



December 12, 1988

88003,794.02

Mr. L. Hue Crosby
1414 Region Drive
San Leandro, California 94577

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HAZARDOUS MATERIALS
WASTE PROGRAM

Gentlemen:

Proposal
Subsurface Soil and Ground-Water Investigation
Dream Ride Limousine Service
5330 Foothill Boulevard
Oakland, California

Harding Lawson Associates (HLA) is pleased to present this proposal to perform a subsurface soil investigation at Dream Ride Limousine Service, Oakland, California. This proposal is based on a site visit and discussions with the current property owner Mr. L. Hue Crosby, and Mr. Abdo Allen of Allen Demolition Company. This current proposal includes revisions to a October 19, 1988, proposal and addresses Alameda County Health Care Services (ACHCS) comments presented in an October 31, 1988, letter to Dream Ride Limousine Service. The purpose of this investigation is to evaluate subsurface conditions in regards to the presence of possible soil and ground-water contamination associated with three former underground tanks at the site.

SITE DESCRIPTION

The site, which is located at 5330 Foothill Boulevard, is covered with asphalt paving except for the tank excavation in the southwestern corner. The property is bounded by Foothill Boulevard to the west, Belvedere Avenue to the south, and existing commercial and residential developments to the north and east. Overhead utility lines are present along the site borders on Foothill Boulevard and Belvedere Avenue and a cyclone fence encloses the site.

BACKGROUND

Conversations with L. Hue Crosby and Abdo Allen indicate that three 5,000 gallon underground fuel tanks were removed from the site on July 29, 1988. These tanks were apparently used by a former service station until approximately 1984 when the property was purchased by Mr. Crosby. According to Mr. Crosby the tanks have been unused since he acquired the property. After removal of the tanks, six soil and two water samples were collected from the bottom of the excavation by

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Thermo Analytical Inc. of Richmond, California. The water is believed to have entered the excavation from a broken sewer pipe at the western end of the excavation. One sample was also collected from the stockpile of the excavated soils. The soil and water samples were chemically analyzed for total petroleum hydrocarbons (TPH) following EPA Modified Test Method 8015. The results of these analyses indicated maximum concentrations of 257 parts per million (ppm) TPH in a water sample, 627 ppm in an excavation soil sample, and 1,951 ppm in the stockpile soil sample. As a result of these findings the County of Alameda Health Care Services, Hazardous Materials Division (ACHCS) has required that an investigation be performed to determine the extent of the residual petroleum hydrocarbons in the soil and ground water.

SCOPE OF SERVICES

The objective of this investigation is to assess the presence of possible subsurface soil and ground-water contamination in the vicinity of three former underground fuel tanks. Based on this objective, the following scope of services is proposed and is limited to collecting soil samples from the excavation and stockpile, drilling one soil boring and installing a ground-water monitoring well, collecting soil and ground-water samples, performing chemical analysis, and preparing a report presenting the results of the investigation.

Task 1 - Subsurface Soil and Ground-Water Sampling

To evaluate the extent of soils containing residual petroleum hydrocarbons in the tank excavation, qualified HLA field personnel will observe the removal of additional soil from the bottom of the excavation. Soils removed from the excavation will be continuously screened in the field for the presence of hydrocarbon contamination using an organic vapor analyzer (OVA). Based on a previous visual evaluation of the excavation, the extent of contamination appears to be minor and may only require the removal of approximately 2 to 4 feet of soils from the bottom of the excavation. However, if field observations and OVA measurements indicate that significant contamination is present below these depths, additional soil removal may be required before the uncontaminated soils are encountered. Upon encountering uncontaminated soils, samples will be collected and submitted accompanied by chain-of-custody documentation to Curtis and Tompkins Laboratory in Berkeley, California, for analysis. Soil samples will be analyzed for the presence of light and heavy TPH using EPA Test Methods 5030/8015 and 3550/8015, respectively. These samples will also be analyzed for benzene, toluene, xylene, and ethylbenzene (BTXE) following EPA Test Methods 5030/8020.

Soil samples will also be collected from the stockpiled soils at a sampling frequency of four samples per 50 cubic yards. These samples will be composited (four samples per composite) and analyzed for the presence of light and heavy TPH using

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EPA Test Method 5030/8015 and 3550/8015, respectively. These samples will also be analyzed for BTXE following EPA Test Methods 5030/8020. Currently there appears to be approximately 200 cubic yards of stockpiled soils on site.

If the results of the chemical analyses indicate that uncontaminated soils in the excavation have been encountered, the excavation will be backfilled using appropriate backfill material. The suitability of the stockpiled soils for use as backfill will be based on the results of the chemical analyses of the composite samples. Field control, in the form of laboratory compaction tests on the backfill material and field density tests, should be performed during the backfilling operation.

Once the excavation is backfilled, one boring near the westerly end of the excavation will be drilled and converted to a ground-water monitoring well if ground water is encountered less than 50 feet below grade. Subsurface soil samples will be collected at approximately 5-foot intervals. Based on OVA measurement, selected samples will be submitted to Curtis and Tompkins for chemical analysis for light and heavy TPH following EPA Test Methods 5030/8015 and 3550/8015, respectively. These samples will also be analyzed for BTXE following EPA Test Methods 5030/8020. Ground-water samples will be collected from the well and analyzed to evaluate the possible presence of ground-water contamination associated with the former underground tanks. The well will be installed in accordance with HLA's standard Ground-Water Investigation Procedures which meet or exceed the California Regional Water Quality Control Board, San Francisco Bay Area region guidelines.

After development of the well, water samples will be collected and transported under chain of custody to a State-certified laboratory for analysis following EPA Test Methods 5030/8015 and 3550/8015 for light and heavy, TPH, respectively, and for BTXE using EPA Test Methods 5030/8020. Water pumped from the well during development and sampling will be stored on site in tanks until the water samples are analyzed and appropriate disposal procedures are implemented.

Task 2 - Report Preparation

We will prepare a report presenting the results of our investigation. The report will cover the scope of the investigation, investigative methodology, analytical results, logs of borings, data interpretation and conclusions regarding the presence of soil and ground-water contamination.

If the results of this investigation indicate that soils containing petroleum hydrocarbons extend to the ground-water table, additional ground-water monitoring wells will be required to better assess the extent of contamination and the direction

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of the ground-water gradient. However, if the contamination is found to be limited to the bottom of the excavation, additional monitoring wells may not be necessary.

SCHEDULE

After receipt of notice to proceed and regulatory approval, HLA will commence the proposed scope of work. Soil removal activities will be scheduled as soon as a backhoe is available and laboratory analysis will require approximately two weeks. Drilling activities will be scheduled immediately after the excavation is backfilled. Our report will be available approximately one week after we receive the ground-water laboratory results.

FEE

HLA proposes to perform the scope of services on a time-and-expense basis in accordance with the attached Service Agreement, Schedule of Charges, and General Conditions. Our estimated fee is \$13,400 which will not be exceeded without prior authorization. The increased fee of \$500 from our October 19, 1988, proposal is a result of additional chemical analysis required by ACHCS. A 20 percent retainer will be required before we can begin performing the proposed scope of work. A breakdown of the fee estimate is as follows:

Task 1 - Subsurface Soil and Ground-Water Sampling

HLA organization and field labor	\$3,400
HLA equipment	1,000
Drilling Subcontractor	2,000
Well Supplies	1,100
Chemical analysis (2-Week Turnaround)	<u>2,800</u>
Total Task 1	\$10,300

Task 2 - Report Preparation

Data analysis, report preparation, and project management	<u>\$3,100</u>
TOTAL	<u>\$13,400</u>

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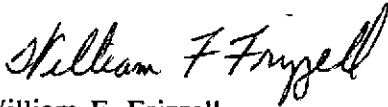
We trust this is the information you require at this time.

Yours very truly,

HARDING LAWSON ASSOCIATES



Michael D. Thompson
Project Engineer



William F. Frizzell
Principal Engineer

MDT/WFF/rmc/E5847-CT

Attachments: Service Agreement
General Conditions
Schedule of Charges
Fee Estimate

cc: Mary Jo Meyers-Barnes - ACHCS
Abdo Allen - Allen Demolition



Service Agreement

Parties This Agreement is made this 12th day of December, 1988
between Mr. L. Hue Crosby
subsequently referred to as "Client," and Harding Lawson Associates, subsequently referred to as "HLA"

Project By joining in this agreement, Client retains HLA to provide consulting services in connection with subsurface soil and ground-water investigation, 5330 Foothill Blvd, Oakland, California
subsequently referred to as "Project." Client's relationship to Project is that of owner

Scope By this agreement, the scope of HLA's services on Project is limited to:

- collecting soil samples from tank excavation and soil stockpiles
- installing one ground-water monitoring well
- collecting one ground-water sample
- preparing a letter report presenting the results of our investigation.

Exploration drilling, excavating, or clearing if necessary for performance of HLA's work will be performed by a contractor retained by client (excavation) and HLA (drilling)

General Conditions

The attached General Conditions to Service Agreement are incorporated into and made a part of this Service Agreement.

Contract Documents

The following documents further describe the scope and conditions of HLA's services: Our proposal, Subsurface Soil and Ground-Water Investigation, Dream Ride Limousine Service, 5330 Foothil Boulevard, Oakland, California

In case of conflict or inconsistency between the provisions of this Service Agreement (together with the attached General Conditions) and the provisions of any other contract documents, the provisions of this Service Agreement and General Conditions shall control.

Limitation of Liability

~~What follows follows~~

Client agrees to the limitation of professional liability described in the attached General Conditions.

~~CLIENT AGREES TO THE LIMITATION OF PROFESSIONAL LIABILITY DESCRIBED IN THE ATTACHED GENERAL CONDITIONS AND AGREES TO WAIVE ANY AND ALL RIGHTS TO RECOVER DAMAGES EXCEEDING THE AMOUNT OF SUCH LIMITATION.~~

Fee

HLA agrees to provide services covered by this Agreement on a time-and-expense basis for an estimated fee of \$2,000 which will not be exceeded without the clients prior approval.

This fee quotation is effective provided that HLA receives Client's authorization to proceed within 30 days of the date of this proposal.

If project requirements or the subsurface conditions encountered indicate that the scope of services covered by this Agreement should be revised, an additional Service Agreement or a written addendum to this Agreement shall be entered into to cover the revised scope and fee. Should Client authorize a revision in the scope of services without a revision to this agreement, HLA shall be compensated for services actually performed.

Authorized

HLA	Client
By: <u>William Frizzell</u>	By: _____
Title: <u>Principal Engineer</u>	Title: _____
Date: <u>December 12, 1988</u>	Date: _____