



LAW

ENGINEERING AND ENVIRONMENTAL SERVICES

PROPOSAL FOR ADDITIONAL ENVIRONMENTAL SERVICES

**BAILEY ROAD CAMP
END OF BAILEY ROAD
FERNANDINA BEACH, FLORIDA**

LAW PROPOSAL NO. 93-3917E



LAW

ENGINEERING AND ENVIRONMENTAL SERVICES

December 28, 1993

Board of County Commissioners
c/o T. J. Greeson
Ex-Officio Clerk
Nassau County Courthouse
416 Centre Street, Room 9
Fernandina Beach, Florida 32034

Subject: **Proposal for Additional Environmental Services**
Bailey Road Camp
End of Bailey Road
Fernandina Beach, Florida
FDEP Facility No. 458521115
LAW Proposal No. 93-3917E

Dear Gentlemen:

Law Engineering, Inc. (LAW) is pleased to submit this proposal to conduct Additional Environmental Services for the subject site located at the end of Bailey Road in Fernandina Beach, Florida. This proposal was requested by Mr. William P. Lecher, P.E., on November 18, 1993 and includes our understanding of the project information and requirements as well as our proposed scope and schedule of activities, our estimated fee for performing these services and our Fee Schedule.

PROJECT INFORMATION

LAW conducted the Contamination Assessments for the Bailey Road Camp and prepared a Contamination Assessment Report (CAR) in September 1992 under LAW Project No. 444-06710.02. LAW later prepared a CAR Addendum and Initial Remedial Action (IRA) for the site as documented in reports prepared in September and August 1993 under LAW Project Nos. 444-06710.04 and .06.

After review of the CAR Addendum for the Bailey Road Camp the Florida Department of Environmental Protection (FDEP) requested additional environmental services be conducted at this camp in their letter dated November 11, 1993. The requested services in the letter were slightly modified during the conference call involving Mr. Tom Stodd, FDEP; Mr. Bill Lecher, Nassau County Engineer and Mr. Srinivas Kuchibotla, LAW on November 18, 1993. The attached scope of services for the camp reflect these modifications. As requested by Mr. Lecher the additional environmental services for the camp shall be presented as an extension to the existing contract with the Nassau County Board of Commissioners. The balance of the proposal contains our scope of services and a fee estimate.

LAW ENGINEERING, INC.

3901 CARMICHAEL AVENUE • P. O. BOX 5728
JACKSONVILLE, FLORIDA 32207
(904) 396-5173 • FAX (904) 396-5703

ONE OF THE LAW COMPANIES

SCOPE OF SERVICES

The purpose of this scope is to conduct the additional environmental services requested by the FDEP in their letter dated November 11, 1993 as modified during the November 18, 1993 conference call.

Task 1: Monitoring Well Installation

A shallow temporary well will be installed approximately 25 feet north of MW-8B. For the purposes of the fee estimate the depth of the shallow well is approximated at 15 feet below ground surface. Mr. Lecher during his phone conversation on December 14, 1993 informed LAW that monitoring well MW-8B was damaged by a vehicle. LAW has also included in the fee estimate costs to install a flush-mounted cover on the well to help prevent further damage.

The well will be constructed of 2-inch I.D., Schedule 40 PVC. The lower ten-foot long screened section of the well will have a 0.010-inch wide slotted openings. The temporary well shall be installed by hollow stem auger. A 20/30 gradation of silica sand will be used as a filter pack and this will be filled between the outside of the well screen and the inside of the 10-inch diameter borehole annulus. Approximately one foot of bentonite clay pellets will then be added up to the ground surface.

Drilling equipment in contact with the soil and groundwater will be steam-cleaned prior to the commencement of drilling and construction of each monitoring well. Upon completion of the installation, the well will be developed by surface pumping until the discharge water becomes relatively clear. Since the surface material is soil, the drill cuttings and development water from the well will be placed beside the corresponding wells.

Following installation of the monitoring well and stabilization of the groundwater, the actual elevation of each well will be established and the corresponding groundwater elevation will be measured. The groundwater elevation data will be used to compile a potentiometric contour map of the area and help establish the groundwater gradient. The temporary well shall be removed after the Contamination Assessment is approved by FDEP.

Task 2: Groundwater Sampling and Laboratory Analysis

As requested by Mr. Tom Stodd during the conference call on November 18, 1993, following installation and development of the groundwater monitoring well, groundwater samples will be collected from well MW-2B and the well to be installed in Task 1 for analyses by EPA Methods 602 and 610. The fee estimate is based on a standard four week turnaround.

Groundwater field sampling activities will be performed in general accordance with the provisions of the United States Environmental Protection Agency (USEPA) - Region IV Engineering Support Branch Standard Operating Procedures and Quality Assurance Manual, the guidelines set forth in the Florida Administrative Code (FAC) Chapter 17-160 - Quality Assurance Rule and the Health and Safety Plan in the CAR. Our approved Comprehensive Quality Assurance Plan is No. 910129G. Groundwater samples will be obtained using disposable teflon bailers. Prior to obtaining the groundwater samples for laboratory analysis, three to five well volumes of groundwater will be removed from the well.

Groundwater samples will be placed in appropriate containers supplied by the testing laboratory. The samples will then be packed in ice and shipped by over-night courier to Law Environmental National Laboratories in Pensacola, Florida.

Task 3: Waste Oil Tank Details

LAW shall obtain details on the waste oil tank from Nassau County and also record in the field whether staining and odors are observed in the soils in the vicinity of the tank. If stained soils are observed than removal and proper disposal of the stained soil would be necessary. The fee estimate does not provide any costs for verifying the above parameters and also does not include costs for removal and disposal of stained soils if observed in the vicinity of the tank.

Task 4: Assessment Report

Throughout the project, LAW will act as a technical resource and to the extent requested assist with regulatory compliance. The fee presented allows for two meetings and phone conversations (approximately five hours of professional time) with the regulatory agencies or Nassau County, but no additional reporting.

The data and conclusions of the aforementioned tasks shall be included in a Additional Environmental Services Report for the Bailey Camp

ESTIMATED FEES

Task 1: Monitoring Well Installation	\$ 1400.00
Task 2: Groundwater Sampling and Laboratory Analysis	\$ 800.00
Task 3: Waste Oil Tank Details	N/A
Task 4: Assessment Report	<u>\$ 1450.00</u>
TOTAL ESTIMATED FEES	\$ 3650.00

The actual fee for our services will be determined by the services expended in general accordance with the attached Fee Schedule. As noted earlier, we will monitor the study so as to reduce the scope from that noted above where warranted. To keep you informed of services performed, an invoice for completed services will be issued every four weeks. Invoices are due upon receipt. We will not exceed an amount of \$ 3650.00 for these additional services without written authorization from your office.

SCHEDULE

Based on our present schedule and laboratory turnaround time requirements a written report of our findings will be submitted in approximately eight weeks of the date of authorization. If this schedule does not meet your project deadlines, please notify our office so that a mutually agreeable schedule can be arranged to meet your requirements.

AUTHORIZATION

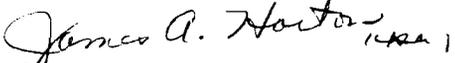
We assume these additional environmental services will be authorized by an extension to the existing contract with the Nassau County Board of Commissioners. Therefore, we have included below notation similar to that added in the past. Please provide us one copy of the attested proposal prior to proceeding with the above services.

If you have any further questions on the matter, please contact us at your convenience.

Sincerely,

LAW ENGINEERING, INC.


Srinivas Kuchibotla, E.I.
Project Environmental Engineer


James A. Horton, P.E.
Principal Engineer
Branch Manager

SK/JAH:ph

FOR NASSAU COUNTY USE ONLY:

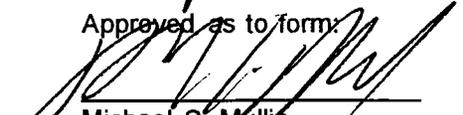
Approved this 10th day of January, 1994 by the Board of County Commissioners, Nassau County, Florida.

ATTEST:


T. J. Greeson, Ex-Officio Clerk

BOARD OF COUNTY COMMISSIONERS

John A. Crawford, Chairman

Approved as to form:

Michael S. Mullin
County Attorney

**LAW ENGINEERING, INC.
SCHEDULE OF FEES**

Bailey Road Camp
End of Bailey Road
Fernandina Beach, Florida

LAW Proposal No. 93-3917E

ENGINEERING SERVICES

Environmental Technician, per hour	\$	45.00
Staff Environmental Scientist/Geologist/Engineer, per hour	\$	75.00
Project Environmental Scientist/Geologist/Engineer, per hour	\$	80.00
Senior Environmental Scientist/Geologist/Engineer, per hour	\$	85.00
Principal Environmental Scientist/Geologist/Engineer, per hour	\$	95.00
Chief Engineer, P.E., per hour	\$	100.00
Corporate Environmental Consultant, per hour	\$	110.00
Clerical Support, per hour	\$	30.00
Draftsman, per hour	\$	30.00
CADD Operator, per hour	\$	40.00
Mileage, per mile	\$	0.40
Reimbursable Expenses, Cost divided by 0.8		
Subcontract Services, Cost divided by 0.8		

FIELD SERVICES*

Organic Vapor Analyzer (OVA), rental per day	\$	150.00
Ph and Conductivity Meter, rental per day	\$	10.00
Metal Tape Depth Gage, rental per day	\$	10.00
Hand Auger, rental per day	\$	10.00
Mileage, per mile	\$	0.40
Reimbursable Expenses, Cost divided by 0.8		
Subcontract Services, Cost divided by 0.8		

*Please add the appropriate engineering rates for execution of field services.

FEE SCHEDULE
PAGE - TWO -

DRILLING SERVICES

Mobilization and Transportation of Drilling Equipment, lump sum	\$	350.00
Drill and Install Monitor Wells (10-foot screen)		
2-inch PVC, per foot	\$	22.00
4-inch PVC, per foot	\$	26.00
Split-Spoon Samples, in conjunction with well installation, each	\$	22.00
Decontamination of Drilling Equipment, per hour	\$	140.00
Well Cover		
Above Ground, each	\$	175.00
Flush Mount, each	\$	225.00
Well Development, per hour	\$	135.00
55-Gallon Drums, each	\$	65.00
Time Rate, per hour	\$	130.00
Stand-by, per hour	\$	100.00
Grouting of Borings or Wells, per foot	\$	5.00
Piezometer Installation, per foot	\$	12.00