

Site Visit Report and Work Task Proposal Former Camp Hero Montauk, New York

U.S. Army Corps of Engineers
New York District
and
U.S. Corps of Engineers
Huntsville Center



Contract No. DACA87-00-D-0038
Task Order 0002

Prepared by

PARSONS, INC.

January 2001

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PARSONS

Parsons Infrastructure & Technology Group Inc.

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January 15, 2001

U.S. Army Engineering & Support Center
ATTN: CEHNC-OE-DC (Roland Belew)
4820 University Square
Huntsville, AL 35816-1822
256-895-1553

Subject: Contract No. DACA87-00-D-0038
Task Order No. 0002
Site Visit Report and Work Task Proposal Deliverable
Former Camp Hero, Montauk, New York

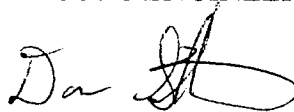
Dear Mr. Belew:

Enclosed please find four (3) copies of the Site Visit Report and Work Task Proposal for the former Camp Hero Engineering Evaluation/Cost Analysis Project. Per your January 5, 2001 Email request one (1) copy each has been simultaneously sent to Mr. David Brouwer and Ms. Luz Spann-LeBato, USACE New York District. The document will be posted in the password protected portion of the project website at www.projecthost.com shortly.

Please contact me at (678) 969-2384 (direct line) if you have any questions or require additional copies of this report.

Sincerely,

PARSONS ENGINEERING SCIENCE, INC.



Don Silkebakken P.E.
Project Manager

cc: Luz Spann-LeBato – CENAN (1 copy)
Dave Brouwer – CENAN (1 copy)
Project File, 739306



**FORMER CAMP HERO EE/CA
MONTAUK, NEW YORK
WORK TASK PROPOSAL**

PREPARED FOR:
U.S. Army Corp of Engineers
New York District
and
U.S. Army Corp of Engineers
Huntsville Center

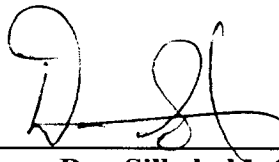
Task Order: 0002
Contract # DACA87-00-D-0038
FUDS Project Number C02NY002402

PREPARED BY:
Parsons, Inc.
100 West Walnut Street
Pasadena, California 91124

Project Number: 739306

January 2001

PREPARED BY:

 1/15/01

Don Silkebakken
Project Manager

SECTION 1: PROJECT DESCRIPTION AND OBJECTIVES

Parsons, Inc. (Parsons) received Contract No. DACA87-00-D-0038, Task Order No. 0002, from U.S. Army Corps of Engineers, Engineering and Support Center, Huntsville (USAESCH), to conduct an Engineering Evaluation/Cost Analysis (EE/CA) at the former Camp Hero (the Camp), Montauk, New York. The Camp, consisting of approximately 469 acres, is located on the extreme eastern tip of the south fork of Long Island, New York, approximately 5 miles east of the Village of Montauk.

The Camp was established in early 1942 as a Coastal Defense Installation to defend the approaches to New York and was named in honor of Major General Andrew Hero. Three self sufficient batteries (Battery 112, 113, and 216) and supporting facilities were constructed which included barracks, mess halls, hospital facilities, a motor repair shop, a recreation facility, sentry boxes, and water supply and sewage facilities. A total of 600 enlisted men and 37 officers were stationed at the Camp. Battery 216 contained two M1903A2 6-inch shielded guns that were delivered to the battery in January 1943. Battery 113 (also known as Battery Dunn) consisted of two Navy MKIIM1 16-inch casemated guns that were completed on June 5, 1943. The guns of Battery 112 were identical to Battery 113 and were completed on January 12, 1944. Additionally, 37mm weapons and .50 caliber antiaircraft weapon platoons were assigned to protect the Camp from air attack. The Camp's weaponry was periodically fired in practice over water but was never fired as a result of an act of hostility.

The Camp was placed on inactive status on July 31, 1947 and ultimately declared surplus by the Department of the Army on December 31, 1949. Simultaneously a portion of the Camp lands were also transferred to the Department of the Air Force for an aircraft control and warning station. On January 24, 1951 the Camp was withdrawn from surplus and designated for use as a firing range and field exercise area for antiaircraft artillery (AAA) from Fort Totten, NY. Arrangements were made for the permanent Army AAA cadre at the camp. 90mm and quad .50 caliber antiaircraft artillery began firing exercises from firing positions established in the southern bluff overlooking the Atlantic ocean.

In 1952 the Air Force property was renamed the Montauk Air Force Station and was occupied by the 773rd Aircraft Control and Warning Squadron. Training continued using 90mm and 120mm guns, 3.5-inch rockets, and .50 caliber guns until 1957. The facility was inactive until October 1958 when the 773rd ACWS was redesignated as the 773rd Radar Squadron with a new mission to provide surveillance data of air traffic in the area. In order to accomplish this mission, an advanced Specific Frequency Diversity Search Radar was built in late 1960. The facility was closed in 1982. Between 1974 and 1984 all site lands were transferred to State, Local, and other Federal agencies.

The EE/CA for the former Camp will implement ordnance and explosives (OE) risk management actions in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and in substantial compliance with the National Contingency Plan (NCP). In accordance with the NCP on-site actions will not require Federal, State, or local permits. The EE/CA will adhere to the Defense

Environmental Restoration Program (DERP) for Formerly Used Defense Sites (FUDS) and relevant U.S. Army regulations and guidance for OE programs.

The purpose of the EE/CA is to characterize OE contamination, analyze risk management alternatives, and recommend feasible OE risk reduction alternatives for Areas of Interest (AOIs) identified within the approximately 469 acres comprising the former Camp. The objective of this EE/CA project is to select the most appropriate response action necessary to reduce public safety risk associated with OE/unexploded ordnance (UXO) at the former Camp.

The EE/CA will focus on conventional OE/UXO risks requiring non-time-critical removal actions (NTCRAs) within the boundaries of the former Camp. The OE remedial activities as stipulated in the USAESCH Statement of Work (SOW) for Task Order No. 0002 will be detailed in the approved Work Plan. During the EE/CA, site characterization efforts involving sampling and data collection will be conducted to determine or classify those portions of the site that are contaminated or potentially contaminated with OE/UXO and to estimate the type and density of OE/UXO contamination.

SECTION 2: PROJECT SCOPE

The scope of work for this delivery order requires completion of thirteen specific tasks to implement the EE/CA for the former Camp:

Task 1 – Project Planning, Site Visit and Records Review;

Task 1A – Site Visit and Records Review; and

Task 1B – Work Task Proposal.

Task 2 – Geophysical Test Plot;

Task 3 – Technical Project Planning;

Task 4 – EE/CA Work Plan;

Task 5 – Location Surveys and Mapping;

Task 6 – Establishment and Management of GIS;

Task 7 – Site Characterization;

Task 7A – Surface Preparation, OE Identification and Removal;

Task 7B – Geophysical Equipment Test; and

Task 7C – Investigation.

Task 8 – Intrusive Investigations (OE Sampling);

Task 9 – Prepare Institutional Analysis, Impact Analysis and EE/CA Report;

Task 9A – Institutional Analysis;

Task 9B – Impact Analysis; and

Task 9C – EE/CA Report.

- Task 10 – Prepare Action Memorandum;
- Task 11 – Community Relations Support;
- Task 12 – Meetings and Project Management; and
- Task 13 – Project Documentation.

A brief description of each task is presented below:

Task 1 - Project Planning, Site Visit and Records Review

Task 1A – Site Visit and Records Review. An initial Site Visit was conducted between December 18, 2000 and December 22, 2000 under USAESCH SOW for Task Order No. 0002 (this order). The purpose of the Site Visit was to survey the former Camp Hero for familiarity, visually inspect areas identified as confirmed or potentially contaminated with OE in the ASR, photograph the Areas of Interest (AOIs) for potential EE/CA, and meet with local regulatory agencies. In addition, the intention was to qualitatively evaluate applicability of various geophysical approaches for implementation during the EE/CA.

Prior to the Site Visit, an abbreviated site safety and health plan (ASSHP) was prepared and approved by USAESCH. In addition, the SOW was reviewed in detail to provide the team with a clear understanding of past activities conducted at the former Camp. The Archives Search Report was not available for review prior to the Site Visit.

Task 1B – Work Task Proposal. A Work Task Proposal (this document) will be prepared to describe and plan the accomplishment of the individual activities defined in the SOW (Attachment 1 of the Site Visit Report). This WTP includes descriptions of work to be accomplished, recommendations on approach, coordination, organization, methods, personnel, schedule and estimated budget.

Task 2 - Geophysical Test Plot

Under this task, Parsons will design and construct a test plot at the former Camp to test various geophysical methods and equipment in order to determine the methods, equipment and procedures best suited for the former Camp. A site specific Geophysical Test Plot Work Plan will be prepared for government review and approval prior to mobilization for the onsite Prove-Out. This task is primarily for the mobilization, construction, removal and demobilization of the test plot. Task 7B addresses conducting the Prove-Out, interpretation of the data, and selection of equipment. A Prove-Out Report will be prepared to document the selection process and will be submitted to USAESCH for review and approval prior to the EE/CA field investigation.

Task 3 - Technical Project Planning

Parsons will prepare a Technical Project Planning (TPP) report for the former Camp. This report will document the four phases of the TPP process, as outlined in Engineering Manual 200-1-2 (August 31, 1998): Phase I – Identify current project; Phase II – Determine data needs; Phase III – Develop data collection; and Phase IV – Finalize data collection program.

Phase I will determine from any historical information obtained:

- Decision makers (USACE, landowner(s), and regulatory agency representatives).
- Project objectives, to include the decision maker's perspective and the community's needs and interests as it pertains to this project.
- Site constraints and dependencies (access agreements, real estate easements, funding, and physical constraints).
- Legal and regulatory constraints.
- Conceptual Site Model (known impact areas, all types of potential UXOs at site, geological setting, and an estimate of maximum probable depth for sampling.).
- Site closeout statement for each land use category or sector as appropriate.

The site closeout statement will include current and future land use information, actions required to achieve site closeout, local initiatives, enlist community support, and encourage future monitoring of the former Camp.

During Phase II, Parsons will identify the data needed, intended use of data, sampling and analysis methods, identify the quality objectives for each data type, evaluate the usability of existing data, and identify data gaps to be filled.

Phase III will entail planning the sampling and analysis approaches to meet the data needs for Phase II. The data quality and intended use of the each data type will be defined along with sampling strategies, field screening and analysis technologies.

Phase IV involves the development of a detailed data collection program. This program will provide a schedule with budget affects for various collection options. Items such as constraints and uncertainties and regulatory factors must be addressed. The goal of this phase is to identify the preferred data collection plan based on data need requirements, data sampling and analysis methods, and the use of the data to satisfy the closeout statement in Phase I.

Task 4 – EE/CA Work Plan

This task requires Parsons to evaluate incorporate the findings presented in the ASR and subsequent site information collected after the Site Visit (Parsons, 2001) and TPP to prepare and submit a Work Plan (WP) to conduct the EE/CA at the former Camp. The WP will concisely describe the policies, organizations, objectives, functional activities, and quality control activities required to achieve the data quality objectives for the project. The WP will be prepared in accordance with the SOW and USAESCH guidance (DID OE-005-01).

The WP will include a detailed site safety and health plan (SSHP) and Quality Control Plan (QCP). The QCP will describe both quality control and quality assurance,

however, quality assurance activities will be conducted by USAESCH. The QCP will be prepared in accordance with the SOW and USAESCH guidance (DID OE-005-11).

The WP may also include the following subplans, as applicable:

- Technical Management Plan;
- Explosives Management Plan;
- Explosives Siting Plan;
- Geophysical Investigation Plan;
- Location Surveys and Mapping Plan;
- Work, Data, and Cost Management Plan;
- Environmental Resources Protection Plan; and
- Geographic Information Systems Plan

The draft and draft-final WP will be submitted to USAESCH and USACE New York District (CENAN) for review. The maximum number of copies submitted will be per SOW (6 each to USAESCH, 6 each to CENAN) but may be reduced as a result of electronic posting to the project website to be established at www.projecthost.com as directed by the USAESCH PM. Comments will be incorporated into the final WP to be submitted to the Contracting Officer for acceptance prior to the start of fieldwork.

Task 5 – Location Surveys and Mapping

Parsons will perform location surveys as outlined in the approved WP and in accordance with DID OE-005-07. If sampling grids are established at the former Camp, grid corners will be surveyed and depicted on appropriate scale site maps. If geophysics is conducted using the meandering path methodology, the complete traverses will be depicted. In addition, a minimum information base map will be provided that identifies roads and highways, trails, sector boundaries, proposed grid sampling locations, and any OE items that are found and their location.

Task 6 – Establishment and Management of GIS

This task includes the establishment of the GIS and entry into the GIS of aerial photography, topographic maps, existing site maps, and other appropriate data that will be used to develop the WP and EE/CA Report(s), support the field effort, and maintain the database. The GIS file will be set-up in accordance with the SOW, the approved WP, and current USAESCH DID guidance.

Task 7 – Site Characterization

Task 7A – Surface Preparation, OE Identification and Removal. This subtask includes all surface preparation in support of either establishment of grids or meandering paths. Qualified UXO personnel will conduct visual OE surface sweeps of all areas

identified for geophysical survey to ensure the areas are free of surface OE hazards. In addition, access routes to survey locations will be delineated and will also be cleared of surface OE. Once visually cleared of OE, UXO-qualified escorts will not be required for subsequent non-intrusive site activities. Any OE/UXO discovered during the surface sweeps will be either removed or detonated per approved project WP procedures.

Parsons and its Subcontractors may perform limited brush cutting (as defined in the SOW) to accommodate geophysical equipment and to aid in identifying OE and OE scrap. Certain plants and trees that are two or three inches or greater in diameter will not be cut. The outright clearing of perennial vegetation will not be performed. Vehicular traffic will also be restricted as necessary. The WP will outline in detail precautions that will be implemented to ensure impacts are minimized at the former Camp.

Task 7B – Geophysical Equipment Test. Various geophysical equipment will be tested during the Geophysical Prove-Out in order to identify the appropriate equipment to be used during the geophysical investigation. This subtask will be performed coincident with Task 2 – Geophysical Test Plot. This subtask addresses conducting the Prove-Out, interpretation of the data, and selection of equipment. A Prove-Out Report will be prepared to document the selection process and will be submitted to USAESCH for review and approval prior to the EE/CA field investigation.

Task 7C – Investigation. Geophysical surveys will be performed at each established grid or transect location. An estimated 12.5 acres or less will be geophysically surveyed at the former Camp. The instrument(s) used to detect OE contamination at the former Camp will be recommended based on the results of the Geophysical Prove-Out and approved by USAESCH. Parsons will provide all of the necessary equipment and personnel to perform the geophysical investigation activities. If UXO is discovered during the investigation and identified as containing a military toxic chemical agent, all operations will cease immediately within 500 feet of the former Camp. Parsons will notify the USAESCH PM immediately who will in-turn request military EOD support. If the grid or transect location is critical to the AOI, the Parsons PM will be consulted to identify, direct, recommend, and approve an alternate geophysical survey location.

Parsons will acquire USGS topographic maps for the former Camp. This information will be used in conjunction with other historical information obtained to develop the investigation map for the former Camp. The total area to be investigated is approximately 12.5 acres or less to be distributed over 52.91 acres. For grids, a nominal size of 100' by 100' will be typically used. Due to the nature of the "meandering path" geophysical methodology, exact transect locations will not be selected and depicted on WP maps. Approximate transect starting points will be designated on WP maps to provide representative site coverage and will be adjusted in the field. Geophysical equipment will simultaneously collect GPS survey data, as detailed in the WP. Following the fieldwork, the transect locations will be accurately plotted on site maps based on the GPS survey data.

Anomaly locations (coordinates) will be recorded on a "per grid" or "per transect" basis using the GPS unit. Anomaly locations to be intrusively investigated will be

reacquired for excavation by the UXO Subcontractor, USA Environmental, Inc. (USA).

The UXO Subcontractor will establish an equipment test area that will consist of appropriate inert (or equivalent) UXO items buried at various depths. The geophysical equipment will be checked on the test grid periodically and readings documented. A standard response will be established for each unit. If test results indicate the unit is out of compliance, the unit will be replaced or repaired as necessary.

The areas selected to be geophysically investigated at the former Camp are:

Sector H – Ordnance Destruction Range (8 acres);

Sector K – Near Shore Ordnance Area (44.88 acres); and

Sector A – Fire Control/37mm AAA Station (0.03 acres).

Task 8 – Intrusive Investigations (OE Sampling)

Prior to mobilization for the field effort, sampling grid and/or transect locations within the investigation areas will be tentatively selected and transcribed onto site maps. Adjustments to these locations will subsequently be made to avoid ravines, buildings, thick vegetation, or other obstacles.

Intrusive investigations of selected identified anomalies (suspected OE/UXO) will be conducted in each sampling grid and/or meandering path. The Parsons Geophysical Coordinator, with concurrence of the USAESCH PM, will select the anomalies to be excavated. Not all identified anomalies will necessarily be excavated. Following the interpretation of the geophysical survey data, Parsons will propose a methodology to USAESCH for approval for selection of anomalies for intrusive investigation. As site specific “intelligence” is gathered, the selection process may be modified with USAESCH approval.

The intrusive investigation effort will be conducted coincident with the geophysical survey activities after onsite data interpretation by the Geophysical Coordinator. Qualified USA personnel will perform the intrusive investigation. USA will document pertinent features of all excavated anomalies including a description of the object, an estimate of size and weight, orientation, and the depth at which the item was found. Reacquisition of each selected anomaly identified during the geophysical investigation and presented on the Anomaly Dig Sheets will be performed using the same model geophysical equipment utilized on the individual grid or transect.

Due to the isolated nature of the former Camp, minimal public inconvenience is anticipated as a result of intrusive activities. Montauk Highway is the only paved road that may be within a Minimum Separation Distances (MSDs) that will be established at the former Camp. Anomalies where the USAESCH-calculated MSD overlaps the highway may require either temporary short-term closure of the road during excavation periods or excavation only when there is no vehicular traffic. No evacuations of residents will be required at the former Camp since no residential, commercial, or industrial buildings are located within the maximum estimated MSDs. However, during the two weeks of intrusive investigation, portions of the beach may need to be closed). Every

effort will be made to minimize impacts to the public.

Since the State of New York (Parks Department) owns all the property within the areas of concern, no coordination of Rights-of-Entry will be required.

Destruction of UXO encountered during the site investigation and characterization will be closely monitored by the UXO Safety Officer (UXOSO) and the Senior UXO Specialist (SUXOS). Fuzed items will be blown-in-place (BIP). Records of all UXO destruction activities will be kept in the safety logbook to document all related efforts. UXO destruction activities involving the use of explosives will be completed in accordance with the demolition/disposal procedures set forth in the approved WP.

USA will notify the Parsons Site Manager (SM) and onsite USAESCH representative (if designated) if UXO is encountered and determined to be unsafe to move and the situation precludes BIP. Two UXO specialists will secure the item until such time that a consensus is reached concerning what actions to take regarding the UXO. USA will then proceed as directed by Parsons. In general, positively-identified, unfuzed ordnance found too close to valuable property to be safely destroyed in place shall be transported to the designated demolition area (yet to be determined), if it is determined safe to do so by the UXOSO or SUXOS. No demolition activities will be performed that may jeopardize any historical or archaeological sites.

Ordnance scrap and recovered metal debris may be temporarily stored on site at a designated location approved by USAESCH and will be easily accessible by vehicle. Inert ordnance items will be vented prior to final staging as refuse for turn-in as described in the SOW.

On-site explosive storage magazines will not be required for this project. USA will make arrangements with an on-call explosives supplier to be available during the intrusive investigation phase.

UXO items rendered safe on-site and all scrap recovered will be disposed off-site through a local scrap dealer. Form DD-1348-1A will be completed as described in the SOW. Turn in documentation receipts shall be submitted as a component of the EE/CA Report.

Task 9 – Prepare Institutional Analysis, Impact Analysis, and EE/CA Report

Task 9A – Institutional Analysis. Under this subtask, an Institutional Analysis report will be prepared to present site conditions in relation to ownership, zoning, future development plans and Local and State participation in planning activities. Much of the data collected during the TPP process will be incorporated. A draft report will be submitted to USAESCH and CENAN for review and the final report will be included as an Appendix to EE/CA Report.

Task 9B – Impact Analysis. Under this subtask, a Qualitative Impact Analysis (QIA) model will be furnished by USAESCH and will be refined by Parsons. This model will determine the baseline public exposure and the predicted risk reduction for proposed remediation areas. The refinements will be provided to CENAN and USAESCH for

approval before implementation.

A Site UXO Statistical Report will also be prepared documenting the determination of the UXO density estimates. This report will be included as part of the risk report and included in the EE/CA Report Submittal.

Task 9C – EE/CA Report. Under this subtask, an EE/CA Report will be prepared to document the fieldwork and subsequent evaluations and recommendations. The EE/CA Report will be prepared in accordance with the SOW and DID OE-010. The report will include:

- **Executive Summary** that details project objectives and historical attributes, site characterization effort, results and conclusions and recommended remedial action and estimated cost.
- **Site Characterization**, including site description, background, and previous removal actions. The EE/CA investigation effort will be described in detail including sample transect establishment, geophysical investigation, and intrusive investigation.
- **Identification of Removal Action Objectives** for the AOIs based on the results of the QIA model.
- **Identification and Analysis of Removal Action Alternatives** for the former Camp, including a “no DoD action indicated” and a general institutional controls alternative, to reduce the risk to public safety and the human environment.
- **Comparative Analysis of Removal Action Alternatives** for each AOI. Alternative development and evaluation for each AOI will be based on effectiveness, implementability and cost.
- **Recommended Removal Action Alternative** selection. A preferred remedial alternative will be selected for each AOI based on a detailed evaluation of effectiveness, implementability, and cost.

An estimated OE density for each risk AOI will be evaluated that takes into consideration the hazard factor for the type of OE found at the former Camp. All data acquired will be used to develop risk estimates for the site investigation areas and associated removal alternatives. Alternatives to be considered will include but not be limited to some or a combination of the following:

- No DoD Action Indicated;
- Direct intervention institutional controls (access control, land use restrictions, regulatory control, and other passive measures);
- Behavior modification institutional controls (notification of real estate defect, notices, training clinics, pamphlets, etc.);

- Surface removal;
- Subsurface removal action to a depth of interest;
- Combination of the above.

The estimate of cost associated with the implementation of the recommended response action(s) will include the direct and indirect cost for implementation of the response action(s). An important factor in the cost estimation effort is the time frame for completion of the response action. The basis for the cost estimate will include:

- Construction cost data bases;
- Cost from recent projects;
- Cost from contractors and suppliers; and
- Allowances for contingencies and professional services (surveying, geotechnical evaluations, geophysical surveys, engineering, legal and administrative costs, etc.)

The draft and draft-final EE/CA Report will be submitted to USAESCH and CENAN for review. The maximum number of copies submitted will be per SOW (6 each to USAESCH, 6 each to CENAN) but may be reduced as a result of electronic posting to the project website to be established at www.projecthost.com as directed by the USAESCH PM. Comments will be incorporated into the final EE/CA Report to be submitted to the Contracting Officer.

Task 10 – Prepare Action Memorandum

Upon approval of the Final EE/CA Report, an Action Memorandum will be prepared and submitted to USAESCH for review. Comments will be addresses and the final Action Memorandum will be prepared in accordance with USAESCH procedures.

Task 11 – Community Relations Support

Parsons will provide community relations support in the form of attendance to public meetings conducted by USAESCH concerning the former Camp. Parsons will prepare briefings, graphics, and presentations at the request of the USAESCH PM. Approximately three (3) public meetings will be attended by the project PM and one other Parsons's representative thoroughly familiar with the project. Minutes for all meetings will be prepared by Parsons and submitted to USAESCH.

Task 12 - Meetings and Project Management

Meetings between DoD, regulatory and civilian agencies will be conducted as needed to coordinate site activities and discuss/assess results. In addition to the meetings under Task 11, four (4) meetings will be attended at CENAN and two (2) status meetings in Huntsville. Internal project meetings will also be held by the Parsons's project team to coordinate project activities.

A variety of activities are required, during the life of the task order to manage the task order in accordance with the SOW. All project management associated with this task order, with the exception of direct technical oversight of work described in the preceding tasks, will be accounted for in this task. This task will be conducted continuously throughout the life of this project.

Task 13 – Project Documentation

Parsons will scan all project documentation onto CDs and submit to USAESCH on a quarterly basis. The documentation will include, but is not limited to all project correspondences (formal and email), contracts, modifications, and deliverables.

SECTION 3: RESPONSIBILITY

USA has been subcontracted to perform UXO-related activities. Related activities for which USA is responsible are as follows:

USA is responsible for:

- ◆ Conducting UXO surface clearance of the grids/meandering paths and access routes;
- ◆ Conducting intrusive operations; and
- ◆ Coordinating UXO operations including handling, detonating, and disposing of UXO.

SECTION 4: CONTRACTS

The USAESCH contract number is DACA87-00-D-0038. The contract specifies that monthly progress reports along with associated invoices are due to USAECH by the 10th of each month. This project has been designated as Parsons job number **739306**. The Parsons work breakdown structure (WBS), including where to put common charges, is presented below:

WBS	Description	Acceptable Charges
01000	Project Planning, Site Visit & Records Review	
01100	Site Visit & Records Review	PM,SM,GC, ODCs
01200	Work Task Proposal	PM,SM, ODCs
02000	Geophysical Test Plot	GIS, PM, GC, ODCs
03000	Technical Project Planning	All, ODCs
04000	EE/CA Work Plan	All, ODCs
05000	Location Surveys and Mapping	USA, GIS, PM, SM
06000	Establishment & Manage of GIS & Home Page	GIS, PM, GC, TD
07000	Site Characterization	
07100	Surface Preparation, OE ID and Removal	USA, PM, SM, PE
07200	Geophysical Equipment Test	GC, GIS, PM, SM, PE
07300	Investigation	All
08000	Intrusive Investigation (OE Sampling)	All
09000	Prepare Institutional Analysis, Impact Analysis, and EE/CA Report	

09100	Institutional Analysis	All
09200	Impact Analysis	All
09300	Prepare EE/CA Report	All
10000	Prepare Action Memorandum	PM, PE, TD, ODCs
11000	Community Relations Support	All
12000	Meetings & PM	PM, PE, Admin, ODCs
13000	Project Documentation	PM, PE, Admin, ODCs

The specifics of this contract, including penalties, incentives, special terms, conditions are included in Parsons' Program Management Plan for USAESCH.

SECTION 5: PROJECT DELIVERABLES

Parsons will submit all deliverables to USAECH and other reviewers in accordance with the SOW. Deliverables will receive internal Parsons reviews prior to submittal to other organizations. The following deliverables are required under the SOW:

Major Parsons deliverable dates are described in Table 5.1.

Table 5.1 Major Deliverables and Milestones

Item	Internal Due Date (Due to Atlanta)	External Due Date	Lead Coordinator
Prepare Geophysical Test Plot	N/A	TBD	Andy Schwartz (GC)
Phase I & II Worksheets	TBD	TBD	Don Silkebakken (PM)
Phase III Summary Table(s)	TBD	TBD	Don Silkebakken (PM)
Phase IV Data Collection Program	TBD	TBD	Don Silkebakken (PM)/ Greg Hedrick (SM)
Draft of Work Plan	TBD	TBD	Don Silkebakken (PM) Greg Hedrick (SM)
Draft Final of Work Plan	TBD	TBD	Don Silkebakken (PM)/ Greg Hedrick (SM)
Final Work Plan	TBD	TBD	Don Silkebakken (PM)/ Greg Hedrick (SM)
Draft of EE/CA Report	TBD	TBD	Don Silkebakken (PM)/ Greg Hedrick (SM)
Draft EE/CA Report	TBD	TBD	Don Silkebakken (PM)/ Greg Hedrick (SM)
Draft-Final EE/CA Report	TBD	TBD	Don Silkebakken (PM)/ Greg Hedrick (SM)
Final EE/CA Report	TBD	TBD	Don Silkebakken (PM)/ Greg Hedrick (SM)
EE/CA Action Memorandum	TBD	TBD	Don Silkebakken (PM)
Explosives Safety Submission	TBD	TBD	Don Silkebakken (PM)
Field Reports	N/A	Weekly	Don Silkebakken (PM)
Status Reports	N/A	Monthly	Don Silkebakken (PM)

Telephone Conversation Reports	N/A	Monthly	Don Silkebakken (PM)
Task Order Completion	N/A	TBD	Don Silkebakken (PM)

The following addresses shall be used in mailing submittals:

Table 5.2 Deliverable Distribution Addresses

ADDRESSEE	QUANTITY* Draft/Final
Commander US Army Engineering and Support Center, Huntsville ATTN: CEHNC-PM-OT (Roland Belew) P.O. Box 1600 Huntsville, AL 35807-4301	6/6
Commander US Army Engineer District, New York District ATTN: CENAN-PP-E (Luz Spann-LaBato) State Highway 18, Turnpike Metroplex Building, Suite 205 East Brunswick, NJ 08816	6/6

**Submittals will also be posted electronically on the Internet at www.projecthost.com/.*

SECTION 6: SCHEDULE

The current schedule for activities is presented as Attachment A. Major deliverables and milestones were summarized in Table 5.1.

SECTION 7: BUDGETS

The budget for the project is \$495,094. Percent completes will be tracked by each task, based on monthly input from the PM.

SECTION 8: PROJECT CONTROLS AND REPORTING

Cost reports will be generated through standard Parsons Prism reporting mechanisms. The PM is responsible for reviewing these reports and preparing the monthly updates and the monthly invoice to USAESCH.

All timesheet corrections must be submitted the immediate week thereafter. All project team members are responsible for notifying the PM weekly of any expenses incurred in excess of \$100 that will not be reflected in Prism within one week of being incurred.

Property Accountability

The Parsons office will utilize property owned by the U.S. Army, Parsons, or USA. Periodic physical inventories will be conducted to verify the status of equipment. No property will be removed from the project site without prior clearance from the Parsons

or USA PM. Upon completion of the project, Government-furnished equipment will be returned to the Government, unless otherwise directed by the Contracting Officer.

SECTION 9: KEY PERSONNEL AND PROJECT TEAM AND CLIENT ORGANIZATION

Several organizations are directly involved in the former Camp Hero EE/CA project. The technical team consists of the CENAN, USAESCH, Parsons, and USA. The roles of these team members are described below.

U.S. Army Engineer District, New York

USACE, New York District (CENAN) is the life cycle PM and funding agency for this project. CENAN's responsibilities include review of project plans and documents, working with the news media and the public, and coordinating with State and local regulatory agencies on issues pertaining to protection of ecological and cultural resources.

U.S. Army Engineering and Support Center, Huntsville

USAESCH is the lead technical agency for this project. USAESCH responsibilities include procurement of architect /engineer services, direction of the EE/CA contractor, review and coordination of project plans and documents, and working with the news media and the public. USAESCH also provides technical expertise for OE activities. As the technical project manager, USAESCH is responsible for directing the EE/CA contractor and controlling the budget and schedule.

Parsons, Inc.

Parsons is the prime contractor to USAESCH and will provide overall engineering support and services for the EE/CA. Parsons is responsible for performance of the activities detailed in the SOW. Parsons is also responsible for schedule and budget control. Parsons will provide overall engineering support and services for this project. Parsons will provide personnel to perform the geophysical survey of the meandering path and evaluate the data. Parsons will also provide the GIS services including incorporation of geophysical investigation data and intrusive investigation data. Parsons will also conduct risk assessment modeling using Impact Analysis as outlined in the SOW. USAESCH's Contracting Officer directs all work to be performed by Parsons and its subcontractors.

Subcontractors

Subcontractors will adhere to all applicable safety and health and QC requirements. The project SSHP specifies individual requirements for OE/UXO safety and health referenced in the SOW and other USAESCH health and safety requirements.

During the field investigation, subcontractors assigned to field activities will be required to submit weekly status reports that include information as it pertains to the field investigation tasks.

USA Environmental, Inc.

USA is a subcontractor to Parsons. As such, USA will provide all UXO services needed to conduct the field investigation. Services provided by USA will include escort and visual OE clearance of grids/meandering paths for geophysical investigation and access routes identified by Parsons and performance of intrusive investigations of anomalies identified and reacquired by Parsons. USA will be responsible for all UXO operations, including handling, detonating, and disposing of OE. USA will provide properly trained and qualified personnel for all UXO operations.

Project Personnel

Personnel performing work in support of the EE/CA will meet the qualifications required by ER-385-1-92. Resumes of key personnel scheduled to perform work on this project will be presented in the WP. Figure 9.1 presents the project organizational structure and Table 9.1 lists key technical contacts.

**FIGURE 9.1
ORGANIZATIONAL STRUCTURE FOR
FORMER CAMP HERO EE/CA**

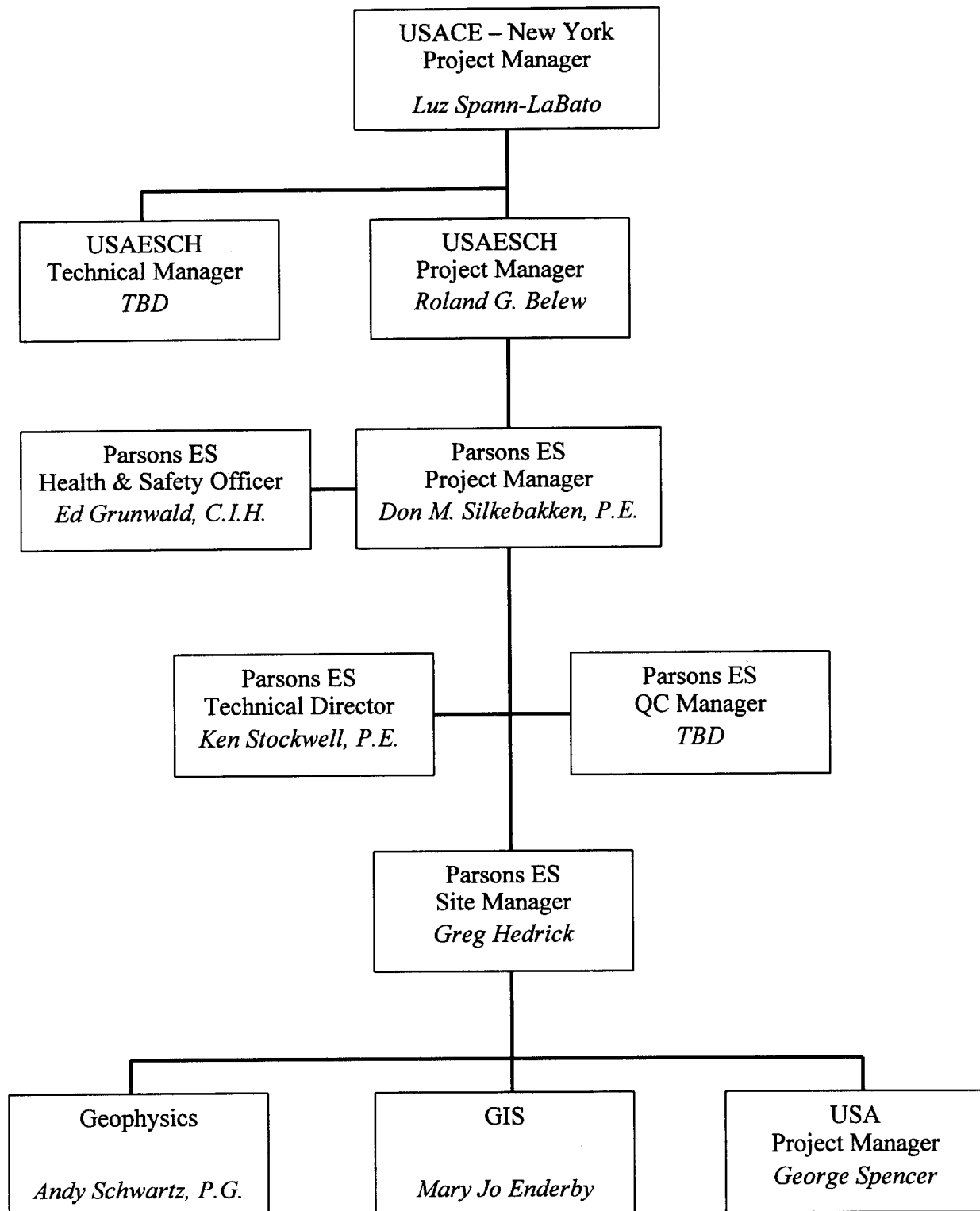


TABLE 9.1
KEY TECHNICAL CONTACTS FOR
FORMER CAMP HERO EE/CA

Organization	Name	Telephone/e-mail
US Army Engineering Center, Huntsville PO Box 1600 4820 University Square Huntsville, AL 35807-4301	Mr. Roland Belew. Project Manager	(256) 895-1553 (voice) (256) 895-1378 (fax) <u>Roland.G.Belew@hnd01.usace.army.mil</u>
US Army Engineering Center, Huntsville PO Box 1600 4820 University Square Huntsville, AL 35816-1822	TBD Technical Manager	(256) 895-xxxx (voice) (256) 895-1378 (fax)
USACE, New York District ATTN: CENAN-PP-E State Highway 18, Turnpike Metroplex Building, Suite 205 East Brunswick, NJ 08816	Luz Spann-LaBato District Project Manager	732-435-0079 (voice) 732-249-0734 (fax) <u>Luz.O.Spann-LaBato@nan02.usace.army.mil</u>
Parsons Engineering Science 5390 Triangle Parkway Suite 100 Norcross, GA 30092	Mr. Don Silkebakken, P.E. Project Manager	(678) 969-2384 (voice) (770) 446-4910 (fax) don.silkebakken@parsons.com
Parsons Engineering Science 5390 Triangle Parkway Suite 100 Norcross, GA 30092	Mr. Greg Hedrick Site Manager	(678) 969-2397 (voice) (770) 446-4910 (fax) greg.hedrick@parsons.com
Parsons Engineering Science 5390 Triangle Parkway Suite 100 Norcross, GA 30092	Mr. Ken Stockwell, P.E. Program Manager	(678)-969-2351 (voice) (770)-446-4910 (fax) ken.stockwell@parsons.com
Parsons Engineering Science 5390 Triangle Parkway Suite 100 Norcross, GA 30092	Mr. Andy Schwartz Geophysical Coordinator	(678)-969-2424 (voice) (770)-446-4910 (fax) andrew.schwartz@parsons.com
Parsons Engineering Science 5390 Triangle Parkway Suite 100 Norcross, GA 30092	Ms. Mary Jo Enderby, Project GIS Manager	(678)-969-2441 (voice) (770)-446-4910 (fax) mary.jo.black@parsons.com
USA Environmental, Inc. 5802 Benjamin Center Drive, Suite 101 Tampa, Florida 33634	Mr. George Spencer Project Manager	(813)-884-5722, Ext 152 (voice) (813)-884-1876 (fax) usaoperations@msn.com

Project Manager

The Parsons Project Manager (PM) is responsible for communicating with USAESCH all aspects of the project including overseeing the overall performance of all individuals on the project team, coordinating all contract and subcontract work, and resolving problems. The PM is also responsible for controlling the contractual cost and schedule targets. The PM will coordinate the implementation of former Camp characterization activities, GIS activities and data management effort, and coordinate the preparation of the EE/CA report.

The PM will interface directly with subcontractors to keep the subcontractors advised of scope of work, schedule, and budget. The PM is also responsible for ensuring that the subcontractor cost is within budget and schedule commitments are achieved.

Site Manager

The Parsons Site Manager (SM) will manage all field investigation activities under the direction of the Parsons PM. Specific responsibilities include scheduling daily safety meetings, scheduling and coordinating field team activities, and submitting a Daily Activities Report to the Parsons PM. The SM will be responsible for direct oversight of subcontractor activities during the field investigation and will review the subcontractors' weekly status reports. The SM will coordinate with the PM as necessary to take corrective actions to assure that budgets and schedules are enforced during the field investigation. Site Manager duties will also include enforcing compliance with the SSHP and general daily field operating procedures. The SM will report all QC failures and corrective actions to the PM and QC Manager.

QC Manager

The QC Manager is independent of the project team and is responsible for reviewing all QC procedures to be used in the project, reviewing subcontractor system audits and QC procedures to ensure compliance with the project QC guidelines in the WP, performing a quality review to ensure the quality of deliverables from the project team to USAESCH, and interaction and communication with subcontractor and USAESCH QC personnel.

UXO Contractor Personnel

UXO personnel (provided directly by Parsons or through USA) required for this project will include a EOD-qualified Senior UXO Supervisor and UXO technicians of various degrees, all of whom meet the specific requirements outlined in DID OE-025. Non-UXO qualified personnel will not perform any handling of OE/UXO at any time or under any conditions. Any additional personnel who may be assigned to the project field team will meet the qualifications required in the SOW. The following paragraphs describe the specific responsibilities of OE contractor personnel assigned to the project team.

UXO Subcontractor Project Manager

The UXO Subcontractor PM is responsible for communication with and execution of all instructions received from the Parsons PM, managing all OE subcontract requirements of the project, overseeing the performance of all individuals on the OE project team, coordinating contract work, and overseeing OE-specific task identification and resolutions. The UXO Subcontractor PM is also responsible for achieving the subcontract cost and schedule requirements. The UXO Subcontractor PM will coordinate the preparation of detailed work order specifications and schedules as required by the Parsons PM. The UXO Subcontractor PM will also schedule field efforts, identify the UXO technical and site personnel to accomplish the specific tasks as defined in the WP, implement project quality and safety procedures, and direct UXO personnel to achieve successful and timely completion of the WP tasks. The UXO Subcontractor PM will promptly implement approved and authorized changes to ongoing work orders, as necessary.

Senior UXO Supervisor

The Senior UXO Supervisor (SUXOS) is USA's most senior OE-qualified on-site representative. The SUXOS will monitor all aspects of the field project, including subcontractor site activities, to ensure efficient performance of the approved WP and SSHP. The SUXOS has the authority to temporarily stop work to correct safety deficiencies. The SUXOS makes Daily Progress Reports to the USA PM and Parsons SM and is also responsible for monitoring on-site project expenditures, finances, and equipment use and maintenance. Internally, the SUXOS reports directly to the UXO PM. The SUXOS meets the USACE requirements as a graduate of one of the following schools: the U.S. Naval Explosive Ordnance Disposal School (Indian Head, MD) or U.S. Army Bomb Disposal School (Aberdeen Proving Ground, MD). Additional requirements include 40-hour Hazardous Waste Site Worker (if required); Supervisor courses in accordance with 29 CFR 1910.120; and has at least 15 years of UXO experience, which may be a combination of active duty military EOD and contractor UXO experience, and shall include 10 years of supervisory positions. The SUXOS meets the USACE requirements as a The SUXOS is directly responsible for:

- Project site work;
- Coordination with subcontractor activities/work on-site;
- Compliance with all safety and work related standard operating procedures (SOPs), including the SSHP;
- Meeting schedule time lines and budgetary control amounts;
- Compliance with all federal and state regulations;
- Coordination with the Safety Officer (UXOSO) to ensure all site safety considerations are enforced; and
- Equipment and on-site vehicles.

UXO Safety Officer

The UXO Safety Officer (UXOSO) is a Parsons employee and reports to the Parsons PM. The UXOSO meets the same requirements as the UXO Technician III and is responsible for the following:

- Coordinating and observing site operations;
- Enforcing the project SSHP (a copy will be provided in the office trailer);
- Explosive safety;
- Fire prevention;
- Industrial safety;
- Conducting daily safety audits and assuring equipment calibrations are accomplished in accordance with factory specifications;
- Environmental safety;
- Chemical material surety and safety;
- USA and Parsons Site Employee Medical Monitoring Program;
- Daily safety briefings;
- Visitor access and entry control to the project site;
- Coordinating with local emergency response agencies;
- Complying with Code of Federal Regulations (CFR), the Occupational Safety and Health Administration (OSHA), and USACE safety protocols;
- Complying with specific state and local ordinances, as required;
- Daily inspection of emergency equipment;
- Maintaining the site emergency vehicle and supplies; and
- Monitoring activities, reports, and document deviations from established procedures.

UXO Technician III

The UXO Technician III takes daily direction from and reports directly to the SUXOS. The UXO Technician III directs the action of an OE team in accordance with the approved WP and the daily verbal direction of the SUXOS. The UXO Technician III maintains continuous communication with the SUXOS during the performance of OE operations and has the authority to temporarily stop the performance of work to resolve and correct any unsafe condition. The UXO Technician III is a graduate of one of the following schools: the U.S. Naval Explosive Ordnance Disposal School (Indian Head, MD) or U.S. Army Bomb Disposal School (Aberdeen Proving Ground, MD). Additional requirements include 40-hour and 8-hour Hazardous Waste Site Worker; Supervisor courses in accordance with 29 CFR 1910.120; and has at least 10 years of experience, which may be a combination of active duty military EOD and contractor UXO experience. Duties/responsibilities include:

- Supervision of the direct OE field operations for assigned tasks;

- Task/team compliance with all safety and work related SOPs, including SSHP;
- Meeting schedules on task/team time lines and budgetary control amounts;
- Coordination with the UXOSO to ensure that all site safety considerations are enforced;
- Task/team assigned equipment and vehicles; and
- Supervision of assigned personnel.

UXO Quality Control Specialist

Parson's UXO Quality Control Specialist (UXOQCS) monitors a project's performance in accordance with safety protocols and technical compliance. The UXOQCS is responsible for the oversight and implementation of the QC Program. The UXOQCS coordinates with Parsons PM and assists him during the development of work/safety plans, site remediation, and reporting. The UXOQCS provides guidance, as required, and performs scheduled reviews of documentation (QC reports, field progress reports, and technical findings). The UXOQCS ultimately reports directly to Parsons PM. The UXOQCS shall have the same minimum prerequisite experience requirements as the UXO Technician III.

Management of Field Operations

Parsons will use an RV type mobile trailer as the project field office trailer within the former Camp for use by the Parsons field representatives and the USA SUXOS. Parsons will also designate an area near the field trailer for USA to establish a test grid for daily geophysical equipment testing. This area will likely be the same area used for the geophysical prove-out

Parsons will conform to job site security requirements and other regulations. CENAN will initially notify all stakeholders of the field investigation. Parsons will then coordinate field operations with the stakeholders to limit the disruption of their activities.

Office Hours/Holidays

The field staff will work a maximum of 40 hours per week on OE-related activities because of the risk associated with OE operations. If daylight hours permit, the workweek will consist of four 10-hour days per week (Monday-Thursday), except Parsons - and USA-observed holidays. If daylight hours are insufficient to support 10-hour workdays, the work week will consist of five 8-hour days (Monday-Friday). Parsons and USA will schedule personnel to provide adequate coverage of their operations. Work may occasionally be scheduled other than at these times due to factors such as adverse weather conditions.

SECTION 10: COMMUNICATIONS

The Parsons PM (Don Silkebakken) is responsible for coordinating the flow of information from Parsons to/from USAESCH, CENAN, and USA. The Program Manager (Ken Stockwell) will also have direct contact with the client, to check on progress and client satisfaction. With the exception of the Program Managers activities,

all correspondence to the client shall originate through the PM in Atlanta, unless established otherwise by the PM for specific memos/issues.

Signature authority on Parsons contracts to Huntsville COE is by Ken Stockwell or Robert Smith, depending on the value. Signature authority on all other correspondence is by the Parsons PM (Don Silkebakken).

Documentation – standard Parsons memo format or e-mails shall be used for all correspondence. All parties copied shall be noted, either by attaching a completed distribution list or by listing all parties under the cc: items.

Document Distribution - Refer to Section 8 for distribution requirements for external correspondence. All project-related internal correspondence (including e-mails) shall be copied to the project manager for filing.

Memos shall be identified by their date and topic so that they are easily found by scanning word/excel, as follows:

ALL FILES, CALC SHEETS, MEMOS, ETC. SHALL BE IDENTIFIED BY A CORRECT FOOTER. The footers shall be set-up to automatically reference the file name, so that if the file is pulled up and re-used for another memo, the footer will reflect the new file name. Revisions shall be marked by adding additional dates to the date block.

ALL FILES SHALL BE STORED UNDER I:\HUNT-CONUS UNDER THE JOB NAME, AND NOT ON C: DRIVES OR DISKETTE. Files generated in other offices shall be forwarded electronically to Atlanta when the package is submitted to Atlanta for forwarding to the client. Copies (or originals) of from other offices shall be forwarded to Atlanta for filing with the project at the end of the project.

All aspects of importance to the administration of the contract must be substantiated by permanent records, such as written correspondence, notes, and photographs. It is essential to summarize important non-written communications with notes covering conferences, telephone calls, and discussions, giving the date, location, parties involved, and important aspects discussed. Written correspondence is the most deliberate, as well as the most important, of the three general types of contractual communication (i.e., person to person, telephone calls, and written correspondence). All incoming correspondence from USACE that requires a reply must be responded to within 5 working days in one of the following ways:

- Reply in full;
- Interim reply (stating date by which full answer can be expected); or
- Acknowledgment of receipt.

Office Project Communications and Reporting

The Parsons PM is responsible for issuing the following documents throughout the project:

1. Meeting Minutes (due 10 calendar days after a meeting);
2. Record of Telephone Conversations (due with the monthly progress report);
3. Project Control and Reporting (submitted with this document); and
4. Monthly Progress Reports (due by the 10th day of the following month).

A monthly progress report will be issued pursuant to the terms of the contract. The monthly progress report will include a summary of the work performed during the reporting period as well as the work that is planned to be performed in the upcoming period. The report will summarize the results of meetings and telephone conversations that occurred during the reporting period. An earned value analysis of current and cumulative expenditures with respect to the baseline schedule and labor plan will be performed. Variance analysis will be included in the report as necessary.

Field Project Communications and Reporting

The following communications will be documented in a chronological communications log maintained by the Parsons SM and the USA SUXOS:

- Each and every occasion that OE/UXO is encountered;
- When work is stopped for safety reasons;
- Health and safety violations; and
- Personnel changes and reason for changes.

Public Relations Support

Luz Spann-LaBato, CENAN Project Manager, will be the overall coordinator for public affairs on this project. The following protocol will be followed during execution of this WP:

- All communications and contacts with the public will be under the direction of Luz Spann-LaBato.
- All public information contacts made during the project will be documented and forwarded immediately to Luz Spann-LaBato.
- Parsons will support, attend and participate in public meetings as directed by USAESCH. The support will include preparation and delivery of briefings, graphics, and presentations, and participation in site visits.

SECTION 11: MEETINGS

Internal Meetings:

Internal project team meetings will be held in Atlanta or via teleconference on a weekly basis.

External Meetings

The client does not have an established team meeting schedule, and prefers to schedule meetings “as the need arises.”

SECTION 12: TEAM BUILDING

The weekly meetings will be used as a spring-board for team building, including going to lunch, or similar activities to build team spirit.

SECTION 13: FILING SYSTEM

Documents will be filed through Atlanta's central filing system. The documents will be filed according to the Task Order number 0002.

SECTION 14: APPROVALS

A matrix for document approval and distribution is enclosed as Table 14.1.

Table 14.1 Document Approval Matrix

Item	Parsons - approve	Parsons - cc/FYI:
Change Orders, Invoices	Don Silkebakken	Ken Stockwell
Progress Reports	Don Silkebakken	Ken Stockwell
Contracts w/ Subs	Don Silkebakken	Ken Stockwell
Transmittals	Don Silkebakken	Ken Stockwell
Letters to Client/Subs – Technical	Don Silkebakken	Ken Stockwell
Letters to Client/Subs – Cost/Schedule	Don Silkebakken	Ken Stockwell

SECTION 15: STANDARDS AND PROCEDURES

All text shall be written in Microsoft Word Version 97, using templates from Atlanta. Figures will be created utilizing GIS format and existing figures obtained from previous consultants.

SECTION 16: PROJECT DOCUMENTS

The EE/CA report will be signed and sealed by a registered Professional Engineer. The report will also be completed in compliance with applicable CERCLA and NCP guidelines.

SECTION 17: QUALITY CONTROL

The TD (Ken Stockwell) is responsible for ensuring that the EE/CA is appropriately reviewed and stamped and sealed by a properly registered Professional Engineer. After review by the TD, the EE/CA shall be forwarded to the PM for overall review of the complete report format and content.

All submittals will be issued to the client from Atlanta, after PM and TD review. To allow sufficient time for PM review and response to any concerns, an internal due date will be established. The internal due date is a firm date, and is based on allowing sufficient time to address concerns and questions prior to issuance to the client.

SECTION 18: TRAVEL AND LIVING EXPENSES

Based on client activities and schedule, team members such as the PM (Don Silkebakken), SM (Greg Hedrick), GC (Andy Schwartz), and TD (Ken Stockwell) may be requested to attend project review meetings, public meetings, or site meetings.

Air travel estimates are based on current rate information using standard coach fare. The travel budget is based on traveling from Atlanta using Delta flights to New York-LaGuardia (\$767/trip). The Parsons field team members are budgeted for 1 roundtrip traveling from Atlanta using Delta flights to New York, New York (\$767/trip) per two-week period. Weekly travel is permitted provided the combined fares are within the budgeted amount. For hotel accommodations several hotels near the former Camp offer daily rates within the CONUS maximum rate of \$168.75/night (tax included) for the area.

Car rental rates were quoted by Hertz for pickup at either LaGuardia or JFK in New York. The rental rates were formulated on the following methodology:

Daily rental 4x4 (From JFK or LGA).....	\$77.99/day
Sales tax + Airport tax & Fees.....	10.34/day
Total Weekly Cost.....	\$88.33/day
Weekly rental 4x4 (From JFK or LGA)	\$419.99/week
Sales tax + Airport tax & Fees.....	49.99/week
Total Weekly Cost.....	\$469.98/week
Daily rental standard car (From JFK or LGA)	\$62.00/day
Sales tax + Airport tax & Fees.....	8.22/day
Total.....	\$70.22/day
Weekly rental standard car (From JFK or LGA).....	\$372.00/week
Sales tax + Airport tax & Fees.....	49.29/week
Total.....	\$421.29/week

Mobile office rental (RV) is proposed for this project due to the short field duration. Three vendors were contacted for prices and the rental cost is detailed below and includes associated mileage charges.

Weekly rental.....	\$1000.00/week
Sales tax (@13.25%)	\$132.50/week
Total.....	\$1132.50/week

In addition to the rental rates shown above, tolls and parking costs may be incurred. These were estimated at \$10 per week per vehicle.

The current proposed rate for personal automobile use is \$0.345 per mile. In addition to the rental rate shown above, tolls and parking costs may be incurred. These were estimated at cost.

Trips to Huntsville, AL for project reviews will be addressed when requested by the COE project manager.

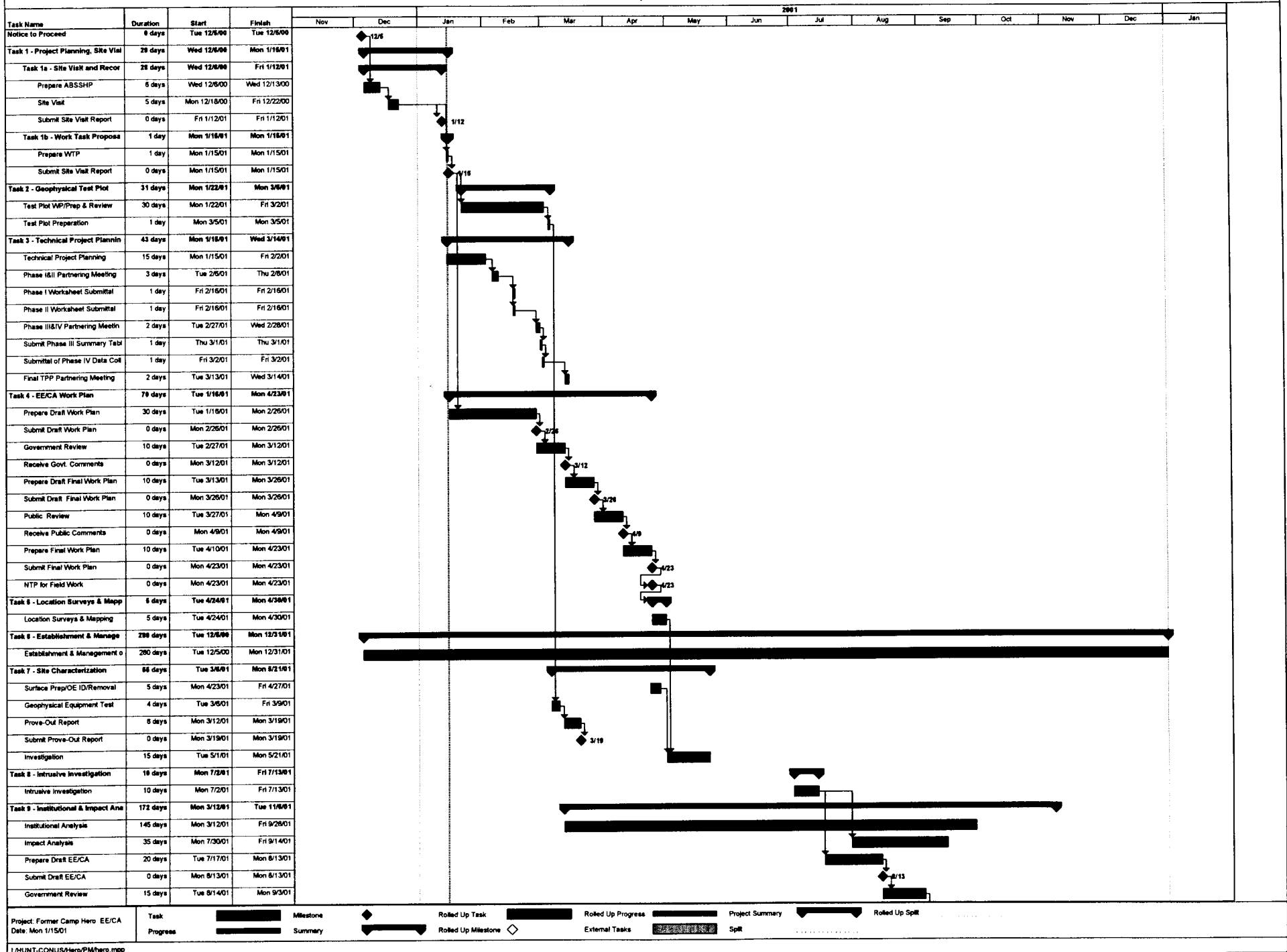
Per diem rates are the Prescribed Maximum Per Diem Rates for CONUS effective January 1, 2000, for the following cities:

Huntsville, AL	\$108.00
Atlanta, GA.....	\$131.00
Suffolk County, NY	\$187.00

SECTION 19: STANDARD FORMS AND DOCUMENTS

Standard Parsons timesheets will be used. Meeting minutes, phone memos, and trip reports shall be documented via memo format and/or e-mail. Letters will generally be used only for contracting documentation where full signatures are required.

ALL CORRESPONDENCE (INTERNAL AND EXTERNAL) MUST BE COPIED TO THE PM IN ATLANTA, TO ENSURE COMPLETE PROJECT FILE DOCUMENTATION.



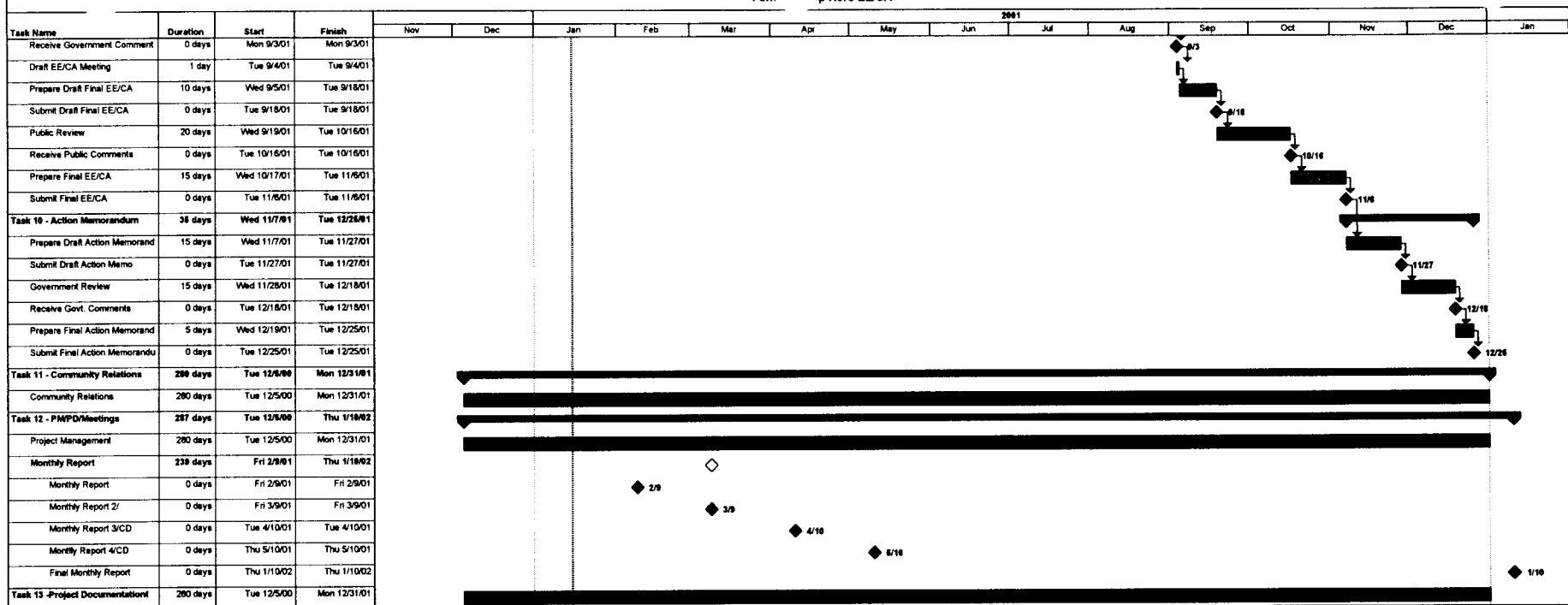
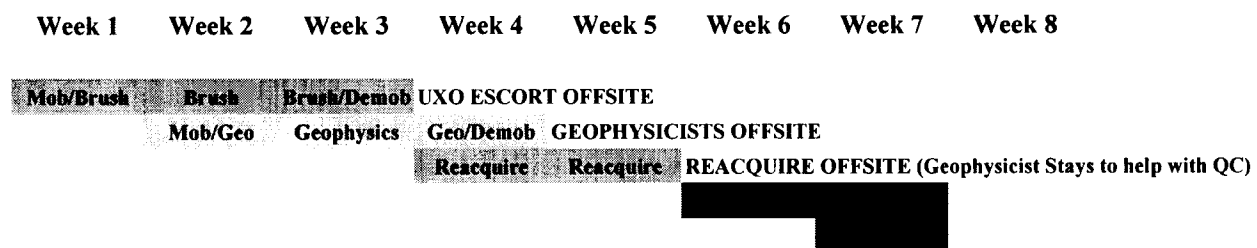


Figure 1: Former Camp Hero EE/CA Field Schedule



ATTACHMENT B
PROJECT ASSUMPTIONS

**ASSUMPTIONS COST PROPOSAL
TASK ORDER TO
CONTRACT NO. DACA87-00-D-0038,
ENGINEERING EVALUATION/COST ANALYSIS (EE/CA) AT
FORMER CAMP HERO
MONTAUK, NEW YORK**

The following assumptions were used in the preparation of this cost proposal:

General

- Per phone conversation from USAESCH PM (Mr. Roland Belew) and Debbie Edwards, the vegetation in the area is extremely thick scrub oak. The State Park representative does not want to clear cut the area and ruin the natural state. As such meandering path is preferred but will require mechanized clearing of traverses. Forestation is young hardwood and should accommodate GPS lock in fall and winter months while the leaves are down. If grids are deemed necessary, the State prefers cutting minimal access paths from primary trails to less visible areas to establish grids. The State is not receptive to conducting a 100% clearance of the 52.91 acres during the EE/CA phase. **For cost estimating purposes, Parsons assumes a maximum of 12.5 acres will be geophysically surveyed based on a review of UXO Calculator output for the site.**
- Per 10/18/00 Email, USAESCH PM anticipates a combination Site Visit and dual project meetings (not public meetings) on this project and the Cold Springs EE/CA project in West Point, New York. As such, the level of effort for these meetings was divided equally among the two proposals.
- Parsons assumes an RV type mobile trailer will be used as the project field office due to the short field duration. This mobile office will accommodate the Site Manager, UXO SUXOS, QC/Safety, and USAESCH field representative (if assigned). An equipment storage locker will also be provided.
- No onsite explosive magazines will be placed at the site. The UXO Subcontractor has arranged "on-call" delivery as necessary.
- The work week will consist of four 10-hour days not to exceed 40 hours per work week (Monday-Sunday). Workdays may be extended over the weekend (Saturday and Sunday) if significant rain delay occurs during the weekdays
- Parsons will provide temporary toilet facilities for all personnel on site.

- The value of the scrap is assumed to pay for disposal costs
- Ordnance scrap and recovered metal debris may temporarily remain on site during the course of the project at a location designated by the property owner and approved by USAESCH. This location will be easily accessible by vehicle.
- No permits are required for performance of this work per the SOW.
- The government will provide Parsons with copies of all relevant reports, data, maps, photos, and other information in their possession and which is readily attainable and relevant to the project. Such information will be provided in electronic format, if available.

TASK 1 PROJECT PLANNING, SITE VISIT 7 RECORDS REVIEW

Task 1a Site Visit & Records Review

- The Project Manager, proposed Site Manager, and UXO Safety will attend the Site Visit.
- A Schonstedt will be provided during the Site Visit.
- Parsons assumes a Site Visit of two full days onsite with 1 combined day of travel and field coordination. Per USAESCH PM, the Site Visit for the former Cold Springs Site in West Point, New York will be conducted during the same week, therefore a cost savings for airfare and other associated costs will be achieved. The travel costs will be divided equally among the two proposals. If the Site Visits are not conducted during the same week, additional funds will be required.
- An Abbreviated Site Safety and Health Plan will be prepared and approved prior to mobilization to the field.
- A Site Visit Report will be prepared following completion of the Site Visit and submitted to USAESCH

Task 1b Work Task Proposal

Parsons will prepare a WTP per USAESCH guidance.

TASK 2 GEOPHYSICAL INVESTIGATION TEST PLOT AND PROVE-OUT

Parsons will provide a qualified UXO Safety Officer and a Geophysicist (one day) to assist with the construction of a test plot which will be used to test various geophysical methods and equipment. Parsons will provide all required materials. The specific location of the test plot will be selected in coordination with USAESCH. All other aspect of testing, evaluating, and reporting of the geophysical equipment test is included in Task 7b.

TASK 3 TECHNICAL PROJECT PLANNING

- Technical project planning (TPP) will be conducted in accordance with Engineer

Manual 200-1-2 (August 31, 1998). The overall goal of TPP is to ensure data quality objectives of all interested parties are met.

- Technical project planning will be accomplished in four phases: I) Identify the current project; II) Determine data needs; III) Develop data collection options; IV) Finalize data collection program.
- The following tasks will be completed during Phase I:
 - Decision-makers and the TPP team and their roles will be identified. Decision-makers will include representatives from the USACE, regulatory agencies, State of New York, and representatives of other appropriate federal, state, and local agencies. It is anticipated that coordination with several agencies will be necessary to identify appropriate individuals and to identify legal and regulatory constraints. Private landowners in the area will be identified through coordination with local agencies.
 - Project goals and objectives will also be identified during Phase I. Future land use by government agencies as well as adjacent private landowners will be considered. This will be accomplished through discussions with federal, state, and local agencies, either in-person or over the phone. Project objectives must also be discussed with adjacent private landowners. This would best be accomplished at a public meeting. Therefore, **a one-day public meeting** will take place prior to preparation of the Technical Planning Project document.
 - Site constraints and dependencies will be identified during Phase I. Potential constraints include access agreements; real estate easements; funding constraints; physical constraints such as geology, vegetation, buildings, pavement; climate-related constraints, legal and regulatory requirements.
 - A site closeout statement will be documented for reference throughout the life of the project. The site closeout definition will include a description of the physical appearance of the site at closeout, actions required to achieve site closeout, phasing and timing constraints associated with closeout, and the necessity for operations and maintenance and/or future monitoring.
 - A conceptual site model will be prepared using information obtained during the site visit, as well as additional information. The conceptual model will include site maps or drawings that depict critical site features (e.g., historical land use, buildings, tanks, topography, surface water bodies, property lines, site access, existing well locations, disposal/storage/staging areas), aerial photographs, geology, hydrogeology, hydrology, climatology, ecology, demographic information, current and future land use information about the site and the surrounding area, and results of previous site studies.
 - A Phase I Memorandum for Record (MFR) will be prepared generally following the format provided in Appendix F of EM 200-1-2. A draft and final MFR will be prepared.
- The goal of Phase II is to ensure that all data needed to satisfy a site's project objectives are identified. Phase II will include the following activities:
 - Data needs related to regulatory framework, demographics and land use, the

physical nature of the site, and the nature and extent of UXO will be identified. The usability of existing data will be evaluated and data gaps that must be filled will be identified.

- Data needs will be evaluated from several perspectives: risk data user perspective, compliance data user perspective, remedy data user perspective, responsibility data user perspective.
- Data needs will be documented using worksheets provided in Appendix F of EM 200-1-2 for general format and content guidelines. Adjustments to the worksheet format may be necessary to address site-specific issues.
- The goal of Phase III is to plan sampling and analysis approaches that meet the data needs identified during Phase II. Data quality will be defined for each data type that is based on the intended use of the data and standard practices. Phase III will include the following activities:
 - Data needs will be sorted by location to identify overlapping data needs at a particular location and unique data needs from common locations at the site. Quality objectives for the data needs will also be evaluated.
 - Sampling strategies will be developed and documented, and constraints associated with these strategies will be identified. The use of probabilistic sampling, non-probabilistic sampling, and field screening will be discussed and evaluated. Strategies will be evaluated for their ability to meet data quality objectives, cost, schedule implications, and technical feasibility.
 - Data collection options will also be categorized as “Basic”, “Optimum”, or “Excessive.” Order-of-magnitude costs for each of the options will also be estimated.
 - Data collection options will be documented using worksheets provided in Appendix F of EM 200-1-2, or a comparable format that includes the same information.
- During Phase IV, data collection options are discussed and a data collection program that best meets short and long-term goals for the site are identified. Phase IV will include the following activities:
 - The optimum data collection plan that ties together the data need requirements, sampling and analysis methods, and the intended use of the data to satisfy the requirements of the closeout statements will be determined. Flow charts or decision trees may be prepared to illustrate data collection options and recommendations.
 - During Phase IV, a teleconference will be held with USAESCH, CENAN, and Parsons to select the data collection options.
 - A **second public meeting** will be held during Phase IV so that the rationale for the planned site activities can be relayed to stakeholders.
 - Decisions made during TPP efforts will be documented through data quality objective statements. DQO worksheets in Appendix F of EM 200-1-2 will be used as a guideline for preparing the statements.

- It is assumed that the worksheets prepared as part of Phases I through IV will result in a total document of 30 pages or less in length. It will be submitted as a draft and final.
- GIS staff (coordinated with PM) will digitize and rectify the information gathered during the TPP and incorporate it into the GIS database for the project.

TASK 4 EE/CA WORK PLAN

- The Work Plan and associated subplans will be prepared in accordance with the SOW and current USAESCH guidance (DID OE-001).
- The cost estimate is based on assumptions provided in the SOW. The actual acreage and distribution of transect (and/or grid) acreage to be geophysically surveyed will be refined during development of the Work Plan.
- A combined 72 copies of the Draft, Draft-Final, and Final Work Plan will be produced for distribution according to the revised SOW. Approximately six additional copies of each version will also be prepared for internal use and the project file. In addition, the documents will also be posted on an Internet web site with password protection.
- GIS-CADD maps will be developed for incorporation into the Work Plan. The maps will be developed from digital aerial photographs and topographic maps and other sources to develop figures required in the Work Plan and for other planning documents.
- Parsons assumes USAESCH will provide the archaeology survey and endangered/threatened species of concern reports performed by others in electronic format and prior to Work Plan preparation.
- Parsons will include details in the Work Plan of awareness training to be provided to all personnel involved in the field work pertaining to archaeology concerns and endangered/threatened species of concern.

TASK 5 LOCATION SURVEYS AND MAPPING

- The planimetric and location surveys will be prepared in accordance with DID OE-005-07.
- Parsons is assuming that there is an existing survey monument near by.
- Parsons is assuming that most or all the sample acreage will be geophysically surveyed using the meandering path method. As a result, minimal land survey will be required.
- A GPS unit will be used to located the approximate proposed transect locations presented in the approved Work Plan. Actual transect locations will vary as a result of avoidance of mature trees and other obstacles. The goal for each transect is to proceed in a relatively straight line approach from the designated start coordinate and end at the designated stop coordinate.
- We have assumed the deliverables on mylar and blue-line prints of each final

map as stated in the DID are not required.

- We assume negatives for aerial photos and three sets of prints as stated in the DID are not required. All aerial photography is acquired from USGS either digitally on CD ROM or as a hard copy photograph from which Parsons creates a digital output. These digital aerial photographs are submitted with the final report.

TSAK 6 ESTABLISHMENT AND MANAGEMENT OF GIS

- The GIS will be established and managed in accordance with DID OE-005-14.
- This task includes establishment of the GIS and entry into the GIS of aerial photography, topographic maps, existing site maps, and other appropriate data that will be used to develop the Work Plan and EE/CA Report(s), support the field effort, and maintain the database.
- Includes final project closeout and GIS database submittals on CD ROM.
- Includes support real estate map production and inclusion into the GIS database.
- This task includes USGS quad sheets and a digital elevation model, which will provide the base map for the GIS system. The task also includes building the GIS file by piecing the maps and photographs together and setting up a database in TSSDS format.

TASK 7 SITE CHARACTERIZATION

Task 7a Surface Preparation, OE Identification and Removal

- Parsons and its Subcontractors will provide all necessary qualified personnel and equipment to perform surface preparation, as well as surface OE identification, removal and disposal on the specified areas where subsequent site activities are scheduled to occur under this contract.
- SOW, Paragraph 3.7.1 EXCEPTION: Every effort will be made to minimize brush clearing activities. However, discussions with USAESCH representatives regarding the vegetation indicate that moderate brush cutting activities will be necessary in order to accommodate geophysical instruments for both meandering path and grid surveys. Parsons will coordinate with property owners representatives (State of New York) through USAESCH prior to commencement of brush cutting activities.
- Parsons and its Subcontractors will perform the work necessary to clear the areas of dense vegetation (as described by USAESCH via telephone conversation) to accommodate the meandering path geophysical methodology. Parsons estimates clearance of up to 10 acres of dense vegetation using mechanized equipment and operator. Three-foot wide paths will be cleared in locations proposed by Parsons and approved by USAESCH and the property owner (State of New York). A UXO-qualified individual will provide visual clearance of OE concurrently during the brush clearing effort and subsequent UXO escort in these areas is

assumed to not be required. All surface OE and OE scrap will be removed where these impede the progress, effectiveness or safety of the geophysical investigation team.

- The total area to be geophysically investigated consists of 12.5 acres or less spread over approximately 52.91 acres.
- The Task 5 surveyed transect endpoints will be used to located the approximate proposed transect locations presented in the approved Work Plan. Actual transect locations will vary as a result of avoidance of mature trees and other obstacles. The goal for each transect is to proceed in a relatively straight line approach from the designated start coordinate and end at the designated stop coordinate.
- For the purpose of this cost proposal, We assume that up to 10 acres will require significant brush clearance and up to 2.5 acres will either require only limited brush clearance or no brush clearance. Parsons assumes that the current hiking trails can be included in the geophysical investigation.
- Access routes to areas designated for transects will also be visually cleared of OE items by the UXO-qualified individual prior to geophysical investigation.

Task 7b Geophysical Equipment Test

All aspect of testing, evaluating, and reporting of the geophysical equipment test is included in this Task.

Task 7c Investigation

- One 2-man geophysical team from Parsons plus Site Manager, Geophysical Coordinator, and a UXO QC/Safety will be needed for 3 weeks. As a result of volume of data collected and SOW requirement to provide processed data to USAESCH in a timely fashion, one Geophysical Coordinator will process data during the field effort. Due to the amount of geophysical data generated by the single field geophysical survey team, the Geophysical Coordinator position will be a dedicated part time position conducted from the Atlanta office. The Geophysical Coordinator will produce Anomaly Dig Sheets, interpret remaining data, and QC the data, and discuss with USAESCH prior to providing to the UXO Subcontractor. The onsite Geophysicist will troubleshoot for and serve as a member of the geophysical team and coordinate with the Site Manager to ensure production rates. For all Parsons personnel one roundtrip airfare will be provided during the course of the fieldwork. Parsons assumes field tasks will overlap to reduce the overall duration of the field effort (see Figure 1).
- Parsons will utilize the existed equipment test area established in support of the geophysical prove-out to test equipment. The geophysical equipment will be checked on the test grid daily and readings documented. Equipment will be replaced as necessary depending on the test results.
- Significant brush clearance is anticipated for this project. The brush clearance effort will be conducted prior to the geophysical survey as part of Task 7a. Since visual OE clearance will be conducted as part of the brush cutting task and

the meandering paths will be well defined, no additional UXO support or escort is anticipated for the geophysical survey.

- No contingencies for weather delays have been included in the schedule.
- DID OE-005-05, Section 10.4.1 EXCEPTION: Parsons has significant experience with both EM and Magnetometry tools for conducting geophysical surveys, and with the assessment tools for the data (such as GEOSOFT). Parsons will achieve industry standards for detection of ordnance using these tools, but believes the 99% detection standard listed in the SOW performance goals (DIDs) may be too strict for certain targets. For items greater than 40mm in diameter, the metric defined by Functions 1 and 2 in this DIDs can probably be met. For items between 25mm and 40mm in diameter, it is anticipated that up to three misses per each 100 UXO recovered may occur. For items that are less than 25mm in diameter, it is anticipated that up to ten misses per each 100 UXO recovered may occur. These anticipated misses are based upon professional judgement, past experiences, and review of controlled demonstration site results.
- DID OE-005-05, Section 10.4.2 EXCEPTION: Data that will be collected using the meandering path methodology. It will not be possible to state that the positional accuracy of anomaly locations will be any better than the sum of one half of the inter-line spacing (up to a maximum of 10 feet) and the GPS instrument accuracy (± 2 feet). This is due to the ability of the candidate instrument (the EM-61) to detect large buried objects at distances of up to 10 feet from the center of its sensor coils. Note that errors inherent in either EM or magnetic surveys, including those performed under optimum conditions, yield a positional accuracy that can not be any better than the sum of the navigational error and one half of the interline spacing used to collect the data. Parsons significantly minimizes the effect of positional error by providing our reacquisition teams with metal detecting devices and by giving them the information they need to quickly and effectively reacquire targets in the field.
- It is anticipated that many of the areas investigated at Camp Hero will have small UXO items, and that many of these targets will present themselves at levels that are just above the instrument noise level. In such instances, the false positive rate may be as high as one in three (33%). For larger UXO items (e.g. items over 50mm in diameter or greater than 12 inches in length) the false positive rate is expected to be well below 15%, and may be as low as 1% to 2%.
- The raw (or draft) data that is collected in the field can be transmitted to USAESCH within 36 hours of collection, however, this data will not be in a tabular ASCII format. As we anticipate using an independent GPS system to provide positional data, several processing steps must be performed before the geophysical and positioning data are merged. The process we use is very efficient and minimizes data handling, but requires a review of all pertinent data collected, including field notes. As field notes sometimes require explanation from the field crews, the processing of some data can be held up until the information is clarified. Therefore, some data may take up to five working days

after collection before a usable XYZ file is generated. Parsons will make every effort to transmit “draft-final” XYZ data files to USAESCH within three working days of collection, but some may take up to five days before it can be transmitted. Note that this data is considered “draft-final”, and most, if not all, will be deemed final shortly after transmission to USAESCH.

- Parsons will make every effort to provide USAESCH with a digital planimetric base map(s) of the sites investigated in conjunction with the “draft-final” geophysical data submittal. However, it has been our experience that accurate base maps are not always available during the data collection phase of the project, and sometimes errors are detected in some portions of the base map(s) during the field effort. Therefore, if the initial base map(s) does not accurately depict site conditions, it (they) will be re-worked and submitted when complete, but no later than the final report submission.

TASK 8 INTRUSIVE INVESTIGATIONS (OE SAMPLING)

- One 2-man reacquisition team will mobilize to the site 2 weeks after the initiation of the geophysical survey. This team will reacquire the anomalies selected by the Geophysical Coordinator for intrusive investigation. This team will be independent of the initial geophysical survey team due to concurrent scheduling. Parsons assumes no UXO escort are needed as the transects will be well defined and previously visually cleared of OE.
- Following the geophysical investigation and the first week of reacquisition, intrusive investigations will be initiated on selected anomalies. The anomalies to be investigated will be selected by the Project Geophysicist. It is estimated an average of 30 anomalies per geophysical-acre will be intrusively investigated. Therefore, it is expected that approximately 375 anomalies will be investigated.
- The reacquisition is anticipated to take approximately 2 weeks. The intrusive effort is anticipated to take 2 weeks and commence one week after initiation of the reacquisition task. Parsons will reacquire anomalies using GPS and will mark the locations with flags for the intrusive teams.
- The Geophysical Coordinator will select anomalies for investigation based on professional judgment. The SiteStats/GridStats program for anomaly selection will not be used on this project. The Geophysical Coordinator may choose to intrusively investigate all site anomalies if the average number of anomalies is less than the estimated 30 excavations per geophysical acre used in the cost proposal.
- A 10% QC will be performed by Parsons. The QC shall consist of revisiting the location of a randomly selected 10% (per transect) of the intrusively excavated anomalies. Magnetometers will be used to confirm that the anomaly recorded and presented on the anomaly dig sheets was in fact removed.
- No provisions have been included to close automobile traffic off-site. Road closures may be necessary to perform work in areas near highways. It is assumed that Corps of Engineers will be responsible for making security and

traffic control arrangements.

- UXO items will be “blown in place”. However, no demolitions shall be performed that may jeopardize any historical or archaeological structure or location. In these instances, USAESCH will be contacted for guidance of how to proceed. Parsons assumes that one UXO demolition will be required during the intrusive investigation.
- Locations of UXO and other excavated anomalies will be identified/recorded by the UXO Subcontractor using tape measurements from location flagged during the Parsons reacquisition.
- Ordnance scrap and recovered metal debris may be temporarily stored on site at a location designated by a property owner and approved by USAESCH and will be easily accessible by vehicle.
- Inert ordnance items will be vented prior to final staging as refuse for turn-in as described in the SOW (DID).
- No permits are required for on site explosive disposal of UXO.
- UXO items rendered safe on-site and all scrap recovered will be disposed off site through a local scrap dealer. Parsons has not included cost required for offsite disposal of scrap should there be an associated cost.
- Form DD 1348-1A will be completed as described in SOW (DID).
- Turn-in documentation receipts shall be submitted as a component of the EE/CA Report.
- All access/excavation/detonation holes shall be backfilled by the Subcontractor.

TASK 9 PREPARE INSTITUTIONAL ANALYSIS, IMPACT ANALYSIS, AND EE/CA REPORT

Task 9a Institutional Analysis

- Parsons will perform the Institutional Analysis in accordance with USAESCH guidance and associated DIDs (DID OE-100).

Task 9b Impact analysis

- Qualitative Impact Analysis (QIA) model will be provided by USAESCH and refined by Parsons. Prior to implementation, the refined model will be provided to USAESCH and CENAN for approval.
- The refined QIA model will be used to determine the baseline public exposure and the predicted risk reduction for the proposed remedial options.
- A Site UXO Statistical Report will be prepared documenting the determination of the UXO density estimates. This report will be included as part of the risk report and included in the EE/CA Report submittal.

Task 9c Prepare EE/CA Report

- All areas discussed in Site Visit Report and referenced in SOW will be discussed in EE/CA Report. Areas previously determined to be NDAI by USAESCH will be discussed as such.
- Archaeological and Ecological data (endangered species, etc.) will be summarized from data provided by USAESCH.
- A combined 72 copies of the Draft, Draft-Final, and Final EE/CA Report will be produced for distribution according to the revised SOW. Approximately six additional copies of each version will also be prepared for internal use and the project file. In addition, the documents will also be posted on an Internet web site with password protection. The number of copies may be reduced at USAESCH's discretion due to availability of the Internet web page.

TASK 10 PREPARE ACTION MEMORANDUM

- After approval of the Final EE/CA Report an Action Memorandum will be prepared and submitted to USAESCH for review. Comments will be addressed and final Action Memorandum prepared in accordance with USAESCH guidance.

TASK 11 COMMUNITY RELATIONS SUPPORT

- Although this EE/CA project and the Cold Springs EE/CA project in West Point, New York will be conducted concurrently and involve the same Corps District as well as State Agencies as described in Task 12, the public meetings will not be combined due to different regional considerations. As such, Parsons assumes that all public meetings under this task will be specifically Camp Hero related and the logistics of scheduling a public meeting for the Cold Springs site during the same week is prohibitive.
- As per the revised SOW, Parsons will provide two key project personnel at 2 meetings at site location in Montauk, New York. Each meeting is assumed to be one day but will require an overnight stay. It is assumed that there will be technical preparation work before each meeting and GIS time to prepare display figures/maps. Parsons assumes that no additional public meetings other than those specified will be required under this task.

TASK 12 MEETINGS AND PROJECT MANAGEMENT

- Based on conversations with the USAESCH Project Manager (Mr. Roland Belew) this EE/CA project and the Cold Springs EE/CA project in West Point, New York will be conducted concurrently and involve the same Corps District as well as State Agencies. As such, Parsons assumes that all project meetings under this task will involve discussions and issues for both sites. Therefore, for the purposes of this proposal, the costs associated with the SOW-required meetings (4 in New York and 2 in Huntsville) have been split equally between the two project proposals (2 in New York and 1 in Huntsville). Parsons assumes

that no additional meetings other than those specified will be required under this task.

- As discussed above, Parsons assumes one one-day meetings in Huntsville with PM and SM or Geo Coordinator to discuss and address comments on draft reports with individual reviewers and to discuss geophysical results and how will proceed with intrusive effort. Assume Parsons will drive to Huntsville. Each meeting is assumed to be one day but will require an overnight stay. It is assumed that there will be technical preparation work before each meeting and GIS time to prepare display figures/maps.
- As discussed above, Parsons assumes two one-day meetings in New York with USAESCH PM, Parsons PM and additional key project personnel, and CENAN to discuss various project issues. Each meeting is assumed to be one day but will require an overnight stay. It is assumed that there will be technical preparation work before each meeting and GIS time to prepare display figures/maps.
- Other internal project meetings will be held by the Parsons project team in Atlanta.
- Minutes from all formal Meetings will be prepared in accordance with the SOW (DID OE-045) and included in the appropriate monthly progress reports.
- Assume one week site visit for PM during geophysical/intrusive portion of the project to ensure project field work is progressing appropriately and as planned.
- The task also includes hours to prepare the monthly reports, provide direction to the technical team, and regularly correspond with USAESCH. It is assumed that the duration of the task will be 14 months.

TASK 13 PROJECT DOCUMENTATION

- Project documentation will be incorporated monthly on CD-ROM and submitted to USAESCH. If received prior to the monthly report submittal, the CD will be included with the monthly report submission.
- Parsons assumes approximately 100 8.5"x11" pages per month from USAESCH. Any 11"x17" shall be broken into two pages. No larger maps unless provided in digital format. All information generated by Parsons will be uploaded electronically from the company network.
- One person will coordinate and ensure the information is scanned (as necessary) onto a CD each month. Each subsequent monthly CD will be labeled and include only the data generated during that month.

**COST AND PRICING DATA FOR THE COST PROPOSAL FOR
TASK ORDER TO
CONTRACT NO. DACA87-00-D-0038,
ENGINEERING EVALUATION/COST ANALYSIS (EE/CA) AT
FORMER CAMP HERO
MONTAUK, NEW YORK**

1.0 LABOR AND OVERHEAD RATES

Labor rates used in preparing the cost proposal are based on the contract forward pricing information previously provided.

2.0 JUDGMENTAL FACTORS

The number of labor hours and quantities of other items required to perform each task are estimated using engineering judgment and analysis of the work to be performed. The analysis considered the difficulty and complexity of each work element and assumed efficient use of resources to accomplish the tasks. Where possible, the records of efforts required to perform similar types of work were used to estimate the labor hour requirements. The mix of labor categories to accomplish tasks was designed to minimize the overall cost.

2.1 Scope of Work

Parsons has proposed on the USAESCH Request for Proposal for the Task Order dated 7 November 2000, with attached Scope of Work also dated 7 November 2000.

3.0 TRAVEL AND LIVING EXPENSES

The development of travel costs and living expenses are explained in the following subsections.

3.1 Air Travel

Air travel estimates are based on current rate information from a travel agency using seven-day advance purchase coach fare for direct flights.

3.2 Personal Automobile

The current proposed rate for personal automobile use is \$0.345 per mile.

3.3 Rental Vehicles

Car rental rates were quoted by Hertz for pickup at either LaGuardia or JFK in New

York. The rental rates were formulated on the following methodology:

Daily rental 4x4 (From JFK or LGA).....	\$77.99/day
Sales tax + Airport tax & Fees.....	10.34/day
Total Weekly Cost	\$88.33/day
Weekly rental 4x4 (From JFK or LGA)	\$419.99/week
Sales tax + Airport tax & Fees.....	49.99/week
Total Weekly Cost	\$469.98/week
Daily rental standard car (From JFK or LGA)	\$62.00/day
Sales tax + Airport tax & Fees.....	8.22/day
Total	\$70.22/day
Weekly rental standard car (From JFK or LGA).....	\$372.00/week
Sales tax + Airport tax & Fees.....	49.29/week
Total	\$421.29/week

Mobile office rental (RV) is proposed for this project due to the short field duration. Three vendors were contacted for prices and the rental cost is detailed below and includes associated mileage charges.

Weekly rental standard car (From JFK or LGA).....	\$1000.00/week
Sales tax (@13.25%)	\$132.50/week
Total	\$1132.50/week

In addition to the rental rates shown above, tolls and parking costs may be incurred. These were estimated at \$10 per week per vehicle.

3.4 Per Diem

Per diem rates are based upon the 2000 Prescribed Maximum Per Diem Rates for CONUS. The current rate for Suffolk County, NY is \$206.74, calculated as follows:

Lodging	149.00/day
Room tax (@ 7.25%)	19.75/day
Meals & incidental expenses	38.00/day
TOTAL	\$206.74/day
Huntsville, AL (@11%).....	\$102.38/day

4.0 OTHER DIRECT COSTS

The basis for estimating other direct costs is given below.

4.1 Reproduction Costs

Cost are based on actual cost \$0.05/copy, and blueines on \$1.00/sheet. Specialty large scale drawings and color copies are as shown.

4.2 Equipment

Health and safety equipment costs are based on the Parsons standard schedule.

4.3 Telephone/Facsimile

Rates for telephone calls were determined using \$4.00 as an average call rate and Faxes using \$0.43/page.

4.4 Postage

4.4.1 US Mail Letters. Current postal rate of \$0.54 for average letters is used.

4.4.2 Express Mail. The rates proposed for standard overnight mail are \$12.50 for a 2 lb. package and \$67.37 for a 50 lb. package.

4.5 Computer Usage

Computer usage rates of \$27/hour for GIS Workstation, \$9.50/hour for CADD, and \$4.20/plot for plotter are proposed. Personal computer time is not included as a direct cost.

5.0 SUBCONTRACTORS

The basis of developing subcontractor costs is given below.

5.1 UXO Services

USA Environmental, Inc. (USA) will perform the intrusive UXO work. A copy of their proposal is attached.

**FORMER CAMP HERO EE/CA
MONTAUK, NEW YORK
SITE VISIT REPORT**

PREPARED FOR:
U.S. Army Corp of Engineers
New York District
and
U.S. Army Corp of Engineers
Huntsville Center

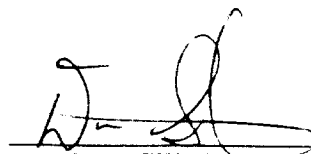
Task Order: 0002
Contract # DACA87-00-D-0038
FUDS Project Number C02NY002402

PREPARED BY:
Parsons, Inc.
100 West Walnut Street
Pasadena, California 91124

Project Number: 739306

January 2001

PREPARED BY:

 1/15/01
Don Silkebakken
Project Manager

**SITE VISIT REPORT FOR THE
FORMER CAMP HERO
MONTAUK, SUFFOLK COUNTY, NEW YORK**

DECEMBER 18-19, 2000

PURPOSE

The purpose of the site visit was to survey the entire former Camp Hero site for familiarity, visually inspect areas identified in the Archives Search Report (ASR) potentially contaminated with ordnance and explosives (OE), evaluate site conditions for application of various geophysical survey approaches, and photograph the areas of concern in support of the Engineering Evaluation/Cost Analysis (EE/CA). In addition, the intention was to meet with representatives from the New York State Office of Parks, Recreation and Historic Preservation (the primary stakeholder) regarding development of the EE/CA field approach including site logistics, geophysical aspects and limitations, environmental concerns, land use, endangered species, and other impacts. The former Camp Hero is depicted on Attachment 1 (Plate 4 from the 2000 ASR).

ATTENDEES

<u>Name</u>	<u>Firm</u>	<u>Position</u>	<u>Telephone</u>	<u>Fax</u>
Roland Belew	U.S. Army Corps of Engineers, Huntsville (USAESCH)	Project Manager	256-895-1553 256-426-3717	256-895-1378
Luz Spann-LaBato	U.S. Army Corps of Engineers, New York District	Lifecycle Project Manager	732-435-0079	732-249-0734
Mark F. Lulka	U.S. Army Corps of Engineers, New York District	Biologist	212-264-5818	212-264-6040
John H. Eberhard	NY State Office of Parks, Recreation and Historic Preservation	Director, Capital Programs	518-486-2923	518-474-8918
Thomas Dess	NY State Office of Parks, Recreation and Historic Preservation	Superintendent, Long Island State Park Region, Montauk State Parks Complex	516-668-2765	516-668-7893
Don Silkebakken	Parsons ES, Atlanta	Project Manager	678-969-2384 404-606-0346	770-446-4910
Michael Short	Parsons ES, Pasadena	UXO Technician II	626-440-3115	626-440-2703
Greg Hedrick	Parsons ES, Atlanta	Project Engineer	678-969-2397	770-446-4910

SITE SAFETY AND HEALTH PLAN

An abbreviated Site Safety and Health Plan (ASSHP) was prepared by Parsons ES and submitted to USAESCH on December 11, 2000 (Attachment 2). Information and instructions for on-site personnel are outlined in the ASSHP and include:

- Ordnance items potentially present at the site;
- Not to touch any potential OE visible on the surface;
- Not to excavate for any reason;
- Slip, trip, and fall hazards;
- Physical stress and related concerns;
- The hazards of snakes, plants, and other dangerous wildlife potentially present at the site;

- The route to the hospital in case of an emergency;
- Plan Acceptance Form.

December 18, 2000

General:

The former Camp Hero is located on the extreme eastern tip (Montauk Point) of the south fork of Long Island, New York, approximately 5 miles east of the village of Montauk. The site is bounded by Montauk Highway (Route 27) to the north, the Atlantic Ocean to the south, Montauk Point State Park to the east, and an undeveloped nature preserve to the west. The Camp consists of approximately 488.69 acres purchased by the War Department for the Department of the Army in 1942 to serve as a coastal defense installation. After the dissolution of the Coastal Defense Service in 1947, the camp became inactive until serving as a training base for Antiaircraft Artillery from 1951 through 1957. Beginning in 1950, the Department of the Army began transfer proceedings to the Department of the Air Force for 96.4 acres to be used as an early warning radar station. Camp Hero, later renamed Montauk Air Force Station remained active until 1982. At that time the majority of lands not already transferred were declared surplus, and transfer of the remaining lands to the State of New York (for park purposes) and the Town of East Hampton (for low cost housing) began.

The ASR subdivided the former Camp Hero into Sectors designated A-M based on a variety of factors including former land use. The ASR concluded that the presence of ordnance was "confirmed" in three of these Sectors and recommended further (EE/CA) investigation. The three Sectors were:

Sector H – Ordnance Destruction Range (8 acres);

Sector K – Near Shore Ordnance Area (44.88 acres); and

Sector L – Off Shore Ordnance Area (756,491.75 acres).

The Scope of Work (SOW) for this EE/CA project does not address Sector L (see Attachment 3). Furthermore, a small parcel consisting of only 0.03 acres (**Area A** – Fire Control/37mm AAA Station) was included in the SOW for EE/CA investigation although the ASR did not confirm the presence of ordnance in this Sector. The total acreage identified for EE/CA investigation per the SOW is 52.91 acres. The Site Map (Attachment 1) depicts the approximate location and orientation of each of the Sectors within the former Camp. The State of New York owns/controls all 52.91 acres of the former Camp Hero property within the EE/CA study area. Access is controlled by fencing and permits are issued on a limited basis for fishing. Problems with frequent trespassing on the site have been reported.

A project kickoff meeting was held at the Montauk State Parks Complex in Montauk, New York to discuss the concerns of the New York State Office of Parks, Recreation and Historic Preservation (Parks Dept.) regarding the upcoming EE/CA to be conducted at the former Camp Hero. The meeting attendees were USAESCH PM Roland Belew, Lifecycle PM Luz Spann-LaBato (NY Corps District), John Eberhard (Office of Parks), Thomas Dess (Office of Parks), Don Silkebakken (Parsons ES PM), and Greg Hedrick (Parsons ES Project Engineer). Included in the discussions was a brief overview of the EE/CA process and the need to initiate the Technical Project Planning (TPP) stage (SOW Task 3) as soon as possible. Mr. Belew and Mr. Silkebakken explained to the Parks Dept. representatives that as part of the TPP stage, it would be beneficial to conduct public meetings to inform the public of the objectives of the EE/CA and the activities to be conducted to meet these objectives. The Parks Dept. agreed that public meetings should be held and expressed their desire to conduct the meetings at the present location. The Parks Dept also indicated that there is a faction of local residents and visitors to the area that believe the U.S. Government has been, and still is conducting some secret research projects in the area. Mr. Dess indicated that there have been numerous reports of trespassing incidents where individuals were searching for what they believe are entrances to underground facilities in the area. The Parks Dept was hesitant to open the meeting to the entire public because of these issues. Mr. Belew stated that being totally open would be the best policy and suggested a press release to inform the public of the study to determine if OE remains on site. The issue regarding brush cutting was also discussed during the meeting. The Parks Dept. expressed the desire to keep any brush cutting to a minimum to maintain the natural look of the property. Mr. Silkebakken discussed both meandering path and grid geophysics and associated vegetation removal. The Parks Dept. were much more favorable to the three foot wide "meandering path" technique over the grid technique where possible. The Parks Dept suggested cutting a small path off the main path for access to the area to be surveyed. Once the initial path was cut, additional clearing/paths could be cut out of the view of the public using the entrance path as the starting point. The preparation/distribution of a project fact sheet/brochure was also discussed. The USACE project fact sheet is included as Attachment 4.

Ms. Spann-LaBato indicated that someone with Cashin Associates (a remediation firm who has been working at the site) had previously mentioned that Indian artifacts may be present in the area. Mr. Dess said that he was not aware of any burial grounds or villages within the former Camp Hero property. Ms. Spann-LaBato said that she would call Cashin Associates for more information regarding this matter. She also asked the Parks Dept. if they were going to retain Cashin Associates to review the documents submitted concerning the EE/CA. Mr. Belew expressed the need for any additional reviewers (in addition to USAESCH) to be familiar with OE projects.. Mr. Belew further explained the expertise and capabilities of the USAESCH and Parsons ES in relation to OE projects. The meeting concluded and the team prepared to initiate the site tour which was led by the Parks Dept.

Other Items of Note:

- The two local newspapers to contact for public announcements and other information pertaining to the site are the East Hampton Independent and the East Hampton Star.
- The secret status of the ASR is being downgraded and will be distributed soon.
- The TPP meeting was tentatively scheduled for January 25, 2001.
- A post kickoff meeting video was prepared by Mr. Belew which included key project members, site background information, and narrated onsite field information.
- The ASR has not been electronically posted to the USACE Project Information Retrieval System (PIRS) and will not be in the future due to lack of funding.
- The Parks Dept. agreed to allow Parsons to set up a temporary field trailer at the West Gate. This location has power and phone capabilities and was used by the remediation contractor (Cashin Associates) recently. The location will be within the electronically controlled access gate. The immediate area is surrounded by chain-link fence. The Parks Dept. provided a key to the East gate which allows direct access to the project areas.
- According to the Parks Dept., the procedure for ordnance findings consists of notification of the Park Police who in turn notify the Suffolk County bomb squad.

SITE SPECIFIC TOUR

December 18, 2000

The Site Specific tour was led by the Parks Dept. representatives and included a large portion of the former Camp Hero beyond the project areas for familiarity. Parsons ES marked GPS Waypoints on a hand held GPS unit for future reference during preparation of the project Work Plan. In addition, numerous digital photographs were taken by Parsons ES as well as video by Mr. Belew. Mr. Belew provided a copy of the video to Parsons ES as the conclusion of the Site Visit.

The first stop on the tour was the West Gate entrance located south of Montauk Highway. This gate was open during the time of the site visit but is typically locked unless the Parks Dept is conducting activities in the area. At this location Mr. Mark Lulka USACE, NY District biologist) was waiting to join the Site Visit team. He has been working at the site some time with the remediation contractor (Cashin Associates) and is familiar with the project area. The Parks Dept. identified the location acceptable for locating the project field trailer.

From the West Gate the group proceeded to the "sewers area", designated as such due to the presence of an out of use sewer box and associated piping located on the beach. Access to the beach in this area (which is the northeastern extent of project area K) is relatively easy due to the low elevation of the bluff (lowest point along the bluff). This area is used heavily during certain times of the year for surf fishing. The Parks Dept issues fishing permits and parking passes for this purpose. Parking spaces are located along the bluff roadway and are marked with signs. Although parking is limited, many fisherman travel on foot to the area to fish. The Parks Dept said that a fisherman discovered a 90mm round while surf fishing in the area, although the timeframe was not identified. It is believed that wave action is responsible for bringing some OE items to the shoreline from the offshore impact zone (Area L). According to the Parks Dept., the surf is almost always rough and windy conditions are the norm. The shoreline consists exclusively of rounded cobbles and boulders that will not be amenable to any type of pulled geophysical equipment. The bluff walls are nearly vertical in most places and the change in elevation between the shoreline and top of the bluff varies from a few feet to 50 feet or more. Extensive erosion of the bluff is evident and several areas were designated as unsafe by signs. In excess of 50% of the project area (Area K) is cobbled beachfront with the remainder made up of steep bluff face and surface. The bluff surface is characterized by dense scrub oak vegetation. Heavy mechanized equipment will be necessary to cut paths for the geophysical teams.

From this location the team proceeded southwest along the bluff within Area K. Artillery fragments have been located in this area in the past. This area is also covered with dense brush and will require some form of machinery to clear the brush prior to conducting geophysical surveys. The reconnaissance of this area was conducted along a pathway at the top of the bluff and along the access roadway that traverses much of the area. The path was followed into Area H. Several OE items were visible on the ground surface in an area just off the pathway. Wetlands were also noted in the area and a small stream flowing south to the shore was present. Brush cutting activities will not take place in any wetlands area.

From Area H the group proceeded by vehicle to a large circular asphalt area adjacent to Area H designated as Area I – Target Plane Launching Area. This area is the highest point along the bluff. From Area I the group proceeded by vehicle to the abandoned radar tower which is the tallest structure (aside from the historical lighthouse) in the area. The radar tower contains stairs that lead from the ground floor to the roof of the facility. The stairs were taken to the roof of the tower for a better view of the project area and the former Camp Hero site in general. Much of the original electronic equipment contained within the radar tower has been vandalized by trespassers over the years. Many of the electronic consoles were apparently thrown from the roof of the facility.

After leaving the radar tower, the group proceeded back to West Gate to exit the facility. The route back to the gate included a stop at one of the 16-inch gun emplacements. The gun emplacement was sealed with concrete preventing access. The gun emplacement showed signs of vandalism in the form of a hole through the facing of the structure, most likely made using a sledgehammer. Other signs of vandalism were present throughout the facility, mainly in the form of graffiti on the majority of the remaining structures. After exiting the West Gate, the Parks Dept took the group to another entry gate (East Gate located just west of the Montauk Lighthouse. A key to this gate was provided to Parsons ES. The group proceeded back the Montauk State Parks Complex to end the site tour.

December 19, 2000

Roland Belew, Don Silkebakken, Michael Short, and Greg Hedrick met at the Montauk State Parks Complex and departed for the project areas for additional site reconnaissance. Access to the site was made at the eastern entrance using the key provided by the Parks Dept. Personnel from the Parks Dept did not accompany USAESCH and Parsons on today's visit. Prior to conducting the site tour, a health and safety briefing was conducted by Mr. Short. The reconnaissance consisted of a more thorough tour including discussions of the applicability of different geophysical mapping approaches. Using a Schonstedt Magnetic Locator, it was determined that many of the rocks and cobbles located along the shoreline contained naturally occurring magnetic minerals causing the instrument to "ring off" frequently. This will be further examined in the geophysical prove-out conducted prior to submittal of the project Work Plan. Mr. Short identified the OE items in Area H as components of 75/76mm projectiles (most likely high-explosive) and 120mm mortars (most likely illumination). Numerous subsurface anomalies were also detected in the area with the Schonstedt. Three to four pieces of metal frag (indicative of high explosive ordnance use) was also located on the beach by Mr. Short.

The team concluded that Area K will require some ingenuitive approaches to conduct geophysics, especially on the cobble beach and the steep bluff face. On the bluff itself the key will be to obtain a good mechanical brush clearing device and to layout the meandering paths early in the Work Plan. In Area H the team concluded it would be prudent to map the entire 8 acres based on the past use of the area as a demolition area and the visible OE presence. This would require complete vegetation removal of this area and will need to be further discussed with the Parks Dept. Alternatively, the area could be 50% mapped by cutting 3-foot paths alternating with 3-foot non-brush cut areas to reduce the visual impact of the brush clearing activity.

ACTION ITEMS

Parsons ES will develop a project website with both public and team areas (password protected).

The first TPP Meeting was tentatively scheduled for January 25, 2001. This date was later revised to the week of February 5, 2001.

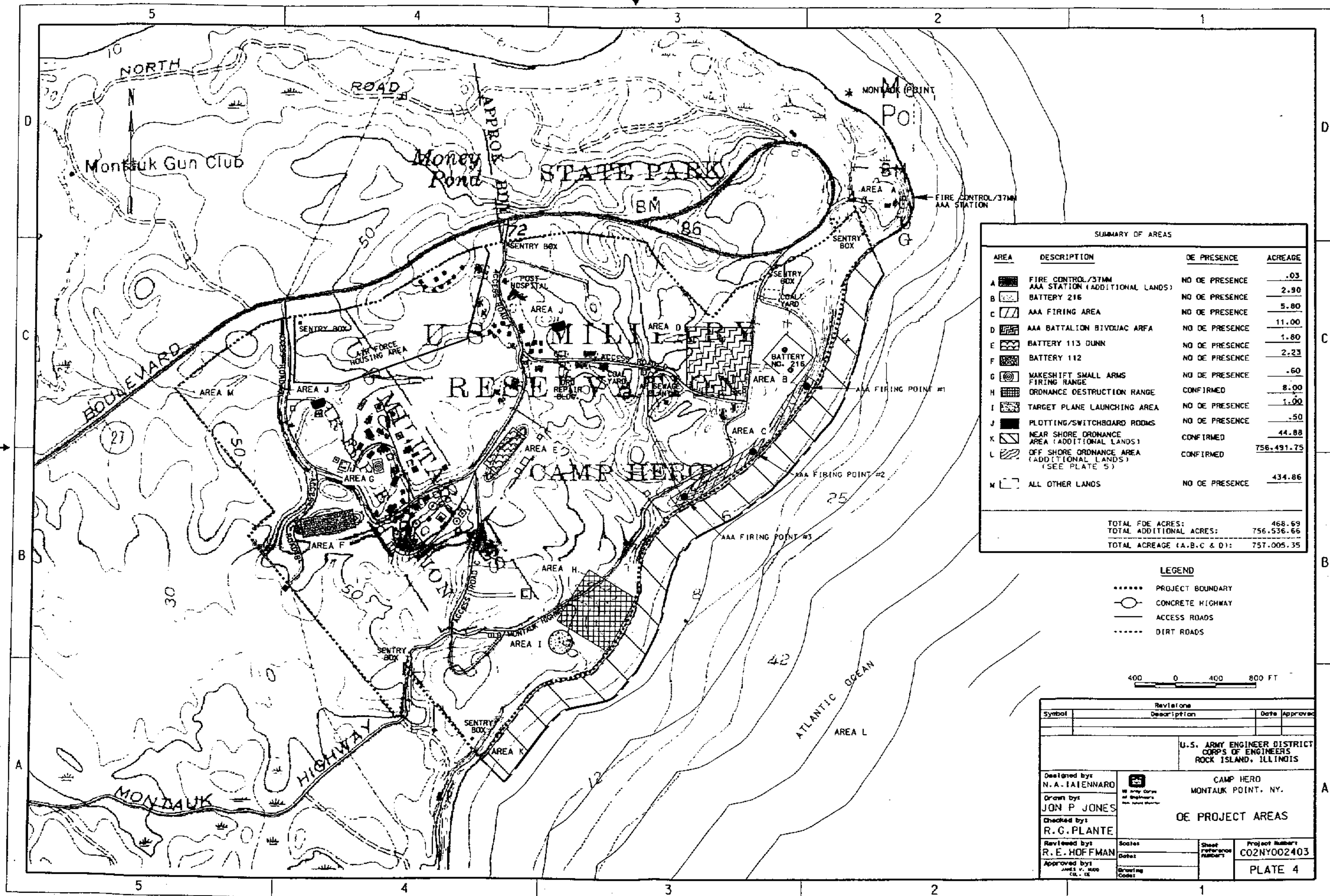
Roland Belew will have the secret status of the ASR removed and mail copies to Don Silkebakken and Luz Spann-LaBato.

Luz Spann-LaBato will contact Cashin Associates and provide the information on Indian artifacts to Mr. Belew for distribution to Parsons ES.

Bound copies of the project ASR will be provided by Mr. Belew to Parsons ES following removal of "secret" stamp that has not been removed from some of the contained material pages.

OTHER SITE VISIT ACTIVITIES

The local library was visited and a number of reference materials pertaining to the site were reviewed.



ATTACHMENT 2
ABBREVIATED SITE SAFETY AND HEALTH PLAN

Parsons engineering science, INC.
A UNIT OF PARSONS INFRASTRUCTURE & TECHNOLOGY GROUP
5300 Triangle Parkway • Suite 100 • Norcross, Georgia 30092 • (770) 448-4900 • Fax: (770) 446-4910

ORIGINAL
FAX

December 13, 2000

US Army Engineering & Support Center
ATTN: CEHNC-CT-E, Lydia Tadesse
4820 University Square
Huntsville, AL 35816-1822
256-895-1169

Subject: Contract DACA87-00-D-0038, Delivery Order 0002
Ordnance and Explosive Engineering Evaluation/Cost Analysis at the
Former Camp Hero, Montauk, New York

Dear Ms. Tadesse:

Parsons ES is currently scheduled to conduct a Site Visit at the former Camp Hero on December 18 and 19, 2000 in preparation for the upcoming EE/CA investigation effort. As such, I am requesting your approval for the UXO personnel listed below:

- Michael Short (0399).

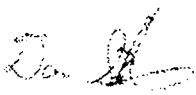
This individual will serve in the capacity of UXO Technician II, subject to USAESCH approval, and implement UXO avoidance procedures under the direction of the Site Safety and Health Officer. He is current on all certifications and medical monitoring and recently served in a similar capacity on the Camp Ibis project in San Bernardino, California. Mike is a resident of Orange County, California.

Don Silkebakken, the Parsons Project Manager, will serve in the capacity of SSHO for the Site Visit team for the two to three day effort. Don will conduct the daily safety briefings, enforce the ASSHP, and will keep the team together and under close control.

If you have any questions regarding this letter or need additional information, please contact me at (678) 969-2384.

Sincerely,

PARSONS ENGINEERING SCIENCE, INC.


Don Silkebakken, P.E.
Project Manager

cc: Roland Belew (CEHNC-OE-DC)
Greg Bayuga (CEHNC-OE-S-P)


Lydia Tadesse 12/13/00
Contracting Officer

Parsons engineering science, INC.
A UNIT OF PARSONS INFRASTRUCTURE & TECHNOLOGY GROUP
5390 Triangle Parkway • Suite 100 • Norcross, Georgia 30092 • (770) 446-4900 • Fax: (770) 446-4910

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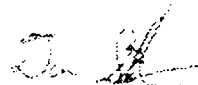
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PARSONS ENGINEERING SCIENCE, INC.


Don Silkebakken, P.E.
Project Manager

cc: Roland Belew (CEHNC-OE-DC)
Greg Bayuga (CEHNC-OE-S-P)


Lydia Tadesse 12/13/00
Contracting Officer

PARSONS ENGINEERING SCIENCE, INC.

A DIVISION OF PARSONS INFRASTRUCTURE & TECHNOLOGY GROUP

5540 Triangle Parkway • Suite 100 • Norcross, Georgia 30092 • (770) 446-4900 • Fax: (770) 446-4911

December 12, 2000

US Army Engineering & Support Center
ATTN: CEHNC-CT-E, Lydia Tadesse
4820 University Square
Huntsville, AL 35816-1822
256-895-1169

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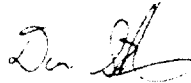
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Sincerely,

PARSONS ENGINEERING SCIENCE, INC.



Don Silkebakken, P.E.
Project Manager

cc: Roland Belew (CEHNC-OE-DC)
Greg Bayuga (CEHNC-OE-S-P)
Ken Stockwell, Parsons ES
Project File



ABBREVIATED SITE SAFETY AND HEALTH PLAN (ASSHP)**FOR**

Site Name: The Former Camp Hero

Site Location: Montauk, New York

Task Order Number: 0002

Contract Number: DACA87-00-D-0038

Purpose of Visit: To perform a site visit and records review at the former Camp Hero and gather information for planning and preparation of an Engineering Evaluation/Cost Analysis (EE/CA).

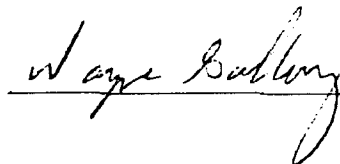
ASSHP Prepared By: Parsons Engineering Science, Inc.

Office / Address: 5390 Triangle Parkway, Suite 100, Norcross, GA

Telephone: (770) 446-4900

Facsimile: (770) 446-4910

Date Prepared: December 11, 2000

Signature:**Date:** 12/11/00**ASSHP Reviewed By:****CEHNC Safety Office:****Date:**

12/13/00

Date:

Note: This ASSHP is to be used only for non-intrusive Preliminary assessments and it must be approved by the safety office prior to the start of the field visit. All team members must read, and comply with the ASSHP, and attend the safety briefings. The UXO Escort shall ensure the Safety Briefing Checklist and the plan acceptance forms are filled out prior to the start of operations.

I. Site Description and Previous Investigations

ABBREVIATED SITE SAFETY AND HEALTH PLAN (ASSHP)

FOR

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ASSHP Reviewed By:

CEHNC Safety Office: (See Fax Copy) **Date:** _____

_____ **Date:** _____

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I. Site Description and Previous Investigations

A. Site Description:

The former Camp Hero is located in the most eastern part of Long Island, New York in Suffolk County. The former Camp occupies approximately 757,005 acres, of which only approximately 53 acres are to be investigated during the EE/CA. The remaining 756,492 acres was used as an offshore firing area. The land of the former camp is rural. It was used as harbor defense during WW II. For this defense, three (3) batteries were constructed along with barracks, hospital facilities, mess halls, and various facilities required to operate the camp. The topography is generally flat with thick understory. The site currently consists of all areas previously under DoD control.

B. Present Usage: (Check all that apply)

- | | | |
|--|--|--|
| ☐ Military | ☒ Recreational | ☐ Other (specify) |
| ☐ Residential | ☐ Commercial | ☐ Unknown |
| ☒ Natural Area | ☐ Industrial | |
| ☐ Agricultural | ☐ Landfill | |
| ☒ Secured | ☐ Active | |
| ☒ Unsecured | ☒ Inactive | |

C. Past Uses:

The former Camp was established to provide harbor defense during WW II. Three batteries were constructed. Two batteries both contained two 16-inch casemated guns. The other battery contained two 6-inch shielded guns.

D. Surrounding Population:

The Former Camp Hero is located on the most eastern tip of the south fork of Long Island, New York, five (5) miles east of Montauk. The site consists of rural areas densely populated with various hardwoods.

- | | | |
|---|--------------------------------------|--|
| ☒ Rural | ☐ Residential | ☐ Other (Specify) |
| ☐ Urban | ☐ Industrial | |
| ☒ Remote location | ☐ Commercial | ☐ None |

E. Previous Sampling /Investigation Results:

No data is currently available on previous investigations at the site.

1. OE Encountered: N/A

2. Samples (Air, Water, Soil, Vegetation): N/A

II. Description of On-Site Activities

- | | | |
|--|---|--|
| ☒ Walk-through | ☒ Drive-through | ☐ Other (Specify) |
| ☒ On road | ☐ Off-road | |
| ☒ On path | ☐ Off path | |
| ☐ Other | ☐ Other | |

Activities/Tasks to be Performed: Personnel will walk around and over the work site. The inspection conducted on non-paved surfaces will be primarily made on foot. Motor vehicles will be used on existing dirt roads only. When personnel are out of the vehicles they will be escorted by a UXO Escort and care will be exercised to ensure that personnel do not walk on or disturb any possible OE contamination.

III. Site Personnel And Responsibilities

CEHNC PM: Mr. Roland Belew

Address: P. O. Box 1600, Huntsville, AL 35807-4301

Phone: (256) 895-1553

Parsons SSHO: Don M. Silkebakken

Office: Parsons Engineering Science, Inc.

Address: 5390 Triangle Parkway, Suite 100, Norcross, Georgia 30092

Phone: (678) 969-2384

Responsibilities: Serve as the Site Safety and Health Officer to include conducting daily safety briefings, enforce and implement the ASSHP, and keep the team grouped together and under close control.

UXO Technician II: Mr. Michael E. Short

Office: Parsons Infrastructure and Technology Inc.

Address: 100 West Walnut Street, Pasadena, CA 91124

Phone: (626) 440-3115

Responsibilities: Perform duties of UXO Technician II.

First Aid/CPR Certified Personnel: Parsons personnel are CPR/first aid trained.

IV. Hazard Analysis

A. Safety and Health Hazards Anticipated

[] Chemical: No chemical hazards are anticipated even though they may have been used. However, if CWM is encountered or suspected, personnel will withdraw upwind outside of the fragmentation zone of the ordnance and contact CEHNC.

[x] Ordnance: The following ordnance is thought to have been used at various portions of the site:

- 6-inch or 16-inch gun projectiles (per Roland Belew);
- 3-inch or 5-inch Navy projectiles (per Greg Bayuga).

☐ Heat Stress	☒ Cold Stress	☒ Tripping Hazard
☐ Noise	☐ Electrical	☐ Falling Objects
☒ Foot Hazard	☒ Biological	☐ Overhead Hazard
☐ Radiological	☐ Confined Space	☐ Water Hazard
☐ Explosive	☒ Climbing Hazard	☐ Other (Specify)
☐ Flammable	☐ Hantavirus	

B. Overall Hazard Evaluation

The overall hazard evaluation for the fieldwork to be conducted at the former Camp Hero is low. However, there is the potential for physical hazards such as slips, trips, and falls, and biological hazards such as poisonous plants, insects and snakes.

☐ High ☐ Moderate ☒ Low ☐ Unknown

Justification: All site visit personnel in field locations will be escorted at all times by a UXO Escort. Personnel will not touch, move, or excavate any UXO/OE.

V. Accident Prevention

A. General Precautions: Prior to the on-site visit, all team members are required to read this ASSHP and sign the form acknowledging that they have read and will comply with it. In addition, the UXO Escort shall hold a brief tailgate meeting in which site specific topics regarding the days activities will be discussed. The buddy system will be enforced at all times. If unanticipated hazardous conditions arise, team members are to stop work, leave the immediate area, and notify the CEHNC.

Snakes: There are only three poisonous snakes found in New York: the timber rattlesnake, the pygmy rattler, and the copperhead. All three are uncommon. The timber rattlesnake can be found in the southeastern part of the state, except Long Island and New York City.

Hazardous Plants: During site activities the number and variety of hazardous plants that may be encountered is large and extensive. The ailments associated with these plants range from mild hay fever to contact dermatitis, to carcinogenic affects. However the plants which present the greatest degree of risk to site personnel (i.e., potential for contact versus affect produced) are those that produce skin reactions and skin and tissue injury. Contact with splinters, thorns and sharp leaf edges is of special concern to site personnel. This concern stems from the fact that punctures, cuts and even minor scrapes caused by accidental contact may result in non-infectious skin lesions, and the introduction of fungi or bacteria through the skin or eye.

Insects: Contact with stinging insects like bees, hornets, wasps, and fire ants may result in site personnel experiencing adverse health affects that range from being mild discomfort to life threatening. Therefore, stinging insects present a serious hazard to site personnel, and extreme caution must be exercised whenever site and weather conditions increase the risk of encountering stinging insects.

B. Specific Precautions: Personnel will not touch, move, and/or disturb any UXO or Ordnance Related Items. Personnel will be instructed to avoid contact with any snakes encountered on the site and cautioned not to reach into places where snakes may hide, such as rock and holes.

Personnel receiving injuries, such as cuts and scratches, from plants shall report the injury immediately to the UXO Escort for first aid and observation. Personnel will avoid contact with poisonous plants and report any poisonous plants encountered to the UXO Escort. Personnel will

wash hands and other exposed skin that comes in contact with poisonous plants.

There is no effective treatment for injuries from stinging insects. The use of insect repellents will be encouraged by the UXO Escort if deemed necessary. Anyone receiving an insect bite, especially spiders or scorpions, will report it to the UXO Escort.

VI. Standard Operation Safety Procedures, Engineering Controls and Work Practices

- A. Site Rules/Prohibitions:** At any sign of unanticipated hazardous conditions, stop tasks, leave the immediate area, and notify the CEHNC. Smoking, eating, and drinking is only allowed in designated areas
- B. Material Handling Procedures:** Do not handle.
- C. Drum Handling Procedures:** Do not handle.
- D. Confined Space Entry:** Do not enter.
- E. Ignition Source and Electrical Protection:** Smoke in designated areas only.
- F. Spill Containment:** Not Applicable
- G. Excavation Safety:** Do not enter trenches and/or excavations.
- H. Illumination:** Work during daylight hours only.
- I. Sanitation:** Use existing sanitary facilities.
- J. Buddy System:** Two persons on-site maintaining constant contact with each other. This shall be adhered to at all times.
- K. Heat Stress/Cold Stress:** Dress appropriately. Take sufficient breaks and drink plenty of fluids. Watch for signs/symptoms of cold stress. Monitoring may be applicable depending on site weather conditions, and type of PPE worn.
- L. Ordnance:**
 - 1. General Information:**
 - a. The cardinal principle to be observed involving explosives, ammunition, severe fire hazards or toxic materials is to limit the exposure of a minimum number of personnel, for the minimum amount of time, to a minimum amount of hazardous material consistent with a safe and efficient operation.
 - b. The age or condition of an ordnance item does not decrease the effectiveness. Ordnance that has been exposed to the elements for extended periods of time become more sensitive to shock, movement, and friction, because the stabilizing agent in the explosives may be degraded.
 - c. When chemical agents may be present, further precautions are necessary. If the munition item has green markings leave the area immediately, since it may contain a chemical filler.

- d. Consider ordnance that has been exposed to fire as extremely hazardous. Chemical and physical changes may have occurred to the contents that render it more sensitive than it was in its original state.

2. On-Site Instructions

- a. **DO NOT** touch or move any ordnance items regardless of the marking or apparent condition.
- b. **DO NOT** visit an ordnance site if an electrical storm is occurring or approaching. If a storm approaches during a site visit, leave the site immediately and seek shelter in a building or vehicle. If in the open, seek shelter in a low place such as ravine. Under no circumstances stand on a hilltop or under a tree.
- c. **DO NOT** use radio or cellular phones in the vicinity of suspect ordnance items.
- d. **DO NOT** walk across an area where the ground cannot be seen. If dead vegetation or animals are observed, leave the area immediately due to the potential contamination of chemical agent.
- e. **DO NOT** drive vehicles into a suspected OE area; use clearly marked lanes.
- f. **DO NOT** carry matches, cigarettes, lighters or other flame producing devices into an OE site. During operations, these materials may be stored in a central location for use during breaks conducted in authorized smoking areas.
- g. **DO NOT** rely on color code for positive identification of ordnance items or their contents.
- h. Approach ordnance items from the side, avoid approaching the front and rear areas.
- i. Always assume ordnance items contain a live charge until it can be determined otherwise.

3. Specific Action Upon Locating Ordnance

- a. DO NOT touch, move or jar any ordnance item, regardless of its apparent condition.
- b. Approach the item cautiously, take photographs and a full description. Take notes of the markings or any other identifiers.
- c. DO NOT be misled by markings on the ordnance item stating "practice bomb", "dummy", or "inert". Even practice bombs have explosive charges that are used to mark/spot the point of impact; or the item could be miss-marked.
- d. DO NOT roll the item over or scrape the item to identify the markings.
- e. The location of any ordnance items found during site investigation should be clearly marked so it can be easily located and avoided.
- f. CEHNC should be notified upon location of any ordnance. See Section VIII for telephone number.

- M. Other:** Foul weather gear may be worn as appropriate. Water, safety equipment, first aid kit, and a cellular phone will be used while on site. Personnel using medication will inform the UXO Escort prior to beginning work at the site. Physical conditions that may impact performance and safety (blisters on feet, weak knees, twisted ankle, colds, fever, etc. will be reported to the UXO Escort. The UXO Escort will monitor personnel physical condition and determine if the individual is capable of participating in an activity.

VII. Site Control and Communications

A. Site Map: N/A

B. Site Work Zones: N/A

C. Buddy System: To be adhered to at all times.

D. Communications: Verbal/visual

1. **On-Site:** Verbal communications will be used among team members to communicate to each other on-site. If this communication is not possible, hand signals will be used. Specify below.

Hand gripping nose - Unusual smell detected

Thumbs up - Okay: I am alright or I understand and Thumbs Down - No, Negative

Grip partner's wrist or both hands around waist - Leave the area immediately

2. **Off-Site:** Off-site communications shall be available on site.

☒ cellular phone ☐ public/private phone ☐ radio

3. **Emergency Signals:** In the case of small groups, a verbal signal for emergencies shall suffice. The emergency signal for large groups (i.e. horn) may be incorporated at the discretion of the UXO Escort.

VIII. Emergency Response

A. Emergencies: Team members are to be alert to the dangers associated with the site at all times. If an unanticipated hazardous condition arises, stop work, evacuate the immediate area, and notify the CEHNC.

B. First Aid: A first aid kit will be in the UXO Escort's vehicle.

C. Emergency Telephone Numbers: Telephone numbers for the medical facilities are recorded in space provided below.

<u>Agency</u>	<u>Telephone Number</u>	<u>Remarks</u>
Eastern Long Island Hospital 201 Manor Place Greenport, NY 11944	(516) 369-1045	

Queens-Long Island Medical Center (516) 369-1045
170 Old Country Rd.
Riverhead, NY 11901

Fire/Police/Ambulance

Montauk Police Department (631) 668-3709
State Police Department (631) 788-7600
Amagansett Fire Department (631) 267-3300
Stonington Ambulance (860) 535-3721

Poison Control Center (NY) (800) 962-1253

CHEMTREC (800) 424-9300

CEHNC Safety Office (256) 895-1582

For emergencies involving the discovery of OE or CWM, contact CEHNC. Huntsville will determine the nature of the emergency and contact appropriate authorities.

CEHNC Project Manager (256) 895-1553

Parsons Project Manager (678) 969-2384

Parsons Safety Manager (512) 719-6006

D. Hospital/Medical Facility Information

To reach Eastern Long Island Hospital (see Figure 1):

- Start out going South on Second House Road towards S. Eldert Lane by turning right. Turn right onto Montauk Hwy/NY-27. Montauk Hwy/NY-27 becomes Pantigo Rd/NY-27. Pantigo Rd/NY-27 becomes NY-27. Turn right onto Newtown Ln. Turn slight left onto Railroad Ave. Turn left onto Race Ln. Race Lane becomes Gingerbread Lane. Gingerbread Lane becomes Toilsome Ln. Turn slight right. Turn right onto NY-114. NY-114 becomes NY-114/Hampton St. Turn slight right onto NY-114. Turn slight left onto NY-114/Bay St. NY-114/Bat St. becomes NY-114/Ferry Rd. Stay straight to go onto Tyndall Rd. Turn right onto Sunset Beach Rd. Turn left onto S. Ferry Rd/NY-114. S. Ferry Rd/NY-114 becomes South Ferry. South Ferry becomes NY-114. Pass through one roundabout. Turn right onto NY-114/Cedar Ave. NY-114/Cedar Ave becomes NY-114. Turn left onto NY-114/Summerfield Pl. NY-114/Summerfield Place becomes North Ferry. North Ferry becomes Wiggins St/NY-114. Turn right onto 3rd St/NY-114. Turn right onto Front St/NY-25. Turn left onto Main St/NY-25. Turn sharp right onto Sterling St. Address is 1003 12th Street. The total trip is approximately 31 miles and should take about 1 hour, 26 minutes.

To reach the Queens-Long Island Medical Center (see Figure 2):

- Start out going South on Second House Road towards S. Eldert Lane by turning right. Turn right onto Montauk Hwy/NY-27. Montauk Hwy/NY-27 becomes Pantigo Rd/NY-27. Pantigo Rd/NY-27 becomes NY-27. NY-27 becomes NY-27/Main St. Turn right onto NY-27/Woods Ln. NY-27/Woods Lane becomes NY-27/Montauk Hwy. Turn slight right. Take NY-27. Take the RT-24 N exit, exit number 65N, towards Riverhead. Merge onto NY-24 N. Take CR-105 N. Turn left onto NY-25. Stay straight to go onto CR-58. The Hospital is located at 170 Old Country Road. Travel time from Camp Hero is approximately 1 hour and 37 minutes.

E. First Aid: A first aid kit will be provided during field activities. Parsons personnel are

CPR/first aid trained.

IX. Monitoring Equipment and Procedures

A. Exposure Monitoring: N/A

B. Heat/Cold Stress Monitoring: Heat and cold stress monitoring will not be required during these field activities due to moderate temperatures and limited physical activities planned.

X. Personal Protective Equipment

A. General: Typically, for non-intrusive site visits, Level D is required. Hard hats shall be worn if a overhead hazard exists, safety shoes will be worn if a foot hazard exists, and safety glasses shall be worn if an eye hazard exists.

B. Non-Intrusive Site Visit: Level of Protection

Initial ☐ Level C ☒ Level D

Contingency ☐ Level C ☒ Level D

[x] Evacuate site if higher level of protection is needed.

XI. Decontamination Procedures

Decontamination procedures are not anticipated for this site investigation. Team members are cautioned not to walk, kneel or sit on any surface with potential leaks, spills or contamination.

XII. Training

All site personnel have completed the training required by EM 385-1-1 and 29CFR 1910.120(e). The UXO Escort shall inform personnel before entering, of any potential site-specific hazards and procedures.

XIII. Medical Surveillance Program

Most on-site personnel are on the Medical Surveillance Program meeting the requirements of 29CFR 1910.120, and ANSI Z-88.2, as appropriate, depending on the PPE and site specific tasks. Based on the current risk assessment, not all personnel are required to have current OSHA or a medical exam. All personnel will be accompanied by the UXO Escort who will assess areas for risk. If at any time the risk exceeds the present assessment, the UXO Escort will direct personnel to avoid the area.

XIV. Logs, Reports and Recordkeeping

Site logs are maintained by the Parsons' Project Manager. This is to include historical data, personnel authorized to visit the site, all records, standard operating procedures, and the ABSSHP submitted.

XV. General

The number of persons visiting the site shall be held to a minimum. The more persons on-site, the greater potential for an accident. The UXO Escort may modify this ABSSHP if site conditions

Note: Non-UXO personnel will always be with a UXO qualified person during the site walks.

warrant it and without risking the safety and health of the team members. This modification will be

coordinated with the team members and the UXO Escort shall notify CEHNC PM-SO of the change as the situation allows.

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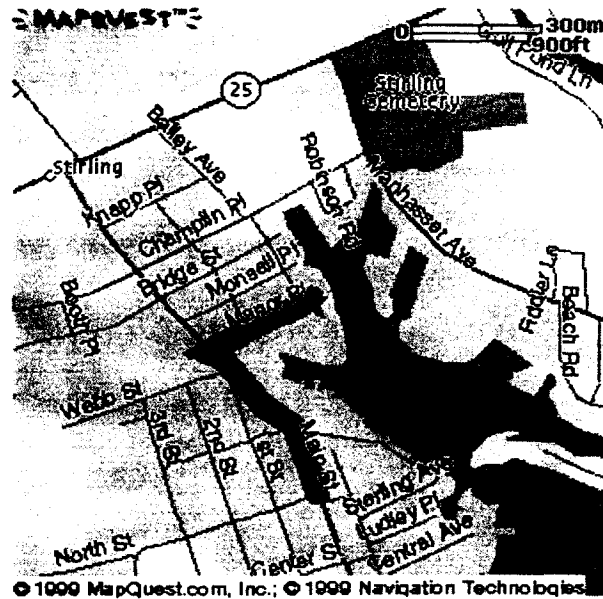
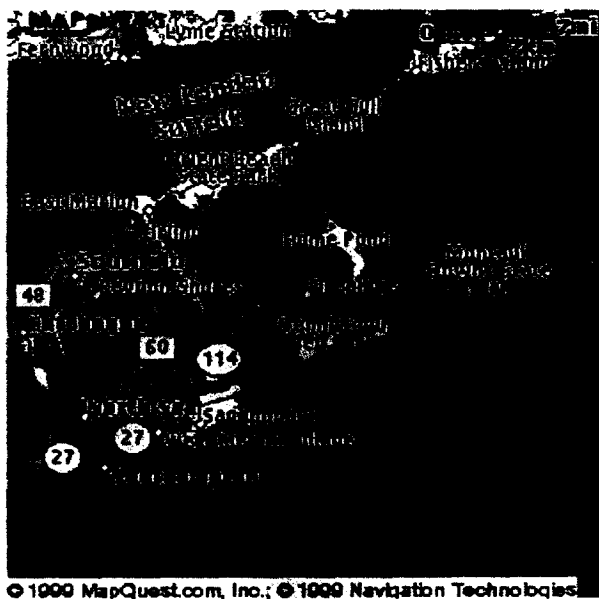


Figure 1: Eastern Long Island Hospital Location

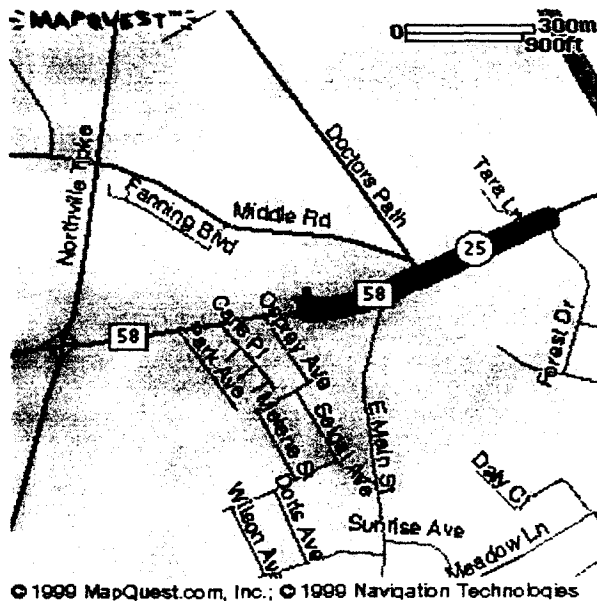


Figure 2: Queens-Long Island Medical Center Location

**Safety Briefing Checklist
(Check Subjects Discussed)**

Site Name: The Former Camp Hero, Montauk, New York

Date/Time: 12/19/20 9:00 AM

General Information

✓ Purpose of Visit
✓ Identify Key Site Personnel
✓ Training and Medical Requirements

Specific Information

✓ Site Description / Past Uses
✓ Results of Previous Studies
✓ Potential Site Hazards
✓ OE Safety Procedures
✓ Site SOPs
✓ Site Control and Communications
☒ Emergency Hand Signals
✓ Emergency Response
☒ Location of First Aid Kits
☒ Emergency Phone Numbers and Location
☒ Location of Nearest Medical Facility and Location of Map to Facility
NA PPE and Decontamination

Stress the following during the briefing: *If an unanticipated hazardous condition arises, stop work, evacuate the immediate area, and notify the CEHNC.*

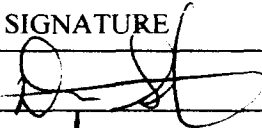
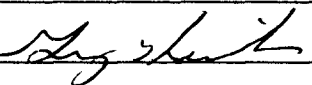
Plan Acceptance Form

Abbreviated Site Safety and Health Plan

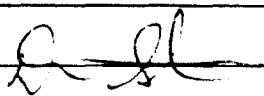
For

The Former Camp Hero, Montauk, New York

I have read and agree to abide by the contents of the Site Safety and Health Plan and I have attended the Safety Briefing for the aforementioned site.

NAME	OFFICE	SIGNATURE	DATE
DON SILKBAKEN	ATLANTA		12/19/00
M.E. SHORT	PASADENA		12/19/00
Greg Hedrick	Atlanta		12/19/00
EDWARD BELEW	HANESVILLE GA		

Person Presenting the Safety Briefing:

			12/13/00
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**SCOPE OF WORK
FOR
ORDNANCE AND EXPLOSIVE (OE)
ENGINEERING EVALUATION/COST ANALYSIS (EE/CA)
AT
CAMP HERO, MONTAUK, NEW YORK
(Project Number CO2NY002404)
A FORMERLY USED DEFENSE SITE
7 November 2000**

1.0 BACKGROUND AND OBJECTIVE

1.1 The objective of this delivery order is for the Contractor to prepare an Engineering Evaluation/Cost Analysis (EE/CA) report. The report shall allow and document meaningful stakeholder participation that

- ◆ characterizes ordnance and explosives (OE) nature, location and concentration.
- ◆ provides a description of the OE related problems affecting human use of the site.
- ◆ that identifies and analyzes reasonable risk management alternatives.
- ◆ provides a convenient record of the process for use in final decision making and judicial review, if necessary.

The Contractor is expected to use geophysical techniques to identify anomalies in the subsurface for subsequent OE sampling. The Contractor shall conduct OE sampling and dispose of any uncovered UXO and dispose of the UXO and other scrap uncovered during the OE sampling effort.

1.2 OE is a safety hazard and may constitute an imminent and substantial endangerment to site personnel and the local population. This action will be performed in a manner consistent with the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), Sections 104 and 121; Executive Order 12580; and the National Contingency Plan (NCP). All activities involving work in areas potentially containing unexploded ordnance hazards shall be conducted in accordance with CEHNC, USACE, DA and DoD requirements regarding personnel, equipment and procedures. 29 CFR 1910.120 shall apply to all actions taken at this site.

1.3 The work required under this Scope of Work (SOW) falls under the Defense Environmental Restoration Program (DERP) and the Formerly Used Defense Site (FUDS) program. Ordnance and Explosives (OE) may exist on property that was formerly owned, used or controlled by the Department of Defense. The framework underlying this response is the National Contingency Plan (NCP).

1.4 Others will accomplish the Archeological Survey to identify potential archeological sites. The Government will provide this survey for the Contractor to consider in preparing the Work Plan. The Contractor shall provide awareness training to all personnel involved with fieldwork, as outlined in the approved Work Plan. The archeological survey includes all areas that will be (or potentially could be) subjected to ground disturbing of any form which may require examination by qualified archeologists (provided by the Government). This will ideally take place prior to any ground disturbing taking into consideration safety issues and approval by the USACE OE Safety Specialist. Note on EECAs, the Huntsville Safety Specialist is not on site full time, only to initiate the field work. The location of archeological sites is confidential. Site locations will be provided to the Contractor for planning purposes. The Contractor will not disclose locations of archeological sites. The contractor shall refer all questions to the New York District PM, Mr. David Brouwer. A Government Archeologist will provide the Contractor with a briefing on cultural resources related to the project area. No Contractor personnel will remove any artifacts or bones from the property subject to penalties under federal law. The Government Archeologist will brief the Contractor accordingly. Archeological surveys may be performed in conjunction with field work performed by the Contractor. Efforts will be made, if safety allows, to re-locate UXO away from archeological sites. If detonation in-situ is necessary, Government Archeologists will examine the area post-disposal to record any possible damage to archeological sites. This site involves resources that are potentially eligible for listing in the National Register of Historic Places. Work shall comply with the National Historic Preservation Act. If any items of a historical nature are found with the exception of UXO, that item will be turned over to the SHPO.

1.5 Others will identify endangered/threatened species of concern. The Government will provide information

that identifies areas of concern. The Contractor shall consider this information in preparing the Work Plan. The Contractor shall provide awareness training to all personnel involved with the field investigation.

2.0 INTRODUCTION

2.1 Background. Former Camp Hero site lands are located on the extreme eastern tip of the south fork of Long Island, New York, approximately five (5) miles east of the Village of Montauk. The former site is bounded by Montauk Highway (Route 27) to the north, the Atlantic Ocean to the south, Montauk Point State Park to the east, and an undeveloped nature preserve owned by the state to the west.

On or about 26 August 1941, the Secretary of War determined that a military necessity existed for the acquisition of this site consisting of approximately 469 acres of land. The site was named Camp Hero and was to be used as a harbor defense installation.

Based on this necessity and 1941 Harbor Defenses of Long Island Sound modernization program guidelines, three (3) batteries and supporting facilities were constructed at Montauk Point (Camp Hero). Battery 112 contained two (2) 16-inch casemated guns, Battery 113 contained two (2) 16-inch casemated guns, and Battery 216 contained two (2) 6-inch shielded guns. Support facilities were also constructed consisting of barracks, mess halls, hospital facilities, administrative facilities, a motor repair shop, a recreation facility, sentry boxes, and water supply and sewerage facilities to accommodate 600 enlisted men, 37 officers, and their required equipment.

Projected future use of the former Camp Hero lands by the state includes opening the site for public uses that could include hiking, fishing, and lodging (in the form of cabins for rent). Some of the historic structures may also be renovated for public touring.

2.2 Not used.

2.3 Chemical Warfare Material (CWM). It is not likely that this site would contain Chemical Warfare Material (CWM). However, if suspect CWM is encountered during any phase of site activities the Contractor shall withdraw upwind from the work area, secure the site and contact CEHNC.

2.4 Areas To Be Evaluated. (Note, the contractor shall propose additional areas be included if warranted during the course of this work). The areas identified below are to be evaluated under this SOW. Evaluation efforts shall be completed in cooperation with project stakeholders. Project stakeholders include the landowners, the Government, interested regulatory agencies, and others that may be identified prior to work plan finalization. The total acreage for this site is approximately 757,005 acres, which includes a 756,492-acre offshore firing area. The ordnance in the offshore area is not a concern since there is no exposure pathway to anyone at the site. Based on the information contained in the Archives Search Report (Date: February 2000), approximately 461 acres of the remaining 514 acres lack confirmed or potential ordnance presence and no DOD action is indicated. Therefore, areas of confirmed ordnance to be investigated are areas H, K, and possibly A as follows:

1. Area A: 0.03 acres, Former Usage: Fire control/37 mm AAA, Current Ownership/usage: State of New York/state park.
2. Area H: 8.0 acres, Former Usage: Ordnance destruction range, Current ownership/usage: State of New York/state park.
3. Area K: 44.88 acres, Former Usage: Near shore ordnance area, Current Ownership/usage: State of New York/state park.

Total Acreage=52.91 more or less

3.0 SPECIFIC REQUIREMENTS

3.1 (Task 1) – Project Planning, Site Visit & Records Review.

3.1.1 (Task 1a) Site Visit & Records Review

The Contractor shall make a site visit, review pertinent records (see Paragraph 6.0) and interview personnel knowledgeable of site conditions. The purpose of this task is to permit the Contractor's staff with direct project responsibility to gain necessary information about site conditions. It is not intended that this task be a "records locating task " where new information is located or developed. Prior to the site visit the Contractor must submit, for Government approval, an abbreviated Site Safety and Health Plan (ASSHP). A qualified UXO specialist must escort site visitors to areas potentially contaminated with OE. The Contractor shall ensure that the site visit is fully coordinated and that all members of the site visit team maintain compliance with the ASSHP. A site visit letter report shall be provided to the Contracting Officer after the site visit.

3.1.2 (Task 1b) Work Task Proposal

The Contractor shall develop a work task proposal (WTP) to describe and plan the accomplishment of the related activities described in this SOW. Prior to initiating work on any task, the Contractor shall submit, for Government concurrence, a WTP. The proposal shall be submitted for Contracting Officer (CO) for review and concurrence. The WTP shall describe the work to be accomplished, recommendations on approach, coordination, organization, methods, personnel, schedule and estimated budget. The WTP shall identify the various elements of the work plans. The WTP is intended to be a brief description of the Contractor's understanding of the proposed work.

3.2 (Task 2) - Geophysical Test Plot.

The Contractor shall design and construct a test plot at the site to test various geophysical methods and equipment in order to establish the methods, equipment and procedures best suited to the site. This task is for mobilizing, constructing, removing and demobilizing the test plot. All other aspects of testing, evaluating and reporting of the geophysical equipment test shall be considered in 3.7 (Task 7).

3.3 (Task 3) Technical Project Planning.

The Contractor shall prepare a technical project-planning document for this project in accordance with EM 200 – 1 – 2 which can be found on the web at <http://www.usace.army.mil/inet/usace-docs/eng-manuals/em.htm>. This effort will be accomplished in four phases. These phases are; Phase I Identify Current Project, Phase II Determine Data Needs, Phase III Develop Data Collection Options, and Phase IV Finalize Data Collection Program. **The goal of this effort is to start the project with all stakeholders agreeing on the end goal.** This task requires the Contractor to schedule and facilitate meetings and provide project worksheets for project team decision points. The Contractor shall provide the following requirements or seek the appropriate input from others. The Contractor shall consider all stakeholder input when developing the project recommendations. The Government will direct the Contractor on any issues not resolved upon task completion. The Government does not expect the length of this document to exceed 30 pages.

3.3.1 Phase I, Identify Current Project & Develop a Conceptual Site Model:

Using whatever past historical information that can be obtained, the Contractor shall identify;

- The decision makers (USACE, land owner(s), regulatory agencies.)
- Project Objectives, which includes the decision makers' perspectives and community needs and interests as it relates or might impact this project.
- Site constraints and dependencies.
- Legal and regulatory constraints.
- Conceptual Site Model (known impact areas, disposal sites, other OE issues; all potential types of UXO expected at the site; geological setting; estimate of maximum probable depth for sampling.)
- Site closeout statement for each land use category or sector as appropriate.

The closeout statement shall consider the current and future land use, current technology can't guarantee a "clean

site", incorporate local initiatives, enlist community support, and encourage recurring reviews. The closeout statement may identify more than one process to achieve site closure but must identify decision points associated with each process alternative.

3.3.2 Phase II, Data Needs:

The Contractor shall identify the data need requirements, intended use of the data, and appropriate sampling and analysis methods, and identify data quality objectives for each data type. Some general types of site data include; 1- physical nature of the site, 2- nature and extent of UXO, 3- regulatory framework, 4- demographics and land use. The Contractor must define the data needs, evaluate the usability of existing data, and identify the data gaps that must be filled. Generally this phase must document:

- "Who" needs the data?
- "What" data is needed?
- "What" project objectives will the data help to satisfy?
- "What" are the intended data uses?
- "What" number of samples is required to satisfy the intended uses?
- "What" are the performance requirements?
- "Where" is the priority/area/location/depth of interest?

3.3.3 Phase III, Data Collection Options:

The Contractor shall develop and document data sampling, gathering and analysis strategies. Items that should be presented include sampling strategy constraints, use of probabilistic or non-probabilistic sampling, and whether we intend to use field screening and analysis techniques. Data types and needs should be categorized as screening data or definitive data. Data quality should be defined for each data type that is based upon the intended use of the data and accepted practices. Once the data "world" is defined for the project each data set shall be classified as "basic" (required data), "optimum" (data would facilitate better decisions and is cost effective to gather), and "excessive" (data would be nice to have but may not be worth the cost to gather the data)

3.3.4 Phase IV, Data Collection Program Design:

The Contractor shall present the data collection program requirements as options and schedules with the budget affects for the various options. Other items such as constraints and uncertainties and regulatory factors must be presented. The Contractor must clearly present the "preferred" data collection plan that ties together the data need requirements, data sampling and analysis methods, and the intended use of the data in satisfying the closeout statements established in Phase I.

3.4 (Task 4) - EE/CA Work Plan.

The Contractor shall prepare an EE/CA Work Plan in accordance with DID OE-001. The Contractor shall include the following aspects in Chapter 10 of the work plan.

Quality Control Plan (QCP) and Quality Assurance, the Contractor shall describe the Contractor's Quality Control and the expected Government's Quality Assurance roles and responsibilities for this project. Note that the Contractor is responsible for developing and implementing only the project QCP. The Government will perform Quality Assurance. However, the plan shall describe both activities. The QCP shall specifically address digital data delivered in the OE GIS data standard format with communications, transmissions and receipt by the various participants. A flow chart may be used to identify the data collection, analysis, storage, transfer and QA/QC process to generate the final dig-sheets. The Contractor shall ensure that the corporate quality policy is understood, implemented, and maintained at all levels in the organization. The Contractor shall propose a system to manage, control, and document the performance of these tasks. The Quality Control Plan shall include:

- Location Surveying and Mapping QC,
- Geophysical QC,
- Data QC: digital data (communications; transmissions and receipt), along with all analog data

(administrative; contractual; survey and geophysical field notes).

- GIS System QC.
- Anomaly reacquisition QC.
- Variance of surface & subsurface influence on geophysical data output across the site.

The most critical component in this project is the geophysical data. The Contractor shall perform continuous tracking, checks, representations, adjustments and visualization of the field data daily for quality control and to establish efficient field procedures. In addition a portion (approximately 2 to 4%) of the site shall be resurveyed and analyzed and compared to the previous results by the Government. The methodology to accomplish the quality control shall be proposed in the WP in accordance with DID OE-005-11, which identifies the minimum QC activities. The QC activities shall be documented and included in the final investigation report.

3.5 (Task 5) - Location Surveys and Mapping.

The Contractor shall perform location surveys as described in the approved Work Plan and in accordance with DID OE-005-07. The Contractor shall supply a minimum base map information which identifies roads and highways, trails, sector boundaries, proposed grid sampling locations, and OE items found in each

3.6 (Task 6) - Establishment and Management of GIS.

The Contractor shall take the GIS Tri-Service Spatial Data Standard data, manual, file, and database structures from the Huntsville Center Ordnance GIS standard and apply it to this project. The standard will be used to create project-specific GIS for the specific OE investigative needs of this site. The GIS shall be assembled and used to direct the daily geophysical investigative activities and to compile and analyze the daily digital data into the GIS. Any changes from the standard shall be proposed to the Contracting Officer with fully documented changes and the reason or benefit of the proposed change. The Contractor shall establish and manage the GIS as described in the approved Work Plan and in accordance with DID OE-005-14.

3.7 (Task 7) Site Characterization.

The Contractor shall characterize the site by implementing the work described in the Project Work Plans. Activities include, but are not necessarily limited to, the following activities:

3.7.1 (Task 7a) Surface Preparation, OE Identification and Removal.

The Contractor shall provide all necessary qualified personnel and equipment to perform surface preparation, as well as surface OE identification, removal and disposal on the sampling grids (total sampling area will be proposed by the contractor, the Government is assuming approximately 50 acres for a basis of estimate) where subsequent site activities are scheduled to occur under this contract. The use of standard vehicles (pickup trucks, four wheel drive jeeps, etc...) may be strictly confined to existing roads. If practicable, OE personnel shall walk from existing roads to sampling grids. Where necessary because of unreasonable distances between roads and grids, small motorized carts (sometimes called gators) with wide rubber tires, minimally knobby treads and inflated to low pressure, may be used. The Contractor shall perform the minimum amount of vegetation clearance necessary to aid in identifying OE and OE scrap or to dispose of UXO where these impede the safety of the geophysical investigation team or other site personnel and activities. Certain plants and any trees two to three inches in diameter or greater shall not be cut for any reason arising from flagging and OE clearance procedures. The outright clearing of perennial vegetation from any tract of land, save the tiny area surrounding an OE item being prepared for demolition in place, may not be allowed. All OE-related activities shall be performed in accordance with applicable sections of the approved work plan

3.7.2 Geophysical Equipment Test and Investigation.

The Contractor shall implement geophysical investigations as described in the approved Work Plan.

3.7.2.1 (Task 7b) Geophysical Equipment Test

The Contractor shall test various geophysical methods and equipment in order to establish the methods, equipment and procedures best suited to the site. During prove out, the Contractor shall coordinate with CEHNC to ensure that a CEHNC representative will be on site for verification and quality assurance. The Contractor shall use the information gathered in this phase of work to evaluate the relative efficiencies of potentially appropriate geophysical investigation procedures. Various procedures must be defined such as, but not limited to, daily equipment standardization, data quality checks and data error resolution process. Afterwards, the Contractor shall propose specific geophysical methods, equipment and personnel appropriate and necessary to accomplish the required geophysical investigations. The results of the test shall be documented in a letter report and submitted to the Government for concurrence. The Contractor shall incorporate the appropriate methods and equipment into the work plan once Government concurrence is received.

3.7.2.2 (Task 7c) Investigation.

The total cumulative area to be geophysically investigated and evaluated under this SOW shall be proposed in the work task proposal by the contractor (the Government assumes approximately 50 acres for basis of estimate.) The size and distribution of the individual grids and/or meandering paths shall be proposed by the contractor and approved by the Government. Actual number and location of grids and/or meandering paths may increase or decrease based upon conditions encountered in the field, if so directed by the Contracting Officer. All aspects of anomaly evaluation, selection, and dig-sheet production shall be routinely reported in a weekly status report per DID OE-085. See Section 4.0 for additional reporting requirements and schedule.

3.7.2.2.1 Evaluation.

After the site is geophysically mapped, the Contractor shall utilize a qualified geophysicist to check and evaluate the geophysical data collected. The geophysicist shall make a professional determination regarding the identification of anomalies at the site. Based on this determination, the Contractor shall provide a "dig-sheet" showing predicted location and character of all suspected anomalies to the CEHNC Project Manager. In addition, the Contractor shall continually compare predicted results with actual results so that the Contractor's geophysical evaluation methodology is constantly refined over the life of the project.

3.7.2.2.2 Anomaly Selection.

Note that not all geophysical anomalies meeting the criteria to be considered a potential UXO will be dug. Representative anomalies will be excavated in order to characterize geophysical anomalies and to provide information necessary to estimate location, concentration and nature of UXO present at the site. The Contractor shall propose methodology for selection of anomalies to be excavated. This might be based on OE calculator, percentages of anomalies, a specific number of excavations, anomaly apparent size, work-days, statistical approaches, or some other approach or combination of approaches. Also, the approach for individual anomalies might differ from the approach used for pits/trenches. Generally the Government expects more anomalies selected for sampling at the beginning of the effort with the amount of samples selected for digging reduced over the duration of the sampling effort. The particular approach for this project shall be described in the work plan.

3.7.2.2.3 Data Format and Storage.

The Contractor shall utilize an appropriate data format and storage system for geophysical mapping data that is consistent with CEHNC computer/CADD systems in accordance with DID OE-005-05 and as described in the approved WorkPlan. In addition the Contractor shall maintain the data in such a way that the Government can remotely access any individual file or multiple files as necessary without day or time restrictions. See Section 4.0 for additional data requirements.

3.8 (Task 8)-Intrusive Investigations (OE Sampling).

The Contractor shall, utilizing qualified personnel, implement site OE sampling as specified in the approved work plan. All aspects of the activities related to this task shall be reported in a weekly field activity report including

DRMO turn in forms. This task shall be accomplished as follows:

3.8.1 OE Access, Evaluation and Management.

The Contractor shall, utilizing qualified personnel, implement site OE sampling as described in the approved Work Plan. The Contractor shall provide all necessary qualified personnel and equipment to perform surface and subsurface OE access, evaluation and management.

3.8.2 Accessing Anomalies.

The Contractor shall investigate anomalies identified by the geophysical investigations and as directed by the Contracting Officer. The Contractor shall, using qualified UXO personnel, determine whether the OE can be moved or destroyed in-place. This is a safety-driven decision that will be based solely on DoD munitions safety standards and requirements. Fuzed OE shall not be moved and shall be blown in place.

3.8.3 OE Destruction.

The Contractor shall be responsible for the destruction, if required, of all OE including UXO and scrap encountered during site investigations and characterizations utilizing qualified personnel and in accordance with all aspects of the project Work Plan. The Contractor shall establish in the Work Plan a method of disposal, if required, for all OE.

3.8.4 Backfilling Excavations.

All access/excavation/detonation holes shall be backfilled by the Contractor. The Contractor shall restore such areas to their prior condition.

3.8.5 OE Accountability.

The Contractor shall maintain a detailed accounting of all OE items/components encountered. This accounting shall include the amounts of OE, the identification and condition, depth located, disposition and location. The accounting system shall also account for all demolition materials utilized to detonate OE on-site. This accounting shall be a part of an appendix to the EE/CA report.

3.8.5.1 DD Form 1348-1A.

The Contractor shall complete a DD Form 1348-1A as turn-in documentation. Instructions for completing this form are contained in the Defense Utilization and Disposal Manual, DoD 4160.21-M. The Senior UXO Supervisor and UXO QC Specialist shall sign a certificate as follows:

"This certifies and verifies that the AEDA residue, Range Residue and/or Explosive Contaminated property listed has been 100 percent properly inspected and to the best of our knowledge and belief, are inert and/or free of explosives or related materials."

DRMO turn-in documentation receipts shall be submitted as an appendix to the EE/CA Report.

3.8.5.2 UXO Quality Control (QC) Specialist.

UXO QC shall be a separate function and is not envisioned as a full-time position. The UXO QC Specialist shall meet the minimum prerequisites of a Senior UXO Supervisor and have the training, knowledge and experience necessary to implement the Contractor's QC plan as outlined in DID OE-025. The Contracting Officer must approve any exceptions.

3.8.6 Quality Assurance Sampling Areas.

In order to evaluate the effectiveness of the geophysical investigation and evaluation methods utilized by the Contractor, the Contracting Officer may direct an independent contractor provided by the Government or Government personnel to independently map, locate and access some detected subsurface anomalies as deemed

necessary.

3.9 NOT USED

3.10 (Task 9) Prepare Institutional Analysis, Impact Analysis and EE/CA Report.

3.10.1 (Task 9a) Institutional Analysis

The Contractor shall perform an institutional analysis, using as much of the existing data collected for the TPP process, in accordance with DID OE-100. This report, which should be submitted in draft form for review by the Government, with the final report included in the EE/CA Report, will be a brief report presenting site conditions, in relation to ownership, zoning, future development plans (including replenishment) and Local and State participation in planning activities.

3.10.2 (Task 9b) Impact Analysis.

The Contractor shall refine the Qualitative Impact Analysis (QIA) model CEHNC developed for the Jefferson Proving Ground EE/CA to determine the base line public exposure and the predicted risk reduction for the selected risk reduction option for any areas recommended for removal action as a result of the EE/CA. These refinements may include but are not limited to developing numerical scales (i.e., rather than using qualitative terms) and adapting the QIA model to address site-specific conditions at the site. These refinements will be provided CEHNC for approval before use. Although OECert will not be used for this task, the Contractor shall write a risk report in accordance with the OECert Standing Operating Procedure that supports the EE/CA report and that determines the base line public exposure and the resultant public exposure for each alternative under consideration.

3.10.2.1 Site UXO Statistical Report. As part of the risk evaluation report the Contractor shall write a statistical report that shows how the UXO densities were determined. The Contractor may use the current version of "UXO "Calculator" software which may be provided by the CEHNC Project Manager. Other statistical approaches may be used, if approved by the Contracting Officer.

3.10.3 (Task 9c) EE/CA Report

The Contractor shall prepare and submit an EE/CA report, per DID OE-010 fully documenting the field work and subsequent evaluations and recommendations made by the Contractor. The textual portions of the report shall be fully supported with accompanying maps, charts, and tables as necessary to fully describe and document all work performed and all conclusions and recommendations presented.

3.11 (Task 10) Prepare Action Memorandum.

The Contractor shall, based upon close consultation with the Contracting Officer, prepare an Action Memorandum in accordance with applicable CEHNC guidance documents.

3.12 (Task 11) Community Relations Support.

The Contractor shall plan to attend and participate in three (3) public meetings as directed by the Contract Officer. Additional meetings may be added by modifications to this task order. The support shall include preparation and delivery of briefings, graphics and presentations, and participation in site visits. The actions are independent of the field activities that involve interaction with the community.

3.13 (Task 12) Meetings and Project Management

The Contractor shall perform project management functions, as necessary to maintain project control and to meet required reporting requirements. The contractor shall plan on 4 meetings at CENAN and 2 status meetings in Huntsville. These meetings are in addition to public meetings under Task 11.

3.14 (Task 13) Project Documentation Project documentation will be given to the contractor quarterly to scan onto CDs. This scanning is in addition to any documents that the contractor produces. The documentation will

consist of but not be limited to all project correspondence both formal and email, contracts, modifications, and deliverables of all types. The purpose is to have a set of CDs at the end of the project that can be sorted to search for any document created on this project. The contractor shall propose in the work task proposal an estimate of pages that will be scanned based on past projects plus a unit price for any pages required about the estimate.

4.0 SUBMITTALS AND CORRESPONDENCE

4.1 Format and Content of Engineering Reports.

Engineering Reports presenting all data, analyses, and recommendations shall be prepared and submitted by the Contractor. All drawings shall be of engineering quality in drafted form with sufficient detail to show interrelations of major features. The contents and format of the engineering reports shall be arranged in accordance with all pertinent guidance documents. When drawings are required, data may be combined to reduce the number of drawings. Reports shall consist of 8-1/2 inch by 11-inch pages with drawings other than the construction drawing folded, if necessary, to this size. A decimal paragraphing system shall be used, with each section and paragraph of the reports having a unique decimal designation. The report covers for each submittal shall consist of durable 3-ring binders and shall hold pages firmly while allowing easy removal, addition, or replacement of pages. A report title page shall identify the site, the Contractor, the Corps of Engineers District, Huntsville Center, and the date. The Contractor identification shall not dominate the title page. All data, including raw analytical and electronic data, generated under this delivery order are the property of the DoD and the government has unlimited rights regarding its use.

4.2 Computer Files.

All final text files generated by the Contractor under this contract shall be furnished to the Contract Officer in MS Word 6.0 or higher software, IBM PC compatible format. All final CADD/GIS data, design drawings and survey data generated by the Contractor under this delivery order shall be submitted in the proper format and media that will permit their loading, storage, and use without modification or additional software on the Huntsville Center CADD/GIS workstations.

4.3 HTML Deliverables.

In addition to the paper and digital copies of submittals identified above, the final version of the EE/CA and the Action Memorandum shall be submitted, uncompressed, on one floppy disk or CD ROM in hypertext markup language (HTML) along with a linked table of contents, linked tables, linked photographs, linked graphs and linked figures included and suitable for viewing on the Internet.

4.4 Review Comments.

Various reviewers will have the opportunity to review submittals made by the Contractor under this contract. The Contractor shall review all comments received through the CEHNC Project Manager and evaluate their appropriateness based upon their merit and the requirements of the SOW. The Contractor shall issue to the Project Manager a formal, annotated response to each in accordance with the schedule in paragraph 4.13

4.5 Draft Reports.

Each page of draft reports shall be stamped "DRAFT". Submittals shall include incorporation and notation of all previous review comments accepted by the Contractor.

4.6 Identification of Responsible Personnel.

Each report shall identify the specific members and title of the Contractor's staff and subcontractors that had significant, specific input into the reports' preparation or review. All final submittals shall be sealed by the registered Professional Engineer-In-Charge.

4.7 Minutes of Meetings.

Following the presentation, the Contractor shall prepare and submit minutes of all meetings attended to the Contract Officer or his representative within 10 calendar days .

4.8 Correspondence.

The Contractor shall keep a record of each phone conversation and written correspondence affecting decisions relating to the performance of this IDO. A summary of the phone conversations and written correspondence shall be submitted with the monthly progress report to the Contract Officer.

4.9 Project Control and Reporting.

The Contractor shall prepare and submit a master network schedule (using Microsoft "Project" software), cost and manpower plan, monthly progress reports, technical progress reports, monthly individual performance reports and cost/schedule variance report, work task proposal plan, and a program control plan.

4.10 Monthly Status Report.

The Contractor shall prepare and submit a monthly status report according to DID OE-080 describing the work performed since the previous report, work currently underway and work anticipated. This report shall show the earned value curves for the amount of funds obligated, planned and actually spent to date on the project. This will allow the continuous tracking of the actual cost versus the proposed cost at the beginning of the project. The report shall state whether current work is on schedule. If the work is not on schedule, the Contractor shall state what actions are anticipated in order to get back on-schedule. The report shall be submitted not later than the 10th day of the following month.

4.11 Public Affairs.

The Contractor shall not publicly disclose any data generated or reviewed under this contract. The Contractor shall refer all requests for information concerning site conditions to the local Corps District's Public Affairs Office, with a copy furnished to the CEHNC Project Manager. Reports and data generated under this contract are the property of the DoD and distribution to any other source by the Contractor, unless authorized by the Contract Officer, is prohibited.

4.12 Addresses.

The following addresses shall be used in mailing submittals:

ADDRESSEE	QUANTITY
Commander US Army Corps of Engineers, Huntsville Center ATTN: CEHNC-OE-DC (Roland Belew) P.O. Box 1600 Huntsville, Alabama 35807-4301	6
Commander U.S. Army Corps of Engineers, New York District ATTN: CENAN-PP-E(Luz Spann-LaBato)State Highway 18, Turnpike Metroplex Building, Suite 205 East Brunswick, NJ 08816	10
Names and addresses to be determined at a later date	20

4.13 Schedule and Submittals.

The Contractor shall submit all deliverable data to the Contract Officer and other reviewers shown in Paragraph 4.12 in accordance with the following schedule. All submittals shall be delivered to all addressees no later than the close of business on the day indicated in this paragraph. In addition, submittals to regulatory reviewers shall be shipped by registered mail or other method where a signed receipt is obtained indicating the date received and the individual accepting the submittal.

DOCUMENT	DATE DUE
WTP	20 Days after NTP
ASSHP	Prior to site visit
Site Visit Letter Report	3 working days after site visit
Draft Geophysical Test Plot Plan	35 days after NTP
Final Geophysical Test Plot Plan	10 days after receipt of Gov. comments
TPP Phase I & II Partnering Meeting	TBD
TPP Phase I Worksheet(s)	14 days after site visit
TPP Phase II Worksheet(s)	14 days after site visit
TPP Phase III & IV Partnering meeting	TBD
TPP Phase III Summary Table(s)	14 days after receipt of GOV comments on Phase I & II worksheets
TPP Phase IV Data Collection Program Design	14 days after receipt of GOV comments on Phase III Summary Table(s).
TPP Final Meeting	TBD
EE/CA Work Plan, Draft	45 days after receipt of GOV comments on TPP Phase IV
EE/CA Work Plan, Draft Final	10 working days after receipt of Gov. comments
Geophysical Equipment Test Report	2 working days after field test
EE/CA Work Plan, Final	5 working days after Geo. Equipment Test Report
Government Grants approval to commence field work.	TBD
Weekly Field Report *	Every Monday for the previous week
Monthly Progress Report	NLT 10 th of the following month
EE/CA Report, Draft	TBD
EE/CA Report, Final	TBD
Draft Action Memorandum	TBD
Public Meeting	TBD
Final Action Memorandum & Responsiveness Summary	TBD
Project Meeting, Alabama	TBD
Project Meeting, New York	TBD
Minutes of Meetings	NLT 10 days after each meeting

The overall completion date of this delivery order is TBD.

5.0 SAFETY AND HEALTH PROGRAM

The Contractor shall develop and maintain a Health and Safety Program (HSP) in compliance with the requirements of OSHA standards 29CFR1910.120(b)(1) through (b) (4). The Contractor shall provide written certification the HSP has been submitted to the CO and make the HSP available upon request by the Government. The SSHP required by 29CFR1910.120(b)/29CFR1926.65(b)(4), and as defined by DID OE-005-06, shall be prepared and

submitted with the Work Plan for approval. On-site activities shall not commence until the plan has been reviewed and accepted. The Contractor's Site Safety and Health Officer (SSHO) shall have the training, knowledge and experience necessary to implement the SSHP and have the same minimum qualifications as an UXO Supervisor.

6.0 REFERENCES.

- 6.1 National Contingency Plan, 40 CFR 300.
- 6.2 Federal Acquisition Regulation, F.A.R. Clause 52.236-13: Accident Prevention.
- 6.3 Army Corps of Engineers Safety and Health Requirements Manual, EM-385-1-1, 3 September 1996.
- 6.4 Not used.
- 6.5 Occupational Safety and Health Administration (OSHA) General Industry Standards, 29 CFR 1910 and Construction Industry Standards, 29 CFR 1926; especially 1910.120/29CFR1926.65-"Hazardous Waste Site Operations and Emergency Response."
- 6.6 NIOSH/OSHA/USCG/EPA, "Occupational Safety and Health Guidance Manual for Hazardous Waste Site Activities", October 1985. (DHHS(NIOSH) Publication No. 85-115).
- 6.7 CEHNC 1115-3-86, "Ordnance and Explosives Cost-Estimating Risk Tool (OECert) Standing Operating Procedure (SOP)", November 1996.
- 6.8 Not used.

**The following references are available on the CEHNC Web Page at
<http://www.hnd.usace.army.mil/oew/policy/dids/didindx.html>**

6.9 Not Used.

- 6.10 CEHNC Data Item Description OE-001 000303 Type I Work Plan
- 6.11 CEHNC Data Item Description OE-005-02 000303 Technical Management Plan
- 6.12 CEHNC Data Item Description OE-005-03 000303 Explosives Management Plan
- 6.13 CEHNC Data Item Description OE-005-04 000303 Explosives Siting Plan
- 6.14 CEHNC Data Item Description OE-005-05 000303 Geophysical Mapping Plan
- 6.15 CEHNC Data Item Description OE-005-06 000303 Site Safety and Health Plan
- 6.16 CEHNC Data Item Description OE-005-07 000303 Location Surveys and Mapping Plan
- 6.17 CEHNC Data Item Description OE-005-08 000303 Work, Data, and Cost Management
- 6.18 CEHNC Data Item Description OE-005-09 000303 Property Management Plan
- 6.19 CEHNC Data Item Description OE-005-10 000303 Sampling and Analysis Plan
- 6.20 CEHNC Data Item Description OE-005-11 000303 Quality Control Plan
- 6.21 CEHNC Data Item Description OE-005-12 000303 Environmental Protection Plan
- 6.22 CEHNC Data Item Description OE-005-13 000303 Investigative Derived Waste Plan
- 6.23 CEHNC Data Item Description OE-005-14 000320 Geographical Information System Plan
- 6.24 CEHNC Data Item Description OE-010 000303 Engineering Evaluation/Cost Analysis (EE/CA) Report
- 6.25 CEHNC Data Item Description OE-015 000303 Accidents/Incidents Reports
- 6.26 CEHNC Data Item Description OE-025 000303 Personnel/Work Standards
- 6.27 Not used.
- 6.28 CEHNC Data Item Description OE-040 000303 Disposal Feasibility Report
- 6.29 CEHNC Data Item Description OE-045 000303 Report/Minutes, Record of Meetings
- 6.30 CEHNC Data Item Description OE-055 000303 Telephone Conversation/Correspondence Records
- 6.31 Not used.
- 6.32 CEHNC Data Item Description OE-080 000303 Monthly Status Report
- 6.33 CEHNC Data Item Description OE-085 000303 Weekly Status Report
- 6.34 Not used.
- 6.35 CEHNC Data Item Description OE-100 000303 Analysis of Institutional Controls

7.0 GOVERNMENT-FURNISHED.

ATTACHMENT 4
USACE PROJECT FACT SHEET

PROJECT FACT SHEET
FORMERLY USED DEFENSE SITE
February 2000

SITE NAME: Camp Hero

SITE NUMBER: C02NY0024

LOCATION:

CITY: MONTAUK
COUNTY: SUFFOLK
STATE: NEW YORK

PROJECT NUMBER: C02NY002403

CATEGORY: OE

2. **POC:**

GEO DIST POC:
NAME: David Brouwer
OFFICE: CENAN-PP-E
PHONE: (908) 435-0079

TECHNICAL MANAGER:
NAME:
OFFICE: CEHNC-OE-PM
PHONE:

GEO DIV POC:
NAME:
OFFICE: CENAD
PHONE:

HEADQUARTERS POC:
NAME:
OFFICE: CEMP-RF
PHONE:

3. **SITE DESCRIPTION**

a. Former Camp Hero site lands are located on the extreme eastern tip of the south fork of Long Island, New York, approximately five (5) miles east of the Village of Montauk. The former site is bounded by Montauk Highway (Route 27) to the north, the Atlantic Ocean to the south, Montauk Point State Park to the east, and an undeveloped nature preserve owned by the state to the west.

b. Camp Hero consisted of approximately 468.69 acres of land that was purchased by the War Department for the Department of the Army in 1942 to serve as a Coastal Defense Installation. An additional .03 acres was gained through use agreement to serve as a fire control and 37mm

antiaircraft artillery station during the coastal defense era. Practice firing by Army coastal defense guns, and later firing by Army antiaircraft artillery units, resulted in an additional land and ocean usage of 756,536.63 acres; a 756,491.75 acre off shore ordnance area and a 44.88 acre near shore ordnance area.

c. Site lands rise abruptly from the Atlantic Ocean to the south and then gradually slope northward. Several high points are in the area, and in general the land contour consists of numerous ridges and depressions. Most of the general topography drains into swamps, situated throughout the area. There are also approximately 5,500 feet of man-made drainage ditches on the site. The entire site, with the exception of the developed structures, roadways, swampy areas, oceanfront, and southern site bluffs, is covered with a dense growth of scrub oak and brush.

d. The climate of the Montauk area is broadly representative of the humid continental type which prevails in the Northeastern United States. The average annual temperature is 52.2 degrees Fahrenheit (F). In the summer months (June through August), the daily average is 71.1 degrees. The record high was 101 degrees in July of 1991. In the winter months (December through February), the average is 30.9 degrees. The record low was -7 degrees in January of 1988. The average yearly rainfall is 46.07 inches, with most falling in March, April, and August. The average yearly snowfall is about 29 inches, with most falling December through March. Coastal low-pressure systems, Northeasters, are the principal source of this snow.

e. Presently, the major portion of former site lands serve as a New York State Park which is fenced and predominately restricted from public use, with the exception of the southern site bluff area. This is an area in which controlled access is provided to the beach for surf fishing. Pedestrians from the oceanfront may access the oceanfront and bluff area without a barrier preventing entry. Security patrols by park personnel occur daily through the majority of site lands.

f. Most of the remaining former military buildings on the site are unoccupied structures in various states of disrepair. Two of the former military buildings remain in use: a maintenance shop (utilized by State Park Service personnel) and a residence (occupied by a New York State Park Police Officer).

g. Several state and federal endangered, threatened, and rare species occupy site lands.

h. There are archeologically sensitive areas and National Register of eligible historical structures on former Camp Hero lands. **Any** actions taken within subject area may require oversight by the New York Historic Preservation Bureau. This office should be contacted prior to the conduct of any remediation.

i. Projected future use of the former Camp Hero lands by the state includes opening the site for public uses that could include hiking, fishing, and lodging (in the form of cabins for rent). Some of the historic structures may also be renovated for public touring.

4. **SITE HISTORY**

a. On or about 26 August 1941, the Secretary of War determined that a military necessity existed for the acquisition of approximately 468.666 acres of land at Montauk, Long Island, New York (later to be named Camp Hero), to be used as a site for an approved harbor defense installation. Land for this installation was purchased and petitioned for military availability on 13 January 1942, with 468.69 acres fee acquired.

b. Based on this necessity and 1941 Harbor Defenses of Long Island Sound modernization program guidelines, three (3) batteries and supporting facilities were constructed at Montauk Point (Camp Hero). Battery 112 contained two (2) 16-inch casemated guns, Battery 113 contained two (2) 16-inch casemated guns, and Battery 216 contained two (2) 6-inch shielded guns. Support facilities were also constructed consisting of barracks, mess halls, hospital facilities, administrative facilities, a motor repair shop, a recreation facility, sentry boxes, and water supply and sewerage facilities to accommodate 600 enlisted men, 37 officers, and their required equipment.

c. On 2 May 1942, the Adjutant General of the Army designated the seacoast defense installation in the vicinity of Montauk, New York, as Camp Hero, in honor of Major General Andrew Hero. Major General Hero was the Chief of Coast Artillery during the 1920's.

d. On 10 August 1942, the Secretary of War designated Battery 113, at Camp Hero, as Battery Dunn in honor of the late Colonel John M. Dunn.

e. Upon completion of the batteries and the delivery of the battery guns between 5 June 1943 and 12 January 1944, Camp Hero began serving in a harbor defense capacity, defending the eastern tip of Long Island and waterways leading to New York City, Providence, Rhode Island, and New Haven, Connecticut. Camp Hero was a sub-installation of the 11th Coast Artillery Regiment (Harbor Defense) located at Fort H.G. Wright, Fischers Island, Block Island Sound, New York. Fort H.G. Wright was under the control of the Eastern Defense Command. Elements from the 11th Coast Artillery Regiment, along with elements from the 242nd Connecticut National Guard Coast Artillery Regiment (Harbor Defense), which augmented the 11th Coast Artillery Regiment at Fort H.G. Wright, manned Camp Hero.

f. On 31 July 1947, Camp Hero was placed in an inactive status. During the period of coastal defense operations at Camp Hero, the 6-inch and 16-inch guns of Camp Hero were fired occasionally in practice, never in hostility.

g. Effective 31 December 1949, Camp Hero was declared excess to the needs of the Department of the Army. This was based on the discontinuation of harbor defense sites. Also on 31 December 1949, authorization for the transfer of a portion of Camp Hero lands to the Department of the Air Force was granted, based on an Air Force requirement for an aircraft control and warning station at that location.

h. On 24 January 1951, Camp Hero was withdrawn from excess status and designated a Class I sub-installation of Fort Totten, New York. The site was then used as a firing range and field exercise area for Fort Totten antiaircraft artillery (AAA) units located in the vicinity of New York. Training of Fort Totten AAA units continued until 1957. Weapon systems fired by these units included 90mm guns, 120mm guns, .50 caliber machine guns, and 3.5-inch rockets, all fired from three firing points on the southern bluffs of Camp Hero into the Atlantic Ocean .

i. U.S. Air Force activity began at Camp Hero on 27 November 1950, when the 773rd Aircraft Control and Warning Squadron (ACWS), an entity under the command of the Eastern Air Defense Force, was activated at Camp Hero. Then, upon completion of Squadron facilities around 6 February 1952, the Air Force property was renamed the Montauk Air Force Station (MAFS), at which time 773rd ACWS was reassigned to the 26th Air Division (AD). The 773rd was assigned the responsibility by the 26th AD of operating an Air Defense Direction Center, with a mission of providing radar

) surveillance for the detection, identification, and interception of all aircraft entering it's area of responsibility. Construction at the MAFS included the building, or modification of Army buildings, of billeting, administrative, station support, and required radar facilities to perform their mission and accommodate a station compliment of approximately sixteen (16) officers and 160 airmen.

j. Effective 31 December 1957, the remaining Army portion of Camp Hero land was placed in an inactive status.

k. On 8 January 1958, the 773rd ACWS was assigned to the New York Air Defense Sector (NYADS) in preparation for a change of mission. The 773rd would take it's place as a link in the new SAGE (Semi-Automatic Ground Environment) system. The SAGE system provided for the automatic transmission of radar data and the utilization of a centralized electronic computer system (at McGuire Air Force Base for NYADS) to furnish to the improved tracking and weapon handling resources the data required to cope with air raids by the enemy.

l. On 1 October 1958, the 773rd ACWS was redesignated as the 773rd Radar Squadron (SAGE) and acquired their new mission. In order to accomplish this mission, a technically advanced AN/FPS-35 Specific Frequency Diversity Search Radar Unit was built at the MAFS, and became operational in December 1960.

m. On 1 July 1980, the major mission of the Montauk Air Force Station was drastically reduced, leaving only five personnel to operate a ground-to-air radio station. Then in 1982, all activities at the station terminated.

n. From 18 July 1974 to 10 September 1984, site lands were transferred (with the exception of .86 acres) to State, Local Government, and Federal Agencies. 415.35 acres were transferred to the State of New York in three transactions, 46.19 acres to the Town of East Hampton in three transactions, and 6.29 acres to the Department of Transportation (U.S. Coast Guard) in two transactions. This left an unresolved Camp Hero real estate balance of .86 acres, which is noted on final real estate maps. This was probably attributed to poor survey techniques at the time of land procurement or erosion.

o. The major portion of project lands, since their release from Department of Defense control, remain as limited access public park land. The predominant portion of

the land is New York State owned, under the control of the New York State Parks Commission. The remaining local government interests includes a East Hampton Town controlled low income housing area, which consists of 27 former Air Force housing units, and a small amount of East Hampton Town owned undeveloped property. The U.S. Coast Guard owns 7.5 acres of former site lands, where they operate a LORANS-C station. Plans for predominately unrestricted public access to New York State Lands, once any former military hazards are removed, are being contemplated at this time. Controlled public access is now allowed to fisherman on the southern bluff area of the site.

5. PROJECT DESCRIPTION:

Area A:

Size, Acres:	.03
Former Usage:	Fire Control/37mm AAA Station (Additional Lands)
Present Usage:	State Park
Probable End Usage:	Same
Ordnance Presence:	None
Type Ordnance:	Not Applicable
Risk Assessment:	5

Area B:

Size, Acres:	2.90
Former Usage:	Battery 216
Present Usage:	State Park
Probable End Usage:	Same
Ordnance Presence:	None
Type Ordnance:	Not Applicable
Risk Assessment:	5

Area C:

Size, Acres:	5.80
Former Usage:	AAA Firing Area
Present Usage:	State Park
Probable End Usage:	Same
Ordnance Presence:	None
Type Ordnance:	Not Applicable
Risk Assessment:	5

Area D:

Size, Acres:	11.00
Former Usage:	AAA Battalion Bivouac Area
Present Usage:	State Park
Probable End Usage:	Same
Ordnance Presence:	None
Type Ordnance:	Not Applicable
Risk Assessment:	5

Area E:

Size, Acres:	1.80
Former Usage:	Battery 113 (Dunn)
Present Usage:	State Park
Probable End Usage:	Same
Ordnance Presence:	None
Type Ordnance:	Not Applicable
Risk Assessment:	5

Area F:

Size, Acres:	2.23
Former Usage:	Battery 112
Present Usage:	State Park
Probable End Usage:	Same
Ordnance Presence:	None
Type Ordnance:	Not Applicable
Risk Assessment:	5

Area G:

Size, Acres:	.60
Former Usage:	Makeshift Small Arms Firing Range
Present Usage:	State Park
Probable End Usage:	Same
Ordnance Presence:	None
Type Ordnance:	Not Applicable
Risk Assessment:	5

Area H:

Size, Acres:	8.00
Former Usage:	Ordnance Destruction Range
Present Usage:	State Park
Probable End Usage:	Same
Ordnance Presence:	Confirmed
Type Ordnance:	High Explosive Projectiles, Projectile Fuzes, 17-23 Pound Fragmentation Bombs, 3.5-Inch High Explosive and Practice Rockets, Small Arms Ammunition.
Risk Assessment:	1

Area I:

Size, Acres:	1.00
Former Usage:	Target Plane Launching Area
Present Usage:	State Park
Probable End Usage:	Same
Ordnance Presence:	None
Type Ordnance:	Not Applicable
Risk Assessment:	5

Area J:

Size, Acres:	.50
Former Usage:	Plotting/Switchboard Rooms
Present Usage:	State Park
Probable End Usage:	Same
Ordnance Presence:	None
Type Ordnance:	Not Applicable
Risk Assessment:	5

Area K:

Size, Acres:	44.88
Former Usage:	Near Shore Ordnance Area (Additional Lands)
Present Usage:	State Park
Probable End Usage:	Same
Ordnance Presence:	Confirmed
Type Ordnance:	High Explosive Projectiles, Projectile Fuzes, Cannon Balls, 3.5-Inch High Explosive and Practice Rockets, Small Arms Ammunition, Hand Grenades.
Risk Assessment:	1

Area L:

Size, Acres:	756,491.75
Former Usage:	Off Shore Ordnance Area (Additional Lands)
Present Usage:	Navigable Waterway
Probable End Usage:	Same
Ordnance Presence:	Confirmed
Type Ordnance:	High Explosive Projectiles, Projectile Fuzes, Cannon Balls, 3.5-Inch High Explosive and Practice Rockets, Small Arms Ammunition, Hand Grenades.
Risk Assessment:	1

Area M:

Size, Acres:	434.86
Former Usage:	All Other Lands
Present Usage:	State Park, Town Park, Coast Guard Lorans Station, Residential.
Probable End Usage:	Same
Ordnance Presence:	None
Type Ordnance:	Not Applicable
Risk Assessment:	5

6. CURRENT STRATEGY:

Area A:	Recommend NDAI
Area B:	Recommend NDAI
Area C:	Recommend NDAI
Area D:	Recommend NDAI
Area E:	Recommend NDAI
Area F:	Recommend NDAI
Area G:	Recommend NDAI
Area H:	Recommend EE/CA
Area I:	Recommend NDAI
Area J:	Recommend NDAI
Area K:	Recommend EE/CA
Area L:	Recommend NDAI
Area M:	Recommend NDAI

7. EE/CA ISSUES AND CONCERNS:

Areas A: Numerous threatened, endangered, and rare
thru T species of wildlife have been identified to
occur on or near project area lands. There
are archeologically sensitive areas and
National Register of eligible historical
structures present on project area lands.
Personnel should be aware of the presence of
a heavy tick population throughout the
months of April through October. Area H is a
combination of bluff area, swampland, and
areas of heavy vegetation, along with the
majority of the remaining undeveloped
portions of project area lands. Areas that
are heavily vegetated contain substantial
scrub oak and dense brush cover. The Area K
shoreline has a heavy concentration of rocks
and boulders. It is very difficult to survey
the majority of this area due to footing
problems, and also very difficult to
distinguish weathered ordnance items amidst
the dark colored rocks. Although the site is
predominately fenced and periodically
patrolled, access to areas H, K, and L, all
confirmed OE areas, is virtually
unrestricted. Also, signs and numerous
accounts of illegal entry to the remainder
of project area lands are numerous, despite
barriers and patrolling. Montauk is a prime,
heavily visited tourist area.

8. CURRENT STATUS:

PA: 100%

ASR: 100%

Interim Response Action:

Areas A through M: Not Recommended

EE/CA:

Area A: Not Recommended

Area B: Not Recommended

Area C: Not Recommended

Area D: Not Recommended

Area E: Not Recommended

Area F: Not Recommended

Area G: Not Recommended

Area H: Recommended

Area I: Not Recommended

Area J: Not Recommended

Area K: Recommended

Area L: Not Recommended

Area M: Not Recommended

ATTACHMENT 5
PROJECT TEAM BUSINESS CARDS



EXPLOSIVE ORDNANCE ENGINEERING
MCX AND DESIGN CENTER



US Army Corps of Engineers
Huntsville Center

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