







Final Project Management Plan

Hunter Army Airfield, Georgia

July 2014



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Final Project Management Plan

Hunter Army Airfield, Georgia

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U.S. Army Environmental Command

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List of Acronyms and Abbreviations

ACL Alternate Concentration Limit

ARCADIS ARCADIS US, Inc.

AST Above Ground Storage Tank

ATL Alternate Target Level bgs Below ground surface

BTEX Benzene, Toluene, Ethylbenzene, and Xylene

CAP Corrective Action Plan

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act

CIH Certified Industrial Hygienist
CLIN Contract Line Item Number
COC Contaminant of Concern

Oorkaninan or concern

COR Contracting Officer's Representative

CRP Community Relations Plan
CSM Conceptual Site Model

CSP Certified Safety Professional

DAACG Departure/Arrival Airfield Control Group

ERMA Environmental Remediation Multiple Award

EVO Emulsified Vegetable Oil

FS Feasibility Study

ft Feet

FTA Fire Training Area

GAEPD Georgia Environmental Protection Division

HAAF Hunter Army Airfield

HHRA Human Health Risk Assessment

HSI Hazardous Site Index

SSHP Site-Specific Safety and Health Plan

IRA Interim Removal Action

ISEB In-Situ Enhanced Bioremediation

IWTP Industrial Waste Treatment Plant

JP-4 #4 Jet Propulsion Fuel
LTM Long Term Monitoring

LUC Land Use Controls





ug/L l

Micrograms per liter

mg/kg

milligram per kilogram

mg/L

Milligrams per liter

MIP

Membrane Interface Probe

MNA

Monitored Natural Attenuation

msl

Mean Sea Level

NFA

No Further Action

OCGA

Official Code of Georgia

ORM

Oxygen Releasing Material

PBA

Performance Based Acquisition

PIKA

PIKA International, Inc.

PMP

Project Management Plan

POP

Period of Performance

PWS

Performance Work Statement

QA/QC

Quality Assurance/Quality Control

QAPP

Quality Assurance Project Plan

QCP

Quality Control Plan

RAB

Restoration Advisory Board

RA-C

Remedial Action-Construction

RA(O)

Remedial Action (Operations)

RAO

Remedial Action Objective

RD/RA

Remedial Design/Remedial Action

RI

Remedial Investigation

ROD

Record of Decision

SAP

Sampling and Analysis Plan

SOF

Special Operations Forces

TCE

Trichloroethene

The JV

PIKA International - ARCADIS U.S., Inc. Joint Venture

TO

Task Order

TOC

Total Organic Carbon

USAEC

United States Army Environmental Command

USEPA

United States Environmental Protection Agency

USGS

United States Geological Society

UST

Underground Storage Tank



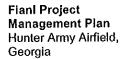


VI

Vapor Intrusion

VOCs

Volatile Organic Compounds





1.0 Introduction and Background

The PIKA International, Inc. (PIKA) - ARCADIS U.S., Inc. (ARCADIS) Joint Venture (the JV) has been retained by the United States Army Environmental Command (USAEC) to perform environmental remediation services at Hunter Army Airfield (hereinafter referred to as HAAF or the "Site"), located in Savannah, Georgia (Figure 1). The full scope of services for this performance based acquisition (PBA) contract is defined in Contract W9124J-13-D-0009 Task Order (TO) 0004 (Appendix A).

This Project Management Plan (PMP) describes the project scope, site background, and the project execution plan for HAAF.

1.1 Project Scope

This PMP supports the scope of services defined in Contract W9124J-13-D-0009 TO 0004 (**Appendix A**) which includes all work necessary to achieve performance objectives at the following sites located at HAAF:

- HAA-01 Fire Training Site;
- HAA-13 Pump House #1;
- HAA-15 MCA Barracks Site; and,
- HAA-17 TCE Groundwater Contamination.

All work will be performed in accordance with the contract and applicable and relevant regulatory requirements. The intent of this PMP is to indicate how project tasks will be implemented and coordinated with project stakeholders during execution of the work specified in the contract. A summary of performance requirements is provided in **Table** 1.



Table 1 Performance Requirements Summary			
Performance Objective	Performance Standard		
Approved Project Management Plan (PMP)	Army approval of the PMP by the COR.		
 Draft PMP within 30 calendar days of contract award. Final PMP within 30 calendar days of receipt of Contracting Officer's Representative (COR) comments on the Draft 			
Annual update of PMP within 30 calendar days of the anniversary of the award of the contract.			
(BASE) Achieve Final Remedial Investigation (RI) and Feasibility Study (FS) Report within 24 months from award of the task order for the following sites: • HAA-17: TCE Groundwater Contamination • HAA-15: MCA Barracks Site	Army approval through the COR/Army and written regulatory concurrence (e.g., receipt of Final RI/FS)		
HAA-01: Fire Training Site			
(Option) Complete a Proposed Plan/Record of Decision (ROD) 12 months from award of the Contract Line Item Number (CLIN) or completion of the Final Feasibility Study or which is later:	Army approval through the COR/Army and Regulatory concurrence (e.g., receipt of Final Proposed Plan and ROD)		
 HAA-17: TCE Groundwater Contamination HAA-15: MCA Barracks Site HAA-01: Fire Training Site 			
Note: Option may be exercised no later than 60 days following COR approval of the Final FS Report.			
(Option) Complete Remedial Design/Remedial Action-Construction (RA-C) at the follow site no later than 12 months from receipt of the Final RODs for the following sites:	Army approval through the COR/Army and Regulatory concurrence (e.g., receipt of Final RD/RA and performance reports documenting system performance against Remedial Action Objectives [RAOs]).		
 HAA-01: Fire Training Site HAA-15: MCA Barracks Site HAA-17: TCE Groundwater Contamination 			
Note: Option may be exercised no later than 60 days following COR approval of the Draft ROD Report.			





Table 1 Performance Requirements Summary	
Performance Objective	Performance Standard
(Option) Perform Remedial Action Operation at the following site for 12 months. HAA-01: Fire Training Site HAA-15: MCA Barracks Site HAA-17: TCE Groundwater Contamination One option CLIN Note 1: Option CLIN may be exercised no later than 60 days following COR approval of the Draft RA-C Report. Note 2: Upon achievement of response complete, the contractor shall petition Georgia Environmental Protection Division (GAEPD) for removal from the Hazardous Site Inventory (HSI) listing for each site.	Army approval through the COR/Army and Regulatory concurrence (e.g., receipt of required performance reports.
(Option) Perform any necessary Remedial Action Operations beginning 1 January 2015 and/or Long-term Management (LTM) including applicable system/monitoring network optimization and maintenance, Land Use Control (LUC) inspections and/or maintenance and complete any required effectiveness monitoring reports for the duration of the task order. In addition, the contractor shall provide an exit strategy/ramp down strategy and discuss any optimization efforts completed as part of the annual reports: - HAA-13: Pump Houses #1 Annual option CLINs to be exercised for 12 months of effort no later than one year from award of the previous CLIN for an additional 36 months. The final option shall cover 6 months.	Army approval through the COR and Regulatory concurrence (e.g., receipt of documentation confirming RC; RA(O)/LTM exit or ramp down strategy; RA(O)/LTM reports incorporating requirements of the exit or ramp down strategy).
(Option) Develop well abandonment plan for all site-wide wells no longer required to support remediation at this site and remove those wells in accordance with applicable requirements.	Army approval through the COR and Regulatory concurrence
ONE OPTION CLIN may be exercised no later than 48 months from the award of the task order.	

1.2 PMP Revisions

This PMP is intended to be a dynamic project planning and execution document, developed during initial task execution with input from the Army. To facilitate the management of updates, each page includes the revision number in the lower right





hand corner. A revision log will be included within each iteration of the PMP, as presented in **Table 2**.

Table 2: Revision Log					
Revision	00	01	02	03	04
Date	July 25, 2014				
Section 1	July 25, 2014				
Section 2	July 25, 2014				
Section 3	July 25, 2014				
Section 4	July 25, 2014				
Section 5	July 25, 2014				
Section 6	July 25, 2014				
Section 7	July 25, 2014				
Table 1	July 25, 2014				
Table 2	July 25, 2014				
Table 3	July 25, 2014				
Table 4	July 25, 2014			-	
Table 5	July 25, 2014				
Table 6	July 25, 2014				
Figure 1	July 25, 2014				
Figure 2	July 25, 2014				
Appendix A	July 25, 2014				
Appendix B	July 25, 2014				
Appendix C	July 25, 2014				
Appendix D	July 25, 2014				
Appendix E	July 25, 2014				





2.0 Site Background and Environmental Program Status

2.1 Site Location and History

HAAF is located in Chatham County, in the southwestern portion of Savannah, Georgia. The airfield is bounded on the north by lightly populated areas, on the east and south by residential and light commercial areas, and on the west by the Little Ogeechee River. HAAF provides an aircraft support base for Fort Stewart which is located in Hinesville, Georgia. Fort Stewart became a Flight Training Center in 1966, and HAAF was acquired from the U.S. Air Force in 1967 to support the increased need for helicopter pilot training during the Vietnam Conflict.

The mission of HAAF is to provide command, control, training, administration, logistical and civilian-military support to assigned and attached non-divisional units stationed at Fort Stewart. HAAF features a runway that is 11,375 feet long and an aircraft parking area that is more than 350 acres. The runway and apron, combined with the 72,000 sq feet Arrival/Departure Facility and nearby railhead, allow the 3rd Infantry Division from nearby Fort Stewart to efficiently deploy Soldiers and cargo worldwide.

2.2 Setting

HAAF has in a coastal plain physiographic setting. The installation is heavily wooded with numerous surface water drainages and creeks. HAAF is bounded on the west by the Little Ogeechee River, which receives surface water drainage from the site.

2.3 Conceptual Site Model

HAAF is located in Chatham County, Georgia, in the southwestern portion of Savannah and covers approximately 5,400 acres. Historically, HAAF served as the site of the first Savannah Municipal Airport, a graded grass airfield constructed in 1929. Construction of three intersecting asphalt runways in the middle of the current concrete parking apron and a new hangar was completed in 1936. The Army acquired the property from the United States Air Force in 1967 for use as a flight-training center. The mission of the facility is to provide command, control, training, administration, logistical, and civilian-military support to non-divisional units stationed at Fort Stewart and HAAF. Aircraft based at HAAF currently include combat, transport, and training aircraft. The airfield is also used for overseas mobilization of troops and equipment.





HAA-01, HAA-13, HAA-15, and HAA-17 surround the airfield runways, which are the topographic high of the facility. The runways were built on the remnants of a relict beach ridge, the Pamlico Terrace, with current elevations ranging from 20 to 40 feet (ft) above mean sea level (msl).

The hydrogeology in the vicinity and at HAAF consists of two aquifers, the Floridan and Surficial, separated by a thick confining unit, the Hawthorne Group. The Floridan aguifer is a regionally extensive aquifer that is approximately 800 ft thick in the area of the site and is the primary water supply in the area. It is comprised primarily of Oligocene-age and Eocene-age porous limestones. The uppermost aquifer system is the surficial aquifer at the site consisting of a sequence of near-shore to shoreface (barrier island) sediments consisting mainly of sands with interbeds of clays and silts increasing at depth with thicknesses of 40 to 100 ft. Separating these two aquifer systems are continuous clay units of the Hawthorne Group that are over 100 ft thick and underlain by two continuous clay units separating this aquifer from the Floridan, acting as a major confining unit. A deep test well at HAAF (36Q397) shows that interbedded the clay units extend from approximately 60 to 300 ft below ground surface (bgs) (USGS, 2012). These clays are significant and have not allowed vertical migration of constituents to the Floridan aquifer. Constituents to date have migrated vertically and horizontally through the more permeable sands at shallow depths of the surficial aquifer and have not been encountered deeper and are not expected to migrate into the confining units.

2.4 Site Details

ARCADIS' contract goal is to achieve the project objectives defined in Table 1 for each of the PBA sites encompassed by this contract in a timely, and regulatory acceptable manner. The following sections provide an overview of the specific approaches and strategies to be used in achieving this objective. **Figure 2** depicts the Site locations within HAAF.

2.4.1 HAA-01 - Fire Training Site

HAA-01 consists of the former fire training area (FTA) and the Departure/Arrival Airfield Control Group (DAACG) in the northwestern portion of the HAAF. The site is west of the flight line and approximately 800 ft northwest of the control tower. The topography of the site slopes gently west toward the Springfield Canal. The canal flows southwest before emptying into the Little Ogeechee River Floodplain. The elevation of the site





ranges from about 35 ft msl at the eastern boundary of HAA-01 (fire training pad) to 14 ft msl along the northwestern boundary (the northern drainage ditch) of the site.

The former FTA consisted of a steel structure utilized as a mock aircraft that was on placed on gravel covered concrete fire training pad (a 6,400-square-foot-area enclosed within a concrete curb). Two above-ground storage tanks (ASTs), a 17,000 gallon fuel AST and a 1,100 gallon fuel and solvent contaminated water AST, were also located at the site approximately 150 ft north of the training pad. Contaminated fuels (#4 Jet Propulsion Fuel (JP-4) and diesel fuel) were sprayed on the mock aircraft then ignited and extinguished during the training. Fire training activities were discontinued at the site in 1991, and all components of the FTA, along with contaminated soils, were removed in 1998 as part of soil remediation activities. During the initial investigation conducted in 1999 and 2000, chlorinated solvent impacts were detected in groundwater north of the former FTA. This area was identified as the DAACG chlorinated solvent area have been treated as one site for investigation and remediation purposes.

Multiple phases of investigation were conducted at HAA-01 between January 1997 and February 2012 to delineate impacts to soil, groundwater, surface water, and sediment. The investigations successfully delineated the horizontal and vertical extent of impacts at HAA-01. The sample analysis results indicated low-level impacts to soil, surface water, and sediment and higher-level impacts detected in shallow groundwater. The primary groundwater contaminants of concern (COCs) for the FTA are benzene and naphthalene. Aldrin, benzene, cis-1,2-dichloroethene, trans-1,2-dichloroethene and vinyl chloride are the primary groundwater COCs in the DAACG area.

In support of RI development, the JV will conduct a limited investigation to fill in any remaining data gaps. The investigation will include collection of shallow and deep groundwater samples to evaluate current shallow and deep groundwater conditions, collection of surface water and sediment samples in the drainage canal west of the FTA area, and completion of a vapor intrusion (VI) evaluation. Following completion of the investigation, a Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) RI/FS report will be prepared based on new and existing data. As part of the RI/FS, a human health and ecological risk assessment will be completed to serve as the foundation for development of the proposed remedial action.

Active remediation will focus on achieving hot spot treatment in the DAACG area to reduce contaminant concentrations with an optimized monitoring program to manage





dilute groundwater impacts in both the former FTA and DAACG areas. The JV will implement an in-Situ enhanced bioremediation (ISEB) treatment remedy to address residual chlorinated volatile organic compounds (VOCs) within the DAACG area. The remedial approach will address areas of the shallow groundwater plume with elevated soil and/or groundwater impacts. With the active treatment, monitored natural attenuation (MNA) and institutional controls will be implemented to manage areas of the Site with low level groundwater COCs.

The JV will prepare a Proposed Plan for public comment of the remedy followed by a ROD and implementation of the approved remedial action. Ongoing operation, maintenance and ISEB remedy will be required. Monitoring locations downgradient from the injection barriers will be used to confirm distribution of the remedial substrate, demonstrate enhancement of the reductive dechlorination process, and confirm sufficient organic electron donor (i.e. total organic carbon [TOC]) is available to promote treatment. Operation of the remedy will entail periodic (e.g., every 2 to 3 years) injection of the emulsified vegetable oil (EVO) substrate to sustain treatment in each barrier and segment the primary plume mass into sections to enable treated groundwater transport between barriers. As TOC concentrations decline within the vicinity of the injection barrier, subsequent injection events will be completed to replenish the organic carbon supply as needed. The JV will operate the system until the end of the contract period of performance (POP).

2.4.2 HAA-15 - MCA Barracks Site

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The MCA Barracks Site (HAA-15) is north of the flight line in the northeastern portion of HAAF. This area has historically and currently houses barracks, hangers, maintenance areas, a heat plant facility, administrative buildings, recreation facilities, crash stations, warehouses, guardhouses, former hospital buildings, a Link trainer building, mess halls, officers' quarters, and a theater. The site contains a 10-acre pond and the two main potable wells for the installation. Initial discovery of impacts occurred during preconstruction investigation for the Special Operations Forces (SOF) facility and MCA Barracks during 1996 through 1998.

Two trichloroethene (TCE) source areas have been identified at HAA-15. The primary source originates near Hanger T-811 area where TCE was used as a cleaner and solvent. TCE contaminated soil was detected during the removal of the grease trap associated with T-811. The grease trap was used to dispose of spent solvent that was then discharged to the sewer conveyance lines running northward from Hanger T-811 and along Lightning Drive. No source mass was detected in the vadose zone near the





grease trap or sewer lines. Extensive investigation near Hanger T-811 and the sewer lines successfully delineated the impacts to groundwater with the highest groundwater concentrations detected downgradient of hanger T-811. Any historical impacts in soil most likely have dissipated through the discharge of water from the sewer lines and subsequent dissolution from soils and/or natural attenuation following the rumination of the cleaning and maintenance operations in Hanger T-811 that resulted in the TCE release. A second TCE source area was identified near the aircraft wash racks and former Industrial Waste Treatment Plant (IWTP) adjacent to Building 850, southeast of the Hanger T-811. In this area, TCE was detected in groundwater in the deep zone of the upper aquifer at one location. Concentrations indicative of source mass were not detected in unsaturated soil in the area or in the shallow zone of the upper aquifer.

Surface soil sampling, conducted in 2006, indicate lead and mercury impacts in the Old Hospital Area. Mercury impacts were delineated to below background concentrations in 2006. Supplemental surface soil sampling performed in 2010 completed the delineation of the lead impacts. Although a clear source of the lead impacts has not been identified, the impacts are near the boiler room that provided steam heat to the old hospital. Coal was reportedly used to fuel the boilers and may have been the source of the soil impacts. How long the boiler room was in operation or how long coal was used as the fuel source is unknown. Other surface soil analysis results in the area were much lower than the maximum lead concentration and the impacts are limited to a small area.

In support of RI development, the JV will conduct a limited investigation to fill any remaining data gaps. The investigation will include installation of one shallow and one deep groundwater monitoring well, collection of shallow and deep groundwater samples to evaluate current groundwater conditions, and completion of a VI evaluation. Following completion of the investigation, a CERCLA RI/FS report will be prepared based on the new and existing data. As part of the RI/FS, a human health and ecological risk assessment will be completed to serve as the foundation for development of the proposed remedial actions.

In conjunction with existing site use restriction and supported by the RI/FS risk assessment activities, the JV will implement a focused source treatment approach to eliminate identified source mass, reduce the primary flux of contaminants with the plume core, and manage HAA-15 groundwater using a long-term monitoring program. Active remediation will include implementation of an ISEB remedy for treatment of elevated chlorinated VOCs in groundwater north of the former airfield hangers. The JV will install and operate two ISEB injection barriers to address the primary VOC mass





flux within the main plume and conduct localized injections near the former IWTP for treatment of the secondary hot spot.

The JV will prepare a Proposed Plan for public comment of the remedy followed by a ROD and implementation of the approved remedial action. Ongoing operation, maintenance and ISEB remedy will be required. Monitoring locations downgradient from the injection barriers will be used to confirm distribution of the remedial substrate, demonstrate enhancement of the reductive dechlorination process, and confirm sufficient organic electron donor (i.e. TOC) is available to promote treatment. Operation of the remedy will entail periodic (e.g., every 2 to 3 years) injection of the EVO substrate to sustain treatment in each barrier and segment the primary plume mass into sections to enable treated groundwater transport between barriers. As TOC concentrations decline within the vicinity of the injection barrier, subsequent injection events will be completed to replenish the organic carbon supply as needed. The JV will operate the system until the end of the contract POP.

2.4.3 HAA-17 - TCE Groundwater Contamination

HAA-17 is located in the northeastern portion of HAAF and east of the flight line. Facilities currently and formerly located in the investigation area are the purge facility, Former Underground Storage Tanks (USTs) 25 and 26, Building 1290, former drycleaner location, and former Strategic Air Command special weapons area. The former UST 25 and 26 site is in the 260th Quartermaster Motorpool on Tubb Road. UST 25 had a capacity of 25,000 gallons and stored diesel fuel. UST 26 had a capacity of 6,000 gallons and stored gasoline. Both USTs were located in the same tank pit and constructed of fiberglass-coated steel with associated piping constructed of steel with protective coating. The HAAF purge facility is located in the southern section of the investigation area and is an active facility where tanker trucks that store and transport petroleum products, mainly JP-8, are cleaned. Building 1290 is located in the western section of the investigation area adjacent to the airfield and serves as an aircraft hangar where solvents were formerly used as part of degreasing activities. Other facilities previously located in the investigation area include a former dry cleaning facility that was east of Building 1290 and a former weapons cleaning facility that was south of the former dry cleaner.

Multiple investigation activities have been completed since 1999 that successfully characterized the vertical and horizontal extent of contamination distribution in both the shallow and deep surficial aquifer groundwater intervals. These activities have indicated that low level TCE and hydrocarbon concentrations are present near former





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UST 25 and 26, the purge facility, and former weapon cleaning facility, with the primary HAA-17 contaminants associated with the former UST 25 and 26 area. An interim removal action (IRA) was completed within this area during 2006, removing two well locations and limited shallow impacted soils associated with petroleum free product encountered.

In conjunction with the former TCE UST area investigation, investigation activities were also completed at the purge facility between May to July 2006. Results from the purge facility investigation indicated that limited concentrations of both petroleum hydrocarbons and TCE were detected in shallow and deep groundwater, respectively.

Site-wide investigation activities completed during 2007 and 2008 were conducted in areas extending from Building 1290 to the former UST area and locations east of the drainage canal. These activities indicated that contaminant impacts were not observed near Building 1290 and confirmed that the highest TCE concentrations were present within the former UST 25 and 26 area at depths ranging between approximately 20 to 30 ft bgs.

Building on the previous investigations, additional site characterization activities were conducted from November 2009 through January 2012 that included hydraulic testing, sampling of existing and new monitoring wells, and vertical and horizontal delineation of source area with membrane interface probe (MIP) and soil/groundwater sampling. The investigation was completed to the base of the shallow aquifer as determined by the presence of the confining clay unit encountered site-wide at depths between 40 and 45 ft bgs (shallower near the canal). Thinner sequences of silty clays were encountered above 40 ft bgs in select borings near the former USTs 25 and 26 and appear to act as semi-confining units that separate the shallow and deep portions of the upper aquifer. These units were not observed in borings completed at the purge facility or at the former dry cleaning facility.

A groundwater divide is evident in both shallow and deep groundwater between Building 1290 and the former purge facility. The flow direction of groundwater in the Building 1290 area is generally westerly toward the taxiways. Groundwater in the shallow and deep zones in the central and eastern portions of the HAA-17 area follows the topographic gradient of the site and flows to the southeast toward the former location of the USTs 25 and 26 and the canal. Deep zone groundwater continues to flow east under the drainage canal. Data indicate the drainage ditch is a discharge point for shallow groundwater and surface water levels mimic shallow groundwater conditions. Artesian conditions exist in some well proximate to the canal.





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Based on the extensive investigations conducted at HAA-17, three main areas of groundwater contamination were found, the former UST 25/26 area, the purge facility area, and the former drycleaner area. The highest TCE impacts were reported in deep groundwater (30 to 40 foot interval) in the former UST 25/26 area with minor impacts reported around the purge facility and former dry cleaner area. Petroleum impacts and low-level VOCs were also reported in shallow groundwater (2.5 to 12.5 foot interval) in UST 25/26 area. Although diffuse, the TCE source appears centered in the area of historic soil borings AF-52 and AF-53 located between former USTs 25 and 26 and Building 1345.

In support of RI development, the JV will conduct a limited investigation to fill any remaining data gaps. The investigation will include installation of 4 additional monitoring wells, collection of shallow and deep groundwater samples to evaluate current groundwater conditions, and completion of a VI evaluation. Following completion of the investigation, a CERCLA RI/FS report will be prepared based on the new and existing data. As part of the RI/FS, a human health and ecological risk assessment will be completed to serve as the foundation for development of the proposed remedial actions.

Active remediation will focus on development of an appropriate site-wide monitoring program to manage low level concentrations of contaminants in groundwater in conjunction with focused source mass reduction near the former UST 25 and 26 area to reduce potential failure risk to receptors and the overall long-term monitoring duration. The JV will complete a one-time injection of EVO from a network of temporary direct push injection points to establish a long-term source of organic carbon and promote degradation of chlorinated VOCs in exceedance of 1,000 micrograms per liter (ug/L). The dilute VOCs outsides of the UST 25 and 26 area and historical site-wide groundwater COC impacts identified within the vicinity of the Purge Facility, Building 1290, the Former Drycleaner, and the Former SAC Special Weapons Facility will be managed via a groundwater monitoring program and institutional controls.

The JV will prepare a Proposed Plan for public comment of the remedy followed by a ROD and implementation of the approved remedial action. Ongoing performance monitoring will be required following remedy implementation to evaluate the remedy performance and ensure groundwater concentrations are continuing to degrade. The JV will complete the required performance monitoring activities until the end of the contract POP.

Fianl Project Management Plan Hunter Army Airfield, Georgia



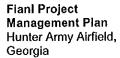
2.4.4 HAA-13 - Pump House #1

Former Pump House #1 (HAA-13) was an aviation-fuel island located along the east-west taxiway of HAAF used from about 1953 until the early 1979s. It consisted of ten 25,000-gallon USTs and a 50,000-gallon underground defueling tank. The pump house was inactive from the 1970s to 1995, when eight of the 25,000-gallon USTs were removed. The 50,000-gallon defueling tank and two of the 25,000-gallon tanks remained in-place, partially under the pump house structure. In 1998, the pump house structure was removed, along with the two remaining 25,000 gallon USTs. The 50,000-gallon defueling tank was closed in-place. The piping from the boundary of the pump house facility to the bulk fuel farm was also drained, pigged, and grouted in-place. The horizontal and vertical extent of petroleum-related impacts in soil and groundwater was delineated by activities performed during previous investigations at the former Pump House #1 site and the DAACG facility.

2,4.4.1 Release #1

Release #1 is an area of soil and groundwater contamination near the DAACG facility and former Fuel Pits 1A and 1B. Benzene, toluene, ethylbenzene, and xylene (BTEX) are the constituents of potential concern identified for site groundwater. The recommended remedial strategy for groundwater in the original Corrective Action Plan (CAP) was free product removal followed by MNA. The first phase of the corrective action is substantially complete, as free product has not been detected at a measureable thickness in site monitor wells since December 2006. The second phase of the corrective action is remediation of benzene in groundwater to below the GAEPD approved Alternate Concentration Limit (ACL) of 285 ug/L. To reduce the estimated timeframe for groundwater to reach ACLs, an active remedy was recommended in the Revised CAP-Part B (ARCADIS, 2009a) and the Revised CAP-Part B Addendum #1 (ARCADIS, 2009b) to address the remaining groundwater impacts. The remedy consists of calcium peroxide injections to increase oxygen concentrations in the aquifer and enhance aerobic biodegradation of the residual BTEX impacts in groundwater. Two calcium peroxide injections have been conducted. Benzene concentrations in the site monitor wells are close to the ACL of 285 ug/L and have shown a long-term decreasing trend.

As of the October 2013 sampling event, one monitoring well (D-MW-37) exceeded the existing ACL, and only two other monitoring wells (D-MW-34 and P1R1-MW-02) have exhibited an exceedance of the ACL within the past 2 years. The extent of benzene is currently delineated, does not represent a risk to receptors under the current site





conditions, and is adequately managed by the on-going MNA program. The JV will optimize the current groundwater monitoring program via the systematic reduction in montoring locations no longer necessary to support data assessment. In accordance with the current approved Revised CAP-Part B (ARCADIS, 2009a) and the Revised CAP-Part B Addendum #1 (ARCADIS, 2009b), the JV will conduct semi-annual groundwater monitoring and CAP Progress Reporting within the POP. If concentrations in groundwater decrease below the ACL for two consecutive events, the JV will request no further action (NFA) from GAEPD.

2.4.4.2 Release #2

Release # 2 is in an area of soil and groundwater contamination near the former Pump House #1 facility and former Fuel Pits 1C and 1D, approximately 200 ft north of the former Tank Pits. The approved corrective actions for soil and groundwater at the former Pump House #1 Release #2 in the original CAP – Part B report included free product removal and MNA. In May 2006, six injection wells were installed around the Pump House #1 Release #2 tank pit area for the injection of oxygen-releasing material (ORM) to enhance the degradation of the BTEX compounds. Injections were conducted from July 2006 through April 2007. Site contaminant levels were not significantly reduced through the injection of oxygen releasing material (ORM) over the 1-year period, and were generally attributed to the inadequate delivery of the solid ORM material from the injection wells.

As specified in the CAP–Part B report, corrective action activities will be discontinued when benzene concentrations in groundwater are reduced to below the GAEPD approved ACL of 285 μ g/L. Additionally, benzene and chrysene concentrations in soil must be below the approved alternate threshold limits (ATL) of 9.3 and 2.1 milligrams per kilogram (mg/kg), respectively. Subsurface soil sampling performed in January 2008 indicated that the benzene concentrations are below the ATL of 9.3 mg/kg. Soil samples were not analyzed for chrysene.

To decrease the remedial timeframe and to mitigate impacts to canal surface water downgradient of the petroleum hydrocarbon plume, two additional remedial actions were implemented. In-situ chemical oxidation using sodium persulfate was conducted to reduce contaminant mass in the source area. The migration of dissolved BTEX to the drainage canal was mitigated by blending reactive columns of calcium peroxide in two offset rows of vertical borings to develop an aerobic reactive barrier and stimulate aerobic biodegradation of contaminants in groundwater prior to discharge into the canal.





Five injections of sodium persulfate and two calcium peroxide barrier replenishment events have been performed to date. An additional persulfate injection and calcium peroxide installation event will be conducted during 2014. Chemical oxidation with sodium persulfate has been effective in destroying contaminant mass. However, residual mass present within the vicinity of the injection network has limited achievement of complete BTEX reduction and benzene concentrations currently exist above the ACLs. The source treatments and the calcium peroxide barrier along the canal south of the site have mitigated BTEX impacts to surface water in the canal, reducing the footprint and magnitude of BTEX groundwater distribution.

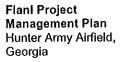
The combination of sodium persulfate injections and passive oxygen delivery via the downgradient treatment barrier reduced hydrocarbon source material and controlled dissolved-phase transport towards the canal. The JV will modify the current remedy to further enhance treatment of dissolved-phase hydrocarbons - specifically benzene as they migrate along the primary plume path. Ongoing persulfate injections have resulted in hydrocarbon destruction via both direct oxidation and sulfate-mediated (generated via persulfate consumption) anaerobic biodegradation. Ongoing performance monitoring indicates that while positive treatment has been achieved, residual hydrocarbon mass likely exists either outside and/or above the water table near the source area injection network and continues to serve as a source of benzene in groundwater above the ACL. Additional improvements in water quality anticipated following the fifth persulfate injection completed in June 2014 will further reduce benzene impacts in Remediation Area A, and the persulfate injection program can be discontinued. In conjunction with discontinuing the injection program, the JV will install a second reactive barrier south of the runway to serve as a source of oxygen release to cut off the future transport of residual benzene concentrations. This reactive barrier will expand on the successful operation of the existing barrier and serve as a second reactive wall to segment the plume and support passive treatment of impacts to below the ACL. The JV anticipates the longevity of each barrier to be 1 to 2 years. Following discontinuation of the persulfate injection program, the JV will request approval for reductions in monitoring from quarterly to semi-annual frequency. The monitoring program will be used to confirm the reactive barrier treatment performance, determine when the reactive barrier needs to be replenished, demonstrate when benzene concentrations have been reduced to below the ACL, and support demonstration of site closure. The JV will continue semi-annual groundwater monitoring and CAP Progress Reporting until the end of the POP.

Fianl Project Management Plan Hunter Army Airfield, Georgia



2.5 Well Abandonment

To help minimize the Army's long-term monitoring costs, the JV will prepare a well abandonment work plan to optimize the monitoring network at HAA-01, HAA-13, HAA-15, and HAA-17. The JV will consider the total needs of the site in determining the wells for abandonment. The work plan will also include the existing monitoring wells at the recently closed site HAA-09 Release 3. Wells no longer required as part of the remedy implementation or long-term monitoring programs will be abandoned by a Georgia certified well driller, under the direct supervision of a registered professional geologist (from the JV), and in accordance with the Georgia Water Well Standards Act, Official Code of Georgia (O.C.G.A.) 12-5-120 et seq., Georgia Groundwater Use Act, O.C.G.A. 12-5-90 et seq. and 12-5-105 et seq., Georgia Safe Drinking Water Act, O.C.G.A. 12-5-170 et seq., and applicable Georgia Department of Natural Resources' rules, regulations and guidance documents. The JV will prepare and submit a completion report to document the well abandonment activities.





3.0 Risk Management Plan

Risks associated with the successful completion of the PBA at HAAF will be proactively managed by the JV, in conjunction with the Decision Makers Forum. **Table 3** lists the primary risks associated with successful implementation of the Performance Work Scope (PWS) at HAAF and the planned mitigation measures.

Risk Identification	Nature of Risk/ Potential Impact	Mitigation Measures
Vapor intrusion assessment within HAA-15	Chlorinated VOC plume beneath existing barracks.	The highest VOC concentrations detected during historical investigations were in deep groundwater at HAA-15. Multiple buildings are located near the groundwater plume. The stratified vertical nature of the plume, characterized by low VOC concentrations within shallow groundwater (10 to 30 ft bgs) that overlies the higher VOC concentrations in deeper groundwater (35 to 50 ft bgs) and presence of the primary plume in areas that are not overlain by existing structures suggest that VI risks will be limited. The partitioning of VOCs present at the water table to soil gas is anticipated to be limited and otherwise mitigated by attenuation mechanisms that would support the dispersion, diffusion, and degradation of these COCs within soil gas. The JV will conduct vapor intrusion modeling to determine the potential for vapor intrusion. If potential risk is identified, the JV will collect soil gas and/o sub-slab samples to further evaluate the potential risk. If field tests indicate vapor intrusion is an issue, the JV will work with HAAF and GAEPD to develop mitigation measures for the affected buildings.
Supplemental 1,4-dioxane sampling	Detection of 1,4-dioxane above remediation standards.	Any 1,4-dioxane impacts above regulatory standards will be delineated as part of the RI and evaluated in the FS.





Risk Identification	Nature of Risk <i>l</i> Potential Impact	Mitigation Measures
Acceptance of long-term maintenance and monitoring programs	GAEPD may require a more comprehensive long-term maintenance and monitoring program.	Supplemental groundwater monitoring conducted in support of the RI/FS and completion of the human health risk assessment will provide the technical basis for the remedies proposed at each site. The risk assessments will assess all potentially complete exposure scenarios to demonstrate mitigation by either the proposed remedy or appropriate provisions put in place to specify future site use while soil and/or groundwater impacts are present. The JV will consider the ongoing use of HAAF as an active military base, the associated access restrictions at the facility, and the source of drinking water being derived from either the un-impacted Floridan aquifer or public supply as part of the RI/FS activities. The long-term maintenance and monitoring programs will provide measures for these provisions to remain adequate and demonstrate when they can be lifted. The JV will work with both HAAF and GAEPD to develop these programs and ensure that sampling activities, inspections, and reporting methods demonstrate that requirements are upheld.
GAEPD acceptance of remedial approach	The JVs proposed approaches entail a combination of both active treatment to address the primary COC mass and MNA to manage dilute plume impacts that cannot be managed in a cost-effective manner. GAEPD may require active remediation for an expanded area.	The JV will support the remedial approach by a fully developed conceptual site model (CSM), a robust MNA demonstration as part of the RI/FS, a risk evaluation, and a monitoring program developed in the RD/RA work plan to guide long-term evaluation and assessment of changes in groundwater conditions across the installation. The JV members have worked with the GAEPD to develop similar remedial strategies that include both active and passive components to cost effectively manage remediation activities at other active military installations. The JV will engage the GAEPD in the remedial decision making process, support negotiations over the course of remedial development, and support final approval of the proposed approach.
Delays in Regulatory Reviews	Extensive delays in regulatory reviews can impact the overall project schedule. Based on the number of concurrent PBAs being performed under GAEPD oversight, delays are likely.	The JV will work with all stakeholders to expedite formal approval of work plans and key decision documents. However, when formal approvals are delayed, the JV will evaluate proceeding at risk on allowable activities. To maintain the project schedule, the JV will work with both HAAF and GAEPD to obtain preliminary approvals and mitigate the risks of proceeding on field activities without formal regulatory approval.



4.0 Project Execution

This section presents the project team, the communications plan, project meetings, the Quality Management Plan, and an overview of the Health and Safety program. These sections represent the current best estimate for the planning and execution of the work necessary to achieve the performance objectives and requirements outlined in the PWS. As the project proceeds, these sections will be revised as necessary.

4.1 Project Team

This section details the project team structure (both external and internal to the JV), roles, and responsibility.

4.1.1 Decision Makers Forum

It is the JV's philosophy that the key to successful project execution is the development of a central team of decision makers, known as the Decision Makers Forum. These team members, in a manner consistent with existing agreements, work together to facilitate decisions and to integrate all regulatory and technical requirements into those decisions. The core members of this team are outlined in **Table 4**.

Name and Contact Information	Telephone/E-Mail	Project Function
Paul Higgs U.S. Army Environmental Command 2450 Connell Road, Ist Floor Bldg 2264 Fort Sam, Houston, 78234-7664	Phone: (210) 466-1727 Cell: (210) 834-6954 paul.a.higgs@us.army.mil	U.S. Army Environmental Command COR
Algeana Stevenson Hunter Army Airfield DPW Prevention and Compliance Branch 106 MacArthur Circle Bldg 615 Savannah, GA 31409	Office: (912) 315-5144 Cell: (912) 210-2950 Fax: (912) 315-5148 algeana.l.stevenson.civ@mail.mil	Hunter Army Airfield Installation Program Manager
Zsolt Haverland USACE Savannah District 100 W. Oglethorpe Avenue Savannah, GA 31401	Office: (912) 652-5815 Fax: (912) 652-6040 Zsolt.E.Haverland@usace.army.mil	US Army Corps of Engineers Technical Oversight



Name and Contact Information	Telephone/E-Mail	Project Function
Amy Potter Georgia Department of Natural Resources Environmental Protection Division 2 Martin Luther King Jr. Drive Suite 1152, East Tower Atlanta, GA 30334	Office: (404) 463-0080 Fax: (404) 463-7669 amy_potter@mail.dnr.state.ga.us	GAEPD Department of Defense (DoD) Restoration Unit Coordinator
A. Mohamad Ghazi, Ph. D. Georgia Environmental Protection Division 2 Martin Luther King Jr. Drive Suite 1152, East Tower Atlanta, GA 30334	Office: (404) 463-7507 Fax: (404) 463-7669 mo_ghazi@dnr.state.ga.us	GAEPD DoD Restoration Unit
William Logan Georgia Environmental Protection Division 4244 International Parkway Suite 104 Atlanta, GA 30334	Office: (404) 362-4529 Fax: (404) 362-2654 William.Logan@dnr.state.ga.us	GAEPD UST Management Program Corrective Action Unit II
Shelley Gibbons ARCADIS 801 Corporate Center Drive Suite 300 Raleigh, NC 27607	Office: (919) 415-2256 Cell: (919) 623-9556 Fax: (919) 854-5448 shelley.gibbons@arcadis-us.com	PIKA-ARCADIS Project Manager

Successful execution of this project requires input and coordination from all members of the Decision Makers Forum. Meetings between these parties will be scheduled regularly as discussed in Section 4.3: Communications Plan. Additional input from other stakeholders will be solicited as required.

4.2 Project Team

This section details the project team structure, roles, and responsibility.

4.2.1 Project Team Organization and Management

The JV has established a project organization to emphasize command and control, with delegation from the Project Manager to individual key technical personnel. The JV's proposed project organization is illustrated in **Figure 2**.





4.2.2 Roles and Responsibilities

The objective of our project organization is to provide a streamlined structure to implement assignments in the most cost effective, timely, and technically sound manner possible. To achieve this objective, the JV has designated four functional elements within this organization: Project Management, Corporate Oversight, Technical Advisors, and Technical Resources. Each position within these groups' carries with it a well defined set of responsibilities and authorities, as described on Table 5.

Position	ersonnel Roles and Responsibilities Responsibilities
	 Oversees/directs all work for this TO to meet all contractual obligations.
	 Single point of contact for the task order and has overall responsibility for meeting the contract objectives.
	 Leads monthly progress / cost reporting; responsible for meeting the project schedule and/or managing change proactively.
Project Management Project Manager: Shelley Gibbons	Coordinates regulatory negotiations in coordination with the government (with prior approval from the contracting officer representative (COR)) ensuring appropriate JV technical staff is present at partnering meetings to develop and negotiate strategies with the GAEPD and technical experts.
	 Supports Army in all other stakeholder relations efforts, such as public/ Restoration Advisory Board meetings, and provides technical resources to best support these efforts.
	 Establishes and coordinates projects controls (scope, schedule, and budget). Oversees the preparation/submittal of plans/reports and tracks on-time delivery of all submittals.
	Ensures quality control procedures are followed.
	Ensures Program Leadership/Direction
Corporate Oversight	Defines Client Objective for Contract
Project Director: Lynden Peters	Interface with USAEC Management & Army Contracting Agency Contracting Personnel
Lynden i dioid	Advise Project Manager
	Point of contact for coordination and resolution of regulatory issues.
<u>Technical Advisor</u> Regulatory Specialist: Richard	 Ensures project team conducts CERCLA and GAEPD UST Management Program services in accordance with all applicable United States Environmental Protection Agency (USEPA)/GAEPD environmental requirements and policies.
Collins	 Maintains close communication and coordination with the Army to serve as a resource, as needed, for resolution of legal, regulatory, and policy concerns.



Position	Responsibilities
Technical Resource	 Responsible for the overall management and implementation of the technical strategy and quality of the task order in coordination with the project manager.
Senior Scientist/Engineer:	Directs all aspects of the technical approach, assigns technical roles and oversees the implementation of the technical approach.
James Bedessem, PE	 Directs the RI work and data to provide products to select and implement an appropriate remedy without delay or future ROD reopeners.
Technical Resource Certified Industrial	 Responsible for developing, implementing, and overseeing all safety and health for the task order in accordance with EM 385-1-1; reviews and approves site-specific safety and health plan (SSHP) deliverables and ensures procedures are followed.
Hygienist (CIH) / Certified Safety Professional (CSP):	 Assigns site safety officers to lead safety meetings, work stand-downs, and oversee day-to- day safety compliance in the field.
Tom Burgess, CSP	 Coordinates safety planning/implementation with the JV and subcontractor staff.
Technical Resource	 Ensures task order risk assessment (human health and ecological) goals are attained. Ensures data quality objectives align with evaluating risks during RI and FS and evaluates
Risk Assessor: Shawn Sager, PhD	site data and summary from the RI to advise during FS planning. Performs initial evaluation of the relative degree of risk posed at the sites.

The JV will use its existing office in Raleigh, North Carolina to execute and manage this project. Resources from around the JV will be drawn upon as needed.

4.3 Communications Plan

This section defines the planned communications and progress reporting protocols.

4.3.1 Interactions between the JV and the Army

The JV project manager, Ms. Shelley Gibbons, is the primary point of contact for the Army on this contract for technical and project management communications. She will interface with the COR and members of the Decision Makers Forum on an as-needed basis. Ms. Gibbons will be responsible for communicating the technical strategy for each site to the Army. Such communication will occur prior to any discussion with the regulators. All technical strategies (or preliminary discussion thereof) must be acceptable to the Army prior to the JV holding discussions with the regulatory agencies.

The JV project manager will utilize a team of experts to ensure that project deliverables meet the performance objectives and the needs of the stakeholders. The JV will work





cooperatively with project stakeholders to identify and resolve problems, avoid disputes, and facilitate successful contract performance. The JV will develop a partnering process, building on past success, that:

- Facilitates open and continuous communication, mutual trust, and respect;
- Promotes the creation of a shared plan and vision for success;
- Establishes mutual goals and objectives;
- Reduces paperwork by simultaneous review and approval of information;
- Empowers the staff participating to jointly and expeditiously resolve problems at the lowest level; and
- Preserves the legal and regulatory obligations of the U.S. Army.

4.3.2 Interactions with Regulatory Agencies

As required to meet TO objectives, the JV will attend and or/support meetings to discuss technical or regulatory issues with the Army team, regulatory agency representatives, and other stakeholders. The Army team will be present for all technical meetings as well as any teleconferences with the regulatory agencies; however, the JV will provide logistical support, present materials, and lead technical discussions. The JV will prepare minutes within two weeks of meetings.

4.3.3 Interactions with the Public

Public participation necessary to achieve TO objectives will include one public meeting for the combined Proposed Plan for HAA-01, HAA-15, and HAA-17. At this time, sufficient community interest does not exist to establish and sustain a Restoration Advisory Board (RAB) or technical review committee for HAAF. If public interest increases and a RAB is established during the POP, the JV will support the Army as necessary, including delivering presentations, graphics depicting site conditions, fact sheets, newsletters, and public notices.

A community relations plan (CRP) has been prepared for HAAF with the last update completed in 2012. The JV will update the CRP for the installation every 3 years within the POP. The deliverable will be provided to the COR for review and approval. All public participation coordination will be approved by the Army in accordance with the





CRP and the JV will not make available or publicly disclose any data or report generated under this TO unless specifically authorized by the COR.

4.3.4 Monthly Progress Meetings and Manpower Reporting

As required by the PWS, the Project Manager will complete and submit monthly progress reports to the Army that document activities completed, upcoming activities, safety reporting, summary of deliverables, record of communication, percent complete for each task, and personnel or schedule updates, if applicable. These reports will support project team communication to ensure the project scope, budget, and schedule are being achieved. All reports will be delivered in electronic email format to the Decision Makers Forum. Progress reporting may occur more frequently to address any schedule changes or issues requiring support from the Army. At a minimum of once per year and no later than 30 September of each year, the JV will report to the Office of the Assistant Secretary of Army (Manpower & Reserve Affairs) the manpower information required.

4.3.5 Milestone Presentations

Milestone presentations to the COR will be held at the completion of each key milestone to provide analysis and lessons learned, and will provide approaches for completion of future milestones. Also, at the COR's request, the JV will provide milestone presentations to the other project stakeholders, to show completion of performance objectives.

4.3.6 Document Submittal

All documents will be submitted in draft form to the Army. The COR will be responsible to coordinate Army review and provide ultimate approval. Subsequent to the Army's review, a response to comments table and revisions will be submitted using the "track changes" function in Microsoft Word. Once the draft document is deemed acceptable by the COR, a draft final document will be submitted to GAEPD for review and comment. Once GAEPD comments have been addressed to GAEPD's satisfaction with approval of the COR, the final document will be submitted. The document distribution list including names and addresses is provided in **Appendix B**. Specific scheduling requirements for document review are presented in **Table 6** below.

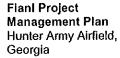


Table 6: Document Review Proto	ocols
Army Reviewers	When documents are sent out from the contractor for internal review, the goal for each reviewer is to have their review comments or a negative response sent back via email within 30 calendar days.
JV Team Members	When Army comments are provided, the goal for the JV is to address comments within 30 calendar days.

4.4 Quality Assurance /Quality Control Program

The JV's Quality Assurance and Quality Control (QA/QC) programs are presented in the original Environmental Remediation Multiple Award (ERMA) Contract Proposal dated 7 December 2011. This JV TO will be executed using an integrated quality program which incorporates elements from both JV firms. This will ensure the JV provides the quality of services and deliverables that are necessary to successfully complete the required work and meet performance objectives. Following our internal procedures and guidance, the JV will implement proven project-specific approaches in the project planning and execution phase to monitor, control and maintain quality. These approaches will be documented in a Quality Control Plan (QCP) included as Appendix C. The QCP documents procedures and activities to ensure delivery of products that meet the Army's expectations, acceptable scientific and engineering standards, and project quality objectives. The QCP includes the following phases of participation:

- Ongoing QC by the contract team: principals, project managers and assigned project team (engineers / designers / CADD technicians / scientists);
- Periodic peer reviews by the corporate QA manager, contract QC manager, department managers or other technical specialists not involved with the project;
- Confirmation by the project manager that the project conforms to the QCP; and
- Assurance from the project manager or QC supervisor that QA has been applied to the project.





4.5 Health and Safety, Analytical Quality Control, and Site-wide Documents

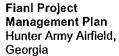
The JV will update existing site-wide work plans to reflect the work proposed herein, including a SSHP, Sampling Analysis Plan (SAP), and Quality Assurance Project Plan (QAPP). The SSHP will be in compliance with EM-385-1-1.

Fianl Project Management Plan Hunter Army Airfield, Georgia



5.0 Schedule Management

A detailed schedule, that contains a work break down structure to identify tasks and subtasks and provide the durations for each, is provided in **Appendix D**. These tasks and subtasks are being linked to identify the critical path necessary to successfully complete the project. The schedule will be a living document, being updated throughout the life of the project. The JV project manager will utilize the schedule to develop and modify the resource plan as well as project logistical planning. The schedule will be the primary measurement of the project progress.





6.0 Milestone Billing Schedule

The Milestone Billing Schedule (Appendix E) provides a list of all approved milestones and submilestones organized by Contract Line Item Number (CLIN).

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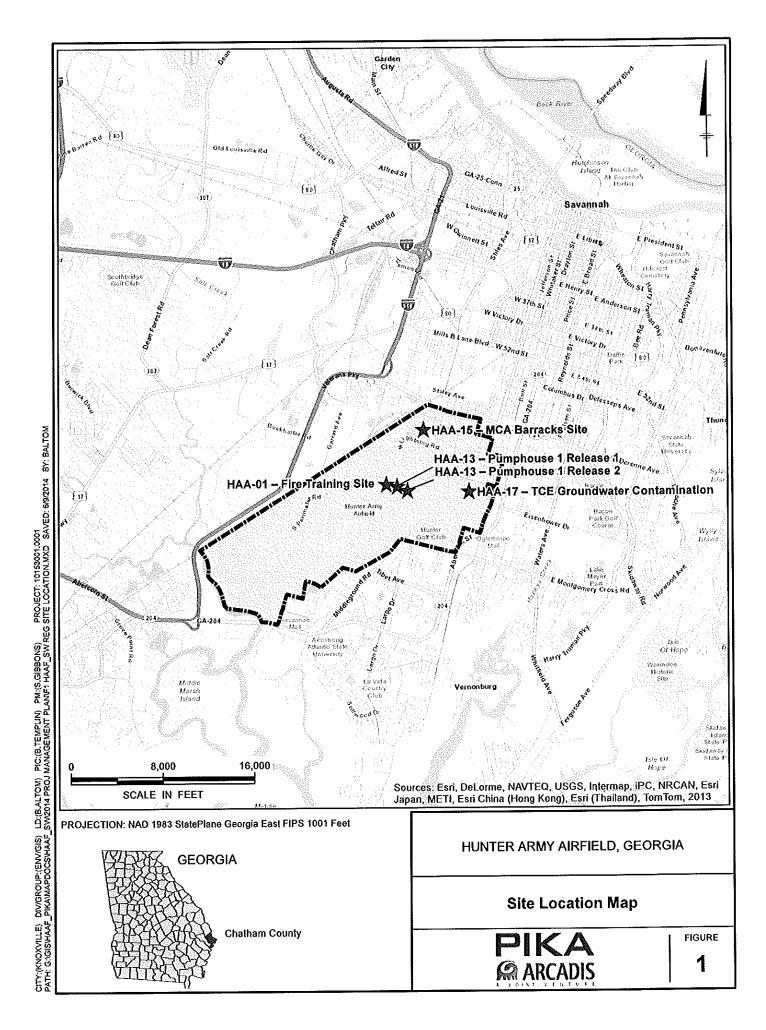


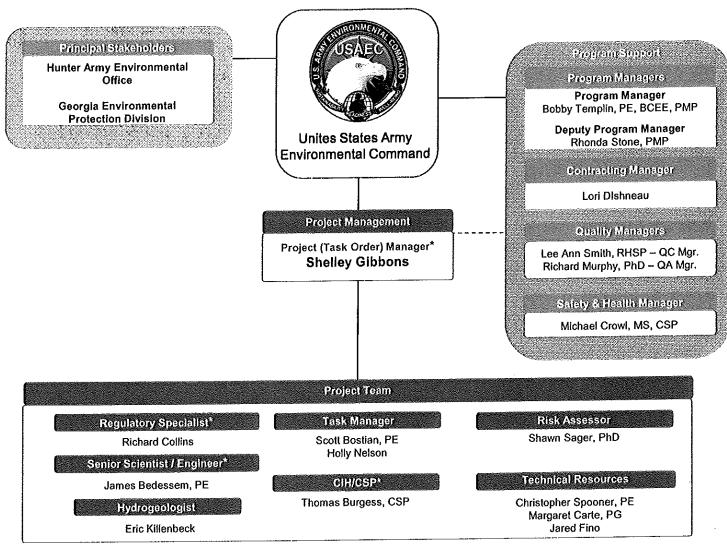
7.0 References

- ARCADIS, 2009a. Final Revised Corrective Action Plan Part B with 2008 Annual Report, Former Pumphouse #1 (Release #2), Former Building 8060, Hunter Army Airfield, Savannah, Georgia, July 2009.
- ARCADIS 2009b. Fifteenth Semiannual Monitoring Report With Addendum #1 to Revised Corrective Action Plan Part B, Former Pumphouse #1, Release #2, Former Building 8060, Hunter Army Airfield, Savannah, Georgia, October 2009.
- United States Geological Survey (USGS), 2012. Hydrogeologic Characteristics and Water Quality of a Confined Sand Unit in the Surficial Aquifer System, Hunter Army Airfield, Chatham County, Georgia, Gonthier, Gerard J., USGS Scientific Investigations Report. 2012-5082.



Figures





^{*} Indicates KEY PERSONNEL required by PWS



Appendix A

Contract

	O	RDER FOR	R SUPPLIES OR S	ERVICES	.,			PA	AGE I OF 13
I. CONTRACT/PURC AGREEMENT NO. W91ZLK-13-D-00	ار.	DELIVERY ORDER	/CALL NO. 3. DATE OF ORI /FITTMMMD/ 2014 May 22		Q./ PURCH. I 63010-0001	REQUEST	NO.	5. PRI	ORITY
6. ISSUED BY CODE W9124J 7. ADMINISTERED BY (if other than 6) CODE MICC - FSH ATTN: MICC - FSH 2205 INFANTRY POST RD 210-466-2145 FORT SAM HOUSTON TX 78234-1361							ELIVERY FOB ODESTINATION OTHER C Schedule if other)		
9. CONTRACTOR CODE 6GRJ2 FACILITY PIKA-ARCADIS JV NAME LORI DISHNEAU AND 12723 CAPRICORN DRIVE ADDRESS STAFFORD TX 77477-4104 10. DELIVER TO FOB POINT BY (Date) (FYFYMMMDD) SEE SCHEDULE 11. DISCOUNT TERMS Net 30 Days						Date) 11.M	ARK IF BUSINESS IS SMALL SMALL DISABOVANTA GED WOMEN-OWNED		
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b. SIGNATURE OF AUTHORIZED GOVERNMENT REPRESENTATIVE c. DATE d. PRINTED NAME AND TITLE OF AUTHORIZED (YTYMMMDD) GOVERNMENT REPRESENTATIVE									
e. MAILING ADD	RESS OF AUTHORIZI	ED GOVERNME	NT REPRESENTATIVE	28. SHIP NO.	29. DO	o vouc	HER NO.	30. INITIALS	
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Section B - Supplies or Services and Prices

ITEM NO 0001	SUPPLIES/SERVICES Development of Core Doc FFP 30 days from award of the		UNIT Job aft PMP	UNIT PRICE \$100,919.00	AMOUNT \$100,919.00
	30 days from receipt of CO	OR comments on t	he draft PMP f	or Final PMP*	
	FOB: Destination PURCHASE REQUEST N	NUMBER: 001045	53010-0001		
				-	
				NET AMT	\$100,919.00
	ACRN AA CIN: GFEBS00104530100	00001			\$100,919.00
ITEM NO 0002	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT \$0.00
	Sites HAA-01, HAA-015, FFP HAA-01 – (Former Fire T HAA-015 - (HAA-015 MG HAA-017 – (TCE Ground FOB: Destination	raining Area and I CA Barracks Site)		inated Solvents Areas)	

NET AMT

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ITEM NO 0002AA	SUPPLIES/SERVICES Remedial Investigation/Fe FFP 24 months from award of FOB: Destination PURCHASE REQUEST 1	the CLIN	UNIT Job 53010-0001	UNIT PRICE \$309,813.00	AMOUNT \$309,813.00
	ACRN AA CIN: GFEBS0010453010	00002		NET AMT	\$309,813.00 \$309,813.00
ITEM NO 0002AB OPTION	SUPPLIES/SERVICES (Option) Proposed Plan/ReFFP 12 months from award of Note: Option may be exert the Final FS Report. FOB: Destination	the CLIN	UNIT Job 60 days follow	UNIT PRICE \$104,216.00 ing COR approval of	AMOUNT \$104,216.00
				NET AMT	\$104,216.00

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ITEM NO 0002AC	SUPPLIES/SERVICES	QUANTITY I	UNIT Job	UNIT PRICE \$426,695.00	AMOUNT \$426,695.00
OPTION	(Option) Remedial Design FFP	/Remedial Action			
	12 months from award of the Note: Option may be exercited Draft ROD Report. FOB: Destination		50 days follow	ring COR approval of	
				NET AMT	\$426,695.00
ITEM NO 0002AD	SUPPLIES/SERVICES	QUANTITY 1	UNIT Job	UNIT PRICE \$416,430.00	AMOUNT \$416,430.00
OPTION	(Option) Remedial Action FFP	-			
	12 Months from award of Note: Option may be exercited Draft RA-C Report. FOB: Destination		50 days follow	ving COR approval of	
				NET AMT	\$416,430.00
ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0003	HAA-13 Pump House #1	*	•		\$0.00
	FFP FOB: Destination				
				- NET AMT	\$0.00
				14171 191411	\$3.00

ITEM NO 0003AA OPTION	SUPPLIES/SERVICES (Option) RAO/LTM FFP 12 Months from award of Note: Option may be exert FOB: Destination	UNIT Job 1 Jan 2015.	UNIT PRICE \$135,704.00	AMOUNT \$135,704.00
			NET AMT	\$135,704.00
ITEM NO 0003AB OPTION	SUPPLIES/SERVICES (Option) RAO/LTM FFP 12 Months from award of Note: Option may be exert 0003AA FOB: Destination	UNIT Job 12 months fro	UNIT PRICE \$127,092.00 m award of CLIN	AMOUNT \$127,092.00
			NET AMT	\$127,092.00

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ITEM NO 0003AC OPTION	SUPPLIES/SERVICES (Option) RAO/LTM FFP 12 Months from award of Note: Option may be exert 0003AB FOB: Destination	UNIT Job 12 months fro	UNIT PRICE \$133,218.00 m award of CLIN	AMOUNT \$133,218.00
			NET AMT	\$133,218.00
ITEM NO 0003AD OPTION	SUPPLIES/SERVICES (Option) RAO/LTM FFP 12 Months from award of Note: Option may be exer 0003AC FOB: Destination	UNIT Job 12 months fro	UNIT PRICE \$128,624.00 m award of CLIN	AMOUNT \$128,624.00
			NET AMT	\$128,624.00

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ITEM NO 0003AE OPTION	SUPPLIES/SERVICES (Option) RAO/LTM FFP 6 Months from award of the state of the sta		UNIT Job 12 months fro	UNIT PRICE \$68,856.00 m award of CLIN	AMOUNT \$68,856.00
				NET AMT	\$68,856.00
ITEM NO 0004 OPTION	SUPPLIES/SERVICES (Option) Well Abandonme FFP 12 Months from award of Note: Option may be exerc order FOB: Destination	the CLIN	UNIT Job 48 months fro	UNIT PRICE \$98,433.00 m award of the task	AMOUNT \$98,433.00
				NET AMT	\$98,433.00

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AMOUNT ITEM NO SUPPLIES/SERVICES QUANTITY UNIT UNIT PRICE NSP 0005 Job 1

CMR Reporting

FFP

Not Separately Priced (NSP)
Contractor to provide services in accordance with the enclosed PWS for the

duration of the task order.

FOB: Destination

NET AMT

Section E - Inspection and Acceptance

INSPECTION AND ACCEPTANCE TERMS

Supplies/services will be inspected/accepted at:

CLIN INSPECT AT	INSPECT BY	ACCEPT AT	ACCEPT BY
0001 Destination	Government	Destination	Government
0002 Destination	Government	Destination	Government
0002AA Destination	Government	Destination	Government
0002AB Destination	Government	Destination	Government
0002AC Destination	Government	Destination	Government
0002AD Destination	Government	Destination	Government
0003 Destination	Government	Destination	Government
0003AA Destination	Government	Destination	Government
0003AB Destination	Government	Destination	Government
0003AC Destination	Government	Destination	Government
0003AD Destination	Government	Destination	Government
0003AE Destination	Government	Destination	Government
0004 Destination	Government	Destination	Government
0005 Destination	Government	Destination	Government

Section F - Deliveries or Performance

DELIVERY INFORMATION

CLIN	DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
0001	POP 22-MAY-2014 TO 21-AUG-2014	N/A	CDR, US ARMY ENVIRONMENTAL COMMAND CDR, US ARMY ENVIRONMENTAL COMMAND 2450 CONNELL ROAD FORT SAM HOUSTON TX 78234 FOB: Destination	W81W25
0002	N/A	N/A	N/A	N/A
0002AA	A POP 22-MAY-2014 TO 21-MAY-2016	N/A	CDR, US ARMY ENVIRONMENTAL COMMAND CDR, US ARMY ENVIRONMENTAL COMMAND 2450 CONNELL ROAD FORT SAM HOUSTON TX 78234 FOB: Destination	W81W25
0002AE	3 N/A	N/A	N/A	N/A
0002AC	C N/A	N/A	N/A	N/A
0002AI) N/A	N/A	N/A	N/A
0003	N/A	N/A	N/A	N/A
0003AA	A N/A	N/A	N/A	N/A
0003AE	3 N/A	N/A	N/A	N/A
0003AC	C N/A	N/A	N/A	N/A
0003AI) N/A	N/A	N/A	N/A
0003AE	E N/A	N/A	N/A	N/A
0004	N/A	N/A	N/A	N/A
0005	N/A	N/A	N/A	N/A

Section G - Contract Administration Data

ACCOUNTING AND APPROPRIATION DATA

AA: 0212014201420200000449493323

6100.9000021001 S.0006815.1.1.2

COST CODE: A2AAC

AMOUNT: \$410,732.00 CIN GFEBS001045301000001: \$100,919.00 CIN GFEBS001045301000002: \$309,813.00

Section I - Contract Clauses

CLAUSES INCORPORATED BY REFERENCE

252.232-7006 Wide Area WorkFlow Payment Instructions

MAY 2013

Section J - List of Documents, Exhibits and Other Attachments

<u>Title</u>	<u>Description</u>	<u>Pages</u>
Attachment A.1	Performance Work Statement (PWS)	18
Attachment A.2	PWS Appendix A, Performance Requirement Summary	2
Attachment B	Wage Determination WD 2005-2141, Revision No. 14	10

Performance Work Statement for Four Sites: (HAA-01, HAA-13, HAA-15, HAA-17) Hunter Army Airfield, Georgia

PART 1 GENERAL INFORMATION

- 1. <u>General</u>: This is a non-personnel services firm-fixed price contract to provide environmental remediation services for four sites at Hunter Army Airfield (HAAF), Georgia.
- 1.1 <u>Description of Services/Introduction</u>: The Contractor shall provide all personnel, equipment, supplies, facilities, transportation, tools, materials, supervision, and other items and non-personal services necessary to complete the contract requirements specified in Table 1 of this Performance Work Statement (PWS) except for those items specified as Government furnished property and services (see Part 3). The Contractor shall perform to the standards in this task order and the Basic Contract.
- 1.2 <u>Background</u>: HAAF is located on 5,400 acres of land in Chatham County, Georgia, in the southwestern part of Savannah. The airfield is bounded on the north by lightly populated areas, on the east and south by residential and light commercial areas, and on the west by the Little Ogeechee River/Forest River.

The mission of the Fort Stewart/HAAF complex is to sustain a quality of life and installation support at the level necessary for division, non-divisional, tenant, and reserve component units to accomplish their training mission.

HAAF obtained a RCRA Part A permit and was under interim status as a hazardous waste generation and storage facility. In 1983, the United States Environmental Protection Agency (USEPA) directed HAAF to file a RCRA Part B permit application. Following an inspection conducted on April 21, 1993 by the Georgia Environmental Protection Division (GAEPD), HAAF was served with a Notice of Violation which was followed by a proposed Consent Order which subjected HAAF to the provisions of the Georgia Hazardous Waste Management Act, as amended, Official Code of Georgia Annotated (O.C.G.A) Section 12-8-60 and placed on the State's Superfund List.

The Contractor shall be responsible for fully executing this firm fixed price contract under a Performance-Based Acquisition (PBA). Work to be accomplished includes, but is not limited to, conducting required environmental remediation services for which the United States Department of the Army (the "Army") is statutorily responsible; addressing any and all environmental, explosive safety, scheduling, and regulatory issues; and assuming contractual liability and responsibility for the achievement of the contract requirements identified in Table 1 of this PWS. All the contamination associated with these four sites shall be addressed including any that has migrated off the installation.

The sites are not suspected to contain Chemical Warfare Materiel (CWM). The Contractor shall not perform CWM work; however, the Contractor shall be familiar with and be able to recognize CWM to be able to stop work and to notify the Army of these potential hazards.

Please note that no munitions and explosives of concern (MEC) are anticipated based on site history. However, if evidence of these items is found, Contractor shall immediately stop work and contact the Contracting Officer Representative (COR) and Contracting Officer (KO). The Contractor shall not perform MEC work; however, the Contractor shall be familiar with and be able to recognize MEC to be able to stop work and to notify the Army of these potential hazards.

The Contractor shall perform all the necessary environmental remediation work required to meet the contract requirements of this PWS in a manner that is consistent with Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), as amended by the Superfund Amendments and Reauthorization Act (SARA), and the National Oil and Hazardous Substances Contingency Plan (NCP), with regulatory coordination with Georgia Environmental Protection Department (GA EPD).

The Contractor shall comply with all applicable Federal, state and local laws and regulations and achieve the service requirements of this PWS in a manner that is consistent with any applicable orders or permits, all existing cleanup agreements or guidance for the Installation, and relevant DOD and Army regulations, policies, and procedures, for the duration of the contract.

1.3 Objectives: The contract requirements for this task order may be found in Table 1. The performance requirements summary for this task order may be found in Appendix A.

this what we need the contractor to propose to given what is in the history above, a Georgia Part A permit and then a consent order under the state's "superfund" designation.

Comment [khg1]: Please run this by the PM. Is

Comment [jpb2]: What is written is correct and the background of the installation is correct also. The Consent Order does not apply to the sites in this task order. So I did not make changes to the PWS

Table 1: Contract Requirements Summary

Contract Requirements	Acceptance Criteria
 Approved Project Management Plan (PMP) Draft PMP within 30 calendar days of contract award. Final PMP within 30 calendar days of receipt of COR comments on the Draft 	Development of PMP as specified in 5.2 of PWS. Army approval of the PMP by the COR.
At a minimum, an annual update of PMP within 30 calendar days of the anniversary of the award of the contract shall be completed.	

Army approval through the COR/Army and written regulatory (BASE) Achieve Final Remedial Investigation (RI) and concurrence (e.g., receipt of Final Feasbility Study (FS) Report within 24 months from award of the task order for the following sites: RI/FS) **HAA-17: TCE Groundwater Contamination** HAA-15: MCA Barracks Site HAA-01: Fire Training Site Army approval through the (Option) Complete a Proposed Plan/Record of Decision COR/Army and Regulatory 12 months from award of the CLIN or completion of the concurrence (e.g., receipt of Final Final Feasibility Study or which is later: Proposed Plan and ROD HAA-17: TCE Groundwater Contamination HAA-15: MCA Barracks Site HAA-01: Fire Training Site Note: Option may be exercised no later than 60 days following COR approval of the Final FS Report. Army approval through the (Option) Complete Remedial Design/Remedial Action-Construction (RA-C) at the follow site no later than 12 COR/Army and Regulatory concurrence (e.g., receipt of Final months from receipt of the Final RODs for the following RD/RA and performance reports sites: documenting system performance HAA-01: Fire Training Site against RAOs) HAA-15: MCA Barracks Site HAA-17: TCE Groundwater Contamination

Note: Option may be exercised no later than 60 days following COR approval of the Draft ROD Report.

(Option) Perform Remedial Action Operation at the following site for 12 months.

HAA-01: Fire Training Site

• HAA-15: MCA Barracks Site

HAA-17: TCE Groundwater Contamination

One option CLIN

Note 1: Option CLIN may be exercised no later than 60 days following COR approval of the Draft RA-C Report.

Note 2: Upon achievement of response complete, the contractor shall petition GAEPD for removal from the Hazardous Site Inventory (HSI) listing for each site.

Army approval through the COR/Army and Regulatory concurrence (e.g., receipt of required performance reports.

(Option) Perform any necessary Remedial Action
Operations beginning 1 January 2015 and/or Long-term
Management (LTM) including applicable
system/monitoring network optimization and
maintenance, Land Use Control (LUC) inspections
and/or maintenance and complete any required
effectiveness monitoring reports for the duration of the
task order. In addition, the contractor shall provide an

exit strategy/ramp down strategy and discuss any

optimization efforts completed as part of the annual

HAA-13: Pump Houses #1

reports:

Annual option CLINs to be exercised for 12 months of effort NLT one year from award of the previous CLIN for an additional 36 months. The final option shall cover 6 months.

Army approval through the COR and Regulatory concurrence (e.g., receipt of documentation confirming RC; RA(O)/LTM exit or ramp down strategy; RA(O)/LTM reports incorporating requirements of the exit or ramp down strategy).

(Option) Develop well abandonment plan for all sitewide wells no longer required to support remediation at this site and remove those wells in accordance with applicable requirements. Army approval through the COR and Regulatory concurrence

ONE OPTION CLIN may be exercised NLT 48 months from the award of the task order.

- 1.4 Scope: The scope of this is defined in Table 1.
- 1.5 <u>Period of Performance</u>: The period of performance shall not exceed five years from the date of award.

1.6 General Information:

- 1.6.1 Quality Control (QC): The Contractor shall comply with Section C.5.9 of the Basic Contract. QC is the responsibility of the Contractor. The Contractor shall deliver quality services to the Government. The Contractor shall develop, implement and maintain an effective Quality Control System which includes a written Quality Control Plan (QCP). The QCP shall implement standardized procedure/methodology for monitoring and documenting contract performance to ensure all contract requirements are met. The Contractors' QCP shall contain a systematic approach to monitor operations to ensure acceptable services/products are provided to the Government. The OCP, as a minimum, shall address continuous process improvement; procedures for scheduling, conducting and documentation of inspection; discrepancy identification and correction; corrective action procedures to include procedures for addressing Government discovered non-conformances; procedures for root cause analysis to identify the root cause and root cause corrective action to prevent re-occurrence of discrepancies; procedures for trend analysis; and procedures for collecting and addressing customer feedback/complaints. The Contractor shall upon request provide to the Government their quality control documentation. The QCP, in hard copy (3 copies) and electronically, is to be delivered to the KO and COR within 30 days after contract award. In addition, three copies of a comprehensive written QCP shall be submitted to the KO and COR within 5 working days when changes are made thereafter. After acceptance of the QCP the Contractor shall receive the KO's acceptance in writing of any proposed change to their QC system/plan.
- 1.6.2 <u>Quality Assurance (QA)</u>: The Government shall evaluate the Contractor's performance under this contract in accordance with the Quality Assurance Surveillance Plan (QASP). This plan is a Government only document focused on what the Government shall do to assure that the Contractor has performed in accordance with the requirements of the contract.
- 1.6.3 <u>Federal Government Holidays:</u> The Contractor may work at the Installation on the following Federal Government Holidays provided they make the proper arrangements and it is

agreed upon by the COR. The Contractor shall provide services on Federal Government Holidays if it is necessary in order to execute the PWS.

New Years Day Martin Luther King Jr.'s Birthday Presidents Day

3rd Monday of January 3rd Monday of February Last Monday of May 4th day of July

1st day of January

Memorial Day Independence Day Labor Day

1st Monday of September 2nd Monday of October 11th day of November 4th Thursday of November

Columbus Day Veterans Day Thanksgiving Day Christmas Day

25th day of December

- 1.6.4 Hours of Operation: The Contractor shall conduct business on the Installation as required to complete the activities required to meet the contract requirements in this PWS except when the Government facility is closed due to local or national emergencies, administrative closings, or similar Government directed facility closings. The Contractor shall at all times maintain an adequate workforce for the timely completion of all tasks defined within this PWS. When hiring personnel, the Contractor shall keep in mind that the stability and continuity of the workforce is essential.
- 1.6.5 <u>Place of Performance</u>: The work to be performed under this contract shall be performed primarily at Hunter Army Airfield, Georgia or the offices of the Contractor
- 1.6.6 Type of Contract: The Government will award a firm-fixed price contract.
- 1.6.7 <u>Security Requirements</u>: The Contractor shall meet applicable security requirements to include Anti-Terrorism (AT) and Operational Security (OPSEC) as specified in guidance and regulations as outlined below.
- 1.6.7.1 AT Level I Training: All Contractor employees, to include subcontractor employees, requiring access Army installations, facilities and controlled access areas shall complete AT Level I awareness training within 60 calendar days after contract start date. The Contractor shall submit certificates of completion for each affected contractor employee and subcontractor employee, to the COR or to the contracting officer 30 calendar days after completion of training by all employees and subcontractor personnel. AT level I awareness training is available at the following website: https://atlevel1.dtic.mil/at.
- 1.6.7.2 Access and General Protection/Security Policy and Procedures: Contractor and all associated sub-contractors employees shall comply with applicable installation, facility and area commander installation/facility access and local security policies and procedures (provided by government representative. Contractor workforce shall comply with all personal identity verification requirements as directed by DOD, Headquarter, Department of Army (HQDA) and/or local policy. In addition to the changes otherwise authorized by the changes clause of this contract, should the Force Protection Condition (FPCON) at any individual facility or installation change, the Government may require changes in contractor security matters or processes.

1.6.7.3 <u>iWATCH Training</u>: Contractor and all associated sub-contractors shall brief all employees on the local iWATCH program (training standards provided by the installation Anti-Terrorism Officer (ATO)). This local developed training will be used to inform employees of the types of behavior to watch for and instruct employees to report suspicious activity to the COR. This training shall be completed within 60 calendar days of contract award and within 60 calendar days of new employees commencing performance with the results reported to the COR no later than (NLT) 60 calendar days after contract award.

1.6.7.4 OPSEC: The Contractor shall develop an OPSEC Standing Operating Procedure (SOP)/Plan within 90 calendar days of contract award, to be reviewed and approved by the responsible Government OPSEC officer, per Army regulation (AR) 530-1, Operations Security. This SOP/Plan will include the Government's critical information, why it needs to be protected, where it is located, who is responsible for it, and how to protect it. In addition, the Contractor shall identify an individual who will be an OPSEC Coordinator. The Contractor shall ensure this individual becomes OPSEC Level II certified per AR 530-1.

In accordance with AR 530-1, Operations Security, new contractor employees shall complete Level I OPSEC training within 30 calendar days of their reporting for duty. All contractor employees shall complete annual OPSEC awareness training.

- 1.6.7.5 <u>Physical Security:</u> The Contractor shall be responsible for safeguarding all Government equipment, information and property provided for Contractor use. At the close of each work period, Government facilities, equipment, and materials shall be secured.
- 1.6.7.5.1 Key Control: The Contractor shall establish and implement methods of making sure all keys/key cards issued to the Contractor by the Government are not lost or misplaced and are not used by unauthorized persons. NOTE: All references to keys include key cards. No keys issued to the Contractor by the Government shall be duplicated. The Contractor shall develop procedures covering key control that shall be included in the Quality Control Plan. Such procedures shall include turn-in of any issued keys by personnel who no longer require access to locked areas. The Contractor shall immediately report any occurrences of lost or duplicate keys/key cards to the KO and COR.

In the event keys, other than master keys, are lost or duplicated, the Contractor shall, upon direction of the KO, re-key or replace the affected lock or locks; however, the Government, at its option, may replace the affected lock or locks or perform re-keying. When the replacement of locks or re-keying is performed by the Government, the total cost of re-keying or the replacement of the lock or locks shall be deducted from the monthly payment due the Contractor. In the event a master key is lost or duplicated, all locks and keys for that system shall be replaced by the Government and the total cost deducted from the monthly payment due the Contractor.

The Contractor shall prohibit the use of Government issued keys/key cards by any persons other than the Contractor's employees. The Contractor shall prohibit the opening of locked areas by Contractor employees to permit entrance of persons other than Contractor employees engaged in the performance of assigned work in those areas, or personnel authorized entrance by the KO.

- 1.6.5.2 <u>Lock Combinations</u>: The Contractor shall establish and implement methods of ensuring that all lock combinations are not revealed to unauthorized persons. The Contractor shall ensure that lock combinations are changed when personnel having access to the combinations no longer have a need to know such combinations. These procedures shall be included in the Contractor's Quality Control Plan.
- 1,6.6 Special Qualifications: See section C.6 of the Basic Contract.
- 1.6.7 Post Award Conference/Periodic Progress Meetings: The Contractor shall attend any post award conferences and periodic progress meetings convened by the contracting activity and/or COR. Periodic progress meetings may be conducted periodically to review the Contractor's performance. At these meetings the KO will apprise the Contractor of how the Government views the Contractor's performance and the Contractor shall apprise the Government of problems, if any, being experienced. Appropriate action shall be taken to resolve outstanding issues. These meetings shall be at no additional cost to the Government. The Contractor shall provide meeting minutes within seven calendar days after each meeting for review by the KO and COR.
- 1.6.8 Contracting Officer Representative (COR): The COR will be identified by separate letter. The COR monitors all technical aspects of the contract and assists in contract administration. The COR is authorized to perform the following functions: assure that the Contractor performs the technical requirements of the contract; perform inspections necessary in connection with contract performance; maintain written and oral communications with the Contractor concerning technical aspects of the contract; issue written interpretations of technical requirements, including Government drawings, designs, and specifications; monitor Contractor's performance and notify both the KO and Contractor of any discrepancies; coordinate availability of Government furnished property; and facilitate site entry of Contractor personnel. A letter of designation issued to the COR, a copy of which is sent to the Contractor, states the responsibilities and limitations of the COR, especially with regard to changes in cost or price, estimates or changes in delivery dates. The COR is not authorized to change any of the terms and conditions of the resulting order.
- 1.6.9 Certification and Approval of Project Milestones and Deliverables: The COR will be responsible for contract management, inspection, oversight, review, and approval activities. Certification and approval of project milestones by the COR is necessary before distribution of payments. Final acceptance of milestone completion shall include appropriate acceptance of site remediation documentation by regulators. Certification by the Army is contingent upon the Contractor performing in accordance with the terms and conditions of the contract.
- 1.6.10 Key Personnel: See Section C.6 of the Basic Contract.
- 1 Identification of Contractor Employees: The Contractor (to include subcontractors) shall provide each employee an Identification (ID) Badge, which includes at a minimum, the Company Name, Employee Name and a color photo of the employee. ID Badges for Key Personnel shall also indicate their job title. ID Badges shall be worn at all times during which the employee is performing work under this contract. Each Contractor (to include subcontractors)

employees shall wear the ID Badge in a conspicuous place on the front of exterior clothing and above the waist except when safety or health reasons prohibit. The Contractor (to include subcontractors) shall be responsible for collection of ID Badges upon completion of the contract or termination of employee. A listing of issued identification cards shall be furnished to the KO prior to the contract performance date and updated as needed to reflect Contractor and Subcontractor personnel changes. All contract personnel attending meetings, or working in other situations where their Contractor status is not obvious to third parties shall identify themselves as such to avoid creating an impression in the minds of members of the public that they are Government officials.

- 1.6.12 Supervision of Contractor Employees: The Government will not exercise any supervision or control over Contractor or subcontractor employees while performing work under the contract. Such employees shall be accountable solely to the Contractor, not the Government. The Contractor, in turn, shall be accountable to the Government for Contractor or subcontractor employees.
- 1.6.13 Contractor Travel: See Section C.8.2 of the Basic Contract.
- 1.6.14 Other Direct Costs: This category includes travel (outlined in 1.6.14), document reproduction, and shipping expenses associated with providing the environmental remediation services in this PWS.
- 1.6.15 Data Rights: See Section C.8.9.1 of the Basic Contract. In addition, the Contractor shall ensure that all documents or reports produced by the Contractor are suitably marked as Contractor products or that Contractor participation is appropriately disclosed.
- 1.6.16 Organizational Conflict of Interest: See Section C.8.12 of the Basic Contract.
- 1,6.17 Phase In /Phase Out Period: Not applicable.
- 1.6.18 Stop Work: Section C.8.10.1 of the Basic Contract covers this issue and applies to this task order. Note: CWM, MEC and radiological materials are not anticipated to occur nor covered under the work in this task order.
- 1.6.19 Environmental Responsibility Considerations: The Contractor shall comply with section C.8.11 of the Basic Contract.
- 1.6.20 Noncompliance: Any incident of noncompliance noted by the Contractor shall immediately be brought to the attention of the COR and KO telephonically and then by written notice. Nothing in this contract shall relieve the Contractor of its responsibility to comply with applicable laws and regulations.

PART 2 DEFINITIONS & ACRONYMS

- 2. General: The following definitions and acronyms apply to this task order.
- 2.1 Definitions: The following definitions apply to this task order.
- 2.1.1 Approved Variances: Refers to the ability to make in the field revisions to planned field work as outlined in the approved Environmental Investigation Plan. These revisions must be coordinated with COR and may require regulator approval prior to acceptance of change.
- 2.1.2 Contractor Administrator: The official Government representative delegated authority by the Contracting Officer to administer a contract. This individual is normally a member of the appropriate Contracting/Procurement career field and advises on all technical contractual matters.
- 2.1.3 Contractor: A supplier or vendor awarded a contract to provide specific supplies or services to the Government. The term used in this contract refers to the prime.
- 2.1.4 Contracting Officer: A person with authority to enter into, administer, and/or terminate contracts, and make related determinations and findings on behalf of the Government. Note: The only individual who can legally bind the Government.
- 2.1.5 Contracting Officer Representative: An employee of the U.S. Government appointed by the contracting officer to administer the contract. Such appointment shall be in writing and shall state the scope of authority and limitations. This individual has authority to provide technical direction to the Contractor as long as that direction is within the scope of the contract, does not constitute a change, and has no funding implications. This individual does NOT have authority to change the terms and conditions of the contract.
- 2.1.6 Defective Service: A service output that does not meet the standard of performance associated with the Performance Work Statement.
- 2.1.7 Deliverable: Anything that can be physically delivered, but may include non-manufactured things such as meeting minutes or reports.
- 2.1.8 Government-Furnished Property: Property in the possession of the Government made available to the Contractor to use on this task order.
- 2.1.9 Key Personnel: Contractor personnel that are evaluated in a source selection process and that may be required to be used in the performance of a contract by the Key Personnel listed in the PWS. When key personnel are used as an evaluation factor in best value procurement, an offer can be rejected if it does not have a firm commitment from the persons that are listed in the proposal.

- 2.1.10 Physical Security: Actions that prevent the loss or damage of Government property.
- 2.1.11 Project-Related Information: Includes all previous environmental restoration documentation of a technical nature developed by the Army and previous Army Contractors for the sites specified in this PWS, and all the documentation developed by the Contractor in order to achieve the performance objectives specified in this PWS.
- 2.1.12 Quality Assurance: The Government procedures to verify that services being performed by the Contractor are acceptable in accordance with established standards and requirements of this contract.
- 2.1. 13 Quality Assurance Specialist: An official Government representative concerned with matters pertaining to the contract administration process and quality assurance/quality control. Acts as technical advisor to the Contracting Officer in these areas.
- 2.1.14 Quality Assurance Surveillance Plan: An organized written document specifying the surveillance methodology to be used for surveillance of Contractor performance.
- 2.1.15 Quality Control: All necessary measures taken by the Contractor to assure that the quality of an end product or service shall meet contract requirements.
- 2.1.16 Subcontractor: One that enters into a contract with a prime Contractor. The Government does not have privity of contract with the subcontractor.
- 2.1.17 Exit Strategy/Ramp Down Strategy and Optimization: Trend analysis of historical and current data and/or other quantitative (such as future costs to the Army) or qualitative considerations that will lead to a reduction in the requirements themselves or the timeframe in which those requirements are to be achieved in a cost effective manner.

Acronyms: The following acronyms apply to this task order.

AEDB-R Army Environmental Database - Restoration Module

AR Army Regulation
AT Anti-Terrorism
ATO Anti-Terrorism Officer

CERCLA Comprehensive Environmental Response, Compensation and Liability Act

CLIN Contract Line Item Number
CFR Code of Federal Regulations
CMR Contract Manpower Reporting

CONUS Continental United States (excludes Alaska and Hawaii)

COR Contracting Officer Representative

CR Compliance Restoration
CWM Chemical Warfare Materiel
DA Department of the Army

DD250 Department of Defense Form 250 (Receiving Report)
DD254 Department of Defense Contract Security Requirement List

DERP Defense Environmental Restoration Program

DFARS Defense Federal Acquisition Regulation Supplement

DMDC Defense Manpower Data Center

DOD Department of Defense

DOD ELAP DOD Environmental Laboratory Accreditation Program

DODI DOD Instruction Number

EMS Environmental Management System

ERIS Environmental Restoration Information System

ERMA Environmental Remediation Multiple Award

FAR Federal Acquisition Regulation

FFP Firm Fixed Price

GAEPD Georgia Environmental Protection Division

HAAF Hunter Army Airfield HSI Hazardous Site Inventory

HQAES Headquarters Army Environmental Systems

HQDA Headquarters, Department of Army
HSP Health and Safety Plan
ID Identification Badge

IRIS Integrated Risk Information System IRP Installation Restoration Program

KO Contracting Officer

MCL Maximum Contaminant Limit
MEC Munitions and Explosives of Concern

NCP National Contingency Plan

OCI Organizational Conflict of Interest

ODC Other Direct Costs
OPSEC Operational Security

OSHA Occupational Safety and Health Administration

P/C Pollutants or contaminants
PBA Performance-Based Acquisition
PMP Project Management Plan

POC Point of Contact PP Proposed Plan

PPE Personal Protective Equipment
PRS Performance Requirements Summary

PWS Performance Work Statement

OA Quality Assurance

QAP Quality Assurance Program
QAPP Quality Assurance Project Plan
QASP Quality Assurance Surveillance Plan

QC Quality Control
QCP Quality Control Plan
RAB Restoration Advisory Board

RC Response Complete

RCRA Resource Conservation and Recovery Act
READ Repository of Environmental Documents

RfD Reference Dose

RI/FS Remedial Investigation/Feasibility Study

RIP Remediation in Place ROD Record of Decision ROE Right of Entry

RTOP Request for Task Order Proposal SAP Sampling and Analysis Plan

SARA Superfund Amendments and Reauthorization Act

SC Site Closeout

SOP Standard Operating Procedure

TCE Trichloroethylene

SSHP Site Safety and Health Plan

TE Technical Exhibit

TRC Technical Review Committee

USACE EMCX United States Army Corps of Engineers Environmental and Munitions

Center of Expertise

UFP-QAPP Uniform Federal Policy for Quality Assurance Project Plans

USEPA United State Environmental Protection Agency

PART 3 GOVERNMENT-FURNISHED PROPERTY, EQUIPMENT, AND SERVICES

3. Government Furnished Resources: The Government will comply with Section C.8.3 of the Basic Contract.

The Government will furnish space for all meetings.

PART 4 CONTRACTOR FURNISHED ITEMS AND SERVICES

4. Contractor Furnished Items and Responsibilities: The Contractor shall possess and supply all the required expertise, knowledge, equipment, tools and any other resources required to meet or exceed the Army's requirements/objectives identified in this PWS in accordance with established industry standards. The Contractor shall obtain all permits, licenses, approvals, and/or certificates required or necessary to accomplish the work. When the work to be performed requires facility clearances, such as digging or drilling permits, the Contractor shall obtain such clearances and/or permits, with the assistance of the installation point of contact, prior to any drilling or excavating operations. The Contractor shall coordinate all such work with Installation maintenance personnel prior to performing work. Contractors on environmental sites shall perform their own utility checks based on Installation-supplied utility maps. The Contractor shall comply with all Installation or site-specific time and procedural requirements (Federal, state, and local) described in the permits obtained. The Contractor shall provide the necessary personnel and equipment to execute this PWS successfully. The Contractor shall determine the requirements for licensed professionals and certifications and provide all required training necessary for compliance with regulations. The Contractor shall provide all support activities necessary to ensure the safe and effective accomplishment of all work.

In addition, the Contractor shall be responsible for the items listed in Section C.8.4 of the Basic Contract and the following items:

- All solid waste generated under this contract shall be the responsibility of the Contractor.
 This includes removal, proper disposal, and all required associated paperwork.
- The Contractor shall be responsible for any damage caused to property of the United States (Federal property) by the activities of the Contractor under this contract and shall exercise due diligence in the protection of all property located on the premises against fire or damage from any and all other causes. Any property of the United States damaged or destroyed by the Contractor incident to the exercise of the privileges herein granted shall be promptly repaired or replaced by the Contractor to a condition satisfactory to the COR or reimbursement is to be made by the Contractor sufficient to restore or replace the property to a condition satisfactory to the COR.
- Access to all sites will require coordination with HAAF tenants; the Contractor shall work jointly with Army personnel to accomplish appropriate coordination.
- A dig permit shall be required for any intrusive work on HAAF. Dig permit review and approval typically requires at least ten business days.
- Coordination with the Army/COR and the Installation in order to gain access to available
 infrastructure (e.g., buildings, roadways, waste management units, other Installation
 facilities) and utilities (e.g., electric power and telephone lines, natural gas and water

supply distribution pipelines, and wastewater discharge conveyances), to execute this PWS.

- Meeting space, audiovisual equipment for all meetings including the RAB should one be constituted in the future.
 - The provision and cost of all utilities associated with this task order.
 - Any other necessary resources needed to achieve the performance objective of this PWS.

Comment [khg3]: At this point, is there a RAB? There doesn't appear to be from a note elsewhere in the document. Recommend you rephrase this to, "including a RAB should one be constituted in the future."

Comment [jpb4]: In Part 5 PWS changed to address legal comment

PART 5 SPECIFIC TASKS

- 5. Specific Tasks: The specific tasks required to meet the contract requirements of this task order include all of the items in the Environmental Remediation Multiple Award (ERMA) Basic Contract PWS except as noted below:
- 5.1 Performance Thresholds: The following performance thresholds apply to this task order.
- 5.1.1 Project Management: The Contractor shall comply with Section C.4 of the Basic Contract. The Contractor shall update the PMP annually or more frequently, as warranted. The performance threshold for project management is there shall be no schedule slippage deemed the fault of the contractor for which the Contractor does not present a viable plan to make up the lost time.
- 5.1.2 Health and Safety Requirements: The Contractor shall comply with Section C.5.7.1 of the Basic Contract. The performance threshold for this health and safety requirements is zero Class C safety violations where the contractor is determined at fault.
- 5.1.3 Approval of Deliverables: The Contractor shall comply with Sections C.5.17 of the Basic Contract regarding approval of the deliverables. All documents shall be produced with at least draft, draft-final, and final versions except the PMP. The performance threshold for approvals is there may be no more than two (2) revisions of deliverables for either Army or Regulator comments.
- 5.1.4 Site Plans: The Contractor shall comply with Section 5.12 of the Basic Contract. The performance threshold for fieldwork activities is 100% compliance with the Final Plans and SAP, and the approved variances.
- 5.1.5 <u>Analytical Quality Control</u>: The Contractor shall comply with Section C.5.9 of the Basic Contract. The performance threshold for sample results is 100% compliance with Quality Assurance/Quality Control (QA/QC) requirements established in the approved Quality Assurance Project Plan (QAPP) and Sampling and Analysis Plan (SAP).
- 5.2 <u>Project Information Repositories and Administrative Record:</u> the Contractor shall comply with Section C.5.10 of the Basic Contract. The Project Information Repository is currently maintained at Fort Stewart, Office of the DPW. The Administrative Record/Information Repositories for DERP activities are located at Fort Stewart, Office of the DPW.
- 5.3 Army Environmental Database and Environmental Restoration Information System: The Basic Contract Section C.5.11 describes these requirements. The Army is transitioning to a new database system, Headquarters Army Environmental Systems (HQAES). The Army, through the COR, will provide data specifications for the systems as warranted. The Contractor shall comply with all applicable requirements for data validation and submission.

- 5.4 <u>Project Stakeholders and Regulatory Involvement:</u> The Basic Contract Sections 5. 14 and 5.15 describe these requirements. For this task order, project stakeholders and the Regulators involved pursuant to Section C.5.14 and C.15 of the Basic Contract include the Army and the Georgia Environmental Protection Division (GAEPD).
- 5.5 Public Involvement: The Basic Contract Section 5.16 describes this requirement. The contractor shall provide personnel who can (1) effectively present complex technical issues to the U.S. Government personnel; (2) present the U.S. Government's position to public and media officials regarding those issues, and (3) possess the necessary technical skills to execute the activities included under the TO. In addition, the Contractor shall provide presentations of data or attend meetings to discuss the work completed in this task order. The Contractor shall make no public announcements or disclosures relative to information contained or developed under this contract, except as requested by the COR. This also applies to U.S. Government-owned information made available to the Contractor.

At this time, there is not sufficient community interest to establish and sustain a RAB or Technical Review Committee (TRC) for either site. The Installation will conduct biannual public interest assessments and, if the assessments indicate adequate public interest exists, will establish a RAB and activities required to support the RAB meetings will be required.

The Contractor shall be responsible for developing/updating a Community Relations Plan (CRP) for the Installation every 3 years (last updated 2012). The deliverable shall be given to the COR and made final through Army approval through the COR and Regulator concurrence (e.g., formal documentation accepting the reviews and any corrections).

- 5.6 Contractor's Guarantee and Insurance Specifications: Section C.8.5 and C.8.6 covering the Contractor's Guarantee and Insurance Specifications, respectively, do not apply to this task order.
- 5.7 CERCLA Section 121 (c) five-year review: The Contractor shall not complete the review as it will be completed by the United States Army Corps of Engineers Environmental and Munitions Center of Expertise (USACE EMCX). The Contractor shall be responsible for supporting the completion of the review by, at a minimum, providing the data the USACE EMCX will need in the format specified by the COR; review and comment on the draft and draft-final review reports; and participate in the kick off call, site walk and interviews, if requested by the COR.
- 5.8 Delivered Equipment: All equipment delivered and installed during this task order shall become property of the U.S. Government at the end of the contract.

APPLICABLE PUBLICATIONS

6. APPLICABLE PUBLICATIONS

- 6.1 Environmental Requirements: The Contractor shall perform all the necessary environmental remediation work as required to meet the contract requirements of this PWS in a manner that is consistent with the regulatory drivers listed in Section1.2 of this PWS along with any applicable orders or permits, all previously agreed-upon agreements or guidance at each site, and consistent with all relevant Department of Defense (DoD) and Army policies. The Contractor shall identify applicable Federal, state and local laws and regulations; applicable Installation-specific orders, agreements, or rules; and perform its work in accordance with said authorities.
- 6.2 Environmental Management System (EMS): The Contractor shall review and fully understand "Executive Order 13423 -- Strengthening Federal Environmental, Energy, and Transportation Management," in particular those requirements pertaining to the EMS. The Contractor shall also be required to submit in writing that they shall review and adhere to the installation's environmental management system, including the environmental policy and significant aspects / impacts. These items will be provided by the COR.

Attachment A Performance Requirements Summary

Performance Objective	Performance Standards	Performance Threshold	Incentive/Disincentives
Health and Safety: PWS Para 5.1.2. The Contractor shall maintain Health and Safety Requirements.	Compliant with applicable federal, state, and local laws and regulations	Zero Class C safety violations where the contractor is determined at fault.	Trends of less than acceptable performance could result in termination of task order and/or negative CPARs ratings.
Schedule: PWS 5.1.1. The Contractor shall meet the schedule requirements of the PMP that will achieve the Major Milestones and Required Completion dates.	Compliant with this PWS, Regulator, and all applicable federal, state, and local laws and regulations.	No slippage deemed the fault of the contractor for which the Contractor does not present a viable plan to make up the lost time.	Failure to meet the Performance-Based Milestones/Objectives could result in nonpayment, termination of the task order, and/or negative CPARs ratings.
Approvals: PWS 5.1.3. The Contractor shall obtain Army and Regulatory approval of all project deliverables.	Compliant with this PWS, Regulator, and all applicable federal, state, and local laws and regulations.	No more than two (2) revisions of deliverables for either Army or Regulator comments.	Failure to complete compliant documents could result in mission failure or schedule delay which would result in nonpayment for work toward the applicable CLINs, termination of the task order, and/or negative CPARs ratings.

Performance Objective	Performance Standards	Performance Threshold	Incentive/Disincentives
Field Activities: PWS Para 5.1.4. The Contractor shall perform all field work and sampling activities required in this PWS in compliance with accepted industry standards, approved site plans, and Army and Regulatory approvals.	Performed in compliance with the Final Work Plans/SAP. Though field changes are acceptable due to site conditions, these changes must first be approved by the COR, and upon COR's discretion by Regulators.	100% compliance with the Final Plans and SAP, and the approved variances.	If field work is not completed in accordance with the Final Work Plans, SAP and any approved variances, the contractor may be required to rework/re-sample at their cost to ensure completion of performance objectives. Additionally, failure to receive approval of field changes may result in negative CPARs ratings.
Sample Results: PWS Para 5.1.5. Sample results shall be acceptable to the Army and Regulators.	Sample results shall meet quality assurance goals/requirements to include any applicable SOPs.	100% compliance with QA/QC requirements established in the QAPP and SAP.	Failure to have sample results which fall within QA/QC requirements could result in contractor re-sampling at their cost, schedule delay or mission failure. Failure to meet the Performance-Based Milestones/Objectives could result in nonpayment, termination of the task order, and/or negative CPARs ratings.

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REGISTER OF WAGE DETERMINATIONS UNDER THE SERVICE CONTRACT ACT By direction of the Secretary of Labor

U.S. DEPARTMENT OF LABOR EMPLOYMENT STANDARDS ADMINISTRATION WAGE AND HOUR DIVISION WASHINGTON D.C. 20210

Wage Determination No.: 2005-2141

Division of Diane C. Koplewski

Wage Determinations Director

Revision No.: 14 Date Of Revision: 06/19/2013

States: Georgia, South Carolina

Area: Georgia Counties of Appling, Bacon, Bryan, Bulloch, Candler, Chatham, Effingham, Evans, Jeff Davis, Liberty, Long, McIntosh, Screven, Tattnall, Toombs, Wayne

South Carolina Counties of Hampton, Jasper

Fringe Benefits Required Follow the Occupational Listing OCCUPATION CODE - TITLE FOOTNOTE	RATE
01000 - Administrative Support And Clerical Occupations	
01011 - Accounting Clerk I	11.94
01012 - Accounting Clerk II	13.40
01013 - Accounting Clerk III	14.99
01020 - Administrative Assistant	16.85
01040 - Court Reporter	13.33
01051 - Data Entry Operator I	10.82
01052 - Data Entry Operator II	12.82
01060 - Dispatcher, Motor Vehicle	18.34
01070 - Document Preparation Clerk	11.45
01090 - Duplicating Machine Operator	11.45
01111 - General Clerk I	10.83
01112 - General Clerk II	11.82
01113 - General Clerk III	13.26
01120 - Housing Referral Assistant	14.86
01141 - Messenger Courier	10.37
01191 - Order Clerk I	10.77
01192 - Order Clerk II	12.93
01261 - Personnel Assistant (Employment) I	17.24
01262 - Personnel Assistant (Employment) II	20.67
01263 - Personnel Assistant (Employment) III	24.58
01270 - Production Control Clerk	23.11
01280 - Receptionist	10.70
01290 - Rental Clerk	11.58
01300 - Scheduler, Maintenance	11.91
01311 - Secretary I	11.91
01312 - Secretary II	13.33
01313 - Secretary III	14.86
01320 - Service Order Dispatcher	14.92
01410 - Supply Technician	16.85
01420 - Survey Worker	13.73
01531 - Travel Clerk I	12.02
01532 - Travel Clerk II	12.84
01533 - Travel Clerk III	13.86
01611 - Word Processor I	11.68
01612 - Word Processor II	13.13
01613 - Word Processor III	14.69
05000 - Automotive Service Occupations	
05005 - Automobile Body Repairer, Fiberglass	20.50

05010	- Automotive Electrician	16.31
05040	- Automotive Glass Installer	15.44
	- Automotive Worker	15.75
	- Mobile Equipment Servicer	13.74
	- Motor Equipment Metal Mechanic	17.21
	- Motor Equipment Metal Worker	15.44
	- Motor Vehicle Mechanic	17.21
	- Motor Vehicle Mechanic Helper	12.88
	- Motor Vehicle Upholstery Worker	14.61 15.44
	- Motor Vehicle Wrecker	16.31
	- Painter, Automotive	15.44
	- Radiator Repair Specialist	10.86
	- Tire Repairer - Transmission Repair Specialist	17.21
	Food Preparation And Service Occupations	17.21
	- Baker	11.67
	- Cook I	9.98
	- Cook II	11.40
	- Dishwasher	8.40
	- Food Service Worker	9.69
•	- Meat Cutter	13.03
	- Waiter/Waitress	9.39
	Furniture Maintenance And Repair Occupations	
	- Electrostatic Spray Painter	18.52
	- Furniture Handler	12.95
09080	- Furniture Refinisher	20.14
09090	- Furniture Refinisher Helper	15.40
09110	- Furniture Repairer, Minor	17.71
09130	- Upholsterer	20.14
11000 -	General Services And Support Occupations	
11030	- Cleaner, Vehicles	10.63
11060	- Elevator Operator	9.58
	- Gardener	13.28
	- Housekeeping Aide	9.58
	- Janitor	9.58
	- Laborer, Grounds Maintenance	10.84 8.20
·	- Maid or Houseman	
	- Pruner	10.78
	- Tractor Operator	12.46 10.84
	- Trail Maintenance Worker - Window Cleaner	10.84
		10.44
	Health Occupations - Ambulance Driver	15.67
	- Breath Alcohol Technician	16.08
	- Certified Occupational Therapist Assistant	22.06
	- Certified Physical Therapist Assistant	22.06
	- Dental Assistant	14.09
	- Dental Hygienist	32.84
	- EKG Technician	22,85
	- Electroneurodiagnostic Technologist	22.85
	- Emergency Medical Technician	15.67
	- Licensed Practical Nurse I	14.37
	- Licensed Practical Nurse II	16.08
	- Licensed Practical Nurse III	17.93
	- Medical Assistant	12.64
12130	- Medical Laboratory Technician	13.46
	- Medical Record Clerk	13.31
12190	- Medical Record Technician	14.89
12195	- Medical Transcriptionist	16.94
	- Nuclear Medicine Technologist	35.33
12221	- Nursing Assistant I	10.09

12222	- Nursing Assistant II		11.34
	- Nursing Assistant III		12.38
	- Nursing Assistant IV		13.89
	- Optical Dispenser		17.75
	- Optical Technician		13.41
	- Pharmacy Technician		15.16
	- Phlebotomist		13.89
	- Radiologic Technologist		22.50
	- Registered Nurse I		22.85
	- Registered Nurse II		27.94
	- Registered Nurse II, Specialist		27.94
	- Registered Nurse III		33.07
	- Registered Nurse III, Anesthetist		33.80
	- Registered Nurse IV		39.40
	- Scheduler (Drug and Alcohol Testing)		19.92
	Information And Arts Occupations		
	- Exhibits Specialist I		19.60
	- Exhibits Specialist II		24.29
	- Exhibits Specialist III		29,71
	- Illustrator I		19.60
	- Illustrator II		24.29
	- Illustrator III		29.71
	- Librarian		26.89
	- Library Aide/Clerk		12,62
	- Library Information Technology Systems		24.29
	strator		
	- Library Technician		17.42
	- Media Specialist I		17.52
	- Media Specialist II		19.60
	- Media Specialist III		21.86
	- Photographer I		15.24
	- Photographer II		17.12
	- Photographer III		21.04
	- Photographer IV		25.73
	- Photographer V		31.13
	- Video Teleconference Technician		17.52
	Information Technology Occupations		
	- Computer Operator I		15.48
	- Computer Operator II		17.25
	- Computer Operator III		21.23
	- Computer Operator IV		23.62
	- Computer Operator V		26.13
	- Computer Programmer I	(see 1)	20.15
	- Computer Programmer II	(see 1)	26.57
	- Computer Programmer III	(see 1)	
	- Computer Programmer IV	(see 1)	
	- Computer Systems Analyst I	(see 1)	
	- Computer Systems Analyst II	(see 1)	
	- Computer Systems Analyst III	(see 1)	15 40
	- Peripheral Equipment Operator		15.48
	- Personal Computer Support Technician		23.62
	Instructional Occupations		00.00
	- Aircrew Training Devices Instructor (Non-Rated)		28.92
	- Aircrew Training Devices Instructor (Rated)		34.99
	- Air Crew Training Devices Instructor (Pilot)		41.11
	- Computer Based Training Specialist / Instructor		28.92
	- Educational Technologist		24.24
	- Flight Instructor (Pilot)		41.11
	- Graphic Artist		
	- Technical Instructor		21.66
15095	- Technical Instructor/Course Developer		26.49

15110	- Test Proctor	17.47
	- Tutor	17.47
	Laundry, Dry-Cleaning, Pressing And Related Occupations	
	- Assembler	8.67
	- Counter Attendant	8.67
	- Dry Cleaner	10.52 8.67
	- Finisher, Flatwork, Machine	8.67
	- Presser, Hand - Presser, Machine, Drycleaning	8.67
	- Presser, Machine, Shirts	8.67
	- Presser, Machine, Wearing Apparel, Laundry	8.67
	- Sewing Machine Operator	11.17
	- Tailor	11.83
	- Washer, Machine	9.17
	Machine Tool Operation And Repair Occupations	
	- Machine-Tool Operator (Tool Room)	18.57
19040	- Tool And Die Maker	22.49
21000 -	Materials Handling And Packing Occupations	
21020	- Forklift Operator	15.30
	- Material Coordinator	23.11
	- Material Expediter	23.11
	- Material Handling Laborer	14.26
	- Order Filler	12.65
	- Production Line Worker (Food Processing)	15.30
	- Shipping Packer	15.62 15.62
	- Shipping/Receiving Clerk - Store Worker I	11.72
	- Store worker 1 - Stock Clerk	15.90
•	- Tools And Parts Attendant	15.30
	- Warehouse Specialist	15.30
	Mechanics And Maintenance And Repair Occupations	20100
	- Aerospace Structural Welder	24.07
	- Aircraft Mechanic I	22.92
23022	- Aircraft Mechanic II	24.07
	- Aircraft Mechanic III	25.27
23040	- Aircraft Mechanic Helper	17.16
23050	- Aircraft, Painter	21.75
23060	- Aircraft Servicer	19.45
	- Aircraft Worker	20.56
	- Appliance Mechanic	18.50
	- Bicycle Repairer	13.66
	- Cable Splicer	20.30
	- Carpenter, Maintenance	16.38
	- Carpet Layer	17.58 21.23
	- Electrician, Maintenance - Electronics Technician Maintenance I	21.54
	- Electronics Technician Maintenance II	22.76
	- Electronics Technician Maintenance III	24.04
	- Fabric Worker	16.33
	- Fire Alarm System Mechanic	19.62
	- Fire Extinguisher Repairer	15.17
	- Fuel Distribution System Mechanic	18.45
	- Fuel Distribution System Operator	14.70
	- General Maintenance Worker	15.94
	- Ground Support Equipment Mechanic	22.92
23381	- Ground Support Equipment Servicer	19.45
23382	- Ground Support Equipment Worker	20.56
23391	- Gunsmith I	15.17
	- Gunsmith II	17.58
	- Gunsmith III	19.62
23410	- Heating, Ventilation And Air-Conditioning	19.62

Mechanic	
23411 - Heating, Ventilation And Air Contditioning	20.62
Mechanic (Research Facility)	
23430 - Heavy Equipment Mechanic	22.69
23440 - Heavy Equipment Operator	19.62
23460 - Instrument Mechanic	21.25
23465 - Laboratory/Shelter Mechanic	18.57
23470 - Laborer	14.26
23510 - Locksmith	18.57
23530 - Machinery Maintenance Mechanic	23,45
23550 - Machinist, Maintenance	22.08
23580 - Maintenance Trades Helper	13.28
23591 - Metrology Technician I	21.25
23592 - Metrology Technician II	22.32
23593 - Metrology Technician III	23.43
23640 - Millwright	20.82
23710 - Office Appliance Repairer	19.44
23760 - Painter, Maintenance	18.57
23790 - Pipefitter, Maintenance	19.62
23810 - Plumber, Maintenance	18.57
23820 - Pneudraulic Systems Mechanic	19.62
23850 - Rigger	19.62
23870 - Scale Mechanic	17.58
23890 - Sheet-Metal Worker, Maintenance	19.62
23910 - Small Engine Mechanic	17.58
23931 - Telecommunications Mechanic I	23.83
23932 - Telecommunications Mechanic II	25.05
23950 - Telephone Lineman	20.38
23960 - Welder, Combination, Maintenance	18.65
23965 - Well Driller	19.62
23970 - Woodcraft Worker	19.62
23980 - Woodworker	15.17
24000 - Personal Needs Occupations	0.31
24570 - Child Care Attendant	9.31 12.75
24580 - Child Care Center Clerk	9.45
24610 - Chore Aide	12.85
24620 - Family Readiness And Support Services Coordinator	12,65
24630 - Homemaker	14.19
25000 - Plant And System Operations Occupations	14.17
25010 - Plant And System Operations Occupations 25010 - Boiler Tender	21,46
25010 - Boiler Tender 25040 - Sewage Plant Operator	16.82
25070 - Stationary Engineer	21.46
25190 - Ventilation Equipment Tender	14,20
25210 - Water Treatment Plant Operator	16.82
27000 - Protective Service Occupations	,
27004 - Alarm Monitor	14.01
27007 - Baggage Inspector	10.55
27008 - Corrections Officer	17.25
27010 - Court Security Officer	17.41
27030 - Detection Dog Handler	13.87
27040 - Detention Officer	17.25
27070 - Firefighter	17.11
27101 - Guard I	10.55
27102 - Guard II	13.87
27131 - Police Officer I	17.71
27132 - Police Officer II	19.68
28000 - Recreation Occupations	
28041 - Carnival Equipment Operator	10.84
28042 - Carnival Equipment Repairer	11.56
28043 - Carnival Equpment Worker	8.70

28210	- Gate Attendant/Gate Tender			15.40
28310	- Lifeguard			11,59
28350	- Park Attendant (Aide)			17.23
28510	- Recreation Aide/Health Facility Attendant			12.82
28515	- Recreation Specialist			15.61
	- Sports Official			13.72
	- Swimming Pool Operator			14.35
	Stevedoring/Longshoremen Occupational Services			
	- Blocker And Bracer			18.94
	- Hatch Tender			18.94
	- Line Handler			18.94
	- Stevedore I			17.59
				20.00
	- Stevedore II			20.00
	Technical Occupations	,	0)	0.E 8.B
	- Air Traffic Control Specialist, Center (HFO)	(see		35.77
	- Air Traffic Control Specialist, Station (HFO)			24.66
	- Air Traffic Control Specialist, Terminal (HFO)	(see	2)	27.16
	- Archeological Technician I			16.69
30022	- Archeological Technician II			18.67
30023	- Archeological Technician III			23.13
30030	- Cartographic Technician			22.77
30040	- Civil Engineering Technician			21.31
	- Drafter/CAD Operator I			16.69
	- Drafter/CAD Operator II			18,67
	- Drafter/CAD Operator III			20.82
	- Drafter/CAD Operator IV		,	25.61
	- Engineering Technician I			15.31
	- Engineering Technician II			17.18
	- Engineering Technician III			19.22
				23.78
	- Engineering Technician IV			29.14
	- Engineering Technician V			
	- Engineering Technician VI			25.35
	- Environmental Technician			22.79
	- Laboratory Technician			20.97
	- Mathematical Technician			23.13
	- Paralegal/Legal Assistant I			18.28
	- Paralegal/Legal Assistant II			22.66
30363	- Paralegal/Legal Assistant III			26.08
30364	- Paralegal/Legal Assistant IV			31,56
30390	- Photo-Optics Technician			23.14
30461	- Technical Writer I			23.13
30462	- Technical Writer II			28.30
	- Technical Writer III			34.24
30491	- Unexploded Ordnance (UXO) Technician I			22.74
	- Unexploded Ordnance (UXO) Technician II			27.51
	- Unexploded Ordnance (UXO) Technician III			32,97
	- Unexploded (UXO) Safety Escort			22.74
	- Unexploded (UXO) Sweep Personnel			22.74
	- Weather Observer, Combined Upper Air Or	(see	2)	20.82
	ce Programs	(DCC	2,	
	- Weather Observer, Senior	(see	2)	23.13
	Transportation/Mobile Equipment Operation Occupat	-	2,	20.10
	* · · · · · · · · · · · · · · · · · · ·	LIONS		11.24
	- Bus Aide			14.05
	- Bus Driver			
	- Driver Courier			13.68
	- Parking and Lot Attendant			9.21
	- Shuttle Bus Driver			13.68
	- Taxi Driver			10.86
	- Truckdriver, Light			13.68
	- Truckdriver, Medium			14.55
31363	- Truckdriver, Heavy			18.76

99000 - Miscellaneous Occupations 99030 - Cashier 8 99050 - Desk Clerk 9 99095 - Embalmer 22 99251 - Laboratory Animal Caretaker I 11 99252 - Laboratory Animal Caretaker II 11 99310 - Mortician 22 99410 - Pest Controller 14 99510 - Photofinishing Worker 11 99710 - Recycling Laborer 13 99731 - Recycling Specialist 16 99730 - Refuse Collector 12 99810 - Sales Clerk 11 99820 - School Crossing Guard 11 99830 - Survey Party Chief 18
99050 - Desk Clerk 9. 99095 - Embalmer 22. 99251 - Laboratory Animal Caretaker I 11. 99252 - Laboratory Animal Caretaker II 11. 99310 - Mortician 22. 99410 - Pest Controller 14. 99510 - Photofinishing Worker 11. 99710 - Recycling Laborer 13. 99711 - Recycling Specialist 16. 99730 - Refuse Collector 12. 99810 - Sales Clerk 11. 99820 - School Crossing Guard 11. 99830 - Survey Party Chief 18.
99095 - Embalmer 22. 99251 - Laboratory Animal Caretaker I 11. 99252 - Laboratory Animal Caretaker II 11. 99310 - Mortician 22. 99410 - Pest Controller 14. 99510 - Photofinishing Worker 11. 99710 - Recycling Laborer 13. 99711 - Recycling Specialist 16. 99730 - Refuse Collector 12. 99810 - Sales Clerk 11. 99830 - Survey Party Chief 18.
99251 - Laboratory Animal Caretaker I 99252 - Laboratory Animal Caretaker II 99310 - Mortician 99410 - Pest Controller 99510 - Photofinishing Worker 99710 - Recycling Laborer 99711 - Recycling Specialist 99730 - Refuse Collector 99810 - Sales Clerk 99820 - School Crossing Guard 99830 - Survey Party Chief 11.
99252 - Laboratory Animal Caretaker II 99310 - Mortician 99410 - Pest Controller 99510 - Photofinishing Worker 99710 - Recycling Laborer 99711 - Recycling Specialist 99730 - Refuse Collector 99810 - Sales Clerk 99820 - School Crossing Guard 99830 - Survey Party Chief 11.
99310 - Mortician 22. 99410 - Pest Controller 14. 99510 - Photofinishing Worker 11. 99710 - Recycling Laborer 13. 99711 - Recycling Specialist 16. 99730 - Refuse Collector 12. 99810 - Sales Clerk 11. 99820 - School Crossing Guard 11. 99830 - Survey Party Chief 18.
99410 - Pest Controller 14. 99510 - Photofinishing Worker 11. 99710 - Recycling Laborer 13. 99711 - Recycling Specialist 16. 99730 - Refuse Collector 12. 99810 - Sales Clerk 11. 99820 - School Crossing Guard 11. 99830 - Survey Party Chief 18.
99510 - Photofinishing Worker 11. 99710 - Recycling Laborer 13. 99711 - Recycling Specialist 16. 99730 - Refuse Collector 12. 99810 - Sales Clerk 11. 99820 - School Crossing Guard 11. 99830 - Survey Party Chief 18.
99710 - Recycling Laborer 13. 99711 - Recycling Specialist 16. 99730 - Refuse Collector 12. 99810 - Sales Clerk 11. 99820 - School Crossing Guard 11. 99830 - Survey Party Chief 18.
99711 - Recycling Specialist 99730 - Refuse Collector 99810 - Sales Clerk 99820 - School Crossing Guard 99830 - Survey Party Chief 11.
99730 - Refuse Collector12.99810 - Sales Clerk11.99820 - School Crossing Guard11.99830 - Survey Party Chief18.
99810 - Sales Clerk 99820 - School Crossing Guard 99830 - Survey Party Chief 11.
99820 - School Crossing Guard 99830 - Survey Party Chief 11.
99830 - Survey Party Chief 18.
99831 - Surveying Aide
99832 - Surveying Technician 15.
99840 - Vending Machine Attendant
99841 - Vending Machine Repairer 13.
99842 - Vending Machine Repairer Helper 11.

ALL OCCUPATIONS LISTED ABOVE RECEIVE THE FOLLOWING BENEFITS:

HEALTH & WELFARE: \$3.81 per hour or \$152.40 per week or \$660.40 per month

VACATION: 2 weeks paid vacation after 1 year of service with a contractor or successor; 3 weeks after 8 years, and 4 weeks after 20 years. Length of service includes the whole span of continuous service with the present contractor or successor, wherever employed, and with the predecessor contractors in the performance of similar work at the same Federal facility. (Reg. 29 CFR 4.173)

HOLIDAYS: A minimum of ten paid holidays per year, New Year's Day, Martin Luther King Jr's Birthday, Washington's Birthday, Memorial Day, Independence Day, Labor Day, Columbus Day, Veterans' Day, Thanksgiving Day, and Christmas Day. (A contractor may substitute for any of the named holidays another day off with pay in accordance with a plan communicated to the employees involved.) (See 29 CFR 4174)

THE OCCUPATIONS WHICH HAVE NUMBERED FOOTNOTES IN PARENTHESES RECEIVE THE FOLLOWING:

1) COMPUTER EMPLOYEES: Under the SCA at section 8(b), this wage determination does not apply to any employee who individually qualifies as a bona fide executive, administrative, or professional employee as defined in 29 C.F.R. Part 541. Because most Computer System Analysts and Computer Programmers who are compensated at a rate not less than \$27.63 (or on a salary or fee basis at a rate not less than \$455 per week) an hour would likely qualify as exempt computer professionals, (29 C.F.R. 541. 400) wage rates may not be listed on this wage determination for all occupations within those job families. In addition, because this wage determination may not list a wage rate for some or all occupations within those job families if the survey data indicates that the prevailing wage rate for the occupation equals or exceeds \$27.63 per hour conformances may be necessary for certain nonexempt employees. For example, if an individual employee is nonexempt but nevertheless performs duties within the scope of one of the Computer Systems Analyst or Computer Programmer occupations for which this wage determination does not specify an SCA wage rate,

then the wage rate for that employee must be conformed in accordance with the conformance procedures described in the conformance note included on this wage determination.

Additionally, because job titles vary widely and change quickly in the computer industry, job titles are not determinative of the application of the computer professional exemption. Therefore, the exemption applies only to computer employees who satisfy the compensation requirements and whose primary duty consists of:

- (1) The application of systems analysis techniques and procedures, including consulting with users, to determine hardware, software or system functional specifications;
- (2) The design, development, documentation, analysis, creation, testing or modification of computer systems or programs, including prototypes, based on and related to user or system design specifications;
- (3) The design, documentation, testing, creation or modification of computer programs related to machine operating systems; or
- (4) A combination of the aforementioned duties, the performance of which requires the same level of skills. (29 C.F.R. 541.400).
- 2) AIR TRAFFIC CONTROLLERS AND WEATHER OBSERVERS NIGHT PAY & SUNDAY PAY: If you work at night as part of a regular tour of duty, you will earn a night differential and receive an additional 10% of basic pay for any hours worked between 6pm and 6am. If you are a full-time employed (40 hours a week) and Sunday is part of your regularly scheduled workweek, you are paid at your rate of basic pay plus a Sunday premium of 25% of your basic rate for each hour of Sunday work which is not overtime (i.e. occasional work on Sunday outside the normal tour of duty is considered overtime work).

HAZARDOUS PAY DIFFERENTIAL: An 8 percent differential is applicable to employees employed in a position that represents a high degree of hazard when working with or in close proximity to ordinance, explosives, and incendiary materials. This includes work such as screening, blending, dying, mixing, and pressing of sensitive ordance, explosives, and pyrotechnic compositions such as lead azide, black powder and photoflash powder. All dry-house activities involving propellants or explosives.

Demilitarization, modification, renovation, demolition, and maintenance operations on sensitive ordnance, explosives and incendiary materials. All operations involving regrading and cleaning of artillery ranges.

A 4 percent differential is applicable to employees employed in a position that represents a low degree of hazard when working with, or in close proximity to ordance, (or employees possibly adjacent to) explosives and incendiary materials which involves potential injury such as laceration of hands, face, or arms of the employee engaged in the operation, irritation of the skin, minor burns and the like; minimal damage to immediate or adjacent work area or equipment being used. All operations involving, unloading, storage, and hauling of ordance, explosive, and incendiary ordnance material other than small arms ammunition. These differentials are only applicable to work that has been specifically designated by the agency for ordance, explosives, and incendiary material differential pay.

** UNIFORM ALLOWANCE **

If employees are required to wear uniforms in the performance of this contract (either by the terms of the Government contract, by the employer, by the state or local law, etc.), the cost of furnishing such uniforms and maintaining (by laundering or dry cleaning) such uniforms is an expense that may not be borne by an employee where such cost reduces the hourly rate below that required by the wage determination. The Department of Labor will accept payment in accordance with the following standards as compliance:

The contractor or subcontractor is required to furnish all employees with an

adequate number of uniforms without cost or to reimburse employees for the actual cost of the uniforms. In addition, where uniform cleaning and maintenance is made the responsibility of the employee, all contractors and subcontractors subject to this wage determination shall (in the absence of a bona fide collective bargaining agreement providing for a different amount, or the furnishing of contrary affirmative proof as to the actual cost), reimburse all employees for such cleaning and maintenance at a rate of \$3.35 per week (or \$.67 cents per day). However, in those instances where the uniforms furnished are made of "wash and wear" materials, may be routinely washed and dried with other personal garments, and do not require any special treatment such as dry cleaning, daily washing, or commercial laundering in order to meet the cleanliness or appearance standards set by the terms of the Government contract, by the contractor, by law, or by the nature of the work, there is no requirement that employees be reimbursed for uniform maintenance costs.

The duties of employees under job titles listed are those described in the "Service Contract Act Directory of Occupations", Fifth Edition, April 2006, unless otherwise indicated. Copies of the Directory are available on the Internet. A links to the Directory may be found on the WHD home page at http://www.dol.gov/esa/whd/ or through the Wage Determinations On-Line (WDOL) Web site at http://wdol.gov/.

REQUEST FOR AUTHORIZATION OF ADDITIONAL CLASSIFICATION AND WAGE RATE {Standard Form 1444 (SF 1444)}

Conformance Process:

The contracting officer shall require that any class of service employee which is not listed herein and which is to be employed under the contract (i.e., the work to be performed is not performed by any classification listed in the wage determination), be classified by the contractor so as to provide a reasonable relationship (i.e., appropriate level of skill comparison) between such unlisted classifications and the classifications listed in the wage determination. Such conformed classes of employees shall be paid the monetary wages and furnished the fringe benefits as are determined. Such conforming process shall be initiated by the contractor prior to the performance of contract work by such unlisted class(es) of employees. The conformed classification, wage rate, and/or fringe benefits shall be retroactive to the commencement date of the contract. {See Section 4.6 (C)(vi)} When multiple wage determinations are included in a contract, a separate SF 1444 should be prepared for each wage determination to which a class(es) is to be conformed.

The process for preparing a conformance request is as follows:

- 1) When preparing the bid, the contractor identifies the need for a conformed occupation(s) and computes a proposed rate(s).
- 2) After contract award, the contractor prepares a written report listing in order proposed classification title(s), a Federal grade equivalency (FGE) for each proposed classification(s), job description(s), and rationale for proposed wage rate(s), including information regarding the agreement or disagreement of the authorized representative of the employees involved, or where there is no authorized representative, the employees themselves. This report should be submitted to the contracting officer no later than 30 days after such unlisted class(es) of employees performs any contract work.
- 3) The contracting officer reviews the proposed action and promptly submits a report of the action, together with the agency's recommendations and pertinent information including the position of the contractor and the employees, to the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, for review. (See section 4.6(b)(2) of Regulations 29 CFR Part 4).

- 4) Within 30 days of receipt, the Wage and Hour Division approves, modifies, or disapproves the action via transmittal to the agency contracting officer, or notifies the contracting officer that additional time will be required to process the request.
- 5) The contracting officer transmits the Wage and Hour decision to the contractor.
- 6) The contractor informs the affected employees.

Information required by the Regulations must be submitted on SF 1444 or bond paper.

When preparing a conformance request, the "Service Contract Act Directory of Occupations" (the Directory) should be used to compare job definitions to insure that duties requested are not performed by a classification already listed in the wage determination. Remember, it is not the job title, but the required tasks that determine whether a class is included in an established wage determination. Conformances may not be used to artificially split, combine, or subdivide classifications listed in the wage determination.



Appendix B

Document Distribution List

Appendix B: Document Distribution List, Hunter Army Airfield, Georgia

Draft Document Distribution

Technical Mr. Zsolt Haverland

USACE Savannah District

100 W. Oglethorpe Ave. Savannah, GA 31401

Ft Stewart/HAAF Ms. Algeana Stevenson

DPW Prevention and Compliance Branch

1550 Frank Cochran Drive, Bldg. 1137

Fort Stewart, GA 31314-4927

ERM/COR Mr. Paul Higgs

U.S. Army Environmental Command

2450 Connell Road, 1st Floor

Bldg 2264

Fort Sam Houston, TX 78234-7664

1 Hard Copy, 1 Electronic

2 Hard Copies (3 Hard Copies for USTMP)

1 Electronic

1 Hard Copy, 2 Electronic

3 Hard Copies, 2 Electronic

Draft Final and Final Document Distribution

Technical Mr. Zsolt Haverland

USACE Savannah District 100 W. Oglethorpe Ave. Savannah, GA 31401

HAAF Ms. Algeana Stevenson

DPW Prevention and Compliance Branch 1550 Frank Cochran Drive, Bldg. 1137

Fort Stewart, GA 31314-4927

ERM/COR Mr. Paul Higgs

U.S. Army Environmental Command

2450 Connell Road, 1st Floor

Bldg 2264

Fort Sam Houston, TX 78234-7664

1 Electronic

Georgia Environmental Protection Division ¹

USTMP Mr. William Logan

Georgia Environmental Protection Division

4244 International Parkway

Suite 104

Atlanta, GA 30334

CERCLA Ms. Amy Potter

Georgia Environmental Protection Division

2 Martin Luther King Jr. Drive

Suite 1152, East Tower Atlanta, GA 30334 2 Hard Copies, 2 Electronic Copies

1 Hard Copy

All correspondence and reports will be transmitted to the installation for final submittal to the appropriate regulatory agency.



Appendix C

Quality Control Plan









Final Quality Control Plan

Hunter Army Airfield, Georgia

July 2014



Shelley Globens Project Manager

Final Quality Control Plan

Hunter Army Airfield, Georgia

Prepared for:

U.S. Army Environmental Command

Prepared by:
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Fax 919.854.5448

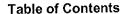
Our Ref.: 10153001.0001

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List of Acronyms and Abbreviations

ARCADIS ARCADIS US, Inc.

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act

CLIN Contract Line Item Number

COR Contracting Officer's Representative

CSM Conceptual Site Model

ERMA Environmental Remediation Multiple Award

FS Feasibility Study

ft bgs Feet below ground surface

GAEPD Georgia Environmental Protection Division

HAAF Hunter Army Airfield
HSI Hazardous Site Index

JV Joint Venture

LTM Long Term Monitoring
LUC Land Use Controls

PBA Performance Based Acquisition

PIKA PIKA International, Inc.

PMP Project Management Plan
QA Quality Assurance

QA/QC Quality Assurance/Quality Control

QCP Quality Control Plan

RA-C Remedial Action-Construction
RAO Remedial Action Objective

RD/RA Remedial Design/Remedial Action

RI Remedial Investigation

ROD Record of Decision

SSHP Site-Specific Health and Safety Plan

The JV PIKA International – ARCADIS U.S., Inc. Joint Venture

TO Task Order

USAEC United States Army Environmental Command
USEPA United States Environmental Protection Agency

UST Underground Storage Tank



1. Introduction

The PIKA International, Inc. (PIKA) - ARCADIS U.S., Inc. (ARCADIS) Joint Venture (the JV) has been retained by the United States Army Environmental Command (USAEC) to perform environmental remediation services at Hunter Army Airfield (hereinafter referred to as HAAF or the "Site"), located in Savannah, Georgia (Figure 1). The full scope of services for this performance based acquisition (PBA) contract is defined in Contract W9124J-13-D-0009 Task Order (TO) 0004 which includes all work necessary to achieve performance objectives at the following sites located at HAAF:

- HAA-01 Fire Training Site;
- HAA-13 Pump House #1;
- HAA-15 MCA Barracks Site; and,
- HAA-17 TCE Groundwater Contamination.

The performance requirements and standards are outlined in Table 1.

Table 1 Performance Requirements Summary		
Performance Objective	Performance Standard	
Approved Project Management Plan (PMP) Draft PMP within 30 calendar days of contract award. Final PMP within 30 calendar days of receipt of Contracting Officer's Representative (COR) comments on the Draft Annual update of PMP within 30 calendar days of the anniversary of the award of the contract.	Army approval of the PMP by the COR.	
(BASE) Achieve Final Remedial Investigation (RI) and Feasibility Study (FS) Report within 24 months from award of the task order for the following sites:	Army approval through the COR/Army and written regulatory concurrence (e.g., receipt of Final RI/FS)	
 HAA-17: TCE Groundwater Contamination HAA-15: MCA Barracks Site HAA-01: Fire Training Site 		



Table 1 Performance Requirements Summary	
Performance Objective	Performance Standard
(Option) Complete a Proposed Plan/Record of Decision (ROD) 12 months from award of the Contract Line Item Number (CLIN) or completion of the Final Feasibility Study or which is later:	Army approval through the COR/Army and Regulatory concurrence (e.g., receipt of Final Proposed Plan and ROD)
 HAA-17: TCE Groundwater Contamination HAA-15: MCA Barracks Site HAA-01: Fire Training Site 	
Note: Option may be exercised no later than 60 days following COR approval of the Final FS Report.	
(Option) Complete Remedial Design/Remedial Action-Construction (RA-C) at the follow site no later than 12 months from receipt of the Final RODs for the following sites: HAA-01: Fire Training Site HAA-15: MCA Barracks Site HAA-17: TCE Groundwater Contamination	Army approval through the COR/Army and Regulatory concurrence (e.g., receipt of Final Remedial design/Remedial Action [RD/RA] and performance reports documenting system performance against Remedial Action Objectives [RAOs]).
Note: Option may be exercised no later than 60 days following COR approval of the Draft ROD Report.	
(Option) Perform Remedial Action Operation at the following site for 12 months. HAA-01: Fire Training Site HAA-15: MCA Barracks Site HAA-17: TCE Groundwater Contamination One option CLIN Note 1: Option CLIN may be exercised no later than 60 days following COR approval of the Draft RA-C Report. Note 2: Upon achievement of response complete, the contractor shall petition Georgia Environmental Protection Division (GAEPD) for removal from the Hazardous Site Inventory (HSI) listing for each site.	Army approval through the COR/Army and Regulatory concurrence (e.g., receipt of required performance reports.



Table 1 Performance Requirements Summary		
Performance Objective	Performance Standard	
(Option) Perform any necessary Remedial Action Operations beginning 1 January 2015 and/or Long-term Management (LTM) including applicable system/monitoring network optimization and maintenance, Land Use Control (LUC) inspections and/or maintenance and complete any required effectiveness monitoring reports for the duration of the task order. In addition, the contractor shall provide an exit strategy/ramp down strategy and discuss any optimization efforts completed as part of the annual reports: - HAA-13: Pump Houses #1 Annual option CLINs to be exercised for 12 months of effort no later than one year from award of the previous CLIN for an additional 36 months. The final option shall cover 6 months.	Army approval through the COR and Regulatory concurrence (e.g., receipt of documentation confirming RC; RA(O)/LTM exit or ramp down strategy; RA(O)/LTM reports incorporating requirements of the exit or ramp down strategy).	
(Option) Develop well abandonment plan for all site-wide wells no longer required to support remediation at this site and remove those wells in accordance with applicable requirements. ONE OPTION CLIN may be exercised no later than 48 months from the award of the task order.	Army approval through the COR and Regulatory concurrence	

1.1 Scope

This Quality Control Plan (QCP) applies to all work conducted to support achievement of performance objectives as defined in the Contract W9124J-13-D-0009 TO 0004. This QCP has been developed in accordance with the United States Environmental Protection Agency (USEPA) Requirements for Quality Management Plans (USEPA, 2001) and was designed to describe and incorporate the following elements into project related activities:

- Management and Organization;
- Quality System and Description;
- Personnel Qualification and Training;
- Subcontractor Agreements;





- Documents and Records Management;
- Implementation of Work Processes;
- Assessment Methods; and
- Quality Improvements.

1.2 Purpose

The purpose of this QCP is to make certain that quality assurance and quality control (QA/QC) is an integrated system of management activities that are implemented during project planning, execution, assessment, and reporting (USEPA, 2001). Specifically for the HAAF project, this QCP will be used to ensure the following:

- Technical assessment of the Site and development of decision documents are conducted in accordance with acceptable standards of engineering and scientific practice by project staff;
- The JV personnel understand and adhere to specific roles and responsibilities in regard to work practices and QA/QC functions;
- All work is completed in a manner that meets all applicable local, Army, state, and federal regulations.
- The QA/QC process allows for the identification and correction of work deficiencies or deviations, where necessary.



2. Project Management and Organization

The JV has established a project organization to emphasize command and control, with delegation from the Project Manager to individual key technical personnel. The overall project organization for the HAAF project is shown on **Figure 2**. Specific roles and responsibilities of key JV personnel are described in the following section. Resumes for key personnel are included as **Appendix C-1**.

2.1 Roles and Responsibilities

The project team and organization was designed to provide a streamlined structure to execute the project in the most cost-effective, timely, and technically sound manner as possible. Each position carries with it a well-defined set of responsibilities and authorities, as described in **Table 2**. **Appendix C-1** includes the resumes of the key personnel and several other additional team members.

Position	Responsibilities							
Project Management Project Manager: Shelley Gibbons	 Oversees/directs all work for this TO to meet all contractual obligations. Single point of contact for the task order and has overall responsibility for meeting the corobjectives. Leads monthly progress / cost reporting; responsible for meeting the project schedule and managing change proactively. Coordinates regulatory negotiations in coordination with the government (with prior approfrom the COR) ensuring appropriate JV technical staff is present at partnering meetings to develop and negotiate strategies with the GAEPD and technical experts. Supports Army in all other stakeholder relations efforts, such as public/ Restoration Advise Board meetings, and provides technical resources to best support these efforts. 							
	 Establishes and coordinates projects controls (scope, schedule, and budget). Oversees the preparation/submittal of plans/reports and tracks on-time delivery of all submittals. Ensures quality control procedures are followed. 							
<u>Corporate Oversight</u> Project Director: Lynden Peters	 Ensures Program Leadership/Direction Defines Client Objective for Contract Interface with USAEC Management & Army Contracting Agency Contracting Personnel Advise Project Manager 							
Technical Advisor Regulatory Specialist: Richard Collins	 Point of contact for coordination and resolution of regulatory issues. Ensures project team conducts Comprehensive Environmental Response, Compensation, an Liability Act (CERCLA) and GAEPD Underground Storage Tank (UST) Management Program services in accordance with all applicable USEPA/GAEPD environmental requirements and policies. Maintains close communication and coordination with the Army to serve as a resource, as needed, for resolution of legal, regulatory, and policy concerns. 							



Position	Responsibilities							
Technical Resource Senior Scientist/Engineer: James Bedessem, PE	 Responsible for the overall management and implementation of the technical strategy and quality of the task order in coordination with the project manager. Directs all aspects of the technical approach, assigns technical roles and oversees the implementation of the technical approach. Directs the RI work and data to provide products to select and implement an appropriate remedy without delay or future ROD reopeners. 							
Technical Resource Certified Industrial Hygienist (CIH) / Certified Safety Professional (CSP): Tom Burgess, CSP	 Responsible for developing, implementing, and overseeing all safety and health for the task order in accordance with EM 385-1-1; reviews and approves site-specific safety and health plan (SSHP) deliverables and ensures procedures are followed. Assigns site safety officers to lead safety meetings, work stand-downs, and oversee day-to-day safety compliance in the field. Coordinates safety planning/implementation with the JV and subcontractor staff. 							
Technical Resource Risk Assessor: Shawn Sager, PhD	 Ensures task order risk assessment (human health and ecological) goals are attained. Ensures data quality objectives align with evaluating risks during RI and FS and evaluates site data and summary from the RI to advise during FS planning. Performs initial evaluation of the relative degree of risk posed at the sites. 							

The JV Project Manager, Shelley Gibbons, serves as the primary point of contact with the U.S. Army and the regulatory agencies. She has the responsibility for ensuring that the JV team fully complies with the requirements of the contract. Ms. Gibbons is a registered professional engineer with more than 10 years of project management experience and 15 years working experience in environmental remediation projects. As project manager, Ms. Gibbons will provide the primary project leadership in regard to technical, staffing, regulatory strategy, and scheduling issues. Furthermore, Ms. Gibbons will be responsible for disseminating technical information received from the project team's technical advisors and the regulatory agencies to the project team.





3. Quality System Components

The quality system for the HAAF project encompasses all activities required to meet performance requirements as indicated in the contract. The JV's QA/QC programs are presented in our original Environmental Restoration Multiple Award (ERMA) Contract Proposal dated 7 December 2011, Section 2.7. This Joint Venture (JV) task order will be executed using an integrated quality system which incorporates elements from both JV firms and ultimately manifests itself in the JV-driven program. This will ensure the JV provides the quality of services and deliverables that are necessary to successfully complete the required work and meet performance objectives. Following internal procedures and guidance, the JV will implement proven project-specific systematic approaches in the project planning and execution phase to monitor, control and maintain quality. The Quality System Components include quality checkpoints and metrics for evaluation that will result in high quality deliverables, and include the quality control through project management, project staffing, document review and quality control of RI data, FS results, remedy implementation, and remedial action operations.

Project Planning and Meetings

The Project Manager and Site Managers will be primarily responsible for project planning activities. These individuals will prepare the specific scopes of work for each deliverable and are responsible for providing team members with the necessary plans, procedures, and guidance for each document.

Project meetings will occur throughout the project, at specified dates and as needed to address site specific and overall project activities. Project meetings for HAAF will include the following:

- Periodic meetings with the Army and the GAEPD. The primary purposes of these meetings are to: discuss the preparation status of each document; report comments and proposed responses for draft documents; and, develop site-specific response actions for each site. Monthly progress update reports will also be provided to the Army.
- Internal JV monthly project progress review meetings with operational mangers to discuss project status, technical issues, project staffing needs and critical path schedule compliance. The primary objective of these meetings is to make certain that the appropriate JV resource managers are aware of upcoming project needs and the resources are made available to the HAAF Project Manager.

Hunter Army Airfield, Georgia



- Internal JV quarterly review meetings with the Federal Programs Manger and Corporate staff to discuss financial performance, project status, technical issues, project staffing needs, and critical path schedule compliance.
- Regular weekly meetings with personnel involved with each site document preparation. These meeting will include, at a minimum the Site Manager and primary authors. Dependent on project and document requirements at the time additional technical resources may also attend.

Technical Review

Project deliverables and fieldwork will have an associated technical review component. Senior technical personnel that have experience and expertise in their specific area of review will conduct the technical review. The Project Manager will assign specific technical review personnel, and it will be their responsibility to make certain that all components of the project have an appropriate technical review assigned. The purpose of the technical reviews will be to ensure document development is on track, proactively evaluate regulatory strategy needs and to identify future challenges that may trigger a project re-plan.

The technical review will address whether the work conducted fulfills the planned scope and was done in accordance with applicable requirements and guidelines. Each FS, Proposed Plan and Decision Document will be prepared consistently across each site utilizing standardized templates which comply with CERCLA, Defense Environmental Restoration Program, and Executive Order 12580. Documents will adhere to the following regulatory guidance documents:

"A Guide to Preparing Superfund Proposed Plans, Records of Decision, and Other Remedy Selection Decision Documents" (July 1999) EPA 540/R-98/031, OSWER 9200.1-23P

"Final Guidance on Administrative Records for Selecting CERCLA Response Actions" (December 1990) OSWER 9833.3A-1

"Guidance for Conducting Remedial Investigations and Feasibility Studies under CERCLA, Interim Final" (October 1988) EPA 540/G/89/004, OSWER 9355.3-01

"A Guide to Developing and Documenting Cost Estimates During the Feasibility Study" (July 2000) EPA 540-R-00-002, OSWER 9355.0-75





"Scoper's Notes - An RI/FS Costing Guide. Bringing in a Quality RI/FS on Time and Within Budget" (February 1990) EPA/540/G-90/002

"ARARs Q's and A's: General Policy, RCRA, CWA, SDWA, Post-ROD Information and Contingent Waivers" (June 1991) OSWER 9234.2-01FSA

Corporate Quality Assurance

The corporate QA program is designed to provide a separate level and path for project reviews to take place. By design, the QA review process is separate from the primary project management structure. In addition to the monthly review meetings with all project staff, the QA Manager has the authority to conduct independent project audits to make certain that project activities are being conducted in accordance with project planning documents. The QA Manager also has the responsibility of ensuring that QA audits are conducted for field activities, however field activities are not included within the planned scope of work.

Corrective Action

In addition to issues identified by formal audits and/or technical reviews, JV technical personnel are responsible for reviewing their work with regard to project requirements and initiating corrective action measures where necessary. The party conducting the review will document issues identified, and notification will be made to the Project Manager. The Project Manager will be responsible for notifying the QA Manager and initiating corrective action.

Corrective action items identified and the resulting corrective action will be documented and distributed to project personnel. Where non-health and safety items address changes that are considered potentially significant to the project scope, the overall HAAF project team will be notified prior to initiating any changes.

The Quality System Components identified above will ensure the JV provides the quality of services and deliverables that are necessary to successfully complete the required work and meet performance objectives, while mitigating potential risks associated with the execution of the project. Potential risks associated with the task order are summarized in **Table 3**.



Risk Identification	Nature of Risk/ Potential Impact	Mitigation Measures						
Vapor intrusion assessment within HAA-15	Chlorinated VOC plume beneath existing barracks.	The highest VOC concentrations detected during historical investigations were in deep groundwater at HAA-15. Multiple buildings are located near the groundwater plume. The stratified vertical nature of the plume, characterized by low VOC concentrations within shallow groundwater (10 to 30 feet below ground surface [ft bgs]) that overlies the higher VOC concentrations in deeper groundwater (35 to 50 ft bgs) and presence of the primary plume in areas that are not overlain by existing structures suggest that VI risks will be limited. The partitioning of VOCs present at the water table to soil gas is anticipated to be limited and otherwise mitigated by attenuation mechanisms that would support the dispersion, diffusion, and degradation of these COCs within soil gas. The JV will conduct vapor intrusion modeling to determine the potential for vapor intrusion. If a potential risk is identified, the JV will collect soil gas and/or sub-slab samples to further evaluate the potential risk. If field tests indicate vapor intrusion is an issue, the JV will work with HAAF and GAEPD to develop mitigation measures for the affected buildings.						
Supplemental 1,4-dioxane sampling	Detection of 1,4-dioxane above remediation standards.	Any 1,4-dioxane impacts above regulatory standards will delineated as part of the RI and evaluated in the FS.						



Table 3 Risk Management Matrix									
Risk Identification	Nature of Risk <i>l</i> Potential Impact	Mitigation Measures							
Acceptance of long-term maintenance and monitoring programs	GAEPD may require a more comprehensive long-term maintenance and monitoring program.	Supplemental groundwater monitoring conducted in supplemental groundwater monitoring conducted in supplemental groundwater monitoring conducted in supplemental groundwater in place to specify future site us while soil and/or groundwater impacts are present. The JW will consider the ongoing use of HAAF as an active military base, the associated access restrictions at the facility, and the source of drinking water being derived from either the un-impacted Floridan aquifer or public supply as part of the RI/FS activities. The long-term maintenance and monitoring programs will provide measures for these provisions to remain adequate and demonstrate when they can be lifted. The JV will work with both HAAF and GAEPD to develop these programs and ensure that sampling activities, inspections, and reporting methods demonstrate that requirements are upheld.							
GAEPD acceptance of remedial approach	The JVs proposed approaches entail a combination of both active treatment to address the primary COC mass and MNA to manage dilute plume impacts that cannot be managed in a cost-effective manner. GAEPD may require active remediation for an expanded area.	The JV will support the remedial approach by a fully developed conceptual site model (CSM), a robust MNA demonstration as part of the RI/FS, a risk evaluation, and a monitoring program developed in the RD/RA work plan to guide long-term evaluation and assessment of changes in groundwater conditions across the installation. The JV members have worked with the GAEPD to develop similar remedial strategies that include both active and passive components to cost effectively manage remediation activities at other active military installations. The JV will engage the GAEPD in the remedial decision making process, support negotiations over the course of remedial development, and support final approval of the proposed approach.							



Table 3 Risk Manager	nent Matrix							
Risk Identification	Nature of Risk <i>l</i> Potential Impact	Mitigation Measures						
Delays in Regulatory Reviews	Extensive delays in regulatory reviews can impact the overall project schedule. Based on the number of concurrent PBAs being performed under GAEPD oversight, delays are likely.	The JV will work with all stakeholders to expedite formal approval of work plans and key decision documents. However, when formal approvals are delayed, the JV will evaluate proceeding at risk on allowable activities. To maintain the project schedule, the JV will work with both HAAF and GAEPD to obtain preliminary approvals and mitigate the risks of proceeding on field activities without formal regulatory approval.						



Hunter Army Airfield, Georgia

4. Personnel Qualifications and Training

The JV has assembled a team of professionals who have the current and relevant skill sets to meet the contract objectives. The team personnel have direct, relevant, and recent experience with CERCLA based closure. A staffing matrix is provided as **Table 4** that lists the project team along with their proposed total number of man-hours, associated full time equivalents, qualifications and experience.

			Qualifications / Experience												
Name / Position	Location	Man-hours	Full Time Equivalent (Manhours /60 month duration)	Total Years' Experience	Years with JV Member Firms	DOD FFP PBA	GAEPD	USEPA Region 4	CERCLA	RIVES	PP / ROD	RD / RA-C	RAO/LTM	Optimization / Well Abandonment	
Shelley Gibbons, Project Manager	NC	581	0.06	15	10	•	•	•				=	-		
Jim Bedessem, PE, Senior Scientist/Engineer	FL	110	0.01	24	24	•	-	■		-	•	•	•	-	
Shawn Sager, PhD, Risk Assessor	NC	41	0.004	21	18	#		₽							
Richard Collins, Regulatory Specialist	MD	237	0.02	39	9	■			Ħ			•		-	
Thomas Burgess, Safety Specialist	NJ	106	0.01	20	12	•				•		•		F	
Scott Bostian, PE, Task Manger	NC NC	140	0.01	27	7			=		•		-		-	
Holly Nelson, Task Manager	FL	140	0.01	13	10		-				•			-	
Eric Killenbeck, Hydrogeologist	PA	120	0.01	15	11	=	•		-			-			
Chris Spooner, PE, Engineer	VA	250	0.02	11	10	=		•		-			-		
Jared Fino, Field Geologist	NC	956	0.1	3	3	-		•			ļ	<u> </u>		iii	
Margaret Carte, PG, Field Geologist	CA	560 Membe	0.07	20	5		L	=	_				=	■	



Hunter Army Airfield, Georgia

5. Subcontractor Agreements

The JV will self-perform much of the work within this contract, however, where needed, subcontractors will be added including services in the following areas:

- Direct Push Technology Sampling
- Monitoring and Injection Well Drilling
- Well Abandonment Services
- Utility Location Clearances
- Surveying, and
- Chemical Laboratory Services

Subcontractors will be selected in accordance with the FAR and in accordance with the contract. All subcontractors will have required certifications and Quality Assurance (QA) oversight will be implemented.





6. Documents and Records Management

Document and records management will encompass all paper and electronic correspondence and reports generated throughout the course of the project. General QC items that will apply to this project include the following:

- Upon finalization of documents, meeting minutes, and other project deliverables, the draft documents will be removed from the project file and will be replaced with the final document. Associated comments from the draft deliverables will be retained in the project file.
- Final deliverables provided in electronic format will be distributed as read-only documents.
- Throughout the life of the project, project documentation will be available for
 electronic access to only those JV personnel directly involved and/or specifically
 authorized by the Project Manager to have such access. Electronic and hard copy
 files will be kept in the central file system maintained in ARCADIS' Raleigh, North
 Carolina office for preservation purposes. Files will be archived following
 completion of the project in accordance with contract requirements.





Hunter Army Airfield, Georgia

7. Implementation of Work Processes

The processes for implementation of work are described primarily in Section 3 of this document. These items include: project planning and project review process; technical review components, adherence to regulatory guidance documents, the corporate QA function; and the corrective action function based on the direct project review and independent review function of the QA Manager.





Hunter Army Airfield, Georgia

8. Assessment Methods

The primary responsibility for assessing the project Quality System and performance will be a collaborative effort between the Project Manager. As discussed in Section 2, the Project Manager will be responsible for the quality review process, either through direct review action or through the assignment of qualified technical representatives (unassociated in a direct technical role in the project). Both the Project Manager and assigned representatives will have full access to project personnel and files.

Any corrective action items to be implemented will be discussed at the regularly scheduled HAAF project meeting prior to implementation, if the schedule permits, or the corrective action item will be summarized and forwarded to the project stakeholders prior to implementation.



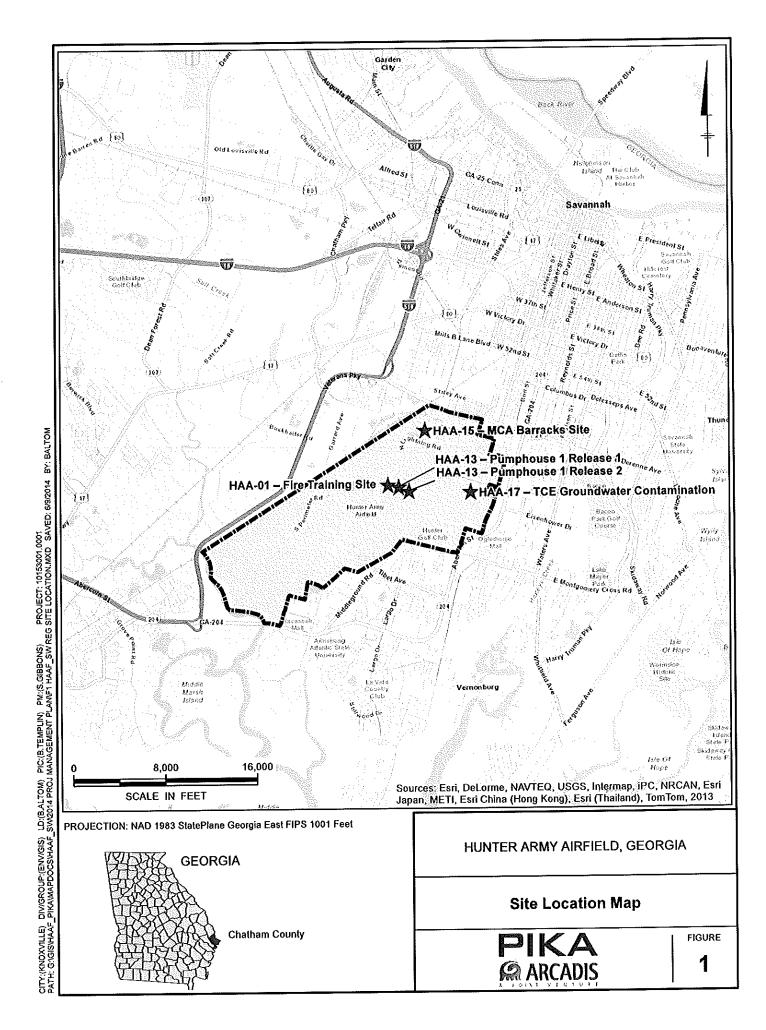
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9. References

U.S. Environmental Protection Agency. 2001. EPA Requirements for Quality Management Plans, EPA QA/R-2. EGA/240/13-01/002. Office of Environmental Information, Washington, DC. March.



Figures





Hunter Army Environmental Office

Georgia Environmental Protection Division



Unites States Army Environmental Command

Projekt Management

Project (Task Order) Manager*
Shelley Gibbons

Program Support

Program Managers

Program Manager Bobby Templin, PE, BCEE, PMP

Deputy Program Manager Rhonda Stone, PMP

Contracting Manager

Lori Olshneau

Quality Managers

Lee Ann Smith, RHSP - QC Mgr. Richard Murphy, PhD - QA Mgr.

Safety & Health Manager

Michael Crowl, MS, CSP

Project Team

Regulatory Specialist's

Richard Collins

Senior Selentist//Eingineer

James Bedessem, PE

- Raydrogeologist

Eric Killenbeck

Task Manager

Scott Bostian, PE Holly Nelson

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Thomas Burgess, CSP

Risk Assessor

Shawn Sager, PhD

Tendimical Resources

Christopher Spooner, PE Margaret Carte, PG Jared Fino

HUNTER ARMY AIRFIELD, GEORGIA

Organization Chart

PIKA ARCADIS

FIGURE

2

^{*} Indicates KEY PERSONNEL required by PWS



Appendix C-1

Key Personnel Resumes



Pr	oject (Task Order) Manager: Shelley Gibbons, PE	
	ction C.6.1.1 Minimum Requirements	Meets / Exceeds Requirements
1.	Education: BASc/1998	✓ Meets
2.	Professional Registration: Professional Engineer: SC	✓ Meets
	Minimum 5 years project management experience, with minimum 3 years in environmental remediation projects	✓ Exceeds – 10 years ✓ Exceeds – 10 years
	Working knowledge of applicable federal, state, and local laws, regulations, and guidance	✓ Meets
	Experience and/or working knowledge of risk management and/or cost containment insurance if required by the TO	✓ Meets
6.	Basic understanding of firm fixed-price and cost plus fixed fee contracts	✓ Meets
7.	Demonstrated understanding of performance-based contracts, and successful experience managing a minimum of one PBA or TO	✓ Meets – > \$47in PBAs, during the last 15 years

Ms. Gibbons has over 15 years of environmental engineering experience, which includes remedial investigation, corrective measure studies, implementation of remedial systems, performance and compliance monitoring, database management, water resource management and backflow prevention design.

Relevant Project Experience:

FFP PBA at Fort Stewart/HAAF, GA; USAEC, 09/2008 – 12/2014: Project manager for and regulatory specialist responsible for overseeing the project, client and regulator management, and managing the financials. Phase manager responsible for four sites that included RFI investigations for multiple constituents including petroleum hydrocarbons and VOCs, remediation, and corrective action implementation including excavation, installation, and management of a biosparge system, and MNA. *Value:* \$12.7M

Experience Highlights

- Experience collaborating with project teams for design of investigation programs to delineate impacts, development and implementation of remedial strategies, and completion of final activities to facilitate Site closure.
- Engaged in the initial project strategy development, environmental oversight, and stakeholder relations plans and implementation, including working directly with stakeholders.
- Relevant experience includes management of investigation, remediation, and closure of sites under multiple regulatory programs in Georgia.

FFP PBA at Tyndall Air Force Base, FL; AFCEC, 07/2013 – 10/2020: Associate project manager responsible for financials, project schedule, progress reports, and assisting with client/regulator management. Phase manager responsible for managing field efforts and preparing CERCLA investigation and closure documents. *Value: \$32M*

FFP PBA at Fort Gordon, GA; USAEC, 9/2001 – 12/2011: Associate project manager and regulatory specialist responsible for assisting with financials, insurance reporting, client/regulator management, coordination of RFI investigations and groundwater monitoring, and preparing corrective action progress reports for chlorinated hydrocarbons. *Value:* \$19.5M

FFP PBA at Fort Jackson, SC; USAEC, 09/2003 – 09/2013: Associate project manager responsible for assisting with financials, insurance reporting, and client/ regulator management and phase manager responsible for eight sites, which included RFI investigations for multiple constituents including petroleum hydrocarbons, VOCs, and SVOCs, remediation, and corrective action implementation including LNAPL recovery, excavation, PermeOx® Plus injections, phytoremediation, and MNA. *Value:* \$14.8M

FFP PBA at Moody AFB, GA; AFCEC, 03/2013 – 2/2019: Phase manager responsible for preparing and implementing corrective action optimization plans at three sites. Optimized remedies include remediation of chlorinated VOCs using in-situ bioremediation with EVO and pH adjustment strategies with sodium hydroxide solutions to buffer groundwater. Value: \$18M



Senior Scientist/Engineer: James Bedessem, Pt	
Section C.6.1.1 Minimum Requirements	Meets / Exceeds Requirements
1. Education: MS/Civil Engineering/1990; BS/Civil Engineering/1988	✓ Exceeds – Advanced Degree
2. Professional Registration: Professional Geologist: CO, FL, N	IN ✓ Meets
3. 10 years of experience in technical leadership for other contracts/p with 5 years working experience in environmental remediation sites	rograms ✓Exceeds – 20 years ✓Exceeds – 20 years
4. Knowledge of applicable federal, state, and local laws, regulations,	and guidance ✓ Meets
5. Basic understanding of firm fixed-price and cost reimbursable contra	

Mr. Bedessem is responsible for technical direction and QA/QC of environmental remediation projects throughout the U.S. During his career, he has served in a range of technical and managerial roles, including technical advisor, project manager, design engineer, construction manager, and operations specialist. He is co-author of two books: In-Situ Treatment Technology and Groundwater Treatment Technology. He offers experience in PBA and projects that have encompassed all aspects of hazardous waste management including the evaluation, design, and construction of remedial measures to abate soil and groundwater contamination at CERCLA, RCRA, landfills, dry cleaning, and UST sites.

Experience Highlights

- Technical lead for more than \$250M in PBAs
- Senior engineer for site-wide RI/FS, ROD, RD/RA, and RAO at Milan AAP under a PBA contract with USAEC
- Senior engineer for two Air Force PBA contracts: 1) Moody AFB, GA - environmental remediation of 12 sites including landfills, petroleum sites, fire training areas, and groundwater plumes and 2) Tyndall AFB, FL -RI/FS at 10 MMRP and 3 IRP sites

Relevant Project Experience:

FFP PBA Fort Gordon, GA; USAEC, 09/2001 – 12/2013: Senior engineer and technical advisor for the investigation and remediation of 26 RCRA units at this active DOD installation. Responsible for reviewing remedial progress and providing technical support for site investigation, remedy selection, and remedy implementation for selected sites. Twenty-five of 26 SWMUs received NFA determinations from the state regulators while remedy-in-place was achieved for the 26th site. *Value:* \$19.5M

FFP PBA Milan Army Ammunition Plant, TN, USAEC, 05/2004 – 5/2014: Senior engineer for remediation of soil and groundwater impacts from explosives. Soil activities have included delineation of impacts using biased sampling and composite sampling techniques, excavation or capping of soils impacted with munitions constituents (hexahydro-1,3,5-trinitro-1,3,5-triazine and TNT), and ex-situ bioremediation of 17,000 tons of soil from across the facility. Groundwater activities include the operation of existing, interim remedial measures consisting of three pump-and-treat systems that extract 4 mgd of contaminated groundwater and development of a final, site-wide remediation strategy. Supplemental characterization to fill data gaps was completed to supplement data collected during the Remedial Investigation. Following completion of the data gap investigation, a site-wide remedy for groundwater has been selected and USEPA Region 4 approved the final FS in December 2013. Proposed Plan and ROD development are underway concurrently with RD activities so that the final site-wide groundwater remedy can be operational by May 2014. Value: \$49.8M

FFP PBA Fort Jackson, SC; USAEC, 09/2003 – 09/2013: Senior engineer and technical advisor providing senior review and QA/QC primarily for the remediation of petroleum-related impacts at multiple SWMUs. Under this contract, 16 SWMUs, one AOC, and 13 UST sites were addressed at this active installation. ARCADIS designed remedial actions for two former UST sites with residual petroleum contamination. Oxygen delivery to promote in-situ biodegradation and phytoremediation were selected as the preferred technologies. ARCADIS prepared remedial action plans that were approved by the state regulator. The active implementation phases of the plans have been completed and contractual performance objectives met. *Value:* \$14.9M



Regulatory Specialist: Richard Collins	
Section C.6.1.1 Minimum Requirements	Meets / Exceeds Requirements
Education: BS/Environmental Resource Management/1974; Dispute resolution training at MIT- Harvard Public Disputes Program (1993)	✓ Meets
2. Ten years' experience in regulatory requirements for other contracts/programs with a minimum of 5 years working experience in environmental remediation sites.	✓Exceeds – 27 years ✓Exceeds – 33 years
3. Detailed knowledge of applicable federal, state, and local laws, regulations, and guidance, particularly related to CERCLA, National Contingency Plan, RCRA permits and corrective action, and the DOD/Army	✓Meets
4. Basic understanding of firm fixed-price and cost plus fixed fee contracts	✓ Meets

Mr. Collins provides regulatory guidance and strategy development for FFP PBA and traditional contracts for federal and commercial clients, developing and advising on innovative approaches to regulatory strategies. As former Director of MDE's Land Management Administration, he provides unique knowledge about State regulatory policies regarding Federal Facilities remediation projects. He offers clients regulatory guidance, advising on USEPA and state environmental policy and compliance approaches. to address current and emerging environmental challenges. As a regulatory strategist, Mr. Collins is engaged in the initial strategy development, technical oversight, and execution of contracts. He is an expert in

Experience Highlights

- Former Director of Maryland Department of Environment (MDE) Land Management Administration
- Served as a state regulator for 30 years
- Managed MDE's delegated RCRA (Subtitle C, D, and I), state and federal CERCLA, and all associated remediation programs
- Oversees internal network of regulatory experts for ARCADIS that directly provide strategic regulatory guidance and support for 45 PBAs

Relevant Project Experience:

FFP PBA Projects and Contracts for USAEC, 09/2003- Ongoing:

• Fort Gordon, GA: Closure of 26 RCRA regulated sites. Value: \$19.5M.

stakeholder relations, including working with RABs and other public groups.

- Fort Jackson, SC: Closure of 16 solid waste management units and 13 UST sites. Value: \$14.3M.
- Milan AAP, TN: RC or RIP at 20 sites, with only one remaining groundwater ROD pending.
 Value: \$49.8M.
- Picatinny Arsenal, NJ: RIP and/or closure for 140+ sites under CERCLA, including all decision documents; Value: \$27M.
- White Sands Missile Range, NM: RCRA corrective action decision documents and closures at 39 sites. *Value:* \$21.2M.
- Fort George G. Meade, MD: Remediation of VOC plume at the Defense Reutilization and Marketing Office site. *Value: \$2M*.
- Sierra Army Depot, CA: Closure for seven sites and RIP for two sites. Value: \$19.7M.
- Fort Rucker, AL: Response complete for sanitary landfill and site-wide groundwater. *Value:* \$1.7M.

FFP PBA for AOC 50 at Fort Devens, MA; U.S. Army FORSCOM, 09/2001 – 06/2008: Optimization of existing systems and remediation of AOC 50. Value: \$7.9M

FFP PBA Former U.S. Disciplinary Barracks, Lompoc, CA; U.S. Army FORSCOM, 09/2001-12/2006: BRAC closure of five sites under CERCLA, including unpermitted landfill. *Value:* \$3.8M

FFP PBA at Moody AFB, GA; AFCEC, 03/2013 – 2/2019: Eight site closeouts, two remedy-in-place goals, and two regulatory closures for groundwater-impacted sites, including three landfills and two disposal areas. *Value:* \$18M



Certified Industrial Hygienist: Thomas Burgess, CSP	
Section C.6.1.1 Minimum Requirements	Meets / Exceeds Requirements
1. Certification by the American Board of Industrial Hygiene	See # 6
2. Education: MBA/Organizational Studies; BS/Management	✓ Exceeds – Advanced Degree
3. Minimum 3 years working experience in environmental remediation site activities	✓ Exceeds – 26 years
4. Demonstrated experience in air monitoring techniques and development of respiratory protection and PPE programs for working in potentially toxic atmospheres and confined spaces	✓Meets
5. Working knowledge of applicable federal, state, and local occupational safety and health regulations	✓Meets
6. CSP substitution allowed if they meet qualification requirements 2 – 5	✓ Meets

Mr. Burgess is a health and safety professional with varied experience in managing programs for industrial operations, construction, and environmental remediation. He leads the ARCADIS Federal Health and Safety Oversight program. In this role, he supports a variety of DOD projects and is experienced in the development and management of safety plans IAW EM 385-

Experience Highlights

- Developed innovative streamlined APP/SSHP approach for Picatinny Arsenal, NJ sites under an USAEC contract
- Hazwoper 40-hour and 8-hour instructor

1-1. His dedication and *Safety First* attitude is reflected in ARCADIS' enviable experience modification rate (EMR) of 0.66.

Relevant Project Experience:

FFP PBA at Picatinny Arsenal, NJ; USAEC, 04/2006 – 04/2016: Health and safety manager coordinating work at multiple sites on the installation. Related activities include review and approval of the accident prevention plan and site-specific safety and health plan, technical support of field operations, and performance of regular safety audits. *Value: \$27.8M*

FFP Task Order at Fort Detrick, MD; USACE Baltimore, 07/2010 – 03/2014: Health and safety manager performing related activities included review and approval of the accident prevention plan and site-specific safety and health plan, technical support of field operations, and performance of regular safety audits. Mr. Burgess also prepares responses to local residents with health and safety concerns. Value: \$2.5M

FFP Site Inspections of Three MMRP Sites and RI/FS at Former Precision Bombing Range N-9, Pueblo of Laguna, NM; USACE Albuquerque District, 01/2013 – 11/2013: Health and safety manager performing related activities for the site inspections on three MMRP areas of concern. Value: \$540K

FFP PBA at Fort George G. Meade, MD; USAEC, 08/2009 – 12/2015: Health and safety manager performing related activities including review and approval of the accident prevention plan and site-specific safety and health plan, technical support of field operations, and performance of regular safety audits. *Value:* \$18.9M

Operational Range Assessment Program, Phase II, Active Army and Army National Guard Installations, MD; USACE Baltimore District, 09/2009 – Present: Director of health and safety responsible for approval and oversight of accident prevention plans, and implementation during field activities. He prepares activity hazard analyses and selects appropriate personal protective equipment for project personnel. Value: \$9.4M

FFP Closure Verification Sampling at Deseret Chemical Depot, UT; 09/2012 – 12/2020: Health and safety manager supporting team sampling in chemical warfare material storage igloos and the mustard storage yard. Mr. Burgess addresses medical management, personal protective equipment, and other issues related to potential chemical warfare material exposure. Value: \$1M



Risk Assessor: Shawn Sager, PhD	
Section C.6.1.1 Minimum Requirements	Meets / Exceeds Requirements
1. Education: PGD/ Environmental Science and Public Policy/1983, PhD /Chemistry/1983,; MS /Chemistry/1981,; BS/Chemistry/1978,	✓ Exceeds – Advanced Degree
2. Working knowledge of federal and state regulations, and guidance dealing with risk assessments	✓ Meets
3. Minimum of 3 years working experience in environmental risk assessment activities	✓Exceeds – 28 years

Dr. Shawn Sager has more than 28 years' experience preparing risk assessments and evaluating hazardous materials including extensive performance based remediation experience with DOD and commercial clients. She has managed, performed and reviewed risk assessments for more than 300 sites in 30 states, including 75 Superfund sites. Dr. Sager is one of nine trainers for the ASTM Risk-Based Corrective Action for petroleum release sites standard.

Relevant Project Experience:

FFP PBA, HAAF and Fort Stewart, GA; USACE, 09/2008 – 12/2014: Risk assessor responsible for coordinating and overseeing risk assessments for sites at both installations. Prepared risk assessments for sites under the Georgia HSRA and RCRA programs. Responsibilities included managing the risk assessment reports, responding to comments, and interfacing with the regulators. Value: \$12.7M

Experience Highlights

- 28+ years' experience conducting risk assessments to support regulatory closure decision making
- Successfully managed large and complex RA projects under a variety of regulatory frameworks, including multiple state and federal CERCLA and RCRA corrective actions
- Performed multi-pathway, multi-receptor HHRAs at a variety of sites including military facilities, landfills, and various petroleum and chlorinated solvent spill sites
- Knowledgeable on emerging toxicity and science for variety of compounds including lead, chromium, perchlorate, and exposure pathways including vapor intrusion

FFP PBA at Fort Gordon, GA; USAEC, 09-2001 – 12/2015: Risk assessor responsible for managing the risk assessment and preparing the strategy document. Scope of work included developing a strategy to obtain closure for solid waste management unit. The strategy document was developed early in the process to obtain a state regulatory agency's concurrence for the approach and assumptions that were used to characterize potential exposure and risk. The approach has been successfully implemented and 26 of 28 contracted SWMUs have been closed using the risk based approaches. *Value:* \$19.5M

FFP PBA at Fort Jackson, SC; USAEC, 09/2003 – 09/2013: Risk assessor responsible for coordinating and overseeing risk assessment to address 16 SWMUs, one AOC and four UST sites. Responsibilities included reviewing reports prepared under existing contracts and providing comments to communicate results that aid in obtaining closure of the SWMUs. The project was run primarily through the RCRA corrective action program, but also included some sites under the state risk-based corrective action program for petroleum contamination. Value: \$14.9M

FFP PBA at Fort Leavenworth, KS; USACE Omaha District, 03/2002 - 09/2012: Risk assessor responsible for coordinating and preparing the human health risk assessment (HHRA) for FTL-66, 5th Artillery Road Firing Range, munitions response site. The RFI and risk assessment focused on delineating lead concentrations and evaluating exposure to lead as the site is used for base housing and the housing footprint is expanded. The assessment also evaluated exposure to other constituents detected in at the site, although lead was the risk driver. Supported the project team on other Fort Leavenworth sites, serving as a peer reviewer and quality control member. Value: \$19.8M



Appendix D

Project Schedule

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1.2.4.1.1 Q3 REVIEW			Q3 Review		1 day	Thu 8/14/14		† 1		:			t *
1.2.4.1.2 Q4 Review 1 day Thu 10/30/14	1				. 4	and the second second				į		:	
1 2 4 2 Quarterly Review Meetings 2015	i				and the second control of the second control		1	*		;			
1.2.4.2.1 Q1 Review 1 day Thu 1/15/15	i i				The second secon	and the second s		i		4			<u>t</u>
1.2.4.2.2 O2 Review 1 day Thu 4/2/15	1.				and a second of the contract o	A COLOR OF THE COL			+	;			į
1.2.4.2.3 O3 Review 1 day Thu 7/16/15			and the second of the second o	en e	1 1 1 1 m m m	and the second second			+			:	
12424 Q4 Review 1 day Thu 10/15/15			and the control of th							1]	1
1.2.4.3 Quarterly Review Meetings 2016 196 days Thu 1/14/16			and the second s		196 days	Thu 1/14/16		§ !		i		1	

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	1.2.4.3.1	Q1 Review	1 day	Thu 1/14/16	
***	1.2.4.3.2	Q2 Review	1 day	Thu 3/31/16	
	1.2.4.3.3	Q3 Review	1 day	Thu 7/14/16	
- :	1.2.4.3.4	Q4 Review	1 day	Thu 10/13/16	
	1.2.4.4	Quarterly Review Meetings 2017	196 days	Thu 1/12/17	
:	1.2.4.4.1	Q1 Review	1 day	Thu 1/12/17	
_;	1.2.4.4.2	Q2 Review	1 day	Thu 3/30/17	
	1.2.4.4.3	Q3 Review	1 day	Thu 7/13/17	
	1.2.4.4.4	Q4 Review	1 day	Thu 10/12/17	
	1.2.4.5	Quarterly Review Meetings Year 2018	196 days	Thu 1/11/18	<u> </u>
	1.2.4.5.1	Q1 Review	1 day	Thu 1/11/18	
	1.2.4.5.2	Q2 Review	1 day	Thu 3/29/18	
	1.2.4.5.3	Q3 Review	1 day	Thu 7/12/18	
	1.2.4.5.4	Q4 Review	1 day	Thu 10/11/18	The state of the s
;	1.2.4.6	Quarterly Review Meetings Year 2019	56 days	Fri 1/12/18	
7	1.2.4.6.1	Q1 Review	1 day	Fri 1/12/18	
1	1.2.4.6.2	Q2 Review	1 day	Fri 3/30/18	
. **	1.2.5	Support Army Project Management Tools	1304 day:	Wed 5/21/14	
	1.2.5.1	Maintain Project Website	1304 days	Wed 5/21/14	
	1.2.5.2	Maintain Project Schedule	1304 days	Wed 5/21/14	
1	1.2.5.3	Create / Maintain Contractor Master Document List (MDL)		Wed 5/21/14	
j	1.2.5.4	Administrative Record/Public Information Repository-Monthly maintenance		Wed 5/21/14	
	1.2.6	Meetings/Teleconferences	1304 day	Wed 5/21/14	
	1.2.6.1	Project Management Review (PMR) Meetings		s Wed 5/21/14	
6	1.2.6.1.1	Attend PMR Meetings/Teleconferences (Monthly or As Required)-Minutes to be Provided	1304 days	Wed 5/21/14	
_ 1		within 3 Working Days of Meeting		Was riotte	
7	1.2.6.2	Technical, Regulatory, Progress, and/or Status Meetings		Wed 5/21/14	
} } }	1.2.6.2.1	Progress Review Conference Calls (as needed)		Wed 5/21/14	
. :	1.2.6.3	Support / Attend Public Meetings		Wed 5/21/14	
0	1.2.6.3.1	Coordinate and Attend Teleconferences with Public Affairs Officer (PAO) as needed	1304 days	Wed 5/21/14	
1	1.2.6.3.2	Support / Attend Restoration Advisory Board (RAB) Meetings- Minutes to be Provided within 5 Working Days of Meeting	1304 days	Wed 5/21/14	
2	1.2.7	Monthly Status Reports	1304 days	Wed 5/21/14	
3	1.2.7.1	Year 1 Monthly Status Reports (12)	261 days		
i	1.2.7.2	Year 2 Monthly Status Reports (12)	262 days	Thu 5/21/15	
·	1.2.7.3	Year 3 Monthly Status Reports (12)	261 days	Mon 5/23/16	
3	1.2.7.4	Year 4 Monthly Status Reports (12)	260 days	Tue 5/23/17	
, :	1.2.7.5	Year 5 Monthly Status Reports (12)	260 days	Tue 5/22/18	
3	1.2.8	Maintain / Update SmartMap/Geospatial Data	1304 days	Wed 5/21/14	
9	1.2.9	Upload Data into ERIS on Quarterly Basis (AEDB-R, HQAES)	1304 days		
י כ	1.2.10	Five-Year Review (All Open Sites)	180 days		
1	1.2.10.1	2015 Five-Year Review Support	180 days		
2 1	.2.10.1.1	Support Completion of Five-Year Review by Independent Party	180 days	Fri 12/12/14	
3	1.2.11	Manpower Reporting (Not Separately Priced)	1066 day:		•
4	1.2.11.1	Year 1 Manpower Reporting 0005	0005AA 23 days	Mon 6/1/15	
5	1.2.11.2	Year 2 Manpower Reporting 0005	0005AB 22 days	Tue 5/31/16	
3	1.2.11.3	Year 3 Manpower Reporting 0005	0005AC 21 days	Thu 6/1/17	™
•	1.2.11.4	Year 4 Manpower Reporting 0005	0005AD 22 days	Thu 5/31/18	
<u> </u>	1.2.11.5	Year 5 Manpower Reporting 0005	0005AE 23 days	Thu 5/30/19	
	1.2.12	Community Relations Plan (CRP) 2015	135 days	Tue 1/13/15	
	1,2.12.1	Prepare Draft CRP Update in 2015	20 days	Tue 1/13/15	
. 1	1.2,12.2	Army Review of CRP	30 days	Tue 2/10/15	
	1.2.12.3	Respond to Army Comments on CRP	20 days	Tue 3/24/15	tro 7 annu Annu I de Cen
	1.2.12.4	Army Approval of CRP	0 days	Mon 4/20/15	4/20 Army Approval of CRP
	1.2.12.5	Prepare Draft Final CRP	5 days	Tue 4/21/15	
1	1.2.12.6	Regulator Review of CRP	30 days	Tue 4/28/15	
;	1.2.12.7	Respond to Regulator Comments on CRP	20 days	Tue 6/9/15	
	1.2.12.8	Regulator Review and Approval of Response to Comments	5 days	Tue 7/7/15	
	1.2.12.9	Prepare/Submit Final CRP	5 days	Tue 7/14/15	7/20 A Populator Approved of Float CPP
	1.2.12.10	Regulator Approval of Final CRP	0 days	Mon 7/20/15	7/20 ▼ Regulator Approval of Final CRP
1		IAA-01 – (Former Fire Training Area and DAACG Chlorinated Solvents Areas), HAA-16 - (MCA	1387 days	Wed 5/21/14	
		arracks Site), HAA-17 – (TCE Groundwater Contamination) NTP on CLIN 0002AA Remediation Investigation/Feasibility Study Report	520 days	Wed 5/21/14	
	2.1 2.1.1	HAA-01 - Former Fire Training Area and DAACG Chlorinated Solvents Areas	520 days		
	2.1.1.1	HAA-01 - Remediation Investigation/Feasibility Study Work Plan 0002	0002AA 235 days		
	2.1.1.1	Prepare Draft RI/FS Work Plan 0002	0002AA 40 days	Wed 5/21/14	
	2.1.1.1.2	Army Review of Draft RVFS Work Plan 0002	0002AA 30 days	Wed 7/16/14	
	2.1.1.1.2	Prepare Response to Army Comments 0002	0002AA 10 days	Wed 8/27/14	
	2.1.1.1.4	Army Review of Response to Comments 0002	0002AA 10 days	Wed 9/10/14	
	2.1.1.1.5	Army Approval of Draft Final RI/FS Work Plan 0002	0002AA 0 days	Tue 9/23/14	9/23 Army Approval of Draft Final RI/FS Work Plan
	2.1.1.1.5	Submit Draft Final RI/FS Work Plan to GAEPD 0002	0002AA 5 days	Wed 9/24/14	
	2.1.1.1.7	GAEPD Review of Draft Final RVFS Work Plan 0002	0002AA 60 days	Wed 10/1/14	
- 1	2.1.1.1.7	Prepare Response to GAEPD Comments (RTC) and Final RI/FS Work Plan 0002	0002AA 20 days	Wed 12/24/14	
	z. 1. 1. 1.O.			Wed 1/21/15	
	2.1.1.1.9	Army Review/Approval of RTC and Final Rt/FS Work Plan 0002	0002AA 10 days	YY 60 1/71/15	

		11.	CI	.IN Sub-CL	IN Duration	Start	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
	WB\$ Task 2.1.1.1.10	Name Submit RTC and Final RVFS Work Plan to GAEPD	· · · · · · · · · · · · · · · · · · ·		2AA 5 days	Wed 2/4/15			F K	1			[}	[[
	2.1.1.1.11	GAEPD Review of Final RI/FS Work Plan and RTCs	· · · · · · · · · · · · · · · · · · ·	0002 000	2AA 45 days	Wed 2/11/15	İ		—	į	}		[;		
	2.1.1.1.12	GAEPD Approval of Final RI/FS Work Plan		0002 000	2AA 0 days	Tue 4/14/15	İ		4/14 KGAEPE	Approval of Final Ri	FS Work Plan	;			į	
	and the second second	HAA-01 - Implement Remedial Investigation/Feasibility Study Work Plan			2AA70 days	Wed 4/15/15	•		-		į		į		•	•
6	2,1.1.2	Base coordination, utility clearance, permitting			2AA 10 days	Wed 4/15/15			•	;		i			;	
	2.1.1.2.1	and the control of th			2AA 10 days	Wed 4/29/15			7							:
	2.1.1.2.2	Install monitoring wells		4.3	2AA 20 days	Wed 4/29/15	İ		Ž					}		
	2.1.1.2.3	Collect surface water and groundwater samples	i	and a section of the section of		Wed 7/15/15	İ		-	į		İ	į	ì	į	i
	2.1.1.2.4	ERIS Submittal		and the second second	2AA 5 days					[į		İ	
1	2.1.1.3	HAA-01 - Remediation Investigation/Feasibility Study (RI/FS) Report		and the second second	2AA 235 days	Wed 6/24/15			¥			1				
2	2.1.1.3.1	Prepare Draft RI/FS		1.	2AA 40 days	Wed 6/24/15	1	1	-		į	}	į			
3	2.1.1.3.2	Army Review of Draft RI/FS			2AA 30 days	Wed 8/19/15					ì			į	1	;
4	2.1.1.3.3	Prepare Response to Army Comments	:	0002 0003	2AA 10 days	Wed 9/30/15	. !		į	f	1	:			:	}
	2.1.1.3.4	Army Review of Response to Comments		0002 0003	2AA 10 days	Wed 10/14/15			1	f _	ì			İ	1	
0.000	2.1.1.3.5	Army Approval of Draft Final RI/FS		0002 0002	2AA 0 days	Tue 10/27/15			10/27	Army Approval of Army Ap	l Draft Final RI/FS					
	2.1.1.3.6	Submit Draft Final RI/FS to GAEPD		0002 000	2AA 5 days	Wed 10/28/15	j	1	1	T.	f 1				:	
	2.1.1.3.7	GAEPD Review of Draft Final RVFS		0002 0002	2AA 60 days	Wed 11/4/15				The state of the s		t f		:	:	
	2.1.1.3.8	Prepare Response to GAEPD Comments (RTC) and Final RI/FS		0002 0003	2AA 20 days	Wed 1/27/16	İ			,	i	į		i		į
		Army Review/Approval of RTC and Final RI/FS		A 4 8 4 4	2AA 10 days	Wed 2/24/16	ļ	;	-		F	-	1	•		į
	2.1.1.3.9				2AA 5 days	Wed 3/9/16				*			1			
	2.1.1.3.10	Submit RTC and Final RVFS to GAEPD	· · · · · · · · · · · · · · · · · · ·	1	2AA 45 days	Wed 3/16/16		i	:	Y		į	;	į	i	
	2.1.1.3.11	GAEPD Review of Final RI/FS and RTCs		4.47.4				·	;	SHT A GAER	D Approval of Final R	IIE Q	:	1		1
3 :	2.1.1.3.12	GAEPD Approval of Final RI/FS		0002 000	2AA 0 days	Tue 5/17/16		<u> </u>		STI V CALL	b Approver or a ment	410			!	1
4	2.1.2	HAA-15 - MCA Barracks Site			520 days	Wed 5/21/14								İ	į	
5	2.1.2.1	HAA-15 - Remediation Investigation/Feasibility Study Work Plan		and the second second	2AA 235 days	Wed 5/21/14		(1	;		}				1	
6	2.1.2.1.1	Prepare Draft RI/FS Work Plan			2AA 40 days	Wed 5/21/14				i	1			1	;	
7	2.1.2.1.2	Army Review of Draft RI/FS Work Plan			2AA 30 days	Wed 7/16/14	j	F	_		}					
and a factor of	2.1.2.1.3	Prepare Response to Army Comments			2AA 10 days	Wed 8/27/14	1	;	اِ							İ
	2.1.2.1.4	Army Review of Response to Comments		0002 000	2AA 10 days	Wed 9/10/14			₫			i i			1	
	2.1.2.1.5	Army Approval of Draft Final RI/FS Work Plan		0002 000	2AA 0 days	Tue 9/23/14		9/23	Army Approval of	Draft Final RI/FS Worl	c Plan			:		
1 .	2.1.2.1.6	Submit Draft Final RI/FS Work Plan to GAEPD	11	0002 000	2AA 5 days	Wed 9/24/14			1				1			i
	2.1.2.1.7	GAEPD Review of Draft Final RVFS Work Plan			2AA 60 days	Wed 10/1/14	1	1	Access .		;	i	1	}		;
		Prepare Response to GAEPD Comments (RTC) and Final RI/FS Work Plan			2AA 20 days	Wed 12/24/14			<u>ā</u> .		•		1	:	-	
	2.1.2.1.8				2AA 10 days	Wed 1/21/15			¥	;	i		į	i	į	
	2.1.2.1.9	Army Review/Approval of RTC and Final RI/FS Work Plan		and the same	2AA 5 days	Wed 2/4/15			*	<u> </u>			į			;
	2.1.2.1.10	Submit RTC and Final RI/FS Work Plan to GAEPD				and the second second			- Vannes		2	1	į	!		:
	2.1.2.1.11	GAEPD Review of Final RI/FS Work Plan and RTCs			2AA 45 days	Wed 2/11/15			AMA A CAEOR	Approval of Final RI/	ES Work Dian	i	ì	i	i	;
7	2,1.2.1.12	GAEPD Approval of Final RI/FS Work Plan	1	and the second	2AA 0 days	Tue 4/14/15			ATTA W GACPL	Approvator Final Ku	F3 HUIK FIAH	1			į	
8	2.1.2.2	HAA-15 - Implement Remedial Investigation/Feasibility Study Work Plan	i	and the second of	2AA 70 days	Wed 4/15/15			4			1			:	1
9	2.1.2.2.1	Base coordination, utility clearance, permitting			2AA 10 days	Wed 4/15/15			0_							
30	2.1.2.2.2	Install monitoring wells		0002 000	2AA 10 days	Wed 4/29/15			4	;		;		-	;	į
31	2.1.2.2.3	Collect surface water and groundwater samples		0002 000	2AA 20 days	Wed 4/29/15			ă i						· ·	:
32	2.1.2.2.4	ERIS Submittal		0002 000	2AA 5 days	Wed 7/15/15		1	T			į			}	į
33	2.1.2.3	HAA-15 - Remediation Investigation/Feasibility Study (RI/FS) Report	1 1 1	0002 0002	2AA 235 days	Wed 6/24/15		1	-			-		:	ì	
34	2.1.2.3.1	Prepare Draft RI/FS			2AA 40 days	Wed 6/24/15			Too,			-		}	1	
		Army Review of Draft RI/FS			2AA 30 days	Wed 8/19/15			¥	ı. İ						1
35	2.1.2.3.2				2AA 10 days	Wed 9/30/15				7		į		;		;
36	2.1.2.3.3	Prepare Response to Army Comments			2AA 10 days	Wed 10/14/15			†	7	1	i			1	
7	2.1.2.3.4	Army Review of Response to Comments			· ·	Tue 10/27/15			10/27	Army Approval of	Draft Final RI/FS		į		į	i i
	2.1.2.3.5	Army Approval of Draft Final RI/FS			2AA 0 days				10,21	Train, approva	21017111011101		į	i	i	
9	2.1.2.3.6	Submit Draft Final RVFS to GAEPD		and the second	2AA 5 days	Wed 10/28/15			1	1	1		:	-	ļ	
90	2.1.2.3.7	GAEPD Review of Draft Final RI/FS			2AA 60 days	Wed 11/4/15				<u> </u>			t t			1
1	2.1.2.3.8	Prepare Response to GAEPD Comments (RTC) and Final RI/FS			2AA 20 days	Wed 1/27/16			į	ن الله	į		:			1
2	2.1.2.3.9	Army Review/Approval of RTC and Final RI/FS		0002 000	2AA 10 days	Wed 2/24/16			1	; Q	:				į	
	2.1.2.3.10	Submit RTC and Final RI/FS to GAEPD			2AA 5 days	Wed 3/9/16	Ì		i	į Ū	2	1	1	1	!	:
	2.1.2.3.11	GAEPD Review of Final RI/FS and RTCs	:	0002 000	2AA 45 days	Wed 3/16/16	1				{		-		1	1
	2.1.2.3.12	GAEPD Approval of Final RI/FS	:	0002 000	2AA 0 days	Tue 5/17/16	į			5/17 ₹ GAEP	D Approval of Final R	/FS	į	į		
16	2.1.3	HAA-17 - TCE Groundwater Contamination	: '	1 1	520 days	Wed 5/21/14		-	1)	:		:		1
7	2.1.3.1	HAA-17 - Remediation Investigation/Feasibility Study Work Plan	****	0002 000	2AA 235 days	Wed 5/21/14		-					1		1	1
8	2.1.3.1	Prepare Draft RUFS Work Plan			2AA 40 days	Wed 5/21/14		100			į		-			1
100.0		Army Review of Oraft RUFS Work Plan			2AA 30 days	Wed 7/16/14	1		1			;	1	ì		1 1
9	2.1.3.1.2				2AA 10 days	Wed 8/27/14		T	7.		į		-		1	
0	2.1.3.1.3	Prepare Response to Army Comments			2AA 10 days	Wed 9/10/14			7		į		1	t 	}	
1	2.1.3.1.4	Army Review of Response to Comments		2 -	-	Tue 9/23/14	+	Scio	Army Approval of	raft Final RI/FS Work	Plan		į	i i	1	
2	2.1.3.1.5	Army Approval of Draft Final RI/FS Work Plan	ļ		2AA 0 days			3,23	A. The state of th			1 1	1	; ;	1	1
3	2.1.3.1.6	Submit Draft Final RI/FS Work Plan to GAEPD		and the second s	2AA 5 days	Wed 9/24/14			<u>.</u>		!		1 2 5	1	, ;	
ı	2.1.3.1.7	GAEPD Review of Draft Final RI/FS Work Plan			2AA 60 days	Wed 10/1/14			<u> </u>		1		1	į	1	į
5	2.1.3.1.8	Prepare Response to GAEPD Comments (RTC) and Final RI/FS Work Plan			2AA 20 days	Wed 12/24/14						i				
3	2.1.3.1.9	Army Review/Approval of RTC and Final RI/FS Work Plan	j		2AA 10 days	Wed 1/21/15			•		1	1	•	1	1	:
,	2.1,3.1.10	Submit RTC and Final RVFS Work Plan to GAEPD			2AA 5 days	Wed 2/4/15			Ų.		1	!	ĺ		į	
	2,1,3,1,11	GAEPD Review of Final RI/FS Work Plan and RTCs		and the second second	2AA 45 days	Wed 2/11/15		: 1		. .			į		:	
	2.1.3.1.12	GAEPD Approval of Final RI/FS Work Plan		0002 000	2AA 0 days	Tue 4/14/15	}		A/14 GAEPD	Approval of Final Rif	FS Work Plan		1	;	:	
2	2.1.3.2	HAA-17 - Implement Remedial Investigation/Feasibility Study Work Plan		0002 000	2AA 70 days	Wed 4/15/15		1			<u> </u>					
	2.1.3.2.1	Base coordination, utility clearance, permitting	2.1		2AA 10 days	Wed 4/15/15	1		ď				İ			į
		Install monitoring wells		* .	2AA 10 days	Wed 4/29/15			Ť				t.	:		1
	2.1.3.2.2	Collect surface water and groundwater samples			2AA 20 days	Wed 4/29/15			X		i			:	1	
3	2.1.3.2.3				2AA 5 days	Wed 7/15/15	1		- 1		1	į	į	į	÷	i
١	2.1.3.2.4	ERIS Submittal				Wed 6/24/15			j			:		:	1 F	:
5	2.1.3.3	HAA-17 - Remediation Investigation/Feasibility Study (RI/FS) Report	:		2AA 235 days		İ					:	-	:	•	:
6	2.1.3.3.1	Prepare Draft RI/FS		0002 000	2AA 40 days	Wed 6/24/15	1			: 1	and the second s			i i		1

WBS Task 2.1.3.3.2	Name Army Review of Draft RVFS	CLIN 0002	Sub-CLIN Duration 0002AA 30 days	Start Wed 8/19/15	2013 2014	2015 2016 2017 2018 2019 2020 2021 2022
2.1.3.3.2	Prepare Response to Army Comments	0002	0002AA 10 days	Wed 9/30/15		
2.1.3.3.4	Army Review of Response to Comments	0002	0002AA 10 days	Wed 10/14/15		
2.1.3.3.5	Army Approval of Draft Final RI/FS	0002	0002AA 0 days	Tue 10/27/15		10/27 ✓ Aimy Ápproval of Draft Final RI/FS
2.1.3.3.6	Submit Draft Final RVFS to GAEPD	0002	0002AA 5 days	Wed 10/28/15		
2.1.3.3.7	GAEPD Review of Draft Final RUFS	0002	0002AA 60 days	Wed 11/4/15		
2.1.3.3.8	Prepare Response to GAEPD Comments (RTC) and Final RI/FS	0002	0002AA 20 days	Wed 1/27/16		ă,
2.1.3.3.9	Army Review/Approval of RTC and Final Rt/FS	0002	0002AA 10 days	Wed 2/24/16		7
2.1.3.3.10	Submit RTC and Final RVFS to GAEPD	0002	0002AA 5 days	Wed 3/9/16		in the state of th
2.1.3.3.11	GAEPD Review of Final RI/FS and RTCs	0002	0002AA 45 days	Wed 3/16/16		
2.1.3.3.11	GAEPD Approval of Final RI/FS	0002	0002AA 0 days	Tue 5/17/16		5/17 ♣ GAEPD Approval of Final RI/FS
	NTP on CLIN 0002AB Proposed Plan/ROD	0002	0002AB 248 days	Wed 3/16/16		
2.2,1	HAA-01, -015, -017 Proposed Plan		146 days	Wed 3/16/16		
2.2.1.1	Prepare Draft Proposed Plan	0002	0002AB 15 days	Wed 3/16/16		
2.2.1.2	Army Review of Draft Proposed Plan	0002	0002AB 30 days	Wed 4/6/16		™ ,
2.2.1.3	Prepare Response to Army Comments	0002	0002AB 5 days	Wed 5/18/16		K l
2.2.1.4	Army Review of Response to Comments	0002	0002AB 10 days	Wed 5/25/16		τ,
2.2.1.5	Army Approval of Draft Final Proposed Plan	0002	0002AB 0 days	Tue 6/7/16		6/7 🗪 Army Approval of Draft Final Proposed Plan
2.2.1.6	Submit Draft Final Proposed Plan to GAEPD	0002	0002AB 5 days	Wed 6/8/16		
2.2.1.6 2.2.1.7	GAEPD Review of Draft Final Proposed Plan	0002	0002AB 30 days	Wed 6/15/16		
2.2.1.8	Prepare Response to GAEPD Comments	0002	0002AB 10 days	Wed 7/27/16		
2.2.1.9	Army Review/Approval of RTC and Final Proposed Plan	0002	0002AB 5 days	Wed 8/10/16		
2.2.1.10	Submit Final Proposed Plan and RTCs to GAEPD	0002	0002AB 3 days	Wed 8/17/16		
2.2.1.11	GAEPD Review of RTC and Final Proposed Plan	0002	0002AB 10 days	Mon 8/22/16		
2.2.1.12	GAEPD Approval of Final Proposed Plan	0002	0002AB 0 days	Fri 9/2/16		9/2 ♣GAEPD Approval of Final Proposed Plan
2.2.1.13	Public Notification	0002	0002AB 1 day	Mon 9/5/16		
2.2.1.14	Public Review Period	0002	0002AB 30 edays	Mon 9/5/16		
2.2.1.15	Public Meeting	0002	0002AB 1 day	Tue 9/13/16		
2.2.2	HAA-01, -015, -017 Record of Decision	0002	0002AB 198 days	Wed 5/25/16		· ·
2.2.2.1	Prepare Draft ROD	0002	0002AB 40 days	Wed 5/25/16		I
2.2.2.2	Army Review of Draft ROD	0002	0002AB 30 days	Wed 7/20/16		$lackbox{lackbox{$ackbox{$lackbox{$lackbox{$lackbox{$lackbox{$lackbox{$ackbox{$lackbox{$ackbox{$ackbox{$lackbox{$ackb$
2.2.2.3	Prepare Response to Army Comments	0002	0002AB 10 days	Wed 8/31/16		
2.2.2.4	Army Review of Response to Comments	0002	0002AB 5 days	Wed 9/14/16		
2.2.2.5	Army Approval of Draft Final ROD	0002	0002AB 0 days	Tue 9/20/16		9/20 ♣¸Army Approval of Draft Final ROD
2.2.2.6	Submit Draft Final ROD to GAEPD	0002	0002AB 5 days	Wed 9/21/16		
2.2.2.7	GAEPD Review of Draft Final ROD	0002	0002AB 45 days	Wed 9/28/16		
2.2.2.8	Prepare Response to GAEPD Comments	0002	0002AB 20 days	Wed 11/30/16		
2.2.2.9	Army Review of RTCs and Final ROD	0002	0002AB 10 days	Wed 12/28/16		
2.2.2.10	Submit RTCs and Final ROD to GAEPD	0002	0002AB 3 days	Wed 1/11/17		
2.2.2.11	GAEPD Review of RTCs and Final ROD	0002	0002AB 30 days	Mon 1/16/17		
2.2.2.12	GAEPD Approval of Final ROD	0002	0002AB 0 days	Fri 2/24/17		2/24 GAEPD Approval of Final ROD
	NTP on CLIN 0002AC Remedial Design/Remedial Action - Construction (RA-C)	0002		Mon 2/27/17		
2.3.1	HAA-01 - Former Fire Training Area and DAACG Chlorinated Solvents Areas		261 days			
2.3.1.1	HAA-01 - Remedial Design/Remedial Action Work Plan (RD/RAWP)	0002	0002AC 210 days	Mon 2/27/17		
2.3.1.1.1	Prepare Draft RD/RAWP	0002	0002AB 20 days	Mon 2/27/17		9 2.
2.3.1.1.2	Army Review of Draft RD/RAWP	0002	0002AB 30 days	Mon 3/27/17		
2.3.1.1.3	Prepare Response to Army Comments	0002	0002AB 10 days	Mon 5/8/17		
2.3.1.1.4	Army Review of Response to Comments	0002	0002AB 10 days	Mon 5/22/17		do Vanna annual of put true promature
2.3.1.1.5	Army Approval of Draft Final RD/RAWP	0002	0002AB 0 days	Fri 6/2/17		6/2 Army Approval of Draft Final RD/RAWP
2.3.1.1.6	Submit Draft Final RD/RAWP to GAEPD	0002	0002AB 5 days	Mon 6/5/17		1 1
2.3.1.1.7	GAEPD Review of Draft Final RD/RAWP	0002	0002AB 60 days	Mon 6/12/17		
2.3.1.1.8	Prepare Response to GAEPD Comments	0002	0002AB 15 days	Mon 9/4/17		•
2.3.1.1.9 2.3.1.1.10	Army Review of RTCs and Final RD/RAWP	0002	and the second s	Mon 9/25/17		
2.3.1.1.10	Submit RTCs and Final RD/RAWP to GAEPD	0002,	11.1	Mon 10/9/17	. ļ	
2.3.1.1.11	GAEPD Review of RTCs and Final RD/RAWP	0002	0002AB 45 days	Mon 10/16/17		12/15 ♣ GAEPD Approval of Final RD/RAWP
2.3.1.1.12	GAEPD Approval of Final RD/RAWP	0002	- m	Fri 12/15/17		1213 CARETO Approvat of Fillal ROTRATTE
2.3.1.2	HAA-01 - Remedial Action - Construction	0002	0002AC 61 days	Mon 12/4/17		
2.3.1.2.1	Base coordination, utility clearance, permitting, mob	0002	0002AC 10 days	Mon 12/4/17		T
2.3.1.2.2	Construction	0002	0002AC 20 days	Mon 12/18/17		
2.3.1.2.3 2.3.1.2.4	Inspection	0002	0002AC 1 day	Mon 1/15/18		:
and the second s	Submit Constuction Completion Technical Memorandum	0002	0002AC 10 days	Tue 1/16/18		
2.3.1.2.5 2.3.1.2.6	Army Review Construction Completion Technical Memorandum	0002	0002AC 20 days	Tue 1/30/18	1 1	2/26 Army Approval of Construction Completion Technical Memorandum
2.3.1.2.6	Army Approval of Construction Completion Technical Memorandum	0002		Mon 2/26/18		ZZO T ALTIS Approval of Construction Completion Technical memoration
2.3.2	HAA-15 - MCA Barracks Site		261 days	Mon 2/27/17		
2.3.2.1	HAA-15 - Remedial Design/Remedial Action Work Plan (RD/RAWP)	0002	0002AC 210 days	Mon 2/27/17		
2.3.2.1.1	Prepare Draft RD/RAWP	0002		Mon 2/27/17		
2.3.2.1.2	Army Review of Draft RD/RAWP	0002	0002AB 30 days	Mon 3/27/17	1	
2.3.2.1.3	Prepare Response to Army Comments	0002	0002AB 10 days	Mon 5/8/17		
2.3.2.1.4	Army Review of Response to Comments	0002	0002AB 10 days	Mon 5/22/17	Avenue	6/2 ♣Army Approval of Draft Final RD/RAWP
2.3.2.1.5	Army Approval of Draft Final RD/RAWP	0002	0002AB 0 days	Fri 6/2/17		A Acmi chitara or pratti mai uhiwant
2.3.2.1.6	Submit Draft Final RD/RAWP to GAEPD	0002	0002AB 5 days	Mon 6/5/17		
2.3.2.1.7	GAEPD Review of Draft Final RD/RAWP	0002	0002AB 60 days	Mon 6/12/17		
2.3.2.1.8 2.3.2.1.9	Prepare Response to GAEPD Comments	0002		Mon 9/4/17	1	
2.3.2.1.9	Army Review of RTCs and Final RD/RAWP	0002	0002AB 10 days	Mon 9/25/17		

			A. 11.1	C. L OLIV C	Ctar	0040	2044	2045	2014	0047
ID 191	WBS Task 2.3.2.1.10	Name Submit RTCs and Final RD/RAWP to GAEPD	CLIN 0002	Sub-CLIN Duration 0002AB 5 days	Start Mon 10/9/17	2013	2014	2015	2016 2	2017 2018 2019 2020 2021 2022
	2.3.2.1.10	GAEPD Review of RTCs and Final RD/RAWP	0002	0002AB 45 days	Mon 10/16/17			•		
	2.3.2.1.12	GAEPD Approval of Final RD/RAWP	0002	0002AB 0 days	Fri 12/15/17				į.	12/15 GAEPD Approval of Final RD/RAWP
94	2.3.2.2	HAA-15 - Remedial Action - Construction	0002	0002AC 61 days	Mon 12/4/17					
15	2.3.2.2.1	Base coordination, utility clearance, permitting, mob	0002	0002AC 10 days	Mon 12/4/17	1				
96	2.3.2.2.2	Construction	0002	0002AC 20 days	Mon 12/18/17	***	:			š ,
7	2.3.2.2.3	Inspection	0002	0002AC 1 day	Mon 1/15/18	Í				
8	2.3.2.2.4	Submit Constuction Completion Technical Memorandum	0002	0002AC 10 days	Tue 1/16/18				1	*
9	2.3.2.2.5	Army Review Construction Completion Technical Memorandum	0002	0002AC 20 days	Tue 1/30/18		:	:	1	ž,
00	2.3.2.2.6	Army Approval of Construction Completion Technical Memorandum	0002	0002AC 0 days	Mon 2/26/18					2/26 Army Approval of Construction Completion Technical Memorandum
01	2.3.3	HAA-17 - TCE Groundwater Contamination		261 days	Mon 2/27/17	<u> </u>		:	1	
02	2.3.3.1	HAA-17 - Remedial Design/Remedial Action Work Plan (RD/RAWP)	0002	0002AC 210 days	Mon 2/27/17					
)3	2.3.3.1.1	Prepare Draft RD/RAWP	0002	0002AB 20 days	Mon 2/27/17					at l
04	2.3.3.1.2	Army Review of Draft RD/RAWP	0002	0002AB 30 days	Mon 3/27/17					Š ,
)5	2.3.3.1.3	Prepare Response to Army Comments	0002	0002AB 10 days	Mon 5/8/17			į		
)6	2.3.3.1.4	Army Review of Response to Comments	0002	0002AB 10 days	Mon 5/22/17				i	T .
07	2.3.3.1.5	Army Approval of Draft Final RD/RAWP	0002	0002AB 0 days	Fri 6/2/17			i i		6/2 🖟 Army Approval of Draft Final RD/RAWP
08	2.3.3.1.6	Submit Draft Final RD/RAWP to GAEPD	0002	0002AB 5 days	Mon 6/5/17					
9	2.3.3.1.7	GAEPD Review of Draft Final RD/RAWP	0002	0002AB 60 days	Mon 6/12/17	1		 		
10	2.3.3.1.8	Prepare Response to GAEPD Comments	0002	0002AB 15 days	Mon 9/4/17	· į	i			ä ,
11	2.3.3.1.9	Army Review of RTCs and Final RD/RAWP	0002	0002AB 10 days	Mon 9/25/17		;	F 1		
	2.3.3.1.10	Submit RTCs and Final RD/RAWP to GAEPD	0002	0002AB 5 days	Mon 10/9/17	1	;			
	2.3.3.1.11	GAEPD Review of RTCs and Final RD/RAWP	0002	0002AB 45 days	Mon 10/16/17	[
1 .	2.3.3.1.12	GAEPD Approval of Final RD/RAWP	0002	0002AB 0 days	Fri 12/15/17			!		12/15 GAEPD Approval of Final RD/RAWP
15	2.3.3.2	HAA-17 - Remedial Action - Construction	0002	0002AC 61 days	Mon 12/4/17	1		}		
16	2.3.3.2.1	Base coordination, utility clearance, permitting, mob	0002	0002AC 10 days	Mon 12/4/17			1		
17	2.3.3.2.2	Construction	0002	0002AC 20 days	Mon 12/18/17	Í				a .
18	2.3.3.2.3	Inspection	0002	0002AC 1 day	Mon 1/15/18	1			i .	
19	2.3.3.2.4	Submit Constuction Completion Technical Memorandum	0002	0002AC 10 days	Tue 1/16/18			t i		请
20	2.3.3.2.5	Army Review Construction Completion Technical Memorandum	0002	0002AC 20 days	Tue 1/30/18	-):):		&
21	2.3.3.2.6	Army Approval of Construction Completion Technical Memorandum	0002	0002AC 0 days	Mon 2/26/18			1 		2/26 Army Approval of Construction Completion Technical Memorandum
22	2.4	NTP on CLIN 0002AD Remedial Action - Operations	0002	0002AD 403 days	Tue 2/27/18	r e		1		
23	2.4.1	HAA-01 - Remedial Action (Operations) [RA(O)] - Year 1	0002	0002AD 403 days	Tue 2/27/18	-		į		
24	2.4.1.1	Operation, Maintenance and Monitoring of System	0002	0002AD 262 days	Tue 2/27/18	}				
25	2.4.1.2	Semi-Annual RA(O) Report - S1	0002	0002AD 141 days	Wed 8/29/18					
26	2.4.1.2.1	Prepare Draft RA(O) Report	0002	0002AD 10 days	Wed 8/29/18				1	1
27	2.4.1.2.2	Army Review of Draft RA(O) Report	0002	0002AD 30 days	Wed 9/12/18					∑ ,
28	2.4.1.2.3	Prepare Response to Army Comments	0002	0002AD 5 days	Wed 10/24/18			1 1 1	1	
29	2.4.1.2.4	Army Review of Response to Comments	0002	0002AD 5 days	Wed 10/31/18	• •	1	4 1 1	1	
30	2.4.1.2.5	Army Approval of Draft Final RA(O) Report	0002	0002AD 0 days	Tue 11/6/18	1	: 1	1		11/6 Army Approval of Draft Final RA(O) Report
31	2.4.1.2.6	Submit Draft Final RA(O) Report to GAEPD	0002	0002AD 3 days	Wed 11/7/18		;	1		
32	2.4.1.2.7	GAEPD Review of Draft Final RA(O) Report	0002	0002AD 45 days	Mon 11/12/18		:	1		
33	2.4.1.2.8	Prepare Response to GAEPD Comments	0002	0002AD 5 days	Mon 1/14/19					
34	2.4.1.2.9	Army Review/Approval of RTC and Final RA(O) Report	0002	0002AD 5 days	Mon 1/21/19	1		-		7,
	2.4.1.2.10	Submit Final RA(O) Report and RTCs to GAEPD	0002	0002AD 3 days	Mon 1/28/19		į [Ţ.
	2.4.1.2.11	GAEPD Review of RTC and Final RA(O) Report	0002	0002AD 30 days	Thu 1/31/19	1				ĕ ,
	2.4.1.2.12	GAEPD Approval of Final RA(O) Report	0002	0002AD 0 days	Wed 3/13/19			į		3/13 ♣ GAEPD Approval of Final RA(O) Report
38	2.4.1.3	Semi-Annual RA(O) Report - S2 (includes exit/ramp down strategy)	0002	0002AD 141 days	Thu 2/28/19					▼
39	2.4.1.3.1	Prepare Draft RA(O) Report	0002	0002AD 10 days	Thu 2/28/19	İ			1	T.
40	2.4.1.3.2	Army Review of Draft RA(O) Report	0002	0002AD 30 days	Thu 3/14/19					
41	2.4.1.3.3	Prepare Response to Army Comments	0002	0002AD 5 days	Thu 4/25/19					
42	2.4.1.3.4	Army Review of Response to Comments	0002	0002AD 5 days	Thu 5/2/19				;	
43	2.4.1.3.5	Army Approval of Draft Final RA(O) Report	0002	0002AD 0 days	Wed 5/8/19		1	į		5/8 🗸 Army Approval of Draft Final RA(O) Report
44	2.4.1.3.6	Submit Draft Final RA(O) Report to GAEPD	0002	0002AD 3 days	Thu 5/9/19					i i i i i i i i i i i i i i i i i i i
45	2.4.1.3.7	GAEPD Review of Draft Final RA(O) Report	0002	0002AD 45 days	Tue 5/14/19					‱ ,
46	2.4.1.3.8	Prepare Response to GAEPD Comments	0002	0002AD 5 days	Tue 7/16/19	· i				T,
17	2.4.1.3.9	Army Review/Approval of RTC and Final RA(O) Report	0002	0002AD 5 days	Tue 7/23/19					T I
	2.4.1.3.10	Submit Final RA(O) Report and RTCs to GAEPD	0002	0002AD 3 days	Tue 7/30/19			1		
	2.4.1.3.11	GAEPD Review of RTC and Final RA(O) Report	0002	0002AD 30 days	Fri 8/2/19					a , :
	2.4.1.3.12	GAEPD Approval of Final RA(O) Report	0002	0002AD 0 days	Thu 9/12/19			:		9/12 → GAEPD Approval of Final RA(O) Report
51	2.4.2	HAA-15 - Remedial Action (Operations) [RA(O)] - Year 1	0002	0002AD 403 days	Tue 2/27/18		i	3		
52	2.4.2.1	Operation, Maintenance and Monitoring of System	0002	0002AD 262 days	Tue 2/27/18			,		
53	2.4.2.2	Semi-Annual RA(O) Report - S1	0002	0002AD 141 days	Wed 8/29/18			:		
54	2.4.2.2.1	Prepare Draft RA(O) Report	0002	0002AD 10 days	Wed 8/29/18					<u> </u>
5	2.4.2.2.2	Army Review of Draft RA(O) Report	0002	0002AD 30 days	Wed 9/12/18					
6	2.4.2.2.3	Prepare Response to Army Comments	0002	0002AD 5 days	Wed 10/24/18		; I	Ì		7,
57	2.4.2.2.4	Army Review of Response to Comments	0002	0002AD 5 days	Wed 10/31/18			:		
58	2.4.2.2.5	Army Approval of Draft Final RA(O) Report	0002	0002AD 0 days	Tue 11/6/18			}		11/6 Army Approval of Draft Final RA(O) Report
59	2.4.2.2.6	Submit Draft Final RA(O) Report to GAEPD	0002	0002AD 3 days	Wed 11/7/18		;			
30 30	2.4.2.2.7	GAEPD Review of Draft Final RA(O) Report	0002	0002AD 45 days	Mon 11/12/18					
61	2.4.2.2.8	Prepare Response to GAEPD Comments	0002	0002AD 5 days	Mon 1/14/19					ř
62	2.4.2.2.9	Army Review/Approval of RTC and Final RA(O) Report	0002	0002AD 5 days	Mon 1/21/19					T I
	2.4.2.2.10	Submit Final RA(O) Report and RTCs to GAEPD	0002	0002AD 3 days	Mon 1/28/19		į			
	2.4.2.2.11	GAEPD Review of RTC and Final RA(O) Report	0002	0002AD 30 days	Thu 1/31/19					
						and a con-				

WBS	Task Name		Sub-CLIN Duration	Start	2013	2014	2015	,2016	2017	2018 2019	2020 2021	2022
5 2.4.2.2.12	GAEPD Approval of Final RA(O) Report	0002	0002AD 0 days	Wed 3/13/19						3/13 ₹ GAEPI	2020 2021 O Approval of Final RA(O) Report	
6 2.4.2.3		0002	0002AD 141 days	Thu 2/28/19	- [:	1 :	1	1	7	- 1
7 2.4.2.3.1		0002	0002AD 10 days	Thu 2/28/19			1		1	•		
8 2.4.2.3.2		0002	0002AD 30 days	Thu 3/14/19		:	;	!	!			
9 2.4.2.3.3	and the state of t	0002	0002AD 5 days	Thu 4/25/19		:		:		5		1
0 2.4.2.3.4	and the second of the second o	0002	0002AD 5 days	Thu 5/2/19								
1 2.4.2.3.5	The first control of the control of	0002	0002AD 0 days	Wed 5/8/19			•			5/8 • Arn	y Approval of Draft Final RA(O) Report	
2 2.4.2.3.6	and the second control of the second control	0002	0002AD 3 days	Thu 5/9/19	.					<u> </u>		
3 2.4.2.3.7	the contract of the contract o	0002	0002AD 45 days	Tue 5/14/19 Tue 7/16/19						1		;
4 2.4.2.3.8		0002	0002AD 5 days 0002AD 5 days	Tue 7/23/19						1		ì
5 2.4.2.3.9	and the second of the second o	0002		Tue 7/30/19	į					1 1	,	į
6 2.4.2.3.10		0002	0002AD 3 days 0002AD 30 days	Fri 8/2/19	[_	į
7 2.4.2.3.11	The state of the s	0002	0002AD 0 days	Thu 9/12/19	·		1	į		0/12	▼GAEPD Approval of Final RA(O) Report	- 1
8 2,4.2.3.12 9 2,4 .3	and the contract of the contra	0002	0002AD 403 days	Tue 2/27/18					1	3/12	W OKCED Approvaror Final KA(O) Report	1
	the state of the s	0002	0002AD 262 days	Tue 2/27/18	ł		į					1
	the control of the co	0002	0002AD 141 days	Wed 8/29/18	*			į		1	1	;
1 2.4.3. 2 2 2.4.3.2.1	, and the contract of the cont	0002	0002AD 10 days	Wed 8/29/18								1
2 2.4.3.2.1 3 2.4.3.2.2	and the contract of the contra	0002	0002AD 30 days	Wed 9/12/18					1			
4 2.4.3.2.3		0002	0002AD 5 days	Wed 10/24/18	-		!		1		;	
5 2.4.3.2.4		0002	0002AD 5 days	Wed 10/31/18			}		* · · · · · · · · · · · · · · · · · · ·	+		1
6 2.4.3.2.5	· · · · · · · · · · · · · · · · · · ·	0002	0002AD 0 days	Tue 11/6/18	1		<u> </u>	1	:	11/6 A Army Annrove	l of Draft Final RA(O) Report	,
7 2.4.3.2.6		0002	0002AD 3 days	Wed 11/7/18	Ž.			:	* !	The state of the s	i i i i i i i i i i i i i i i i i i i	-
8 2.4.3.2.7	and the second of the second o	0002	0002AD 45 days	Mon 11/12/18			!	* 4	1		:	
9 2.4.3.2.8		0002	0002AD 5 days	Mon 1/14/19		;	<u> </u>			7		1
0 2.4.3.2.9		0002	0002AD 5 days	Mon 1/21/19		: 1	1	1		·		į
1 2.4.3.2.10	the contract of the contract o	0002	0002AD 3 days	Mon 1/28/19		į			1	7		į
2.4.3.2.11	the contract of the contract o	0002	0002AD 30 days	Thu 1/31/19	-				;	Z		
3 2.4.3.2.12	The second secon	0002	0002AD 0 days	Wed 3/13/19				1	,	3/13 ♦ GAEPD	Approval of Final RA(O) Report	:
4 2.4.3.3		0002	0002AD 141 days	Thu 2/28/19			1	1	,		→	1
5 2.4.3.3.1	and the contract of the contra	.0002	0002AD 10 days	Thu 2/28/19	*		į			7.		
6 2.4.3.3.2	and the second of the second o	0002	0002AD 30 days	Thu 3/14/19			i			Ž ,		
7 2.4.3.3.3	T	0002	0002AD 5 days	Thu 4/25/19						Ť		
8 2.4.3.3.4		0002	0002AD 5 days	Thu 5/2/19			•	1		*		
9 2.4.3.3.5		0002	0002AD 0 days	Wed 5/8/19)		i !	į		5/8 🐔 Arm	y Approval of Draft Final RA(O) Report	1
0 2.4.3.3.6	the contract of the contract o	0002	0002AD 3 days	Thu 5/9/19				į		i, √		
1 2.4.3.3.7	and the second s	0002	0002AD 45 days	Tue 5/14/19			į	į		Ž		
2 2.4.3.3.8	and the state of t	0002	0002AD 5 days	Tue 7/16/19				1	:	i i		
3 2.4.3.3.9	Army Review/Approval of RTC and Final RA(O) Report	0002	0002AD 5 days	Tue 7/23/19				1	r •	i K	<u> </u>	;
4 2.4.3.3.10	Submit Final RA(O) Report and RTCs to GAEPD	0002	0002AD 3 days	Tue 7/30/19	İ		1			· i · · · · · · · · · · · · · · · · · ·	t 1	-
5 2,4.3.3.11	GAEPD Review of RTC and Final RA(O) Report	0002	0002AD 30 days	Fri 8/2/19	-		1	•			a 1	
6 2.4.3.3.12	GAEPD Approval of Final RA(O) Report	0002	0002AD 0 days	Thu 9/12/19			!			9/12	GAEPD Approval of Final RA(O) Report	:
7 3		Monitoring 0003	1177 days	Thu 1/1/15			Ý		1	1		1
_	(RA(O)/LTM)			Th 46414	ļ							-
8 3.1		0003	0003AA 378 days	Thu 1/1/15			Y					
9 3.1.1		0003	•	Thu 1/1/15 Thu 1/1/15			Walter State College					
0 3.1.1.1	the control of the co	0002	0003AA 261 days 0003AA 230 days	Thu 1/1/15					:			1
3.1.1.2		0003	0003AA 65 days	Thu 1/1/15	-		Nonescone	→				;
2 3.1.1.2.1 3 3.1.1.2.2		0003	0003AA30 days	Thu 4/2/15			*					
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4 3.1.1.2.3 5 3.1.1.2.4		0003	0003AA 10 days	Thu 5/28/15		:	7		 	1	:	
5 3.1.1.2.4 6 3.1.1.2.5		0003	0003AA 0 days	Wed 6/10/15			6/10 Arm	y Approval of Draft	Final UST Permit Modifica	tion	:	i
7 3.1.1.2.6	the state of the s	0003	0003AA 5 days	Thu 6/11/15			**		,	T :	1	-
3.1.1.2.0 8 3.1.1.2.7		0003	0003AA 45 days	Thu 6/18/15					Ì			;
9 3.1.1.2.6			0003AA 20 days	Thu 8/20/15	•		T Y	. 1	\$ 4			;
0,1,1,2.0		***************************************						1	į	1		
0 3.1.1.2.9	Army Review/Approval of RTC and Final UST Permit Modification	0003	0003AA 10 days	Thu 9/17/15			 	1				
1 3.1.1.2.10	Submit RTC and Final UST Permit Modification to GAEPD	0003	0003AA 5 days	Thu 10/1/15]	<u>K</u> (1		-
2 3.1.1.2.11		0003	0003AA 30 days	Thu 10/8/15								
3 3,1,1,2,12	GAEPD Approval of Final UST Permit Modification	0003	0003AA 0 days	Wed 11/18/15			11/1	18 🗸 GAEPD Approv	val of Final UST Permit Mo	dification		;
4 3.1.1.3	Release 2 UST Permit Modification Implementation	0003	0003AA 101 days	Thu 11/19/15				4				i
5 3.1.1.3.1	Base coordination, utility clearance, permitting, mob	0003	0003AA 10 days	Thu 11/19/15	. 1		li.	U				
6 3.1.1.3.2	· · ·	0003	0003AA 40 days	Thu 12/3/15								:
7 3.1.1.3.3		0003	0003AA 1 day	Thu 1/28/16				IJ <u>Ţ</u>	;			
8 3.1.1.3.4		0003	0003AA 20 days	Fri 1/29/16	1		li .	₫_	į			
9 3.1.1.3.5		0003	0003AA 30 days	Fri 2/26/16			Įį.	Ča_				1
0 3.1.1.3.6		0003	0003AA 0 days	Thu 4/7/16				4/7 🍑 Army A	opproval of Construction C	ompletion Technical Memorandum		
1 3.1.1.4		0003	0003AA 141 days	Thu 3/5/15		1		? :		:		1
2 3.1.1.4.1		0003	0003AA 10 days	Thu 3/5/15				:				
3 3,1,1,4,2	Army Review of Draft RA(O) Report	0003	0003AA 30 days	Thu 3/19/15			L	:	i !			i
4 3.1.1.4.3	Prepare Response to Army Comments	0003	0003AA 5 days	Thu 4/30/15	-		<u> </u>	1	į			1
5 3.1.1.4.4	Army Review of Response to Comments	0003	0003AA 5 days	Thu 5/7/15			Ţ					1
6 3.1.1.4.5		0003	0003AA 0 days	Wed 5/13/15			5/13 ₹ Army	Approval of Draft Fi	nal RA(O) Report			:
	Submit Draft Final RA(O) Report to GAEPD	0003	0003AA3 days	Thu 5/14/15				1.1	,			

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Company					0 1 01 11 0	*C1+-1	2014 2015 2010 2017 2019 2010	2020 2021 2022
10 1.0	ID		Name		Sub-CLIN Duration	. Start Tue 5/19/15	2014 2015 2016 2017 2018 2019	2020 2021 2022
10 1.1.1.1.1			and the control of th			A CONTRACTOR OF THE CONTRACTOR		
The content of the			The state of the s				•	
1.	440	3.1.1.4.9	The state of the s					
Company Comp	441	3.1.1.4.10	Submit Final RA(O) Report and RTCs to GAEPD		in a mark and a second control of the control of th			
March Marc	442	3.1.1.4.11	GAEPD Review of RTC and Final RA(O) Report		and the second second			
Company Comp	443	3.1.1.4.12	GAEPD Approval of Final RA(O) Report	0003	0003AA 0 days		9/17 ♦ GAEPD Approval of Final RA(O) Report	
1. 1. 1. 1. 1. 1. 1. 1.	444	3.1.1.5	Quarterly RA(O) Report - Q2	0003	0003AA 141 days	Wed 6/3/15		
Mary Company	445			0003	0003AA 10 days	Wed 6/3/15	}3 ,	
Company Comp	and the second second		the state of the s	0003	0003AA 30 days	Wed 6/17/15		
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10 1.1.1.1	456	3.1.1.5.12	GAEPD Approval of Final RA(O) Report			A A CONTRACTOR OF THE CONTRACT	1216 🍎 GAEPD Approval of Final RA(O) Report	
1.6.	457	3.1.1.6	Quarterly RA(O) Report - Q3					
Color	458	3.1.1.6.1	Prepare Draft RA(O) Report	0003	0003AA 10 days	a and a second s	19 _	
40				0003	0003AA 30 days	Tue 9/15/15		
1.15.1.5 Amy Process of Commune 0.003 0.000-0.004		and the second s	The state of the s	0003	0003AA 5 days	Tue 10/27/15		
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1.1.1.6 Calculate Delivary (Appendix CAL) Proceedings Process Proc			and the contract of the contra				1/19 👗 Army Approval of Draft Final RA(O) Report	
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3.4.1.3.	Army Review of Response to Comments	0003	0003AD 5 days	Fri 2/22/19					14		
3.4.1.3.		0003	0003AD 0 days	Thu 2/28/19				2/2	8 Army Approval of Draft Fi	nal RA(O) Report	
3.4.1.3.	S Submit Draft Final RA(O) Report to GAEPD	0003	0003AD 3 days	Fri 3/1/19					I C		
3.4.1.3.	GAEPD Review of Draft Final RA(O) Report	0003	0003AD 45 days	Wed 3/6/19			1		4		
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0 3.5.1.2.	the contract of the contract o	0000	00024553								
3.5.1.2. 31 3.5.1.2.	Prepare Response to GAEPD Comments	0003	0003AE 5 days	Mon 10/29/18				,			
3.5.1.2.	Prepare Response to GAEPD Comments Army Review/Approval of RTC and Final RA(O) Report	0003 0003 0003	0003AE 5 days 0003AE 5 days 0003AE 3 days	Mon 10/29/18 Mon 11/5/18 Mon 11/12/18				Ţ			

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ID	WBS Ta: 3.5.1.2.11	sk Name GAEPD Review of RTC and Final RA(O) Report	CLIN 0003	Sub-CLIN Duration 0003AE 30 days	Start Thu 11/15/18	2013	2014	2015	2016	2017	2018	2019	,2020	2021	2022
585	3.5.1.2.11	GAEPD Approval of Final RA(O) Report	0003	0003AE 0 days	Wed 12/26/18							40100 × CAEDD 4-			
586		Well Abandoment Plan	0003	261 days	Mon 7/2/18		1					12/26 GAEPD Ap	proval of Final KALO	кероп	1
587	4.1	NTP on CLIN 0004AA - Well Abandonment Planning and Execution	0004	261 days	Mon 7/2/18	-	i		Í				1	}	
588	4.1.1	Well Abandoment Plan	0004	0004AA 123 days	Mon 7/2/18			į		;	•	▼	1 6		1
589	4.1.1.1	Prepare Draft Well Abandonment Plan	0004	0004AA 123 days	Mon 7/2/18			;	:	;	•	•			
590	4.1.1.2	Army Review of Draft Well Abandonment Plan	0004	0004AA 15 days	Mon 7/16/18			i i				-	(
591	4.1.1.3	Prepare Response to Army Comments	0004	0004AA 5 days	Mon 8/6/18			!	,		•	<u>}</u>			
592	4.1.1.4	Army Review of Response to Comments	0004	0004AA5 days	Mon 8/13/18			i				\			
593	4.1.1.5	Army Approval of Draft Final Well Abandonment Plan	0004	0004AA 0 days	Fri 8/17/18	{	!				0147	Army Approval of E		J	
594	4.1.1.6	Submit Draft Final Well Abandonment Plan to GAEPD	0004	0004AA 1 day	Mon 8/20/18			1	-	1	0111	Army Approvaror	rait Fina Hen Abai	uonment Pian	į
595	4.1.1.7	GAEPD Review of Draft Final Well Abandonment Plan	0004	0004AA 45 days	Tue 8/21/18				1			•			;
596	4.1.1.8	Prepare Response to GAEPD Comments (RTC) and Final Well Abandonment Plan	0004	0004AA 5 days	Tue 10/23/18		:	•			ĺ	—			
330	4.1.1.0	Trepore response to other procedures (1770) and This restriction that	0004	00047010 0033	100 10/20/10				į			<u>" </u>	:	į	
597	4.1.1.9	Army Review/Approval of RTC and Final Well Abandonment Plan	0004	0004AA 5 days	Tue 10/30/18							7		;	
598	4.1.1.10	Submit RTC and Final Well Abandonment Plan to GAEPD	0004	0004AA 2 days	Tue 11/6/18							*			;
599	4.1.1.11	GAEPD Review of Final Well Abandonment Plan and RTCs	0004	0004AA30 days	Thu 11/8/18	1				į	:	*	:		•
600	4.1.1.12	GAEPD Approval of Final Well Abandonment Plan	0004	0004AA 0 days	Wed 12/19/18	į		-			;	12/19 GAEPD App	roval of Final Well A	bandonment Plan	
601	4.1.2	Implement Well Abandonment	0004	0004AA30 days	Thu 12/20/18			;			-	-	:	;	
602	4.1.2.1	Base coordination, permitting, mob	0004	0004AA 10 days	Thu 12/20/18	}		1		}	i	Ť	:		
603	4.1.2.2	Abandon wells	0004	0004AA 20 days	Thu 1/3/19			i		:	-	Ž,	į		
604	4.1.3	Well Abandonment Report	0004	0004AA 98 days	Thu 2/14/19	**				!	:		:		
605	4.1.3.1	Prepare Preliminary Draft Final Annual Well Abandonment Report	0004	0004AA 10 days	Thu 2/14/19			1	!			Ť	<u> </u>		
606	4.1.3.2	Army Review Preliminary Draft Final of Annual Well Abandonment Report	0004	0004AA 15 days	Thu 2/28/19	1		1				Š,	<u>;</u>		
607	4.1.3.3	Prepare Draft Final Annual Well Abandonment Report (includes RTCs)	0004	0004AA 5 days	Thu 3/21/19			1	:			ř	1		
608	4.1.3.4	Army Review Draft Final Annual Well Abandonment Report	0004	0004AA 5 days	Thu 3/28/19							Ĭ,			
609	4.1.3.5	Army Approve Draft Final Annual Well Abandonment Report	0004	0004AA 0 days	Wed 4/3/19					[4/3 🗸 Army	Approve Draft Final	Annual Well Abandonn	ent Report
610	4.1.3.6	Submit Draft Final Annual Well Abandonment Report to GAEPD	0004	0004AA 1 day	Thu 4/4/19	i i		į		ì		I.	į		į ·
611	4.1.3.7	GAEPD Review of Draft Final Annual Well Abandonment Report	0004	0004AA 30 days	Fri 4/5/19			į			1		:	:	
612	4.1.3.8	Response to GAEPD Comments	0004	0004AA 5 days	Fn 5/17/19							Ť	:	Í	1
613	4.1.3.9	Army Review and Approval of Response to Comments	0004	0004AA 5 days	Fri 5/24/19			1				ř	:	1	:
614	4.1.3.10	Final Annual Well Abandonment Report Submittal to GAEPD	0004	0004AA 2 days	Fri 5/31/19	1		:	;		1	Ť	;	!	
615	4.1.3.11	GAEPD Review of Final Annual Well Abandonment Report	0004	0004AA 20 days	Tue 6/4/19			r I	:	\$!		, š	:	į	
616	4.1.3.12	Army and GAEPD Approval of Final Annual Well Abandonment Report	0004	0004AA 0 days	Mon 7/1/19	1	1			(7/1 ₹ A	rmy and GAEPD App	roval of Final Annual	vell Abandonment Repo



Appendix E

Milestone Billing Schedule

Page 1 of 3

Milestone Billing Schedule Hunter Army Airfield - W9124J-13-D-0009 Task Order 0004 Revision Date: May 21, 2014

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mer Fi		of Core Documents (PMP, QCP, HASP, QAPP, SAP, OPSEC SOP)		Project Management Flan (FMP)	Draft FMF - Respond to Army Conuncuts			Kemedial Investigation/Feasibility Report	Auny Approval Drait Nors West Flant - 12-2-01	Army Approval/Regulatory Concurrance Final KLFS Work Pla [HAA-01]	Army Approval Draft RI/FS Report - HAA-01	proval/Regulatory Concurrance Final	Army Approval Draft RI/FS Work Plan - HAA-15	proval/Regulatory Concurrance Final	Army Approval Draft RI/FS Report - HAA-15	Army Approval/Regulatory Concurrance Final RI/FS Report - HAA-15	Army Approval Draft RI/FS Work Plan - HAA-17	proval/Regulatory Concurrance Final	proval Draft RI/FS Report - HAA-17		(Option) Proposed Plan/Record of Decision	Army Approval Draft Proposed Plan - HAA-01	proval/Regulatory Concurrance Final	Army Approval Draft ROD - HAA-01	Army Approval/Regulatory Concurrance Final ROD - HAA-01	(Option) Remedial Design/Remedial Action - Construction			Army Approval Draft RA Completion Report - HAA-01	Army Approval/Regulatory Concurrance Final RA Completion Report - HAA-01	Army Approval Draft RA Work Plan - HAA-15	Army Approval/Regulatory Concurrance Final RA Work Plan- HAA-15	Army Approval Draft RA Completion Report - HAA-15	Army Approval/Regulatory Concurrance Final RA Completion Report - HAA-15		Army Approval/Regulatory Concurrance Final RA Work Plan- HAA-17	Army Approval Draft RA Completion Report - HAA-17	Army Approval/Regulatory Concurrance Final RA Completion Report - HAA-17
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Milestone Billing Schedule Hunter Army Airfield - W9124J-13-D-0009 Task Order 0004 Revision Date: May 21, 2014

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