECH NUS, INC.

| | |
|--|---|
| VISITORS ON SITE: None | CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS: None |
| WEATHER CONDITIONS: 64 degrees, partly cloudy, winds E @ 10 -15 mph, high 88 degrees. | IMPORTANT TELEPHONE CALLS: None |
| PERSONNEL ON SITE: Glen Childers, Frank Montes, Mark Soha, Norm Piper, Frank Lony | |
| SIGNATURE: Glen Childers  DATE: 5/15/10 | |



TETRA TECH NUS, INC.

| | |
|-------|---------|
| DATE | 5/22/10 |
| NO. | 21 |
| SHEET | 1 OF 2 |

PROJECT NAME: Naval Air Station Cecil Field, Site 15

PROJECT NO: 112G02267

FIELD ACTIVITY SUBJECT: Sweep of Step Out Transects

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0700: Safety Briefing.

0715: Load equipment, go to site.

0730: On site, lay out new transects. GPS check.

1045: Brush cutting complete, there is a large pile of trees in transect C-T14T15. Will sweep up to the pile from both end stakes. Check out Schonstedt and White.

1100: Start Schonstedt and White sweep of transects. QC put 2 seed items out.

1200: Lunch.

1230: Continue sweep of transects.

1400: Sweep of transect complete, all seed items found by sweep team.

1415: Start picking up stakes.

1600: GPS Check.

1620: Load equipment and go to storage shed.

1635: Unload equipment.

1700: End of day.

For list of grids swept today see *Transect Anomaly Tracking Table*



TETRA TECH NUS, INC.

Man hrs:

Tech III: 32 hrs.
Tech I 20 Hrs.

Equipment hrs:

GPS: 4 hrs.
Weedeaters: 3.5 hrs.
Brush Cutters: 3.5 hrs.
Schonsted 4.5 hrs.
White 3.5 hrs

VISITORS ON SITE: None

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS: None

WEATHER CONDITIONS: 67 degrees, clear, winds SE @ 5 – 10 mph, high 89 degrees, 20% chance of afternoon thunderstorms

IMPORTANT TELEPHONE CALLS: None

PERSONNEL ON SITE: Glen Childers, Frank Montes, Mark Soha, Norm Piper, Frank Lony

SIGNATURE: Glen Childers

DATE: 5/22/10



TETRA TECH NUS, INC.

| | |
|-------|---------|
| DATE | 5/23/10 |
| NO. | 22 |
| SHEET | 1 OF 2 |

| | |
|--|-----------------------|
| PROJECT NAME: Naval Air Station Cecil Field, Site 15 | PROJECT NO: 112G02267 |
|--|-----------------------|

FIELD ACTIVITY SUBJECT: Clean Up of site and demob

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

- 0700: Safety Briefing.
- 0715: Load equipment and go to site.
- 0730: Pick up stakes and dig up GPO.
- 1200; Lunch
- 1230: Continue picking up stakes and pulling flagging tape.
- 1400: Go to storage area, clean equipment for turn in, pack equipment for shipment.
- 1700: End of day.

Man hrs:

Tech III: 32 hrs.
 Tech I 20 Hrs.

Equipment hrs:

GPS: 0 hrs.
 Weedeaters: 0 hrs.
 Brush Cutters: 0 hrs.
 Schonstedt 0 hrs.
 White 0 hrs

VISITORS ON SITE: None

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS: None

WEATHER CONDITIONS: 68 degrees, partly cloudy, winds, calm, high 89 degrees

IMPORTANT TELEPHONE CALLS: None

PERSONNEL ON SITE: Glen Childers, Frank Montes, Mark Soha, Norm Piper, Frank Lony

SIGNATURE: Glen Childers  DATE: 5/22/10

APPENDIX C-4

WEEKLY ACTIVITY LOG



TETRA TECH NUS, INC.

FIELD ACTIVITY WEEKLY LOG

| | |
|-------|---------|
| .DATE | 5/15/10 |
| NO. | 3 |
| SHEET | 1 OF 1 |

| | |
|--|-----------------------|
| PROJECT NAME: Naval Air Station Cecil Field, Site 15 | PROJECT NO: 112G02267 |
|--|-----------------------|

FIELD ACTIVITY SUBJECT: Brush Cutting, sweeping transects

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:
 Completed brush cutting and sweeping of all transects with the Schonstedt and White.
 The following items were located during the sweep:

| Item # | Description | Transect # | Location | |
|--------|--------------------------------|------------|--------------|-------------|
| 5 | Projectile Fuze (MPPEH) | A-7 | N 2149124.03 | E 364104.19 |
| 6 | Fuze Parts (MPPEH) | C-9 | N 2148994.82 | E 364300.49 |
| 7 | 20MM TP projectile (MPPEH) | 10-D | N 2148900.23 | E 364476.06 |
| 8 | Missile Parts (MPPEH) | 17-K | N 2148203.25 | E 365154.48 |
| 9 | Expended Smoke Grenade (MPPEH) | 19-M | N 2148001.09 | E 365362.00 |
| 10 | Smoke Marker (MPPEH) | Off 7-E | N 2149155.70 | E 364505.67 |

Man Hours for the week: Tech III 192 hrs
 Tech II 60 hrs
 Tech I 100 hrs

Equipment Hours: GPS 7.5 hrs
 Weedeater 18 hrs
 Brush cutter 14.75
 Schonstedt 59 hrs
 White 34 hrs

| | |
|-------------------|---|
| VISITORS ON SITE: | CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS: None |
|-------------------|---|

| | |
|--|---------------------------------|
| WEATHER CONDITIONS: Mid 60's in the morning, partly cloudy to clear, winds 10-15 mph, high mid to upper 80's | IMPORTANT TELEPHONE CALLS: None |
|--|---------------------------------|

PERSONNEL ON SITE: Glen Childers, Frank Montes, Mark Soha, Norm Piper, Frank Lony

SIGNATURE: Glen Childers  DATE: 5/15/10

APPENDIX C-5

VISITOR LOG

APPENDIX C-6

TAILGATE SAFETY LOG



TETRA TECH NUS, INC.

Project: N62470-08-D-1001 Naval Air Station Cecil Field

Tailgate Safety Briefing

Date: 4-27-2010

Location: CECIL FIELD

Time: 1315

Team #: _____

1. Reason for Briefing:

| | | | |
|-------------------------------------|-------------------------|--------------------------|----------------------------|
| <input type="checkbox"/> | Daily Safety Briefing | <input type="checkbox"/> | New Site Procedure |
| <input checked="" type="checkbox"/> | Initial Safety Briefing | <input type="checkbox"/> | New Site Information |
| <input type="checkbox"/> | New Task Briefing | <input type="checkbox"/> | Review of Site Information |
| <input type="checkbox"/> | Periodic Safety Meeting | <input type="checkbox"/> | Other: (Specify) |

2. Personnel Attending

| Name | Signature | Position |
|-----------------|-----------|----------|
| Glen Childers | | SUXOS |
| Mark Soha | | Tech III |
| Steve Cassidy | | Tech III |
| Charles Everitt | | Tech II |
| Norman Piper | | Tech I |

Briefing Given By:

| Name | Signature | Position |
|--------------|-----------|-----------|
| Frank Montes | | QC/Safety |



TETRA TECH NUS, INC.

3. Topics: (Check All That Apply)

| | | | |
|-------------------------------------|------------------------------------|-------------------------------------|---------------------------------------|
| <input checked="" type="checkbox"/> | Site Safety Personnel | <input checked="" type="checkbox"/> | Decontamination Procedures |
| <input checked="" type="checkbox"/> | Site/Work Area Description | <input checked="" type="checkbox"/> | Emergency Response/Equipment |
| <input checked="" type="checkbox"/> | Physical Hazards | <input checked="" type="checkbox"/> | On-Site Injuries/Illness |
| <input checked="" type="checkbox"/> | Chemical/Biological Hazards | <input checked="" type="checkbox"/> | Reporting Procedures |
| <input checked="" type="checkbox"/> | Heat/Cold Stress | <input checked="" type="checkbox"/> | Directions to Medical Facility |
| <input checked="" type="checkbox"/> | Work/Support Zones | | Drug and Alcohol Policies |
| <input checked="" type="checkbox"/> | PPE | <input checked="" type="checkbox"/> | Medical Monitoring |
| <input checked="" type="checkbox"/> | Safe Work Practices | <input checked="" type="checkbox"/> | Evacuation/Egress Procedures |
| <input checked="" type="checkbox"/> | Air Monitoring | <input checked="" type="checkbox"/> | Communications |
| <input checked="" type="checkbox"/> | Task Training | | Confined Spaces |
| <input checked="" type="checkbox"/> | OE Precautions | | Other: |

4. Remarks:

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TETRA TECH NUS, INC.

| | | |
|--|-------------------------------------|-----------------------------------|
| Project: N62470-08-D-1001 Naval Air Station Cecil Field | | |
| Tailgate Safety Briefing | | |
| Date: <u>4-28-2010</u> | Location: <u>CECIL FIELD</u> | |
| Time: <u>0700</u> | Team #: _____ | |
| 1. Reason for Briefing: | | |
| <input checked="" type="checkbox"/> | Daily Safety Briefing | New Site Procedure |
| <input type="checkbox"/> | Initial Safety Briefing | New Site Information |
| <input type="checkbox"/> | New Task Briefing | Review of Site Information |
| <input type="checkbox"/> | Periodic Safety Meeting | Other: (Specify) |
| 2. Personnel Attending | | |
| Name | Signature | Position |
| Glen Childers | | SUXOS |
| Mark Soha | | Tech III |
| Steve Cassidy | | Tech III |
| Charles Everitt | | Tech II |
| Norman Piper | | Tech I |
| Briefing Given By: | | |
| Name | Signature | Position |
| Frank Montes | | QC/Safety |



TETRA TECH NUS, INC.

| 3. Topics: (Check All That Apply) | | | |
|--|------------------------------------|-------------------------------------|---------------------------------------|
| | Site Safety Personnel | <input checked="" type="checkbox"/> | Decontamination Procedures |
| <input checked="" type="checkbox"/> | Site/Work Area Description | <input checked="" type="checkbox"/> | Emergency Response/Equipment |
| <input checked="" type="checkbox"/> | Physical Hazards | <input checked="" type="checkbox"/> | On-Site Injuries/Illness |
| <input checked="" type="checkbox"/> | Chemical/Biological Hazards | <input checked="" type="checkbox"/> | Reporting Procedures |
| <input checked="" type="checkbox"/> | Heat/Cold Stress | <input checked="" type="checkbox"/> | Directions to Medical Facility |
| <input checked="" type="checkbox"/> | Work/Support Zones | | Drug and Alcohol Policies |
| <input checked="" type="checkbox"/> | PPE | | Medical Monitoring |
| <input checked="" type="checkbox"/> | Safe Work Practices | | Evacuation/Egress Procedures |
| | Air Monitoring | | Communications |
| | Task Training | | Confined Spaces |
| <input checked="" type="checkbox"/> | OE Precautions | | Other: |
| 4. Remarks: | | | |
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TETRA TECH NUS, INC.

Project: N62470-08-D-1001 Naval Air Station Cecil Field

Tailgate Safety Briefing

Date: 4-29-10

Location: CECIL FIELD

Time: 0700

Team #: _____

1. Reason for Briefing:

| | | | |
|-------------------------------------|-------------------------|--------------------------|----------------------------|
| <input checked="" type="checkbox"/> | Daily Safety Briefing | <input type="checkbox"/> | New Site Procedure |
| <input type="checkbox"/> | Initial Safety Briefing | <input type="checkbox"/> | New Site Information |
| <input type="checkbox"/> | New Task Briefing | <input type="checkbox"/> | Review of Site Information |
| <input type="checkbox"/> | Periodic Safety Meeting | <input type="checkbox"/> | Other: (Specify) |

2. Personnel Attending

| Name | Signature | Position |
|-----------------|-----------|----------|
| Glen Childers | | SUXOS |
| Mark Soha | | Tech III |
| Steve Cassidy | | Tech III |
| Charles Everitt | | Tech II |
| Norman Piper | | Tech I |

Briefing Given By:

| Name | Signature | Position |
|--------------|-----------|-----------|
| Frank Montes | | QC/Safety |

Jeff Fournier *FOL*

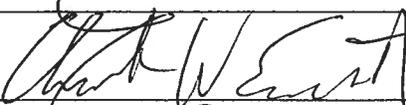
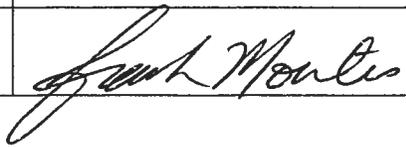


TETRA TECH NUS, INC.

| 3. Topics: (Check All That Apply) | | | |
|--|------------------------------------|-------------------------------------|---------------------------------------|
| <input checked="" type="checkbox"/> | Site Safety Personnel | <input checked="" type="checkbox"/> | Decontamination Procedures |
| <input checked="" type="checkbox"/> | Site/Work Area Description | <input checked="" type="checkbox"/> | Emergency Response/Equipment |
| <input checked="" type="checkbox"/> | Physical Hazards | <input checked="" type="checkbox"/> | On-Site Injuries/Illness |
| <input type="checkbox"/> | Chemical/Biological Hazards | <input type="checkbox"/> | Reporting Procedures |
| <input checked="" type="checkbox"/> | Heat/Cold Stress | <input checked="" type="checkbox"/> | Directions to Medical Facility |
| <input type="checkbox"/> | Work/Support Zones | <input type="checkbox"/> | Drug and Alcohol Policies |
| <input checked="" type="checkbox"/> | PPE | <input type="checkbox"/> | Medical Monitoring |
| <input checked="" type="checkbox"/> | Safe Work Practices | <input type="checkbox"/> | Evacuation/Egress Procedures |
| <input type="checkbox"/> | Air Monitoring | <input checked="" type="checkbox"/> | Communications |
| <input type="checkbox"/> | Task Training | <input type="checkbox"/> | Confined Spaces |
| <input checked="" type="checkbox"/> | OE Precautions | <input type="checkbox"/> | Other: |
| 4. Remarks: | | | |
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TETRA TECH NUS, INC.

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|--|--|-----------------------------------|
| Project: N62470-08-D-1001 Naval Air Station Cecil Field | | |
| Tailgate Safety Briefing | | |
| Date: <u>4-30-10</u> | Location: <u>CECIL FIELD</u> | |
| Time: <u>0700</u> | Team #: _____ | |
| 1. Reason for Briefing: | | |
| <input checked="" type="checkbox"/> | Daily Safety Briefing | New Site Procedure |
| <input type="checkbox"/> | Initial Safety Briefing | New Site Information |
| <input type="checkbox"/> | New Task Briefing | Review of Site Information |
| <input type="checkbox"/> | Periodic Safety Meeting | Other: (Specify) |
| 2. Personnel Attending | | |
| Name | Signature | Position |
| Glen Childers |  | SUXOS |
| Mark Soha |  | Tech III |
| Steve Cassidy |  | Tech III |
| Charles Everitt |  | Tech II |
| Norman Piper |  | Tech I |
| Briefing Given By: | | |
| Name | Signature | Position |
| Frank Montes |  | QC/Safety |



TETRA TECH NUS, INC.

3. Topics: (Check All That Apply)

| | | | |
|-------------------------------------|------------------------------------|-------------------------------------|---------------------------------------|
| <input checked="" type="checkbox"/> | Site Safety Personnel | <input checked="" type="checkbox"/> | Decontamination Procedures |
| <input checked="" type="checkbox"/> | Site/Work Area Description | <input checked="" type="checkbox"/> | Emergency Response/Equipment |
| <input checked="" type="checkbox"/> | Physical Hazards | <input checked="" type="checkbox"/> | On-Site Injuries/Illness |
| <input checked="" type="checkbox"/> | Chemical/Biological Hazards | <input checked="" type="checkbox"/> | Reporting Procedures |
| <input checked="" type="checkbox"/> | Heat/Cold Stress | <input checked="" type="checkbox"/> | Directions to Medical Facility |
| <input checked="" type="checkbox"/> | Work/Support Zones | <input checked="" type="checkbox"/> | Drug and Alcohol Policies |
| <input checked="" type="checkbox"/> | PPE | <input checked="" type="checkbox"/> | Medical Monitoring |
| <input checked="" type="checkbox"/> | Safe Work Practices | <input checked="" type="checkbox"/> | Evacuation/Egress Procedures |
| <input checked="" type="checkbox"/> | Air Monitoring | <input checked="" type="checkbox"/> | Communications |
| <input checked="" type="checkbox"/> | Task Training | <input checked="" type="checkbox"/> | Confined Spaces |
| <input checked="" type="checkbox"/> | OE Precautions | <input checked="" type="checkbox"/> | Other: |

4. Remarks:

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TETRA TECH NUS, INC.

| Project: N62470-08-D-1001 | | Naval Air Station Cecil Field | |
|-------------------------------------|-------------------------|-------------------------------|----------------------------|
| Tailgate Safety Briefing | | | |
| Date: <u>5-1-10</u> | | Location: <u>Cecil Field</u> | |
| Time: <u>0700</u> | | Team #: _____ | |
| 1. Reason for Briefing: | | | |
| <input checked="" type="checkbox"/> | Daily Safety Briefing | | New Site Procedure |
| | Initial Safety Briefing | | New Site Information |
| | New Task Briefing | | Review of Site Information |
| | Periodic Safety Meeting | | Other: (Specify) |
| 2. Personnel Attending | | | |
| Name | Signature | Position | |
| Glen Childers | | SUXOS | |
| Mark Soha | | Tech III | |
| Steve Cassidy | | Tech III | |
| Charles Everitt | | Tech II | |
| Norman Piper | | Tech I | |
| Briefing Given By: | | | |
| Name | Signature | Position | |
| Frank Montes | | QC/Safety | |



TETRA TECH NUS, INC.

3. Topics: (Check All That Apply)

| | |
|---|--|
| <input checked="" type="checkbox"/> Site Safety Personnel | <input checked="" type="checkbox"/> Decontamination Procedures |
| <input type="checkbox"/> Site/Work Area Description | <input type="checkbox"/> Emergency <input checked="" type="checkbox"/> Response/Equipment |
| <input checked="" type="checkbox"/> Physical Hazards | <input checked="" type="checkbox"/> On-Site Injuries/Illness |
| <input type="checkbox"/> Chemical/Biological Hazards | <input checked="" type="checkbox"/> Reporting Procedures |
| <input checked="" type="checkbox"/> Heat/Cold Stress | <input checked="" type="checkbox"/> Directions to Medical Facility |
| <input checked="" type="checkbox"/> Work/Support Zones | <input type="checkbox"/> Drug and Alcohol Policies |
| <input checked="" type="checkbox"/> PPE | <input type="checkbox"/> Medical Monitoring |
| <input checked="" type="checkbox"/> Safe Work Practices | <input checked="" type="checkbox"/> Evacuation/Egress Procedures |
| <input type="checkbox"/> Air Monitoring | <input checked="" type="checkbox"/> Communications |
| <input checked="" type="checkbox"/> Task Training | <input type="checkbox"/> Confined Spaces |
| <input checked="" type="checkbox"/> OE Precautions | <input type="checkbox"/> Other: |

4. Remarks:

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TETRA TECH NUS, INC.

Project: N62470-08-D-1001 Naval Air Station Cecil Field

Tailgate Safety Briefing

Date: 5/2/10

Location: CECIL FIELD

Time: 0700

Team #: _____

1. Reason for Briefing:

| | | | |
|-------------------------------------|-------------------------|--------------------------|----------------------------|
| <input checked="" type="checkbox"/> | Daily Safety Briefing | <input type="checkbox"/> | New Site Procedure |
| <input type="checkbox"/> | Initial Safety Briefing | <input type="checkbox"/> | New Site Information |
| <input type="checkbox"/> | New Task Briefing | <input type="checkbox"/> | Review of Site Information |
| <input type="checkbox"/> | Periodic Safety Meeting | <input type="checkbox"/> | Other: (Specify) |

2. Personnel Attending

| Name | Signature | Position |
|---------------------------|-----------|-----------|
| Glen Childers | | SUXOS |
| Steve Cassidy | | Tech III |
| Charles Everitt | | Tech II |
| Norm Piper | | Tech I |
| Frank Loney | | Tech I |
| Briefing Given By: | | |
| Name | Signature | Position |
| Frank Montes | | QC/Safety |



TETRA TECH NUS, INC.

3. Topics: (Check All That Apply)

| | | | |
|---|------------------------------------|---|---------------------------------------|
| | Site Safety Personnel | | Decontamination Procedures |
| ✓ | Site/Work Area Description | | Emergency Response/Equipment |
| ✓ | Physical Hazards | ✓ | On-Site Injuries/Illness |
| | Chemical/Biological Hazards | ✓ | Reporting Procedures |
| ✓ | Heat/Cold Stress | | Directions to Medical Facility |
| | Work/Support Zones | | Drug and Alcohol Policies |
| ✓ | PPE | | Medical Monitoring |
| ✓ | Safe Work Practices | | Evacuation/Egress Procedures |
| | Air Monitoring | ✓ | Communications |
| | Task Training | | Confined Spaces |
| ✓ | OE Precautions | | Other: |

4. Remarks:

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TETRA TECH NUS, INC.

Project: N62470-08-D-1001 Naval Air Station Cecil Field

Tailgate Safety Briefing

Date: 5/3/10

Location: CECIL FIELD

Time: 0700

Team #: _____

1. Reason for Briefing:

| | | | |
|-------------------------------------|-------------------------|--------------------------|----------------------------|
| <input checked="" type="checkbox"/> | Daily Safety Briefing | <input type="checkbox"/> | New Site Procedure |
| <input type="checkbox"/> | Initial Safety Briefing | <input type="checkbox"/> | New Site Information |
| <input type="checkbox"/> | New Task Briefing | <input type="checkbox"/> | Review of Site Information |
| <input type="checkbox"/> | Periodic Safety Meeting | <input type="checkbox"/> | Other: (Specify) |

2. Personnel Attending

| Name | Signature | Position |
|---------------------------|-----------|-----------|
| Glen Childers | | SUXOS |
| Steve Cassidy | | Tech III |
| Charles Everitt | | Tech II |
| Norm Piper | | Tech I |
| Frank Loney | | Tech I |
| Briefing Given By: | | |
| Name | Signature | Position |
| Frank Montes | | QC/Safety |



TETRA TECH NUS, INC.

3. Topics: (Check All That Apply)

| | | | |
|-------------------------------------|-----------------------------|--|--------------------------------|
| <input checked="" type="checkbox"/> | Site Safety Personnel | | Decontamination Procedures |
| | Site/Work Area Description | | Emergency Response/Equipment |
| <input checked="" type="checkbox"/> | Physical Hazards | | On-Site Injuries/Illness |
| | Chemical/Biological Hazards | | Reporting Procedures |
| <input checked="" type="checkbox"/> | Heat/Cold Stress | | Directions to Medical Facility |
| | Work/Support Zones | | Drug and Alcohol Policies |
| <input checked="" type="checkbox"/> | PPE | | Medical Monitoring |
| | Safe Work Practices | | Evacuation/Egress Procedures |
| | Air Monitoring | | Communications |
| | Task Training | | Confined Spaces |
| <input checked="" type="checkbox"/> | OE Precautions | | Other: |

4. Remarks:

WEATHER: 72°, PARTLY CLOUDY, WINDS S @ 10-20 MPH, HIGH 94°

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TETRA TECH NUS, INC.

Project: N62470-08-D-1001 Naval Air Station Cecil Field

Tailgate Safety Briefing

Date: 5-4-10 **Location:** CECIL FIELD

Time: 0900 **Team #:** _____

1. Reason for Briefing:

| | | | |
|-------------------------------------|-------------------------|--|----------------------------|
| <input checked="" type="checkbox"/> | Daily Safety Briefing | | New Site Procedure |
| <input type="checkbox"/> | Initial Safety Briefing | | New Site Information |
| <input type="checkbox"/> | New Task Briefing | | Review of Site Information |
| <input type="checkbox"/> | Periodic Safety Meeting | | Other: (Specify) |

2. Personnel Attending

| Name | Signature | Position |
|---------------------------|-----------|-----------|
| Glen Childers | | SUXOS |
| Steve Cassidy | | Tech III |
| Charles Everitt | | Tech II |
| Norm Piper | | Tech I |
| Frank Loney | | Tech I |
| Briefing Given By: | | |
| Name | Signature | Position |
| Frank Montes | | QC/Safety |



TETRA TECH NUS, INC.

3. Topics: (Check All That Apply)

| | | | |
|---|------------------------------------|--|---------------------------------------|
| | Site Safety Personnel | | Decontamination Procedures |
| ✓ | Site/Work Area Description | | Emergency Response/Equipment |
| ✓ | Physical Hazards | | On-Site Injuries/Illness |
| | Chemical/Biological Hazards | | Reporting Procedures |
| ✓ | Heat/Cold Stress | | Directions to Medical Facility |
| | Work/Support Zones | | Drug and Alcohol Policies |
| ✓ | PPE | | Medical Monitoring |
| ✓ | Safe Work Practices | | Evacuation/Egress Procedures |
| | Air Monitoring | | Communications |
| | Task Training | | Confined Spaces |
| ✓ | OE Precautions | | Other: |

4. Remarks:

*Stormy weather forecasted after noon
heavy rain & thunder*



TETRA TECH NUS, INC.

Project: N62470-08-D-1001 Naval Air Station Cecil Field

Tailgate Safety Briefing

Date: 5-5-10

Location: CECIL FIELD

Time: 0700

Team #: _____

Reason for Briefing:

| | | | |
|-------------------------------------|-------------------------|--|----------------------------|
| <input checked="" type="checkbox"/> | Daily Safety Briefing | | New Site Procedure |
| <input type="checkbox"/> | Initial Safety Briefing | | New Site Information |
| <input type="checkbox"/> | New Task Briefing | | Review of Site Information |
| <input type="checkbox"/> | Periodic Safety Meeting | | Other: (Specify) |

2. Personnel Attending

| Name | Signature | Position |
|---------------------------|-----------|-----------|
| Glen Childers | | SUXOS |
| Steve Cassidy | | Tech III |
| Charles Everitt | | Tech II |
| Norm Piper | | Tech I |
| Frank Loney | | Tech I |
| Briefing Given By: | | |
| Name | Signature | Position |
| Frank Montes | | QC/Safety |



TETRA TECH NUS, INC.

3. Topics: (Check All That Apply)

| | | | |
|-------------------------------------|------------------------------------|-------------------------------------|---------------------------------------|
| <input type="checkbox"/> | Site Safety Personnel | <input checked="" type="checkbox"/> | Decontamination Procedures |
| <input checked="" type="checkbox"/> | Site/Work Area Description | <input type="checkbox"/> | Emergency Response/Equipment |
| <input checked="" type="checkbox"/> | Physical Hazards | <input checked="" type="checkbox"/> | On-Site Injuries/Illness |
| <input type="checkbox"/> | Chemical/Biological Hazards | <input checked="" type="checkbox"/> | Reporting Procedures |
| <input checked="" type="checkbox"/> | Heat/Cold Stress | <input checked="" type="checkbox"/> | Directions to Medical Facility |
| <input type="checkbox"/> | Work/Support Zones | <input type="checkbox"/> | Drug and Alcohol Policies |
| <input checked="" type="checkbox"/> | PPE | <input type="checkbox"/> | Medical Monitoring |
| <input checked="" type="checkbox"/> | Safe Work Practices | <input checked="" type="checkbox"/> | Evacuation/Egress Procedures |
| <input type="checkbox"/> | Air Monitoring | <input type="checkbox"/> | Communications |
| <input type="checkbox"/> | Task Training | <input type="checkbox"/> | Confined Spaces |
| <input checked="" type="checkbox"/> | OE Precautions | <input type="checkbox"/> | Other: |

4. Remarks:

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TETRA TECH NUS, INC.

Project: N62470-08-D-1001 Naval Air Station Cecil Field

Tailgate Safety Briefing

Date: 5-6-10

Location: CECIL FIELD

Time: 0700

Team #: _____

1. Reason for Briefing:

| | | | |
|-------------------------------------|-------------------------|--|----------------------------|
| <input checked="" type="checkbox"/> | Daily Safety Briefing | | New Site Procedure |
| <input type="checkbox"/> | Initial Safety Briefing | | New Site Information |
| <input type="checkbox"/> | New Task Briefing | | Review of Site Information |
| <input type="checkbox"/> | Periodic Safety Meeting | | Other: (Specify) |

2. Personnel Attending

| Name | Signature | Position |
|---------------------------|-----------|-----------|
| Glen Childers | | SUXOS |
| Steve Cassidy | | Tech III |
| Charles Everitt | | Tech II |
| Norm Piper | | Tech I |
| Frank Loney | | Tech I |
| Briefing Given By: | | |
| Name | Signature | Position |
| Frank Montes | | QC/Safety |



TETRA TECH NUS, INC.

3. Topics: (Check All That Apply)

| | | | |
|-------------------------------------|------------------------------------|-------------------------------------|---------------------------------------|
| <input checked="" type="checkbox"/> | Site Safety Personnel | <input checked="" type="checkbox"/> | Decontamination Procedures |
| <input checked="" type="checkbox"/> | Site/Work Area Description | | Emergency Response/Equipment |
| <input checked="" type="checkbox"/> | Physical Hazards | <input checked="" type="checkbox"/> | On-Site Injuries/Illness |
| | Chemical/Biological Hazards | <input checked="" type="checkbox"/> | Reporting Procedures |
| <input checked="" type="checkbox"/> | Heat/Cold Stress | <input checked="" type="checkbox"/> | Directions to Medical Facility |
| | Work/Support Zones | | Drug and Alcohol Policies |
| <input checked="" type="checkbox"/> | PPE | | Medical Monitoring |
| | Safe Work Practices | <input checked="" type="checkbox"/> | Evacuation/Egress Procedures |
| | Air Monitoring | | Communications |
| <input checked="" type="checkbox"/> | Task Training | | Confined Spaces |
| <input checked="" type="checkbox"/> | OE Precautions | | Other: |

4. Remarks:

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TETRA TECH NUS, INC.

Project: N62470-08-D-1001 Naval Air Station Cecil Field

Tailgate Safety Briefing

Date: 5-16-10

Location: CECIL FIELD

Time: 0700

Team #: _____

1. Reason for Briefing:

| | | | |
|-------------------------------------|-------------------------|--|----------------------------|
| <input checked="" type="checkbox"/> | Daily Safety Briefing | | New Site Procedure |
| <input type="checkbox"/> | Initial Safety Briefing | | New Site Information |
| <input type="checkbox"/> | New Task Briefing | | Review of Site Information |
| <input type="checkbox"/> | Periodic Safety Meeting | | Other: (Specify) |

2. Personnel Attending

| Name | Signature | Position |
|---------------|-----------|----------|
| Glen Childers | | SUXOS |
| Mark Soha | | Tech III |
| Norm Piper | | Tech I |
| Frank Loney | | Tech I |

Briefing Given By:

| Name | Signature | Position |
|--------------|-----------|-----------|
| Frank Montes | | QC/Safety |



TETRA TECH NUS, INC.

3. Topics: (Check All That Apply)

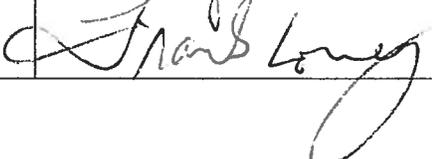
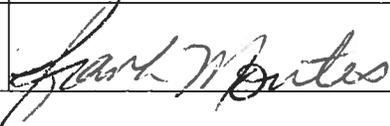
| | | | |
|-------------------------------------|------------------------------------|-------------------------------------|---------------------------------------|
| <input checked="" type="checkbox"/> | Site Safety Personnel | | Decontamination Procedures |
| <input checked="" type="checkbox"/> | Site/Work Area Description | | Emergency Response/Equipment |
| <input checked="" type="checkbox"/> | Physical Hazards | <input checked="" type="checkbox"/> | On-Site Injuries/Illness |
| | Chemical/Biological Hazards | <input checked="" type="checkbox"/> | Reporting Procedures |
| <input checked="" type="checkbox"/> | Heat/Cold Stress | | Directions to Medical Facility |
| | Work/Support Zones | | Drug and Alcohol Policies |
| <input checked="" type="checkbox"/> | PPE | | Medical Monitoring |
| <input checked="" type="checkbox"/> | Safe Work Practices | <input checked="" type="checkbox"/> | Evacuation/Egress Procedures |
| | Air Monitoring | | Communications |
| | Task Training | | Confined Spaces |
| <input checked="" type="checkbox"/> | OE Precautions | | Other: |

4. Remarks:

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TETRA TECH NUS, INC.

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| Project: N62470-08-D-1001 Naval Air Station Cecil Field | | |
| Tailgate Safety Briefing | | |
| Date: <u>5-11-10</u> | Location: <u>CECIL FIELD</u> | |
| Time: <u>0700</u> | Team #: _____ | |
| 1. Reason for Briefing: | | |
| <input checked="" type="checkbox"/> | Daily Safety Briefing | New Site Procedure |
| <input type="checkbox"/> | Initial Safety Briefing | New Site Information |
| <input type="checkbox"/> | New Task Briefing | Review of Site Information |
| <input type="checkbox"/> | Periodic Safety Meeting | Other: (Specify) |
| 2. Personnel Attending | | |
| Name | Signature | Position |
| Glen Childers |  | SUXOS |
| Mark Soha |  | Tech III |
| Norm Piper |  | Tech I |
| Frank Loney |  | Tech I |
| Briefing Given By: | | |
| Name | Signature | Position |
| Frank Montes |  | QC/Safety |



TETRA TECH NUS, INC.

3. Topics: (Check All That Apply)

| | | | |
|-------------------------------------|------------------------------------|-------------------------------------|---------------------------------------|
| <input checked="" type="checkbox"/> | Site Safety Personnel | <input checked="" type="checkbox"/> | Decontamination Procedures |
| <input type="checkbox"/> | Site/Work Area Description | <input type="checkbox"/> | Emergency Response/Equipment |
| <input checked="" type="checkbox"/> | Physical Hazards | <input checked="" type="checkbox"/> | On-Site Injuries/Illness |
| <input type="checkbox"/> | Chemical/Biological Hazards | <input checked="" type="checkbox"/> | Reporting Procedures |
| <input checked="" type="checkbox"/> | Heat/Cold Stress | <input checked="" type="checkbox"/> | Directions to Medical Facility |
| <input checked="" type="checkbox"/> | Work/Support Zones | <input type="checkbox"/> | Drug and Alcohol Policies |
| <input checked="" type="checkbox"/> | PPE | <input type="checkbox"/> | Medical Monitoring |
| <input type="checkbox"/> | Safe Work Practices | <input checked="" type="checkbox"/> | Evacuation/Egress Procedures |
| <input type="checkbox"/> | Air Monitoring | <input checked="" type="checkbox"/> | Communications |
| <input type="checkbox"/> | Task Training | <input type="checkbox"/> | Confined Spaces |
| <input checked="" type="checkbox"/> | OE Precautions | <input type="checkbox"/> | Other: |

4. Remarks:

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TETRA TECH NUS, INC.

Project: N62470-08-D-1001 Naval Air Station Cecil Field

Tailgate Safety Briefing

Date: 5/12/10

Location: Cecil Field

Time: 0700

Team #: _____

1. Reason for Briefing:

| | | | |
|-------------------------------------|-------------------------|--------------------------|----------------------------|
| <input checked="" type="checkbox"/> | Daily Safety Briefing | <input type="checkbox"/> | New Site Procedure |
| <input type="checkbox"/> | Initial Safety Briefing | <input type="checkbox"/> | New Site Information |
| <input type="checkbox"/> | New Task Briefing | <input type="checkbox"/> | Review of Site Information |
| <input type="checkbox"/> | Periodic Safety Meeting | <input type="checkbox"/> | Other: (Specify) |

2. Personnel Attending

| Name | Signature | Position |
|---------------|-----------|----------|
| Glen Childers | | SUXOS |
| Mark Soha | | Tech III |
| Norm Piper | | Tech I |
| Frank Loney | | Tech I |

Briefing Given By:

| Name | Signature | Position |
|--------------|-----------|-----------|
| Frank Montes | | QC/Safety |



TETRA TECH NUS, INC.

3. Topics: (Check All That Apply)

| | | | |
|---|------------------------------------|--|---------------------------------------|
| | Site Safety Personnel | | Decontamination Procedures |
| | Site/Work Area Description | | Emergency Response/Equipment |
| y | Physical Hazards | | On-Site Injuries/Illness |
| | Chemical/Biological Hazards | | Reporting Procedures |
| y | Heat/Cold Stress | | Directions to Medical Facility |
| | Work/Support Zones | | Drug and Alcohol Policies |
| | PPE | | Medical Monitoring |
| | Safe Work Practices | | Evacuation/Egress Procedures |
| | Air Monitoring | | Communications |
| | Task Training | | Confined Spaces |
| x | OE Precautions | | Other: |

4. Remarks:

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TETRA TECH NUS, INC.

Project: N62470-08-D-1001 Naval Air Station Cecil Field

Tailgate Safety Briefing

Date: 5-13-10

Location: CECIL FIELD

Time: 0700

Team #: _____

1. Reason for Briefing:

| | | | |
|-------------------------------------|-------------------------|--|----------------------------|
| <input checked="" type="checkbox"/> | Daily Safety Briefing | | New Site Procedure |
| <input type="checkbox"/> | Initial Safety Briefing | | New Site Information |
| <input type="checkbox"/> | New Task Briefing | | Review of Site Information |
| <input type="checkbox"/> | Periodic Safety Meeting | | Other: (Specify) |

2. Personnel Attending

| Name | Signature | Position |
|---------------|-----------|----------|
| Glen Childers | | SUXOS |
| Mark Soha | | Tech III |
| Norm Piper | | Tech I |
| Frank Loney | | Tech I |

Briefing Given By:

| Name | Signature | Position |
|--------------|-----------|-----------|
| Frank Montes | | QC/Safety |



TETRA TECH NUS, INC.

| 3. Topics: (Check All That Apply) | |
|---|---|
| <input checked="" type="checkbox"/> Site Safety Personnel | <input checked="" type="checkbox"/> Decontamination Procedures |
| <input checked="" type="checkbox"/> Site/Work Area Description | <input type="checkbox"/> Emergency Response/Equipment |
| <input checked="" type="checkbox"/> Physical Hazards | <input checked="" type="checkbox"/> On-Site Injuries/Illness |
| <input type="checkbox"/> Chemical/Biological Hazards | <input checked="" type="checkbox"/> Reporting Procedures |
| <input checked="" type="checkbox"/> Heat/Cold Stress | <input checked="" type="checkbox"/> Directions to Medical Facility |
| <input checked="" type="checkbox"/> Work/Support Zones | <input type="checkbox"/> Drug and Alcohol Policies |
| <input checked="" type="checkbox"/> PPE | <input type="checkbox"/> Medical Monitoring |
| <input checked="" type="checkbox"/> Safe Work Practices | <input checked="" type="checkbox"/> Evacuation/Egress Procedures |
| <input type="checkbox"/> Air Monitoring | <input type="checkbox"/> Communications |
| <input checked="" type="checkbox"/> Task Training | <input type="checkbox"/> Confined Spaces |
| <input checked="" type="checkbox"/> OE Precautions | <input type="checkbox"/> Other: |
| 4. Remarks: | |
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TETRA TECH NUS, INC.

| | | |
|--|-------------------------------------|-----------------------------------|
| Project: N62470-08-D-1001 Naval Air Station Cecil Field | | |
| Tailgate Safety Briefing | | |
| Date: <u>5-14-10</u> | Location: <u>CECIL FIELD</u> | |
| Time: <u>0730</u> | Team #: _____ | |
| 1. Reason for Briefing: | | |
| <input checked="" type="checkbox"/> Daily Safety Briefing | | New Site Procedure |
| <input type="checkbox"/> Initial Safety Briefing | | New Site Information |
| <input type="checkbox"/> New Task Briefing | | Review of Site Information |
| <input type="checkbox"/> Periodic Safety Meeting | | Other: (Specify) |
| 2. Personnel Attending | | |
| Name | Signature | Position |
| Glen Childers | | SUXOS |
| Mark Soha | | Tech III |
| Norm Piper | | Tech I |
| Frank Loney | | Tech I |
| Briefing Given By: | | |
| Name | Signature | Position |
| Frank Montes | | QC/Safety |



TETRA TECH NUS, INC.

| 3. Topics: (Check All That Apply) | | | |
|--|------------------------------------|-------------------------------------|---------------------------------------|
| <input checked="" type="checkbox"/> | Site Safety Personnel | <input checked="" type="checkbox"/> | Decontamination Procedures |
| <input checked="" type="checkbox"/> | Site/Work Area Description | | Emergency Response/Equipment |
| <input checked="" type="checkbox"/> | Physical Hazards | <input checked="" type="checkbox"/> | On-Site Injuries/Illness |
| | Chemical/Biological Hazards | <input checked="" type="checkbox"/> | Reporting Procedures |
| <input checked="" type="checkbox"/> | Heat/Cold Stress | | Directions to Medical Facility |
| | Work/Support Zones | | Drug and Alcohol Policies |
| <input checked="" type="checkbox"/> | PPE | | Medical Monitoring |
| | Safe Work Practices | | Evacuation/Egress Procedures |
| | Air Monitoring | <input checked="" type="checkbox"/> | Communications |
| | Task Training | | Confined Spaces |
| <input checked="" type="checkbox"/> | OE Precautions | | Other: |
| 4. Remarks: | | | |
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TETRA TECH NUS, INC.

Project: N62470-08-D-1001 Naval Air Station Cecil Field

Tailgate Safety Briefing

Date: 5-15-10

Location: CECIL FIELD

Time: 0700

Team #: _____

1. Reason for Briefing:

| | | | |
|--------------------------|-------------------------|--------------------------|----------------------------|
| <input type="checkbox"/> | Daily Safety Briefing | <input type="checkbox"/> | New Site Procedure |
| <input type="checkbox"/> | Initial Safety Briefing | <input type="checkbox"/> | New Site Information |
| <input type="checkbox"/> | New Task Briefing | <input type="checkbox"/> | Review of Site Information |
| <input type="checkbox"/> | Periodic Safety Meeting | <input type="checkbox"/> | Other: (Specify) |

2. Personnel Attending

| Name | Signature | Position |
|---------------|-----------|----------|
| Glen Childers | | SUXOS |
| Mark Soha | | Tech III |
| Norm Piper | | Tech I |
| Frank Loney | | Tech I |

Briefing Given By:

| Name | Signature | Position |
|--------------|-----------|-----------|
| Frank Montes | | QC/Safety |



TETRA TECH NUS, INC.

| 3. Topics: (Check All That Apply) | | |
|--|------------------------------------|---|
| <input checked="" type="checkbox"/> | Site Safety Personnel | <input checked="" type="checkbox"/> Decontamination Procedures |
| <input checked="" type="checkbox"/> | Site/Work Area Description | <input type="checkbox"/> Emergency Response/Equipment |
| <input checked="" type="checkbox"/> | Physical Hazards | <input checked="" type="checkbox"/> On-Site Injuries/Illness |
| <input type="checkbox"/> | Chemical/Biological Hazards | <input checked="" type="checkbox"/> Reporting Procedures |
| <input checked="" type="checkbox"/> | Heat/Cold Stress | <input checked="" type="checkbox"/> Directions to Medical Facility |
| <input checked="" type="checkbox"/> | Work/Support Zones | <input type="checkbox"/> Drug and Alcohol Policies |
| <input checked="" type="checkbox"/> | PPE | <input type="checkbox"/> Medical Monitoring |
| <input checked="" type="checkbox"/> | Safe Work Practices | <input type="checkbox"/> Evacuation/Egress Procedures |
| <input type="checkbox"/> | Air Monitoring | <input checked="" type="checkbox"/> Communications |
| <input checked="" type="checkbox"/> | Task Training | <input type="checkbox"/> Confined Spaces |
| <input checked="" type="checkbox"/> | OE Precautions | <input type="checkbox"/> Other: |
| 4. Remarks: | | |
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TETRA TECH NUS, INC.

Project: N62470-08-D-1001 Naval Air Station Cecil Field

Tailgate Safety Briefing

Date: 5-18-10

Location: CECIL FIELD

Time: 0700

Team #: _____

1. Reason for Briefing:

| | | | |
|-------------------------------------|-------------------------|--|----------------------------|
| <input checked="" type="checkbox"/> | Daily Safety Briefing | | New Site Procedure |
| <input type="checkbox"/> | Initial Safety Briefing | | New Site Information |
| <input type="checkbox"/> | New Task Briefing | | Review of Site Information |
| <input type="checkbox"/> | Periodic Safety Meeting | | Other: (Specify) |

2. Personnel Attending

| Name | Signature | Position |
|---------------|-----------|----------|
| Glen Childers | | SUXOS |
| Mark Soha | | Tech III |
| Norm Piper | | Tech I |
| Frank Loney | | Tech I |

Briefing Given By:

| Name | Signature | Position |
|--------------|-----------|-----------|
| Frank Montes | | QC/Safety |



TETRA TECH NUS, INC.

3. Topics: (Check All That Apply)

| | | | |
|-------------------------------------|------------------------------------|-------------------------------------|---------------------------------------|
| <input checked="" type="checkbox"/> | Site Safety Personnel | <input checked="" type="checkbox"/> | Decontamination Procedures |
| <input checked="" type="checkbox"/> | Site/Work Area Description | <input checked="" type="checkbox"/> | Emergency Response/Equipment |
| <input checked="" type="checkbox"/> | Physical Hazards | <input checked="" type="checkbox"/> | On-Site Injuries/Illness |
| | Chemical/Biological Hazards | <input checked="" type="checkbox"/> | Reporting Procedures |
| <input checked="" type="checkbox"/> | Heat/Cold Stress | | Directions to Medical Facility |
| | Work/Support Zones | | Drug and Alcohol Policies |
| <input checked="" type="checkbox"/> | PPE | | Medical Monitoring |
| <input checked="" type="checkbox"/> | Safe Work Practices | <input checked="" type="checkbox"/> | Evacuation/Egress Procedures |
| | Air Monitoring | <input checked="" type="checkbox"/> | Communications |
| | Task Training | | Confined Spaces |
| <input checked="" type="checkbox"/> | OE Precautions | | Other: |

4. Remarks:

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TETRA TECH NUS, INC.

Project: N62470-08-D-1001 Naval Air Station Cecil Field

Tailgate Safety Briefing

Date: 5-19-10

Location: CECIL FIELD

Time: 0930

Team #: _____

1. Reason for Briefing:

| | | | |
|-------------------------------------|-------------------------|--|----------------------------|
| <input checked="" type="checkbox"/> | Daily Safety Briefing | | New Site Procedure |
| <input type="checkbox"/> | Initial Safety Briefing | | New Site Information |
| <input type="checkbox"/> | New Task Briefing | | Review of Site Information |
| <input type="checkbox"/> | Periodic Safety Meeting | | Other: (Specify) |

2. Personnel Attending

| Name | Signature | Position |
|---------------|-----------|----------|
| Glen Childers | | SUXOS |
| Mark Soha | | Tech III |
| Norm Piper | | Tech I |
| Frank Loney | | Tech I |

Briefing Given By:

| Name | Signature | Position |
|--------------|-----------|-----------|
| Frank Montes | | QC/Safety |



TETRA TECH NUS, INC.

3. Topics: (Check All That Apply)

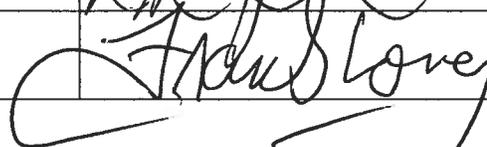
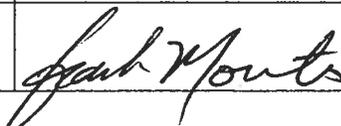
| | | | |
|-------------------------------------|------------------------------------|-------------------------------------|---------------------------------------|
| <input checked="" type="checkbox"/> | Site Safety Personnel | <input checked="" type="checkbox"/> | Decontamination Procedures |
| <input checked="" type="checkbox"/> | Site/Work Area Description | <input checked="" type="checkbox"/> | Emergency Response/Equipment |
| <input checked="" type="checkbox"/> | Physical Hazards | <input checked="" type="checkbox"/> | On-Site Injuries/Illness |
| | Chemical/Biological Hazards | <input checked="" type="checkbox"/> | Reporting Procedures |
| <input checked="" type="checkbox"/> | Heat/Cold Stress | <input checked="" type="checkbox"/> | Directions to Medical Facility |
| | Work/Support Zones | | Drug and Alcohol Policies |
| <input checked="" type="checkbox"/> | PPE | | Medical Monitoring |
| <input checked="" type="checkbox"/> | Safe Work Practices | <input checked="" type="checkbox"/> | Evacuation/Egress Procedures |
| | Air Monitoring | <input checked="" type="checkbox"/> | Communications |
| <input checked="" type="checkbox"/> | Task Training | | Confined Spaces |
| <input checked="" type="checkbox"/> | OE Precautions | | Other: |

4. Remarks:

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TETRA TECH NUS, INC.

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|-------------------------------------|--|-------------------------------|----------------------------|
| Project: 112G02267 | | Naval Air Station Cecil Field | |
| Tailgate Safety Briefing | | | |
| Date: <u>5-20-10</u> | | Location: <u>Cecil Field</u> | |
| Time: <u>0700</u> | | Team #: _____ | |
| 1. Reason for Briefing: | | | |
| <input checked="" type="checkbox"/> | Daily Safety Briefing | | New Site Procedure |
| | Initial Safety Briefing | | New Site Information |
| | New Task Briefing | | Review of Site Information |
| | Periodic Safety Meeting | | Other: (Specify) |
| 2. Personnel Attending | | | |
| Name | Signature | Position | |
| Glen Childers |  | SUXO | |
| Mark Soha | | Tech III | |
| Norm Piper |  | Tech I | |
| Frank Loney |  | Tech I | |
| Briefing Given By: | | | |
| Name | Signature | Position | |
| Frank Montes |  | QC/Safety | |



TETRA TECH NUS, INC.

3. Topics: (Check All That Apply)

| | | | |
|-------------------------------------|------------------------------------|-------------------------------------|---------------------------------------|
| <input checked="" type="checkbox"/> | Site Safety Personnel | <input checked="" type="checkbox"/> | Decontamination Procedures |
| <input checked="" type="checkbox"/> | Site/Work Area Description | <input checked="" type="checkbox"/> | Emergency Response/Equipment |
| <input checked="" type="checkbox"/> | Physical Hazards | <input checked="" type="checkbox"/> | On-Site Injuries/Illness |
| <input checked="" type="checkbox"/> | Chemical/Biological Hazards | <input checked="" type="checkbox"/> | Reporting Procedures |
| <input checked="" type="checkbox"/> | Heat/Cold Stress | <input checked="" type="checkbox"/> | Directions to Medical Facility |
| <input checked="" type="checkbox"/> | Work/Support Zones | <input checked="" type="checkbox"/> | Drug and Alcohol Policies |
| <input checked="" type="checkbox"/> | PPE | <input checked="" type="checkbox"/> | Medical Monitoring |
| <input checked="" type="checkbox"/> | Safe Work Practices | <input checked="" type="checkbox"/> | Evacuation/Egress Procedures |
| <input checked="" type="checkbox"/> | Air Monitoring | <input checked="" type="checkbox"/> | Communications |
| <input checked="" type="checkbox"/> | Task Training | <input checked="" type="checkbox"/> | Confined Spaces |
| <input checked="" type="checkbox"/> | OE Precautions | <input checked="" type="checkbox"/> | Other: |

4. Remarks:

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TETRA TECH NUS, INC.

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|-------------------------------------|-------------------------|-------------------------------|----------------------------|
| Project: 112G02267 | | Naval Air Station Cecil Field | |
| Tailgate Safety Briefing | | | |
| Date: <u>5-21-10</u> | | Location: <u>CECIL FIELD</u> | |
| Time: <u>0700</u> | | Team #: _____ | |
| 1. Reason for Briefing: | | | |
| <input checked="" type="checkbox"/> | Daily Safety Briefing | | New Site Procedure |
| | Initial Safety Briefing | | New Site Information |
| | New Task Briefing | | Review of Site Information |
| | Periodic Safety Meeting | | Other: (Specify) |
| 2. Personnel Attending | | | |
| Name | Signature | Position | |
| Glen Childers | | SUXO | |
| Mark Soha | | Tech III | |
| Norm Piper | | Tech I | |
| Frank Loney | | Tech I | |
| Briefing Given By: | | | |
| Name | Signature | Position | |
| Frank Montes | | QC/Safety | |



TETRA TECH NUS, INC.

3. Topics: (Check All That Apply)

| | | | |
|-------------------------------------|------------------------------------|-------------------------------------|---------------------------------------|
| <input checked="" type="checkbox"/> | Site Safety Personnel | <input checked="" type="checkbox"/> | Decontamination Procedures |
| <input checked="" type="checkbox"/> | Site/Work Area Description | <input checked="" type="checkbox"/> | Emergency Response/Equipment |
| <input checked="" type="checkbox"/> | Physical Hazards | <input checked="" type="checkbox"/> | On-Site Injuries/Illness |
| <input type="checkbox"/> | Chemical/Biological Hazards | <input checked="" type="checkbox"/> | Reporting Procedures |
| <input checked="" type="checkbox"/> | Heat/Cold Stress | <input checked="" type="checkbox"/> | Directions to Medical Facility |
| <input type="checkbox"/> | Work/Support Zones | <input type="checkbox"/> | Drug and Alcohol Policies |
| <input checked="" type="checkbox"/> | PPE | <input type="checkbox"/> | Medical Monitoring |
| <input checked="" type="checkbox"/> | Safe Work Practices | <input type="checkbox"/> | Evacuation/Egress Procedures |
| <input type="checkbox"/> | Air Monitoring | <input checked="" type="checkbox"/> | Communications |
| <input checked="" type="checkbox"/> | Task Training | <input type="checkbox"/> | Confined Spaces |
| <input checked="" type="checkbox"/> | OE Precautions | <input type="checkbox"/> | Other: |

4. Remarks:

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TETRA TECH NUS, INC.

| | | | |
|-------------------------------------|-------------------------|-------------------------------|----------------------------|
| Project: 112G02267 | | Naval Air Station Cecil Field | |
| Tailgate Safety Briefing | | | |
| Date: <u>0700</u> | | Location: <u>CECIL FIELD</u> | |
| Time: <u>5-22-10</u> | | Team #: _____ | |
| 1. Reason for Briefing: | | | |
| <input checked="" type="checkbox"/> | Daily Safety Briefing | | New Site Procedure |
| | Initial Safety Briefing | | New Site Information |
| | New Task Briefing | | Review of Site Information |
| | Periodic Safety Meeting | | Other: (Specify) |
| 2. Personnel Attending | | | |
| Name | Signature | Position | |
| Glen Childers | | SUXO | |
| Mark Soha | | Tech III | |
| Norm Piper | | Tech I | |
| Frank Loney | | Tech I | |
| Briefing Given By: | | | |
| Name | Signature | Position | |
| Frank Montes | | QC/Safety | |



TETRA TECH NUS, INC.

3. Topics: (Check All That Apply)

| | | | |
|-------------------------------------|------------------------------------|-------------------------------------|---------------------------------------|
| <input checked="" type="checkbox"/> | Site Safety Personnel | <input checked="" type="checkbox"/> | Decontamination Procedures |
| <input checked="" type="checkbox"/> | Site/Work Area Description | <input checked="" type="checkbox"/> | Emergency Response/Equipment |
| <input checked="" type="checkbox"/> | Physical Hazards | <input checked="" type="checkbox"/> | On-Site Injuries/Illness |
| | Chemical/Biological Hazards | <input checked="" type="checkbox"/> | Reporting Procedures |
| <input checked="" type="checkbox"/> | Heat/Cold Stress | <input checked="" type="checkbox"/> | Directions to Medical Facility |
| | Work/Support Zones | | Drug and Alcohol Policies |
| <input checked="" type="checkbox"/> | PPE | | Medical Monitoring |
| <input checked="" type="checkbox"/> | Safe Work Practices | <input checked="" type="checkbox"/> | Evacuation/Egress Procedures |
| | Air Monitoring | <input checked="" type="checkbox"/> | Communications |
| | Task Training | | Confined Spaces |
| <input checked="" type="checkbox"/> | OE Precautions | | Other: |

4. Remarks:

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TETRA TECH NUS, INC.

Project: 112G02267

Naval Air Station Cecil Field

Tailgate Safety Briefing

Date: 2-23-10

Location: CECIL FIELD

Time: 0700

Team #: _____

1. Reason for Briefing:

| | | | |
|-------------------------------------|-------------------------|--|----------------------------|
| <input checked="" type="checkbox"/> | Daily Safety Briefing | | New Site Procedure |
| <input type="checkbox"/> | Initial Safety Briefing | | New Site Information |
| <input type="checkbox"/> | New Task Briefing | | Review of Site Information |
| <input type="checkbox"/> | Periodic Safety Meeting | | Other: (Specify) |

2. Personnel Attending

| Name | Signature | Position |
|---------------|-----------|----------|
| Glen Childers | | SUXO |
| Mark Soha | | Tech III |
| Norm Piper | | Tech I |
| Frank Loney | | Tech I |

Briefing Given By:

| Name | Signature | Position |
|--------------|-----------|-----------|
| Frank Montes | | QC/Safety |



TETRA TECH NUS, INC.

3. Topics: (Check All That Apply)

| | | | |
|-------------------------------------|------------------------------------|-------------------------------------|---------------------------------------|
| <input checked="" type="checkbox"/> | Site Safety Personnel | <input checked="" type="checkbox"/> | Decontamination Procedures |
| <input checked="" type="checkbox"/> | Site/Work Area Description | <input type="checkbox"/> | Emergency Response/Equipment |
| <input checked="" type="checkbox"/> | Physical Hazards | <input checked="" type="checkbox"/> | On-Site Injuries/Illness |
| <input type="checkbox"/> | Chemical/Biological Hazards | <input checked="" type="checkbox"/> | Reporting Procedures |
| <input checked="" type="checkbox"/> | Heat/Cold Stress | <input checked="" type="checkbox"/> | Directions to Medical Facility |
| <input type="checkbox"/> | Work/Support Zones | <input type="checkbox"/> | Drug and Alcohol Policies |
| <input checked="" type="checkbox"/> | PPE | <input type="checkbox"/> | Medical Monitoring |
| <input checked="" type="checkbox"/> | Safe Work Practices | <input checked="" type="checkbox"/> | Evacuation/Egress Procedures |
| <input type="checkbox"/> | Air Monitoring | <input type="checkbox"/> | Communications |
| <input checked="" type="checkbox"/> | Task Training | <input type="checkbox"/> | Confined Spaces |
| <input checked="" type="checkbox"/> | OE Precautions | <input type="checkbox"/> | Other: |

4. Remarks:

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APPENDIX C-7

DAILY QUALITY CONTROL LOG

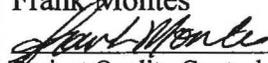


TETRA TECH NUS, INC.

| DAILY QUALITY CONTROL REPORT | | | |
|--|--|--|----------------------------|
| Contract Number: 112G02267 | | Project: Naval Air Station Cecil Field | |
| Report Number: | Location: Site 15 | Date: 4-27-2010 | |
| Phase | List Definable Features of Work, Locations, and List Personnel Present | | |
| Preparatory | Jeff Fournier, Glen Childers, Mark Soha, Steve Cassidy, Charles Everitt, Norman Piper, Frank Montes. The crew mobilizes, takes a tour of Site 15, and review the Work Plan in the morning. In the afternoon the crew has an initial Safety Brief. Medical Data Sheets are filled out, Certificates are filed away. For the remainder of the day, the crew disperses to town to acquire gear and tools to begin job. | | |
| Initial | | | Inspection Performed |
| | | | |
| Follow up | | | Inspection Performed |
| | | | |
| Rework Items Identified Today (Not Corrected by Close of Business) | | Rework Items Corrected Today | |
| None | | | |
| Remarks | | | |
| | | | |
| On behalf of the contractor, I certify that this report is complete and correct and the equipment and material used and work performed during this reporting period is in compliance with the contract drawings and specifications to the best of my knowledge except as noted in this report. | | Frank Montes <i>Frank Montes</i> Project Quality Control Officer | 4-27-2010 _____ Date |
| Client Quality Assurance | | | |
| Quality Assurance Representative Remarks and/or Exceptions to the Report | | | |
| _____ Client QA Representative | | | _____ Date |



TETRA TECH NUS, INC.

| DAILY QUALITY CONTROL REPORT | | | |
|--|--|---|----------------------|
| Contract Number: 12G02267 | | Project: Naval Air Station Cecil Field | |
| Report Number: | | Location: Site 15 | Date: 4-29-2010 |
| Phase | List Definable Features of Work, Locations, and List Personnel Present | | |
| Preparatory | | | |
| Initial | | | Inspection Performed |
| | | | |
| Follow up | Glen Childers, Mark Soha, Steve Cassidy, Charles Everitt, Norman Piper, Frank Montes. Staking corners of transects, plotting corners on GPS. Preparing Site 15 for brush cutting(using weed eaters) by identifying the transects to be swept. Staking the outer perimeter was finished, followed by beginning the staking of the inner perimeter | | Inspection Performed |
| | | | |
| Rework Items Identified Today (Not Corrected by Close of Business) | | Rework Items Corrected Today | |
| None | | | |
| Remarks | | | |
| The transects on the northern end of Site 15 are very overgrown and are difficult to work in. Similarly, any transect not in the center of the Site is difficult to work in with thick undergrowth and deep ground cover. | | | |
| On behalf of the contractor, I certify that this report is complete and correct and the equipment and material used and work performed during this reporting period is in compliance with the contract drawings and specifications to the best of my knowledge except as noted in this report. | | Frank Montes  Project Quality Control Officer | 4-29-2010 Date |
| Client Quality Assurance | | | |
| Quality Assurance Representative Remarks and/or Exceptions to the Report | | | |

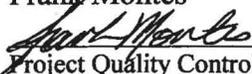


TETRA TECH NUS, INC.

| | |
|---------------------------------------|-------------------|
| <hr/> <p>Client QA Representative</p> | <hr/> <p>Date</p> |
|---------------------------------------|-------------------|



TETRA TECH NUS, INC.

| DAILY QUALITY CONTROL REPORT | | |
|--|---|---|
| Contract Number: 112G02267 | | Project: Naval Air Station Cecil Field |
| Report Number: | Location: Site 15 | Date: 4-30-2010 |
| Phase | List Definable Features of Work, Locations, and List Personnel Present | |
| Preparatory | | |
| Initial | Glen Childers, Mark Soha, Steve Cassidy, Charles Everitt, Norman Piper, Frank Montes. The crew begins brush cutting transects using weed eaters. This goes on the rest of the day. No discrepancies noted. | Inspection Performed |
| | | |
| Follow up | Staking of the inner transects is finished as is the collection of GPS Points. | Inspection Performed |
| | | |
| Rework Items Identified Today (Not Corrected by Close of Business) | | Rework Items Corrected Today |
| None | | |
| Remarks | | |
| | | |
| On behalf of the contractor, I certify that this report is complete and correct and the equipment and material used and work performed during this reporting period is in compliance with the contract drawings and specifications to the best of my knowledge except as noted in this report. | | Frank Montes  Project Quality Control Officer |
| | | 4-30-2010 Date |
| Client Quality Assurance | | |
| Quality Assurance Representative Remarks and/or Exceptions to the Report | | |
| | | |
| Client QA Representative | | Date |



TETRA TECH NUS, INC.

| DAILY QUALITY CONTROL REPORT | | | |
|--|--|--|---------------|
| Contract Number: 112G02267 | | Project: Naval Air Station Cecil Field | |
| Report Number: | Location: Site 15 | Date: 5-01-2010 | |
| Phase | List Definable Features of Work, Locations, and List Personnel Present | | |
| Preparatory | | | |
| Initial | Glen Childers, Mark Soha, Steve Cassidy, Charles Everitt, Norman Piper, Frank Montes. | Inspection Performed | |
| | The crew begins brush cutting transects using weed eaters. At 1330, one of the weed eaters fails and no replacement can be acquired 'til Monday. The crew use the remaining unit to its' fullest potential, by taking turns with it. | | |
| Follow up | Staking of the inner transects is finished as is the collection of GPS Points. | Inspection Performed | |
| | | | |
| Rework Items Identified Today (Not Corrected by Close of Business) | | Rework Items Corrected Today | |
| None | | | |
| Remarks | | | |
| As I observed the crew working, I noted no discrepancies. | | | |
| On behalf of the contractor, I certify that this report is complete and correct and the equipment and material used and work performed during this reporting period is in compliance with the contract drawings and specifications to the best of my knowledge except as noted in this report. | | Frank Montes | 5-01-2010 |
| | | <i>Frank Montes</i> Project Quality Control Officer | Date |
| Client Quality Assurance | | | |
| Quality Assurance Representative Remarks and/or Exceptions to the Report | | | |
| _____ Client QA Representative | | | _____ Date |



TETRA TECH NUS, INC.

| DAILY QUALITY CONTROL REPORT | | | |
|--|---|---|----------------------------|
| Contract Number: 112G02267 | | Project: Naval Air Station Cecil Field | |
| Report Number: | Location: Site 15 | Date: 5-02-2010 | |
| Phase | List Definable Features of Work, Locations, and List Personnel Present | | |
| Preparatory | | | |
| Initial | Glen Childers, Frank Loney, Steve Cassidy, Charles Everitt, Norman Piper, Frank Montes., | Inspection Performed | |
| | The crew begins storing transects in the GPS | | |
| Follow up | Brush cutting continues. Transect (1) is swept by Schoenstadt and a Whites' Detector. QC is conducted | Inspection Performed | |
| | The results are good. | | |
| Rework Items Identified Today (Not Corrected by Close of Business) | | Rework Items Corrected Today | |
| None | | | |
| Remarks | | | |
| <p>As I observed the crew working, I noted no discrepancies. Three items were seeded in Transect 1 and all three were found. The two Techs sweeping this transect were doing so in a very oppressive heat and they performed well.</p> <p>The brush cutting crew were likewise performing very well in spite of the weather and the lack of reliable a weed eater.</p> | | | |
| On behalf of the contractor, I certify that this report is complete and correct and the equipment and material used and work performed during this reporting period is in compliance with the contract drawings and specifications to the best of my knowledge except as noted in this report. | | Frank Montes  Project Quality Control Officer | 5-02-2010 _____ Date |
| Client Quality Assurance | | | |
| Quality Assurance Representative Remarks and/or Exceptions to the Report | | | |
| _____ Client QA Representative | | | _____ Date |



TETRA TECH NUS, INC.

| DAILY QUALITY CONTROL REPORT | | | |
|--|--|--|----------------------|
| Contract Number: 112G02267 | | Project: Naval Air Station Cecil Field | |
| Report Number: | | Location: Site 15 | Date: 5-03-2010 |
| Phase | List Definable Features of Work, Locations, and List Personnel Present | | |
| Preparatory | | | |
| Initial | | | Inspection Performed |
| | | | |
| Follow up | Glen Childers, Frank Loney, Steve Cassidy, Charles Everitt, Norman Piper, Frank Montes. Sweeping of transects is ongoing and brush cutting continues. Seeds are planted on Transect (J) 1-6. One seed was missed, they re-swept the area and found seed. | | Inspection Performed |
| | | | |
| Rework Items Identified Today (Not Corrected by Close of Business) | | Rework Items Corrected Today | |
| Transect J between sections 5 & 6 | | Transect J between sections 5 & 6 | |
| Remarks | | | |
| One seeded item was missed, on transect J between section 5&6. This section was re-swept and the seed was found the second time around. | | | |
| The brush cutting crew were performing very well in spite of the weather and the lack of reliable a weed eater, which broke down again at about 1500. | | | |
| On behalf of the contractor, I certify that this report is complete and correct and the equipment and material used and work performed during this reporting period is in compliance with the contract drawings and specifications to the best of my knowledge except as noted in this report. | | Frank Montes <i>Frank Montes</i> Project Quality Control Officer | 5-03-2010 Date |
| Client Quality Assurance | | | |
| Quality Assurance Representative Remarks and/or Exceptions to the Report | | | |
| _____ Client QA Representative | | | _____ Date |



TETRA TECH NUS, INC.

| DAILY QUALITY CONTROL REPORT | | |
|--|---|--|
| Contract Number:N62470-08-D-1001 | | Project: Naval Air Station Cecil Field Site 15 |
| Report Number: | Location: Site 15 | Date: 5-04-2010 |
| Phase | List Definable Features of Work, Locations, and List Personnel Present | |
| Preparatory | | |
| Initial | Glen Childers, Frank Loney, Steve Cassidy, Charles Everitt, Norman Piper, Frank Montes. Sweeping of transects is ongoing and brush cutting continues. Equipment is unreliable and continues to delay brush cutting. The crew switches back and forth between Sweeping, GPS Logging, and brush cutting. Progress is incremental. | Inspection Performed |
| | | |
| Follow up | | Inspection Performed |
| | | |
| Rework Items Identified Today (Not Corrected by Close of Business) | | Rework Items Corrected Today |
| none | | |
| Remarks | | |
| | | |
| On behalf of the contractor, I certify that this report is complete and correct and the equipment and material used and work performed during this reporting period is in compliance with the contract drawings and specifications to the best of my knowledge except as noted in this report. | | Frank Montes <i>Frank Montes</i> Project Quality Control Officer |
| | | 5-04-2010 Date |
| Client Quality Assurance | | |
| Quality Assurance Representative Remarks and/or Exceptions to the Report | | |
| | | |
| _____ Client QA Representative | | _____ Date |



TETRA TECH NUS, INC.

| DAILY QUALITY CONTROL REPORT | | |
|--|--|--|
| Contract Number: 112G02267 | | Project: Naval Air Station Cecil Field |
| Report Number: | Location: Site 15 | Date: 5-05-2010 |
| Phase | List Definable Features of Work, Locations, and List Personnel Present | |
| Preparatory | | |
| Initial | | Inspection Performed |
| | | |
| Follow up | Glen Childers, Frank Loney, Steve Cassidy, Charles Everitt, Norman Piper, Frank Montes. Brush cutting continues. Transects 1-10 are done, approx. half of the brush cutting is done. | Inspection Performed |
| | | |
| Rework Items Identified Today (Not Corrected by Close of Business) | | Rework Items Corrected Today |
| none | | |
| Remarks | | |
| | | |
| On behalf of the contractor, I certify that this report is complete and correct and the equipment and material used and work performed during this reporting period is in compliance with the contract drawings and specifications to the best of my knowledge except as noted in this report. | | Frank Montes <i>Frank Montes</i> Project Quality Control Officer |
| | | 5-05-2010 Date |
| Client Quality Assurance | | |
| Quality Assurance Representative Remarks and/or Exceptions to the Report | | |
| | | |
| Client QA Representative | | Date |



TETRA TECH NUS, INC.

| DAILY QUALITY CONTROL REPORT | | | |
|--|---|--|----------------------|
| Contract Number: 112G02267 | | Project: Naval Air Station Cecil Field | |
| Report Number: | | Location: Site 15 | Date: 5-06-2010 |
| Phase | List Definable Features of Work, Locations, and List Personnel Present | | |
| Preparatory | | | |
| Initial | | | Inspection Performed |
| | | | |
| Follow up | Glen Childers, Frank Loney, Steve Cassidy, Charles Everitt, Norman Piper, Frank Montes. The focus is on brush cutting the transects on the southern end from T-15 south. It's tough going but a simple job, it's being done safely, and as efficiently as possible. | | Inspection Performed |
| | | | |
| Rework Items Identified Today (Not Corrected by Close of Business) | | Rework Items Corrected Today | |
| none | | | |
| Remarks | | | |
| | | | |
| On behalf of the contractor, I certify that this report is complete and correct and the equipment and material used and work performed during this reporting period is in compliance with the contract drawings and specifications to the best of my knowledge except as noted in this report. | | Frank Montes <i>Frank Montes</i> Project Quality Control Officer | 5-06-2010 Date |
| Client Quality Assurance | | | |
| Quality Assurance Representative Remarks and/or Exceptions to the Report | | | |
| | | | |
| _____ Client QA Representative | | | _____ Date |



TETRA TECH NUS, INC.

| DAILY QUALITY CONTROL REPORT | | | |
|--|--|--|----------------------------|
| Contract Number: 112G02267 | | Project: Naval Air Station Cecil Field | |
| Report Number: | Location: Site 15 | Date: 5-10-2010 | |
| Phase | List Definable Features of Work, Locations, and List Personnel Present | | |
| Preparatory | | | |
| Initial | | | Inspection Performed |
| | | | |
| Follow up | Glen Childers, Frank Loney, Mark Soha, Norman Piper, Frank Montes. The focus is on brush cutting transects on the southern half of the site and logging transects on the north and western end of the brush cut transects. | | Inspection Performed |
| | | | |
| Rework Items Identified Today (Not Corrected by Close of Business) | | Rework Items Corrected Today | |
| none | | | |
| Remarks | | | |
| | | | |
| On behalf of the contractor, I certify that this report is complete and correct and the equipment and material used and work performed during this reporting period is in compliance with the contract drawings and specifications to the best of my knowledge except as noted in this report. | | Frank Montes <i>Frank Montes</i> Project Quality Control Officer | 5-10-2010 _____ Date |
| Client Quality Assurance | | | |
| Quality Assurance Representative Remarks and/or Exceptions to the Report | | | |
| | | | |
| _____ Client QA Representative | | | _____ Date |



TETRA TECH NUS, INC.

| DAILY QUALITY CONTROL REPORT | | | |
|--|--|--|----------------------|
| Contract Number: 112G02267 | | Project: Naval Air Station Cecil Field | |
| Report Number: | | Location: Site 15 | Date: 5-11-2010 |
| Phase | List Definable Features of Work, Locations, and List Personnel Present | | |
| Preparatory | | | |
| Initial | | | Inspection Performed |
| | | | |
| Follow up | Glen Childers, Frank Loney, Mark Soha, Norman Piper, Frank Montes. Sweeping begins on Transect A, B, four seed items were placed and located on transect A. The focus is on brush cutting transects on the southern half of the site. Two MEC items were located, deemed a non hazard and documented. | | Inspection Performed |
| | | | |
| Rework Items Identified Today (Not Corrected by Close of Business) | | Rework Items Corrected Today | |
| none | | | |
| Remarks | | | |
| | | | |
| On behalf of the contractor, I certify that this report is complete and correct and the equipment and material used and work performed during this reporting period is in compliance with the contract drawings and specifications to the best of my knowledge except as noted in this report. | | Frank Montes <i>Frank Montes</i> Project Quality Control Officer | 5-11-2010 Date |
| Client Quality Assurance | | | |
| Quality Assurance Representative Remarks and/or Exceptions to the Report | | | |
| | | | |
| _____ Client QA Representative | | | _____ Date |



TETRA TECH NUS, INC.

| DAILY QUALITY CONTROL REPORT | | |
|--|--|---|
| Contract Number: 112G02267 | | Project: Naval Air Station Cecil Field |
| Report Number: | Location: Site 15 | Date: 5-12-2010 |
| Phase | List Definable Features of Work, Locations, and List Personnel Present | |
| Preparatory | | |
| Initial | | Inspection Performed |
| | | |
| Follow up | Glen Childers, Frank Loney, Mark Soha, Norman Piper, Frank Montes. QC is performed on swept transects Transect 1:D-E-F-G-H-I Transect 2:C-D-E-I Transect 3: I Transect 4: H-I-J-K-L-M-N-O Transect 5:H-I-J-K-L-M-N-O- Transect 10: A Transect A:3-4-5-6-7-8-9 Transect B:3-4-5-6-7-9 Transect C: 2-3-4-5-6 Transect D: 1 Transect E: 1 Transect F: 1 Transect G: 1-4-5 Transect H: 1-4-5 Transect I: 1-3-4-5 Transect J: 1-2-3-4-5- Transect K: 4-5 Transect L: 4-5 Transect M: 4-5 Transect N: 4-5 Transect O: 4-5 | Inspection Performed |
| | | These transects were inspected with the aid of a Schoenstedt, there were no discrepancies noted on the 25% investigation of each individual transect. |
| Rework Items Identified Today (Not Corrected by Close of Business) | | Rework Items Corrected Today |
| none | | |
| Remarks | | |
| | | |



TETRA TECH NUS, INC.

| DAILY QUALITY CONTROL REPORT | | | |
|--|--|--|---|
| Contract Number: 112G02267 | | Project: Naval Air Station Cecil Field | |
| Report Number: | | Location: Site 15 | Date: 5-14-2010 |
| Phase | List Definable Features of Work, Locations, and List Personnel Present | | |
| Preparatory | | | |
| Initial | | | Inspection Performed |
| | | | |
| Follow up | Glen Childers, Frank Loney, Mark Soha, Norman Piper, Frank Montes. Sweeping Transects with the aid of a magnetometer: The crew begins sweeping the south end of the site they did so efficiently and methodically. No discrepancies were noted. | | Inspection Performed |
| | | | (2) Seeds were placed on Transect E at section 24 and all (2) were found. |
| Rework Items Identified Today (Not Corrected by Close of Business) | | Rework Items Corrected Today | |
| none | | | |
| Remarks | | | |
| | | | |
| On behalf of the contractor, I certify that this report is complete and correct and the equipment and material used and work performed during this reporting period is in compliance with the contract drawings and specifications to the best of my knowledge except as noted in this report. | | Frank Montes <i>Frank Montes</i> Project Quality Control Officer | 5-14-2010 Date |
| Client Quality Assurance | | | |
| Quality Assurance Representative Remarks and/or Exceptions to the Report | | | |
| | | | |
| _____ Client QA Representative | | | _____ Date |



TETRA TECH NUS, INC.

| DAILY QUALITY CONTROL REPORT | | |
|--|---|--|
| Contract Number: 112G02267 | | Project: Naval Air Station Cecil Field |
| Report Number: | Location: Site 15 | Date: 5-15-2010 |
| Phase | List Definable Features of Work, Locations, and List Personnel Present | |
| Preparatory | | |
| Initial | | Inspection Performed |
| | | |
| Follow up | Glen Childers, Frank Loney, Mark Soha, Norman Piper, Frank Montes. Sweeping Transects with the aid of a magnetometer: The crew begins sweeping the south end of the site they did so efficiently and methodically. No discrepancies were noted. | Inspection Performed |
| | The following transects were QC Checked: Transect: D-14-15-16-17-18-19 Transect: E-14-15-16-17-19-22-23 Transect: F-16-22-23 Transect: G-20-21-22-23 Transect: H-22-23 Transect: 15-D-E Transect: 16-D-E Transect: 17-D Transect: 18-D Transect: 19-D-G Transect: 20-G Transect: 21-F-G Transect: 22-E-F-G-H Transect: 23-E-F-G-H | (3) Seeds were placed on Transect 23 at J-K-Land all (3) were found. |
| Rework Items Identified Today (Not Corrected by Close of Business) | | Rework Items Corrected Today |
| none | | |
| Remarks | | |
| | | |



TETRA TECH NUS, INC.

On behalf of the contractor, I certify that this report is complete and correct and the equipment and material used and work performed during this reporting period is in compliance with the contract drawings and specifications to the best of my knowledge except as noted in this report.

Frank Montes

5-15-2010

Frank Montes

Project Quality Control Officer

Date

Client Quality Assurance

Quality Assurance Representative Remarks and/or Exceptions to the Report

Client QA Representative

Date



TETRA TECH NUS, INC.

| DAILY QUALITY CONTROL REPORT | | |
|--|--|---|
| Contract Number: N62470-08-D-1001 | | Project: Naval Air Station Cecil Field |
| Report Number: | Location: Site 15 | Date: 5-19-2010 |
| Phase | List Definable Features of Work, Locations, and List Personnel Present | |
| Preparatory | Staking out 10 transects with 5 stakes using tape measure | |
| Initial | Glen Childers, Frank Loney, Mark Soha, Norman Piper, Frank Montes. Brush cutting of new transects begins. Sweeping of these transects follows using a Schoenstadt and a White's All Metals Detector; | Inspection Performed |
| | | 2 seeds were placed on Transect K between sections 2 and 4. QC check of these new transects was performed, no discrepancies were noted |
| Follow up | | Inspection Performed |
| | | |
| Rework Items Identified Today (Not Corrected by Close of Business) | | Rework Items Corrected Today |
| none | | |
| Remarks | | |
| | | |
| On behalf of the contractor, I certify that this report is complete and correct and the equipment and material used and work performed during this reporting period is in compliance with the contract drawings and specifications to the best of my knowledge except as noted in this report. | Frank Montes | 5-19-2010 |
| | <i>Frank Montes</i> Project Quality Control Officer | _____ Date |
| Client Quality Assurance | | |
| Quality Assurance Representative Remarks and/or Exceptions to the Report | | |
| | | |
| _____ Client QA Representative | | _____ Date |



TETRA TECH NUS, INC.

| DAILY QUALITY CONTROL REPORT | | |
|--|---|---|
| Contract Number: 112G02267 | | Project: Naval Air Station Cecil Field |
| Report Number: | Location: Site 15 | Date: 5-20-2010 |
| Phase | List Definable Features of Work, Locations, and List Personnel Present | |
| Preparatory | | |
| Initial | Glen Childers, Frank Loney, Norman Piper, Frank Montes. | Inspection Performed |
| | Staking out 9 transects, Transects (20-21-22, N-O-P) with 5 stakes using tape measure. | |
| Follow up | Brush cutting of new transects begins. Sweeping of these transects follows using a Schonstedt and a White's All Metals Detector; These Transects were QC Checked: J: 16, 17, 22, 23, 24. K: 16, 17, 22. L: 16,17,18, 22 M: 16,17,18,19,20,21,22 N: 19,20 17: I, J, K, L, M 18: K, L, M. 19: L, M. 20: L,M,O 21: L, M. 22: L, M. 23: I, J. K. L. 24: I 25: I These Added Transects were also QC Checked: 20: P 21; O, P. 22: O, P. O: 20, 21. P: 20, 21. | Inspection Performed |
| | | 4 seeds were placed on Transect 22 between sections O and P, all four were found. QC check of these original and added-on transects was performed, no discrepancies were noted |
| Rework Items Identified Today (Not Corrected by Close of Business) | | Rework Items Corrected Today |
| none | | |
| Remarks | | |
| | | |



TETRA TECH NUS, INC.

On behalf of the contractor, I certify that this report is complete and correct and the equipment and material used and work performed during this reporting period is in compliance with the contract drawings and specifications to the best of my knowledge except as noted in this report.

Frank Montes

5-20-2010

Frank Montes

Project Quality Control Officer

Date

Client Quality Assurance

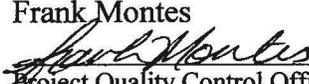
Quality Assurance Representative Remarks and/or Exceptions to the Report

Client QA Representative

Date



TETRA TECH NUS, INC.

| DAILY QUALITY CONTROL REPORT | | |
|--|---|--|
| Contract Number: 112G02267 | | Project: Naval Air Station Cecil Field |
| Report Number: | Location: Site 15 | Date: 5-21-2010 |
| Phase | List Definable Features of Work, Locations, and List Personnel Present | |
| Preparatory | | |
| Initial | | Inspection Performed |
| | | |
| Follow up | Glen Childers, Frank Loney, Norman Piper, Frank Montes. The crew lays out (6) stakes for 11 new transects using a tape measure at Transects 7,8,9, AA, BB, CC Brush cutting of new transects begins. Sweeping of these transects follows using a Schoenstadt and a White's All Metals Detector. QC check of these new transects was conducted. T7-AA T8-AA, BB T9-AA, BB, CC AA-7,8 BB-8,9 CC-9 | Inspection Performed |
| | | Accuracy of placement of new stakes was checked with a GPS unit. They were satisfactory. All work was done safely and efficiently. (3) seeds were placed on Transect AA at 7&8 No discrepancies noted. |
| Rework Items Identified Today (Not Corrected by Close of Business) | | Rework Items Corrected Today |
| none | | |
| Remarks | | |
| | | |
| On behalf of the contractor, I certify that this report is complete and correct and the equipment and material used and work performed during this reporting period is in compliance with the contract drawings and specifications to the best of my knowledge except as noted in this report. | | Frank Montes  Project Quality Control Officer |
| | | 5-21-2010 _____ Date |



TETRA TECH NUS, INC.

Client Quality Assurance

Quality Assurance Representative Remarks and/or Exceptions to the Report

Client QA Representative

Date



TETRA TECH NUS, INC.

| DAILY QUALITY CONTROL REPORT | | |
|--|--|---|
| Contract Number:112G02267 | | Project: Naval Air Station Cecil Field |
| Report Number: | Location: Site 15 | Date: 5-22-2010 |
| Phase | List Definable Features of Work, Locations, and List Personnel Present | |
| Preparatory | | |
| Initial | | Inspection Performed |
| | | |
| Follow up | <p>Glen Childers, Frank Loney, Norman Piper, Frank Montes. The crew lays out (7) stakes for 14 new transects using a GPS unit at Transects 2, 3 K,L,M and Transect C at 14,15,16. Brush cutting of new transects begins.</p> <p>Sweeping of these transects follows using a Schoenstadt and a White's All Metals Detector.QC check of these new transects was conducted. Results were satisfactory. TC-14,15,16 T15-C T16-C T17-C T2-K, L, M T3-M TK-2 TL-2 TM-2-3</p> | Inspection Performed |
| | | <p>Accuracy of placement of new stakes was checked with a GPS unit. They were satisfactory. All work was done safely and efficiently.</p> <p>(2) seeds were placed on Transect 17C, both were found. No discrepancies noted.</p> |
| Rework Items Identified Today (Not Corrected by Close of Business) | | Rework Items Corrected Today |
| none | | |
| Remarks | | |
| | | |



TETRA TECH NUS, INC.

On behalf of the contractor, I certify that this report is complete and correct and the equipment and material used and work performed during this reporting period is in compliance with the contract drawings and specifications to the best of my knowledge except as noted in this report.

Frank Montes

5-22-2010

Project Quality Control Officer

Date

Client Quality Assurance

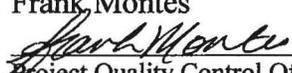
Quality Assurance Representative Remarks and/or Exceptions to the Report

Client QA Representative

Date



TETRA TECH NUS, INC.

| DAILY QUALITY CONTROL REPORT | | | |
|--|---|---|---|
| Contract Number: 112G02267 | | Project: Naval Air Station Cecil Field | |
| Report Number: | Location: Site 15 | Date: 5-23-2010 | |
| Phase | List Definable Features of Work, Locations, and List Personnel Present | | |
| Preparatory | | | |
| Initial | | | Inspection Performed |
| Follow up | Glen Childers, Frank Loney, Mark Soha, Norman Piper, Frank Montes. Transect J: 1 Transect K: 1,2,3 Transect L: 3 Transect 1: J Transect 2: J Transect 3: J, K, L <hr/> Site clean-up and final walk through, the crew picks up stakes, trash, ribbon, attempts to leave site as we found it. | | Inspection Performed These transects were inspected with the aid of a Schoenstadt, there were no discrepancies noted on the 25% investigation of each individual transect. See remarks* <hr/> Clean up of site is satisfactory. |
| Rework Items Identified Today (Not Corrected by Close of Business) | | Rework Items Corrected Today | |
| none | | | |
| *Remarks: These transects were inspected on 5-12-10 and were omitted from that days' report. | | | |
| | | | |
| On behalf of the contractor, I certify that this report is complete and correct and the equipment and material used and work performed during this reporting period is in compliance with the contract drawings and specifications to the best of my knowledge except as noted in this report. | | Frank Montes  Project Quality Control Officer | |
| | | 5-23-2010 Date | |
| Client Quality Assurance | | | |
| Quality Assurance Representative Remarks and/or Exceptions to the Report | | | |



TETRA TECH NUS, INC.

Client QA Representative

Date

APPENDIX C-8

QUALITY CONTROL SURVEILLANCE LOG



TETRA TECH NUS, INC.

| | | |
|---|--|--|
| QUALITY CONTROL SURVEILLANCE REPORT | | Report Number:04272010 |
| Project Name: Naval Air Station Cecil Field Site 15 | | Contract No: 112G02267 |
| Client: Navy | | Project Manager: klink/Simcik |
| 1 - Activity | | |
| <input type="checkbox"/> Project Management | <input type="checkbox"/> Geophysical Data Collection | <input checked="" type="checkbox"/> Data Management |
| <input type="checkbox"/> Intrusive Investigation | <input type="checkbox"/> Geophysical Data Processing | <input type="checkbox"/> Demolition |
| <input checked="" type="checkbox"/> Surface Sweep | <input type="checkbox"/> Anomaly Reacquisition | <input checked="" type="checkbox"/> Transect Activity |
| <input type="checkbox"/> Survey | <input type="checkbox"/> Other: | <input checked="" type="checkbox"/> Brush Cutting/Clearing |
| | | <input checked="" type="checkbox"/> UXO Avoidance |
| | | <input type="checkbox"/> Scrap Processing |
| 2 - Phase | | |
| <input checked="" type="checkbox"/> Preparatory | <input type="checkbox"/> Initial | <input type="checkbox"/> Follow up |
| 3 - References | | |
| 4 - Observed Condition/Activities and Comments: | | |
| Jeff Fournier, Glen Childers, Mark Soha, Steve Cassidy, Charles Everitt, Norman Piper, Frank Montes. <p>The crew mobilizes, takes a tour of Site 15, and review the Work Plan in the morning.</p> <p>In the afternoon the crew has an initial Safety Brief. Medical Data Sheets are filled out, Certificates are filed away. For the remainder of the day, the crew disperses to town to acquire gear and tools to begin job.</p> | | |
| 5 - Results of Surveillance | | |
| <input checked="" type="checkbox"/> Acceptable | <input type="checkbox"/> Unacceptable | Deficiency #: NCR #: |
| Conducted By: Fournier/Childers/Montes | Signature: Frank Montes <i>Frank Montes</i> | Date: 4/27/2010 |
| 6 - Project Manager Review | | |
| <input type="checkbox"/> Concur <input type="checkbox"/> Non-Concur | Signature: | Date |
| 7 - Distribution | | |
| <input type="checkbox"/> PM <input type="checkbox"/> FOL <input type="checkbox"/> SUXOS <input type="checkbox"/> UXO Manager <input type="checkbox"/> Safety <input type="checkbox"/> Other: | | |



TETRA TECH NUS, INC.

| | | |
|---|--|---|
| QUALITY CONTROL SURVEILLANCE REPORT | | Report Number: 04282010 |
| Project Name: Naval Air Station Cecil Field Site 15 | | Contract No: 112G02267 |
| Client: Navy | | Project Manager: klink/Simcik |
| 1 - Activity | | |
| <input type="checkbox"/> Project Management | <input type="checkbox"/> Geophysical Data Collection | <input checked="" type="checkbox"/> Data Management |
| <input type="checkbox"/> Intrusive Investigation | <input type="checkbox"/> Geophysical Data Processing | <input type="checkbox"/> Demolition |
| <input type="checkbox"/> Surface Sweep | <input type="checkbox"/> Anomaly Reacquisition | <input checked="" type="checkbox"/> Transect Activity |
| <input type="checkbox"/> Survey | <input type="checkbox"/> Other: | <input type="checkbox"/> Brush Cutting/Clearing |
| | | <input checked="" type="checkbox"/> UXO Avoidance |
| | | <input type="checkbox"/> Scrap Processing |
| 2 - Phase | | |
| <input type="checkbox"/> Preparatory | <input checked="" type="checkbox"/> Initial | <input type="checkbox"/> Follow up |
| 3 - References | | |
| 4 - Observed Condition/Activities and Comments: | | |
| Jeff Fournier, Glen Childers, Mark Soha, Steve Cassidy, Charles Everitt, Norman Piper, Frank Montes. | | |
| The crew starts job by staking transects and collecting the corners in a GPS unit. The outer perimeter is started first. Once this is done, staking the inner portions of the transects will begin. | | |
| (3) Propellant containers were found (2) MDAS and (1) MPPEH just on the outside of the perimeter between stakes 21N and 22N. | | |
| 5 - Results of Surveillance | | |
| <input checked="" type="checkbox"/> Acceptable | <input type="checkbox"/> Unacceptable | Deficiency #: NCR #: |
| Conducted By: Montes | Signature: Frank Montes <i>Frank Montes</i> | Date: 4/28/2010 |
| 6 - Project Manager Review | | |
| <input type="checkbox"/> Concur <input type="checkbox"/> Non-Concur | Signature: | Date |
| 7 - Distribution | | |
| <input type="checkbox"/> PM <input type="checkbox"/> FOL <input type="checkbox"/> SUXOS <input type="checkbox"/> UXO Manager <input type="checkbox"/> Safety <input type="checkbox"/> Other: | | |



TETRA TECH NUS, INC.

| | | |
|---|--|---|
| QUALITY CONTROL SURVEILLANCE REPORT | | Report Number:04292010 |
| Project Name: Naval Air Station Cecil Field Site 15 | | Contract No: 112G02267 |
| Client: Navy | | Project Manager: klink/Simcik |
| 1 - Activity | | |
| <input type="checkbox"/> Project Management | <input type="checkbox"/> Geophysical Data Collection | <input checked="" type="checkbox"/> Data Management |
| <input type="checkbox"/> Intrusive Investigation | <input type="checkbox"/> Geophysical Data Processing | <input type="checkbox"/> Demolition |
| <input type="checkbox"/> Surface Sweep | <input type="checkbox"/> Anomaly Reacquisition | <input checked="" type="checkbox"/> Transect Activity |
| <input type="checkbox"/> Survey | <input type="checkbox"/> Other: | <input type="checkbox"/> Brush Cutting/Clearing |
| | | <input checked="" type="checkbox"/> UXO Avoidance |
| | | <input type="checkbox"/> Scrap Processing |
| 2 - Phase | | |
| <input type="checkbox"/> Preparatory | <input type="checkbox"/> Initial | <input checked="" type="checkbox"/> Follow up |
| 3 - References | | |
| 4 - Observed Condition/Activities and Comments: | | |
| Jeff Fournier, Glen Childers, Mark Soha, Steve Cassidy, Charles Everitt, Norman Piper, Frank Montes. | | |
| Staking corners of transects, plotting corners on GPS. Preparing Site 15 for brush cutting(using weed eaters) by identifying the transects to be swept. Staking the outer perimeter was finished, followed by beginning the staking of the inner perimeter | | |
| 5 - Results of Surveillance | | |
| <input checked="" type="checkbox"/> Acceptable | <input type="checkbox"/> Unacceptable | Deficiency #: NCR #: |
| Conducted By: Montes | Signature: Frank Montes <i>Frank Montes</i> | Date: 4/29/2010 |
| 6 - Project Manager Review | | |
| <input type="checkbox"/> Concur <input type="checkbox"/> Non-Concur | Signature: | Date |
| 7 - Distribution | | |
| <input type="checkbox"/> PM <input type="checkbox"/> FOL <input type="checkbox"/> SUXOS <input type="checkbox"/> UXO Manager <input type="checkbox"/> Safety <input type="checkbox"/> Other: | | |



TETRA TECH NUS, INC.

| | | | |
|--|--|--|--|
| QUALITY CONTROL SURVEILLANCE REPORT | | Report Number:05012010 | |
| Project Name: Naval Air Station Cecil Field Site 15 | | Contract No: 112G02267 | |
| Client: Navy | | Project Manager: klink/Simcik | |
| 1 - Activity | | | |
| <input type="checkbox"/> Project Management | <input type="checkbox"/> Geophysical Data Collection | <input type="checkbox"/> Data Management | <input checked="" type="checkbox"/> Brush Cutting/Clearing |
| <input type="checkbox"/> Intrusive Investigation | <input type="checkbox"/> Geophysical Data Processing | <input type="checkbox"/> Demolition | <input type="checkbox"/> UXO Avoidance |
| <input type="checkbox"/> Surface Sweep | <input type="checkbox"/> Anomaly Reacquisition | <input type="checkbox"/> Transect Activity | <input type="checkbox"/> Scrap Processing |
| <input type="checkbox"/> Survey | <input type="checkbox"/> Other: | | |
| 2 - Phase | | | |
| <input type="checkbox"/> Preparatory | <input checked="" type="checkbox"/> Initial | <input type="checkbox"/> Follow up | |
| 3 - References | | | |
| 4 - Observed Condition/Activities and Comments: | | | |
| Glen Childers, Mark Soha, Steve Cassidy, Charles Everitt, Norman Piper, Frank Montes. | | | |
| The crew begins brush cutting transects using weed eaters. This goes on the rest of the day. No discrepancies noted. | | | |
| 5 - Results of Surveillance | | | |
| <input checked="" type="checkbox"/> Acceptable | <input type="checkbox"/> Unacceptable | Deficiency #: NCR #: | |
| Conducted By: Montes | Signature: Frank Montes <i>Frank Montes</i> | Date: 5/11/2010 | |
| 6 - Project Manager Review | | | |
| <input type="checkbox"/> Concur <input type="checkbox"/> Non-Concur | Signature: | Date | |
| 7 - Distribution | | | |
| <input type="checkbox"/> PM <input type="checkbox"/> FOL <input type="checkbox"/> SUXOS <input type="checkbox"/> UXO Manager <input type="checkbox"/> Safety <input type="checkbox"/> Other: | | | |

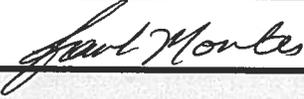


TETRA TECH NUS, INC.

| | | |
|--|--|---|
| QUALITY CONTROL SURVEILLANCE REPORT | | Report Number:05022010 |
| Project Name: Naval Air Station Cecil Field Site 15 | | Contract No: 112G02267 |
| Client: Navy | | Project Manager: Klink/Simcik |
| 1 - Activity | | |
| <input type="checkbox"/> Project Management | <input type="checkbox"/> Geophysical Data Collection | <input type="checkbox"/> Data Management |
| <input type="checkbox"/> Intrusive Investigation | <input type="checkbox"/> Geophysical Data Processing | <input type="checkbox"/> Demolition |
| <input checked="" type="checkbox"/> Surface Sweep | <input type="checkbox"/> Anomaly Reacquisition | <input type="checkbox"/> Transect Activity |
| <input type="checkbox"/> Survey | <input type="checkbox"/> Other: | <input type="checkbox"/> Brush Cutting/Clearing |
| | | <input type="checkbox"/> UXO Avoidance |
| | | <input type="checkbox"/> Scrap Processing |
| 2 - Phase | | |
| <input type="checkbox"/> Preparatory | <input type="checkbox"/> Initial | <input checked="" type="checkbox"/> Follow up |
| 3 - References | | |
| 4 - Observed Condition/Activities and Comments: | | |
| Glen Childers, Steve Cassidy, Charles Everitt, Norman Piper, Frank Montes, Frank Loney. | | |
| Three items were seeded in Transect 1 and all three were found. No discrepancies noted. | | |
| 5 - Results of Surveillance | | |
| <input checked="" type="checkbox"/> Acceptable | <input type="checkbox"/> Unacceptable | Deficiency #: NCR #: |
| Conducted By: Montes | Signature: Frank Montes <i>Frank Montes</i> | Date: 5/2/2010 |
| 6 - Project Manager Review | | |
| <input type="checkbox"/> Concur <input type="checkbox"/> Non-Concur | Signature: | Date: |
| 7 - Distribution | | |
| <input type="checkbox"/> PM <input type="checkbox"/> FOL <input type="checkbox"/> SUXOS <input type="checkbox"/> UXO Manager <input type="checkbox"/> Safety <input type="checkbox"/> Other: | | |

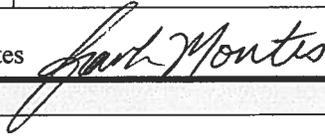


TETRA TECH NUS, INC.

| | | | |
|--|--|--|--|
| QUALITY CONTROL SURVEILLANCE REPORT | | Report Number:05112010 | |
| Project Name: Naval Air Station Cecil Field Site 15 | | Contract No: 112G02267 | |
| Client: Navy | | Project Manager: | |
| 1 - Activity | | | |
| <input type="checkbox"/> Project Management | <input type="checkbox"/> Geophysical Data Collection | <input type="checkbox"/> Data Management | <input checked="" type="checkbox"/> Brush Cutting/Clearing |
| <input type="checkbox"/> Intrusive Investigation | <input type="checkbox"/> Geophysical Data Processing | <input type="checkbox"/> Demolition | <input type="checkbox"/> UXO Avoidance |
| <input checked="" type="checkbox"/> Surface Sweep | <input type="checkbox"/> Anomaly Reacquisition | <input type="checkbox"/> Transect Activity | <input type="checkbox"/> Scrap Processing |
| <input type="checkbox"/> Survey | <input type="checkbox"/> Other: | | |
| 2 - Phase | | | |
| <input checked="" type="checkbox"/> Preparatory | <input checked="" type="checkbox"/> Initial | <input type="checkbox"/> Follow up | |
| 3 - References | | | |
| 4 - Observed Condition/Activities and Comments: | | | |
| Glen Childers, Steve Cassidy, Charles Everitt, Norman Piper, Frank Montes, Frank Loney. | | | |
| Preparatory-Laid out 10 new transects and 5 new stakes using a measuring tape. | | | |
| Initial-The crew brush cuts 10 new transects, swept these transects using a Schoenstadt and a White's All Metals Detector. Found (2) planted seeds on transect (K) between section 2 and 4. | | | |
| QC check was performed on these transects, no discrepancies were noted. | | | |
| 5 - Results of Surveillance | | | |
| <input checked="" type="checkbox"/> Acceptable | <input type="checkbox"/> Unacceptable | Deficiency #: NCR #: | |
| Conducted By: Montes | Signature: Frank Montes |  | Date: 5/19/2010 |
| 6 - Project Manager Review | | | |
| <input type="checkbox"/> Concur | <input type="checkbox"/> Non-Concur | Signature: | Date |
| 7 - Distribution | | | |
| <input type="checkbox"/> PM <input type="checkbox"/> FOL <input type="checkbox"/> SUXOS <input type="checkbox"/> UXO Manager <input type="checkbox"/> Safety <input type="checkbox"/> Other: | | | |



TETRA TECH NUS, INC.

| | | |
|---|---|--|
| QUALITY CONTROL SURVEILLANCE REPORT | | Report Number:05202010 |
| Project Name: Naval Air Station Cecil Field Site 15 | | Contract No: 112G02267 |
| Client: Navy | | Project Manager: |
| 1 - Activity | | |
| <input type="checkbox"/> Project Management | <input type="checkbox"/> Geophysical Data Collection | <input type="checkbox"/> Data Management |
| <input type="checkbox"/> Intrusive Investigation | <input type="checkbox"/> Geophysical Data Processing | <input type="checkbox"/> Demolition |
| <input checked="" type="checkbox"/> Surface Sweep | <input type="checkbox"/> Anomaly Reacquisition | <input type="checkbox"/> Transect Activity |
| <input type="checkbox"/> Survey | <input type="checkbox"/> Other: | <input checked="" type="checkbox"/> Brush Cutting/Clearing |
| | | <input type="checkbox"/> UXO Avoidance |
| | | <input type="checkbox"/> Scrap Processing |
| 2 - Phase | | |
| Preparatory | Initial | <input checked="" type="checkbox"/> Follow up |
| 3 - References | | |
| 4 - Observed Condition/Activities and Comments: | | |
| Glen Childers, Frank Montes, Norm Piper, Frank Loney | | |
| New stakes (6) were placed at the eastern end of the 20 & 21 , O & P transects, brush cutting was performed on (9) new transects with the aid of a tape measure followed by a detector aided surface sweep. | | |
| These new transects were logged on the GPS as well as the position of the new stakes. | | |
| (4) seeds were placed on transect N & O at Transect 22, all four were found. | | |
| 5 - Results of Surveillance | | |
| <input checked="" type="checkbox"/> Acceptable | <input type="checkbox"/> Unacceptable | Deficiency #: NCR #: |
| Conducted By: Montes | Signature: Frank Montes  | Date: 5/20/2010 |
| 6 - Project Manager Review | | |
| <input type="checkbox"/> Concur <input type="checkbox"/> Non-Concur | Signature: | Date |
| 7 - Distribution | | |
| <input type="checkbox"/> PM <input type="checkbox"/> FOL <input type="checkbox"/> SUXOS <input type="checkbox"/> UXO Manager <input type="checkbox"/> Safety <input type="checkbox"/> Other: | | |

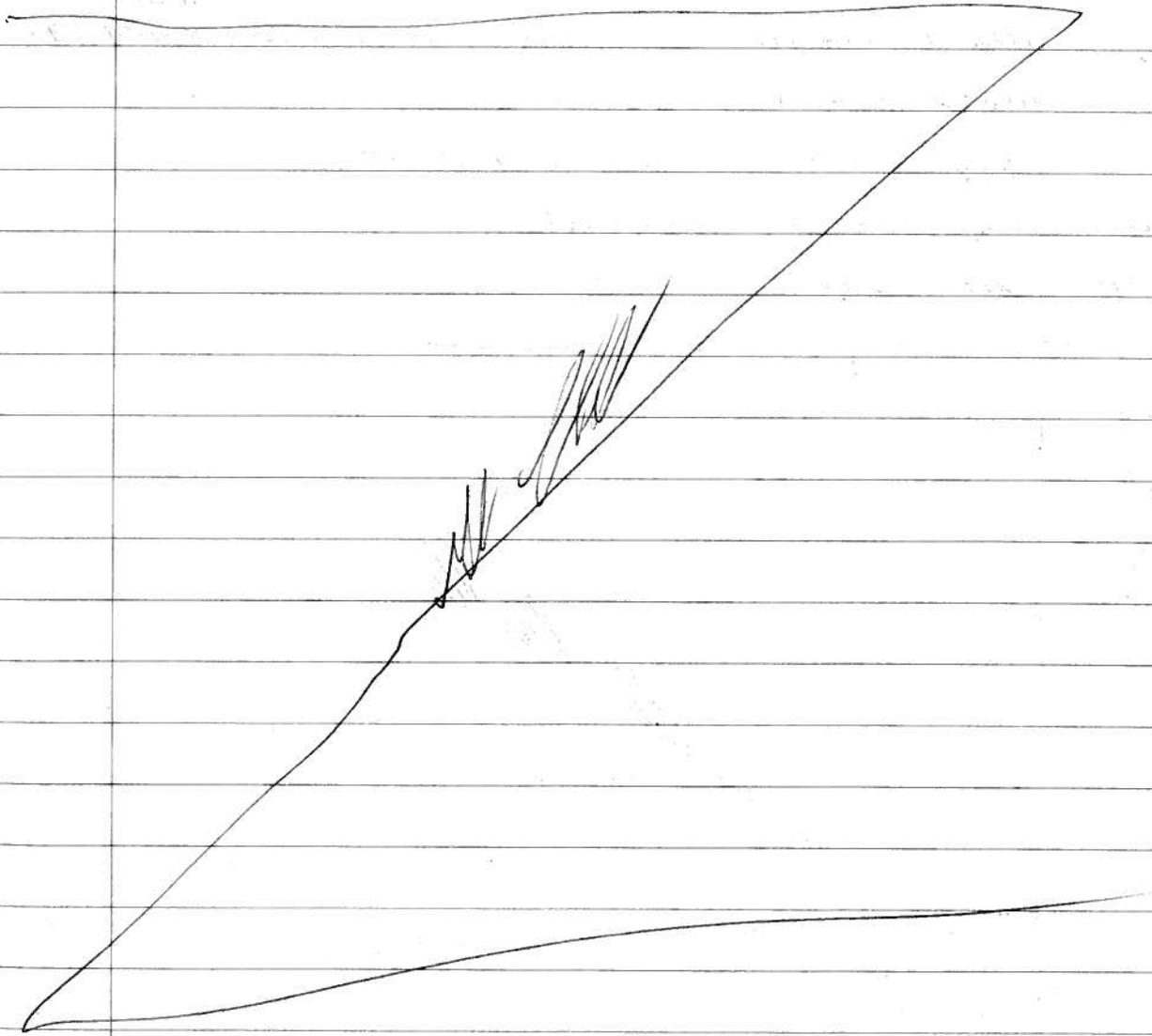
APPENDIX C-9

SUXOS FIELD LOGBOOK

①

4/27/10

- 0800 ALL PERSONNEL PRESENT, INITIAL BRIEFING
- 0830 SITE TOUR
- 1000 WORK PLAN REVIEW
- 1200 LUNCH
- 1230 HEALTH AND SAFETY PLAN REVIEW
- 1430 GET SUPPLIES AND EQUIPMENT FOR JOB
- 1700 END OF DAY



②

4/28/10

0700 SAFETY BRIEFING

0715 DEPART TO PICK UP RENTAL EQUIPMENT

0815 ON SITE, START STAKE OUT OF TRAVERSE

1230 LUNCH

1300 CONTINUE STAKE OUT

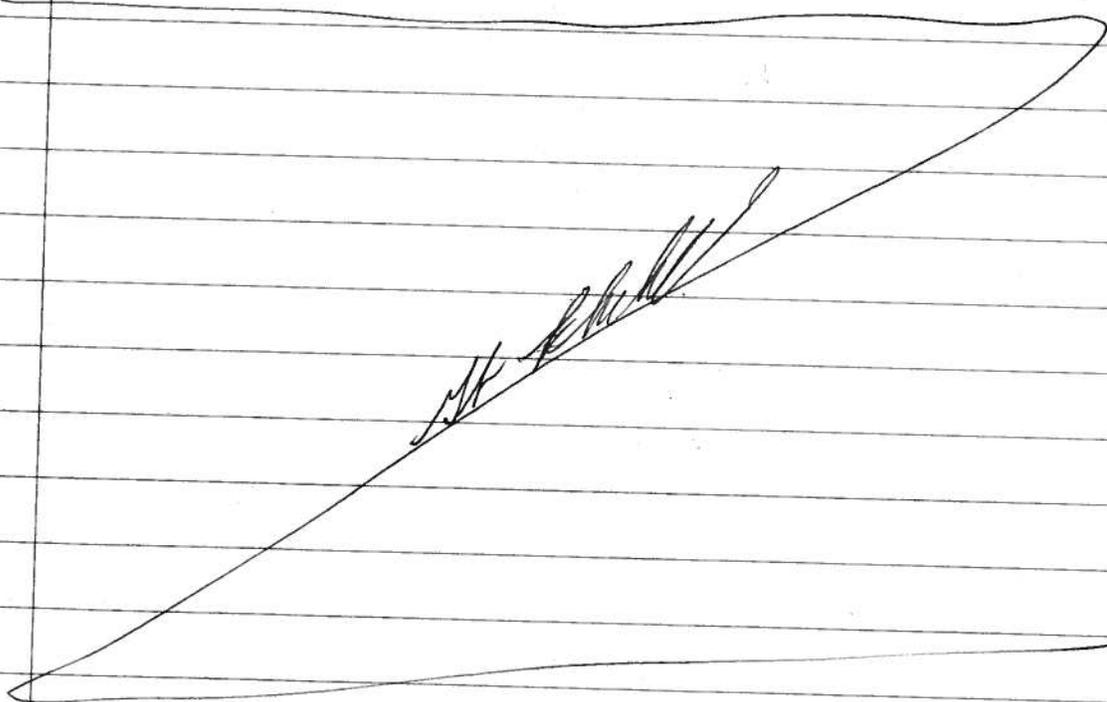
1430 3 EA. ITEMS FOUND LOCATED OUTSIDE AREA BOUNDARY
BETWEEN END STAKES 2 IN AND 22 N

ITEM #1 1 EA PROPELLANT CANNISTER MDAS COORDINATES N 2147746.25
E 365412.93

ITEM #2 2 EA PROPELLANT CANNISTERS 1 EA MDAS 1 EA MPPRH
COORDINATES N 2147752.62 E 365408.05

1630 STOP WORK LOAD EQUIPMENT

1700 DEPART SITE



4/29/10

47° WINDS 10-15 OUT OF WEST, CLEAR, HIGH 77

0700 SAFETY BRIEFING, ALL PERSONNEL PRESENT

0715 DEPART FOR SITE

0730 ON SITE, CHECK OUT GPS UNITS

0800 CONTINUE STAKING PERIMETER AND TRANSECTS

1000 PERIMETER MARKING COMPLETE, STAKE OUT TRANSECTS

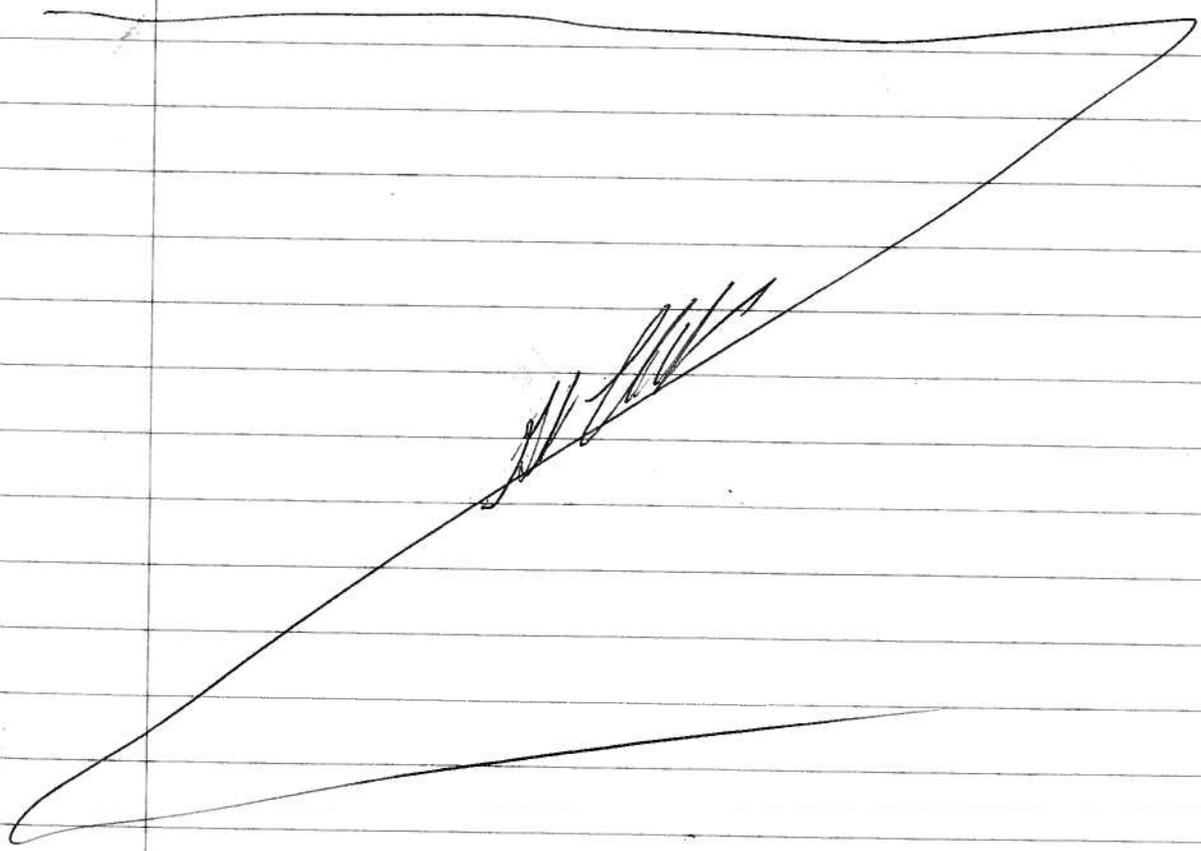
1200 LUNCH

1230 CONTINUE STAKING TRANSECTS

1630 STOP WORK LOAD EQUIPMENT

1645 GO TO STORAGE UNIT AND UNLOAD EQUIPMENT

1700 DEPART



C
T
I
V
I
T
Y

(4)

4/30/10

- 65°, CLEAR, WINDS W @ 10-15 MPH HIGH 95
- 0700 SAFETY BRIEFING
- 0715 PICK UP EQUIPMENT AT STORAGE UNIT
- 1730 ON SITE, START BRUSH CUTTING TRANSECTS AND CONTINUE MARKING TRANSECTS
- 1200 LUNCH
- 1730 CONTINUE MARKING AND CUTTING TRANSECTS
- 1630 STOP WORK, TAKE EQUIPMENT TO STORAGE SHED
- 1645 UNLOAD EQUIPMENT
- 1700 DEPART

STEVE CASSIDY REPORTED AN IMBEDDED TICK ON HIS CHEST

SP [Signature]

5

5/1/10

68°, CALM, PARTLY CLOUDY, HIGH 89°, 20% CHANCE OF
AFTERNOON THUNDER STORMS

- 0700 SAFETY BRIEFING,
- 0715 PICK UP EQUIPMENT
- 0730 ON SITE, CHECK OUT GPS, CONTINUE STAKING TRANSECTS
AND BRUSH CUTTING
- 0830 MARKING OF TRANSECTS COMPLETE, SECOND TEAM START
BRUSH CUTTING
- 1000 MARK SONA DEPARTED SITE
- 1200 LUNCH
- 1230 RESUME BRUSH CUTTING
- 1330 WEATHER BROKE, UNABLE TO CALL SUNBELT, CIRCUITS BUSY,
TANK WERE ENTERED TO SUNBELT, THEY WERE CLOSED
- 1630 STOP WORK, TAKE EQUIPMENT TO STORAGE SHED
- 1700 DEPART

AK

(6)

5/2/10

- 0900 SAFETY BRIEFING. WEATHER 72°, PARTLY CLOUDY, WINDS
@ 5-10 MPH, HIGH 93°
- 0915 PICK UP EQUIPMENT
- 0930 ON SITE, ONE TEAM BRUSH CUTTING, ONE TEAM
TO GPS TRAPSECTS THAT HAVE BEEN BRUSH CUT
- 1200 LUNCH
- 1230 CONTINUE BRUSH CUTTING, SECOND TEAM START SEARCHING
SWEEP OF TRAPSECTS. SCHEDULED CHECK OUT COMPLETED
WHITE CHECKOUT COMPLETED, QC PLANTED SEED ITEMS
IN AREA TO BE SWEPT
- 1530 TRANSECT T1 COMPLETE, 9 ANIMALS, MEDIUM DENSITY.
ALL SEED ITEMS WERE LOCATED BRUSH CUTTING 80% COMPLETE
- 1615 STOP WORK CHECK GPS
- 1630 LOAD EQUIPMENT AND GO TO STORAGE SHED
- 1700 END OF DAY

AK [Signature]

(1)

5/3/10

- 0700 SAFETY BRIEFING, 72°, PARTLY CLOUDY, WINDS S @ 10-20 MPH, HIGH 94°
- 0715 PICK UP EQUIPMENT
- 0730 ON SITE, CHECK OUT GPS AND SCIONSTEDTS
CONTINUE BRUSH CUTTING, BROKEN WEED EATER TAKEN
BACK TO SUNBELT RENTAL, THEY DON'T HAVE ANYMORE BUT ARE
LOOKING FOR SOME
- 1030 THE SECOND ^{WEED EATER} ~~SCIONSTEDTS~~ BROKE DOWN - TAKING IT BACK, THEY
SAID THEY COULD FIX IT. BOTH TEAMS TO SWEEP TRANSECTS
QC PLACED SEED ITEMS IN AREA TO BE SWEEP TODAY
- 1100 QC REPORTED SWEEP TEAM MISSED THE SEED ITEMS, TEAM
SENT BACK TO RESWEEP THAT TRANSECT
(MPPEH)
- 1145 A SLAP FLARE CASING WAS FOUND ON TRANSECT J-3
COORDINATES N 2149369.30 E 365001.1 ID. 5/3/10 J-3 ITEM 3
- 1200 SWEEP TEAM COMPLETED RE DOING TRANSECT J, ALL
SEED ITEMS FOUND.
- 1215 LUNCH
- 1245 ONE TEAM BRUSH CUTTING, ONE SWEEPING TRANSECTS
- 1430 A SLAP FLARE CASING ^(MPPEH) WAS FOUND ON TRANSECT 5-I
COORDINATE N 2149402.86 E 364973.56 ID 75-I, ITEM 3
- 1545 WEED EATER BROKE AGAIN, CALLED SUNBELT, TAKING IT IN
TEAM SWEEPING TRANSECTS
- 1615 STOP WORK, GPS CHECK, LOAD EQUIPMENT
- 1630 GO TO STORAGE SHED
- 1700 STOP WORK

(8)

5/3/CONT

| TRANSECT | # ANOMALIES | TRANSECT | # ANOM. |
|----------|-------------|----------|---------|
| 2-I | 3 | P-4 | 0 |
| 3-I | 10 | | |
| 4-H | 30 | | |
| 4-I | 16 | | |
| 4-J | 5 | | |
| 4-K | 10 | | |
| 4-L | 9 | | |
| 4-M | 4 | | |
| 4-N | 2 | | |
| 4-O | 1 | | |
| 5-F | 23 | | |
| 5-L | 5 | | |
| 5-M | 2 | | |
| 5-N | 1 | | |
| 5-O | 1 | | |
| G-5 | 28 | | |
| I-3 | 11 | | |
| I-4 | 23 | | |
| I-5 | 25 | | |
| J-2 | 8 | | |
| J-3 | 4 | | |
| J-4 | 15 | | |
| J-5 | 27 | | |

MOST OF THE ANOMALIES
ARE NON FERRUS AND
FOUND WITH THE WHITE

5/4/10

(9)

- 74°, PARTLY CLOUDY, WINDS-CALM, HIGH 84, 80% CHANCE OF RAIN
- 0700 SAFETY BRIEFING
- 0715 LOAD EQUIPMENT
- 0730 ON SITE, CHECK OUT GPS, SUNDOLTS, AND WHITE. BOTH TEAMS SWEEPING TRANSECTS
- 0800 SUBJECT CALLED, WEED EATER READY. GO TO PICK UP WEED EATERS AT SUNBELT AND UNITED
- 0930 WEED EATERS ON SITE, BOTH TEAMS CUTTING BRUSH
- 1200 LUNCH
- 1230 CONTINUE BRUSH CUTTING
- 1315 WEED EATER BROKE DOWN - TEAM GPS TRANSECTS
- 1400 ROB SIMON (TTNUS), MARK SONNET (TTNUS), AND ART SANFORD (BRAC SE) ON SITE, VISITORS BRIEFED ON SAFETY AND WORK.
- 1430 VISITORS LEFT, CALLED UNITED RENTALS ABOUT WEED EATER AND TAKING IT IN.
- 1625 GPS CHECK, LOAD EQUIPMENT
- 1640 GO TO STORAGE SHED
- 1700 END OF DAY
- APPROXIMATELY 45% OF BRUSH CUTTING COMPLETED



CL

(10)

Time

Mon

Tue

Wed

Thu

Fri

Sat

5/5/10

71°, MOSTLY CLOUDY, WINDS CALM, HIGH 84°, 30% CHANCE
OF RAIN

0700

SAFETY BRIEFING

0715

LOAD EQUIPMENT

0740

ON SITE, GPS CHECK, ONE TEAM BRUSH CUTTING
ONE TEAM SWEEPING TRANSECTS

1000

SECOND WOODPATER BACK ON SITE, BOTH TEAMS
CLEARING BRUSH

1200

LUNCH

1230

RESUME BRUSH CUTTING

1410

LINDA KLINK (TTADS) ON SITE, SAFETY BRIEFING,
BRIEFED MY KLINK ON WORK PROGRESS

1500

LINDA KLINK OFF SITE

1615

CHECK GPS

1630

LOAD EQUIPMENT

1645

GO TO STORAGE SHED

1700

END OF DAY

TRANSECTS SWEEP TODAY?

TRANSECT ANIMALIES

5G

22

5H

29

5I

21

5-J

18

5K

9

TRANSECT ANIMALIES

94

20

~~15~~~~15~~ 10H 5H^{AVE}

24

K4

19

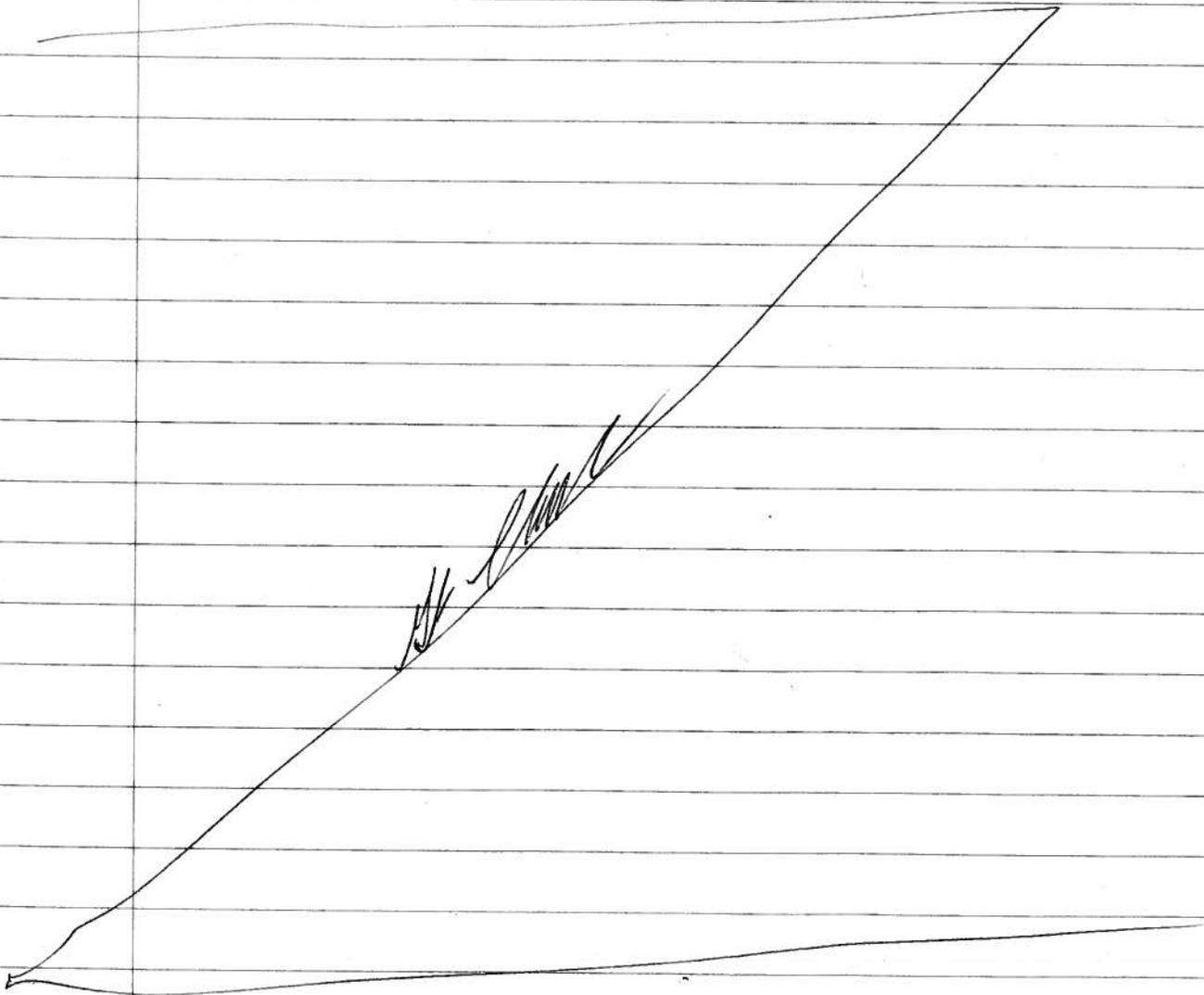
K5

20

(1)

5/5/10 CONT

| TRANSECT | ANOMALIES |
|----------|-----------|
| LH | 11 |
| LS | 5 |
| MH | 6 |
| MS | 23 |
| NH | 1 |
| NS | 3 |



CLAS

Times:

Mond

Tuesd

Wedn

Thurs

Frida

Satu

(12)

5/6/10

73°, PARTLY CLOUDY, WINDS WSW @ 5-10 mph HIGH 89°

0700 SAFETY BRIEFING

0715 LOAD EQUIPMENT AND GO TO SITE

0730 ON SITE, CHECK GPS, START BRUSH CUTTING

1200 LUNCH

1230 RESUME BRUSH CUTTING

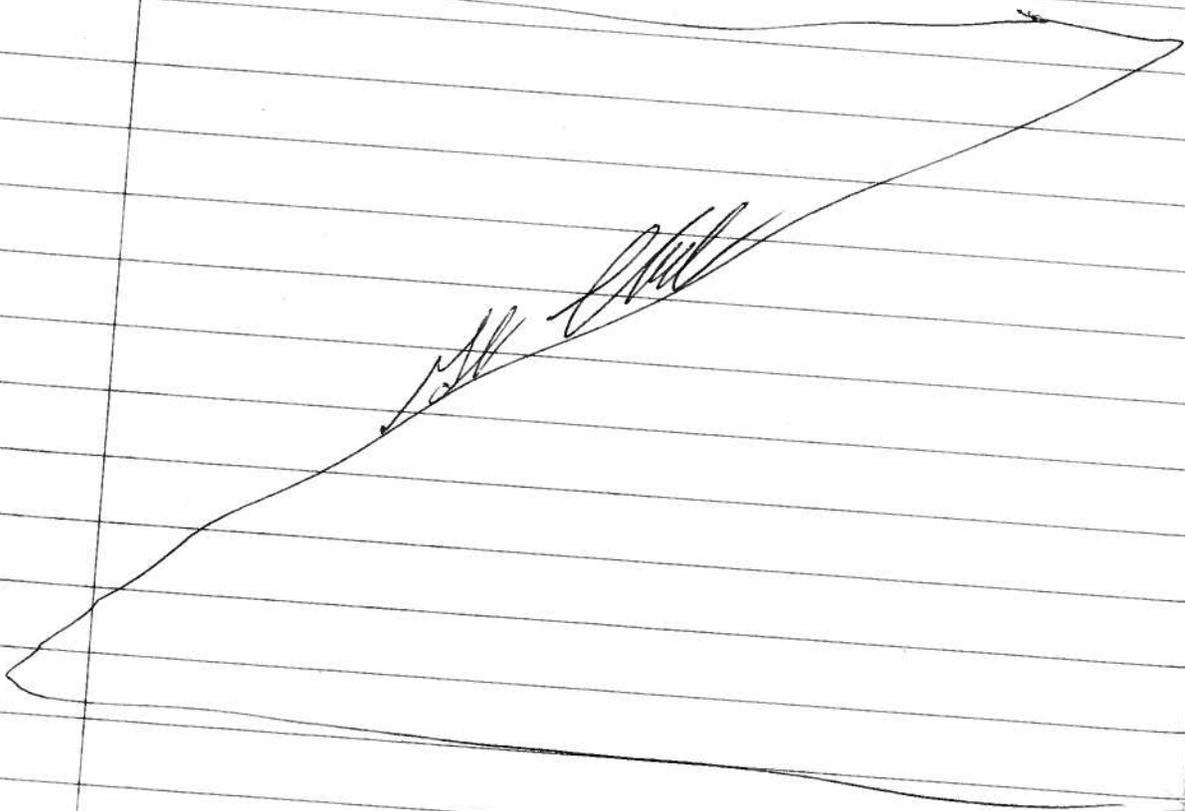
1620 STOP WORK GPS CHECK

1630 LOAD EQUIPMENT GO TO STORAGE SHED

1645 UNLOAD EQUIPMENT

1700 END OF DAY

BRUSH CUTTING APPROXIMATELY 65% COMPLETE



W

GE

Cent
ww

CN

Co

e

m

5/10/10

13

56°, CLEAR; WINDS E @ 5-10 MPH, HIGH 90°

0700 SAFETY BRIEFING, RECEIVED AN EMAIL FROM STEVE

CASSIDY THAT HE HAD FOUND AN IMBEDDED TICK ON HIM

0715 LOAD EQUIPMENT AND GO TO SITE

0730 ON SITE, CHECKOUT GPS, START BRUSH CUTTING, GPS CUT TRANSECTS

1030 SUNBELT BROUGHT 2 BRUSH CUTTERS

1130 ONE BRUSH CUTTER BROKE DOWN - SUNBELT NOTIFIED

1200 LUNCH

1230 RESUME BRUSH CUTTING

1620 STOP WORK GPS CHECK

1630 LOAD EQUIPMENT DEPART FOR STORAGE SITE

1645 UNLOAD EQUIPMENT

SUNBELT CALLED, THEY WILL HAVE A SERVICE MAN ON SITE FIRST THING IN THE MORNING.

1700 END OF DAY

BRUSH CUTTING APPROXIMATELY 90% COMPLETE. SHOULD START SWEEP OF TRANSECTS BY MID MORNING.

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CLASS

14

Time:

5/11/10

Monday

Tuesday

Wedne

Thursd

Friday

Saturd

0700

SAFETY BRIEFING

0715

LOAD EQUIPMENT AND GO TO SITE

0730

ON SITE - CHECK OUT GPS, START BRUSH CLEARING

0830

PORTA-POI MAN ON SITE

0915

SUNBELT HERE TO CHANGE OUT BRUSH CUTTERS

1030

BRUSH CUTTING COMPLETE, START SWEEPING TRANSECTS

CHECK OUT SCHONSTEDT & WHITE

1130

PART OF A PROJECTILE FUZE (MPPEH/MD) WAS LOCATED ON TRANSECT A-7 COORDINATES N2149124.07 E364104.19 ITEM #5

1200

LUNCH

1230

RESUME SWEEPING, QC PUT OUT 4 SEED ITEMS

1530

4 SEED ITEMS HAVE BEEN FOUND

1545

A FUZE PART (MPPEH/MD) WAS LOCATED IN TRANSECT C-9. COORDINATES N2148994.82 E364300.49 ITEM #6

1615

STOP WORK GPS CHECKS

1630

LOAD EQUIPMENT DEPART FOR STORAGE SHED

1700

END OF DAY

TRANSECTS SWEEP TODAY:

| TRANSECT | # ANOMALIES | TRANSECT | # ANOMALIES |
|----------|-------------|----------|-------------|
| A-3 | 1 | A-5 | 0 |
| A-4 | 0 | A-6 | 1 |

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5/11/10 CONT

| TRANSECT | # ANOMALIES | TRANSECT | # ANOMALIES |
|----------------------------|-------------|----------|-------------|
| A-7 | 1 | D-9 | 5 |
| A-8 | 2 | D-10 | 6 |
| A-9 | 3 | D-11 | 2 |
| 10-A 4C A-10 | 1 | D-12 | 2 |
| B-3 | 1 | D-13 | 2 |
| B-4 | 2 | 3-A | 2 |
| B-5 | 2 | 2-B | 0 |
| B-6 | 0 | 3-B | 0 |
| B-7 | 1 | 3-C | 0 |
| B-9 | 2 | 4-A | 0 |
| B-10 | 1 | 4-B | 0 |
| C-2 | 0 | 4-C | 3 |
| C-3 | 0 | 5-A | 1 |
| C-4 | 2 | 5-B | 2 |
| C-5 | 6 | 5-C | 1 |
| C-6 | 5 | 6-A | 1 |
| C-9 | 4 | 6-B | 1 |
| C-10 | 1 | 6-C | 4 |
| C-11 | 2 | 7-A | 1 |
| C-12 | 1 | 7-B | 3 |
| C-13 | 1 | 8-A | 2 |
| D-1 | 0 | 9-A | 3 |
| D-3 | 0 | 11-B | 0 |
| R-E | 2 | 14-C | 2 |

19

5/17/10

63°, CLEAR, WINDS SW @ 5-10 MPH HIGH 84°

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Time:
Mon
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Wed
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Sat

0700 SAFETY BRIEFING
0715 PICK UP EQUIPMENT AT STORAGE SHED
0730 ON SITE, GPS CHECK, CHECK OUT SHOUSTERS AND WHITE
START SWEEPING TRANSECTS

0930 A 20MM TP PROJECTILE (MPPEH/MD) WAS LOCATED
ON TRANSECT 10-D COORDINATES N 2148900.23
E 364476.06. ITEM # 7

1200 LUNCH, ~~QA~~ QC PLACED 3 SEED ITEMS ON THE
M TRANSECT

1230 RESUME SWEEPING TRANSECTS

1420 ALL SEED ITEMS LOCATED BY SWEEP TEAM

1615 GPS CHECK

1630 LOAD EQUIPMENT GO TO STORAGE SHED

1645 UNLOAD EQUIPMENT

1700 END OF DAY

TRANSECTS SWEEPED TODAY:

| TRANSECT # | # OF ANOMALIES | TRANSECT # | # OF ANOMALIES |
|------------|----------------|------------|----------------|
| E-7 | 15 | K-8 | 2 |
| E-8 | 24 | K-9 | 7 |
| E-9 | 9 | K-10 | 8 |
| E-10 | 11 | K-11 | 3 |
| E-11 | 22 | L-8 | 10 |
| E-12 | 9 | L-9 | 7 |
| E-13 | 6 | L-10 | 4 |

5/12/10 CONT

| TRANSECT # | # OF ANOMALIES | TRANSECT # | # OF ANOMALIES |
|------------|----------------|--------------------|-----------------|
| L-11 | 6 | O-8 | 0 |
| L-12 | 2 | P-5 | 0 |
| L-13 | 1 | P-6 | 0 |
| M-8 | 1 | P-7 | 0 |
| M-9 | 1 | P-8 | 0 |
| M-10 | 1 | P-9 | 0 |
| M-11 | 1 | 7-A | 10 |
| M-12 | 3 | 8-E | 24 |
| M-13 | 2 | 9-E | 9 |
| M-14 | 4 | 10-E | 11 |
| M-15 | 0 | 11-E | 22 |
| N-8 | 3 | 12-E | 9 |
| N-9 | 5 | 13-E | 6 |
| N-10 | 2 | 14-E ^{MC} | 2 |
| N-11 | 1 | 9-D | 0 |
| N-12 | 4 | 9-D | 4 |
| N-13 | 4 | 8-N | 3 |
| N-14 | 10 | 8-O | 0 |
| N-15 | 1 | 8-D | 5 ^{MC} |
| O-4 | 2 | 7-O | 0 |
| O-5 | 1 | 9-D | 23 |
| O-6 | 1 | 6-O | 1 |
| O-7 | 0 | 6-A | 0 |

(18)

5/12/10 CONT

| Time | ANOMALIE # | # OF ANOMALIES | ANOMALIE # | # OF ANOMALIES |
|------|------------|----------------|------------|----------------|
| Mon | 9-K | 7 | 11-M | 1 |
| Tues | 9-L | 7 | 11-J all | 8 |
| Wed | 9-M | 1 | 12-L | 2 |
| Thur | 9-N | 5 | 12-M | 3 |
| Frid | 10-K | 8 | 12-K all | 14 |
| Sat | 10-L | 4 | 13-L | 1 |
| | 10-M | 1 | 13-M | 2 |
| | 10-J | 12 | 13-K all | 4 |
| | 11-K | 13 | 14-M | 0 |
| | 11-L | 0 | 14-N | 1 |

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5/13/10

- 145 63°, CLEAR, WINDS SW @ 10-15 MPH, HIGH 84
- 0700 SAFETY BRIEFING
- 0715 LOAD EQUIPMENT AND GO TO SITE
- 0730 CHECK OUT GPS, SCHONSTEDTS AND WHITE
- 0745 START SWEEPING TRANSECTS
- 0915 MISSILE PARTS (MPPEH/MD) WERE LOCATED ON TRANSECT 17-K
COORDINATES N 2148203.25 E 365154.48, ITEM #8
- 1200 LUNCH
- 1230 RESUME SWEEPING, QC PLACED 5 SEEDS ON TRANSECTS
TO BE SWEEP
- 1345 AN EXPANDED STRIKE GRENADE (MPPEH/MD) WAS LOCATED
ON TRANSECT 19M COORDINATES N2148001.09,
E 365362.00, ITEM #9
- 1530 ALL 5 SEED ITEMS FOUND BY SWEEP TEAM
- 1615 STOP WORK GPS CHECK
- 1630 LOAD EQUIPMENT GO TO STORAGE SHED
- 1645 UNLOAD EQUIPMENT
- 1700 END OF DAY

TRANSECTS SWPT TODAY:

| TRANSECT # | # OF ANOMALIES | TRANSECT # | # OF ANOMALIES |
|------------|----------------|------------|----------------|
| D-14 | 14 | 15-D | 7 |
| D-15 | 9 | 15-E | 11 |
| D-16 | 8 | 16-D | 2 |
| D-17 | 6 | 16-E | 3 |

CLASS S

20

5/13/10 CONT

Time:

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

| TRANSECT # | # OF ANOMALIES | TRANSECT # | # OF ANOMALIES |
|------------|----------------|------------|----------------|
| D-18 | 4 | 17-D | 7 |
| D-19 | 8 | 18-D | 2 |
| E-14 | 8 | 19-D | 0 |
| E-15 | 5 | 19-G | 4 |
| E-16 | 20 | 20-G | 25 |
| F-19 | 6 | 21-F | 0 |
| F-16 | 2 | 21 G | 4 |
| G-20 | 2 | | |
| G-21 | 4 | | |

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5/14/10

63°, PARTLY CLOUDY, WINDS WSW @ 10-15 MPH, HIGH 86°

0700 SAFETY BRIEFING

0715 LOAD EQUIPMENT GO TO SITE

0730 ON SITE, GPS, SCHOENSTEDT AND WHITE @ CHECKOUT

0745 START SWEEP QC PLACED 2 SEED ITEMS ON THE E TRANSECT

0900 ALL SEED ITEMS LOCATED BY SWEEP TEAM

1015 QC FOUND A SMOKE MARKER (MPPH/MD) OFF THE SIDE OF TRANSECT 7E. COORDINATES N 2149155.70 E 364505.67 ITEM # 10

1200 LUNCH

1230 RESUME SWEEPING TRANSECTS

1615 STOP WORK GPS CHECK

1630 LOAD EQUIPMENT GO TO STORAGE SHED

1645 UNLOAD EQUIPMENT

1700 END OF DAY

THE FOLLOWING TRANSECTS WERE SWEEPED TODAY

| TRANSECT # | # OF ANOMALIES | TRANSECT # | # OF ANOMALIES |
|------------|----------------|------------|----------------|
| E-22 | 2 | 17-J | 5 |
| E-23 | 0 | 17-K | 5 |
| F-22 | 2 | 17-L | 1 |
| F-23 | 5 | 17-M | 1 |
| H-22 | 8 | 22-E | 1 |
| G-23 | 4 | 22-F | 1 |

22

5/14/10 CONT

| TRANSECT # | # OF ANOMALIES | TRANSECT # | # OF ANOMALIES |
|------------|----------------|------------|----------------|
| G-22 | 4 | 22-G | 2 |
| G-23 | 4 | 23-E | 1 |
| 17-1 | 4 | 23-F | 2 |
| 23-F | 2 | 23-G | 9 |



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5/15/10

- 0700 SAFETY BRIEFING
- 0715 LOAD EQUIPMENT AND GO TO SLIP
- 0730 CHECK OUT GPS, SCHEMSTEDTS, AND WHITE.
- 0745 START SWEEP OF TRANSECTS, RC PARKED 3 SKEED ITEMS ON TRANSECT 23
- 0930 ALL SKEED ITEMS HAVE BEEN LOCATED BY SWEEP TEAM
- 1100 LUNCH
- 1230 RESUME SWEEPING TRANSECTS
- 1615 STOP WORK GPS CHECK
- 1630 LOAD EQUIPMENT GO TO STORAGE SHEET
- 1645 UNLOAD EQUIPMENT
- 1700 END OF DAY

| TRANSECT # | # OF ANOMALIES | TRANSECT # | # OF ANOMALIES |
|------------|----------------|------------|----------------|
| I-22 | 31 | N-20 | 6 |
| I-23 | 0 | N-21 | 6 |
| J-16 | 5 | O-19 | 0 |
| J-17 | 4 | 18-K | 3 |
| J-22 | 1 | 18-L | 11 |
| J-23 | 3 | 18-M | 4 |
| J-24 | 0 | 19-L | 0 |
| K-16 | 36 | 19-M | 1 |
| K-17 | 17 | 20-L | 0 |
| K-22 | 1 | 20-M | 0 |

CLASS S

Time:

Monday

Tuesday

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Saturday

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5/15/10 CONT

TRANSECT # # OF ANOMALIES TRANSECT# # OF ANOM

| TRANSECT # | # OF ANOMALIES | TRANSECT# | # OF ANOM |
|------------------|----------------|-----------|-----------|
| 16- L | 17 | 20-N | 0 |
| L-17 | 30 | 21-L | 0 |
| L-18 | 5 | 21-M | 7 |
| L-22 | 2 | 22-L | 0 |
| M-16 | 5 | 22-M | 3 |
| M-17 | 3 | 23-H | 1 |
| M-18 | 2 | 23-1 | 0 |
| M-19 | 0 | 23-J | 0 |
| M-20 | 3 | 23-K | 0 |
| M-21 | 2 | 23-L | 2 |
| M-22 | 4 | 24-1 | 0 |
| N-19 | 0 | 25-1 | 0 |
| L-16 | 17 | E-1 | 2 |
| I-D | 2 | F-1 | 2 |
| I-E | 2 | G-1 | 2 |
| I-F | 1 | H-1 | 4 |
| I-G | 0 | J-1 | 2 |
| I-H | 1 | E-2 | 1 |
| I-I | 3 | D-2 | 1 |
| 10-B | 4 | 11-D | 11 |
| 10-C | 12 | 12-C | 4 |
| 10-D | 8 | 12-D | 17 |
| 11-C | 3 | 13-C | 0 |

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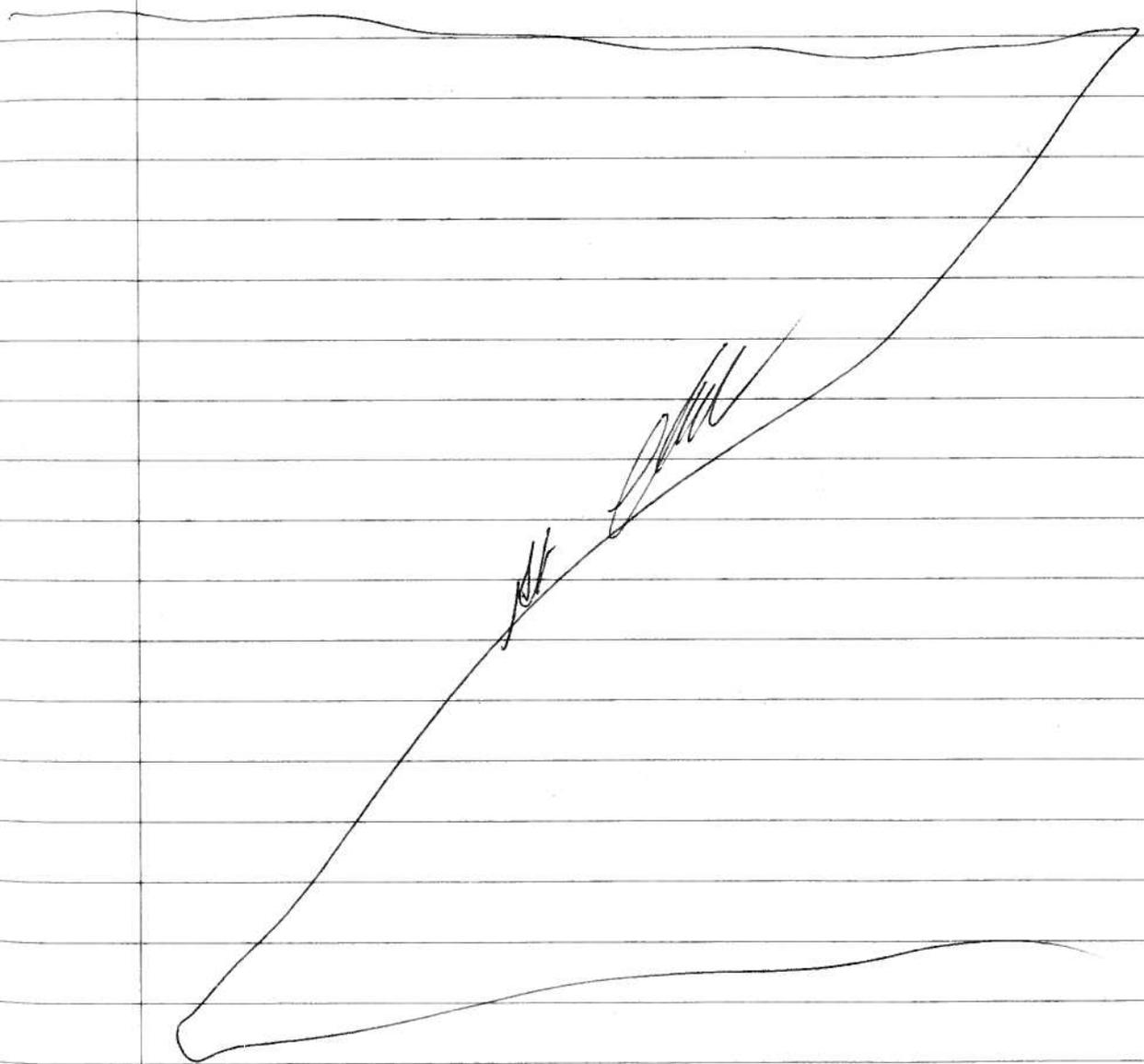
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5/15/CONT

| TRANSECT # | # OF ANOMALIES | TRANSECT # | # OF ANOMALIES |
|------------|----------------|------------|----------------|
| 13-D | 5 | 15-L | 2 |
| 14-C | 2 | 15-M | 0 |
| 14-D | 2 | 16-M | 7 |
| H-22 | 31 | H-23 | 0 |



CLASS S

Time:

Monday

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Saturday

26

5/18/10

68°, Fog, WINDS S @ 5MPH, HIGH 88° CHANCE

OF AFTERNOON THUNDER STORMS

0700

SAFETY BRIEFING

0715

LOAD EQUIPMENT, GO TO SITE

0730

ON SITE, EQUIPMENT MAINTENANCE

1200

LUNCH

1230

CONTINUE EQUIPMENT MAINTENANCE

1245

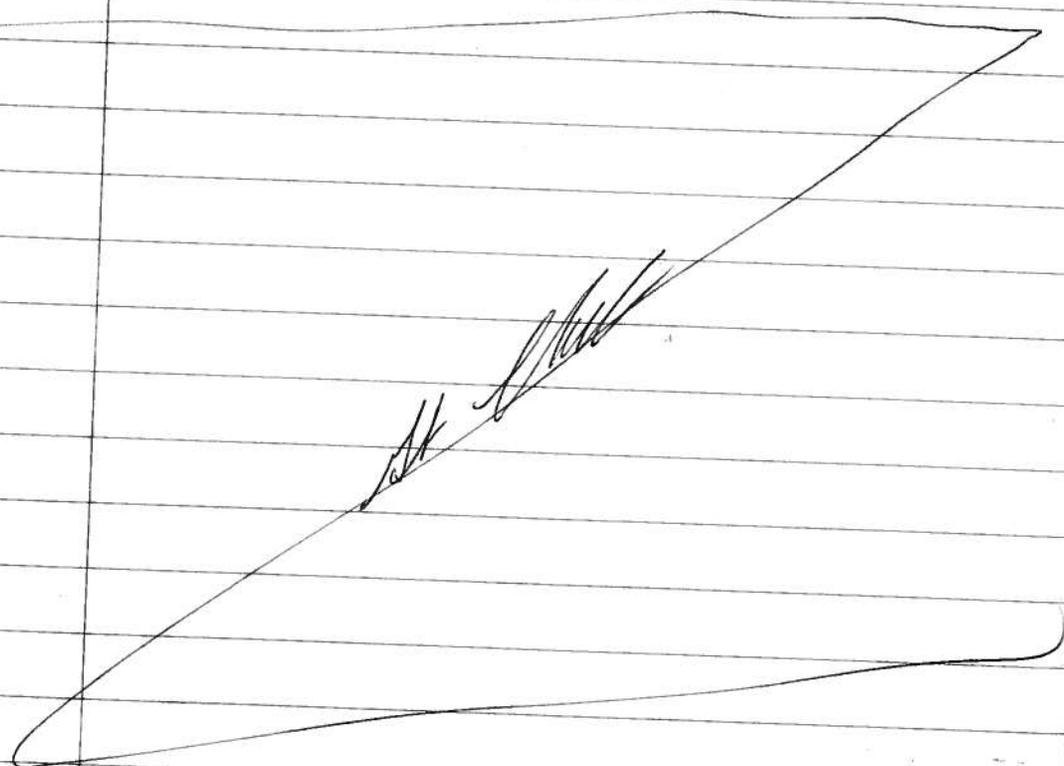
LOAD EQUIPMENT GO TO STORAGE SHED, RECEIVER CAL

1300

UNLOAD EQUIPMENT

1330

END OF DAY



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5/19/10

- 0700 CALL FROM JEFF FOURNIER STAND BY
- 0900 CALL FROM JEFF FOURNIER - GO TO WORK, SAFETY BRIEFING
72°, PARTLY CLOUDY, WINDS W @ 10 MPH, HIGH 90°,
CHANCE OF AFTERNOON THUNDER STORMS
- 0915 LOAD EQUIPMENT
- 0930 START LAYING OUT TRANSECTS
- 1045 TRANSECTS LAID OUT, START BRUSH CUTTING
- 1200 BRUSH CUTTING COMPLETE, LUNCH
- 1230 START SWEEPING TRANSECTS WITH SCHONSTEDT + WHITE
- 1300 A BASE PLATE (MPPEH) WAS LOCATED ON TRANSECT M-T3T4
ITEM # 11 COORDINATES N 2149529.44 E 365306.69
- 1330 A FUZE PART (MPPEH) WAS LOCATED ON TRANSECT 3-ILT1M
ITEM # 12 COORDINATES N 2149599.83 E 365228.68
- 1415 A FUZE PART (MPPEH) WAS LOCATED ON TRANSECT K-T2T3
ITEM # 13 COORDINATES N 2149613.32 E 365107.81
- 1430 2 SEED WERE FOUND BY SWEEP TEAM
- 1515 COMPLETED SWEEP OF TRANSECTS
- 1530 LOAD EQUIPMENT GO TO STORAGE SHED
- 1545 UNLOAD EQUIPMENT
- 1600 END OF DAY

THE FOLLOWING TRANSECTS WERE SWEEP

| TRANSECT # | # OF ANOMALIES | TRANSECT # | # OF ANOMALIES |
|------------|----------------|------------|----------------|
| T1-JK | 1 | K-T1T2 | 1 |
| T2-JK | 0 | K-T2T3 | 1 |

CLASS

28

Time:

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

5/19/10 CONT.

| TRANSECT # | # OF ANOMALIES | TRANSECT # | # OF ANOMALIES |
|------------|----------------|------------|----------------|
| T3-JK | 1 | K-T3T4 | 3 |
| T3-KL | 4 | L-T3T4 | 1 |
| T3-LM | 3 | M-T3T4 | 6 |

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5/20/10

68°, PARTLY CLOUDY, WINDS SW-10-15, HIGH 90°

- 0700 SAFETY BRIEFING
- 0745 LOAD EQUIPMENT, GO TO SITE
- 0750 ON SITE, LAY OUT NEW TRANSECTS
- 0830 TRANSECTS LAYD, START BRUSH CUTTING
- 1145 BRUSH CUTTING COMPLETE LUNCH
- 1215 START SCHOENSTREPT AND WHITE SWEEP OF GRIDS, QC PUT 4 SEED ITEMS OUT
- 1330 SWEEP TEAM LOCATED ALL 4 SEED ITEMS
- 1500 COMPLETED SWEEP OF TRANSECTS
- 1515 GPS CHECK
- 1550 LOAD EQUIPMENT GO TO STORAGE SHED
- 1545 UNLOAD EQUIPMENT
- 1600 TAKE BROKEN WREDDENTER TO SUBBELT
- 1700 END OF DAY

THE FOLLOWING TRANSECT WERE SWEEP TODAY

| TRANSECT # | # OF ANOMALIES | TRANSECT # | # OF ANOMALIES |
|------------|----------------|------------|----------------|
| T20-OP | 2 | PO-T20T21 | 1 |
| T21-NO | 5 | PO-T21T22 | 1 |
| T21-OP | 1 | PP-T20T21 | 3 |
| T22-NO | 1 | PP-T21T22 | 1 |
| T22-OP | 1 | | |



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Monday

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Saturday

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5/21/10

0700 SAFETY BRIEFING, 68° CLEAR, WINDS ESE 5-10 HIGH 89

0715 LOAD EQUIPMENT, GO TO SITE

0730 ON SITE, START SETTING UP TRANSECTS + GPS CHECK

1000 TRANSECT LAY OUT COMPLETE, START BRUSH CUTTING

1230 BRUSH CUTTING COMPLETE, LUNCH

1300 CHECK OUT SCHONSTEDTS AND WHITE, QC PUT 3 ITEMS OUT

1320 START SCHONSTEDT AND WHITE SWEEP OF TRANSECTS

1530 SWEEP OF TRANSECTS COMPLETE ALL SEED ITEMS WERE LOCATED.

1545 EQUIPMENT MAINTENANCE

1615 GPS CHECK

1630 LOAD EQUIPMENT, GO TO STORAGE SHED

1645 UNLOAD EQUIPMENT

1700 END OF DAY.

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5/22/10

67°, CLEAR, WINDS SE @ 5-10 MPH, HIGH 89°, ^{20%} CHANCE
OF AFTERNOON THUNDERSTORMS

0700 SAFETY BRIEFING

0715 LOAD EQUIPMENT AND GO TO SITE

0730 ON SITE, START LAYING OUT NEW TRANSECTS, GPS CHECK

1045 BRUSH CUTTING COMPLETE, CHECK OUT SCHONSTEDT & WHITE
TRANSECT C-T14515 LARGE PILE OF TREES WILL SWEEP
UP TO PILE ON BOTH SIDES

1100 START SCHONSTEDT & WHITE SWEEP OF TRANSECTS
DC PUT OUT 2 SEED ITEMS

1200 LUNCH

1230 CONTINUE SWEEP OF TRANSECTS

1400 SWEEP OF TRANSECTS COMPLETE, ALL SEED ITEMS FOUND
BY THE SWEEP TEAM

1415 START PICKING UP STAKES

1606 GPS CHECK

1620 LOAD EQUIPMENT AND GO TO STORAGE SHED

1635 UNLOAD EQUIPMENT

1700 END OF DAY

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Time:
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5/23/10

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|------|--|
| 0700 | SAFETY BRIEFING |
| 0715 | LOAD EQUIPMENT AND GO TO SITE |
| 0730 | ON SITE, START PICKING UP STAKES |
| 1200 | LUNCH |
| 1230 | CONTINUE PICKING UP STAKES AND FLAGGING TAP |
| 1400 | GO TO STORAGE AREA, CLEAN EQUIPMENT FOR TRIP AND PACK FOR SHIPMENT |
| 1700 | END OF DAY |

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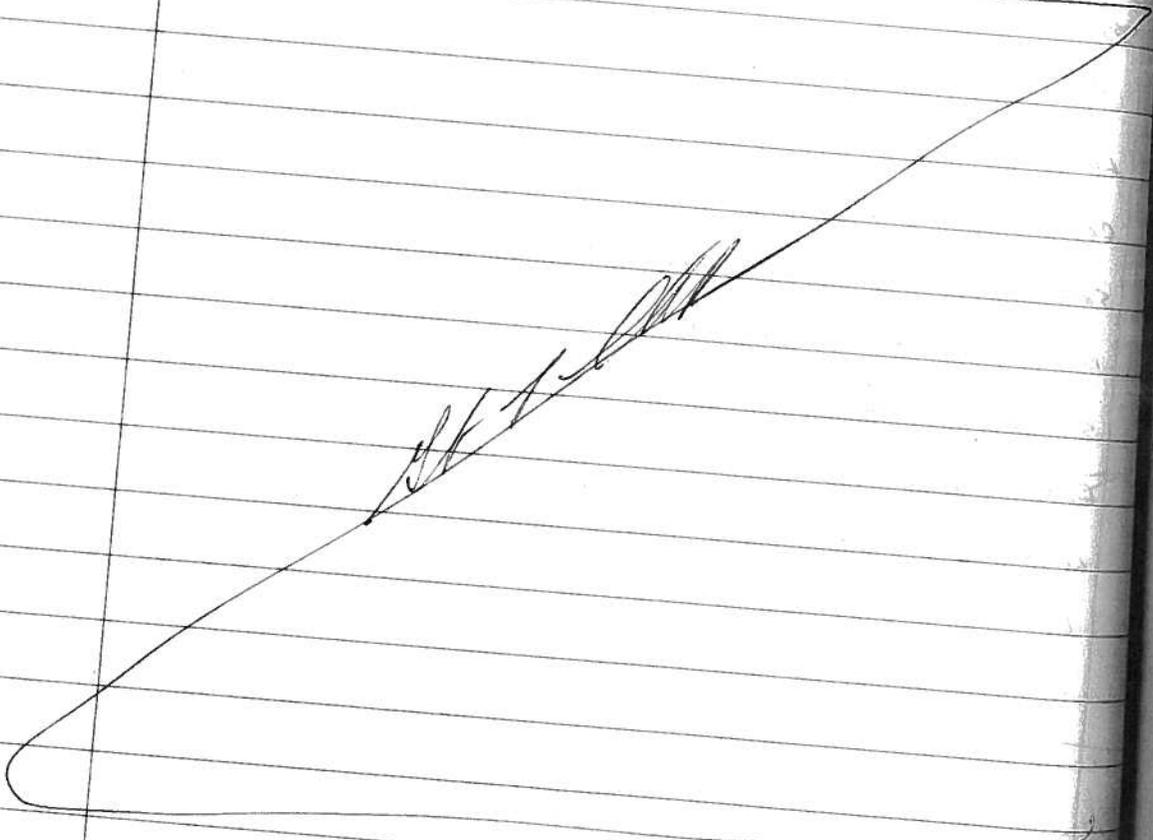
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APPENDIX C-10

UXOQC SAFETY FIELD LOGBOOK

4/27/10

0800 All personnel present, initial briefing

0830 Site tour

1000 Work plan review

1200 Lunch

1230 Health and safety plan review

1430 Crew departs to acquire equipment

1900 Crew secured for the day.

JM

4/28/10

- 0700 Crew departs Hotel for job site after receiving tailgate safety brief.
- 0800 Crew begins staking transects
- 1230 Crew breaks for lunch
- 1300 Crew begins restaking perimeter of grids again.
- 1430 The crew finds (3) items outside of boundary between stakes 21N and 22N
- ITEM NO 1 (1) propellant canister MDAS
at coordinates N 2147746.25 E 365 412.93
- ITEM NO 2 (2) propellant canister MDAS and
MPPEH at coordinates N 2147752.62 E. 365 408.05
- 1700 Crew secures for the day

Paul J. Hester

4/29/10

- 0700 Daily safety brief
- 0730 Crew gears up for days chore, staking perimeter of work site & c checks of GPS units.
- 0950 Perimeter stakes are in. Crew begins staking interior grids.
- 1200 Crew breaks for lunch.
- 1230 Work resumes
- 1630 The crew stops work, driver down to a storage shed unload equipment, reacquires control point for GPS and,
- 1700 Secures for the day.
- 1900 Steve Cassidy informs me he found an embedded tick on his chest and will pull it out.

~~Steve Cassidy~~

4-30-10

- 0700 Crew gets safety brief.
- 0740 Both teams begin brush cutting transects
11J, 809.
- 0945 One team commences to finish off the
staking and GPS'ing of grid stake
positions.
- 1200 Lunch
- 1230 Brushcutting and staking of transects
resumes.
- 1630 Work stops, crew stows gear at rental
shed
- 1700 Crew secures for the day.



5-1-10

- 0700 Daily safety brief
- 0740 Gear is picked up, GPS units get Q.C.D
- 0750 Brush cutting on transects and staking of inner transects resumes.
- 0900 Staking of inner transects done, this team begins brush cutting transects
- 1020 Mack Soba leaves job site (Demobs)
- 1200 Lunch
- 1230 Both teams resume brushcutting, so far they've done about 1/3 of total area to be cut.
- 1330 One of the brush cutting teams suffers the loss of their weed eater. Both operators will now share the sole remaining weed eater until a replacement can be had.
- 1630 Crew load up and stow gear in shed.
- 1700 Crew secures for the day.
- 1745 Allen Childers finds a tick on his chest.

John Harte

5-2-10

- 0900 Crew gets safety brief. Frank Honey gets his initial safety brief.
- 0940 GPS units get OC checks, Weed whackers get prepped for brush-cutting.
- 0955 Logging of transects begins. Brush Cutting begins.
- 1200 Lunch
- 1230 Brush cutting continues. Transects are plotted, sweeping of transects begins. Transect 1 is seeded with 3 items.
- 1630 All three seed items were found.
- 1645 Crew proceeds to storage shed.
- 1700 Crew secures for the day.

Frank Honey

5-3-10

- 0900 Daily safety brief
- 0930 Steve Cassidy and Norm Piper proceed to find two known points for a better GPS Q.C. check. Frank Loney and Charles Everitt resume brush cutting transects.
- 0945 The two known points have been acquired.
- 1000 The sole remaining weed whacker goes down. Loney + Everitt switch to sweeping transect J: from 1-6.
- 1100 Weed whacker has ~~gone down~~ ^{received} and will need servicing, it's back on the site.
- 1200 Lunch
- 1230 Everitt + Loney resume brush cutting
Lion + Cassidy resume sweeping
- 1145 Late entry (1) slip flare (empty) was found on transect J. 2149369.3N 365001.1 E. ID# 3.
- 1435 Cassidy + Piper find (1) Slip Flare on Transect (S) between I + J at 2149402.86N and 364973.56E
- 1500 Weed eater quits again, Everitt + Loney switch to sweeping.
- 1615 Crew puts gear away, and GPS' get Q.C. check and proceed to storage shed.
- 1700 Crew quits for the day.

Frank Loney

May 4, 2010

- 0900 Daily safety brief.
- 0930 GPS units get QC check. Everitt & Loney run through test strip and get mazing instruction.
- 0800 Loney & Everitt start sweeping transect H-5-6.
- 0830 Piper & Cassidy have difficulty QC checking GPS. They now start sweeping.
- 1000 The weed whackers were returned and crew starts brush cutting again.
- 1200 Lunch
- 1230 Brush cutting resumes
1430. Weed whacker goes down again. Cassidy & Piper will walk and GPS transects for the rest of the day. Robert Simeik Mahjorant and Art Sanborn visit the site for a few minutes.
- 1630 GPS get QC'd. Crew loads up gear and heads to storage shed.
- 1700 Crew sealer for the day
- 1800 Fowl Loney finds embedded tick on his back and removes it.

~~John Ventres~~

5-5-2010

- 0900 Daily safety brief is given, crew prep gear.
Piper and Cassidy log in O.C. points.
- 0930 Cassidy and Piper begin sweeping transects.
- 0930 Broken weed whacker has been repaired and
back on site.
- 0950 Piper and Cassidy resume brush-cutting transects.
- 1100 Approx half the brush cutting is done.
- 1200 Lunch
- 1230 Crew resumes brush cutting using two machines.
- 1410 Linda Klink arrives for a site tour.
- 1620 GPS units QC'D crew load gear, heads for
storage shed.
- 1700 Crew deurer for the day.
- 1800 Charles Eventl finds two ticks, one on each leg.

[Signature]

5-6-18

- 0700 Daily safety brief is given. crew prepares gear for brush cutting.
- 0815 Cassidy & Piper begin brush-cutting as well as Lorey & Everett.
- 1200 Lunch
- 1230 Crew resumes brush cutting.
- 1620 GPS QC'D, Crew loads gear, heads for shed
- 1700 Crew secures for the day.

John Jones

5-10-10

- 0700 Safety brief
- 0750 QC points are acquired by Loney & Montes
John and Piper begin brush cutting
transsects.
- 0830 Loney & Montes begin logging transsects into
GPS.
- 1130 Loney & Montes stop logging & start brush-
cutting
- 1200 Lunch
- 1230 Brush cutting continues
- 1600 Crews begin to store away their gear for the
day.
- 1610 Another brush cutter goes down. GPS are QC'd
Crew heads for the shed.
- 1700 Crew leaves for the day

Paul Montes

U

5-11-10

- 0700 Daily safety brief, crew prepares gear for work.
- 0730 QC Ponata dropped in. Brush cutting begins
- 0815 Snow team (Lorenzo Monter) begin brush cutting.
- 1030 Brush cutting over. Preparation for transect sweeping begin. Piper begins logging in transects.
- 1000 John and Honey begin sweeping transect "A"
- 1130 Prop Inge (MAPPH) found on transect A between 7-8.
GPS 2149124.03N 364104.19E ITEM #5.
- 1230 Sweeping of transect "B" begins. Four seeds ^{stage} which were placed on transect "A" ~~have been found~~ ^{FM}
- 1530 All four seeds were found at this time
- 1545 Inge lost MAPPH/MD WAS FOUND ON TRANSECT C-9 at 214894.82N 364300.49E
- 1610 Crew prepares to depart site. QC check are done for GPS. Gen is stowed in storage shed.
- 1700 Crew secures for the day

Lorenzo Monter

5-12-10

- 0700 Daily safety brief is given.
Crew prepares gear for day ahead.
- 0730 John and Loney start sweeping transects.
QC checks on GPS are performed.
- 0810 Piper begins logging in brush cut transects.
- 0925 (1) 20mm Target Practice projectile was found
at 2148900.23N & 364476.06E Transect 10-D.
ID # 7
- 1030 QC/Safety begins inspecting ^{FSM} transects ~~of~~ for Quality
Control.
- 1200 Lunch.
- 1430 Crew resumes sweeping transects. Three (3)
seeds are placed on transect "M".
- 1470 Sweeping crew finds all seeds on transect
M.
- 1600 Crew stows gear, QC check on GPS is done.
- 1620 Crew heads to shed to stow gear.
- 1700 Crew secures for the day.

~~John Loney~~

5-13-10

- 0700 Daily safety brief. Crew prep gear
- 0745 Surface sweep begins
- 0815 (1) Remnant of missile guidance Package is found on transect 17K. 2148203.25N
365154.48 E MPPBH/MDAS ID# 8
- 0840 QC begins checking transects.
- 1100 QC stops checking transects.
- 1200 Lunch
- 1230 Crew resumes sweeping, (5) seeds are placed on transect "M" 19-21. All are found
- 1335 An expended smoke grenade was found on transect 19M, 2148001.09 N 365362.00 E ID# 9
- 1600 Crew loads up gear to stow it away, QC checks are performed on GPS units.
- 1630 Crew drives to storage shed.
- 1700 Crew secures for the day.

Paul H. [unclear]

5-14-10

- 0700 Daily safety brief. Crew preps gear for the day.
- 0730 QC checks on GPS units are done.
- 0745 Crew begins sweeping transects beginning with the "E" line at 22 going south. 2 seed items were placed on the "E" 24 transect.
- 1015 A sea marker was found off of transect "E" on section 7 MAPEN~~MD~~ at 2149155.70 N and 364505.67 E.
- 1200 Lunch
- 1230 The crew resumes sweeping transects
- 1610 Crew loads up gear, QC checks are done for GPS
Crew heads for shed.
- 1700 Crew secures for the day

Sea Marker

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5-15-10

- 0700 Daily safety brief is given. Crew prep gear for days activities
- 0730 Mark John & Turk Lorey run their instruments over Instrument test strip. QC points are acquired
- 0745 Crew begins sweeping Transect 23 (3) seed items were placed on transect 23 between J-K-L
- 0800 QC begins QC check of previously swept transects.
- 0930 All (3) seed items were found by sweep team
- 1200 Lunch
- 1230 Crew resumes sweeping transects
- 1345 QC check of swept transects is done for the day, all transects checked have passed QC.
- 1610 Crew loads gear up. QC checks are done for GPS, crew heads for storage shed
- 1700 Crew returns for the day.

~~Paul Yonke~~

5-18-10

- 0700 Daily safety brief. Crew prep gear.
Daily QC points are acquired
- 0745 Equipment maintenance is performed by crew.
- 0750 QC and SUXS photograph (10) MEC Items
- 1200 Lunch
- 1230 Equipment Maintenance Continues
- 1245 Crew is advised to secure by P.M.
- 1330 Crew secure for the day.

John P. [unclear]

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5-19-10

- 0900 Daily safety brief is given, crew prep gear for daily activities.
- 0930 Crew begins to lay out new transects.
- 1000 QC check on central points are acquired.
- 1030 GPS recording of new transects begin.
- 1045 Brush cutting of new transects begin.
- 1200 Brush cutting complete / GPS of new stakes and transects complete - Lunch.
- 1200 Sweeping of new transects begins
- 1300 a base plate was found on transect M-3, #11 @ N 214529.44 - E 365228.69
- 1415 a fuse pot was found on transect B-2, #12 at N 214959.83, E 365228.68
- 1430 Fuse pot found on transect K-2, #13 at N 2149613.32, E 365107.81
- 1435 Crew finds (2) seed items placed by QC/survey on transect K-2-4.
- 1520 Sweep of transects complete. QC check of new transects complete, no discrepancies found. Crew heads to storage shed.
- 1530 Crew heads to storage shed.
- 1600 Crew leaves for the day

John M. ...

5-20-10

- 0700 Daily safety brief is given
- 0730 Crew begins to lay out new transects.
GC points are acquired.
- 0830 Brush cutting begins
- 1145 Lunch
- DC places 4 seeds on transect 22 O-P
- 1215 Sweeping of new transects begins
- 1300 Crew finds all 4 seed items
- 1500 Sweeping completed.
- 1515 GC check of transects complete. No discrepancies noted.
- 1530 Crew heads to storage shed
- 1600 Crew secures for the day

J. K. Martin

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5-21-10

- 0700 Daily safety brief is given
- 0730 Crew begins to lay out new transects. QC points are acquired.
- 1000 Brush cutting ^{FSM} ~~over~~ begins
- 1215 Brush cutting is over.
- 1230 Lunch
- 1310 Crew tests out instruments (3) seeds are placed on transect AA at 7 and 8.
- 1320 Sweeping of new transects begins.
- 1515 Sweeping completed. All seeds are found.
- 1620 QC check of GPS units could not be done due to lack of satellites.
- 1630 Crew heads to storage shed.
- 1700 Crew departs for the day.

John W. ...

5-22-10

- 0700 Daily safety brief given, crew prep for daily activities
- 0730 Crew begins to stake out new transects.
DC points are acquired. Brush cutting begins
- 1045 Brush cutting over.
- 1100 Instruments are tested. Sweeping begins. (2)
Seeds are placed on transect 17-C
- 1230 Lunch
- 1310 Continuation of sweeping
- 1415 Sweeping of transects ~~complete~~ complete, both seeds are located.
- 1445
~~1450~~
FTM DC check of new transects complete, no discrepancies found.
- 1600 DC check of GPS done
- 1630 Crew heads to shed
- 1700 Crew heads home for the night

Paul Hester

5-23-10

0700

Final Safety Brief is given, crew preps
go for daily activity.

0730

Crew begins to walk through site, picking
up stakes, removing ribbon from trees, bushes
etc, and any misc trash left behind.
GPS is dug up.

1200

Lunch

1230

Picking up of stakes continues.

1400

Crew heads to shed, prepares equipment
for transport/turn in

1700

Crew secures, Juxo Glen Childers found
an embedded tick this Apr.

Paul Stambaugh

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APPENDIX C-11

EXPLOSIVE SAFETY SUBMISSION DETERMINATION



DEPARTMENT OF THE NAVY
NAVAL ORDNANCE SAFETY AND SECURITY ACTIVITY
FARRAGUT HALL
3817 STRAUSS AVENUE, SUITE 108
INDIAN HEAD, MD 20640-5151

8020
Ser N539/255
25 Feb 10

From: Commanding Officer, Naval Ordnance Safety and Security Activity
To: Director, Base Realignment and Closure Program Management Office, Southeast (BRAC PMO SE)
Subj: EXPLOSIVES SAFETY SUBMISSION DETERMINATION REQUEST FOR A REMEDIAL INVESTIGATION OF SITE 15, CECIL FIELD, FLORIDA
Ref: (a) E-mail BRAC PMO Southeast Mr. A. Sanford/NOSSA (N539) Mr. D. Murray of 12 Feb 10 (w/encl)
(b) NOSSAINST 8020.15B, Explosives Safety Review, Oversight, and Verification of Munitions Responses, of 26 Jan 09
(c) NAVSEA OP 5, Volume 1, Seventh Revision, Change 8

1. As requested by reference (a), the Naval Ordnance Safety and Security Activity (NOSSA) reviewed the subject Explosives Safety Submission (ESS) Determination Request in accordance with references (b) and (c). Based on the information provided, NOSSA has determined that an ESS is not required to conduct a Remedial Investigation (RI) of Site 15 (Operable Unit 5, Blue 10 Ordnance Disposal Area), Cecil Field, Florida.

2. As outlined in your request, we understand that the likelihood of encountering Munitions and Explosives of Concern (MEC) and/or Material Potentially Presenting an Explosive Hazard (MPPEH) during the proposed project has been determined to be low and that the following conditions apply:

a. The RI will consist of a visual and detector-aided survey of MEC/MPPEH, as well as munitions and non-munitions debris, that may be present. The information shall be used to delineate boundaries, fill site information data gaps, and assess the hazard/risk posed by any surface MEC that may be present at the site.

b. Anomaly avoidance techniques described in reference (b) shall be employed by Unexploded Ordnance (UXO)-qualified

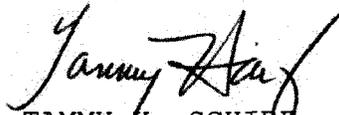
Subj: EXPLOSIVES SAFETY SUBMISSION DETERMINATION REQUEST FOR A
REMEDIAL INVESTIGATION OF SITE 15, CECIL FIELD, FLORIDA

technicians. Limited vegetation clearance may also take place in order to provide adequate site access. This will also be conducted by UXO-qualified technicians.

c. The site is outside of all existing explosives safety quantity distance arcs.

3. If surface MEC or MPPEH is discovered on the site while employing anomaly avoidance techniques, the item will be avoided and its location and description will be reported to the cognizant Explosive Safety Officer and the Navy Project Manager. An emergency response from the cognizant Explosive Ordnance Disposal detachment will be requested, if appropriate.

4. The NOSSA point of contact for this ESS determination is Mr. Douglas Murray, who can be contacted at DSN 354-5630 or commercial at 301-744-5630.


TAMMY K. SCHIRF
By direction

Copy to:

CNO (A. Malson; W. Holmes and E. Newbaker)
NAVFAC HQ (R. Sadorra)
COMNAVREG SE JACKSONVILLE ESO (P. Driver)
NOSSA ESSOLANT (B. Sizemore and D. Moore)

APPENDIX D

MEC DATA USABILITY ASSESSMENT

**MRP Field Investigation
 NAS Cecil Field
 Jacksonville, Florida**

| Usability Checklist Table | | | |
|----------------------------------|---|-----------------------------|-------------------------------|
| Phase of Work | Item to be checked/verified | Verified (Yes or No) | Comments or Deviations |
| Pre-Survey | Qualification of Survey Team evaluated | Yes | |
| | Personnel reviewed and signed-off on relevant SAP section(s) | Yes | |
| Survey | QC evaluation of survey equipment (tests and checklists satisfactorily completed) | Yes | |
| | Conformance to SAP requirements and procedures for all survey work and rework (including documentation requirements), and all deficiencies documented | Yes | |
| | Coverage of Areas to be Investigated fulfilled and located within accuracy levels required for the SI | Yes | |
| | Interpretation and Summary of Geophysical Data satisfies SAP requirements and conformance with Data Processing Flowchart (Worksheet 17 of UFP-SAP) | Yes | |

APPENDIX D-1

**DATA USABILITY ASSESSMENT -
CERTIFICATION OF PROPER OPERATION OF DETECTION AND POSITIONING SYSTEMS
NAS CECILE FIELD
JACKSONVILLE, FLORIDA**

The UXO Manager, acting on behalf of the project team, prepared a table listing planned calibration and QC checks, their occurrence and the results (acceptable or not acceptable) for each type of metal detector, geophysics instrument, and positioning system equipment that was used on the project will be prepared. Data collected by any improperly operating equipment was identified.

| Date(s) | Instrument Type/Manufacture | Instrument Serial Number | Test Plot Items Instrument Tested on (Last Item Numbers) | Test Results | Personnel Testing Equipment (1) | Comments |
|----------------|------------------------------------|---------------------------------|---|---------------------|--|-----------------|
| 4/29/2010 | Trimble XH GPS | 4918412217 | -- | Acceptable | Childres, Montes | None |
| | Trimble XH GPS | 70950-00 | -- | Acceptable | | |
| 4/30/2010 | Trimble XH GPS | 4918412217 | -- | Acceptable | Childres, Montes | None |
| 5/1/2010 | Trimble XH GPS | 4918412217 | -- | Acceptable | Childres, Montes | None |
| | Trimble XH GPS | 70950-00 | -- | Acceptable | | |
| 5/2/2010 | Schonstedt GA-52Cx | 07527 | 3/3 blind seeds | Acceptable | Childres, Montes | None |
| | Schonstedt GA-52Cx | 07529 | | Acceptable | | |
| | White's Spectrum XLT | 6156-0300-042 | | Acceptable | | |
| | Trimble XH GPS | 4918412217 | -- | Acceptable | | |
| | Trimble XH GPS | 70950-00 | -- | Acceptable | | |
| 5/3/2010 | Schonstedt GA-52Cx | 07527 | -- | Acceptable | Childres, Montes | None |
| | Schonstedt GA-52Cx | 07529 | -- | Acceptable | | |
| | White's Spectrum XLT | 6156-0300-042 | -- | Acceptable | | |
| | Trimble XH GPS | 4918412217 | -- | Acceptable | | |
| | Trimble XH GPS | 70950-00 | -- | Acceptable | | |
| 5/4/2010 | Schonstedt GA-52Cx | 07527 | IVS - 4 seeds | Acceptable | Loney, Everitt | None |
| | Schonstedt GA-52Cx | 07529 | | Acceptable | | |
| | White's Spectrum XLT | 6156-0300-042 | | Acceptable | | |
| | Trimble XH GPS | 4918412217 | -- | Acceptable | Childres, Montes | |
| | Trimble XH GPS | 70950-00 | -- | Acceptable | | |

APPENDIX D-1

**DATA USABILITY ASSESSMENT -
CERTIFICATION OF PROPER OPERATION OF DETECTION AND POSITIONING SYSTEMS
NAS CECILE FIELD
JACKSONVILLE, FLORIDA**

| Date(s) | Instrument Type/Manufacture | Instrument Serial Number | Test Plot Items Instrument Tested on (Last Item Numbers) | Test Results | Personnel Testing Equipment (1) | Comments |
|----------------|------------------------------------|---------------------------------|---|---------------------|--|-----------------|
| 5/5/2010 | Schonstedt GA-52Cx | 07527 | -- | Acceptable | Childres, Montes | None |
| | Schonstedt GA-52Cx | 07529 | -- | Acceptable | | |
| | White's Spectrum XLT | 6156-0300-042 | -- | Acceptable | | |
| | Trimble XH GPS | 4918412217 | -- | Acceptable | | |
| | Trimble XH GPS | 70950-00 | -- | Acceptable | | |
| 5/6/2010 | Trimble XH GPS | 4918412217 | -- | Acceptable | Childres, Montes | None |
| | Trimble XH GPS | 70950-00 | -- | Acceptable | | |
| 5/10/2010 | Trimble XH GPS | 4918412217 | -- | Acceptable | Childres, Montes | None |
| | Trimble XH GPS | 70950-00 | -- | Acceptable | | |
| 5/11/2010 | Schonstedt GA-52Cx | 07527 | 4/4 blind seeds | Acceptable | Childres, Montes | None |
| | Schonstedt GA-52Cx | 07529 | | Acceptable | | |
| | White's Spectrum XLT | 6156-0300-042 | -- | Acceptable | | |
| | Trimble XH GPS | 4918412217 | -- | Acceptable | | |
| | Trimble XH GPS | 70950-00 | -- | Acceptable | | |
| 5/12/2010 | Schonstedt GA-52Cx | 07527 | 3/3 blind seeds | Acceptable | Childres, Montes | None |
| | Schonstedt GA-52Cx | 07529 | | Acceptable | | |
| | White's Spectrum XLT | 6156-0300-042 | -- | Acceptable | | |
| | Trimble XH GPS | 4918412217 | -- | Acceptable | | |
| | Trimble XH GPS | 70950-00 | -- | Acceptable | | |
| 5/13/2010 | Schonstedt GA-52Cx | 07527 | 5/5 blind seeds | Acceptable | Childres, Montes | None |
| | Schonstedt GA-52Cx | 07529 | | Acceptable | | |
| | White's Spectrum XLT | 6156-0300-042 | -- | Acceptable | | |
| | Trimble XH GPS | 4918412217 | -- | Acceptable | | |
| | Trimble XH GPS | 70950-00 | -- | Acceptable | | |

APPENDIX D-1

**DATA USABILITY ASSESSMENT -
CERTIFICATION OF PROPER OPERATION OF DETECTION AND POSITIONING SYSTEMS
NAS CECILE FIELD
JACKSONVILLE, FLORIDA**

| Date(s) | Instrument Type/Manufacture | Instrument Serial Number | Test Plot Items Instrument Tested on (Last Item Numbers) | Test Results | Personnel Testing Equipment (1) | Comments |
|----------------|------------------------------------|---------------------------------|---|---------------------|--|---|
| 5/14/2010 | Schonstedt GA-52Cx | 07527 | 2/2 blind seeds | Acceptable | Childres, Montes | None |
| | Schonstedt GA-52Cx | 07529 | | Acceptable | | |
| | White's Spectrum XLT | 6156-0300-042 | -- | Acceptable | | |
| | Trimble XH GPS | 4918412217 | | Acceptable | | |
| | Trimble XH GPS | 70950-00 | | Acceptable | | |
| 5/15/2010 | Schonstedt GA-52Cx | 07527 | IVS - 4 seeds, 3/3 blind seeds | Acceptable | Soha, Loney | None |
| | Schonstedt GA-52Cx | 07529 | | Acceptable | | |
| | White's Spectrum XLT | 6156-0300-042 | -- | Acceptable | Childres, Montes | |
| | Trimble XH GPS | 4918412217 | | Acceptable | | |
| | Trimble XH GPS | 70950-00 | | Acceptable | | |
| 5/18/2010 | Trimble XH GPS | 4918412217 | -- | Acceptable | Childres, Montes | None |
| | Trimble XH GPS | 70950-00 | -- | Acceptable | | |
| 5/19/2010 | Schonstedt GA-52Cx | 07527 | 2/2 blind seeds | Acceptable | Childres, Montes | None |
| | Schonstedt GA-52Cx | 07529 | | Acceptable | | |
| | White's Spectrum XLT | 6156-0300-042 | -- | Acceptable | | |
| | Trimble XH GPS | 4918412217 | | Acceptable | | |
| | Trimble XH GPS | 70950-00 | | Acceptable | | |
| 5/20/2010 | Schonstedt GA-52Cx | 07527 | 4/4 blind seeds | Acceptable | Childres, Montes | None |
| | Schonstedt GA-52Cx | 07529 | | Acceptable | | |
| | White's Spectrum XLT | 6156-0300-042 | -- | Acceptable | | |
| | Trimble XH GPS | 4918412217 | | Acceptable | | |
| | Trimble XH GPS | 70950-00 | | Acceptable | | |
| 5/21/2010 | Schonstedt GA-52Cx | 07527 | 3/3 blind seeds | Acceptable | Childres, Montes | None |
| | Schonstedt GA-52Cx | 07529 | | Acceptable | | |
| | White's Spectrum XLT | 6156-0300-042 | -- | Acceptable | | End of day GPS QC could not be completed due to lack of satellites. |
| | Trimble XH GPS | 4918412217 | | Acceptable | | |
| | Trimble XH GPS | 70950-00 | | Acceptable | | |

APPENDIX D-1

**DATA USABILITY ASSESSMENT -
 CERTIFICATION OF PROPER OPERATION OF DETECTION AND POSITIONING SYSTEMS
 NAS CECILE FIELD
 JACKSONVILLE, FLORIDA**

| Date(s) | Instrument Type/Manufacture | Instrument Serial Number | Test Plot Items Instrument Tested on (Last Item Numbers) | Test Results | Personnel Testing Equipment (1) | Comments |
|----------------|------------------------------------|---------------------------------|---|---------------------|--|-----------------|
| 5/22/2010 | Schonstedt GA-52Cx | 07527 | 2/2 blind seeds | Acceptable | Childres, Montes | None |
| | Schonstedt GA-52Cx | 07529 | | Acceptable | | |
| | White's Spectrum XLT | 6156-0300-042 | Acceptable | | | |
| | Trimble XH GPS | 4918412217 | -- | Acceptable | | |
| | Trimble XH GPS | 70950-00 | -- | Acceptable | | |

(1) The SUXOS and UXOQCS provided oversight of all QC activities and documentation is included in Appendix C.

APPENDIX D-2

**DATA USABILITY ASSESSMENT -
 QUALIFICATION AND CERTIFICATION OF SURVEY TEAM
 NAS CECILE FIELD
 JACKSONVILLE, FLORIDA**

This table lists each member of the detector-aided surface sweep team and the required certifications and training in order to demonstrate competency.

| Name | Title/Role | Responsibilities | Education and/or Experience Qualifications (Minimal) | Meets Requirements |
|---------------|--------------------------|--|--|---------------------------|
| Ralph Brooks | UXO Manager | Oversaw selection of qualified UXO personnel, established overall quality control program for UXO activities, addressed UXO-related issues as identified by field personnel. | B.S., General Studies; Graduate, Navy Explosive Ordnance Disposal (EOD) School - Indian Head, 25 years of military EOD experience, 6 years commercial UXO experience. | Yes |
| Glen Childers | SUXOS/UXO Technician III | Supervised the conduct of all on-site UXO-related operations. Prepared daily reports of field activities. Conducted daily site safety briefings. Escorted non-UXO personnel in suspect MEC areas. Determined location and identification of suspect MEC. Conducted detector-aided surface surveys. | Minimum of 8 years prior military EOD and or commercial UXO experience in munitions response actions or range clearance activities. (DDESB TP 18) | Yes |
| Mark Soha | UXO Technician III | Supervised the conduct of all on-site UXO-related operations. Prepared daily reports of field activities. Conducts daily site safety briefings. Escorted non-UXO personnel in suspect MEC areas. Determined location and identification of suspect MEC. Conducted detector-aided surface surveys. | Minimum of 8 years prior military EOD and or commercial UXO experience in munitions response actions or range clearance activities. (DDESB TP 18) | Yes |
| Steve Cassidy | UXO Technician III | Supervised the conduct of all on-site UXO-related operations. Prepared daily reports of field activities. Conducted daily site safety briefings. Escorted non-UXO personnel in suspect MEC areas. Determined location and identification of suspect MEC. Conducted detector-aided surface surveys. | Minimum of 8 years prior military EOD and or commercial UXO experience in munitions response actions or range clearance activities. [Department of Defense Explosive Safety Board (DDESB) Technical Paper (TP) 18] | Yes |

APPENDIX D-2

**DATA USABILITY ASSESSMENT -
 QUALIFICATION AND CERTIFICATION OF SURVEY TEAM
 NAS CECILE FIELD
 JACKSONVILLE, FLORIDA**

| Name | Title/Role | Responsibilities | Education and/or Experience Qualifications (Minimal) | Meets Requirements |
|--------------|-------------------|--|---|---------------------------|
| Frank Montes | UXOSO | Ensured that initial site-specific training is delivered for all field personnel before field activities begin and that all safety control measures have been established. Ensured that all UXO-specific certifications are filed on site and are available for Navy inspection. Enforced personnel limits and safety exclusion zones. Conducted, documented, and reported safety inspections. | Minimum of 8 years prior military EOD and or commercial UXO experience in munitions response actions or range clearance activities and applicable safety standards. (DDESB TP 18) | Yes |
| | UXOQC | Conducted quality control audits. Identified, documented and reported corrective actions. | Minimum of 8 years prior military EOD and/or commercial UXO experience in munitions response actions or range clearance activities and the transportation, handling and storage of munitions and commercial explosives. (DDESB TP 18) | Yes |

UXO = Unexploded Ordnance.

EOD = Explosive Ordnance Disposal.

MEC = Munitions and explosives of concern.

DDESB = Department of Defense Explosive Safety Board.

TP = Technical Paper.