

19 July 1985

SCOPE OF WORK

A-E: Harding-Lawson Associates

CONTRACT NO.:

1. Installation and Location: Ft. Ord, CA
2. Authorization: DA Form 2544, Headquarters, 7th Infantry Division and Ft. Ord, ATTN: AFZW-DE-E, Ft. Ord, California, dated 4 February 1985.
3. Project Title: Hazardous Waste Investigation and Remedial Action, Ft. Ord, California.
4. Description of Work and Services: The work and services shall be for professional design, engineering, and analytical services for the following:
 - a. Remedial investigation (RI) and preparation of a feasibility study (FS) to develop alternatives for remedial action (RA) for the hazardous waste contamination of both soil and groundwater at the Fritsche Army Airfield Burn Pit Area, Ft. Ord, California. The study will include at least three (3) alternatives for remedial action and will provide economic data for all alternatives (Code B estimate per Sacramento District Cost Estimate per Sacramento District Cost Estimating Guide, dated May 1985), to include life cycle costs of post remedial action monitoring and maintenance. All alternatives will conform to any mandatory Federal, State, or local requirements for remedial actions at hazardous waste sites. The feasibility study will include remedial investigation sampling, testing and monitoring data and schemes, as well as proposed post-remedial action sampling, testing and monitoring schemes. Prior to any sampling, testing, or monitoring, a Site Quality Assurance and Sampling Plan shall be submitted to the Sacramento District for review and approval. Prior to, and before an RI or FS work shall be undertaken, a Site Specific Safety Plan shall be submitted to the Sacramento District for review and approval.
 - b. Site investigation and preparation of a feasibility study for the sampling, testing, and monitoring of possible surface, subsurface, and groundwater contamination of the Fritsche Army Airfield Sewage Treatment Area at Ft. Ord, California. The study shall address the placement of at least one monitoring well in the area, with recommendations for more wells or other monitoring techniques, if needed. The study will include economic data on all proposed activities (Code B estimate per Sacramento District Cost Estimating Guide), to include life cycle costs for any long term monitoring or maintenance schemes recommended. Prior to any site investigation-/feasibility study work involving sampling testing or monitoring in the sewage treatment area at Site Quality Assurance and Sampling Plan and a Site Specific Safety Plan shall be submitted for review and approval to the Sacramento District.

Enclosure 4

c. Preparation of a Feasibility Study for the design of a Ft. Ord Fire Department Practice Burn Pit Area for permanent use. The facility will be placed in the same location as the current Fritsche Army Airfield Burn Pit Area. The facility will incorporate the functional requirements of the current Burn Pit Area and shall meet Federal, State, or local requirements to insure no contamination of the surrounding area or groundwater occurs from its use. The study shall provide at least two (2) design alternatives for the facility, to include economic data (Code B estimates per Sacramento District Cost Estimating Guide).

d. (Optional) Preparation of the remedial action plan for the hazardous waste contamination at the Fritsche Army Airfield Burn Pit Area. The remedial action plan shall be prepared in accordance with Federal, State of California, and local agency requirements. The remedial action plan shall be accomplished by developing and refining the alternative chosen by the Government, as presented in the feasibility study for the plan of remedial action of hazardous waste contamination at the Fritsche Army Airfield Burn Pit Area, and as modified by the review comments. The remedial action plan design will be prepared as a final design document in accordance with the Sacramento District A-E Design Guide books.

e. (Optional) Preparation of the final design for the Ft. Ord Fire Department Practice Burn Pit Area. The final design shall be prepared in accordance with the format and instructions in the Sacramento District A-E Design Guide books. The design shall be accomplished by developing and refining the design alternative chosen by the Government as presented in the feasibility study for the design of a Ft. Ord Fire Department Practice Burn Pit Area, and as modified by review comments.

f. (Optional) The A-E shall attend conferences during study, design and construction phases on a per man-day basis (1st day, 2nd, and all subsequent days up to the 5th day). The conference will be when requested by the Sacramento District representative. A trip report will be finished for each visit to the District representative within 7 calendar days of the conference. Conferences will be held at Ft. Ord, California.

5. References:

a. SPKED-M Conference Minutes dated 3 June 1985, subject: Hazardous Waste Contamination, Ft. Ord, California.

b. Ft. Ord Burn Pit Area Spill clean up plan, ^{prepared} proposed by Richisin and Associates, Inc., dated December 1984.

c. A-E Guide Volume I, General Instructions, January 1985.

d. Sacramento District Military Cost Estimating Guide, 1 May 1985.

e. A-E Guide, Volume 3, Specifications, October 1984.

f. Department of the Army, U.S. Army Toxic and Hazardous Materials Agency, Geotechnical Requirements for Drilling, Monitor Wells, Data Acquisition, and Reports, May 1983. ✓

g. U.S. Army Toxic and Hazardous Materials Agency, Sampling and Chemical Analysis, Quality Assurance Program, April 1982. ✓

h. ER 385-1-92, Safety and Occupational Health Document Requirements for Hazardous Waste Site Remedial Actions, 30 August 1984.

6. Submittals:

a. Site Specific Health and Safety Plans. Site Specific Health Plans will be prepared in accordance with ER 385-1-92, and submitted in 5 copies to the District representative (1 reproducible Original and 4 copies). Plans for both the fire Burn Pit and the Sewage Treatment Area will be submitted.

b. Site Quality Assurance and Sampling Plans for both the Fire Burn Pit and Sewage Treatment area will be submitted in 5 copies to the District representative (1 reproducible original and 4 copies).

c. Feasibility studies: completed feasibility studies shall be on 8½" x 11" white bond paper, neatly bound. all oversize drawings shall be folded down to 8½" x 11". The submittal shall consist of 30 copies of each study (1 reproducible original and 29 copies).

d. Final Designs: When options are exercised, final designs submitted shall constitute 100% of the total design effort and shall include the following:

- (1) Basis of Design of Design Analysis
- (2) Contract Specifications
- (3) Contract Drawings
- (4) Project Control Estimate (Code "C")

(5) Designs and required formats shall be in accordance with the following:

(a) A-E Guide, Volume 1, General Instructions, dated January 1985.

(b) Sacramento District Cost Estimating Guide, dated May 1985.

(c) A-E Guide, Volume 3, Specifications, dated October 1984.

(d) All final design submittals shall be made in original form except as noted hereinafter. Sepias, brownline reproducibles, or blue-line prints are not acceptable. Upon completion of final design documents, the A-E shall submit the originals of all documents and marked-up guide specifications to the Project Manager for review. Upon completion of corrections in accordance with review comments, the designers shall also submit, along with the originals, one printed set of all corrected documents, including drawings, specifications, design analysis and estimate, for backcheck review. The marked-up "District Master" for Government comments, completely annotated as to correction disposition, shall likewise be returned to the Project Manager for backcheck review.

(3) The Sacramento District will furnish, upon request, the following:

- (a) Technical Manuals, as applicable
- (b) Guide Specifications as applicable
- (c) Tracing Paper
- (d) Estimating form (SPD form 337 or 337a)
- (e) Graphic Scales, Key to finishes and miscellaneous

stick-ons

7. Period of Service:

a. The completed documents will be submitted in the following time schedule:

(1) Site Specific Safety Plans will be submitted (in 5 copies) within 5 days of notice to proceed and must be approved prior to actual site investigation/site work at the Ft. Ord sites.

(2) Site Quality Assurance and Sampling Plans will be submitted (in 5 copies) within 5 days of notice to proceed, and must be approved prior to actual site investigation/site work at the Ft. Ord sites.

(3) The draft Feasibility Study for Fritsche Army Airfield Hazardous Waste Contamination Remedial Action (in 30 copies) will be submitted ~~30~~ 30 calendar days from notice to proceed.

(4) The final Feasibility Study for Fritsche Army Airfield Hazardous Waste Contamination Remedial Action (in 30 copies) will be submitted 14 calendar days from receipt of review comments.

(5) The draft Feasibility Study for Fritsche Army Airfield Sewage Treatment Area (in 30 copies) will be submitted 45 calendar days from notice to proceed.

(6) The Final Feasibility Study for Fritsche Army Airfield Sewage Treatment Area will be submitted 14 calendar days from receipt of review comments.

(7) The draft Feasibility Study for the Ft. Ord Fire Department Burn Pit Area (in 30 copies) will be submitted ~~30~~ 30 calendar days from notice to proceed.

(8) The final Feasibility Study for the Ft. Ord Fire Department Burn Pit Area (in 30 copies) will be submitted in 14 calendar days from receipt of review comments.

(9) The final design for the Fritsche Army Airfield Hazardous Waste Contamination Remedial Action will be submitted 30 calendar days after

exercising option.

(10) The final design for the Ft. Ord Fire Department Burn Pit Area will be submitted 60 calendar days after exercising option.

b. The above time does not include review time by the Government, but includes transmittal time from A-E to Project Manager.

8. Public Affairs: Because of the nature of hazardous waste contamination and public reaction thereto, the A-E shall not make available to other public agencies, the news media, or public in general, disclosure of any data generated or reviewed under this contract. When approached by other public agencies or news media, the A-E shall refer them to the Ft. Ord Environmental Office or to the Sacramento Project Manager for comment. Reports and data generated under this contract shall become the property of the government and distribution to any other source by the A-E, unless authorized by the Project Manager, is prohibited.

9. The A-E is cautioned to take no guidance during the course of design from any other source except the Sacramento District representative.



HARVEY D. JONES
CPT, CE
Project Manager

DISTRIBUTION:

A-E: Harding-Lawson Associates
Tech Spt Br, DOA
Mil Proj Br, A-E Nego
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