

May 19, 1999
Contract No. DACA56-97-D-0010

Task Order No. 28

**SCOPE OF WORK
LIMITED GROUNDWATER ASSESSMENT**

**FORMER LAREDO AIR FORCE BASE
CONSTRUCTION LANDFILL**

DERP-FUDS PRP PROJECT NO. K06TX021305

1.0 GENERAL: The A-E shall furnish all services, permits, materials, supplies, plant, labor, equipment, disposal, studies, superintendence, travel, and any and all other services as required in connection with the limited groundwater assessment as contained in this scope of work (SOW). The A-E, its subcontractor (s) and appropriate employee (s) of each, hereinafter collectively called the "A-E" or the "contractor", shall be responsible for obtaining and maintaining any registration or certification as required by the various Federal, State, and Local regulatory agencies, and any other registrations, certifications, licenses, permits, warrants, or other credentials or permissions required to perform the contracted tasks. The contractor shall obey all laws and regulations of the United States, the State of Texas, and the local governments having jurisdiction over the activities in this SOW. The contractor is responsible for determining which laws and regulations apply to a particular task, although the Contracting Officer Representative (COR) may require additional legal/regulatory compliance as that person may determine is required.

2.0 CONTRACT DURATION: The duration of this contract is anticipated to be approximately 7 months.

3.0 BACKGROUND INFORMATION:

3.1. Project Location: The Former Laredo Air Force Base is now known as Laredo International Airport. The airport is located in the northeast portion of the City of Laredo, in Webb County, Texas (see Figure 1). The Construction Landfill being investigated is located near the northwest boundary of the Airport property (see Figure 2).

3.2. Site History: The Former Laredo Air Force Base was used as a military base from 1942 to 1975. The U.S. government acquired 2,085.43 acres for the construction of Laredo Army Airfield on 7 May 1942. The Government constructed runways and numerous facilities from 1942 to 1974. The base was initially deactivated on 17 June 1947, however it was reactivated during the Korean conflict. The base was deactivated again on 29 March 1974, and approximately 309 acres were either deeded or sold to federal, state and county agencies, or private interests. The remaining acreage was deeded to the City of Laredo, Texas. The Construction Landfill was reportedly used during the period of Department of Defense occupancy, and in later years, while under ownership by the City of Laredo. The USACE has performed electromagnetic and soil gas surveys at the Construction Landfill. USACE prepared a Preliminary Investigation Report, which was submitted, to Texas Natural Resource Conservation Commission (TNRCC) in February 1998. TNRCC felt that the surveys did not adequately demonstrate the contaminants at the site, and recommended that a Limited Groundwater Assessment be conducted. The letter from TNRCC is at attachment 1.

4.0 OBJECTIVE:

The objective of this SOW is to conduct a limited groundwater assessment at the Construction Landfill. The Construction Landfill is located on the northwest side of the Laredo International Airport (see Figure 2). The groundwater assessment is being performed to determine if contaminants are present in the groundwater as a result of the Construction Landfill.

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The Tulsa District U.S. Army Corps of Engineers (USACE) shall provide a backhoe and operator to perform trenching/test pits to define the southern limits of the Construction Landfill. The USACE will have a Site Safety and Health Officer on-site during the backhoe trenching operations. The USACE will provide the drilling equipment, operators, and field personnel for the installation of four (4) monitoring wells (see Figure 3 for locations). The USACE will provide the A-E the work schedule for field activities. The USACE will drill, construct, develop, purge and sample the groundwater from the monitoring wells to be installed during this assessment. The USACE will provide personnel for obtaining and preparing samples for shipment. The USACE will provide all sample equipment and sample containers. The USACE will also provide containers for the investigative derived materials for the first 60 days of the project. The USACE will prepare drilling logs that will be provided to the A-E on-site representative on a daily basis.

The A-E shall provide technically qualified personnel to perform the field portion of this SOW (observation and understanding of drilling and sampling, observation of preparation of samples for shipping, shipment of samples and preparing a daily site activity report). All USACE prepared daily reports and obtained data will be provided to the A-E on-site representative the following day. The A-E on-site representative shall be present daily to observe, understand and receive previous day's documentation. The A-E shall provide transport of samples, perform the required analysis, and prepare data validation of all samples. The A-E shall be responsible for the survey of the final monitoring well locations. The A-E shall prepare a final Limited Groundwater Assessment Report as outlined in Section 7.4 of this SOW. The A-E shall also provide disposal of the investigative derived materials. The A-E shall characterize the nature and extent of the contamination, gather field data to evaluate the level of concentrations and their associated risks/threats to human health and the environment, identify all pathways of exposure, identify applicable or relevant and appropriate requirements (ARARS) for the site, determine if additional work is required, identify the additional work requirements, identify costs associated with the additional work, and complete a comprehensive report discussing all efforts and information identified to complete the work stated in this SOW.

5.0 A-E SERVICES (Basic). The A-E shall deliver their proposal to the government divided into 5 main tasks as follows:

- a. Kick-off meeting/review conferences
- b. Work plan preparation
- c. Field work
- d. Final report
- e. Administration of the contract

6.0 REFERENCES: The A-E shall follow the latest version of USACE regulations and manuals listed below to accomplish the tasks required by this SOW. Where there are conflicts with USACE guidance, the requirements of the regulatory agencies shall prevail.

EM 200-1-2	Technical Project Planning Guidance for HTRW Data Quality Design
EM 200-1-3	Requirements for the Preparation of Sampling and Analysis Plan
EM 1110-1-4000	Monitoring Well Design, Installation, and Documentation at Hazardous and/or Toxic Waste Sites
EM 385-1-1	Safety and Health Requirements Manual
ER 1110-1-263	Chemical Data Quality Management for HTRW Remedial Activities
ER 1110-1-12	Engineering and Design, Quality Management
ER 385-1-92	Safety and Occupational Health Document Requirements for Hazardous, Toxic and Radioactive Waste and Ordnance and Explosive Waste Activities

7.0 REQUIRED A-E SERVICES:

- 7.1 Kick-off Meeting.** The A-E shall attend a kick-off meeting at the Tulsa District prior to the development of the draft work plan. The contractor shall assume a 1-2 hour meeting.

7.2 Work Plan Preparation.

7.2.1 The A-E shall develop workplans describing the methods and procedures that will be used during the assessment to accomplish the tasks as stated in this SOW. A draft and final plan shall be prepared. The workplan shall include, but not be limited to, detailed site plan requirements that include a Sampling and Analysis Plan (in accordance with ER 1110-1-263, and EM 200-1-3), a Waste Management Plan (WMP), and a Contractor Quality Control Plan (CQCP). The Work Plan shall be prepared and provided in a logical and readable format describing the work to be completed for this groundwater assessment. The USACE will provide a Site Safety and Health Plan (SSHP) which the A-E shall review prior to field investigation activities and adhere to during the field activities. The USACE will provide the schedule of field activities, drilling methods and equipment specifications, sampling methods and equipment, sample preparation, decontamination procedures, etc. to the A-E for inclusion in the work plan. The USACE SSHP will discuss monitoring, general safety, personnel decontamination and other information for the A-E to review prior to initiation of field activities.

7.2.2 The A-E's workplans shall include the following, but is not limited to: how the contractor will ensure quality data to meet the A-E's tasks stated in this SOW; project work schedules; applicable background information; project strategy; data quality objectives; sampling and analysis requirements; reducing and analyzing data generated from investigations including chemical and physical data summaries; plan implementation requirements; organizational structure and responsibilities; initial evaluation of existing data and Government furnished information; site visits; meetings; preliminary assessment of public health and environmental impacts; preliminary identification of general response actions and alternatives; identification of ARARS associated with the investigation; applicable Texas and Federal Regulations.

7.2.3 Sampling and Analysis Plan (SAP). The A-E shall prepare a SAP, which contains a description of all requirements and procedures for sampling and analysis of groundwater and IDW, and shall specify the USACE approved laboratory that will conduct the analysis. The SAP shall include requirements for quality assurance (QA) and quality control (QC). The SAP shall also include analytical methods, holding times, laboratory preparation methods and techniques, and practical quantitation limits for each parameter to be analyzed for the project. It should be organized according to the following format:

- Introduction
- Project background
- Project organization. This section shall include a discussion of the contractor's personnel including managers, field personnel, QC personnel, the contractor's organizational chart and proposed laboratory organization, validation and qualifications.
- Data Quality Objectives. The data quality objectives will discuss data uses and data needs for all aspects of the project that includes, but are not limited to; evaluation of the nature of contamination.
- Numerical goals shall be established for precision, accuracy and representativeness criteria. Objectives shall be established for comparability and completeness. Laboratory quantitation limits shall be provided for each analyte.
- Field Operations. This section shall include all field activities, including the A-E's field observation, the USACE investigation

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activities, field QC, waste management, disposal of wastes and other appropriate information.

- Sample testing methods.
- Sample integrity, including custody and documentation.
- Data reduction, validation and reporting.
- Audits (QA procedures to insure adherence to the workplan and the performance of quality work).
- Corrective action.

7.2.4 Waste Management Plan. The A-E shall develop and Waste Management Plan and perform waste disposal in accordance with the State of Texas and federal regulation requirements for soil, water and personal protective equipment waste streams. The A-E is responsible for waste management from the point of generation to final disposal. The A-E shall list control measures to comply with the regulations such as segregation, containment, packaging, transportation, storage, labeling, permitting, and record keeping. The USACE will initially provide all containers for the Investigative Derived Material (IDM) for a period of 60 days. The A-E will be responsible for disposing of the materials and containers appropriately (within 60 days), or shall be responsible for payment of the containers, if applicable. The A-E shall provide storage for the containers/drums temporarily on site, test all waste, and is responsible for disposal of all materials. All materials shall be considered hazardous while handling and storing, until analytical results of the materials are received and evaluated. For more information, see section 7.3.7 of this SOW.

7.2.5 Site Safety and Health Plan. The SSHP will be prepared by the USACE and provided to the A-E prior to field activities.

7.2.6 Contractor Quality Control Plan. The A-E shall develop a quality control (CQC) plan discussing how the A-E shall produce and the steps that will be taken to control the quality of the plans, analytical data, and final reports for this SOW. For more information see reference ER 1110-1-12.

7.3 LIMITED GROUNDWATER ASSESSMENT FIELDWORK. The A-E shall execute the field work as specified below and in accordance with the approved Final Work Plan.

7.3.1 Utility Clearances and Permits. The A-E shall be responsible for obtaining any permits from the appropriate state and local agencies and shall be responsible for coordinating all utility clearances at the site. If required to move a well location in order to avoid utilities, the A-E and USACE Investigation Field Manager shall agree on the relocation of the boring to a suitable location, which accomplishes the intent of the original location. The proposed location shall be as close as possible to the original location.

7.3.2 Right-of-Entry (ROE). The USACE will provide a signed ROE permit for the site and needed adjacent properties to the A-E after notice-to-proceed has been given by USACE.

7.3.3 Sample Collection Methods. Sample collection methods will be addressed in the A-E's SAP. All groundwater samples shall be collected using a low-flow (minimal draw down) sampling technique to ensure the collection of low turbidity samples. The USACE personnel shall prepare drilling logs, visually classifying the soils using the Unified Soil Classification System (USCS) at five foot intervals or key stratum changes, note all water bearing zones and all other pertinent information. Since the A-E will be preparing the final Report, the A-E should ensure that all data required for the report is being logged. Any requests

or recommendations shall be made by the A-E field representative to the USACE Field Manager.

- 7.3.4 Mobilization Notice.** The mobilization date will be established at the kick-off meeting held prior to project execution. The USACE will notify the A-E thirty (30) days in advance of the mobilization date for coordination. The USACE will again notify the A-E seven (7) days prior to mobilization.

7.3.5 Chemical Analytical/Laboratory Requirements.

7.3.5.1 The contractor shall utilize a USACE approved laboratory to conduct the chemical analysis for all samples for this project. Prior to submittal of the draft work plan, the A-E shall identify and obtain approval from the assigned Tulsa District Chemist the selection of a laboratory to analyze groundwater and IDM samples. The contractor shall assume a 30-day turn-around-time for all analytical data. The quality assurance (QA) sampling shall be coordinated with the Tulsa District early in the project. The USACE shall provide the A-E where to send all QA samples. The A-E shall be responsible for the cost to ship QA samples to the USACE specified laboratory, however the USACE shall provide the funds for the cost of QA analysis. The QA laboratory results will be shipped directly to the USACE assigned chemist.

7.3.5.2 The USACE shall provide all containers and equipment (jars, bottles, vials, coolers, and other applicable items) to conduct the groundwater and IDM sampling. The USACE and the A-E shall follow the approved SAP and ensure the required analytical methods and procedures are followed to ensure the quality of the analytical results.

7.3.5.3 The contractor shall organize and submit 2 hard copies of all laboratory analysis/reports to the USACE (within 7 days of receipt from the lab) in order to evaluate the comparability of all data. The data shall be comb bound and shall have a heavy red card stock front and back cover. The original shall contain the original copy of all information required to be submitted and shall be marked as the original. All copies shall be clearly marked as "copy made from original source" or words to that effect. All laboratory data shall have dates, reference numbers, contract numbers, project numbers, project name, and other pertinent information on it. The USACE shall provide a comparability letter to the A-E. The A-E shall insert the comparability information into the A-E Validation Report (as part of the appendices to the Final Report). A copy of all analytical data shall be included in the appendices of the Groundwater Assessment Report.

- 7.3.6 SITE RESTORATION:** The USACE will restore any damages caused by the drilling operation. The A-E will be responsible for restoring damages due to the IDM removal or other contractor or subcontractor caused damages.

- 7.3.7 Investigative Derived Material (IDM).** The A-E is responsible for the management and disposal of all wastes (liquid, solid, PPE, and any other materials generated) from the point of generation to final disposal. The A-E shall dispose of all waste in accordance with the State of Texas and federal regulatory requirements for soil, water and PPE waste streams. The A-E shall utilize measures to comply with the regulations such as segregation, containment, packaging, transportation, storage, labeling, permitting, and record keeping. The USACE will initially provide all containers/drums for the first 60 days. The A-E shall provide all containers/drums (after initial 60 day period), handle all wastes, place waste in shipping containers, store the containers/drums temporarily on site, test all waste, is responsible for disposal of all wastes, and

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returning or removing waste containers. All solid and liquid waste generated from investigations shall be containerized and managed as hazardous waste until determined non-hazardous through appropriate analysis. All waste shall be stored on site (in a secure location) to await proper disposal. Containers should be permanently marked with information on contents, boring or well number from which IDM was taken and depths from which taken. All permitting, shipping, and disposal records shall be included in the appendices of the final report for this project. For bid purposes, the A-E shall assume that soil and liquid IDM shall be classified as non-hazardous for disposal purposes. For the appropriate waste media in the IDM container, one soil and water sample per container of IDM shall be obtained and analyzed for disposal.

- 7.3.8 **Sample Location Surveys and Mapping:** The Tulsa District shall furnish the A-E the initial survey maps of the site in Intergraph Microstation (*.DGN) CADD format. The A-E shall include the map in the final report. The A-E shall be responsible for the final survey of the monitoring well locations.
- 7.3.9 **Sample Location, Collection and Analysis:** For bid purposes, the A-E shall assume 4 groundwater samples and 2 IDM samples will require analysis. The volume obtained from each sample shall be adequate for all analytical requirements.

ANALYTICAL METHODS

ANALYTE	EPA METHOD	GROUNDWATER	EST. QTY.
Total Dissolved RCRA Metals	6010 and 7470	Water	4
VOA	8260	Water	4
SVOA	8270	Water	4
PCBs	8081-8082	Water	4
IDM	1311 TCLP	Water	1
IDM	1311 TCLP	Soil	1

Notes:

- 1) All chemical methods are from SW-846.
- 2 A listing of volatile and semi-volatile compounds to be tested for will be provided by USACE.

- 7.3.10 **Soil Description:** USACE shall provide the A-E all boring logs and sample locations describing the soils and groundwater zones encountered. The information shall include sample identification number, sample collection depth, date and time, total depth of each boring, visual classification of the soil using the Unified Soil Classification System, and other applicable information. The A-E on-site representative (s) shall keep a daily logbook and prepare a daily site activity/QC report. The A-E shall ensure all details required for the preparation of the final report are documented either by the A-E, or in the USACE drill logs. All logs and as-built drawings of the well construction will be included by the A-E in the assessment report. All log entries will be legibly printed. Photo reproduction shall be clear and legible. The log description shall be in accordance with EM 1110-1-400, Monitoring Well Design, Installation and Documentation at Hazardous and/or Toxic Waste Sites.

7.4 LIMITED GROUNDWATER ASSESSMENT REPORT

- 7.4.1 The Groundwater Assessment Report shall contain an executive summary, introduction, body of the report, conclusions, and appendices or other format as designated by the regulatory agency. The report shall discuss in detail pertinent existing information, field investigations including the methods and locations of the sampling conducted, the results of the data collected and the analysis and interpretation of the data provided in the tables, maps, or graphs with

accompanying explanations, determine if a release has occurred, and if it has, what is the nature and extent of the contamination, groundwater elevation maps, conclusions and all pathways of possible contaminant migration, identify and discuss Federal/State specific Applicable or Relevant and Appropriate Requirements (ARARs), recommend remedial action or additional work with explanations for the need along with associated costs. If the assessment report indicates that the contamination is within acceptable limits, as defined by the Environmental Protection Agency (EPA), and the Texas Natural Resource Conservation Commission (TNRCC), or there are no human health population subject to the contamination, the report shall so indicate and recommend that no further studies be conducted for the groundwater assessment at this site. The appendices shall include, but not limited to, data validation report and analytical results, permits, field notes, soil log description, survey data, disposal manifests, well construction details and other pertinent information.

7.4.2 Data Validation Reports. The A-E shall include a data validation report in the appendices. The report shall encompass the data contained in the laboratory report pertaining to each analytical parameter. The contractor shall discuss the following:

General-Test methods, method numbers, holding times, and a list of sampling, analysis and extraction dates.

Accuracy-Matrix spike recoveries, surrogate recoveries, acceptable recovery ranges.

Precision-Matrix spike duplicate recoveries, relative percentage difference, laboratory quality control duplicates, acceptable recovery ranges and differences, and a comparison of the field samples with their associated quality control duplicate samples.

Representativeness-Laboratory blanks, field blanks, instrument blanks, chain of custody forms and cooler receipts, along with a brief discussion on sample conditions upon arriving at the laboratory.

Completeness-Analytical completeness shall be assessed by comparing the number of samples collected to the number of samples necessary to adequately characterize the site. Refer to EM 200-1-3, Requirements for the Preparation of Sampling and Analysis plan for more information.

Comparability-The QA samples shall be analyzed by the Tulsa District and compared to the field replicates. The Tulsa District will provide a letter of comparability to the A-E to be included in the Data Validation Report.

Sensitivity-Adequacy of the detection limit for the intended purpose. The A-E shall discuss what their detection limit and reporting limit actually represents i.e. method detection limit or practical quantitation limit. Discussion of actual analytical method used, matrix interferences, dilution factors, and effects of any variance from the method as described in the SAP, and whether or not holding times were met. The report shall maximize the use of tables to present analytical data i.e. date samples collected, extraction date, analysis date, holding times, field identification numbers, laboratory identification numbers, travel blanks, equipment blanks, quality control, quality assurance, soil samples, water samples, analytical parameters, laboratory report number, reporting units, and quality control data (MS, MSD, LCS, surrogates, etc.) The report shall discuss problems, whether or not the data is suitable for its intended purpose and meets the data quality objectives as specified in the SAP.

7.5 REVIEW CONFERENCE: A technical review meeting shall be held at the Tulsa District Office after the draft assessment report has been reviewed by the USACE, but prior to the final report. The A-E shall assume a 2-hour meeting to discuss various issues on the report and the project.

7.6 PROJECT DELIVERY SCHEDULE. The schedule for delivery of work items to the Contracting Officer (CO) is in calendar days.

WORK ITEM	DESCRIPTION OF WORK	COMPLETION SCHEDULE	#OF COPIES
1	Kick-off meeting	7 days after NTP	
2	Draft Work Plan	30 days after NTP	7
3	Final Work Plan	7 days after comment resolution	10 + 1 disk copy
4	Field Work Mobilize Notification	30 days prior to start of field work (USACE will provide notification to A-E)	
5	Field Work Mobilize Notification	7 days prior to start of field work (USACE will provide notification to A-E)	
6	Start Field work	no later than 7 days after USACE final notification	
7	End Field Work	7 days after mobilization	
8	Analytical Results To USACE	7 days after contractor receipt of data	2
9	Draft report	45 days after receipt of analytical from laboratory	7
10	Review Conference	upon completion of USACE review	Meeting at Tulsa District Office
11	Final Report	7 days after comment resolution	10 + 1 disk copy MS Word format

7.7 Distribution of Submittals. All submittals shall be provided to the Tulsa District Project Coordinator, and distribution of all submittals shall be made by the Tulsa District. All copies of submittals, including detailed progress reports, analytical data, confirmation notices, draft, and final reports shall be mailed to:

**Tulsa District, Corps of Engineers
ATTN: CESWT-EC-EF (C. Wies)
1645 S. 101st E. Avenue
Tulsa, Oklahoma 74128-4629**

8.0 SPECIAL CONDITIONS:

8.1 Performance of Work. The contractor in performance of the work shall adhere to the following guidelines.

8.1.1 The A-E shall furnish sufficient technical, supervisory and administrative personnel at all times to ensure the work is performed in accordance with the delivery schedule. Professional level skills and management practices are required in the performance of this contract. Accordingly, the A-E shall establish an effective quality control program to assure that the end product meets professional standards and complies with the contract requirements.

- 8.1.2 Meetings/conference calls shall be held whenever requested by the Contracting Officer or the A-E for discussion of questions and problems relating to the work required under the contract.
- 8.1.3 The A-E, its subsidiaries, affiliates or associates shall not release any information regarding the project to technical societies, news media or the general public without obtaining permission from the CO.
- 8.1.4 An A-E performance evaluation shall be completed after the completion of this task order or in the interim if the A-E's work is found to be unsatisfactory.

8.2 Project Management.

- 8.2.1 **A-E Project Coordinator or Manager.** The A-E shall appoint a project coordinator or manager to serve as a single point of contact and liaison between the A-E and the CO and/or his representative(s) for all work required under the contract. Upon award of the contract, the A-E shall immediately furnish the name of the designated individual to the CO, in writing. The project coordinator or manager shall be responsible for the complete coordination of all work developed under the contract. All work shall be accomplished with adequate internal controls and review procedures, which will eliminate conflicts, errors, omissions and ensure technical accuracy.
- 8.2.2 **Government managers.** The Government's Project Coordinator is Carol Wies, with the FUDS/SFO Section, HTRW Design Center, Tulsa District (918-669-7519, FAX-7508). The USACE Investigation Section POC is Mr. Greg Snider (918-832-4120). Any questions regarding the work under this contract should be directed to Ms. Wies. Any questions about contract procedures should be directed to Mr. Bernd Koerber, A-E Contract Section, Design Branch, Tulsa District (918-669-7025). The Government's Project Manager is Ms. Lisa Lawson, Programs and Project Management Division, Tulsa District (918-669-7551).

8.3 Documents.

- 8.3.1 The deliverable documents described in this SOW shall be considered "Draft" only in the sense that they have not been reviewed and/or approved by the CO or other members of a technical review team which, as determined by the CO, may include reviewers from the USACE and local, state and federal regulatory agencies. Each draft report shall be reviewed and approved prior to proceeding with final reports. In all respects "Draft" and "Final" work plans/reports shall be complete, in the proper format, one-sided typed, double spaced, and be free of grammatical and typographical errors. All documents shall maximize the use of tables and charts and minimize the data in the appendices. All documents shall be bound in a good quality three-ring-binder, and shall have a project title, site name, site location, type of investigation, state of the report (draft or final), contract number, date, and prepared for the Tulsa District on the cover and the binder. The initial survey maps and associated data shall be provided by the Corps of Engineers, Tulsa District in Intergraph Microstation (*.DGN) CADD format. Final survey maps and data shall be provided by the A-E to the USACE in the same format as those provided by the Government. All final reports shall also be provided to the CO on disk in MS Word for Windows format.
- 8.3.2 **Review.** The A-E shall comply with the review process as outlined in this paragraph. The CO will furnish the A-E review comments on the data and reports submitted at the various milestones. The A-E shall comply with the review comments in the development of data and reports for the next milestone. If any review comment requires clarification and/or amplification to assure compliance, the A-E shall verbally notify the Project Coordinator.

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8.3.2.1 The A-E shall submit, in writing, within 72 hours of verbal notification, a record of conversation with the Project Coordinator.

8.3.2.2 Changes in any work as a result of review comments will not be considered a change in the contract unless a significant change in scope is involved.

8.3.2.3 After each review, the A-E will be furnished one set of comments to be annotated and returned to the Government. Comments shall be annotated with a C – Concur, D – Do not concur, E – Exception, or X – Delete. Comments annotated with a D, E, or X shall be explained to justify the non-compliance with the comment. The A-E shall furnish these annotated comments to the Government no later than 7 calendar days after receiving comments.

8.3.2.4 To assist reviewers, a copy of all annotated comments shall be included in each subsequent submittal. These annotations shall, in addition to explanations previously required, include a brief notation for all comments concurred with as to what action was taken and where.

8.4 Government-Furnished Materials (GFM). Upon delivery of any Government furnished information, the A-E shall inspect and notify (within 3 days) the Project Coordinator acknowledging the receipt of information. If the A-E identifies any conflicts with the GFM in comparison to the pre-negotiation minutes, this SOW, or other communications concerning this project, the A-E shall notify the CO in writing, within 5 days of discovery of the conflict. Any Government-furnished aerial photographs, topographic mapping, reproducible drawings, or other various reports shall be returned to the Project Coordinator upon completion of the task order.

8.5 Confirmation Notices. The A-E shall provide a record of all conferences, meetings, discussions, verbal directions, telephone conversations, etc., participated in by the A-E and/or his representatives on matters relative to the contract and the work. The records entitled “CONFIRMATION NOTICES” shall be numbered sequentially and shall fully identify participants, subject discussed and any conclusions reached. The A-E shall forward to the CO and the Project Coordinator, within 72 hours, a reproducible copy of each confirmation notice. The A-E, upon USACE request, shall perform any additional distribution of the confirmation notices as necessary.

8.6 Subcontractors. The A-E shall insert appropriate provisions in all subcontracts relating to this SOW to ensure fulfillment of all contractual provisions by the subcontractors. If for sufficient reason, at any time during the process of this contract, the CO determines that any subcontractor is unsatisfactory or is not performing in accordance with the contract, the A-E shall be informed in writing accordingly, and immediate steps shall be taken by the A-E to obtain acceptable performance or for cancellation of such subcontract. Subletting by subcontractors shall be subject to the same requirements. Nothing contained in this contract shall be construed to create any contractual relations between any subcontractor and the Government.

8.6 MEETINGS AND CONFERENCES

8.6.1 **Meetings.** Meetings shall be held whenever requested by the CO or the A-E for discussion of questions and problems relating to the work required under the contract.

- 8.6.2 **Conferences.** The A-E shall be required to attend and participate in all conferences pertinent to the services and work required by the contract or as directed by the CO.
- 8.6.3 **Site Visits.** The A-E or his representatives, including consultants, shall visit and inspect the project site as necessary and required during the preparation and accomplishment of the work described in this SOW. All travel, costs, and expenses incurred by the A-E or his representatives, including consultants, for such site visit shall be included in the price of the task order.

9.0 GENERAL CONDITIONS.

- 9.1 **Initiation of Work.** The contractor shall not mobilize or initiate any work item of this task order or any work item from a modification to this task order without approval of the CO. Any work done without approval or direction to do so by the CO shall be at the contractor's expense.
- 9.2 **Monthly Progress Reports and Payment Requests.** The contractor shall prepare monthly progress reports that summarize the project activities which have occurred during that month, highlight any problems or potential problems which have become apparent regarding technical data adequacy, manpower, schedules, etc. and provide an estimated project completion status (%). The percent claimed shall coincide with the progress report. The report shall be delivered no later than the 5th day of the following month for the previous month's activities.

The payment request with progress reports shall be mailed to:

Tulsa District, Corps of Engineers
ATTN: A-E Contracts and Documents Section (CESWT-EC-DA)
1645 S. 101st East Ave.
Tulsa, Oklahoma 74128-4629

The progress reports shall be faxed to:

Tulsa District, Corps of Engineers
CESWT-EC-EF (C. Wies)
1645 S. 101st East Ave.
Tulsa, Oklahoma 74128-4629

The QA laboratory report(s) shall be mailed directly to:

Tulsa District, Corps of Engineers
CESWT-EC-EF (G. Williams)
1645 S. 101st E. Ave.
Tulsa, Oklahoma 74128-4629

The Investigation Section POC is:

Tulsa District, Corps of Engineers
CESWT-EC-EI (G. Snider)
5919 E. 12th St.
Tulsa, Oklahoma 74112
Phone 918-832-4122 or mobile phone 918-629-1927

9.3 **Completion of Work.** Work under this task order shall not be considered complete until the final investigation report has been submitted and approved by the CO. If the task order is modified, the CO will consider completion of the modified task schedule to constitute completed work. A retainage of up to 10 percent of the total fee will be withheld until the CO determines the contract is complete.

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The map shows the city of Laredo, Texas, and its surrounding areas. Key features include:

- Major Roads:** I-35 (running north-south) and I-69 (running east-west) are prominent.
- Geographical Features:** The Rio Grande is shown on the left side, and Dolores Creek is on the right.
- Landmarks:** The Laredo International Airport is located to the north of the city. The Laredo Convention Center is also visible.
- Site Location:** A specific area is marked with a box and labeled "SITE LOCATION" near the intersection of I-35 and I-69.
- Other Labels:** "El Paso" is visible in the upper left, and "Dolores Creek" is labeled multiple times along the right side.

















- | | | | |
|---|------------------------------|---|-----------------------|
|  | Secondary SR, Road, Hwy Ramp |  | Large City |
|  | Major Connector |  | Summit |
|  | State Route |  | Hospital |
|  | Interstate/Limited Access |  | Park or Reservation |
|  | US Highway |  | Sched Service Airport |
|  | Primary State Route |  | National Boundary |
|  | Utility |  | Population Center |
|  | Railroad |  | Land |

FIGURE 1
LOCATION OF FORMER
LAREDO AIR FORCE BASE

000124

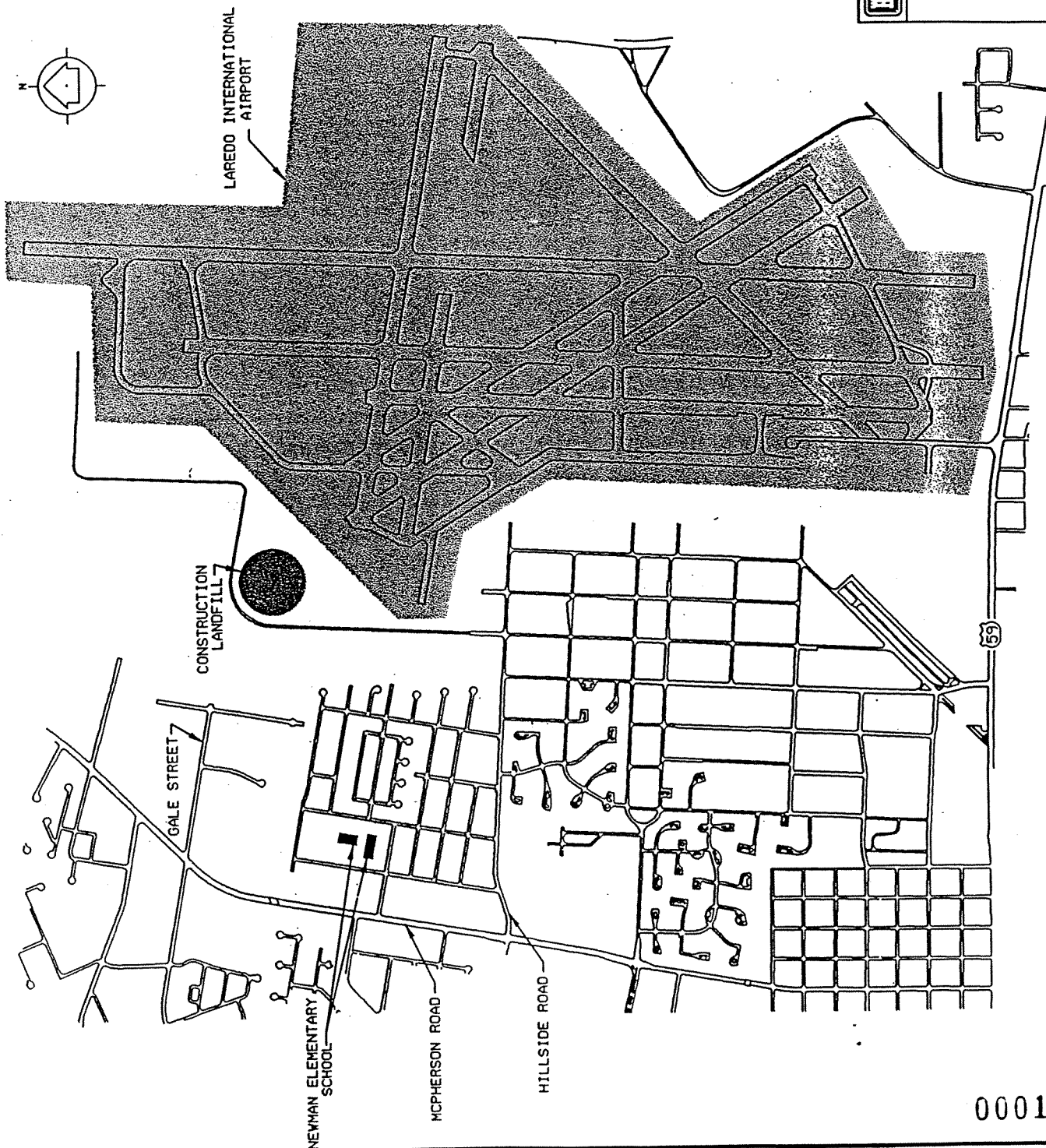


FIGURE 2

00013

Barry R. McBee, *Chairman*
R. B. "Ralph" Marquez, *Commissioner*
John M. Baker, *Commissioner*
Pearson, *Executive Director*



TEXAS NATURAL RESOURCE CONSERVATION COMMISSION

Protecting Texas by Reducing and Preventing Pollution

April 21, 1998

Ms. Lisa Lawson
Programs and Project Management Division
Military/Environmental Branch
Department of Army
Corps of Engineers
P.O. Box 61
Tulsa, Oklahoma 74121-0061

Re: Construction Landfill
Former Laredo Air Force Base, Laredo, Texas
Formerly Used Defense (FUD) Site No. K06TX021305
Review of Preliminary Investigation Report

Dear Ms. Lawson:

The Texas Natural Resources Conservation Commission (TNRCC) has completed our review of the *Preliminary Investigation Report, Construction Landfill, Former Laredo Air Force Base (FUDS), Laredo, Texas*, dated January 1998 and received on February 9, 1998. This report summarizes investigation activities completed by the U.S. Army Corps of Engineers (USACE) at the Construction Landfill site at the former Laredo Air Force Base (FUD Site No. K06TX021305). The investigation consisted of completion of geophysical surveys to assess the location and type of wastes deposited in the landfill and a soil gas survey to assess the presence of select petroleum hydrocarbon and chlorinated aliphatic volatile constituents in the subsurface.

Based on our review of this report it appears that the extent of waste disposal has been defined in all directions except to the south. We concur that the electrical conductivities of the wastes do not appear to reflect the presence of sanitary landfill cells within the landfill area. In addition, the soil gas survey sampling did not detect the presence of volatile constituents, however, the TNRCC views this investigation technique as a "screening tool" and cannot be used as proof that hazardous constituents are not present. As a result, we believe that the investigation activities do not adequately demonstrate that contaminants are not present at the site.

Since the potential threat to human health and environment posed by the landfill has not been determined, the TNRCC cannot approve closure of this site at this time. The TNRCC recommends

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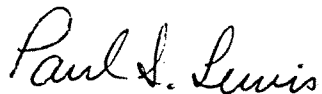
Ms. Lisa Lawson
Page 2
April 21, 1998

that a limited groundwater assessment be performed to determine if contaminants are present in the groundwater downgradient of the landfill. At a minimum, one upgradient well and two downgradient wells will be required. Additional wells may be required to provide an accurate assessment of groundwater impacts from all areas of waste placement and to assess the extent of groundwater contaminants, if any. Groundwater samples should be collected from the monitoring wells and analyzed for VOCs, SVOCs, PCBs and total dissolved RCRA metals. Please note that the TNRCC recommends that groundwater samples be collected using a low-flow (minimal drawdown) sampling technique to ensure the collection of low turbidity samples.

Please provide within 90 days of receipt of this letter, a workplan for conducting the groundwater investigation described above. Also, note that the TNRCC requires that a copy of all correspondence including workplans and reports, be submitted to the regional office in Harlingen. Additionally, we require that the regional office be notified at least 10 days prior to any field sampling activities.

If you have any questions regarding this review or the additional work required, please contact Mr. Gary Cobb at (512) 239-2364 or Mr. Allan Posnick at (512) 239-2364 in the TNRCC's Federal Facilities Restoration Team, Mail Code MC127.

Sincerely,



Paul S. Lewis, Acting Manager
Corrective Action Section
Remediation Division

PL/gc

cc: Mr. Bob Morris, TNRCC Region 15 Office - Harlingen.
Ms. Tennie Larson, Remediation Section (NC)
Mr. David Neleigh, EPA Region 6, Federal Facilities and New Mexico Section

00015

