

September 15, 1992



**CERTIFIED
ENVIRONMENTAL
CONSULTING INC.**

9207011010

REF: 157-808.RPT

Ms. Susan Hugo
Alameda County Health Agency
Department of Environmental Health
80 Swan Way, Room 200
Oakland, CA 94621
(510) 271-4320
(510) 569-4757 FAX

STIP 3676

**SUBJECT: Soil Remediation Report for Hill Lumber Company, 1259 Brighton Avenue,
Albany, CA 94706**

Dear Ms. Hugo:

Certified Environmental Consulting, Inc. (CEC) is pleased to submit the following Soil Remediation Report on behalf of Hill Lumber in Albany. In brief, soils were successfully excavated to the limits of contamination with the exception of some inaccessible soils below the foundation of the warehouse and office building, below a gas line on Hill Lumber property, and below a buried water conduit on BART property. It appears that a small amount of hydrocarbon-contaminated soils remain in relatively narrow plumes extending westward of the tank locations. Groundwater monitoring wells have not yet been installed. We do not recommend installing downgradient monitoring wells until the limits of contamination have been determined.

We declare, under penalty of perjury, that the information and/or recommendations contained in the attached report are true and correct.

If you have any questions or comments, please call us at 1-800-447-0171.

Sincerely,

Tom Suggs
Hydrogeologist

Stanley L. Klemetson, Ph.D., P.E.
Vice President

cc: Ralph Hill, Hill Lumber Company
Richard Hiatt, RWQCB

Enclosures: Report of Soil Remediation

92-157-808

**REPORT OF SOIL REMEDIATION AT
HILL LUMBER COMPANY
1259 BRIGHTON AVENUE, ALBANY, CA 94706**

CEC PROJECT NO. 92-157-808

Prepared for

Mr. Ralph Hill
Hill Lumber Company
1259 Brighton Avenue
Albany, CA 94706
(510) 525-1000

Submitted to

Ms. Susan Hugo
Alameda County Health Agency
Department of Environmental Health
80 Swan Way, Room 200
Oakland, CA 94621
(510) 271-4530
FAX (510) 569-4757

Prepared by

Certified Environmental Consulting
140 West Industrial Way
Benicia, CA 94510-1016
(707) 745-0171 / (800) 447-0171
FAX (707) 745-0163

September 15, 1992

TABLE OF CONTENTS

LIMITATIONS	1
INTRODUCTION	2
Objectives and Project Description	2
Site Location and Description	2
Site History and Use	2
Previous Subsurface Investigations	2
SOIL REMEDIATION	5
INVESTIGATIVE METHODS USED	6
Soil Sampling	6
Water Sampling	6
LOCAL AND REGIONAL HYDROGEOLOGY	8
EXTENT OF GROUNDWATER CONTAMINATION	12
BENEFICIAL USES	12
CONCLUSIONS AND RECOMMENDATIONS	12
APPENDICES	
A. Laboratory Analytical Results	15
B. Alameda County Health Agency Inspector's Report	16

LIST OF FIGURES

1. Site Location Map	3
2. Site Layout Map	4
3. Sample Location Map	7

LIST OF TABLES

1. Laboratory Analytical Results for Soil Samples	10
2. Laboratory Analytical Results for Water Sample	11

LIMITATIONS

This report has been prepared in accordance with generally accepted environmental, geological, and engineering practices. No other warranty, either expressed or implied, is made as to the professional advice presented herein. The analysis, conclusions, and recommendations contained in this report are based upon site conditions as they existed at the time of investigation.

The conclusions presented in this report are professional opinions based solely upon visual observations of the site and vicinity and interpretation of available information as described in this report. The scope of services performed in execution of this investigation may not be appropriate to satisfy the needs of other users and the use of this document or its findings, conclusions, or recommendations, except as directed in this report, is the sole responsibility of the user.



A handwritten signature in black ink, appearing to read "Stanley L. Klemetson".

Stanley L. Klemetson, Ph.D., P.E.
Vice President
P.E. No. 400187

INTRODUCTION

Objectives and Project Description

The purpose of this report is to document the excavation of petroleum-contaminated soils surrounding two gasoline storage tanks at Hill Lumber Company (Figure 1) in Albany, California.

The project included excavation of approximately 257 cubic yards of soil contaminated by unauthorized releases from one two underground gasoline storage tanks.

Site Location and Description

Hill Lumber Company is located at 1259 Brighton Avenue near Masonic Avenue in Albany, California (Figure 1). El Cerrito Creek is about 300-400 ft. north of the lumber yard and the San Francisco Bay is about 1.0 mile to the west.

Site History and Use

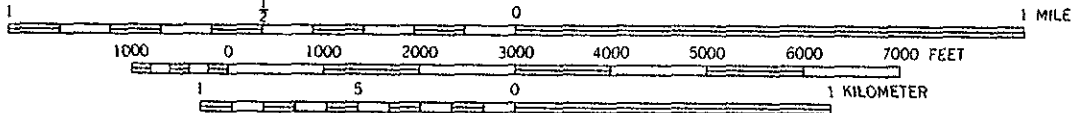
Hill Lumber Company has utilized the site as a lumber yard and retail lumber store since 1922. From 1950's to 1991, Hill Lumber maintained one 1,000-gallon underground gasoline tank, located below the sidewalk (Figure 2), for refueling fleet vehicles. From the 1930's to the 1950's, Hill Lumber utilized a 500-gallon underground leaded gasoline tank located in the loading dock area on the east side of the warehouse and office building. There had been no historic loss of inventory from either tank.

Previous Subsurface Investigations

On April 17, 1991, Semco, Inc. of Modesto, California removed both the 1,000-gallon tank and the 500-gallon tank. The concentration of total petroleum hydrocarbons in the gasoline range (TPH-G) below the 1000-gallon tank ranged from 2 to 3,700 mg/Kg. TPH-G concentrations below the 500-gallon tank ranged from 210 to 890 mg/Kg. There was no record of groundwater in the excavations. The excavations were backfilled to grade with pea gravel and repaved.



SCALE 1:24000



CONTOUR INTERVAL 20 FEET



FIGURE 1
SITE LOCATION MAP
HILL LUMBER COMPANY
1259 BRIGHTON AVE., ALBANY, CA
JOB NO. 92-157-808



140 WEST INDUSTRIAL WAY, BENICIA, CA 94510-0171
 (707) 745-0171 / (800) 447-0171 / (707) 745-0163 FAX

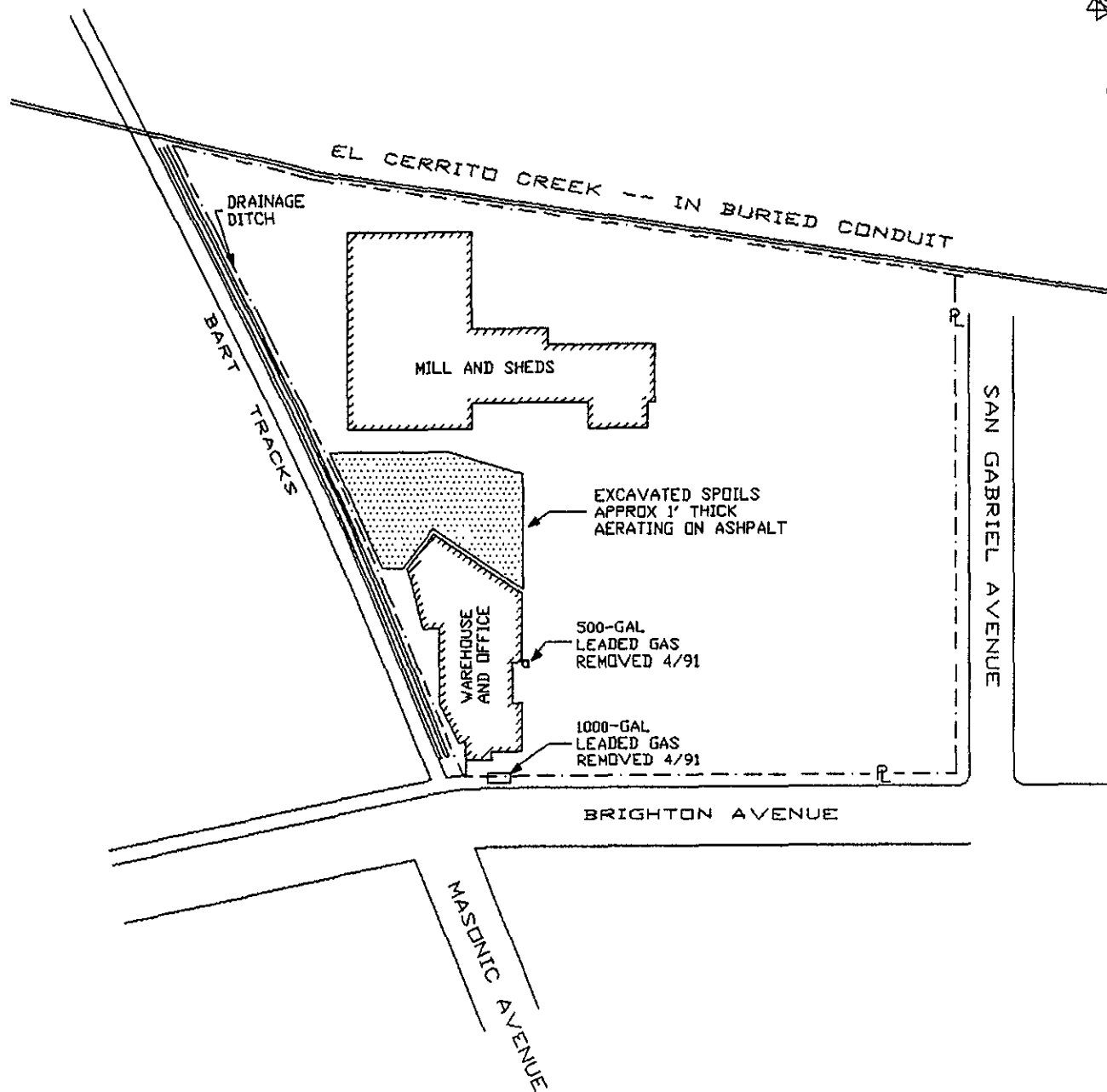


FIGURE 2
SITE LAYOUT MAP
HILL LUMBER COMPANY
1259 BRIGHTON AVE., ALBANY, CA
JOB NO. 92-157-808

1" = APPROX. 100'



CERTIFIED
ENVIRONMENTAL
CORPORATION

140 WEST INDUSTRIAL WAY, BENICIA, CA 94510-0171
(707) 745-0171 / (800) 447-0171 / (707) 745-0163 FAX

On July 11, 1991, Certified Environmental Consulting, (CEC) oversaw the drilling and sampling of four soil borings within about 10 ft. of the tank excavations. CEC also collected a water sample through an uncased boring in the gasoline tank excavation in the sidewalk. Soil samples registered less than detection limits, but the water sample contained 2,925 $\mu\text{g/L}$ TPH-G and 59 $\mu\text{g/L}$ benzene.

SOIL REMEDIATION

Between July 29 and August 4, 1992, BKH Excavators, Inc. removed approximately 257 cubic yards of soil from the contaminated region in from the sidewalk on Brighton Avenue and from the deck area on the east side of the shop building (Figure 2). CEC oversaw excavation and field-screened hydrocarbon levels at the limits of the excavation using an OVM.

Ms. Jennifer Eberle, of the Alameda County Health Agency was present during sampling on July 30, 1992. Her report is given as Appendix B.

INVESTIGATIVE METHODS USED

Soil Sampling

The limits of excavation were determined by screening soils in the field with an organic vapor meter. Verification soil samples were collected from the sidewalls and bottom of each excavation in the capillary fringe using a slide hammer with 2-in. I.D. stainless steel sleeves. Soil samples were collected, preserved, and transported in accordance with *Leaking Underground Fuel Tank (LUFT) Field Manual* procedures and as described in Appendix A of CEC's Work Plan for Monitoring Well Installation and Remediation dated June 17, 1992. Fuel hydrocarbon analyses were performed by McCampbell Analytical Laboratory of Pacheco, California.

All soil samples were analyzed for total petroleum hydrocarbons in the gasoline range (TPH-G) and benzene, toluene, ethylbenzene, and xylenes (BTEX) using GCFID 5030/EPA Method 8015/8020. Sample nos. 430188, 430194, and 430199 were also analyzed for total lead by ICAP.

Water Sampling

To determine whether groundwater has been impacted by a release from the 500-gallon tank in on the east side of the shop building, a backhoe bucket was first used to excavate a slot to about 14 ft. below grade for the collection of water. A groundwater grab sample (no. 430201) was then collected from the tank pit using a disposable teflon bailer. The sample was properly collected, preserved, and transported to McCampbell Analytical, where it was analyzed for TPH-G, TPH-D, and BTEX.

EXPLANATION

SAMPLE NO. (DEPTH)

G = TPH-G
 B = BENZENE
 T = TOLUENE
 E = ETHYLBENZENE
 X = XYLENE

ND NOT DETECTED

ALL CONCENTRATIONS IN mg/Kg (ppm)

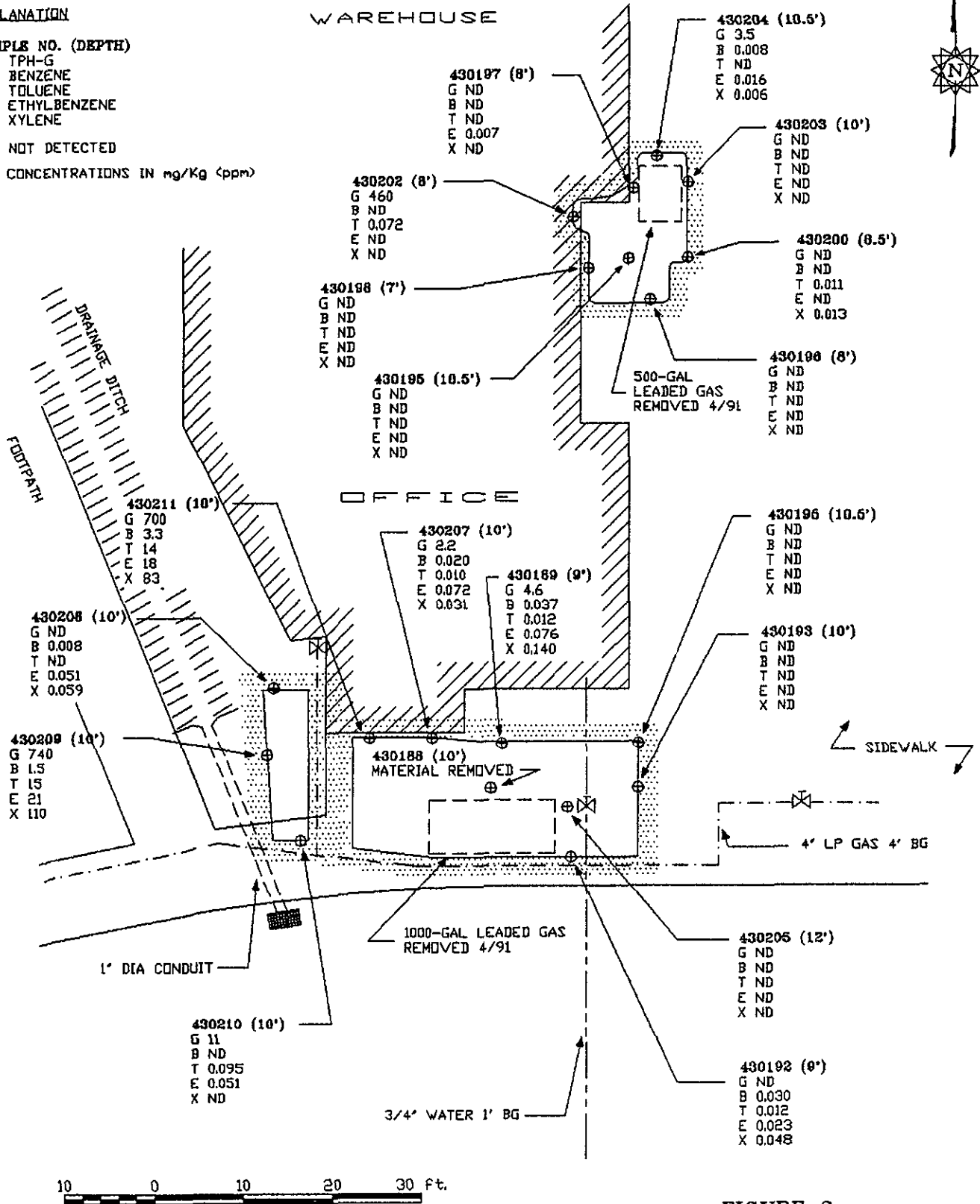


FIGURE 3
SAMPLE LOCATION MAP
HILL LUMBER COMPANY
1259 BRIGHTON AVE., ALBANY, CA
JOB NO. 92-157-808

LOCAL AND REGIONAL HYDROGEOLOGY

The site is located on the East Bay plain about 0.5 miles west of the Oakland Hills, about 1.0 mile east of the San Francisco Bay, and 0.4 miles northeast of Albany Hill. The property is bounded on the north by El Cerrito Creek, an ephemeral stream flowing into the Bay. The local topography is gently sloping to the west, toward the Bay.

The site is underlain by the Quaternary Older Alluvium of Hickenbottom and Muir (1988), an assemblage poorly consolidated to unconsolidated clay, silt and gravel, locally, about 100 ft. thick. The upper soil profile consists of at least 10 ft. of reddish brown to gray clay with sand overlying a fractured, permeable, red-brown sandy clay with minor gravel. The Older Alluvium is deposited on the flanks of a thick sequence of undivided Tertiary, Cretaceous and Jurassic bedrock (Hickenbottom and Muir, 1988), probably belonging to the Franciscan Complex. Bedrock outcrops in the Oakland Hills and in Albany Hill.

Brackish groundwater occurred at approximately 9.7 ft. below ground surface (bgs) on July 11, 1991 and at about 10.5 ft bgs on July 31, 1992. Groundwater presumably flows westward to northwestward toward El Cerrito Creek and the San Francisco Bay. Local groundwater is not a source of domestic water. There are no known beneficial uses for shallow groundwater below the site.

References:

Hickenbottom, K and Muir, K, 1988, Geohydrology and groundwater-quality overview of the East Bay Plain area, Alameda County, California, 205 (j) report: California Regional Water Quality Control Board, 83 p. with 5 plates.

Suggs, T. R., 1991, unpublished field notes: Certified Environmental Consulting, 1-800-447-0171.

EXTENT OF SOIL CONTAMINATION

Gasoline-contaminated soils were encountered below the sidewalk on the south side of the warehouse and office building in an odorous, discolored zone extending from about 8 ft. to 10.5 ft. bgs. On the east side of the building, contaminated soils were encountered at 6.5 ft. to 10.5 ft. bgs. In each excavation, the contaminated horizon was a clay with sand ranging in color from greenish tan to grayish green (where contaminated). On the east side of the building, a weak caliche layer occurs at about 6.5 ft. bgs, suggesting that in wet years, the top of the capillary fringe may be at about 6.5 ft. bgs. Static water levels were 10.5 ft. bgs in the sidewalk and 8.5 ft. bgs on the east side of the building. The disparity in water table elevations may be caused by artesian pressure in water bearing zones at 12 to 14 ft. depth.

Laboratory analytical results for soil samples collected in the excavation are given in Appendix A and are summarized in Table 1. Hydrocarbon-contaminated soils were removed to approximately 1.5 ft. below the water table (to about 12 ft. below grade) in the 1000-gallon tank area in the sidewalk. After overexcavation, all hydrocarbon contamination was successfully removed from the east side of the excavation (Figure 3). Soils were excavated as far as practical on the west, north and south sides of the pit but excavation was limited by the warehouse and office building, the street, and the underground conduit on the BART right of way. TPH-G concentrations in soil samples collected from the west and north sidewalls of the excavation ranged from less than detection limits to 740 mg/Kg (Figure 3). Benzene concentrations west and north sidewalls ranged from less than detection limits to 3,300 $\mu\text{g}/\text{Kg}$. TPH-G and BTEX registered less than detection limits in the pit bottom.

Hydrocarbon-contaminated soils were removed to approximately 2 ft. below the water table (to about 10.5 ft. below grade) in the 500-gallon tank area in the deck area east of the building. After overexcavation, all hydrocarbon contamination was successfully removed from the north, east, and south sides of the excavation (Figure 3). Soils were excavated as far as practical on the west, north and south sides of the pit but excavation was limited by the building.

Total lead concentrations in soil samples were within the range of normal background levels for soils (Conner, J. J. and Shacklette, H. T., 1975, Background Geochemistry of Some Rocks, Soils, Plants, and Vegetables in the Conterminous United States, U.S. Geological Survey Professional Paper 574-F).

Excavation spoils, spread out in a 1-ft.-thick layer on asphalt, are currently aerating on site (Figure 2). The average concentration of spoils was not been determined, but spoils will be sampled within the next 60 days to monitor the success of aeration.

Table 1. Laboratory Analytical Results for Soil Samples

Sample No.	Date Sampled	Depth (ft.)	TPH-G (mg/Kg)	Benzene (µg/Kg)	Toluene (µg/Kg)	Ethyl-benzene (µg/Kg)	Xylenes (µg/Kg)	Pb (mg/Kg)
430187	7/29/92	10	ND<5	ND<5	ND<5	ND<5	ND<5	NT
430188	7/29/92	10	1,300	2,400	43,000	26,000	160,000	17
430189	7/29/92	9	4.6	37	12	76	14	NT
430191	7/29/92	10	ND<1	ND<5	ND<5	ND<5	ND<5	NT
430192	7/29/92	9	ND<1	32	12	76	14	NT
430193	7/29/92	10	ND<1	ND<5	ND<5	ND<5	ND<5	NT
430193 A,B,C,D	7/30/92	spoils	ND<1	ND<5	ND<5	ND<5	ND<10	NT
430194 A,B,C,D	7/30/92	spoils	14	ND<5	100	190	270	12
430195	7/30/92	10.5	ND<1	ND<5	ND<5	ND<5	ND<10	NT
430196	7/30/92	8	ND<1	ND<5	ND<5	ND<5	ND<10	NT
430197	7/30/92	8	ND<1	ND<5	7	ND<5	ND<10	NT
430198	7/30/92	7	ND<1	ND<5	ND<5	ND<5	ND<10	NT
430199	7/30/92	7	75	50	150	150	440	5.7
430200	7/30/92	8.5	ND<1	ND<5	11	ND<5	13	NT
430202	7/31/92	8	460	ND<100	72	ND<100	ND<100	NT
430203	7/31/92	10	ND<1	ND<5	ND<5	ND<5	ND<5	NT
430204	7/31/92	10.5	3.5	8	ND<5	16	6	NT
430205	7/31/92	12	ND<1	ND<5	ND<5	ND<5	ND<5	NT
430206	8/2/92	8.5	ND<1	ND<5	ND<5	ND<5	ND<5	NT
430207	8/2/92	10	2.2	20	10	72	31	NT
430208	8/4/92	10	ND<1	8	ND<5	15	59	NT
430209	8/5/92	10	740	1,500	15,000	21,000	110,000	NT
430210	8/5/92	10	11	ND<5	95	51	ND<5	NT
430211	8/5/92	10	700	3,300	14,000	18,000	83,000	NT

NT: not tested
 ND: not detected

Table 2. Laboratory Analytical Results for Water Sample

Sample No.	Date Sampled	TPH-G ($\mu\text{g/L}$)	Benzene ($\mu\text{g/L}$)	Toluene ($\mu\text{g/L}$)	Ethyl-benzene ($\mu\text{g/L}$)	Xylenes ($\mu\text{g/L}$)	TPH-D ($\mu\text{g/L}$)
430201	7/31/92	480	2.9	1.0	6.3	1.6	100
Primary MCL		---	1	---	680	1750	---

NT: not tested

LDL: less than detection limits

MCL: California DOHS primary maximum contaminant levels as of 1991; provided for comparison only

EXTENT OF GROUNDWATER CONTAMINATION

The water sample collected in the pit on the east side of the building (430201) contained 480 $\mu\text{g/L}$ TPH-G, 2.9 $\mu\text{g/L}$ benzene, and 100 $\mu\text{g/L}$ TPH-D (Table 1). In July 1991, CEC also collected a water sample through an uncased boring near the gasoline tank excavation in the sidewalk. This water sample contained 2,925 $\mu\text{g/L}$ TPH-G and 59 $\mu\text{g/L}$ benzene. The lateral extent of groundwater contamination is not known, but the strong westward (downgradient) distribution of soil contamination from the respective tanks suggests that groundwater contamination may not extend appreciably eastward of the tanks.

BENEFICIAL USES

The Regional Water Quality Control Board's 1986 Water Quality Control Plan does not identify specific present or potential beneficial uses for the groundwater underlying the site. However, local groundwater is ultimately hydraulically connected to salt water in the South Bay.

No operational water supply wells are located within several miles of the site.

CONCLUSIONS AND RECOMMENDATIONS

After overexcavation, all hydrocarbon-contaminated soils were successfully removed from the east sides of the each excavation. Soils were excavated as far as practical on the west, north, and south in each pit, but excavation was limited by the warehouse and office building, the street, and the underground conduit on the BART right of way. In each excavation, remaining soil contamination appears to occur in relatively narrow plumes extending westward to northwestward of the tank locations.

Groundwater monitoring wells have not yet been installed. We do not recommend installing downgradient monitoring wells until the limits of contamination have been determined.

Because there are no groundwater supply wells near the site, hydrocarbon contamination in groundwater will not threaten human health or safety. Nor will groundwater contamination impair local beneficial uses.

The highest soil benzene concentrations were found in excavation sidewalls in the capillary fringe. Because this material is presently unsaturated and concrete or asphalt effectively seals the surface against leaching by precipitation, the dominant hydrocarbon flow mechanism is probably diffusion of liquid and vapor phases driven by concentration gradients. Flow of hydrocarbons in unsaturated soils, and consequent dissolution into underlying groundwater, is probably very slow.

APPENDIX A
Laboratory Analytical Results



CERTIFIED
ENVIRONMENTAL
CONSULTING INC.

Chain of Custody Record

140 West Industrial Way, Menlo Park, CA, 94510-1016
Ofc. (707) 745 0171 (800) 447-0171 Fax. (707) 745-0163

Date: 7/30/92 Sheet 1 of 1

Project Number: 92-157-808
Project Name: Hill Lumber
Address: 1258 Brighton Ave.
Albany Calif.

Sampler's Name _____

Sampler's Signature _____

Parameters

TPH as Gasoline 8015	TPH as Diesel 8015	TPH-G and B.T.E.X 8015/8020	B.T.X. & E 8020	Oil and Grease 5520	Volatile Organics (8010)	CAM Metals (17)	P. Pollutant Metals (15)	Base/Neu/Acids (Organic)	Pesticides 8140/8141	P6 by ICAP (Total)	Matrix (Soil/Water)
		X									
		X								X	
		X									
		X									
		X									
		X								X	
		X									

Lab Name: NET
Address: _____

Phone Number: _____

Turnaround Time

Rush
 24 Hour
 48 Hour
 5-Day

Report to: _____

Comments

1320h

1410h

Sample Number	Location	Date	Time
430193	A, B, C, D	7/30/92	12:30
430194	A, B, C, D	"	1630
430195	"	"	14:10
430196	"	"	14:30
430197	"	"	1600
430198	"	"	1540
430199	"	"	1550
430200	"	"	1750

Relinquished By	Date	Time	Received By	Date	Time
<u>Chen</u>	<u>7/30/92</u>	<u>1320</u> <u>1750</u>	<u>M. Nester</u>	<u>7/30/92</u>	<u>1320</u> <u>1750</u>
Dispatched By	Date	Time	Received in Lab By	Date	Time

Total Number of Containers This Sheet: 14
Method of Shipment: with MOB LAB to PLEASANTON
Special Shipment / Handling or Storage Requirements: _____

NET Pacific, Inc.

435 TESCONI CIRCLE
SANTA ROSA, CA 95401

TEL: 707-526-7200
FAX: 707-526-9623

CHAIN OF CUSTODY RECORD

PROJ. NO. 92-157-908 PROJECT NAME CERTIFIED ENV. CONS. HILL LUMBER ALBANY

SAMPLERS: (Signature)
Tom SUGGS

NO. OF CONTAINERS

REMARKS

SIA NO	DATE	TIME	COMP.	GRAB	STATION LOCATION
	07-30-92	1320	X		430193 A, B, C, D
	07-30-92	1410		X	430195
		1430		X	430196
		1540		X	430198
		1550		X	430199
		1600		X	430197
		1630	X	X	430194 A, B, C, D
		1750		X	430200

GAS/BTEX
Lead (Total)

refrigerated overnight in MOB 2 at 4°C (7-30-92 → 7-31-92)

← ALSO TAKE TO SR #HOLD

← TAKE ALSO TO SANTA ROSA #HOLD

(430197 ? CONFIRM TOI)

GAS/BTEX has already been done by Mobile Lab
430199 + 430194 need Total Lead

Relinquished by: (Signature)
Chou Suggs

Date / Time
07-30-92 1320
21750

Received by: (Signature)
M Heiten

Relinquished by: (Signature)

Date / Time

Received by: (Signature) 7/31/92
RLH

Relinquished by: (Signature)
M Heiten

Date / Time
07-31-92 0840

Received by: (Signature) 7-31-92
Lana M. Bennett

Relinquished by: (Signature)
Lana M. Bennett

Date / Time
7-31-92 1900

Received by: (Signature)

Relinquished by: (Signature)

Date / Time

Received for Laboratory by: (Signature)

Date / Time

Remarks



NATIONAL ENVIRONMENTAL TESTING, INC.

NET Pacific, Inc.
1072 Serpentine Lane
Suite D
Pleasanton, CA 94566
Tel: (510) 462-4004
Fax: (510) 462-4357

Mobile Field Services Lab # 11

CERTIFIED ENV. CONSULTANT
140 WEST INDUSTRIAL
BENICIA, CA 94510-1016

Date Analyzed : 07/30/92
Report Date : 08/05/92
Matrix : SOIL
Instrument # : IO

Project Name : 92-157-808

Project Manager : Tom Suggs

Sample Name	Date Sampled	Dilution Factor	8015-M	8020	8020	8020	8020
			Units mg/Kg Rpt. Limit=1.0	Units µg/Kg Rpt. Limit=5.0	Units µg/Kg Rpt. Limit=5.0	Units µg/Kg Rpt. Limit=5.0	Units µg Rpt. Limi
			TPH as GASOLINE	BENZENE	TOLUENE	ETHYL BENZENE	TOTAL XYLEN
430193 A,B,C,D	07/30/92	1	ND	ND	ND	ND	ND
430194 A,B,C,D	07/30/92	2	14	ND	100	190	270
430195	07/30/92	1	ND	ND	ND	ND	ND
430196	07/30/92	1	ND	ND	ND	ND	ND
430197	07/30/92	1	ND	ND	7.0	ND	ND
430198	07/30/92	1	ND	ND	ND	ND	ND
430199	07/30/92	10	75	50	150	150	440
430200	07/30/92	1	ND	ND	11	ND	13

7/20/92

CLIENT: Certified Environmental Consulting				REPORT TO: Tom Suggs (707) 554-7681 Pager				TURNAROUND TIME:																																																																																																																																																																																																			
ADDRESS: 140 W. Industrial Way Benicia CA 94510				BILLING TO: CEC				24 HR.		48 HR.		72 HR.																																																																																																																																																																																															
PHONE: (707) 745-0171 / (707) 745-0163 FAX								5 DAY		10 DAY		15 DAY		8 HR. <input checked="" type="checkbox"/>																																																																																																																																																																																													
PROJECT NAME/SITE: Hill Lumber Co., Albany, Calif. 92-157-808				POW/BILLING REFERENCE: 92-157-808																																																																																																																																																																																																							
SAMPLER: Tom Suggs				DATE: 7/29/92				ANALYSIS REQUESTED																																																																																																																																																																																																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>SAMPLE ID#/ STATION</th> <th>SAMPLE DESCRIPTION</th> <th>NUMBER OF CONT.</th> <th>TYPE CONT.</th> <th>SAMPLING TIME/DATE</th> <th>TPH-G/BTEX</th> <th>P6 by ZCAP</th> <th colspan="4"></th> <th>REMARKS</th> <th>SAMPLE NUMBER</th> </tr> </thead> <tbody> <tr> <td>245 430187</td> <td>10'</td> <td>1</td> <td></td> <td>7/27/92</td> <td>X</td> <td></td> <td></td><td></td><td></td><td></td> <td></td> <td></td> </tr> <tr> <td>250 430188</td> <td>10'</td> <td>1</td> <td></td> <td>"</td> <td>X</td> <td>X</td> <td></td><td></td><td></td><td></td> <td></td> <td></td> </tr> <tr> <td>251 430189</td> <td>9'</td> <td>1</td> <td></td> <td>"</td> <td>X</td> <td></td> <td></td><td></td><td></td><td></td> <td></td> <td></td> </tr> <tr> <td>— 430190</td> <td>10'</td> <td>1</td> <td></td> <td>"</td> <td></td> <td></td> <td></td><td></td><td>X</td> <td></td> <td></td> <td></td> </tr> <tr> <td>252 430191</td> <td>10'</td> <td>1</td> <td></td> <td>"</td> <td>X</td> <td></td> <td></td><td></td><td></td><td></td> <td></td> <td></td> </tr> <tr> <td>253 430192</td> <td>9'</td> <td>1</td> <td></td> <td>"</td> <td>X</td> <td></td> <td></td><td></td><td></td><td></td> <td></td> <td></td> </tr> <tr> <td>254 430193</td> <td>10'</td> <td>1</td> <td></td> <td>"</td> <td>X</td> <td></td> <td></td><td></td><td></td><td></td> <td></td> <td></td> </tr> <tr> <td colspan="4"></td> <td colspan="4"></td> <td colspan="4"> <input checked="" type="checkbox"/> ACCEPT <input checked="" type="checkbox"/> GOOD CONDITION <input checked="" type="checkbox"/> NEAR SEA/ARSENIC </td> </tr> <tr> <td colspan="4">RELINQUISHED BY: <i>Cham Sawyer</i></td> <td colspan="2">DATE: 7/28/92</td> <td colspan="2">TIME: 17:15</td> <td colspan="4">RECEIVED BY: <i>[Signature]</i></td> </tr> <tr> <td colspan="4">RELINQUISHED BY:</td> <td colspan="2">DATE:</td> <td colspan="2">TIME:</td> <td colspan="4">TRAVEL TIME:</td> </tr> <tr> <td colspan="4">RELINQUISHED BY:</td> <td colspan="2">DATE:</td> <td colspan="2">TIME:</td> <td colspan="4">ON SITE TIME:</td> </tr> <tr> <td colspan="4">RELINQUISHED BY:</td> <td colspan="2">DATE:</td> <td colspan="2">TIME:</td> <td colspan="4">OTHER:</td> </tr> <tr> <td colspan="4"></td> <td colspan="4"></td> <td colspan="4">WERE SAMPLES: YES NO</td> </tr> <tr> <td colspan="4"></td> <td colspan="4"></td> <td colspan="4">PRESERVED 7</td> </tr> <tr> <td colspan="4"></td> <td colspan="4"></td> <td colspan="4">IN GOOD CONDITION?</td> </tr> </tbody> </table>				SAMPLE ID#/ STATION	SAMPLE DESCRIPTION	NUMBER OF CONT.	TYPE CONT.					SAMPLING TIME/DATE	TPH-G/BTEX	P6 by ZCAP					REMARKS	SAMPLE NUMBER	245 430187	10'	1		7/27/92	X								250 430188	10'	1		"	X	X							251 430189	9'	1		"	X								— 430190	10'	1		"					X				252 430191	10'	1		"	X								253 430192	9'	1		"	X								254 430193	10'	1		"	X																<input checked="" type="checkbox"/> ACCEPT <input checked="" type="checkbox"/> GOOD CONDITION <input checked="" type="checkbox"/> NEAR SEA/ARSENIC				RELINQUISHED BY: <i>Cham Sawyer</i>				DATE: 7/28/92		TIME: 17:15		RECEIVED BY: <i>[Signature]</i>				RELINQUISHED BY:				DATE:		TIME:		TRAVEL TIME:				RELINQUISHED BY:				DATE:		TIME:		ON SITE TIME:				RELINQUISHED BY:				DATE:		TIME:		OTHER:												WERE SAMPLES: YES NO												PRESERVED 7											
SAMPLE ID#/ STATION	SAMPLE DESCRIPTION	NUMBER OF CONT.	TYPE CONT.	SAMPLING TIME/DATE	TPH-G/BTEX	P6 by ZCAP					REMARKS	SAMPLE NUMBER																																																																																																																																																																																															
245 430187	10'	1		7/27/92	X																																																																																																																																																																																																						
250 430188	10'	1		"	X	X																																																																																																																																																																																																					
251 430189	9'	1		"	X																																																																																																																																																																																																						
— 430190	10'	1		"					X																																																																																																																																																																																																		
252 430191	10'	1		"	X																																																																																																																																																																																																						
253 430192	9'	1		"	X																																																																																																																																																																																																						
254 430193	10'	1		"	X																																																																																																																																																																																																						
								<input checked="" type="checkbox"/> ACCEPT <input checked="" type="checkbox"/> GOOD CONDITION <input checked="" type="checkbox"/> NEAR SEA/ARSENIC																																																																																																																																																																																																			
RELINQUISHED BY: <i>Cham Sawyer</i>				DATE: 7/28/92		TIME: 17:15		RECEIVED BY: <i>[Signature]</i>																																																																																																																																																																																																			
RELINQUISHED BY:				DATE:		TIME:		TRAVEL TIME:																																																																																																																																																																																																			
RELINQUISHED BY:				DATE:		TIME:		ON SITE TIME:																																																																																																																																																																																																			
RELINQUISHED BY:				DATE:		TIME:		OTHER:																																																																																																																																																																																																			
								WERE SAMPLES: YES NO																																																																																																																																																																																																			
								PRESERVED 7																																																																																																																																																																																																			
								IN GOOD CONDITION?																																																																																																																																																																																																			

245
250
251
—
252
253
254

05210
 05211
 05212
 05213
 05214
 05215
 05216
 05217
 05218
 05219
 05220
 05221
 05222
 05223
 05224
 05225
 05226
 05227
 05228
 05229
 05230

WOB O & B METALS OTHER

PRESERVATIVE
 APPROPRIATE
 CONTAINERS

05210
 05211
 05212
 05213
 05214
 05215
 05216
 05217
 05218
 05219
 05220
 05221
 05222
 05223
 05224
 05225
 05226
 05227
 05228
 05229
 05230

McCAMPBELL ANALYTICAL INC.

110 2nd Avenue South, #D7, Pacheco, CA 94553

Tele: 510-798-1620 Fax: 510-798-1622

Certified Environmental Consultants 140 West Industrial Way Benecia, CA 94510-1016	Client Project ID: 92-157-808; Hill Lumber CO, Albany, CA	Date Sampled: 07/29/92
		Date Received: 07/29/92
	Client Contact: Tom Suggs	Date Extracted: 07/29/92
	Client P.O:	Date Analyzed: 07/29/92

Low Boiling Point (C6-C12) TPH* as Gasoline and BTEX*

EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFTD(5030)

Lab ID	Client ID	Matrix	TPH(G) ⁺	Benzene	Toluene	Ethyl Ben- zene	Xylenes	% Rec. Sur- rogate
105749	430187	S	ND	ND	ND	ND	ND	97
105750	430188	S	1300,a	2.4	43	26	160	92
105751	430189	S	4.6,a	0.037	0.012	0.076	0.14	95
105752	430191	S	ND	ND	ND	ND	ND	96
105753	430192	S	ND,a	0.032	0.012	0.023	0.048	96
105754	430193	S	ND,e	ND	ND	ND	ND	97
Detection Limit unless otherwise stated; ND means Not Detected		W	50 ug/L	0.5	0.5	0.5	0.5	
		S	1.0 mg/kg	0.005	0.005	0.005	0.005	

*water samples are reported in ug/L and soils in mg/kg

cluttered chromatogram; sample peak co-elutes with surrogate peak

⁺The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) predominately unmodified or weakly modified gasoline; b) heavier gasoline range compounds predominate (aged gasoline?); c) lighter gasoline range compounds predominate (the most mobile gasoline compounds); d) heavy and light gasoline range compounds predominate (aged gasoline together with introduced light compounds?); e) gasoline range compounds predominate; no recognizable pattern; f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds predominate.

E4

Edward Hamilton, Lab Director

QC REPORT

Date: 07/27-07/30/92

Matrix: Soil

Analyte	Concentration (mg/kg)			Amount Spiked	% Recovery		
	Sample	MS	MSD		MS	MSD	RPD
TPH (gas)	0.000	2.252	2.220	2.03	111	109	1.4
Benzene	0.000	0.200	0.200	0.2	100	100	0.0
Toluene	0.000	0.194	0.196	0.2	97	98	1.0
Ethyl Benzene	0.000	0.198	0.200	0.2	99	100	1.0
Xylenes	0.000	0.586	0.592	0.6	98	99	1.0
TPH (diesel)	0	168	172	150	112	115	2.4
TRPH (oil & grease)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

$$\% \text{ Rec.} = (\text{MS} - \text{Sample}) / \text{amount spiked} \times 100$$

$$\text{RPD} = (\text{MS} - \text{MSD}) / (\text{MS} + \text{MSD}) \times 2 \times 100$$



CERTIFIED ENVIRONMENTAL CONSULTING INC.

140 West Industrial Way, Benicia, CA, 94510-1016
 Otc. (707) 745 0171 (800) 447-0171 Fax. (707) 745-0163

Chain of Custody Record

ANALYZE

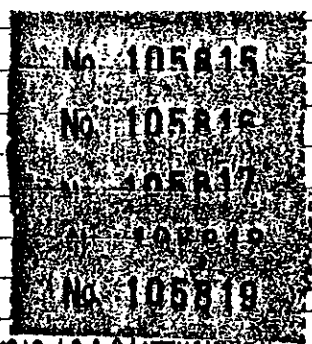
Date 7/31/92 Sheet 1 of 1

Project Number: 92-157-503
 Project Name: Hill Lumber Co
 Address: 1259 Brighton Ave

Sampler's Name: Thomas Suggs
 Sampler's Signature: [Signature]

Lab Name: Mc Campbell
 Address: _____
 Phone Number: _____
 Turnaround Time:
 Rush 24 Hour 48 Hour 5-Day
 Report to: _____

Sample Number	Location	Date	Time	Parameters										Matrix (Soil/Water)		
				TPH as Gasoline 8015	TPH as Diesel 8015	TPH-G and B.T.E.X 8015/8020	B.T.X & E 8020	Oil and Grease 5520	Volatile Organics (8010)	CAM Metals (17)	Pt. Pollutant Metals (13)	Base/New Acids (Organic)	Pesticides 8140/8141			
430193	A,B,C,D															
430194	TR5															
430201	A,B,C,D	7/3/92	13:00		X	X										W
430202			13:30			X										S
430203			14:00			X										S
430204			14:15			X										S
430205			14:30			X										S



ICE/T°
 GOOD CONDITION
 HEAD SPACE ABSENT
 PRESERVATIVE
 APPROPRIATE CONTAINERS

NO. 105815
NO. 105816
NO. 105817
NO. 105818
NO. 105819

Relinquished By	Date	Time	Received By	Date	Time
<u>Thomas Suggs</u>	<u>7/31/92</u>	<u>17:00</u>	<u>[Signature]</u>	<u>7-31-92</u>	<u>17:00</u>
Dispatched By	Date	Time	Received in Lab by	Date	Time

Total Number of Containers This Sheet: _____
 Method of Shipment: _____
 Special Shipment / Handling or Storage Requirements: _____

McCAMPBELL ANALYTICAL INC.

110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

Certified Environmental Consultants 140 West Industrial Way Benecia, CA 94510-1016			Client Project ID: 92-157-808; Hill Lumber Company				Date Sampled: 07/31/92	
			Client Contact: Tom Suggs				Date Received: 07/31/92	
			Client P.O:				Date Extracted: 08/01/92	
							Date Analyzed: 08/01-08/02/92	
Low Boiling Point (C6-C12) TPH* as Gasoline and BTEX*								
EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID(5030)								
Lab ID	Client ID	Matrix	TPH(G) ⁺	Benzene	Toluene	Ethyl Ben- zene	Xylenes	% Rec. Sur- rogate
105815	430201	W	480,e	2.9	1.0	6.3	1.6	102
105816	430202	S	460,e	ND < 0.1	0.072	ND < 0.1	ND < 0.1	105
105817	430203	S	ND	ND	ND	ND	ND	96
105818	430204	S	3.5,e	0.008	ND	0.016	0.006	92
105819	430205	S	ND	ND	ND	ND	ND	95
Detection Limit unless otherwise stated; ND means Not Detected		W	50 ug/L	0.5	0.5	0.5	0.5	
		S	1.0 mg/kg	0.005	0.005	0.005	0.005	
*water samples are reported in ug/L and soils in mg/kg								
# cluttered chromatogram; sample peak co-elutes with surrogate peak								
+ The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) predominately unmodified or weakly modified gasoline; b) heavier gasoline range compounds predominate (aged gasoline?); c) lighter gasoline range compounds predominate (the most mobile gasoline compounds); d) heavy and light gasoline range compounds predominate (aged gasoline together with introduced light compounds?); e) gasoline range compounds predominate; no recognizable pattern; f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds predominate.								


 Edward Hamilton, Lab Director

Certified Environmental Consultants 140 West Industrial Way Benecia, CA 94510-1016	Client Project ID: 92-157-808; Hill Lumber Company	Date Sampled: 07/31/92
	Client Contact: Tom Suggs	Date Received: 07/31/92
	Client P.O:	Date Extracted: 08/02/92
		Date Analyzed: 08/02/92

Medium Boiling Point (C10-C23) TPH* as Diesel
 EPA methods modified 8015, and 3550 or 3510; California RWQCB (SF Bay Region) method GCFID(3550) or GCFID(3510)

Lab ID	Client ID	Matrix	TPH(D) ⁺
105815	430201	W	100,d
Detection Limit unless otherwise stated; ND means Not Detected	W	50 ug/L	
	S	10 mg/kg	

*water samples are reported in ug/L and soils in mg/kg
 # cluttered chromatogram; sample peak co-elutes with surrogate peak
 + The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) predominately unmodified or weakly modified diesel; b) diesel range compounds predominate; no recognizable pattern; c) diesel range compounds together with gasoline range compounds; d) gasoline range compounds predominate; e) medium boiling point pattern that does not match diesel(); f) one to a few isolated peaks present; g) oil range compounds predominate.

 Edward Hamilton, Lab Director

QC REPORT

Date: 07/31-08/02/92

Matrix: Soil

Analyte	Concentration (mg/kg)			Amount Spiked	% Recovery		
	Sample	MS	MSD		MS	MSD	RPD
TPH (gas)	0.389	2.450	2.280	2.03	102	93	7.2
Benzene	0.000	0.204	0.202	0.2	102	101	1.0
Toluene	0.010	0.202	0.200	0.2	96	95	1.0
Ethyl Benzene	0.000	0.204	0.204	0.2	102	102	0.0
Xylenes	0.018	0.610	0.606	0.6	99	98	0.7
TPH (diesel)	0	183	177	150	122	118	3.7
TRPH (oil & grease)	125	1060	1315	1000	94	119	21.5

$$\% \text{ Rec.} = (\text{MS} - \text{Sample}) / \text{amount spiked} \times 100$$

$$\text{RPD} = (\text{MS} - \text{MSD}) / (\text{MS} + \text{MSD}) \times 2 \times 100$$

QC REPORT

Date: 07/29-08/02/92

Matrix: Water

Analyte	Concentration (ug/L)			Amount Spiked	% Recovery		
	Sample	MS	MSD		MS	MSD	RPD
TPH (gas)	0.0	98.9	99.3	102	97	97	0.5
Benzene	0.0	10.8	11.3	10	108	113	4.5
Toluene	0.0	10.6	11.0	10	106	110	3.7
Ethyl Benzene	0.0	10.6	10.9	10	106	109	2.8
Xylenes	0.0	29.5	32.6	30	98	109	10.0
TPH (diesel)	0	887	866	1000	89	87	2.4
TRPH (oil & grease)	0	10500	10600	10000	105	106	0.9

$$\% \text{ Rec.} = (\text{MS} - \text{Sample}) / \text{amount spiked} \times 100$$

$$\text{RPD} = (\text{MS} - \text{MSD}) / (\text{MS} + \text{MSD}) \times 2 \times 100$$



CERTIFIED ENVIRONMENTAL CONSULTING INC.
140 West Industrial Way
Benicia, CA 94510
(707) 745-0171 FAX (707) 745-0163

Chain of Custody Record

Date 8/7/92 Sheet 1 of 1

Project Number: 92-157-808
Project Name: Hill Lumber Co
Client: _____
Contact: _____
Address: _____

Sampler's Name: Tom Suggs
Sampler's Signature: [Signature]

Sample Number	Date	Time	Location
430206	8/2/92	12:00	
430207	8/2/92	14:00	
430208	8/4/92	11:30	
430209	8/5/92	9:00	
430210	8/5/92	9:30	
430211	8/5/92	9:45	

Parameters										Other
Total Petroleum Hydrocarbons	Oil and Grease	CAAM Metals (18)	General Minerals	Pt. Pollutant Metals (15)	Basic/Neu/Acids (Organic)	Pesticides	Volatile Organics (601/602)	Volatile Organics (624)	Asbestos	PCB
<u>BTEX TPH-G/BTEX</u>										

Other
<u>[REDACTED]</u>

Lab Name: McCampbell
Address: Analytical
Phone Number: _____
Turnaround Time:
 Rush 24 Hour 48 Hour Normal
Report to: _____

Comments: _____

ACCEPTED ✓
GOOD CONDITION ✓
HEAD SPACE ABSENT ✓
PRESERVATIVE APPROPRIATE ✓
CONTAINERS ✓

WMS O & G METALS OTHER

Relinquished By	Date	Time	Received By	Date	Time
<u>Chrom Suggs</u>	<u>8/7/92</u>	<u>14:00</u>	<u>M. Tabji CCX720</u>	<u>8/7</u>	<u>14:00</u>
<u>M. Tabji CCX720</u>	<u>8/7/92</u>	<u>14:15</u>	<u>[Signature]</u>	<u>8-2-92</u>	<u>14:15</u>
Dispatched By	Date	Time	Received in Lab By	Date	Time

Total Number of Containers This Sheet: 6
Method of Shipment: Courier
Special Shipment / Handling or Storage Requirements: _____

McCAMPBELL ANALYTICAL INC.

110 2nd Avenue South, #D7, Pacheco, CA 94553

Tele: 510-798-1620 Fax: 510-798-1622

Certified Environmental Consultants 140 West Industrial Way Benecia, CA 94510-1016	Client Project ID: 92-157-808; Hill Lumber Co.	Date Sampled: 08/02-08/05/92
	Client Contact: Tom Suggs	Date Received: 08/07/92
	Client P.O:	Date Extracted: 08/07/92
		Date Analyzed: 08/08/92

Low Boiling Point (C6-C12) TPH* as Gasoline and BTEX*

EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID(5030)

Lab ID	Client ID	Matrix	TPH(G) ⁺	Benzene	Toluene	Ethyl Benzene	Xylenes	% Rec. Surrogate
105884	430206	S	ND	ND	ND	ND	ND	99
105885	430207	S	2,2,b	0.020	0.010	0.072	0.031	99
105886	430208	S	ND,b	0.008	ND	0.015	0.059	98
105887	430209	S	740,a	1.5	15	21	110	94
105888	430210	S	11,e	ND	0.095	0.051	ND	100
105889	430211	S	700,a	3.3	14	18	83	89
Detection Limit unless otherwise stated; ND means Not Detected		W	50 ug/L	0.5	0.5	0.5	0.5	
		S	1.0 mg/kg	0.005	0.005	0.005	0.005	

*water samples are reported in ug/L and soils in mg/kg

*cluttered chromatogram; sample peak co-elutes with surrogate peak

⁺The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) predominately unmodified or weakly modified gasoline; b) heavier gasoline range compounds predominate (aged gasoline?); c) lighter gasoline range compounds predominate (the most mobile gasoline compounds); d) heavy and light gasoline range compounds predominate (aged gasoline together with introduced light compounds?); e) gasoline range compounds predominate; no recognizable pattern; f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds predominate.

 Edward Hamilton, Lab Director

QC REPORT

Date: 08/04-08/07/92

Matrix: Soil

Analyte	Concentration (mg/kg)			Amount Spiked	% Recovery		
	Sample	MS	MSD		MS	MSD	RPD
TPH (gas)	0.000	1.925	1.885	2.03	95	93	2.1
Benzene	0.000	0.208	0.208	0.2	104	104	0.0
Toluene	0.008	0.206	0.208	0.2	99	100	1.0
Ethyl Benzene	0.000	0.204	0.204	0.2	102	102	0.0
Xylenes	0.000	0.614	0.606	0.6	102	101	1.3
TPH (diesel)	0	167	167	150	112	111	0.4
TRPH (oil & grease)	185	925	900	1000	74	72	2.7

$$\% \text{ Rec.} = (\text{MS} - \text{Sample}) / \text{amount spiked} \times 100$$

$$\text{RPD} = (\text{MS} - \text{MSD}) / (\text{MS} + \text{MSD}) \times 2 \times 100$$

CLIENT:
 ADDRESS: McCAMPBELL ANALYTICAL
 110 2nd AVE. SOUTH, #D7
 PACHECO, CA 94553
 PHONE: 794-1620 FAX: 794-1622

REPORT TO: ^{EX:} B. Haworth
 ANAL: Tom Suggs, C&C, Ben
 TURI ORDER # 7227
 BILLING TO: C&C, Ben
 24 HR. 48 HR. 72 HR.
 5 DAY 10 DAY 15 DAY

PROJECT NAME/SITE:
 C&C / 92-157-F08

PO# / BILLING REFERENCE:

SAMPLER: DATE:

SAMPLE ID# / STATION	SAMPLE DESCRIPTION	NUMBER OF CONT.	TYPE CONT.	SAMPLING TIME / DATE
430188	SOIL	1	B	7-29-92

Total Cont.	ANALYSIS REQUESTED										REMARKS	SAMPLE NUMBER
X											105730	

RELINQUISHED BY: DATE TIME:
 RELINQUISHED BY: DATE TIME:
 RELINQUISHED BY: PC / [Signature] DATE TIME: 7-30-92 1630

RECEIVED BY: TRAVEL TIME:
 RECEIVED BY: ON SITE TIME:
 RECEIVED IN LAB BY: [Signature]
 OTHER: WERE SAMPLES: YES NO
 PRESERVED? IN GOOD CONDITION?

CHROMALAB, INC.

5 DAYS TURNAROUND

Environmental Laboratory (1094)

August 6, 1992

ChromaLab File No.: 0792277

MCCAMPBELL ANALYTICAL

Attn: Ed Hamilton

RE: One soil sample for Total Lead analysis

Project Name: CEC/92-157-808

Date Sampled: July 29, 1992


Date Submitted: July 30, 1992

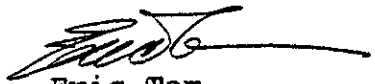
Date Analyzed: August 6, 1992

RESULTS:

<u>Sample I.D.</u>	<u>Total Lead (mg/Kg)</u>
430188	17
BLANK	N.D.
SPIKED RECOVERY	80%
DUPLICATE SPIKED RECOVERY	81%
DETECTION LIMIT	1.25
METHOD OF ANALYSIS	7420

ChromaLab, Inc.


Jack Kelly
Analytical Chemist


Eric Tam
Laboratory Director

SEMCO**JAMES C. DATEMAN PETROLEUM SERVICES, INC.**431 W. Hatch Rd. Modesto, Calif 95351
General & Engineering Contractors
(800) 533 9283
FAX (209) 524 0503**SEMCO****JAMES C. DATEMAN PETROLEUM SERVICES, INC.**1741 Leake St. San Mateo, Calif. 94402
General & Engineering Contractors
(415) 572 8033
FAX (415) 572 9734**CHAIN OF CUSTODY RECORD**

PROJECT NAME: <i>Ralph Hill</i>						Number of Containers	Analysis Required <i>TPH-G-D BTEX</i>					REMARKS			
SAMPLERS (signature): <i>Chuck Kep</i>															
Station Number	Date	Time	Comp.	GRA	Station Location										
#1-500	4/16	2:45		✓	#1-500-G-W-7'	1	✓	✓							
#2-500	4/16	2:55		✓	#2-500 Bot. Exc. 8 1/2'	1	✓	✓							
#3-500CS	4/16	3:00	✓		#3-500 Comp. Spoils	2	✓	✓							
#4-1KG	4/16	3:05	✓		#4-41KG Comp Spoils	3	✓	✓							
#5-1KG	4/16	3:08	✓		#5-1KG E-10'	1	✓	✓							
#6-1KG	4/16	3:20	✓		#6-1KG W-11'	1	✓	✓							
Relinquished by (signature): <i>Chuck Kep</i>						Date / Time: 4/17 12:30		Received by (signature): <i>Shonda Kuper</i>		Relinquished by (signature):		Date / Time		Received by (signature):	
Company or Agency: <i>SEMCO</i>								Company or Agency: <i>SEMCO</i>						Company or Agency:	
Relinquished by (signature): <i>Shonda Kuper</i>						Date / Time: 4/17 1:00 P.M.		Received by (signature): <i>William K...</i>		Relinquished by:		Date / Time		Received by (signature):	
Company or Agency: <i>SEMCO</i>								Company or Agency: <i>SEMCO</i>						Company or Agency:	
Relinquished by (signature):						Date / Time		Received for Laboratory by: (signature)		Date / Time		Remarks/Shipping Information			

07/02/1991 07:23 FROM SEMCO SAN MATEO CA, OIU. TO 17077+50153

SUPERIOR ANALYTICAL LABORATORY, INC.

1555 BURKE, UNIT I • SAN FRANCISCO, CA 94124 • PHONE (415) 647-2081

DHS #1332

CERTIFICATE OF ANALYSIS

LABORATORY NO.: 53473
CLIENT: SEMCO
CLIENT JOB NO.: RALPH HILL

DATE RECEIVED: 04/17/91
DATE REPORTED: 04/25/91

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS
by Modified EPA SW-846 Method 5030 and 8015

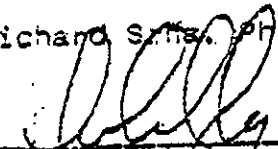
LAB #	Sample Identification	Concentration (mg/Kg)
		Gasoline Range
1	#1-500G	890
2	#2-500	210
3	#3-500CS	230
4	#4-1KG	2
5	#5-1KG	3700
6	#6-1KG	9

mg/kg - parts per million (ppm)
Minimum Detection Limit for Gasoline in Soil: 1mg/kg

QA/QC Summary:

Daily Standard run at 2mg/L: % Diff Gasoline = <15 %
MS/MSD Average Recovery = 80 %: Duplicate RPD = 6%

Richard Smith, Ph.D.


Laboratory Director

SUPERIOR ANALYTICAL LABORATORY, INC.

1555 BURKE, UNIT I • SAN FRANCISCO, CA 94124 • PHONE (415) 647-2081

DHS #1332

CERTIFICATE OF ANALYSIS

LABORATORY NO.: 53473
 CLIENT: SEMCO
 CLIENT JOB NO.: RALPH HILL

DATE RECEIVED: 04/17/91
 DATE REPORTED: 04/25/91

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS
 by Modified EPA SW-846 Method 8015

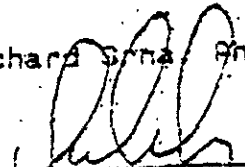
LAB #	Sample Identification	Concentration (mg/Kg) Diesel Range
1	#1-500G	230
2	#2-500	ND<10
3	#3-500CS	16
4	#4-1KG	ND<10
5	#5-1KG S	190
6	#6-1KG V	ND<10

Minimum Detection Limit for Gasoline and Diesel in Soil: 10mg/kg

QACC Summary:

Daily Standard run at 200mg/L: % Diff Gasoline <15 %
 MS/MSD Average Recovery = 83%: Duplicate RPD = 1 %

Richard Srna Ph.D.


 Laboratory Director

OUTSTANDING QUALITY AND SERVICE

SUPERIOR ANALYTICAL LABORATORY, INC.

1555 BURKE, UNIT I • SAN FRANCISCO, CA 94124 • PHONE (415) 647-2081

DHS #1332

CERTIFICATE OF ANALYSIS

LABORATORY NO.: 53473
CLIENT: SEMCO
CLIENT JOB NO.: RALPH HILL

DATE RECEIVED: 04/17/91
DATE REPORTED: 04/23/91

ANALYSIS FOR BENZENE, TOLUENE, ETHYL BENZENE & XYLENES
by EPA SW-846 Methods 8030 and 8020

LAB #	Sample Identification	Concentration(ug/Kg)			
		Benzene	Toluene	Ethyl Benzene	Xylenes
1	#1-500G	ND<300	2400	7100	17000
2	#2-500	ND<30	660	1500	3600
3	#3-500CS	ND<300	680	1100	3500
4	#4-1KG	ND<3	33	14	120
5	#5-1KG S	ND<300	94000	63000	410000
6	#6-1KG W	ND<3	52	58	420

ug/kg - parts per billion (ppb)

Minimum Detection Limit in Soil: 3.0ug/kg

QA/QC Summary:
Daily Standard run at 20ug/L: % Diff 8020 = <15%
MS/MSD Average Recovery = 84% : Duplicate RPD = <7%

Richard S. ... Ph.D.

Laboratory Director

OUTSTANDING QUALITY AND SERVICE

50# 11161-L1-L4



CERTIFIED ENVIRONMENTAL CONSULTING INC.
 110 West Industrial Way, Menlo Park, California, 94025-1016
 Ofc. (707) 745-0171 Fax. (707) 745-0163

Chain of Custody Record

Date 7/12/91 Sheet 1 of 1

Project Number: 91-157-173
 Project Name: Hill Lumber
 Client: Ralf Hill
 Contact: Terry Hamilton, SEMCO
 Address: 1259 Brighton Place Ave
Albany CA

Sampler's Name: Thomas Suggs
 Sampler's Signature: _____

		Parameters										Other							
Sample Number	Date	Time	Location	BTEX	Total Petroleum Hydrocarbons	Oil and Grease	CAM Metals (18)	General Minerals	P. Pollutant Metals (13)	Base/Neu/Acids (Organic)	Pesticides	Volatile Organics (601/602)	Volatile Organics (624)	Asbestos	PCB				
211512	7/6/91	12:00	-	X	X														
211514	7/11/91	15:00	9.5-10'	X	X														
211515	7/11/91	15:00	10-10.5'	X	X														
211516	7/6/91	18:00	7-7.5'	X	X														

Lab Name: Carter Analytical
 Address: _____
 Phone Number: _____
Turnaround Time
 Rush 24 Hour 48 Hour Normal
 Report to: _____

Comments:
water

all samples
Please hold ~~samples~~
for 24 hours before
testing. 5 day turn-
around will be covered.
~~see form #1-326~~

Relinquished By <u>Thomas Suggs</u>	Date <u>7/12/91</u>	Time <u>11:00</u>	Received By <u>Cherisea Snow</u>	Date <u>07/12/91</u>	Time <u>3:05</u>
<u>Deborah Richmond</u>	<u>7/12/91</u>	<u>5:15</u>	<u>Deborah Richmond</u>	<u>7/15/91</u>	<u>8:30</u>
<u>Deborah Richmond</u>	<u>7/15/91</u>	<u>1:55</u>	<u>Deborah Richmond</u>	<u>7/16/91</u>	<u>1:55</u>
Dispatched By <u>Deborah Richmond</u>	Date <u>7/18/91</u>	Time <u>8:30</u>	Received in Lab By <u>Deborah Richmond</u>	Date <u>7/18/91</u>	Time <u>8:30</u>

Total Number of Containers This Sheet: 4
 Method of Shipment: courier
 Special Shipment / Handling or Storage Requirements: _____

Hill Lane

ENVIRONMENTAL ANALYSIS REPORT

CARTER ANALYTICAL LABORATORY, INC.

590 DIVISION STREET • CAMPBELL, CA 95008 • (408) 364-3030 • FAX (408) 866-0319

ANALYSIS REPORT
FOR

Certified Environmental Consulting
140 West Industrial Way
Benicia, CA 94510

CONTACT: Mr. Thomas Suggs

DATE: 07/18/91

CHAIN OF CUSTODY ID NO: 91-157-473

ORDER NO: 11161

P.O. NO: 91-157-473

SITE DESCRIPTION: 1259 Brighton Avenue
Albany, CA

SAMPLE DESCRIPTION:

Water/Soil
Sampled: 07/11/91
Received: 07/15/91
Analyzed: 07/17/91
Number of Samples: 4

REQUESTED ANALYSIS:

Methods: Total Petroleum Hydrocarbons as Gasoline (TPH-G)
and Benzene, Toluene, Ethyl Benzene and Xylene
(BTEX).

The analyses reported are considered accurate. Should you wish further support for the reported data, submit your requirements in writing within 10 days. It is Carter Analytical Labs intent to give you complete satisfaction. Please reference the order number when communicating with us. The invoice is due and payable within 30 days from invoice date.

Hazardous Materials Certification No: 304 • Drinking Water Certification No: 953
from the
State of California • Department of Health Services

CARTER ANALYTICAL LABORATORY, INC.

590 DIVISION STREET • CAMPBELL, CA 95008 • (408) 364-3030 • FAX (408) 866-0319

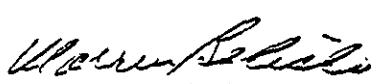
Sample Number	Customer Label	TPH-G (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl Benzene (ug/L)	Xylenes (ug/L)
L1	211512 (water)	2924.8	59.3	479.2	LDL	408.1
Detection Limits:		50.0	0.5	0.5	0.5	0.5


Sample Number	Customer Label	TPH-G (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethyl Benzene (mg/Kg)	Xylenes (mg/Kg)
L2	211514 (soil)	LDL	LDL	LDL	LDL	LDL
L3	211515 "	LDL	LDL	LDL	LDL	LDL
L4	211516 "	LDL	LDL	LDL	LDL	LDL
Detection Limits:		1.0	0.005	0.005	0.005	0.005

LDL indicates the samples are less than detection limits.

=====

CARTER ANALYTICAL LABORATORY


Warren Belisle
Lab Supervisor


Dan Turgeon
Sales Manager

APPENDIX B

Alameda County Health Agency Inspector's Report

white -env.health
 yellow -facility
 pink -files

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH
 Hazardous Materials Inspection Form

80 Swan Way, #200
 Oakland, CA 94621
 (415) 271-4320

II, III

Site ID # _____ Site Name Hill Lumber Co. Today's Date 7/30/92

Site Address 1259 Brighton Av.
 City Albany Zip 94706 Phone _____

MAX AMT stored > 500 lbs, 55 gal., 200 cft.?

Inspection Categories:

- I. Haz. Mat/Waste GENERATOR/TRANSPORTER
- II. Business Plans, Acute Hazardous Materials
- III. Underground Tanks

Callif. Administration Code (CAC) or the Health & Safety Code (HS&C)

Comments:

Overexcavation of soils at former 500-gal gasoline tank. Gasoline/diesel odor is obvious. Soil is greenish. Groundwater present at 10.5 feet bgs. They made a separate stockpile for soil from this excavation that has apparently contaminated. Their mobile lab was on site (NET Pacific Inc.) to sample soils. Soils sampled: (1) on bottom at 10.5' bgs (2) sidewall at 8' bgs (3) sidewall at 7' bgs (4) sidewall at 7.5' bgs. Two separate stockpiles sampled into 4 composites each + sampled. Tom Sugar of CEC did the sampling.

Note: Evergreen Env. Serv. was also on site. They dumped waste oil from 2 drums into their truck.

- II.A BUSINESS PLANS (Title 19)
- 1. Immediate Reporting 2703
 - 2. Bus. Plan Sds. 25503(b)
 - 3. RR Cars > 30 days 25503.7
 - 4. Inventory Information 25504(a)
 - 5. Inventory Complete 2730
 - 6. Emergency Response 25504(b)
 - 7. Training 25504(c)
 - 8. Deficiency 25505(a)
 - 9. Modification 25505(b)
- II.B ACUTELY HAZ. MATS
- 10. Registration Form Filed 25533(a)
 - 11. Form Complete 25533(b)
 - 12. RMPP Contents 25534(c)
 - 13. Implement Sct. Req'd? (Y/N)
 - 14. OnSite Const. Assess. 25524(c)
 - 15. Probable Risk Assessment 25534(d)
 - 16. Persons Responsible 25534(g)
 - 17. Certification 25534(f)
 - 18. Exemption Request? (Y/N) 25536(b)
 - 19. Trade Secret Requested? 25538

- III. UNDERGROUND TANKS (Title 23)
- General
- 1. Permit Application 25284 (HS)
 - 2. Pipeline Leak Detection 25292 (HS)
 - 3. Records Maintenance 25292
 - 4. Release Report 2651
 - 5. Closure Plans 2670
- Monitoring for Existing Tanks
- 6. Method
 - 1) Monthly Test
 - 2) Daily Vadose
 - Semi-annual groundwater
 - One time soil
 - 3) Daily Vadose
 - One time soil
 - Annual tank test
 - 4) Monthly Groundwater
 - One time soil
 - Annual tank testing
 - Cont pipe leak det
 - Vadose/groundwater mon.
 - 5) Daily Inventory
 - Annual tank testing
 - Cont pipe leak det
 - 6) Daily Inventory
 - Annual tank testing
 - Cont pipe leak det
 - 7) Weekly Tank Gauge
 - Annual tank testing
 - 8) Annual Tank Testing
 - Daily Inventory
 - 9) Other
7. Precs Tank Test
 Date: 2643
door
8. Inventory Rec. 2644
9. Soil Testing 2646
4/14/92
10. Ground Water. 2647
4/14/92

- New Tanks
- 11. Monitor Plan 2632
 - 12. Access. Secure 2634
 - 13. Plans Submit 2711
 - Date: _____
 - 14. As Built 2635
 - Date: _____

Rev 6/88

Contact: Tom Sugar
 Title: Hydrogeologist
 Signature: [Signature]

Inspector: Jennifer Eberle
 Signature: [Signature]

II, III