

APPENDIX A
SCOPE OF WORK



DEPARTMENT OF THE ARMY
NEW ORLEANS DISTRICT, CORPS OF ENGINEERS
P.O. BOX 60267
NEW ORLEANS, LOUISIANA 70160-0267

REPLY TO
ATTENTION OF:

5 July 2007

Contracting Division
Projects West Branch

SUBJECT: Addendum Work Request for Task Order Number CZ03 on Contract No. FA4890-04-D-0007, ECAS Control Number 393

Earth Tech
Attn: Mr. Edward Kent

Via e-mail: Edward.kent@earthtech.com

Mr. Kent:

We request you submit a cost proposal for additional work to be performed in accordance with the provisions of subject Air Force Contract FA4890-04-D-0007 and with the attached Scope of Work for Addendum, Environmental Compliance for IER 03:LPV, Lakefront Levee, Jefferson Parish, LA, dated 28 June 2007.

Provide your cost proposal to the Contracting Division, Projects West Branch only. The Contracting Division will provide copies to other divisions as required. In your response please address concurrence or changes to the payment schedule included within the scope of work. Your cost proposals should be submitted in the Air Force Spreadsheet tool, which has been provided to your office. Advise if there are any questions or problems with using this spreadsheet.

Your proposal is due in this office by Friday, 13 July 2007. If you have any questions, please contact me at (504) 862-1494.

Sincerely,

Pamela S Moody

Pamela Moody, Contract Specialist
Pamela.s.moody@mvn02.usace.army.mil
(504)862-1494

**Environmental Compliance for IER 03: LPV, Lakefront Levee
Jefferson Parish, LA**

A-D-D-E-N-D-U-M

NOTE: This Addendum 01 to IER Task Order 03, ECAS Control Log 393 does not in any way relieve the Contractor of due services associated with referenced IER Task Order 03. This Addendum 01 is for additional services.

1.0 General

The Contractor shall furnish all services, materials, supplies, labor, and travel, as required, in connection with performing a Phase I Environmental Site Assessment (ESA) as defined by ASTM E 1527-05, and in accordance with guidelines set forth in the US Army Corps of Engineers (USACE) Regulation ER 1165-2-132 (*Water Resources policies and Authorities for Hazardous, Toxic, and Radioactive Waste Guidance for Civil Works Projects, 26 June 1992*). The ASTM guideline is consistent with the requirements for conducting “All Appropriate Inquiry” (AAI) specified in the recently published EPA rule “Standards for Conducting All Appropriate Inquiries”. This new rule was published in the Federal Register on 1 November 2005 and became effective on 1 November 2006.

Information provided by this Phase 1 ESA shall highlight all locations with Recognized Environmental Conditions (REC)s in project areas that may require a follow-up Phase 2 ESA.

2.0 Project Background

USACE is investigating a 9.5 mile levee in Jefferson East Bank for storm protection. This Task Order is to investigate HTRW for the 1000’ levee right of way to each side of the levee center line.

3.0 Project Location

A project location map is attached.

4.0 Requirements

The Contractor shall furnish all services, materials, supplies, and labor required to perform the Phase I ESA, to include records review, regulatory review, site reconnaissance, interviews, and report preparation. The Phase I ESA report shall be for the IER 3. The report of findings shall follow the scope and format described in

ASTM E 1527-05 (which is in full compliance with the Nov 2006 EPA rule “Standards for Conducting All Appropriate Inquiries”), and shall include documentation of the qualifications of the personnel conducting the assessment and their findings, opinions, and conclusions.

4.1 Project Schedule.

The time for completion of this Task Order shall not exceed 45 calendar days from the Notice-To-Proceed (NTP).

5.0 Submittals. The Contractor shall provide the following:

5.1 Schedule Of Task Order Activities And Payment Invoicing.

The Contractor shall submit for approval a Draft Schedule of Task Order Activities and Payment Invoicing to the USACE, New Orleans District Contracting Office, within 1 day of the NTP.

5.2 Draft Phase I ESA Report.

The Contractor shall submit a digital copy of the Draft Phase I ESA report to the USACE, New Orleans District, within 30 days of the NTP. Government review comments will be provided within 1 week of receipt of the draft report.

5.3 Final Phase I ESA Report.

The Contractor shall submit four (4) copies of each of the Final Phase I ESA report to the USACE, New Orleans District, within 45 days of the NTP. Two (2) of the copies shall be in electronic format on compact disk. Electronic file format shall be: M.S Word (.doc) for text; M.S. Excel (.xls) for spreadsheets; and Adobe Acrobat (.pdf) and/or JPEG (.jpg) for figures and pictures. Government review comments will be provided within 1 week of receipt of the final reports.

5.4 Locations of RECs

The report shall document the location of RECs. The Horizontal Survey Data shall be referenced to North American Datum 1983 (NAD 83), National Spatial Reference System (NSRS), Louisiana State Plane Coordinate, South Zone 1702, and U.S. Survey Feet. All Vertical Survey Data shall be referenced to North American Vertical Datum (NAVD) 1988, U.S. Survey Feet. All benchmarks shall be verified either by GPS or conventional levels from an adjacent mark. All GPS derived elevations shall be established referenced to NAVD 88 following the guidelines in “NOAA Technical Memorandum NOS NGS-58” published in November 1987

(http://www.ngs.noaa.gov/PUBS_LIB/NGS-58.pdf), and DRAFT Guidelines for Establishing GPS-derived Orthometric Heights (Standards: 2 cm and 5 cm) (http://www.ngs.noaa.gov/PUBS_LIB/DRAFTGuidelinesforEstablishingGPSderivedOrthometricHeights.pdf).

5.5 Phase I ESA Decision Tree: Six Steps to a REC Determination

The Contractor shall utilize the methodology outlined in the Environmental Data Resources, Inc, "Phase I ESA Decision Tree: Six Steps to a REC Determination."

5.6 Data Gaps

The Contractor shall identify as Data Gaps; Property Owner Interviews, Environmental Lien Searches, and Chain of Title Searches.

6.0 Contractor Quality Control (CQC)

The Contractor shall ensure that all services and products provided to fulfill this Task Order, including work performed by subcontractors, are at or above the levels of quality required by the base contract under which this Task Order is written. The Environmental Professional (EP) that signs the ESA shall be ASTM trained in the ASTM E 1527-05 standard.

7.0 Right-of-Way / Entry / Access POC

Right of Entry (ROE) Will Not Be Provided. ROE must be requested through a formal MVN process.

8.0 Points of Contact

USACE HTRW Technical Point of Contact, Mr. Rick Gatewood, 504-862-1344
USACE Contracting Officers Representative, Mr. Lamar Hale, 504-862-1872



**Department of the Air Force
ECAS Contract No. FA4890-04-D-0007
ECAS Control Log #393
Proposed Task Order No. Addendum 01 to Task Order Number CZ03**

PROPOSAL

**ENVIRONMENTAL COMPLIANCE FOR
INDIVIDUAL ENVIRONMENTAL REPORT #3**

**ADDENDUM 01: PHASE I ENVIRONMENTAL SITE ASSESSMENT (ESA)
LPV, LAKEFRONT LEVEE
JEFFERSON PARISH, LOUISIANA**

Prepared for:

**New Orleans District
US Army Corps of Engineers
P.O. Box 60267
New Orleans, LA 70160-0267**

Prepared by:

**Earth Tech, Inc.
536 Washington Avenue
New Orleans, LA 70130**

July 13, 2007

The data in this volume shall not be disclosed outside the Government and shall not be duplicated, used, or disclosed in whole or in part for any purpose other than to evaluate the proposal; provided, that if a contract is awarded to this offeror as a result of or in connection with the submission of these data, the Government shall have the right to duplicate, use, or disclose the data to the extent provided in this contract. This restriction does not limit the Government's right to use information contained in the data if it is obtainable from another source without restriction.

PROPOSAL

MANAGEMENT AND TECHNICAL APPROACH TO ACCOMPLISH THE WORK EFFORT

The following summarizes the proposed management and technical approach for this RFP under Contract No. FA4890-04-D-0007 ECAS Control Log #393, Addendum 01 to Task Order Number CZ03 (hereafter referred to as Addendum 01).

The proposed work is to perform a Phase I Hazardous or Toxic Radioactive Wastes (HTRW) Environmental Site Assessment (ESA) to support the United States Army Corps of Engineer's (USACE's) levee rehabilitation efforts for IER 03: LPV Lakefront Levee. This Task Order is to investigate the potential HTRW for the 1000-foot levee right of way to each side of the center line of the existing levee.

The estimated cost of this project is \$53,315 and the work will be performed as a firm fixed price. Details of the cost estimate are provided in Appendix A.

The Phase I HTRW ESA project area is located on the East Bank of Jefferson Parish, Louisiana (Figure 1). The USACE civil project noted above consists of the rebuilding of 9.5 miles of earthen levees, the upgrading foreshore protection, the replacement of two floodgates, and the construction of fronting protection for four pump stations.

- LPV 00 Reach 1 Lakefront Levee
- LPV 01 Reach 2 Lakefront Levee
- LPV 02 Reach 3 Lakefront Levee
- LPV 9 Pumping Station #1 (Bonnabel) Modification, Fronting Protection, Positive Cutoff, and Floodwall Tie-ins
- LPV 10 Pumping Station #2 (Suburban) Modification, Fronting Protection, Positive Cutoff, and Floodwall Tie-ins
- LPV 11 Pumping Station #3 (Elmwood) Modification, Fronting Protection, Positive Cutoff, and Floodwall Tie-ins
- LPV 12 Pumping Station #4 (Duncan) Modification, Fronting Protection, Positive Cutoff, and Floodwall Tie-ins
- LPV 16 Floodwall and Gate at Bonnabel Boat Launch
- LPV 17 Bridge Abutment and Floodwall Tie-ins at Causeway Bridge
- LPV 18 Floodwall and Gate at Williams Blvd. Boat Launch
- LPV 19 Reach 4 Lakefront Levee
- LPV 20 Reach 5 Lakefront Levee

Earth Tech will perform the Phase I HTRW ESA in conformance with the USACE Scope of Work (SOW) for Addendum 01, Environmental Compliance for IER 03:LPV, Lakefront Levee, Jefferson Parish, Louisiana, dated 28 June 2007. The work will comply with American Society of Testing and Materials (ASTM) E 1527-05, and will be conducted in accordance with guidelines set forth in the USACE Regulation ER 1165-2-132 (*Water Resources Policies and Authorities for Hazardous, Toxic, and Radioactive Waste*

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Guidance for Civil Works Projects, 26 June 1992). The report of findings shall follow the scope and format described in ASTM E 1527-05 (which is in full compliance with the Nov 2006 EPA rule “Standards for Conducting All Appropriate Inquiries”), and shall include documentation of the qualifications of the personnel conducting the assessment and their findings, opinions, and conclusions.

Earth Tech shall furnish all services, materials, supplies, and labor required to perform the Phase I ESA, which include records review, regulatory review, site reconnaissance, interviews, and report preparation. Earth Tech shall ensure that all services and products provided to fulfill this Task Order, including work performed by subcontractors, are at or above the levels of quality required by the base contract under which this Task Order is written. The Environmental Professional (EP) that signs the ESA shall be ASTM trained in the ASTM E 1527-05 standard.

In order to accomplish identified objectives, five tasks will be completed.

TASK	DESCRIPTION OF TASK
1	Project Schedule/Environmental Database Search
2	Health and Safety Plan Preparation/Site Inspections/Interviews
3	Draft Report Preparation
	3.1 Phase I ESA Reporting Standards
	3.2 Phase I ESA Decision Tree: Six Steps to a REC Determination
	3.3 Locations of RECs
	3.4 Data Gaps
	3.5 Draft Phase I ESA Review/Comments by USACE
4	Final Report Preparation, Submission and Review/Acceptance by USACE
5	Project Administration/Project Coordination Meetings with USACE

A. MANAGEMENT APPROACH

The project management structure and overall approach for the proposed work include the following:

- Management, supervision, administration, cost accounting and control, project reporting, and submission of deliverables will be performed in accordance with the requirements of the contract statement of work (SOW).
- Earth Tech will develop a Draft Project Schedule in Microsoft Project as part of Task 1. This document will be submitted to USACE within one day after receiving the Notice to Proceed (NTP) from the USACE. No changes to this deliverables calendar will be made without prior notification and agreement by USACE and Earth Tech.
- To ensure consistency and coordination for New Orleans, Ms. Roberta Hurley will be the Program Manager for the Phase I ESA: Addendum 01 to IER #3. Other critical project personnel are as follows.

Project/Task Manager:	Darlene Venable, P.G.
QA Manager/Sr. Geologist:	Alec Macbeth, P.G.
CADD/GIS	Tammy Godfrey
Technical Editor	Nikki Thomas
Project Administration:	Robin Bond, Ginny Parker, Bonnie Freeman

B. TECHNICAL APPROACH

Earth Tech will perform the Statement of Work as described in Addendum 01, Task Order No. CZ03 of the RFP dated June 28, 2007, subject to the exceptions and assumptions noted in Appendix B of this document.

The following sections provide a brief technical approach for conducting the Phase I ESA for the LPV, Lakefront Levee project (Addendum 01 IER#3) in Jefferson Parish, Louisiana.

Task 1: Draft Schedule/Environmental Database Search

Earth Tech shall submit for approval a Draft Schedule of Task Order Activities within 1 day of the NTP from the USACE. Associated costs are included in Task 5 Project Administration.

Earth Tech shall review past environmental databases, as stipulated within the ASTM E 1527-05 standards. At a minimum, Earth Tech shall subcontract Environmental Data Resources (EDR) to search the following databases, as appropriate for the property, to

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help assess if hazardous sites or serious local environmental problems may exist on or immediately adjacent (see radius specifications) to the property:

- The National Priorities List (1 mile radius);
- Delisted National Priorities Lists (½ mile radius);
- The Comprehensive Environmental Response, Compensation, and Liability Information System (½ mile radius);
- The Comprehensive Environmental Response, Compensation, and Liability Information System No Further Remedial Action Planned Database (½ mile radius);
- The Solid Waste Landfills/Facilities Database (½ mile radius);
- The Emergency Response Notification System and Hazardous Materials Incident Reporting System (¼ mile radius);
- The Resource Conservation and Recovery Information System (½ mile radius for treatment, storage or disposal (TSD) facilities and ¼ mile radius for generators);
- Any state listing of registered and leaking underground storage tanks (¼ and ½ mile radii, respectively);
- The Louisiana Inactive and Abandoned Sites List (1 mile radius); and,
- Louisiana Department of Natural Resources Oil and Gas Wells Database (1 mile radius).

Earth Tech shall use the EDR environmental database search to assist in establishing the type of activities that were previously conducted in the areas shown on Figure 1. Standard historical sources that are reasonably ascertainable, such as fire insurance (Sanborn) maps, current and historical USGS topographic maps, historical aerial photographs and city directories shall be reviewed.

Task 2: Health & Safety Plan Preparation/Site Inspection/Interviews

Earth Tech shall prepare a Health & Safety Plan in advance of conducting any site activities, in accordance with Earth Tech and USACE requirements.

After reviewing historical information, Earth Tech personnel will perform a site inspection of the study area. In accordance with the USACE SOW for Addendum 01 IER#3, Earth Tech will only observe properties within the 1,000-foot right of way from the public streets or public sidewalks. Earth Tech personnel will make no attempt to interview personnel associated with such properties.

Earth Tech shall only conduct interviews with appropriate Jefferson Parish Levee District personnel having past experience and knowledge of the site. Interviews with the State LDEQ and local environmental agencies shall be conducted should clarification of environmental database search results be warranted. Site plans and topographic maps, where available, shall also be reviewed. The site inspection shall include an inventory of former chemical usage and waste generated on the site (if available); information on aboveground and underground storage tanks; available Superfund Amendments and

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Reauthorization Act (SARA) Title III reporting information; environmental permitting information and permits from local, state, or federal agencies; engineering reports and surveys relevant to environmental issues; records of claims, litigation, spills, noncompliance, complaints, etc., related to environmental practices; environmental monitoring data, including groundwater and soil testing, local geology and hydrogeology in the vicinity of the site; and data on electrical equipment containing polychlorinated biphenyl (PCB) fluids, where reasonably ascertainable from public records.

Task 3: DRAFT Report Preparation

3.1 Phase I ESA Reporting Standards

Earth Tech shall prepare the Draft Phase I HTRW ESA for Addendum 01:IER#3 in compliance with ASTM E 1527-05 and USACE Regulation ER 1165-2-132: Water Resources policies and Authorities for Hazardous, Toxic, and Radioactive Waste Guidance for Civil Works Projects, 26 June 1992.

3.2 Phase I ESA Decision Tree: Six Steps to a REC Determination

Earth Tech shall utilize the methodology outlined in the Environmental Data Resources, Inc, "Phase I ESA Decision Tree: Six Steps to a REC Determination." Information provided by this Phase I ESA shall highlight all locations with Recognized Environmental Conditions (RECs) in project areas that may require a follow-up Phase II ESA.

3.3 Locations of RECs

The report shall document the location of RECs. The Horizontal Survey Data shall be referenced to North American Datum 1983 (NAD 83), National Spatial Reference System (NSRS), Louisiana State Plane Coordinate, South Zone 1702, and U.S. Survey Feet. All Vertical Survey Data shall be referenced to North American Vertical Datum (NAVD) 1988, U.S. Survey Feet. All benchmarks shall be verified either by GPS or conventional levels from an adjacent mark. All GPS derived elevations shall be established referenced to NAVD 88 following the guidelines in "NOAA Technical Memorandum NOS NGS-58" published in November 1987 & DRAFT Guidelines for Establishing GPS-derived Orthometric Heights (Stds.: 2 cm & 5 cm) [http://www.ngs.noaa.gov/PUBS_LIB/NGS-58.pdf & http://www.ngs.noaa.gov/PUBS_LIB/DRAFTGuidelinesforEstablishingGPSderivedOrthometricHeights.pdf, respectively]. Earth Tech shall subcontract a licensed Louisiana surveyor to document the locations of the RECs.

3.4 Data Gaps and Right of Entry

Earth Tech shall identify as Data Gaps; Property Owner Interviews, Environmental Lien Searches, and Chain of Title Searches. Earth Tech understands that Right of Entry (ROE) will not be provided and that ROE must be requested through a formal USACE MVN process prior to accessing private property.

3.5 Draft Report Review by USACE

Earth Tech shall submit a digital copy of the Draft Phase I ESA report to the USACE, New Orleans District, within 30 days of the USACE NTP. USACE review comments will be provided to Earth Tech within 1 week of receipt of the Draft Phase I ESA Report by the USACE

Task 4: Final Report Preparation, Submission and Review/Acceptance by USACE

Earth Tech shall submit four (4) copies of each of the Final Phase I ESA report to the USACE, New Orleans District, within 45 days of the NTP. Two (2) of the copies shall be in electronic format on compact disk. Electronic file format shall be: MS Word (.doc) for text; MS Excel (.xls) for spreadsheets; and Adobe Acrobat (.pdf) and/or JPEG (.jpg) for figures and pictures. USACE review comments will be provided to Earth Tech within 1 week of receipt of the final reports.

Task 5: Project Administration

Project administration efforts will include overall project management activities, technical editing of draft and final reports, procurement of subcontractors, and developing the schedule of task order activities and payment invoicing. Two Project Coordination Meetings with USACE are included to review the comments on the Draft and Final Phase I ESA with the USACE.

C. Cost Proposal

A detailed cost proposal including a breakout of direct labor and all other costs for consideration under proposed Addendum 01 to IER#3 Task Order No. CZ03 is enclosed as Appendix A.

D. Project Schedule

Earth Tech shall submit for approval a Draft Schedule of Task Order Activities within one (1) day of the NTP.

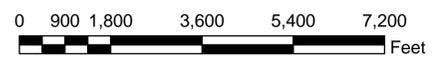
Earth Tech will submit the Draft Phase I HTRW ESA Report within 30 days of NTP. The time for completion of this Task Order shall not exceed 45 calendar days from the NTP.

Use or disclosure of data contained on this sheet is subject to the restriction on the title page of the subject proposal.

E. SCHEDULE OF PAYMENT

Earth Tech submits for approval this Draft Schedule of Payment Invoicing to the USACE, New Orleans District Contracting Office:

	Task	Percentage
TASK	DESCRIPTION OF TASK	%
1	Draft Project Schedule/ Environmental Database Search	5
2	Health and Safety Plan Prep/Site Inspections/Interviews	35
3	Draft Report Preparation 3.1 Phase I ESA Reporting Standards 3.2 Phase I ESA Decision Tree: Six Steps to a REC Determination 3.3 Locations of RECs 3.4 Data Gaps & ROE 3.5 Draft Phase I ESA Review/Comments by USACE	35
4	Final Report Preparation, Submission and Review/Acceptance by USACE	20
5	Project Administration	5



Legend
 — Levee Reach Centerline
 □ Approximate Outline of 1,000 Foot Levee Right of Way



Figure 1
 Study Area Location Map
 New Orleans, Louisiana

Printing Date: July 10, 2007
 File: M:\IT\GIS Projects\Louisiana\Levee Reach Files\ER Files\ER 3 LPV_jefferson East Bank.alec.mxd