

Harding Lawson Associates



August 13, 1993

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Mr. Bob Griffis
Utility Trailer Manufacturing Company
17300 East Chestnut Street
City of Industry, California 91749

Budget Revision
Phase II Site Assessment
Utility Trailer Manufacturing Company
City of Industry, California

Dear Mr. Griffis:

INTRODUCTION

Harding Lawson Associates (HLA) presents this budget revision to Utility Trailer Manufacturing Company (UTM) for the revised Phase II site assessment and supplemental soil-gas survey requested by the Regional Water Quality Control Board - Los Angeles Region (RWQCB). The RWQCB, in its letter dated July 13, 1993, conditionally approved the addendum to the Phase II site assessment and supplemental soil-gas survey scope of work, dated April 15, 1993. A second addendum, addressing RWQCB concerns raised in its July 13 letter, and a revised project schedule were submitted to the RWQCB on July 30, 1993. These addenda increased the number of soil-gas sampling points and decreased the number of soil-matrix sampling points from the original scope of work. In addition, the method for soil-matrix sampling has been changed from the proposed piston-drive sampler to hollow-stem auger drilling (as requested by the RWQCB).

SOIL-GAS INVESTIGATION

The original scope of work included collection of soil-gas samples at 5-foot intervals at each of 13 locations, 2 additional samples at the former Tectyl tank, and 12 samples from the existing vapor probes (VP-1 through VP-4), installed as part of the Phase I scope of work, for a total of 66 soil-gas samples (not including quality control [QC] and purge volume test samples). The approved addenda propose collecting soil-gas samples at 6 and 14 feet below ground surface (bgs) (as in the original soil-gas survey). In summary, the total number of soil-gas sample locations has increased from 15 to 39. The number of samples to be collected is anticipated to be approximately 110 (including QC and purge volume test samples). Ten percent duplicate samples will be analyzed for QC purposes and three purge volume tests will be performed (as required by the RWQCB in its letter dated March 3, 1993) on the existing vapor probes.

SOIL-MATRIX SAMPLING

Eighteen soil borings are proposed in the addenda, six of which were added at the request of UTM. The borings will be drilled using hollow-stem auger drilling equipment. Attempts will be made to collect samples at 5-foot intervals. Waste material generated during drilling will be contained in DOT-approved drums for offsite disposal. The boreholes will be backfilled with hydrated bentonite to approximately 10 feet bgs. Drill cuttings will be used to backfill the boreholes from approximately 10 feet to 2 feet bgs,

Engineering and
Environmental Services

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as approved by the RWQCB in a meeting with UTM and HLA on April 1, 1993. The boreholes will be completed with a concrete cap from 2 feet bgs to grade.

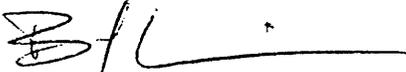
Following receipt of laboratory analysis results of the soil-matrix samples, the remaining drill cuttings will be characterized and manifested for appropriate offsite disposal. The disposal fees have been estimated; however, depending on actual concentrations, this estimate is subject to change.

CLOSURE

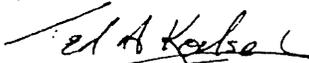
HLA appreciates the opportunity to provide hydrogeologic services to UTM at the City of Industry facility. Table 1 presents a fee estimate for the revised scope of work. Please complete the attached Work Authorization Form and return one copy to HLA. If you have any questions or comments, please call either of the undersigned.

Yours very truly,

HARDING, LAWSON ASSOCIATES



Bradford C.D. Eismen
Senior Geologist



Ted A. Koelsch, Ph.D., R.G.
Principal Hydrogeologist

BCDE/TAK/bce/hk
93UTM087.ltr

Attachments: Table 1 - Detailed Fee Estimate
Work Authorization Form

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Table 1. Detailed Fee Estimate

Task 1 - Project Planning Management

Management tasks including project planning, selection of and coordination with subcontractors, interface with UTM and RWQCB, offsite access with Somitex, and monitoring project progress and budget status.

HLA Labor

Principal Hydrogeologist	2	hours @	\$130 /hr	\$260
Project Geologist	40	hours @	\$77 /hr	\$3,080
Project Coordinator	10	hours @	\$54 /hr	\$540
Clerical	8	hours @	\$43 /hr	\$344
Computer	5	hours @	\$15 /hr	\$75
Communication and Reproduction				<u>\$84</u>

Total Task 1: \$4,383

Task 2 - Field Investigation

Underground utility clearance, soil-matrix sampling, installation of vapor extraction wells, vapor extraction pilot testing, and soil-gas sampling.

Task 2.1 - Underground Utility Clearance

HLA Labor

Project Geologist	1	hour @	\$77 /hr	\$77
Staff Geologist	28	hours @	\$63 /hr	\$1,764
Communication and Reproduction				<u>\$37</u>

Subtotal: \$1,878

HLA Costs

Truck	3	days @	\$64 /day	\$192
Field Supplies	3	days @	\$10 /day	<u>\$30</u>

Subtotal: \$222

Outside Services

Geophysical Clearance Survey (50 locations and locate well)	1	survey @	\$6,000 /ea	\$6,000
Markup (10%)				<u>\$600</u>

Subtotal: \$6,600

Total Task 2.1: \$8,700

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Table 1. Detailed Fee Estimate

Task 2.2 - Soil-Matrix Sampling

HLA Labor

Project Geologist	2	hours @	\$77 /hr	\$154
Staff Geologist	52	hours @	\$63 /hr	\$3,276
Communication and Reproduction				<u>\$69</u>

Subtotal: \$3,499

HLA Costs

Truck	4	days @	\$64 /day	\$256
FID	4	days @	\$125 /day	\$500
PID	4	days @	\$100 /day	\$400
Sample Tubes	250	tubes @	\$3 /ea	\$750
Field Supplies	4	days @	\$100 /day	<u>\$400</u>

Subtotal: \$2,306

Outside Services

Drilling Rig Mobilization	9	hours @	\$100 /hour	\$900
Borings	450	feet @	\$18 /foot	\$8,100
Drums	20	drums @	\$45 /ea	\$900
Mobile Laboratory	4	days @	\$1,600 /day	\$6,400
Markup (10%)				<u>\$1,630</u>

Subtotal: \$17,930

Total Task 2.2: \$23,735

Task 2.3 - VES Well Installation

HLA Labor

Project Geologist	2	hours @	\$77 /hr	\$154
Staff Geologist	12	hours @	\$63 /hr	\$756
Communication and Reproduction				<u>\$18</u>

Subtotal: \$928

HLA Costs

Truck	1	day @	\$64 /day	\$64
FID	1	day @	\$125 /day	\$125
PID	1	day @	\$100 /day	\$100
Sample Tubes	50	tubes @	\$3 /ea	\$150
Field Supplies	1	day @	\$100 /day	<u>\$100</u>

Subtotal: \$539

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Table 1. Detailed Fee Estimate

Outside Services

Concrete Cutting				\$300
Drilling Rig Mobilization	3	hours @	\$100 /hour	\$300
Well Installation	35	feet @	\$49 /ft	\$1,715
Drums	4	drums @	\$45 /ea	\$180
Mobile Laboratory	1	day @	\$2,000 /day	\$2,000
Markup (10%)				<u>\$450</u>
			Subtotal:	<u>\$4,945</u>
			Total Task 2.3:	\$6,412

Task 2.4 - Vapor Extraction Test

HLA Labor

Associate Engineer	2	hours @	\$112 /hr	\$224
Senior Scientist	4	hours @	\$95 /hr	\$380
Project Engineer	8	hours @	\$77 /hr	\$616
Engineering Technician	26	hours @	\$59 /hr	\$1,534
Communication and Reproduction				<u>\$55</u>
			Subtotal:	\$2,809

HLA Costs

Truck	2	days @	\$64 /day	\$128
PID	2	days @	\$100 /day	\$200
Field Supplies	2	days @	\$125 /day	<u>\$250</u>
			Subtotal:	\$578

Outside Services

Pilot Test Trailer and Technician	2	days @	\$2,000 /day	\$4,000
Analytical Fees	8	samples @	\$402 /sample	\$3,216
Markup (10%)				<u>\$722</u>
			Subtotal:	<u>\$7,938</u>
			Total Task 2.4:	\$11,325

Task 2.5 - Soil-Gas Sampling

HLA Labor

Project Geologist	8	hours @	\$77 /hr	\$616
Staff Geologist	90	hours @	\$63 /hr	\$5,670
Communication and Reproduction				<u>\$126</u>
			Subtotal:	\$6,412

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Table 1. Detailed Fee Estimate

<u>HLA Costs</u>				
Truck	7	days @	\$64 /day	\$448
PID	2	days @	\$100 /day	\$200
Temporary Probes				\$250
Backfill material				\$150
Field Supplies	7	days @	\$75 /day	<u>\$525</u>
			Subtotal:	\$1,573
<u>Outside Services</u>				
Soil-Gas Subcontractor				\$13,000
Concrete Coring				\$650
Analytical Fees	10	samples @	\$402 /sample	\$4,020
Markup (10%)				<u>\$1,767</u>
			Subtotal:	\$19,437
			Total Task 2.5:	<u>\$27,422</u>
			Total Task 2:	\$77,593

Task 3 - Data Analysis and Assessment Report Preparation

Analysis and interpretation of data collected during field program, report development and submittal to RWQCB.

<u>HLA Labor</u>				
Principal Hydrogeologist	6	hours @	\$130 /hr	\$780
Associate Engineer	2	hours @	\$112 /hr	\$224
Senior Geologist/Engineer	80	hours @	\$95 /hr	\$7,600
Project Geologist/Engineer	8	hours @	\$77 /hr	\$616
Staff Geologist	16	hours @	\$63 /hr	\$1,008
Engineering Technician	6	hours @	\$54 /hr	\$324
Drafting with CAD	6	hours @	\$79 /hr	\$474
Technical Editor	4	hours @	\$54 /hr	\$216
Word Processing	8	hours @	\$50 /hr	\$400
Clerical	5	hours @	\$43 /hr	\$215
Computer	10	hours @	\$15 /hr	\$150
Communication and Reproduction				<u>\$237</u>
			Total Task 3:	\$12,244

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Table 1. Detailed Fee Estimate

Task 4 - Waste Disposal

Characterization, manifesting, and disposal of drilling generated wastes

HLA Labor

Project Geologist	2	hours @	\$77 /hr	\$154
Technician	3	hours @	\$95 /hr	\$285
Communication and Reproduction				<u>\$6</u>

Subtotal: \$445

HLA Costs

Truck	1	day @	\$64 /day	\$64
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Subtotal: \$64

Outside Services

Drum Disposal	24	each @	\$140 /ea	\$3,360
Transportation				\$300
Analytical Fees	3	sample @	\$350 /sample	\$1,050
Markup (10%)				<u>\$471</u>

Subtotal: \$5,181

Total Task 4: \$5,690

Total Project: \$99,910

HARDING LAWSON ASSOCIATES
CONTINUING SERVICE AGREEMENT

W.A.F. No. 017

WORK AUTHORIZATION FORM

Project Title: Utility Trailer Manufacturing Company, Phase II Site Assessment

HLA Project Manager: B. Eismen

HLA Project No.: 23813

Telephone No.: 714/556-7992

Schedule - Start: August 1993

Complete: November 1993

Compensation for services performed shall be in the amount of \$99,910 without authorization from Utility Trailer Manufacturing Company.

Description and scope of authorized services: Phase II site assessment activities as described in HLA's workplan dated January 14, 1993, proposal dated January 28, 1993, and letter dated August 13, 1993.

Services provided herein by HLA shall be in accordance with the Terms and Conditions of the Environmental Consulting Agreement dated February 20, 1991.

AUTHORIZED BY:

HARDING LAWSON ASSOCIATES

By: Ted A. Karbach

Title: Principal Hydrogeologist

Date: August 16, 1993

AUTHORIZED BY:

UTILITY TRAILER MANUFACTURING CO.

approved original on 8/20/93 *JK*

By: _____

Title: _____

Date: _____

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