

**WORK PLAN ADDENDA
FOR
FORT McCLELLAN
RAPID MUNITIONS RESPONSE SERVICES**

FORT McCLELLAN, ALABAMA

**FOR MILITARY MUNITIONS RESPONSE SERVICES (MMRS) AND
ORDNANCE AND EXPLOSIVES RELATED SERVICES (OERS)
SINGLE AWARD TASK ORDER CONTRACT (SATOC)**

Contract: W912DY-12-D-0049

Task Order 0010



Prepared for:

**US Army Engineering and Support Center,
Huntsville**

by:



900 Fort Street Mall STE 1700
Honolulu, HI 96813-3713

May 13, 2015

DRAFT
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Prepared By:

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Signed:
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Dawson-ZAPATA JV
Task Order Manager



Signed:
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February 25, 2015

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ACRONYMS AND ABBREVIATIONS

ATF	Federal Bureau of Alcohol, Tobacco, Firearms and Explosives
AHA	Activity Hazards Analysis
ASR	Archives Search Report
CORA	Certificate of Risk Acceptance
DAWSON-ZAPATA	DAWSON-ZAPATA JV
DDESB	Department of Defense Explosive Safety Board
DMM	Discarded Military Munitions
DoD	Department of Defense
EM	Engineering Manual
EOD	Explosive Ordnance Disposal
EP	Engineering Pamphlet
GIS	Geographic Information System
GPS	Global Positioning System
HE	High Explosive
HEAT	High-Explosive Anti-Tank
HFD	Hazardous Fragmentation Distance
IAW	In Accordance With
IME	Institute Makers of Explosives
MC	Munitions Constituents
MD	Munitions Debris
MEC	Munitions and Explosives of Concern
MGFD	Munition with the Greatest Fragmentation Distance
MLNWR	Mountain Longleaf National Wildlife Refuge
MFR	Maximum Fragmentation Range
Mm	millimeter
MMRP	Military Munitions Response Program
MMRS	Military Munitions Response Services
MPPEH	Material Potentially Presenting an Explosive Hazard
MSDs	Minimum Separation Distances
NEW	Net Explosive Weight
OERS	Other Explosives Related Services
OESS	Ordnance and Explosives Safety Specialist
PWS	Performance Work Statement
SATOC	Single Award Task Order Contract
SUXOS	Senior UXO Supervisor
TP	Technical Paper
TP	Target Practice
TSD	Team Separation Distance

USACE	US Army Corps of Engineers
USFWS	US Fish and Wildlife Service
UXOSO/QCS	UXO Safety Officer/ UXO Quality Control Specialist
UXO	Unexploded Ordnance
WP	Work Plan

This work plan addenda is intended to be used together with the Dawson-Zapata JV Corporate Work Plan and succinctly provides site specific information pertaining to an individual project.

1.0 INTRODUCTION

The objective of this project is to provide all Military Munitions Response Program (MMRP) services under Dawson-Zapata JV, LLC. Military Munitions Response Services (MMRS) and Other Explosives Related Services (OERS) Single Award Task Order Contract (SATOC) necessary to provide rapid munitions response services for the U.S. Fish and Wildlife Service (USFWS) Mountain Longleaf National Wildlife Refuge (MLNWR) located on former Fort McClellan in Anniston, Alabama (Figure 1).

1.1 PROJECT AUTHORIZATION

This project is authorized by Task Order 0010 of US Army Corps of Engineers Contract Number W912DY-12-D-0049, awarded to DAWSON-ZAPATA JV (DAWSON-ZAPATA) to provide Rapid Munitions Response Services in support of the USFWS MLNWR management activities in accordance with Engineering Pamphlet (EP) 75-1-2 and Engineering Manual (EM) 385-1-97 and errata sheets.

1.2 PURPOSE AND SCOPE

1.2.1 The purpose of this effort is to provide rapid munitions response services to support Munitions and Explosives of Concern (MEC) and Material Potentially Presenting an Explosive Hazard (MPPEH) (verified to contain an explosive hazard) destruction/ disposal; inspection and certification of Munitions Debris (MD) IAW the requirements of EM 200-1-15, EM 385-1-97, the Work Plan (WP) and WP addendum, US Army Corps of Engineers (USACE) Guidance Documents, Technical Manual 60A-1-1-31(or latest version) and the latest version of the Ft McClellan Explosive Safety Submission; and offsite disposal for MD. Work will be performed in accordance with the Performance Work Statement (PWS), Corporate Work Plan (WP), WP addenda, and all applicable standards.

1.2.2 Fort McClellan is a former United States Army installation located near Anniston, Alabama. The installation was named in honor of Major General George B. McClellan, General-in-Chief of the U.S. Army from 1861 to 1862. A 3,000 capacity Prison Internment Camp for prisoners of war was built during 1943 and nearly 500,000 soldiers were trained at Fort McClellan during WWII. Another activity, the U.S. Army Combat Developments Command Chemical Biological-Radiological Agency, moved to Fort McClellan in 1962. It was later disestablished along with the Chemical School in 1973. To meet the requirement for the Vietnam War, an Advanced Individual Training Infantry Brigade was activated in 1966. With the mission change, the fort was renamed the U.S. Army School/Training Center and Fort McClellan. After reestablishment in December, 1979, the U.S. Army Chemical School relocated here from Aberdeen, Maryland, and joined the Military Police School and the Training Brigade to make Fort McClellan the only military installation in the United States with three major missions.

1.3 WORK ORGANIZATION

The DAWSON-ZAPATA JV organization will include a Senior Unexploded Ordnance (UXO) Supervisor (Site Manager), UXO Safety Officer / UXO Quality Control Specialist (UXOSO/QCS), and up to three UXO teams that will consist of one UXO Technician III and two UXO Technicians II for the surface and subsurface clearance operations.

DAWSON-ZAPATA will provide at least two qualified UXO Technicians of the appropriate experience level (in accordance with EP 75-1-2) to provide support during rapid response activities. The actual number of support personnel required will be determined from onsite requirements consistent with the requirements of EP 75-1-2 and subject to Government approval. All MEC items and any Material Potentially Presenting an Explosive Hazard (MPPEH) items found to contain an explosive hazard after inspection will be destroyed by DAWSON-ZAPATA utilizing three personnel in accordance with EP 75-1-2.

2.0 TECHNICAL MANAGEMENT PLAN

2.1 PERFORMANCE OBJECTIVES

2.1.1 DAWSON-ZAPATA will provide rapid munitions response services for the U.S. Fish and Wildlife Service (USFWS) Mountain Longleaf National Wildlife Refuge (MLNWR) located on former Fort McClellan in Anniston, Alabama.

2.2 PROJECT MANAGEMENT

Our Task Order Manager and primary point-of-contact for these projects is Michael Winningham. As Task Order Manager, he is responsible for the entire project execution and coordination of team activities. He will serve as a liaison/planner/consultant with the Government staff for scheduling and execution of the operations. DAWSON-ZAPATA will prepare a comprehensive schedule of work to be performed, and subsequent updates in Microsoft Project format in accordance with DID WERS-016.02.

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3.0 FIELD INVESTIGATION PLAN

3.1 RAPID RESPONSE

DAWSON-ZAPATA will perform a rapid response to the project site at the request for support within 24 hours, to provide adequate personnel, equipment, and materials to assist with identification of unknown items, and to provide efficient and timely support for demolition of identified explosive hazards, meeting applicable regulations and guidance, to include but not limited to EM 385-1-97 and errata sheets.

DAWSON/ZAPATA will maintain a detailed accounting of all MEC items/components encountered. This accounting will include the amounts of MEC, nomenclature and condition [i.e., UXO, Discarded Military Munitions (DMM), explosive, Munitions Constituents (MC)], location via Global Positioning System (GPS) and depth of MEC, and disposition. The accounting system will also account for all demolition materials utilized to detonate MEC on site. DAWSON/ZAPATA will take digital photographs of identifiable MEC found during the investigation. This accounting will be included in the Letter Report.

Geographic Information System (GIS) and electronic submittals will be done IAW Section 3.5.13 of the WP. The Response Letter Report will follow the requirements in Section 3.3 of the PWS and be submitted within 21 calendar days after completion of the rapid response.

3.2 MUNITION WITH THE GREATEST FRAGMENTATION DISTANCE (MGFD)

The MGFD for any rapid response action will be determined by the type and size of MEC encountered and/or the item with the greatest fragmentation distance reportedly used at the site. This determination will be made with the assistance and concurrence of the government.

3.3 MINIMUM SEPARATION DISTANCES (MSDs)

3.3.1 The Minimum Separation Distance will be determined onsite based on the MGFD that has been identified in accordance with paragraph 3.2. During site operations, non-essential personnel will remain at least this distance from the operation at all times. This distance is based on the Hazard Fragmentation Distance (HFD) listed for the MEC item used to determine the MGFD in Department of Defense Explosive Safety Board (DDESB) Technical Paper (TP)-16 as determined from the DDESB secure website: <http://www.ddesb.pentagon.mil>.

3.3.2 The MSD for unintentional detonations for non-essential personnel is the greater of the HFD and K40 overpressure distance. The MSD for intentional detonations is the greater of the maximum fragment range and K328 overpressure distance. The Team Separation Distance (TSD) is based on the K40 distance. If an item with a greater HFD or K40 is found, the MSD and TSD will change in accordance with (IAW) DDESB TP 16. If indicated, the extended MSD will be immediately implemented, operations may continue, and an amendment to this Work Plan will be initiated immediately. Table 3-1 provides an example separation distance and will be updated if and/or when a MGFD for the rapid response action has been determined.

TABLE 3-1 EXAMPLE OF A MINIMUM SEPARATION DISTANCES

Project Site	Munition	Unintentional Detonations		Intentional Detonations		
		HFD (ft)	K40 (ft)	K328 (ft)	Maximum Fragmentation Range (ft)	MSD Using Engineering Controls (ft)
Ft. McClellan	30mm projectile, HEI PGU-13/B	120	22	184	825	200

*Distances based on the Fragmentation Database (associated with DDESB TP16)

3.4 MEC DISPOSAL

3.4.1 DAWSON-ZAPATA will be responsible for the destruction of all UXO encountered during the project utilizing qualified personnel and in accordance with all applicable guidelines and the Corporate Work Plan. All MEC will be disposed of by detonation utilizing standard demolition procedures as outlined in Technical Manual (TM) 60A-1-1-31 and the Corporate Work Plan at the end of the day. Prior to demolition (if required), DAWSON-ZAPATA will mobilize a third UXO-qualified individual to the site (UXO Tech III or higher). DAWSON-ZAPATA holds a Federal Bureau of Alcohol, Tobacco, Firearms and Explosives (ATF) License and is able to purchase, store, and use explosives for the destruction of MEC.

3.4.2 Munitions disposal/venting operations can be carried out once public routes have been determined to ensure that the necessary security post and engineering controls (if necessary) are in place to protect the public.

3.4.3 Prior to demolition operations, the UXO Tech III will notify all appropriate authorities (local police/fire department and Army Corps of Engineers Ordnance and Explosives Safety Specialist (OESS) personnel) and provide the following information:

- Type & quantity of demolition explosives
- Quantity and type of MEC
- Net Explosives Weight (NEW) of each demolition shot

3.4.4 Weather conditions will be monitored very close to ensure demolition operations do not take place during periods of heavy thunderstorm activity.

3.4.5 A demolition plan will be prepared in advance and all demolition preparation work will be done prior to delivery of explosives.

3.4.6 The explosives will be inventoried and transferred from the explosive storage area to the placarded Demo Truck. The shaped charges, binary explosives, and the detonating cord will be placed in a secured Type III day box. The blasting caps will be placed in an Institute Makers of Explosives (IME) cap box, secured and separated from the other explosives.

3.4.7 Immediately following the safety briefing road guards will be placed outside the Maximum Fragmentation Range (MFR). The firing point will be one security point and the other

will be the appropriate distance on the opposite side of the shot. Additional security will be posted depending on the access routes into exclusion zone.

3.4.8 The truck will then proceed to the pre-designated firing point. Explosive demolition procedures will be carried out in accordance with the Work Plan. Appropriate authorities will be notified when demolition activities are complete.

3.4.9 In the event demolition activities have to be cancelled, the SUXOS or UXO Tech III will notify the appropriate authorities. The explosives will be inventoried and returned to the explosive magazine. A security guard will be used to guard the MEC during after work hours until the demolition operations can be completed.

3.5 MD DISPOSAL

3.5.1 DAWSON/ZAPATA will handle and dispose of all MPPEH/MD in accordance with EM 200-1-15, EM 385-1-97, and DoDI 4160.62. We will provide offsite (i.e., off former Fort McClellan) disposal of material determined by inspection not to contain an explosive hazard (munitions debris and range related debris). We will destroy any item found to contain an explosive hazard after inspection. Only individuals qualified as UXO personnel by virtue of meeting the minimum qualifications outlined in DDESB TP-18, will perform these inspections. Form DD 1348-1A will be used as certification/verification documentation, and must show clearly the typed (or printed) names of the Certifier and the Verifier, organization, signature, and contractor's home office and field office phone number(s) of the persons certifying and verifying the MD. Local directives and agreements may supplement these procedures. In addition to the data elements required and any locally agreed-to directives, the DD 1348-1A form must indicate clearly the following information for MD:

- basic material content (type of metal; e.g., steel or mixed);
- estimated weight;
- unique identification of each of the containers and seals stated as being turned over;
- location where MD was obtained; and
- seal identification, if different from the unique identification of the sealed container.

The following certification/verification will be entered on each 1348-1A for turn over of munitions debris and will be signed by the SUXOS on properties where only munitions debris is being processed:

“This certifies and verifies that the material listed has been 100 percent inspected and to the best of our knowledge and belief, is inert and/or free of explosives or related materials.”

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4.0 QUALITY CONTROL PLAN

4.1 QUALITY CONTROL

Quality Control procedures will be followed in accordance with Section 4.8, Section 4.10, and Section 4.11 of the Corporate Work Plan.

4.2 QUALITY ASSURANCE

Successful performance will be measured by the work evaluated in terms of how well the requirements of the task order were satisfied, the extent to which the work performed follows the approach found in the contractor's technical proposal, clarity of documentation, and timeliness of scheduled task accomplishment. At the discretion of the COR or the Contracting Officer or Specialist, other government officials approved by the Contracting Officer or Specialist may be asked to evaluate a particular deliverable or set of deliverables.

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5.0 EXPLOSIVES MANAGEMENT PLAN

DAWSON-ZAPATA personnel will comply with the Explosives Management Plan in Section 5 of the Corporate Work Plan while providing Rapid Munitions Response Services for this project. Specific details of the Explosive Management for this work is listed below.

5.1 ACQUISITION

5.1.1 Order Quantity

DAWSON-ZAPATA will order an appropriate amount of demolition explosives for disposal operations in accordance with paragraph 5.1.2. These quantities will be sufficient to conduct demolition operations on multiple MPPEH/UXO items and additional explosives will be ordered as needed.

5.1.2 Acquisition Source and Method of Delivery

All explosives will be purchased and shipped from approved commercial vendors and the receipt of explosives will meet all requirements of paragraph 5.4 of the Explosives Management Plan.

5.1.3 Storage of Explosives

All explosives received and used for this project will be stored in approved Type II magazines located in an existing and previously used approved explosive storage compound. Storage will meet the requirements in paragraph 5.5 of the Explosive Management Plan. In the event the magazine is not available then just on-time demolition explosives will be delivered to the site by a local vendor.

5.1.4 Listing of Proposed Explosives

Class 1.4 explosives will be used whenever possible because they are safer to handle, less expensive to ship and easier to store. The demolition materials anticipated for use on the project are listed in Table 5-1.

TABLE 5-1 LIST OF PROPOSED EXPLOSIVES

Nomenclature	Description	Quantity	Hazard Division	Compatibility Group
Perforators	32 grams	TBD	1.4	S
Detonating Cord	80 grain/ft	TBD	1.4	D
Electric Detonators	No. 8	TBD	1.4	B
Binary Explosives	Mattanite	TBD	N/A	Flammable 3 Oxidizer 5.1
Note: Mattanite will be used as necessary and deflagrates at 23,000 fps which meets or exceeds the TNT equivalent. Mattanite will not be used when shots are developed for Sandbag mitigation.				

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6.0 ENVIRONMENTAL PROTECTION

See the Corporate Work Plan, Chapter 6.

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7.0 PROPERTY MANAGEMENT

See the Corporate Work Plan, Chapter 7.

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8.0 REFERENCES

See the Corporate Work Plan, Chapter 10.

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**APPENDIX A
PERFORMANCE WORK STATEMENT**

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FINAL
PERFORMANCE WORK STATEMENT (PWS)
FORT MCCLELLAN RAPID MUNITION RESPONSE SERVICES
FORT MCCLELLAN, ALABAMA
September 22, 2014

1.0 PERFORMANCE OBJECTIVE. The objective of this project is to provide all Military Munitions Response Program (MMRP) services under Dawson-Zapata JV, LLC. Military Munitions Response Services (MMRS) and Other Explosives Related Services (OERS) Single Award Task Order Contract (SATOC) necessary to provide rapid munitions response services for the U.S. Fish and Wildlife Service (USFWS) Mountain Longleaf National Wildlife Refuge (MLNWR) located on former Fort McClellan in Anniston, Alabama (Figure 1).

2.0 INTRODUCTION. The U.S. Army is required to meet the legal obligation of Public Law 107-314 Section 2821. This law transferred jurisdiction of Fort McClellan, Alabama from the Secretary of the Army to the Secretary of the Interior. It specifies that the Secretary of the Army shall continue to be responsible for unexploded ordnance, discarded military munitions, and munitions constituents on the real property transferred. Under the law, this obligation shall continue until the remediation process is complete. Munitions and Explosives of Concern (MEC) are a safety hazard and may constitute imminent and substantial danger to site personnel. All MEC and MPPEH found to contain an explosive hazard after inspection shall be destroyed on site. Applicable provisions of Chapter 29 of the Code of Federal Regulations (CFR) 1910.120 and Section C, Paragraph 2.2 of the Basic Contract (Applicable Laws and Regulations) apply to work of this task order. All activities involving work in areas potentially containing MEC and MPPEH hazards shall be conducted in full compliance with United States Army Corps of Engineers (USACE), United States Army Engineering and Support Center Huntsville (USAESCH), Department of the Army (DA), state and local requirements regarding personnel, equipment and procedures, and Department of Defense (DOD) Standard Operating Procedures (SOPs) and safety regulations.

2.1 Work Hours and Workweek. Consistent with Draft EP 1110-1-18, 3 April 2006, Chapter 15-3, Work Standards, the Contractor shall propose anticipated daily work hours. The Contractor shall consider factors such as prevailing weather and seasonal variations, available daylight, site conditions, amount and type of munitions expected, as well as project completion requirements when proposing project daily work hours and workweek schedules. Draft EP 1110-1-18, 3 April 2006, can be found at: <http://www.hnd.usace.army.mil/oew/policy/IntGuidRegs/EP1110-1-18.pdf>. Due to the inherent risk associated with MEC operations, the maximum proposed number of hours that the Contracting Officer may approve will be that MEC personnel shall be limited to a 60 hour workweek consisting of a maximum of 48-hours of MEC field operations. No single workday shall exceed ten (10) hours (total work hours). Twenty-four (24) hours must separate each workweek; however, work schedules of individual teams may be staggered to continue work on a daily basis if needed. These work restrictions apply only to MEC personnel performing digging or demolition work.

2.2 Site Location and History. The USFWS MLNWR is located on the former Fort McClellan in Anniston, Alabama. MEC investigations and interim removal actions have been ongoing in the area since 2001. The Army remains responsible for characterization and remediation of the property through a memorandum of agreement with the Department of Interior. The Army is responsible for providing rapid response services in the refuge should a MEC/MPPEH item be encountered during management activities. Available site specific information to include the Final Conventional Explosives Safety Submission, Ordnance and Explosives (OE) Removal Action for the Choccolocco Area U.S. Fish and Wildlife Land Transfer of Fort McClellan, Alabama, August 2003, as amended, can be found on the Fort McClellan website: <http://www.mcclellan.army.mil>.

2.3 Chemical Warfare Materiel (CWM). This site is not suspected of containing CWM. However, during work of this task order, if the Contractor identifies or suspects unknown liquid filled munitions, the Contractor shall perform the actions specified by Section C, Paragraph 2.7 of the Basic Contract.

2.4 Improved Conventional Munitions. The site is not suspected to contain Improved Conventional Munitions (ICM). If suspect ICM are encountered during any phase of site activities, which are not considered to be practice ICM, the Contractor shall perform the actions specified by Section C, Paragraph 2.8 of the Basic Contract. In the event that

practice ICM are encountered the Contractor shall contact the USAESCH OE Safety Office but may continue site activities.

2.5 Quality Control.

2.5.1 Task Order Quality Management: The Contractor shall implement quality control (QC) processes as defined in a Quality Control Plan (QCP). The Contractor is responsible for ensuring that all work under the contract is of the quality that meets or exceeds contract requirements. The QCP shall be detailed and comprehensive and shall cover all aspects of the task order activities impacting quality of deliverables and services. The Contractor's QCP shall be included in the Work Plan (WP). The Contractor shall ensure that QC documentation is maintained and provided in the Site Specific Final Report.

2.5.2 Quality Assurance: The Government will perform quality assurance (QA) of the Contractor's performance under this task order using the method of surveillance specified in the Quality Assurance Surveillance Plan (QASP). The specific surveillance tasks performed under the surveillance plan will be defined following acceptance of the QCP. The Government reserves the right to modify the surveillance tasks in the QASP at any time. The Government reserves the right to perform QA inspections at any time. QA failure can be defined as workmanship or work products not complying with the WP, Performance Work Statement (PWS), or not meeting project needs and/or objectives. Failure can also be defined as workmanship not complying with basic safety concepts and other industry safety practices. If any government QA review identifies a process failure or a work product failure, the Contractor will be issued a Corrective Action Request (CAR) or a form CEHNC 948. The Contractor shall provide full documentation detailing the root cause of the failure, why it was not detected in the Contractor's QC Program, and how the problem was corrected.

2.6 General Conditions: In accordance with Section C of the Basic Contract.

3.0 SPECIFIC TASKS: All tasks listed in this section shall be performed in accordance with the applicable requirements of Section 4.0 "GENERAL REQUIREMENTS" of this PWS. Methods to be used to achieve task order objectives at the specified level of performance shall be determined by the Contractor. The Contractor will be evaluated periodically during each of the following tasks to ensure compliance with this PWS and to document that quality objectives, delivery schedule, and the overall completion date are being met. Failure to adequately complete any service or submittal to at least a satisfactory level of quality or timeliness may result in a repeat of the service or submittal, a poor performance evaluation, and/or a reduction in payment to cover additional expenses incurred by the Government for the Contractor's delay.

3.1 (TASK 1) WORK PLAN (WP) SITE SPECIFIC ADDENDA. This is a **FIRM FIXED PRICE** task.

Objective: Submit acceptable site specific WP addenda in a timely and efficient manner that conforms to task requirements and applicable standards.

Performance Metric: The accuracy of the information provided within the documents as well as the number of submissions required to obtain Government acceptance of the document will be evaluated and shall be the basis of the Contractor's performance evaluation for this task.

Measurement Method: The Government will review the WP addenda for their ability to meet project objectives, and for proper and safe application of procedures and equipment. The Government will review the WP addenda and provide comments to the Contractor, which will require a written response from the Contractor and/or possible changes to the addenda. The comments will focus primarily on compliance with the PWS and all references contained within. These comments are to be addressed. Additional comments may be provided for the Contractor's review and consideration that relate to economy and efficiency, which the Contractor may choose to incorporate; however, the Contractor is responsible for any impact this may have, positive or negative. Performance is determined by the number of submissions required to attain an acceptable document in accordance with the attached Performance Requirements Summary for Performance Assessment Record (PAR).

Remedy: If non-compliance issues are noted, the Contractor shall summarize the actions to be taken and re-submit revised WP addenda at no additional cost to the Government.

Incentives/Disincentives:

- Fewer submissions result in cost savings to Contractor.
- Efficient task completion minimizes overall cost to Contractor.
- Affects overall performance evaluation.

Specific Task Requirements: The WP addenda shall compliment the Contractor's Corporate WP. The addenda shall be prepared in accordance with EM 200-1-5, EM 385-1-1, EM 385-1-97 and errata sheets, and the Data Item Descriptions (DIDs), as applicable. The intent is for the Corporate WP and WP addenda to collectively support all MMRP and ancillary services at the munitions response site in order to meet the objectives and requirements of this PWS. The addenda shall include a project schedule which gives anticipated commencement/completion of specific work requirements. The addenda shall augment the Corporate WP Quality Control Plan (QCP) with site specific quality control considerations, as applicable. WP addenda shall include addenda to the Corporate Accident Prevention Plan (APP) contained in the Corporate WP, as applicable. The addenda shall identify all Government furnished equipment (GFE) anticipated to be utilized at the project site, if any.

3.2 (TASK 2) RAPID MUNITIONS RESPONSE SERVICES. This is a **COST PLUS FIXED FEE** task.

Objective: The Contractor shall provide Rapid Munitions Response Services in support of the USFWS MLNWR management activities in accordance with EP 75-1-2 and EM 385-1-97 and errata sheets.

Performance Metric: Conformance with the Performance Work Statement will be determined by the Contractor's ability to adapt to the request for support within 24 hours, to provide adequate personnel, equipment, and materials to assist with identification of unknown items, and to provide efficient and timely support for demolition of identified explosive hazards, meeting applicable regulations and guidance, to include but not limited to EM 385-1-97 and errata sheets.

Measurement Method: The Contractor's conformance with the Performance Work Statement will be evaluated by the Government in accordance with the QASP.

Remedy: If noncompliance issues are noted, the contractor shall revise, re-submit, and/or redo work as applicable at no additional cost to the government.

Incentives/Disincentives:

- Affects overall performance evaluation.

Specific Task Requirements: The Contractor shall provide rapid munitions response services to support MEC and MPPEH (verified to contain an explosive hazard) destruction/ disposal; inspection and certification of MD IAW the requirements of EM 200-1-15, EM 385-1-97, the WP and WP addendum, USACE Guidance Documents, Technical Manual 60A-1-1-31(or latest version) and the latest version of the Ft McClellan Explosive Safety Submission; and offsite disposal or MD.

3.3 (TASK 3) RESPONSE LETTER REPORT. This is a **FIRM FIXED PRICED** task.

Objective. For each munitions response, prepare, submit and gain acceptance of a Letter Report in a timely and efficient manner that conforms to task requirements and applicable standards.

Performance Metric: The accuracy of the information provided within the document as well as the number of submissions required to obtain Government acceptance of the document will be evaluated and shall be the basis of the Contractor's performance evaluation for this task.

Measurement Method: The Government will review each Letter Report and provide comments to the Contractor, which will require a written response from the Contractor and/or possible changes to the Letter Report. Performance is determined by the number of submissions required to attain an acceptable document in accordance with the attached Performance Requirements Summary for Performance Assessment Record (PAR).

Remedy: If non-compliance issues are noted, the Contractor shall summarize the actions to be taken and re-submit a revised Letter Report at no additional cost to the Government.

Incentives/Disincentives:

- Fewer submissions result in cost savings to Contractor.
- Efficient task completion minimizes overall cost to Contractor.
- Affects overall performance evaluation.

Specific Task Requirements: The Contractor shall prepare a Response Letter Report in accordance with the general format presented in DID WERS-013.01 tailored to the specific aspects of the project for each rapid munitions response action. The contents of each Letter Report should adequately address all field work conducted in a concise and efficient manner, to include photographs and lessons learned. The Contractor shall include any GIS documentation in each Letter Report IAW DID WERS-007.01 (as applicable); however, GIS data files are not required to be submitted with the draft version of the Letter Reports (refer to Section 4.7 "Geographic Information System (GIS)" for additional information). The Contractor shall include a cover letter signed by an authorized person (preferably the person who signed the task order) of the company certifying, on behalf of the company, that the requirements of this task order have been met. If the review of the draft version of the Letter Report results in a request for major revisions, the document may be disapproved and will require resubmission.

4.0 GENERAL REQUIREMENTS: All work under Section 3.0 "SPECIFIC TASKS" of this PWS shall be performed in accordance with the following general requirements.

4.1 Permits and Licenses. The Contractor is responsible for obtaining all required permits and licenses to complete the project in accordance with Section C, Paragraph 2.1 of the Basic Contract.

4.2 MEC Disposal and Donor Explosives Storage. The Contractor shall be responsible for the destruction of all MEC encountered during project activities. The Contractor shall address in the Work Plan how the security of discovered MEC items is to be maintained until the items are destroyed.

4.3 Backfilling Excavations. All access/excavation/detonation holes shall be backfilled by the Contractor.

4.4 MEC Accountability. The Contractor shall maintain a detailed accounting of all MEC items/components encountered. This accounting shall include the amounts of MEC, nomenclature and condition (i.e., UXO, DMM, explosive MC), location and depth of MEC, and disposition. The accounting system shall also account for all demolition materials utilized to detonate MEC on site. The Contractor shall take digital photographs of identifiable MEC found during the investigation. This accounting shall be included in the Letter Report.

4.5 Disposal/Disposition of MPPEH. The Contractor shall handle and dispose of all MPPEH in accordance with EM 200-1-15 and EM 385-1-97. The Contractor shall provide offsite (i.e., off former Fort McClellan) disposal of material determined by inspection not to contain an explosive hazard (munitions debris and range related debris). The Contractor shall destroy any item found to contain an explosive hazard after inspection.

4.6 Vegetation Removal. The Contractor shall be responsible for performing all necessary tree/brush removal to an extent necessary to accomplish the objectives of this PWS. No area burning or vegetation removal is anticipated to be performed by the Government.

4.7 Geographic Information System (GIS). Any GIS that the Contractor produces in support of task order objectives shall be in accordance with DID WERS-007.01.

4.8 Project Management. The Contractor shall provide a single point of contact (POC), who is responsible for the entire project and coordination of team activities. The POC shall serve as a liaison/planner/consultant with the Government staff; advising the Government in MEC safety, as well as scheduling and execution of the operations. The POC shall attend project-planning meetings, as required, for the duration of the project. The POC shall perform project activities necessary to maintain project control, to include, but not be limited to the following:

a. **Coordination.** The Contractor shall be responsible for establishing protocol with the Fort McClellan Site manager for site access, communication requirements, and coordination or modification of schedules.

b. **Reports/Minutes, Record of Meetings.** The Contractor shall prepare and submit a report/minutes of all meetings attended in accordance with DID WERS-014.01.

c. **Telephone Conversations/Correspondence Records.** The Contractor shall keep a record of telephone conversations and written correspondence, in accordance with DID WERS-015.01.

4.9 Army Contractor Manpower Reporting

4.9.1 Implementation.

4.9.1.1 The Office of the Assistant Secretary of the Army (Manpower & Reserve Affairs) operates and maintains a secure Army data collection site where the contractor will report contractor manpower information (including subcontractor manpower information) required for performance of this contract. The contractor shall submit all the information required in the format specified at the following web address: PERFORMANCE WORK STATEMENT (Insert SITE NAME & Date) <https://cmra.army.mil/default.aspx>

4.9.1.2 The Contractors shall fill in the required information on the website, fields are shown below:

- (1) Contract Number
- (2) Delivery Order Number (if applicable)
- (3) Task Order Number (if applicable)
- (4) Requiring Activity Unit Identification Code (UIC)
- (5) Command
- (6) Contractor Contact Information
- (7) Federal Service Code (FSC)
- (8) Direct Labor Hours
- (9) Direct Labor Dollars
- (10) Location Information (where contractor and subcontractors (if applicable) performed the services).

4.9.1.3 Reporting period will be the period of performance not to exceed 12 months ending 30 September of each government fiscal year and must be reported by 15 October of each calendar year.

4.9.2 If your particular contract crosses fiscal years, 2 entries must be made to capture the data for the contract period; for example if the contract start date is 1 January 2007 and ends 31 December 2007, the data for the period from 1 January 2007 through 30 September 2007 shall be entered not later than 15 October 2007 and the period 1 October 2007 through 31 December 2007 shall be entered not later than 15 January 2008.

5.0 SUBMITTALS AND CORRESPONDENCE:

5.1 Computer Files. All text and spreadsheet files generated by the Contractor under this Contract shall be furnished to the Contracting Officer in Microsoft Office Suite 2007 compatible format. All schedules shall be generated in Microsoft Project. Refer to Section 4.7 “Geographic Information System (GIS)” for GIS data format requirements.

5.2 PDF Deliverables. In addition to the paper copies of submittals, uncompressed digital copies on CD ROM of all versions of submittals shall be provided in PDF format. The documents shall be complete with a linked table of contents, tables, photographs, graphs, figures, and appendices. PDF files shall be created from source documents whenever possible, and shall be provided without any security restrictions.

5.3 Review Comments. Various reviewers will have the opportunity to review submittals made by the Contractor under this contract. The Contractor shall review all comments received through the USAESCH Project Manager (PM) and evaluate their appropriateness based upon their merit and the requirements of the PWS. The Contractor shall issue to the USAESCH Project Manager a formal, annotated response to each in accordance with the established schedule in this PWS. The Contractor shall not non-concur with a comment without discussing the comment with the USAESCH PM. If the PM is not available then the Contractor shall contact the Technical Manager.

5.4 Identification of Responsible Personnel. Each report shall identify the specific members and title of the Contractor's staff and subcontractors that had significant and specific input into the preparation or review of the report.

5.5 Public Affairs. Refer to Section C, Paragraph 8.0 of the Basis Contract for disclosure of information requirements and restrictions. The Contractor shall refer all requests for information concerning site conditions to the USAESCH PM. Reports and data generated under this contract are the property of the DOD and distribution to any other source by the Contractor, unless authorized by the Contracting Officer, is prohibited.

5.6 Submittals. All documents which are required to be submitted to ADEM for review, comments and/or approval will be submitted in accordance with Consent Order No. 05-127-CHW (See Attachment 1). Unless indicated otherwise, the Contractor shall furnish copies of all submittals as specified below in the indicated quantities.

<u>ADDRESSEE</u>	<u>COPIES</u>	<u>CD</u>
Commander, U.S. Army Engineering and Support Center Huntsville Attn: Paula Henderson (OE-DC), 256-895-1269 4820 University Square Huntsville, AL 35816-1822	1	1
Commander, U.S. Army Engineering and Support Center Huntsville Attn: Janice Jamar (CEHNC-CT-E), 256-895-1343 4820 University Square Huntsville, AL 35816-1822	0	1
U.S. Army Transition Force ATTN: Ms. Lisa Holstein 681 Castle Avenue, Building 200 Fort McClellan, AL 36205-5000	4	4
Mountain Longleaf National Wildlife Refuge ATTN: Sarah Clardy 407 Baby Bains Gap Road Anniston, AL 36205	1	1

6.2 Data Item Descriptions (DIDs), <http://www.hnc.usace.army.mil/Missions/Engineering.aspx>.

6.3 US Army Corps of Engineers, *Amendment 6, Explosives Safety Submission (ESS) Munitions and Explosives of Concern Removal Action, Choccolocco Area of Fort McClellan, Alabama*, 16 February 2012.

Price Spreadsheet

For proposal purposes the Contractor shall provide the following price information.

Task, Title, Type, Description	Base Performance Period		
	Unit	Qty.	Price
1. Work Plan Addenda (FFP)	Ea	1	
2. Rapid Munitions Response Services (CPFF)	L.S	1	
3. Site Specific Final Report (FFP).	Ea	1	

* For proposal purposes the following additional price information shall be provided along with supporting information, as applicable:

Description	Qty.	Unit	Unit Price
Per qualified UXO Tech II personnel man-hour	52	Man-hour	
Per qualified UXO Tech II personnel man-hour with 4% hazard pay	64	Man-hour	
Per qualified UXO Tech II personnel man-hour with 8% hazard pay	12	Man-hour	
Per qualified UXO Tech III personnel man-hour	52	Man-hour	
Per qualified UXO Tech III personnel man-hour with 4% hazard pay	64	Man-hour	
Per qualified UXO Tech III personnel man-hour with 8% hazard pay	12	Man-hour	
Per qualified SUXOS	24	Man-hour	
Per UXOQCS/UXOSO dual hat.	24	Man-hour	
Mobilization/Demobilization (round trip)	6	Ea.	
MEC Demolition (all materials, equipment, and supplies)	2	Ea.	

Performance Requirements Summary for Performance Assessment Record (PAR)

	Exceptional	Very Good	Satisfactory	Marginal	Unsatisfactory
PAR Category: Quality of Product or Service					
<i>Performance indicator: Document reviews</i>					
<i>Draft</i> Plans, Reports, and documents	All contract-milestone documents	No substantive comments (i.e. limited to	One or more documents or subplans	One or more documents or subplans required	One or more documents or subplans did not

	Exceptional	Very Good	Satisfactory	Marginal	Unsatisfactory
[Plans, documents and reports are considered draft until accepted as final by the Government].	accepted as submitted.	grammar, spelling, terminology) to any of the documents or subplans, but a few exceptions were noted and corrected by change pages.	required revisions to be resubmitted for approval prior to proceeding. However, no document or subplan required more than one backcheck, all original comments were resolved satisfactorily.	revisions to be resubmitted for approval prior to proceeding. Two backchecks were required on one or more documents or subplans before original comments were resolved satisfactorily.	comply with contract requirements, or one or more documents or subplans required more than two backchecks before original comments were resolved satisfactorily, or one or more documents or subplans were rejected.
Performance indicator: Project Execution					
Process Compliance	Zero Corrective Action Requests (CAR).	1 CARs for non-critical violations to WP requirements.	2 CARs for non-critical violations and/or Zero CAR for critical violation.	3 CARs for non-critical violations and/or 1 CAR for critical violations.	>3 CARs for non-critical violations and/or >1 CARs for critical violations, or any unresolved CARs.
Task Completion			All final data and QC documentation submitted and accepted.		Final data and QC documentation submitted but not accepted.
PAR Category: Schedule					
Performance indicator: Timely completion of tasks					
<i>Final</i> Plans and Reports, project milestones, T.O. invoices.	All document submittals and task order milestones and invoices complete and accepted by T.O date, project closed out/final invoice approved ahead of schedule.	Project closed out/final invoice accepted ahead of schedule.	Project closed out/final invoice accepted on T.O. date.	Project closed out/final invoice accepted within 30 calendar days after T.O. date.	Project closed out/final invoice accepted more than 30 calendar days after T.O. date.
Project status reports accurate.			Yes		No
Performance indicator: Impacts to schedule					
Impacts caused by Contractor or other causes			Yes		No

	Exceptional	Very Good	Satisfactory	Marginal	Unsatisfactory
identified, in writing to USAESCH CO/PM, in a timely manner to apply acceptable corrective actions.					
PAR Category: Cost Control (Not Applicable for Firm Fixed Price)					
Performance indicator: No unauthorized cost overruns					
Unauthorized cost overruns			No		Yes
Total Project Costs	Total contract invoices less than 98% of T.O. authorized amount	Total contract invoices greater than 98% but less than 99.99% of T.O. authorized amount.	Total contract invoices between 99.99% and 100% of T.O. authorized amount.	Total contract invoices greater than 100% but less than 105% of T.O. authorized amount.	Total contract invoices greater than or equal to 105% of T.O. authorized amount.
Performance indicator: Monthly cost report					
Monthly cost reports accurate			Yes		No
Performance indicator: Impacts to cost					
Impacts caused by Contractor or other causes identified, in writing to USAESCH CO/PM, in a timely manner to apply acceptable corrective actions.			Yes		No
PAR Category: Business Relations					
Performance indicator: Met contractual obligations					
Corrective Actions taken were timely and effective (Refer to CARs issued to Contractor)			Yes		No
Performance indicator: Professional and Ethical Conduct					
Meetings and correspondences with Public, project delivery team and other stakeholders	Zero formal, grievances, or letters of concern AND one or more unsolicited letters of commendation.		Zero formal grievances or letters of concern.	One formal grievance or letter of concern that was resolved through negotiation.	More than one formal grievances or letters of concern that were resolved through negotiation OR removal of one or more project personnel as a

	Exceptional	Very Good	Satisfactory	Marginal	Unsatisfactory
					results of a formal grievance or letter of concern.
Performance indicator: Customer has overall satisfaction with work performed					
Customer survey results for rating period	4.0-5.0	3.0-3.9	2.0-2.9	1.0-1.9	<1.0
Performance indicator: Personnel responsive and cooperative					
Key personnel responsive, and cooperative	Always.		Most Times.		Almost Never.
PAR Category: Management of Key Personnel and Resources					
Performance indicator: Personnel knowledgeable and effective in their areas of responsibility					
Personnel assigned to tasks	All personnel proposed by Contractor were assigned to project, some personnel were substituted by higher qualified individuals.		All personnel proposed by Contractor were assigned to project, some personnel were substituted by equally qualified individuals.	All personnel proposed by Contractor were assigned to project, some personnel were substituted by equally qualified individuals, Letter of reprimand received for personnel conduct from USAESCH.	All personnel proposed by Contractor were assigned to project, some personnel were substituted by lesser qualified individuals or USAESCH requested, in writing, removal of assigned personnel for poor performance.
Performance indicator: Personnel able to manage resources efficiently					
Instances when resource management had negative impact on project execution	0	1-2	3-4	5-6	>6
PAR Category: Safety					
Performance indicator: Accidents and Violations					
AR 385-10 Accidents *, Contractor at fault.	No accidents, regardless of class.	No accidents, regardless of class.	No Class A or B accidents, no more than 1 non-explosive related Class C accident, or no more than 2 non-explosive related Class D accidents.	No Class A accidents, no more than 1 non-explosive related Class B accident, no more than 2 non-explosive related Class C accidents, or no more than 3 non-explosive related Class D accidents.	Any Class A accident, or any explosive related accident regardless of class.

	Exceptional	Very Good	Satisfactory	Marginal	Unsatisfactory
Major safety violations	None.	None	No more than 1 non-explosive related major safety violation.	No more than 2 non-explosive related major safety violations.	Any violation of procedures for handling, storage, transportation, or use of explosives IAW the WP, and applicable Federal, State and local regulations or 3 or more non-explosive related major safety violations.
Minor safety violations.	None	No more than 1 minor safety violation.	No more than 2 minor safety violations.	No more than 3 minor safety violations.	More than 3 minor safety violations.

* Classes of Accidents: Class A, B, C, and D as defined by AR 385-10, latest revision.

- **Class A:** Fatality or permanent total disability (Government Civilian, Military Personnel, and/or Contractor), or >\$2,000,000 property damage.

- **Class B:** Permanent partial disability or inpatient hospitalization of 3 or more persons (Government Civilian, Military Personnel, and/or Contractor), \$500,000 < \$2,000,000 property damage.

- **Class C:** Lost Workday (Contractor) or Lost Time (Government Civilians), \$50,000 < \$500,000 property damage.

- **Class D:** \$2000 < \$50,000 property damage.

The following guidelines are provided for issuing ratings that are subjective in nature, these ratings will be supported by the weight of evidence documented during the government's surveillance efforts:

Exceptional: Performance *meets* contractual requirements and *exceeds many* to the Government's benefit. The contractual performance of the element or sub-element being assessed was accomplished with *few minor problems* for which corrective actions taken by the Contractor were *highly effective*.

Very Good: Performance *meets* contractual requirements and *exceeds some* to the Government's benefit. The contractual performance of the element or sub-element being assessed was accomplished with *some minor problems* for which corrective actions taken by the Contractor were *effective*.

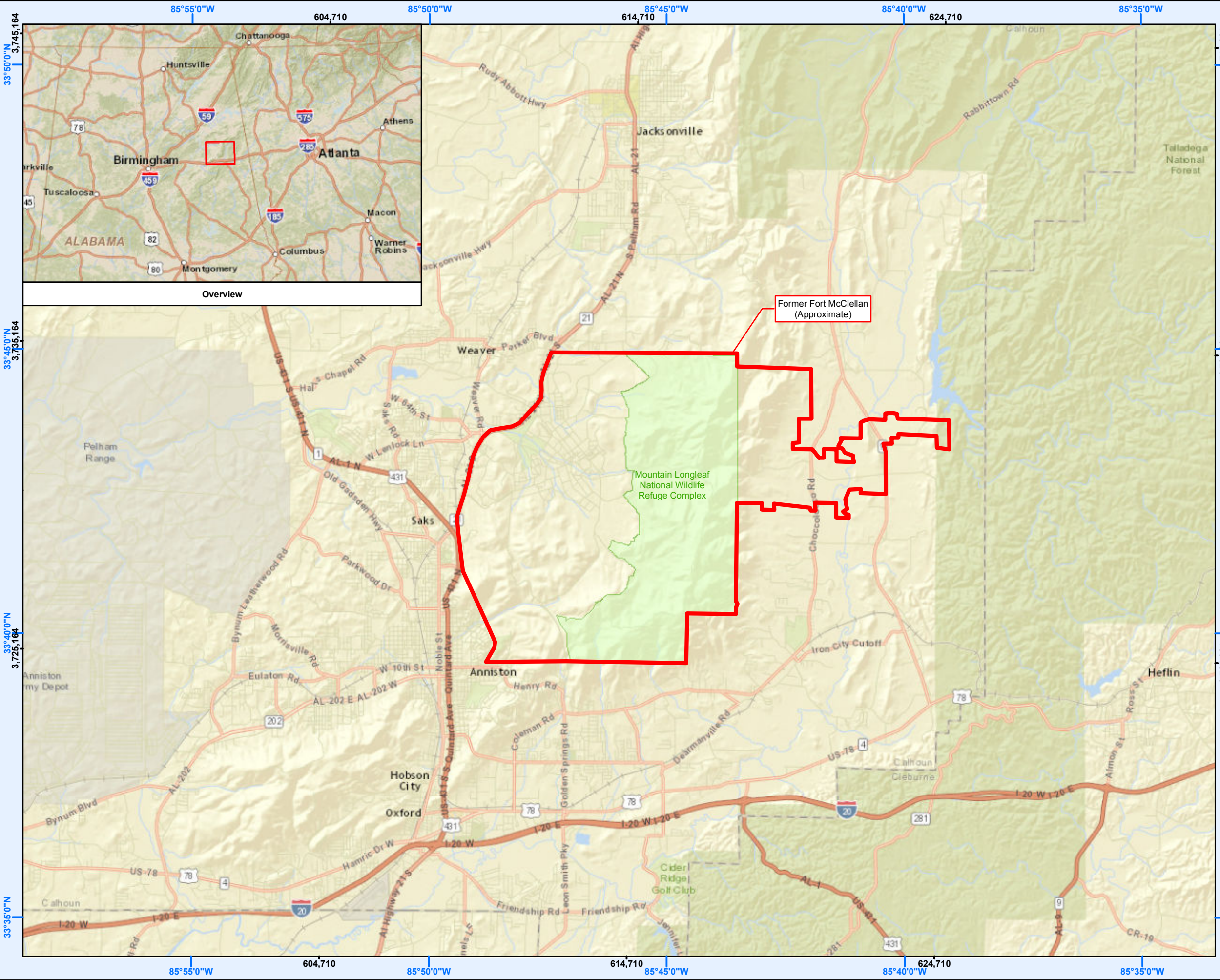
Satisfactory: Performance *meets* contractual requirements. The contractual performance of the element or sub-element contains *some minor problems* for which corrective actions taken by the Contractor *appear or were satisfactory*.

Marginal: Performance *does not meet all* contractual requirements. The contractual performance of the element or sub-element being assessed reflects a *serious problem* for which the Contractor has *not yet identified corrective actions*. The Contractor's proposed actions appear only *marginally effective or were not fully implemented*.

Unsatisfactory: Performance *does not meet most* contractual requirements and *recovery is not likely* in a timely manner. The contractual performance of the element or sub-element contains *serious problems* for which the Contractor's corrective actions *appear or were ineffective*.

**APPENDIX B
SITE MAPS**



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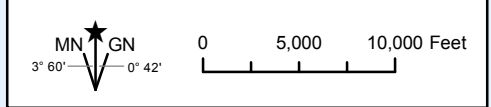


Rapid Munitions Response Services
Fort McClellan
Fort McClellan, AL

Project Number	Date	Figure
R20189	DECEMBER 2014	1

KEY

-  Former Installation Boundary (Approximate)
-  FWS National Wildlife Refuge



Source(s)
ZAPATA

Projection
WGS 1984 UTM Zone 16N
Note: Main Data Frame Rotated to True North

Note(s)
Engineering scale may only be accurate on a map size of 11 x 17

Magnetic Declination Date: 12/10/2014
Magnetic Declination Shifting by 0° 6' W per year

Checked By	Engineering Scale	Drawn By
XXX	1" = 10,000'	XXX



Overview

Former Fort McClellan
(Approximate)

Mountain Longleaf
National Wildlife
Refuge Complex

**US Army Corps
of Engineers**

**APPENDIX C
POINTS OF CONTACT**

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AGENCY	NAME	TELEPHONE
Emergency Contacts		
Police	No Contact Name	911
Fire	No Contact Name	911
EMS/Ambulance	No Contact Name	911
Fort McClellan and Volunteer Army Ammunition Plant		
BRAC Environmental Coordinator	Mr. Scott Bolton	256-848-3847
Medical Services		
Trauma Hospital	Jacksonville Medical Center	256-782-4538
Routine Care Clinic	TBD	TBD
Zapata Physician	Dr. Donald Whorton	510 748-6900
US Army Corps of Engineers		
Project Manager	Ms. Paula Henderson	256- 655-1239
Contracting Officer	Ms. Janice Jamar	256- 895-1343
Chief of Safety	Mr. Wayne Galloway	256- 895-1582
OESS	TBD	
DAWSON-ZAPATA		
Project Manager	Michael Winningham	704-358-8240
Corporate Safety Officer	Mr. George Dwiggins	704-358-8240

**APPENDIX D
ACCIDENT PREVENTION PLAN**

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ACCIDENT PREVENTION PLAN (APP) ADDENDA

*WORK PLAN ADDENDA FOR RAPID MUNITIONS RESPONSE SERVICES
FT. MCCLELLAN
ANNISTON, AL*

May 13, 2015

Prepared for:

US Army Engineering and Support Center,
Huntsville

by:

DAWSON-ZAPATA JV LLC
900 FORT STREET MALL STE 1700
HONOLULU HI 96813-3713

ACCIDENT PREVENTION PLAN ADDENDA

This Accident Prevention Plan Addenda for the Work Plan Addenda at Ft. McClellan, Contact, Contract No.: W912DY-12-D-0049, Task Order No.: 0010.

The signatures below attest that this Accident Prevention Plan has been prepared and reviewed by qualified personnel, and that it has been approved for implementation during work on the project described above.

Approved by: _____
George A. Dwiggins, Ph.D.
Certified Industrial Hygienist
Certified Safety Professional
704.358.8240



25 Feb 2015
Date

Approved by: _____
Michael L. Winningham
Vice President, Munitions Response Services
704.358.8240

25 Feb 2015
Date

Concurrence by: _____
Chuck Wentzel
UXO Safety Officer
704.358.8240

25 Feb 2015
Date

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3.1 <u>ZAPATA PERSONNEL</u>	D-8
<u>4.0 TRAINING</u>	D-9
<u>5.0 SAFETY AND HEALTH INSPECTIONS</u>	D-10
<u>6.0 EXPECTATIONS, INCENTIVE PROGRAMS, AND COMPLIANCE</u>	D-11
<u>7.0 ACCIDENT REPORTING</u>	D-12
<u>8.0 EMERGENCY AND NON-EMERGENCY MEDICAL TREATMENTS</u>	D-13
<u>9.0 PERSONAL PROTECTIVE EQUIPMENT</u>	D-14
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ATTACHMENTS

- Attachment 1 Site Safety and Health Plan
- Attachment 2 Sample Forms (Not Used)
- Attachment 3 Activity Hazard Analyses for Phases of Work (Not Used)
- Attachment 4 Heat Stress: Environmental Assessment and Management of Exposure (Not Used)
- Attachment 5 Cold Stress: Environmental Assessment and Management of Exposure (Not Used)
- Attachment 6 List of Chemical Products with Associated Material Safety Data Sheets (Not Used)
- Attachment 7 Images of Dangerous Animals and Plants at the Project Site (Not Used)

1.0 INTRODUCTION

This document and the accompanying site safety and health plan (SSHP, Attachment 1) describe the safety program that will be implemented by DAWSON-ZAPATA during work under contract number W912DY-12-D-0049 (Delivery Order 0010) at Ft. McClellan, Alabama. The project involves identification of unknown items and disposal of munitions and explosives of concern (MEC) and munitions debris (MD).

Work will consist of the following phases, each of which is discussed in detail in Attachments 1 and 3:

- Mobilization and site preparation,
- Identification of unknown items,
- Disposal of MEC and munitions debris, and
- Demobilization.

All activities involving work in areas potentially containing unexploded ordnance hazards shall be conducted in full compliance with safety standards of the U.S. Army Corps of Engineers, the Department of the Army, and the Department of Defense, and with state and local safety requirements regarding personnel, equipment, and procedures.

2.0 COMMITMENT TO SAFETY

See Section 2 of the Corporate Work Plan APP.

3.0 PROJECT PARTICIPANTS AND LINES OF AUTHORITY

A detailed organization chart for project management is found in Figure 2-1 in the accompany Corporate Work plan document.

3.1 ZAPATA PERSONNEL

The following ZAPATA employees will have critical roles in the safe execution of this project:

Task Order Manager: Michael L. Winningham

Site Manager (Senior UXO Supervisor, or SUXOS): TBD

Manager of Health and Safety: George A. Dwiggin, Ph.D., CIH, CSP

Site Safety Officer (UXO Safety Officer, or UXOSO): TBD

In matters related to workplace health and safety, the UXOSO will report directly to the manager of health and safety, who reports to corporate management at the most senior level. Routine contact between the UXOSO and the manager of health and safety is anticipated during the course of the project.

4.0 TRAINING

See Section 4 of the Corporate Work Plan APP.

5.0 SAFETY AND HEALTH INSPECTIONS

See Section 5 of the Corporate Work Plan APP.

6.0 EXPECTATIONS, INCENTIVE PROGRAMS, AND COMPLIANCE

See Section 6 of the Corporate Work Plan APP.

7.0 ACCIDENT REPORTING

See Section 7 of the Corporate Work Plan APP.

8.0 EMERGENCY AND NON-EMERGENCY MEDICAL TREATMENTS

See Section 8 of the Corporate Work Plan APP.

9.0 PERSONAL PROTECTIVE EQUIPMENT

See Section 9 of the Corporate Work Plan APP.

10.0 REQUIRED PLANS, PROGRAMS, AND PROCEDURES

See Section 10 of the Corporate Work Plan APP.

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**ATTACHMENT 1
SITE SAFETY AND HEALTH PLAN**

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ATTACHMENT 1
SITE SAFETY AND HEALTH PLAN

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4.0 TRAINING	D-24
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6.0 MEDICAL SURVEILLANCE	D-26
7.0 EXPOSURE MONITORING AND AIR SAMPLING.....	D-27
8.0 HEAT STRESS AND COLD STRESS	D-28
9.0 SAFETY PROCEDURES, CONTROLS, AND PRACTICES.....	D-29
10.0 SITE CONTROL	D-30
11.0 PERSONNEL AND EQUIPMENT DECONTAMINATION	D-31
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FIGURE D-1 SITE MAP	D-21
FIGURE D-2 HOSPITAL ROUTE.....	D-33

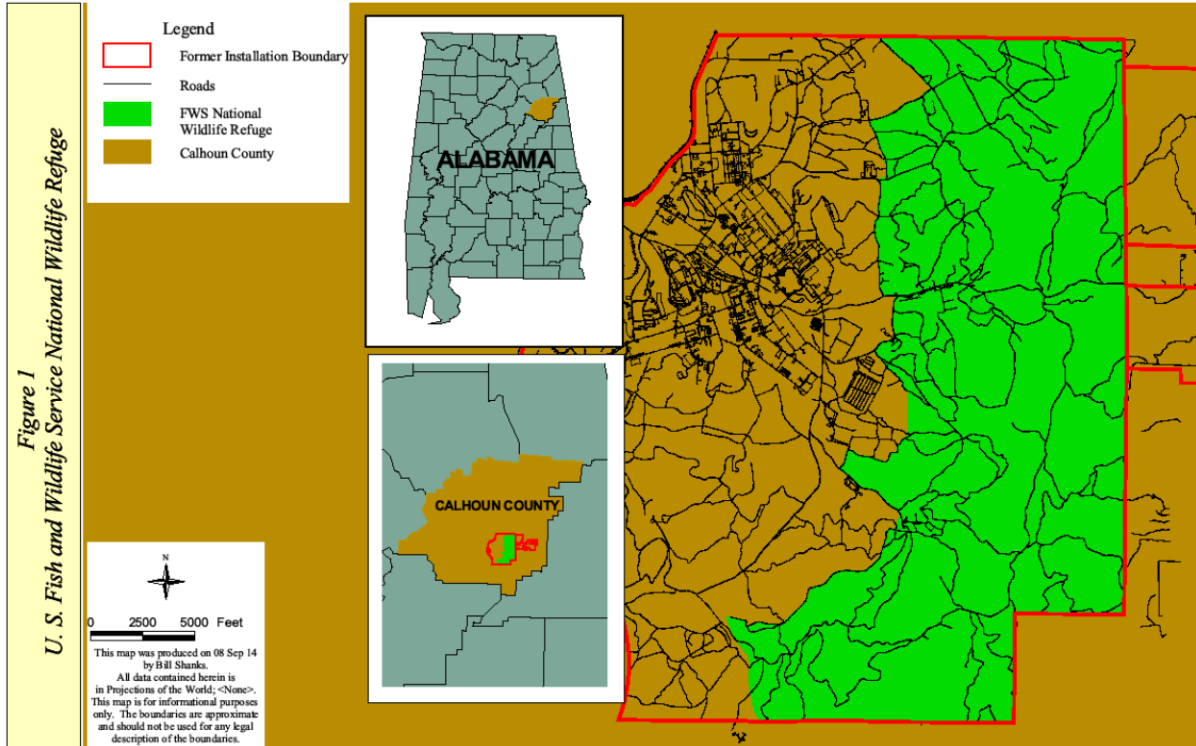
1.0 SITE DESCRIPTION

Zapata Incorporated (ZAPATA) will conduct rapid response action activities, at Ft. McClellan, Alabama. In addition, ZAPATA will dispose of munitions and explosives of concern (MEC) and munitions debris, and conduct any needed subsequent support to rapid response action activities on the site. Ft. McClellan is a former military base located in Calhoun County in the State of Alabama.

The site location layout map is found in Figure D-1 on the page that follows.

FIGURE D-1 SITE MAP

Figure D1 – The map showing the location of Ft. McClellan in Calhoun County, main roads and the Fish and Wildlife Service National Wildlife Refuge area is provided below.



2.0 HAZARD ANALYSIS AND RISK ASSESSMENT

This information is found in Section 2.0 of the Corporate Work Plan SSHP.

3.0 STAFF ORGANIZATION, QUALIFICATIONS, AND RESPONSIBILITIES

This information is found in Section 3.1 of the Accident Prevention Plan.

4.0 TRAINING

This information is found in Section 4.0 of the Corporate Work Plan Accident Prevention Plan. Training certificates will be maintained in a file on the site by the UXOSO.

5.0 PERSONAL PROTECTIVE EQUIPMENT (PPE)

This information is found in Section 9.0 of the Corporate Work Plan Accident Prevention Plan.

6.0 MEDICAL SURVEILLANCE

This information is found in Section 6.0 of the Corporate Work Plan SSHP.

7.0 EXPOSURE MONITORING AND AIR SAMPLING

This information is found in Section 7.0 of the Corporate Work Plan SSHP.

8.0 HEAT STRESS AND COLD STRESS

This information is found in Section 8.0 of the Corporate Work Plan SSHP.

9.0 SAFETY PROCEDURES, CONTROLS, AND PRACTICES

This information is found in Section 9.0 of the Corporate Work Plan SSHP.

10.0 SITE CONTROL

This information is found in Section 10.0 of the Corporate Work Plan SSHP.

11.0 PERSONNEL AND EQUIPMENT DECONTAMINATION

Decontamination procedures are discussed in Sections 9.9 and 10.2 of the Corporate Work Plan SSHP.

12.0 SITE EMERGENCIES













The UXOSO will notify the corporate manager of health and safety and the ZAPATA project manager as soon as possible after any site emergency occurs.

A partial list of emergency telephone numbers is found in Table 12-1. The UXOSO will add names and numbers as appropriate. The route to the nearest hospital is found in Figure D-2.

TABLE 12-1 EMERGENCY TELEPHONE NUMBERS

Agency	Number
Emergency Hospital – Jacksonville Medical Center	256-782-4538
Ambulance	911
Police	911
Fire	911
George A. Dwiggin, ZAPATA Manager of Health and Safety	704-378-4913
WorkCare (administrator of the ZAPATA medical program)	510-748-6900
USAESCH Project Manager	256-895-1574
USAESCH Chief of Safety	256-895-1582
CHEMTREC (Hazardous Chemical Information Hotline)	800-424-9300

FIGURE D-2 HOSPITAL ROUTE

	1. Start out going southeast on Lennox Ave toward Jimmy Parks Blvd.	0.02 mi
	2. Take the 1st right onto Jimmy Parks Blvd. <ul style="list-style-type: none"> • If you reach 8th Ave you've gone about 0.2 miles too far 	0.2 mi
	3. Enter next roundabout and take the 2nd exit onto Headquarters Rd.	0.2 mi
	4. Turn left onto Buckner Dr. <ul style="list-style-type: none"> • If you are on Headquarters Rd and reach Powers Ave you've gone about 0.1 miles too far 	0.3 mi
	5. Turn slight right onto 20th St.	0.4 mi 1 minute
	6. Turn left onto Coxwell Ave.	0.2 mi
	7. Turn right onto Summerall Gate Rd.	1.2 mi 2 minutes
 	8. Turn right onto McClellan Blvd / AL-21. Continue to follow AL-21. <ul style="list-style-type: none"> • AL-21 is 0.5 miles past Bellair Rd 	6.8 mi 8 minutes
 	9. Make a U-turn at Henry Rd SW onto Pelham Rd S / AL-21. <ul style="list-style-type: none"> • If you reach Branscomb Dr SW you've gone about 0.1 miles too far 	0.01 mi
	10. 1701 PELHAM RD S is on the right. <ul style="list-style-type: none"> • If you reach Church Ave SE you've gone about 0.2 miles too far 	•

13.0 LOGS, REPORTS, AND RECORD KEEPING

This information is found in Section 13.0 and Attachment 2 of the Corporate Work Plan SSHP.

ACTIVITY HAZARDS ANALYSIS

Overall Risk Assessment Code (RAC)
(Use highest code)

M

Date: 23 February 2015 Project: W912DY-12-D-0049 (0010)

Activity: Mobilization/Demobilization

Activity Location: Fort McClellan, Alabama

Prepared By: George A. Dwiggin, Ph.D., CIH, CSP

Risk Assessment Code Matrix

Severity	E = Extremely High Risk	Probability				
	H = High Risk	Frequent	Likely	Occasional	Seldom	Unlikely
	M = Moderate Risk	E	E	H	H	M
	L = Low Risk	E	H	H	M	L
	Catastrophic	H	M	M	L	L
Negligible	M	L	L	L	L	

Add Identified Hazards		JOB STEPS	HAZARDS	ACTIONS TO ELIMINATE OR MINIMIZE HAZARDS	RAC
X	Removal and transport of equipment, supplies and instruments from the site	Slips, trips, and falls; lacerations from sharp objects; pinched or crushed fingers, feet, and toes; eye injury from flying projectiles or impacts with tree limbs, head injury from impacts; sunburn.	Basic PPE will consist of a hardhat (around mechanical equipment), safety glasses with side shields or comparable side protection, steel-toe work boots or boots offering comparable protection of the toes, leather work gloves; and a basic work outfit offering some protection against abrasion and sunlight. The UXOSO will require good housekeeping practices.	M	
X	Removal and transport of equipment, supplies and instruments from the site	Musculo-skeletal injury from heavy lifting or strenuous exertions.	The UXOSO will require proper lifting techniques and enforce a 40 pound limit on any unassisted lift.	M	
X	Removal and transport of equipment, supplies and instruments from the site	Heat stress / Cold stress.	The UXOSO will monitor conditions and implement controls in ZAPATA Procedures HS-M-12 and HS-M-13, as appropriate. (The UXOSO will keep a copy of HS-M-12 and HS-M-13 on the site.)	M	
X	Removal and transport of equipment, supplies and instruments from the site	Biological hazards (including poisonous plants and animals)	The UXOSO will require avoidance of wild animals and – to the extent feasible – avoidance of poisonous plants, insects, spiders, etc.. He will maintain a supply of insect repellent and encourage its use.	M	
X	Removal and transport of equipment, supplies and instruments from the site	Inclement weather	The UXOSO will remain aware of weather forecasts and plan for inclement weather during project work. If inclement weather appears imminent, the safety officer will direct site workers to halt work and to take refuge in vehicles or nearby buildings.	M	
X	Removal and transport of equipment, supplies and instruments from the site	Noise	The UXOSO will require the use of earplugs whenever employees work around noisy operations.	M	

ACTIVITY HAZARDS ANALYSIS

JOB STEPS	HAZARDS	ACTIONS TO ELIMINATE OR MINIMIZE HAZARDS	RAC	
X	Removal and transport of equipment, supplies and instruments from the site	Vehicle accidents	The UXOSO will confirm that only drivers qualified under the ZAPATA fleet safety program are permitted to drive vehicles. The UXOSO will enforce appropriate vehicle safety rules, including a reasonable speed limit, if one is not imposed by site authorities.	M
X	Removal and transport of equipment, supplies and instruments from the site	Unauthorized site visitors	The UXOSO will enforce an exclusion zone sufficient to prevent entry of unauthorized personnel into a potentially dangerous area.	M

Add Items

EQUIPMENT	TRAINING	INSPECTION	
X	Various vehicles	All site workers will be briefed on the requirements of the site safety plan, including emergency plans. At least two site workers present at all times must have current first aid and CPR certifications. The UXOSO will conduct a daily safety briefing. The UXOSO will confirm that workers who drive vehicles for ZAPATA business are on the list of qualified drivers.	Daily check for adequacy of site communication. Daily inspection of fire extinguishers and first aid kits. Daily activity inspections by UXOSO. Daily vehicle inspections, in accordance with the ZAPATA fleet-safety program. Inspect all hand tools prior to use and repair or replace damaged tools.

Involved Personnel:

SUXOS, UXOSO, and additional DAWSON-ZAPATA JV employees.

Acceptance Authority (digital signature):



ACTIVITY HAZARDS ANALYSIS

Overall Risk Assessment Code (RAC)
(Use highest code)

M

Date: 23 February 2015 Project: W912DY-12-D-0049 (0010)

Activity: Disposal (Explosive Demolition) Operations

Activity Location: Fort McClellan, Alabama

Prepared By: George A. Dwiggin, Ph.D., CIH, CSP

Risk Assessment Code Matrix

S e v e r i t y	E = Extremely High Risk H = High Risk M = Moderate Risk L = Low Risk	Probability				
		Frequent	Likely	Occasional	Seldom	Unlikely
	Catastrophic	E	E	H	H	M
	Critical	E	H	H	M	L
	Marginal	H	M	M	L	L
Negligible	M	L	L	L	L	

Add Identified Hazards		JOB STEPS	HAZARDS	ACTIONS TO ELIMINATE OR MINIMIZE HAZARDS	RAC
X		Establishment of demolition site(s) Accumulation of ordnance items at demolition site(s) Destruction of ordnance items by means of explosives	Slips, trips, and falls; lacerations from sharp objects; pinched or crushed fingers, feet, and toes; eye injury from flying projectiles or impacts with tree limbs, head injury from impacts; sunburn.	Basic PPE will consist of a hardhat (around mechanical equipment), safety glasses with side shields or comparable side protection, work boots, leather work gloves; and a basic work outfit offering some protection against abrasion and sunlight. The UXOSO will require good housekeeping practices.	M
X		Establishment of demolition site(s) Accumulation of ordnance items at demolition site(s) Destruction of ordnance items by means of explosives	Musculo-skeletal injury from heavy lifting or strenuous exertions.	The UXOSO will require proper lifting techniques and enforce a 40 pound limit on any unassisted lift.	M
X		Establishment of demolition site(s) Accumulation of ordnance items at demolition site(s) Destruction of ordnance items by means of explosives	Heat stress / Cold stress.	The UXOSO will monitor conditions and implement controls in ZAPATA Procedures HS-M-12 and HS-M-13, as appropriate. (The UXOSO will keep a copy of HS-M-12 and HS-M-13 on the site.)	M
X		Establishment of demolition site(s) Accumulation of ordnance items at demolition site(s) Destruction of ordnance items by means of explosives	Biological hazards (including poisonous plants and animals)	The UXOSO will require avoidance of wild animals and – to the extent feasible – avoidance of poisonous plants, insects, spiders, etc.. He will maintain a supply of insect repellent and encourage its use.	M
X		Establishment of demolition site(s) Accumulation of ordnance items at demolition site(s) Destruction of ordnance items by means of explosives	Inclement weather	The UXOSO will remain aware of weather forecasts and plan for inclement weather during project work. If inclement weather appears imminent, the safety officer will direct site workers to halt work and to take refuge in vehicles or nearby buildings.	M
X		Establishment of demolition site(s) Accumulation of ordnance items at demolition site(s) Destruction of ordnance items by means of explosives	Noise	The UXOSO will require the use of earplugs whenever employees work around noisy operations.	M

ACTIVITY HAZARDS ANALYSIS

JOB STEPS	HAZARDS	ACTIONS TO ELIMINATE OR MINIMIZE HAZARDS	RAC	
X	Establishment of demolition site(s) Accumulation of ordnance items at demolition site(s) Destruction of ordnance items by means of explosives	Vehicle accidents	The UXOSO will confirm that only drivers qualified under the ZAPATA fleet safety program are permitted to drive vehicles. The UXOSO will enforce appropriate vehicle safety rules, including a reasonable speed limit, if one is not imposed by site authorities.	M
X	Establishment of demolition site(s) Accumulation of ordnance items at demolition site(s) Destruction of ordnance items by means of explosives	Ordnance hazards and hazards related to the use of explosives	The UXOSO will permit only properly trained UXO technicians to enter the work area. He will require adherence to stringent procedures to avoid unplanned detonation of ordnance. The UXOSO will enforce an exclusion zone sufficient to prevent entry of unauthorized personnel into a potentially dangerous area. The UXOSO will limit the number of personnel within the exclusion zone to the minimum necessary to accomplish the work. Demolition tasks will be directed by a UXO technician who is trained and licensed as an explosives expert. This explosives expert will adhere to stringent procedures in the work plan and in standard military references during the transport, storage, and use of explosives.	M

Add Items

EQUIPMENT	TRAINING	INSPECTION	
X	Various vehicles Shovels and other implements Powered hand tools	<p>All site workers will be briefed on the requirements of the site safety plan, including emergency plans.</p> <p>At least two site workers present at all times must have current first aid and CPR certifications.</p> <p>The UXOSO will conduct a daily safety briefing.</p> <p>The UXOSO will confirm that workers who drive vehicles for ZAPATA business are on the list of qualified drivers.</p>	<p>Daily check for adequacy of site communication.</p> <p>Daily inspection of fire extinguishers and first aid kits.</p> <p>Daily activity inspections by UXOSO.</p> <p>Daily vehicle inspections, in accordance with the ZAPATA fleet-safety program.</p> <p>Inspect all hand tools prior to use and repair or replace damaged tools.</p>

Involved Personnel:

SUXOS, UXOSO, and additional DAWSON-ZAPATA JV employees.

Acceptance Authority (digital signature):



ACTIVITY HAZARDS ANALYSIS

Overall Risk Assessment Code (RAC)
(Use highest code)

L

Date: 23 February 2015 Project: W912DY-12-D-0049 (0010)

Activity: MPPEH Inspection, Certification, and Disposition

Activity Location: Fort McClellan, Alabama

Prepared By: George A. Dwiggins, Ph.D., CIH, CSP

Risk Assessment Code Matrix

S e v e r i t y	E = Extremely High Risk	Probability				
	H = High Risk	Frequent	Likely	Occasional	Seldom	Unlikely
	M = Moderate Risk					
	L = Low Risk					
	Catastrophic	E	E	H	H	M
Critical	E	H	H	M	L	
Marginal	H	M	M	L	L	
Negligible	M	L	L	L	L	

Add Identified Hazards				
	JOB STEPS	HAZARDS	ACTIONS TO ELIMINATE OR MINIMIZE HAZARDS	RAC
X	Transport and accumulation of MPPEH items Inspection of MPPEH items Packaging of MPPEH items for removal from the site	Slips, trips, and falls; lacerations from sharp objects; pinched or crushed fingers, feet, and toes; eye injury from flying projectiles or impacts with tree limbs, head injury from impacts; sunburn.	Basic PPE will consist of a hardhat (around mechanical equipment), safety glasses with side shields or comparable side protection, work boots, leather work gloves; and a basic work outfit offering some protection against abrasion and sunlight. The UXOSO will require good housekeeping practices.	L
X		Musculo-skeletal injury from heavy lifting or strenuous exertions.	The UXOSO will require proper lifting techniques and enforce a 40 pound limit on any unassisted lift. The UXOSO will remind employees frequently that magnetometer use can cause repetitive trauma, and require frequent breaks.	L
X		Heat stress.	The UXOSO will monitor conditions and implement controls in ZAPATA Procedures HS-M-12, as appropriate. (The UXOSO will keep a copy of HS-M-12 on the site.)	L
X		Biological hazards (including poisonous plants and animals)	The UXOSO will require avoidance of wild animals and – to the extent feasible – avoidance of poisonous plants, insects, spiders, etc.. He will maintain a supply of insect repellent and encourage its use.	L
X		Inclement weather	The UXOSO will remain aware of weather forecasts and plan for inclement weather during project work. If inclement weather appears imminent, the safety officer will direct site workers to halt work and to take refuge in vehicles or nearby buildings.	L
X		Unauthorized site visitors	The UXOSO will enforce an exclusion zone sufficient to prevent entry of unauthorized personnel into a potentially dangerous area.	L

ACTIVITY HAZARDS ANALYSIS

JOB STEPS	HAZARDS	ACTIONS TO ELIMINATE OR MINIMIZE HAZARDS	RAC	
X	Activity Hazard Analysis for MPPEH Inspection, Certification, and Disposition. Page 2 of 2.	Munitions hazards	The UXOSO will permit only properly trained UXO technicians to enter the work area. The UXOSO will enforce an exclusion zone sufficient to prevent entry of unauthorized personnel into a potentially dangerous area. The UXOSO will limit the number of personnel within the exclusion zone to the minimum necessary to accomplish the work.	L
X		Chemical munitions, or other unanticipated site hazards	The UXOSO will order the immediate withdrawal of all site personnel upon the discovery of chemical munitions or other unanticipated site hazards, and notify the ZAPATA manager of health and safety promptly.	L
X		Vehicle accidents	The UXOSO will confirm that only drivers qualified under the ZAPATA fleet safety program are permitted to drive vehicles. The UXOSO will enforce appropriate vehicle safety rules, including a reasonable speed limit, if one is not imposed by site authorities.	L


Add Items

EQUIPMENT	TRAINING	INSPECTION	
X	<p>Various hand-held tools</p> <p>Various vehicles</p>	<p>All site workers will be briefed on the requirements of the site safety plan, including emergency plans.</p> <p>At least two site workers present at all times must have current first aid and CPR certifications.</p> <p>The UXOSO will conduct a daily safety briefing.</p> <p>The UXOSO will confirm that workers who drive vehicles for ZAPATA business are on the list of qualified drivers.</p>	<p>Daily check for adequacy of site communication.</p> <p>Daily inspection of fire extinguishers and first aid kits.</p> <p>Daily activity inspections by UXOSO.</p> <p>Daily vehicle inspections, in accordance with the ZAPATA fleet-safety program.</p> <p>Inspect all hand tools prior to use and repair or replace damaged tools.</p>

Involved Personnel:

SUXOS, UXOSO, and additional DAWSON-ZAPATA JV employees.

Acceptance Authority (digital signature):



**APPENDIX G
MINIMUM SEPARATION DISTANCE CALCULATION
(AN EXAMPLE IS INCLUDED)**

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Fragmentation Data Review Form



Database Revision Date 8/21/2014

Category:

Munition:

Case Material:

Fragmentation Method:

Secondary Database Category:

Munition Case Classification:

DODIC:

Date Record Created:

Record Created By:

Last Date Record Updated:

Individual Last Updated Record:

Date Record Retired:

Munition Information and Fragmentation Characteristics

Explosive Type:

Explosive Weight (lb):

Diameter (in):

Cylindrical Case Weight (lb):

Maximum Fragment Weight (Intentional) (lb):

Design Fragment Weight (95% Unintentional) (lb):

Critical Fragment Velocity (fps):

Theoretical Calculated Fragment Distances

HFD [Hazardous Fragment Distance: distance to no more than 1 hazardous fragment per 600 square feet] (ft):

MFD-H [Maximum Fragment Distance, Horizontal] (ft):

MFD-V [Maximum Fragment Distance, Vertical] (ft):

Overpressure Distances

TNT Equivalent (Pressure):

TNT Equivalent Weight - Pressure (lbs):

Unbarricaded Intraline Distance (3.5 psi), K18 Distance:

Public Traffic Route Distance (2.3 psi); K24 Distance:

Inhabited Building Distance (1.2 psi), K40 Distance:

Intentional MSD (0.0655 psi), K328 Distance:

Note: Per V5.E3.2.2.1 of DoD 6055.09-M the minimum sited K328 distance may be no smaller than 200 ft.

Sandbag and Water Mitigation Options

TNT Equivalent (Impulse):

TNT Equivalent Weight - Impulse (lbs):

Kinetic Energy 10^6 (lb-ft²/s²):

Single Sandbag Mitigation

Required Wall & Roof Thickness (in):

Expected Max. Throw Distance (ft):

Minimum Separation Distance (ft):

Double Sandbag Mitigation

Required Wall & Roof Thickness (in):

Expected Max. Throw Distance (ft):

Minimum Separation Distance (ft):

Water Mitigation

Minimum Separation Distance (ft):

Water Containment System:

Note: Use Sandbag and Water Mitigation in accordance with all applicable documents and guidance. If a donor charge larger than 32 grams is utilized, the above mitigation options are no longer applicable. Subject matter experts may be contacted to develop site specific mitigation options.

Minimum Thickness to Prevent Perforation

	Intentional	Unintentional
4000 psi Concrete (Prevent Spall):	<input type="text" value="2.58"/>	<input type="text" value="1.47"/>
Mild Steel:	<input type="text" value="0.50"/>	<input type="text" value="0.29"/>
Hard Steel:	<input type="text" value="0.41"/>	<input type="text" value="0.24"/>
Aluminum:	<input type="text" value="1.08"/>	<input type="text" value="0.64"/>
LEXAN:	<input type="text" value="3.81"/>	<input type="text" value="2.70"/>
Plexi-glass:	<input type="text" value="2.40"/>	<input type="text" value="1.52"/>
Bullet Resist Glass:	<input type="text" value="1.89"/>	<input type="text" value="1.14"/>

Item Notes