



**ERM-West**

**Environmental Resources Management**

1777 Botelho Drive • Suite 260 • Walnut Creek, California 94596-5022 ☎ (415) 946-0455  
4630 Campus Drive • Suite 200 • Newport Beach, California 92660-1805 ☎ (714) 852-9490  
2865 Sunrise Boulevard • Suite 105 • Rancho Cordova, California 95670-6538 ☎ (916) 635-7766

Reply To:

May 5, 1987

Walnut Creek

Ms. Debra Baker  
Caltrans  
P.O. Box 7791  
San Francisco, CA 94120

Dear Ms. Baker:

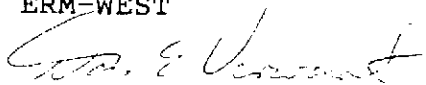
I am writing this letter to document our telephone conversation last month, concerning the Caltrans property at 6th and Brush Streets in Oakland. In addition to arranging for the return of the key that Caltrans provided to ERM-West, you inquired about the general conditions at the site.

When you asked whether the site conditions would interfere or prohibit negotiations from proceeding on the sale of the site, my response was framed in the following context: You had previously described Caltrans' policy that requires remedial action to be completed by Caltrans prior to sale of the property. In addition, I was considering the conditions at the site with respect to the Regional Water Quality Control Board's guidelines that require immediate remedial action when fuel leaks are involved.

I indicated that although some contaminants were detected on the site at low concentrations, this condition should not disrupt the negotiations between Greyhound and Caltrans.

I have given no other assurances, nor have I implied that the site is uncontaminated. Some follow-up action may in fact be required to more completely define and monitor the contaminants or to provide some measure of cleanup if conditions warrant. I trust that this letter accurately describes our brief conversation.

Very truly yours,  
ERM-WEST

  
Dan E. Verwoert, P.G.  
Principal

cc: Ken Ries - Greyhound

GREYHOUND LINES, INC.  
Greyhound Tower  
Phoenix, Arizona

FAX #602-248-5062

ATTENTION:

Name: DEBBIE BAKER  
Company: CALTRANS  
Contact #: 415-923-4418  
Station #: \_\_\_\_\_

FROM:

Name: C. J. LINDENBERGER  
Contact #: 602-248-2839  
Station #: 1550

\_\_\_ page/s including this cover sheet



**ERM-West**

Environmental Resources Management

1777 Botelho Drive • Suite 260 • Walnut Creek, California 94596-5022 ☎ (415) 946-0455  
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2865 Sunrise Boulevard • Suite 105 • Rancho Cordova, California 95670-6538 ☎ (916) 635-7766

Reply To:

April 30, 1987

Walnut Creek

K. M. RIES

MAY 1987

Kenneth M. Ries  
Manager, Environmental and  
Energy Engineering  
Greyhound Corporation  
Greyhound Tower  
Mail Station 1742  
Phoenix, AZ 85077

C.J. ENSENBERGER

MAY 01 1987

SUBJECT: Regional Water Quality Control Board (RWQCB) Likely  
Response to Contamination at the Proposed Greyhound  
Site in Oakland, California

Dear Mr. Ries:

In response to your request, we have contacted Mr. Lester Feldman of the RWQCB to determine the Board's likely response to the reporting of the detected contaminants at levels similar to those detected at the proposed Greyhound site in Oakland, California. Mr. Feldman indicated that the detected concentrations of volatile organics suggest a minor groundwater contamination problem. If the site were reported, it would be listed as a toxic waste site, although it would receive "the lowest priority" among sites listed.

The course of action for the proposed Greyhound site suggested by the RWQCB would be continued groundwater monitoring. As the detected organics may represent the edge of a contaminant plume, changes in concentration would be monitored, and increases or decreases would be reported to the RWQCB. In addition, the contaminant source (i.e., underground tank or pipeline) would be identified if possible. If the source is found to be on-site further contamination might be arrested through tank or pipeline removal. Groundwater cleanup would not be required unless contaminant concentrations increase and pose a significant threat to beneficial use of groundwater in the area.

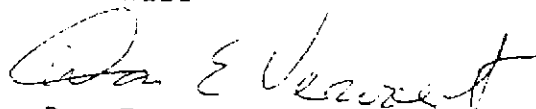
Mr. Kenneth M. Ries  
April 30, 1987

Page Two

I believe this provides a sufficient response to satisfy your concerns. If you have further questions or need additional information, please call me or Ben Leslie-Bole.

Sincerely,

ERM-WEST



Dan E. Verwoert, P.G.  
Project Manager

Enclosures - Noted

BLB/dd/238

ENVIRONMENTAL  
PROTECTION

00 JAN 28 PM 2:44

INITIAL ENVIRONMENTAL SITE  
ASSESSMENT FOR THE  
PROPOSED GREYHOUND SITE

7TH AND BRUSH  
OAKLAND, CALIFORNIA

Prepared for:

GREYHOUND LINES, INC.  
PHOENIX, ARIZONA

Prepared by:

ERM-West  
Walnut Creek, California

April 16, 1987

INITIAL ENVIRONMENTAL SITE  
ASSESSMENT FOR THE  
PROPOSED GREYHOUND SITE

7TH AND BRUSH (*Same as 6th + Castro*)  
OAKLAND, CALIFORNIA

Prepared for:

GREYHOUND LINES, INC.  
PHOENIX, ARIZONA

Prepared by:

ERM-West  
Walnut Creek, California

April 16, 1987

## TABLE OF CONTENTS

	<u>Page</u>
LIST OF FIGURES	ii
LIST OF TABLES	ii
SECTION ONE - BACKGROUND	1
Site Location	1
Site History and Use	1
SECTION TWO - FIELD METHODS	4
SECTION THREE - RESULTS AND DISCUSSION	6
Soils and Hydrology	6
Results of Laboratory Analyses	6
SECTION FOUR - CONCLUSIONS	10
APPENDIX A      LABORATORY ANALYTICAL RESULTS	
APPENDIX B      DRILLING LOGS	
APPENDIX C      AIR SAMPLING DATA	
APPENDIX D      CHAIN OF CUSTODY FORMS	

LIST OF FIGURES

<u>FIGURE</u>		<u>PAGE</u>
1	Site Location Map	2

LIST OF TABLES

<u>TABLE</u>		<u>PAGE</u>
1	Priority Pollutant Purgeable and Extractable Organics Detected in Subsurface Soil Samples.	7
2	Priority Pollutant Purgeable and Extractable Organics Detected in Groundwater Samples.	9



## SECTION ONE

### BACKGROUND

The Greyhound Corporation retained ERM-West to perform an environmental site assessment of a parcel currently owned by the State of California Department of Transportation. The purpose of the site assessment was to determine if environmental problems exist at the site that may represent significant potential liability exposure to the purchaser of the property.

### SITE LOCATION

The site that was evaluated for this report is a fenced vacant lot located at Brush between 6th and 7th Streets in Oakland, California (Figure 1). The site is one city block, approximately 60,000 square feet in size.

### SITE HISTORY AND USE

The site was previously occupied by numerous commercial facilities and private residences; however, after acquisition by the State of California Department of Transportation in 1970, all buildings were demolished and removed. Property ownership record searches indicated that three commercial facilities of potential concern historically existed on the site. These businesses included a gas station at the west corner of the site, a dairy creamery located at the east corner of the site, and a commercial warehouse on the northeast side of the site. The gas station was known to have at least two underground tanks for gasoline storage and possibly an underground tank for used oil storage. Both the dairy creamery and the warehouse reportedly had at least one underground tank each for gasoline storage. The exact locations of the tanks at each of the businesses are unknown. It is also reported that the tanks were removed at the time that the buildings were demolished and removed.

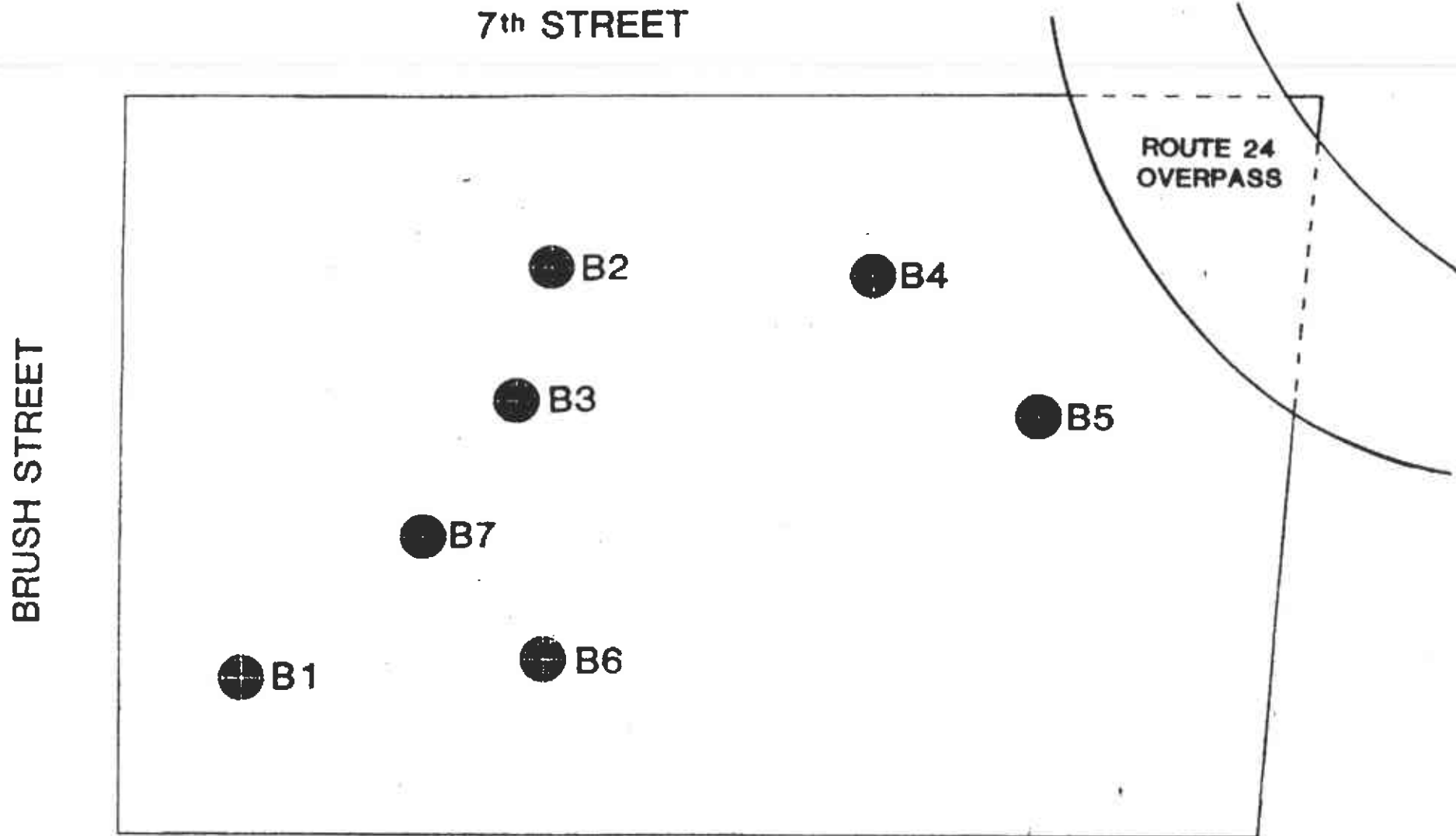


FIGURE 1 7th AND BRUSH SITE  
BORING LOCATIONS  
OAKLAND, CALIFORNIA

Residential property owners may have historically applied commercial herbicides and pesticides to flowers and vegetable gardens and may have also randomly dumped used oil; however, the environmental concern for these activities is small.

The only current site use is as a corridor for a highway overpass. Two vertical support beams for the overpass are situated on the eastern corner of the property at the former location of the dairy creamery. An aerial photograph was obtained.

## SECTION TWO FIELD METHODS

Site activities were carried out in two phases. On March 16 and 17, 1987, boreholes were drilled and soils were sampled from the boreholes. On April 1, 1987, groundwater samples were collected from two boreholes. Seven borings were drilled at the site by use of a truck-mounted continuous flight solid stem auger. The borings ranged in depth from 15 to 17 feet and were 6-inches in diameter. Borehole locations are shown on Figure 1.

Down hole soil samples were taken with 24 by 2-inch steel Shelby tubes at one depth in each of the seven holes, with the exception of boring B5. In boring B5, two soil samples were taken due to suspected contamination as evidenced by a noticeable odor and above background readings on the Soil Sentry Air Monitor (discussed below). After removal of the Shelby tubes from the boring, the soil samples were examined for soil classification purposes, after which the bottom 6 inches of the Shelby tube was cut-off and stored for subsequent sample analysis.

Down hole air sampling was performed in each of the seven holes at three different depths by using a Soil Sentry, Model 17-100A. The three depths were at approximately 5, 10, and 15 feet. The air sampling system functions by insertion of a down hole probe and transport tube into the open borehole. A continuous air sample is withdrawn from the borehole and fed into a bulk semiconductor vapor analyzer for instantaneous analysis and subsequently translated by a microprocessor into relative numerical values. A printer then provides documentation of all operations.

Temporary PVC monitoring well casing was placed in the three open boreholes that intersected the apparent water table (B1, B5, B6) so that groundwater samples could be collected. The

monitoring well casing consisted of 5 feet of 2-inch I.D., .010-inch slotted schedule 40 PVC screw-mounted to 10 feet of 2-inch I.D., solid wall schedule 40 PVC. Backfill was not placed between the well casing and the borehole sidewalls so that the temporary casing could be removed. Boreholes in which no water was encountered were backfilled with native materials after air and soil sampling was completed.

On April 1, 1987, groundwater samples were collected from wells B1 and B6. Prior to sample collection the wells were bailed dry with a 1.75-inch O.D. by 36-inch teflon bailer. After the wells recovered with fresh formation water, samples were collected by use of the same bailer (after decontamination) and were carefully transferred into sample collection bottles. During collection of the groundwater sample from borehole B1, a slight gasoline odor was detected emanating from the borehole.

All samples were sent by overnight delivery to Central Coast Analytical Services (San Luis Obispo, California) for analysis. Chain of Custody procedures were followed in order to have a traceable record of the analytical sample possession.

### SECTION THREE

#### RESULTS AND DISCUSSION

This section summarizes the results of the investigation at the 7th and Brush Site. The site soils and hydrogeology are descriptions are followed by a discussion of the soil and groundwater analyses. These results are used to evaluate existence of contamination at the site.

#### SOILS AND HYDROLOGY

The soils encountered at the site were generally disturbed in the upper 3 to 5 feet in most boreholes and at depths of 15 feet (total depth of borehole) in two holes, boreholes B1 and B2. In the disturbed zones blocks of concrete, asphalt, and brick were encountered during the drilling.

Native soils consisted of fairly homogenous chocolate brown to medium brown sandy soil with increasing amounts of clay matrix at depth. Soils became damp at approximately 15 feet. On April 1, 1987, water was measured in two of the three boreholes in which casing was placed. These two holes, B1 and B6, both located in the west corner, had approximately 2'3" and 1'3" of water, respectively. The difference in water level between the two boreholes is partially due to borehole 1 being approximately 6 inches deeper than borehole 6. The rubble backfill encountered during drilling in the west corner may also be responsible for causing the remaining variation in the groundwater level between the two holes.

#### RESULTS OF LABORATORY ANALYSES

Soil and groundwater samples were analyzed by Central Coast Analytical Services (San Luis Obispo, California) for priority

TABLE 1

PRIORITY POLLUTANT PURGEABLE AND EXTRACTABLE ORGANICS  
DETECTED IN SUBSURFACE SOIL SAMPLES

Boring	Sample Depth	Constituent and Concentration	Detection Limit
B1	16.0' - 16.5'	Xylenes: 0.004 ppm	0.001 ppm
B5	17.0' - 17.5'	Ethylbenzene: 1300 ug/kg Toluene: 1500 ug/kg Xylenes: 7900 ug/kg	500 ug/kg 1000 ug/kg 500 ug/kg
B6	17.0' - 17.5'	Xylenes: 0.002 ppm	0.001 ppm
B7	17.0' - 17.5'	Xylenes: 0.002 ppm	0.001 ppm

All priority pollutant purgeable and extractable organics not listed were not detected.

pollutants and extractable organics. Laboratory reports from all analyses performed are presented in Appendix A.

### Soil

The results of soil analyses for purgeable and extractable organics are displayed in Table 1. Note that this Table presents only those samples where constituents were detected. Detectable levels of organic constituents were found in four boreholes, B1, B5, B6 and B7. The organics detected (ethylbenzene, toluene, xylene) are typically associated with gasoline and possibly with cleaning solvents. These constituents were detected at relatively low concentrations.

### Groundwater

The results of groundwater analyses for purgeable and extractable organics are displayed in Table 2. Note that this Table presents only those samples where constituents were detected. Detectable levels of organic constituents were found in one borehole, B1. The same organics were detected in the water samples as in the soil samples (ethylbenzene, toluene and xylene). In addition, other organic constituents were detected that are also components of gasoline or gasoline products (aliphatic and alicyclic hydrocarbons, C3 - C5 alkylbenzene isomers, methylstyrene and methyl lindane).



TABLE 2

PRIORITY POLLUTANT PURGEABLE AND EXTRACTABLE ORGANICS  
DETECTED IN GROUNDWATER SAMPLES

Boring	Sample Depth	Constituent and Concentration	Detection Limit
B1	12.8' - 15'	Ethylbenzene: 0.5 ug/l Toluene: 0.3 ug/l Xylenes: 5.0 ug/l Aliphatic and Alicyclic Hydrocarbons: 1.2 ug/l Alkylbenzene Isomers: 11 ug/l Methyl Styrene: 1 ug/l Methyl Indane: 2 ug/l	0.1 ug/l 0.2 ug/l 0.1 ug/l

All priority pollutants purgeable and extractable organics not listed were not detected.

Central  
Coast  
Analytical  
Services

Central Coast  
Analytical Services, Inc.  
141 Suburban Road, Suite C-4  
San Luis Obispo, California 93401  
(805) 543-2553

Lab Number : b03197  
Collected :  
Received :  
Tested : 03/19/87  
Collected by:

EPA METHOD 8240  
Sample Description:  
Instrument Blank

Compound Analyzed -	Detection Limit (ug/l)	Concentration (ug/l)
Benzene	0.1	not found
Bromodichloromethane	0.1	not found
Bromoform	0.2	not found
Carbon Tetrachloride	0.1	not found
Chlorobenzene	0.1	not found
2-Chloroethyl Vinyl Ether	1.	not found
Chloroform	0.1	not found
Dibromochloromethane	0.1	not found
1,2-Dichlorobenzene	0.1	not found
1,3-Dichlorobenzene	0.1	not found
1,4-Dichlorobenzene	0.1	not found
Dichlorodifluoromethane	1.	not found
1,1-Dichloroethane	0.1	not found
1,2-Dichloroethane (EDC)	0.1	not found
1,1-Dichloroethene	0.1	not found
c-1,2-Dichloroethene	0.1	not found
t-1,2-Dichloroethene	0.1	not found
1,2-Dichloropropane	0.1	not found
c-1,3-Dichloropropene	0.1	not found
t-1,3-Dichloropropene	0.1	not found
Dichlorotrifluoroethane	0.1	not found
Ethylbenzene	0.1	not found
Ethyl Chloride	0.1	not found
Methyl Bromide	0.1	not found
Methyl Chloride	0.2	not found
Methylene Chloride	10.	not found
Methylethyl Ketone (MEK)	5.	not found
Methylisobutyl Ketone (MIBK)	5.	not found
1,1,2,2-Tetrachloroethane	0.5	not found
Tetrachloroethylene (PCE)	0.1	not found
Toluene	0.2	not found
1,1,1-Trichloroethane (TCA)	0.1	not found
1,1,2-Trichloroethane	0.1	not found
Trichloroethene (TCE)	0.1	not found
Trichlorotrifluoroethane (f113)	10.	not found
Trichlorofluoromethane(F-11)	0.1	not found
Vinyl Chloride	0.1	not found
Xylenes	0.1	not found

Percent Recovery of Sample-Specific Quality Assurance Spike is: 100.

Respectfully submitted,  
CENTRAL COAST ANALYTICAL SERVICES  
*Mary D. Havlicek*  
Mary D. Havlicek, Ph.D., President

MH/mc

Central  
Coast  
Analytical  
Services

Central Coast  
Analytical Services, Inc.  
141 Suburban Road, Suite C-4  
San Luis Obispo, California 93401  
(805) 543-2553

Lab Number: b03207  
Collected:  
Received:  
Tested: 03/20/87  
Collected by:

Fuel Fingerprint Analysis - EPA Method 624/8240

SAMPLE DESCRIPTION:  
Instrument Blank

Compound Analyzed	Detection Limit in ppm	Concentration in ppm
Benzene	0.0001	not found
Toluene	0.001	not found
Ethylbenzene	0.001	not found
Xylenes	0.001	not found
Ethylene Dibromide (EDB)	0.0001	not found
Naphthalene	0.001	not found
TOTAL PURGEABLE PETROLEUM HYDROCARBONS (TURPENTINE)		not found
BTX as a Percent of Fuel		not applicable
Percent Surrogate Recovery		110.

Respectfully submitted,  
CENTRAL COAST ANALYTICAL SERVICES  
*Mary Havlicek*  
Mary Havlicek, Ph.D.  
President

MH/mc

Central  
Coast  
Analytical  
Services

Central Coast  
Analytical Services, Inc.  
141 Suburban Road, Suite C-4  
San Luis Obispo, California 93401  
(805) 543-2553

Lab Number: D1790  
Collected: 03/16/87  
Received: 03/18/87  
Tested: 03/20/87  
Collected by: M. Bell  
Fuel Fingerprint Analysis - EPA Method 624/8240

ERM-WEST  
1777 Botelho Dr., Suite 260  
Walnut Creek, CA 94596

SAMPLE DESCRIPTION:  
Oakland, Job #238  
Soil from B1 @ 16.0-16.5'

Compound Analyzed	Detection Limit in ppm	Concentration in ppm
Benzene	0.001	not found
Toluene	0.001	not found
Ethylbenzene	0.001	not found
Xylenes	0.001	0.004
Ethylene Dibromide (EDB)	0.001	not found
Naphthalene	0.001	not found
TOTAL PURGEABLE PETROLEUM HYDROCARBONS (GASOLINE)		<0.1
BTX as a Percent of Fuel		not applicable
Percent Surrogate Recovery		86.

Respectfully submitted,  
CENTRAL COAST ANALYTICAL SERVICES

*Mary Kavlicek*

Mary Kavlicek, Ph.D.  
President

MH/mc

Central-Coast

Central  
Coast  
Analytical  
Services

Analytical Services, Inc.  
141 Suburban Road, Suite C-4  
San Luis Obispo, California 93401  
(805) 543-2553

Lab Number : D1791  
Collected : 03/16/87  
Received : 03/18/87  
Tested : 03/19/87  
Collected by: M. Bell

ERM-WEST  
1777 Botelho Dr., Suite 260  
Walnut Creek, CA 94596

TESTED FOR EPA 8010/8020 USING EPA 8240

Sample Description:  
Oakland, Job #238  
Soil from B2 @ 16.0-16.5'

Compound Analyzed	Detection Limit (ug/kg)	Concentration (ug/kg)
Benzene	1.	not found
Bromodichloromethane	1.	not found
Bromoform	2.	not found
Carbon Tetrachloride	1.	not found
Chlorobenzene	1.	not found
2-Chloroethyl Vinyl Ether	10.	not found
Chloroform	1.	not found
Dibromochloromethane	1.	not found
1,2-Dichlorobenzene	1.	not found
1,3-Dichlorobenzene	1.	not found
1,4-Dichlorobenzene	1.	not found
Dichlorodifluoromethane	10.	not found
1,1-Dichloroethane	1.	not found
1,2-Dichloroethane (EDC)	1.	not found
1,1-Dichloroethene	1.	not found
c-1,2-Dichloroethene	1.	not found
t-1,2-Dichloroethene	1.	not found
1,2-Dichloropropane	1.	not found
c-1,3-Dichloropropene	1.	not found
t-1,3-Dichloropropene	1.	not found
Dichlorotrifluoroethane	1.	not found
Ethylbenzene	1.	not found
Ethyl Chloride	1.	not found
Methyl Bromide	1.	not found
Methyl Chloride	2.	not found
Methylene Chloride	10.	not found
Methylethyl Ketone (MEK)	50.	not found
Methylisobutyl Ketone (MIBK)	50.	not found
1,1,2,2-Tetrachloroethane	5.	not found
Tetrachloroethylene (PCE)	1.	not found
Toluene	2.	not found
1,1,1-Trichloroethane (TCA)	1.	not found
1,1,2-Trichloroethane	1.	not found
Trichloroethene (TCE)	1.	not found
Trichlorotrifluoroethane (f113)	10.	not found
Trichlorofluoromethane(F-11)	1.	not found
Vinyl Chloride	1.	not found
Xylenes	1.	not found

Percent Recovery of Sample-Specific Quality Assurance Spike is: 97.

Respectfully submitted,  
CENTRAL COAST ANALYTICAL SERVICES

*Mary D. Havlicek*  
Mary D. Havlicek, Ph.D., President

MH/mc

Central Coast

Central  
Coast  
Analytical  
Services

Analytical Services, Inc.  
141 Suburban Road, Suite C-4  
San Luis Obispo, California 93401  
(805) 543-2553

Lab Number : D1792  
Collected : 03/16/87  
Received : 03/18/87  
Tested : 03/19/87  
Collected by: M.Bell

ERM-WEST  
1777 Botelho Dr., Suite 260  
Walnut Creek, CA 94596

TESTED FOR EPA 8010/8020 USING EPA 8240  
Sample Description:  
Oakland, Job #238  
Soil from B3 @ 16.0-16.5'

Compound Analyzed	Detection Limit (ug/kg)	Concentration (ug/kg)
Benzene	1.	not found
Bromodichloromethane	1.	not found
Bromoform	2.	not found
Carbon Tetrachloride	1.	not found
Chlorobenzene	1.	not found
2-Chloroethyl Vinyl Ether	10.	not found
Chloroform	1.	not found
Dibromochloromethane	1.	not found
1,2-Dichlorobenzene	1.	not found
1,3-Dichlorobenzene	1.	not found
1,4-Dichlorobenzene	1.	not found
Dichlorodifluoromethane	10.	not found
1,1-Dichloroethane	1.	not found
1,2-Dichloroethane (EDC)	1.	not found
1,1-Dichloroethene	1.	not found
c-1,2-Dichloroethene	1.	not found
t-1,2-Dichloroethene	1.	not found
1,2-Dichloropropane	1.	not found
c-1,3-Dichloropropene	1.	not found
t-1,3-Dichloropropene	1.	not found
Dichlorotrifluoroethane	1.	not found
Ethylbenzene	1.	not found
Ethyl Chloride	1.	not found
Methyl Bromide	1.	not found
Methyl Chloride	2.	not found
Methylene Chloride	10.	not found
Methylethyl Ketone (MEK)	50.	not found
Methylisobutyl Ketone (MIBK)	50.	not found
1,1,2,2-Tetrachloroethane	5.	not found
Tetrachloroethylene (PCE)	1.	not found
Toluene	2.	not found
1,1,1-Trichloroethane (TCA)	1.	not found
1,1,2-Trichloroethane	1.	not found
Trichloroethene (TCE)	1.	not found
Trichlorotrifluoroethane (f113)	10.	not found
Trichlorofluoromethane(F-11)	1.	not found
Vinyl Chloride	1.	not found
Xylenes	1.	not found

Percent Recovery of Sample-Specific Quality Assurance Spike is: 99.

Respectfully submitted,  
CENTRAL COAST ANALYTICAL SERVICES

*Mary D. Havlicek*  
Mary D. Havlicek, Ph.D., President

MH/mc

Central  
Coast  
Analytical  
Services

Central Coast  
Analytical Services, Inc.  
141 Suburban Road, Suite C-4  
San Luis Obispo, California 93401  
(805) 543-2553

Lab Number : D1793  
Collected : 03/16/87  
Received : 03/18/87  
Tested : 03/19/87  
Collected by: M.Bell

ERM-WEST  
1777 Botelho Dr., Suite 260  
Walnut Creek, CA 94596

TESTED FOR EPA 8010/8020 USING EPA 8240  
Sample Description:  
Oakland, Job #238  
Soil from B4 @ 9.5-10.0'

Compound Analyzed	Detection Limit (ug/kg)	Concentration (ug/kg)
Benzene	1.	not found
Bromodichloromethane	1.	not found
Bromoform	2.	not found
Carbon Tetrachloride	1.	not found
Chlorobenzene	1.	not found
2-Chloroethyl Vinyl Ether	10.	not found
Chloroform	1.	not found
Dibromochloromethane	1.	not found
1,2-Dichlorobenzene	1.	not found
1,3-Dichlorobenzene	1.	not found
1,4-Dichlorobenzene	1.	not found
Dichlorodifluoromethane	10.	not found
1,1-Dichloroethane	1.	not found
1,2-Dichloroethane (EDC)	1.	not found
1,1-Dichloroethene	1.	not found
c-1,2-Dichloroethene	1.	not found
t-1,2-Dichloroethene	1.	not found
1,2-Dichloropropane	1.	not found
c-1,3-Dichloropropene	1.	not found
t-1,3-Dichloropropene	1.	not found
Dichlorotrifluoroethane	1.	not found
Ethylbenzene	1.	not found
Ethyl Chloride	1.	not found
Methyl Bromide	1.	not found
Methyl Chloride	2.	not found
Methylene Chloride	10.	not found
Methylethyl Ketone (MEK)	50.	not found
Methylisobutyl Ketone (MIBK)	50.	not found
1,1,2,2-Tetrachloroethane	5.	not found
Tetrachloroethylene (PCE)	1.	not found
Toluene	2.	not found
1,1,1-Trichloroethane (TCA)	1.	not found
1,1,2-Trichloroethane	1.	not found
Trichloroethene (TCE)	1.	not found
Trichlorotrifluoroethane (f113)	10.	not found
Trichlorofluoromethane(F-11)	1.	not found
Vinyl Chloride	1.	not found
Xylenes	1.	not found

Percent Recovery of Sample-Specific Quality Assurance Spike is: 95.

Respectfully submitted,  
CENTRAL COAST ANALYTICAL SERVICES

*Mary D. Havlicek*  
Mary D. Havlicek, Ph.D., President

MH/mc

Central  
Coast  
Analytical  
Services

Central Coast  
Analytical Services, Inc.  
141 Suburban Road, Suite C-4  
San Luis Obispo, California 93401  
(805) 543-2553

Lab Number : D1794  
Collected : 03/17/87  
Received : 03/18/87  
Tested : 03/19/87  
Collected by: M.Bell

ERM-WEST  
1777 Botelho Dr., Suite 260  
Walnut Creek, CA 94596

TESTED FOR EPA 8010/8020 USING EPA 8240  
Sample Description:  
Oakland, Job #238  
Soil from B5a @ 11.5-12.0'

Compound Analyzed	Detection Limit (ug/kg)	Concentration (ug/kg)
Benzene	1.	not found
Bromodichloromethane	1.	not found
Bromoform	2.	not found
Carbon Tetrachloride	1.	not found
Chlorobenzene	1.	not found
2-Chloroethyl Vinyl Ether	10.	not found
Chloroform	1.	not found
Dibromochloromethane	1.	not found
1,2-Dichlorobenzene	1.	not found
1,3-Dichlorobenzene	1.	not found
1,4-Dichlorobenzene	1.	not found
Dichlorodifluoromethane	10.	not found
1,1-Dichloroethane	1.	not found
1,2-Dichloroethane (EDC)	1.	not found
1,1-Dichloroethene	1.	not found
c-1,2-Dichloroethene	1.	not found
t-1,2-Dichloroethene	1.	not found
1,2-Dichloropropane	1.	not found
c-1,3-Dichloropropene	1.	not found
t-1,3-Dichloropropene	1.	not found
Dichlorotrifluoroethane	1.	not found
Ethylbenzene	1.	not found
Ethyl Chloride	1.	not found
Methyl Bromide	1.	not found
Methyl Chloride	2.	not found
Methylene Chloride	10.	not found
Methylethyl Ketone (MEK)	50.	not found
Methylisobutyl Ketone (MIBK)	50.	not found
1,1,2,2-Tetrachloroethane	5.	not found
Tetrachloroethylene (PCE)	1.	not found
Toluene	2.	not found
1,1,1-Trichloroethane (TCA)	1.	not found
1,1,2-Trichloroethane	1.	not found
Trichloroethene (TCE)	1.	not found
Trichlorotrifluoroethane (f113)	10.	not found
Trichlorofluoromethane(F-11)	1.	not found
Vinyl Chloride	1.	not found
Xylenes	1.	not found

Percent Recovery of Sample-Specific Quality Assurance Spike is: 110.

Respectfully submitted,  
CENTRAL COAST ANALYTICAL SERVICES  
*Mary D. Havlicek*  
Mary D. Havlicek, Ph.D., President



Central  
Coast  
Analytical  
Services

Central Coast  
Analytical Services, Inc.  
141 Suburban Road, Suite C-4  
San Luis Obispo, California 93401  
(805) 543-2553

Lab Number : D1795  
Collected : 03/17/87  
Received : 03/18/87  
Tested : 03/19/87  
Collected by: M.Bell

ERM-WEST  
1777 Botelho Dr., Suite 260  
Walnut Creek, CA 94596

TESTED FOR EPA 8010/8020 USING EPA 8240  
Sample Description:  
Oakland, Job #238  
Soil from B5b @ 17.0-17.5'

Compound Analyzed	Detection Limit (ug/kg)	Concentration (ug/kg)
Benzene	500.	not found
Bromodichloromethane	500.	not found
Bromoform	1000.	not found
Carbon Tetrachloride	500.	not found
Chlorobenzene	500.	not found
2-Chloroethyl Vinyl Ether	500.	not found
Chloroform	500.	not found
Dibromochloromethane	500.	not found
1,2-Dichlorobenzene	500.	not found
1,3-Dichlorobenzene	500.	not found
1,4-Dichlorobenzene	500.	not found
Dichlorodifluoromethane	500.	not found
1,1-Dichloroethane	500.	not found
1,2-Dichloroethane (EDC)	500.	not found
1,1-Dichloroethene	500.	not found
c-1,2-Dichloroethene	500.	not found
t-1,2-Dichloroethene	500.	not found
1,2-Dichloropropane	500.	not found
c-1,3-Dichloropropene	500.	not found
t-1,3-Dichloropropene	500.	not found
Dichlorotrifluoroethane	500.	not found
Ethylbenzene	500.	1300.
Ethyl Chloride	500.	not found
Methyl Bromide	500.	not found
Methyl Chloride	1000.	not found
Methylene Chloride	500.	not found
Methylethyl Ketone (MEK)	500.	not found
Methylisobutyl Ketone (MIBK)	500.	not found
1,1,2,2-Tetrachloroethane	2500.	not found
Tetrachloroethylene (PCE)	500.	not found
Toluene	1000.	1500.
1,1,1-Trichloroethane (TCA)	500.	not found
1,1,2-Trichloroethane	500.	not found
Trichloroethene (TCE)	500.	not found
Trichlorotrifluoroethane (f113)	500.	not found
Trichlorofluoromethane(F-11)	500.	not found
Vinyl Chloride	500.	not found
Xylenes	500.	7900.

Percent Recovery of Sample-Specific Quality Assurance Spike is: 110.

Respectfully submitted,  
CENTRAL COAST ANALYTICAL SERVICES  
*Mary D. Havlicek*  
Mary D. Havlicek, Ph.D., President

MH/mc

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Central Coast  
Analytical Services, Inc.  
141 Suburban Road , Suite C-4  
San Luis Obispo, California 93401  
(805) 543-2553

Lab Number: D1796  
Collected: 03/17/87  
Received: 03/18/87  
Tested: 03/20/87  
Collected by: M. Bell  
Fuel Fingerprint Analysis - EPA Method 624/8240

ERM-WEST  
1777 Botelho Dr., Suite 260  
Walnut Creek, CA 94596

SAMPLE DESCRIPTION:  
Oakland, Job #238  
Soil from B6 @ 17.0-17.5'

Compound Analyzed	Detection Limit in ppm	Concentration in ppm
Benzene	0.001	not found
Toluene	0.001	not found
Ethylbenzene	0.001	not found
Xylenes	0.001	0.002
Ethylene Dibromide (EDB)	0.001	not found
Naphthalene	0.001	not found
TOTAL PURGEABLE PETROLEUM HYDROCARBONS (GASOLINE)		<0.1
BTX as a Percent of Fuel		not applicable
Percent Surrogate Recovery		83.

Respectfully submitted,  
CENTRAL COAST ANALYTICAL SERVICES

*Mary Havlicek*  
Mary Havlicek, Ph.D.  
President

MH/mc

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Coast  
Analytical  
Services

Central Coast  
Analytical Services, Inc.  
141 Suburban Road, Suite C-4  
San Luis Obispo, California 93401  
(805) 543-2553

Lab Number: D1797  
Collected: 03/17/87  
Received: 03/18/87  
Tested: 03/20/87  
Collected by: M. Bell  
Fuel Fingerprint Analysis - EPA Method 8240

ERM-WEST  
1777 Botelho Dr., Suite 260  
Walnut Creek, CA 94596

SAMPLE DESCRIPTION:  
Oakland, Job #238  
Soil from B7 @ 17.0-17.5'

Compound Analyzed	Detection Limit in ppm	Concentration in ppm
Benzene	0.001	not found
Toluene	0.001	not found
Ethylbenzene	0.001	not found
Xylenes	0.001	0.002
Ethylene Dibromide (EDB)	0.001	not found
Naphthalene	0.001	not found
TOTAL PURGEABLE PETROLEUM HYDROCARBONS (GASOLINE)		<0.1
BTX as a Percent of Fuel		not applicable
Percent Surrogate Recovery		79.

Respectfully submitted,  
CENTRAL COAST ANALYTICAL SERVICES

*Mary Havlicek*  
Mary Havlicek, Ph.D.  
President

MH/mc

Central  
 Coast  
 Analytical  
 Services

Central Coast  
 Analytical Services, Inc.  
 141 Suburban Road, Suite C-4  
 San Luis Obispo, California 93401  
 (805) 543-2553

Lab Number : D2197  
 Collected : 04/01/87  
 Received : 04/02/87  
 Tested : 04/02/87  
 Collected by: M. Bell

ERM-WEST  
 1777 Batelho Dr., Suite 268  
 Walnut Creek, CA 94586

EPA METHOD 8240  
 Sample Description:  
 Job #238; Greyhound, Oakland  
 B1 water

Compound Analyzed	Detection Limit (ug/l)	Concentration (ug/l)
Benzene	0.1	not found
Bromodichloromethane	0.1	not found
Bromoform	0.2	not found
Carbon Tetrachloride	0.1	not found
Chlorobenzene	0.1	not found
2-Chloroethyl Vinyl Ether	1.	not found
Chloroform	0.1	not found
Dibromochloromethane	0.1	not found
1,2-Dichlorobenzene	0.1	not found
1,3-Dichlorobenzene	0.1	not found
1,4-Dichlorobenzene	0.1	not found
Dichlorodifluoromethane	1.	not found
1,1-Dichloroethane	0.1	not found
1,2-Dichloroethane (EDC)	0.1	not found
1,1-Dichloroethene	0.1	not found
c-1,2-Dichloroethene	0.1	not found
t-1,2-Dichloroethene	0.1	not found
1,2-Dichloropropane	0.1	not found
c-1,3-Dichloropropane	0.1	not found
t-1,3-Dichloropropane	0.1	not found
Dichlorotrifluoroethane	0.1	not found
Ethylbenzene	0.1	0.5
Ethyl Chloride	0.1	not found
Methyl Bromide	0.1	not found
Methyl Chloride	0.2	not found
Methylene Chloride	10.	not found
Methylethyl Ketone (MEK)	5.	not found
Methylisobutyl Ketone (MIBK)	5.	not found
1,1,2,2-Tetrachloroethane	0.5	not found
Tetrachloroethylene (PCE)	0.1	not found
Toluene	0.2	0.3
1,1,1-Trichloroethane (TCA)	0.1	not found
1,1,2-Trichloroethane	0.1	not found
Trichloroethene (TCE)	0.1	not found
Trichlorotrifluoroethane (f113)	10.	not found
Trichlorofluoromethane(t-11)	0.1	not found
Vinyl Chloride	0.1	not found
Xylenes	0.1	5.0

Percent Recovery of Sample-Specific Quality Assurance Spike is: 130.

Respectfully submitted,  
 CENTRAL COAST ANALYTICAL SERVICES  
*Mary D. Havlicek*  
 Mary D. Havlicek, Ph.D., President

MH/mc

c[&lt;1[10m AIR, WATER and HAZARDOUS WASTE LABORATORY CERTIFIED by CALIFORNIA DEPT of PUBLIC HEAL

Central  
Coast  
Analytical  
Services

Central Coast  
Analytical Services  
141 Suburban Road, Suite C-4  
San Luis Obispo, California 93401  
(805) 543-2553

Lab Number: D-2197  
Collected: 04/01/87  
Received: 04/02/87  
Tested: 04/02/87  
Collected by: M. Bell

ERM WEST  
1777 Botelho Drive  
Suite 25#  
Walnut Creek, CA 94596

Sample Description:  
Job #238; Greyhound, Oakland  
B1 Water

## SUPPLEMENTARY REPORT FOR EPA 0246.

CONSTITUENT	APPROXIMATE LEVEL ug/l
LOW MOLECULAR WEIGHT ALIPHATIC & ALICYCLIC HYDROCARBONS	1.2
C3-C5 ALKYL BENZENE ISOMERS	11.
METHYL STYRENE	1.
METHYL INDANE	2.

Respectfully submitted,  
CENTRAL COAST ANALYTICAL SERVICES

*Mary Havlicek*  
Mary Havlicek, Ph.D., President

D2187SUP.WR1/11  
MH/ke

0110m AIR, WATER AND HAZARDOUS WASTE LABORATORY CERTIFIED BY CALIFORNIA DEPT OF PUBLIC HEALTH

Central Coast  
 Analytical Services, Inc.  
 141 Suburban Road, Suite C-4  
 San Luis Obispo, California 93401  
 (805) 543-2553

Lab Number : D2198  
 Collected : 04/01/87  
 Received : 04/02/87  
 Tested : 04/02/87  
 Collected by: M. Bell

ERM-WEST  
 1777 Botelho Dr., Suite 260  
 Walnut Creek, CA 94596

EPA METHOD 8240  
 Sample Description:  
 Job #238; Greyhound, Oakland  
 B5 water

Compound Analyzed	Detection Limit (ug/l)	Concentration (ug/l)
Benzene	0.1	not found
Bromodichloromethane	0.1	not found
Bromoform	0.2	not found
Carbon Tetrachloride	0.1	not found
Chlorobenzene	0.1	not found
2-Chloroethyl Vinyl Ether	1.	not found
Chloroform	0.1	not found
Dibromochloromethane	0.1	not found
1,2-Dichlorobenzene	0.1	not found
1,3-Dichlorobenzene	0.1	not found
1,4-Dichlorobenzene	0.1	not found
Dichlorodifluoromethane	1.	not found
1,1-Dichloroethane	0.1	not found
1,2-Dichloroethane (EDC)	0.1	not found
1,1-Dichloroethene	0.1	not found
c-1,2-Dichloroethene	0.1	not found
t-1,2-Dichloroethene	0.1	not found
1,2-Dichloropropane	0.1	not found
c-1,3-Dichloropropane	0.1	not found
t-1,3-Dichloropropane	0.1	not found
Dichlorotrifluoroethane	0.1	not found
Ethylbenzene	0.1	not found
Ethyl Chloride	0.1	not found
Methyl Bromide	0.1	not found
Methyl Chloride	0.2	not found
Methylene Chloride	10.	not found
Methylethyl Ketone (MEK)	5.	not found
Methylisobutyl Ketone (MIBK)	5.	not found
1,1,2,2-Tetrachloroethane	0.5	not found
Tetrachloroethylene (PCE)	0.1	not found
Toluene	0.2	not found
1,1,1-Trichloroethane (TCA)	0.1	not found
1,1,2-Trichloroethane	0.1	not found
Trichloroethene (TCE)	0.1	not found
Trichlorotrifluoroethane (F113)	10.	not found
Trichlorofluoromethane(F-11)	0.1	not found
Vinyl Chloride	0.1	not found
Xylenes	0.1	not found

Percent Recovery of Sample-Specific Quality Assurance Spike is: 130.

CLEAN - NO SUPPLEMENT FOUND.

Respectfully submitted,  
 CENTRAL COAST ANALYTICAL SERVICES  
*Mary D. Havlicek*  
 Mary D. Havlicek, Ph.D., President

MAJOR DIVISIONS		GROUP SYMBOLS	TYPICAL NAMES	
COARSE-GRAINED SOILS MORE THAN 60% RETAINED ON NO. 200 SIEVE*	GRAVELS 60% OR MORE OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	CLEAN GRAVELS	GW WELL-GRADED GRAVELS AND GRAVEL-SAND MIXTURES, LITTLE OR NO FINES	
		GRAVELS WITH FINES	GP POORLY GRADED GRAVELS AND GRAVEL-SAND MIXTURES, LITTLE OR NO FINES	
		GRAVELS WITH FINES	GM SILTY GRAVELS, GRAVEL-SAND-SILT MIXTURES	
		GRAVELS WITH FINES	GC CLAYEY GRAVELS, GRAVEL-SAND-CLAY MIXTURES	
	SANDS MORE THAN 60% OF COARSE FRACTION PASSES NO. 4 SIEVE	CLEAN SANDS	SW WELL-GRADED SANDS AND GRAVELLY SANDS, LITTLE OR NO FINES	
		SANDS WITH FINES	SP POORLY GRADED SANDS AND GRAVELLY SANDS, LITTLE OR NO FINES	
		SANDS WITH FINES	SM SILTY SANDS, SAND-SILT MIXTURES	
		SANDS WITH FINES	SC CLAYEY SANDS, SAND-CLAY MIXTURES	
		FINE-GRAINED SOILS 60% OR MORE PASSES NO. 200 SIEVE*	SILTS AND CLAYS LIQUID LIMIT 60% OR LESS	ML INORGANIC SILTS, VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS
				CL INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
OL ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY				
SILTS AND CLAYS LIQUID LIMIT GREATER THAN 60%	MH INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SANDS OR SILTS, ELASTIC SILTS			
	CH INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS			
	OH ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY			
HIGHLY ORGANIC SOILS	PT PEAT, MUCK AND OTHER HIGHLY ORGANIC SOILS			

\* BASED ON THE MATERIAL PASSING THE 3 INCH (75 mm) SIEVE.

## UNIFIED SOIL CLASSIFICATION SYSTEM

Project Grayhound Owner \_\_\_\_\_  
 Location Oakland, CA W.O. Number 238  
 Well Number B1 Total Depth 16' 6" Diameter 6"  
 Surface Elevation \_\_\_\_\_ Water Level: Initial none 24-hrs. \_\_\_\_\_  
 Screen: Dia 2" Length 5' Slot Size .010  
 Casing: Dia 2" Length 10' Type Schedule 40 PVC  
 Drilling Company ENEXCO Drilling Method Solid Stem Auger  
 Driller Bill Jarvis Log By M Bell Date Drilled 3/16/87

Sketch Map  
 33' from North line  
 41' from West line  
 Notes  
 temp PVC, no backfill

Depth (Feet)	Graphic Log	Well Construction	Sample Number	Description/Soil Classification (Color, Texture, Structures)
	SM			Chocolate Brown Sandy Soil
5'	SM			Asphalt, Pieces of Brick Air Sample (5')
				Pieces of Cement
10'	SC			Air Sample (10')
				Asphalt, Misc. Rubble
				Medium Brown Sandy Soil, Clay Matrix, Damp
15'	SC			Misc. Rubble
				Air Sample (14 1/2')
				Drive Sample 14 1/2' - 16 1/2'
				Bottom of Hole 16 1/2'



Project Greyhound Owner \_\_\_\_\_  
 Location Oakland, CA W.O. Number 238  
 Well Number B2 Total Depth 16'6" Diameter 6"  
 Surface Elevation \_\_\_\_\_ Water Level Initial none 24-hrs. \_\_\_\_\_  
 Screen: Dia NA Length NA Slot Size NA  
 Casing: Dia NA Length NA Type NA  
 Drilling Company ENEX CO Drilling Method Solid Stem Auger  
 Driller Bill Jarvis Log By M. Bell Date Drilled 3/16/87

Sketch Map  
 99' from East line  
 113' from North line  
 Notes  
 backfilled w/ native material

Depth (Feet)	Graphic Log	Well Construction	Sample Number	Description/Soil Classification (Color, Texture, Structures)
	SM	NA		Chocolate Brown Sandy Soil
5'	SC			Air Sample (5') Medium Brown Sandy Soil Clay Matrix Slightly Damp
10'	SC			Air Sample (10') ↓ Asphalt Chunks
15'	SC		2 <del>ERM</del>	Air Sample (15') Medium Brown Sandy Soil Clay Matrix, Damp Drive Sample 17 1/2 - 16 1/2'  Bottom of hole: 16 1/2'

Project Greyhound Owner \_\_\_\_\_  
 Location Oakland, CA W.O. Number 238  
 Well Number B3 Total Depth 16 1/2" Diameter 6"  
 Surface Elevation \_\_\_\_\_ Water Level: Initial none 24-hrs \_\_\_\_\_  
 Screen: Dia NA Length NA Slot Size NA  
 Casing: Dia NA Length NA Type NA  
 Drilling Company ENEXCO Drilling Method Solid Stem Auger  
 Driller Bill Jarvis Log By M. Bell Date Drilled 3/16/87

Sketch Map  
 83' from East line  
 103' from North line  
 Notes  
 filled w/ native  
 backfill

Depth (Feet)	Graphic Log	Well Construction	Sample Number	Description/Soil Classification (Color, Texture, Structures)
	SM	NA		Chocolate Brown Sandy Soil
5'	SC			Air Sample (5') Medium Brown Sandy Soil Clay Matrix No pebbles or fill
10'	SC			Air Sample (10') Medium Brown Sandy Soil Clay Matrix, Damp
15'	SC		3 ERM	Air Sample (14 1/2') Medium Brown Sandy Soil, Clay Matrix Damp  Drive Sample 17 1/2' - 16 1/2'  Bottom of hole 16 1/2'

Client Greyhound Owner \_\_\_\_\_  
 Location Oakland, CA W.O. Number 238  
 Well Number B9 Total Depth 16 1/2' Diameter 6"  
 Surface Elevation \_\_\_\_\_ Water Level Initial none 24-hrs \_\_\_\_\_  
 Screen Dia NA Length NA Slot Size NA  
 Casing Dia NA Length NA Type N/A  
 Drilling Company ENEXCO Drilling Method Solid Stem Auger  
 Driller Bill Jarvis Log By M. Bell Date Drilled 3/16/87

Sketch Map  
 99' from East line  
 86' from South line  
 Notes: filled w/ native backfill

Depth (Feet)	Graphic Log	Well Construction	Sample Number	Description/Soil Classification (Color, Texture, Structures)
		NA		chocolate Brown Sandy Soil Misc. Rubble, Pieces of Asbestos ↓ Air Sample (5')
5'	SC			medium brown Sandy Soil clay Matrix Damp Air Sample (11')
10'	SC		<del>XXXX</del>	Drive Sample 10 - 12'
	SC		EPIC	Medium Brown Sandy Soil, Clay Matrix Damp Air Sample (16 1/2')
15'				Bottom of hole 16 1/2'

Project Greyhound Owner \_\_\_\_\_  
 Location Oakland, CA W.O. Number 238  
 Well Number B5 Total Depth 17 1/2' Diameter 6"  
 Surface Elevation \_\_\_\_\_ Water Level: Initial none 24-hrs \_\_\_\_\_  
 Screen: Dia. 2" Length 5' Slot Size .010  
 Casing: Dia. 2" Length 18' Type Schedule 40 PVC  
 Drilling Company ENEXCO Drilling Method Solid Stem Auger  
 Driller Bill Jarvis Log By M. Bell Date Drilled 3/17/87

Sketch Map  
 51' from South l.c.  
 87' from East l.c.  
 Notes  
 Temp Casing  
 No Backfill

Depth (feet)	Graphic Log	Well Construction	Sample Number	Description/Soil Classification (Color, Texture, Structures)
	SM			Chocolate Brown Sandy Soil misc. Rubble
5'	SC			Air Sample (5') Medium Brown Sandy Soil, Clay Matrix Slightly Damp
10'	SC		5a	Smell Sweet Odor Air Sample (10')
			ERM	Medium Brown Sandy Soil, Clay Matrix, Dense Drive Sample 10'-12'
15'	SC		5b	Medium Brown Sandy Soil, Clay Matrix, Dense Damp.
			ERM	Smell Sweet Odor Air Sample (15') Drive Sample 15 1/2' - 17 1/2'
20'				Bottom of hole 17 1/2'

Project Greyhound Owner \_\_\_\_\_  
 Location Oakland, CA W.O. Number 238  
 Well Number B6 Total Depth 17 1/2' Diameter 6"  
 Surface Elevation \_\_\_\_\_ Water Level: Initial 16' 24-hrs \_\_\_\_\_  
 Screen: Dia. 2" Length 5' Slot Size .010  
 Casing Dia. 2" Length 12' Type Schedule 90 PVC  
 Drilling Company ENEXCO Drilling Method Solid Stem Auger  
 Driller Bill Farvis Log By M. Bell Date Drilled 3/17/87

Sketch Map  
 41' from West line  
 112' from North line  
 Notes  
 Temp. Casing  
 No Backfill

Depth (Feet)	Graphic Log	Well Construction	Sample Number	Description/Soil Classification (Color, Texture, Structures)
	SP			Chocolate Brown Sandy Soil
5'	SC			Air Sample (5') Medium Brown Sandy Soil, Clay Matrix
	SC			↓ Air Sample (10') Medium Brown Sandy Soil, Clay Matrix Damp
10'	SC			Saturated, Light Brown Sandy Soil, Clay Matrix
15'	SC		6	Drive Sample 15 1/2' - 17 1/2'
			ERM	Air Sample (17 1/2')
20'				Bottom of Hole 17 1/2'

Project Greyhound Owner \_\_\_\_\_  
 Location Oakland, CA W.O. Number 038  
 Well Number B7 Total Depth 17 1/2 Diameter 6"  
 Surface Elevation \_\_\_\_\_ Water Level: Initial none 24-hrs \_\_\_\_\_  
 Screen: Dia NA Length NA Slot Size NA  
 Casing: Dia NA Length NA Type NA  
 Drilling Company ENEXCO Drilling Method Solid Stem Auger  
 Driller Bill Jarvis Log By M. Bell Date Drilled 3/17/87

Sketch Map  
 39' from West line  
 79' from North line  
 Notes  
 filled w/ native  
 backfill

Depth (Feet)	Graphic Log	Well Construction	Sample Number	Description/Soil Classification (Color, Texture, Structures)
5'	SM	NA		Chocolate Brown Sandy Soil ↓ Air Sample (5')
10'	SC			Medium Brown Sandy Soil Clay Matrix ↓ Air Sample (10')
15'	SC		7	Light Brown Sandy Soil Clay Matrix, Very Dense Damp Air Sample (15')
30'	SC		ERM	Drive Sample 15 1/2 - 17 1/2'  Bottom of Hole 17 1/2'

















**CHAIN OF CUSTODY AND SAMPLE IDENTIFICATION RECORD**

ERM-West  
Environmental  
Resources  
Management

Client: Greyhound  
Sampler (s): M. Bell  
Date: 3/17/87  
Weather: Sunny, 55° F.

Job Location: Oakland, CA  
Job No: 238  
No. of Samples Collected: 8

page 1 of 2

1777 Botelho Drive  
Suite 260  
Walnut Creek, CA 94596  
(415) 946-0455

Sample ID #	Time	Sample Type		Volume	No. of Contrs. Contrn. Type	Preservative	Iced (Y/N)	Sampling Method	Analyses
		Water Comp. Grab	Soil Comp. Grab						
1 ✓	<u>3/16/87</u> <u>1 pm</u>	<u>16-16.5'</u>	<u>✓</u>	<u>D-1790</u>	<u>6" Shelby Tube</u>	<u>none</u>	<u>Y</u>	<u>Drive Sample</u>	<u>7-2 P.P.H.P.</u>
2	<u>3/16/87</u>	<u>16-16.5'</u>	<u>✓</u>	<u>D-1791</u>	<u>6" Shelby Tube</u>	<u>none</u>	<u>Y</u>	<u>Drive Sample</u>	<u>4-10 P.P.H.P.</u>
3	<u>3/16/87</u>	<u>16-16.5'</u>	<u>✓</u>	<u>D-1792</u>	<u>6" Shelby Tube</u>	<u>none</u>	<u>Y</u>	<u>Drive Sample</u>	<u>4-10 P.P.H.P.</u>
4	<u>3/16/87</u>	<u>9.50-10'</u>	<u>✓</u>	<u>D-1793</u>	<u>6" Shelby Tube</u>	<u>none</u>	<u>Y</u>	<u>Drive Sample</u>	<u>4-10 P.P.H.P.</u>
5a	<u>3/17/87</u>	<u>11'6"-12'</u>	<u>✓</u>	<u>D-1794</u>	<u>6" Shelby Tube</u>	<u>none</u>	<u>Y</u>	<u>Drive Sample</u>	<u>4-10 P.P.H.P.</u>
5b	<u>3/17/87</u>	<u>17-17.5'</u>	<u>✓</u>	<u>D-1795</u>	<u>6" Shelby Tube</u>	<u>none</u>	<u>Y</u>	<u>Drive Sample</u>	<u>4-10 P.P.H.P.</u>
6 ✓	<u>3/17/87</u>	<u>17-17.5'</u>	<u>✓</u>	<u>D-1796</u>	<u>6" Shelby Tube</u>	<u>none</u>	<u>Y</u>	<u>Drive Sample</u>	<u>4-10 P.P.H.P.</u>

Comments: Placed in cooler  
at 4:30 pm on 3/17/87  
at 4:30 pm

**Custody Record**

Signature, Date/Time

Relinquished: Mark Tuel 3/17/87

Received: Shelley Volter 4pm

Relinquished: \_\_\_\_\_

Received: \_\_\_\_\_

Relinquished: \_\_\_\_\_

Received: \_\_\_\_\_

Relinquished: \_\_\_\_\_

Received: \_\_\_\_\_

**Name and Address of Receiving Laboratory**

Central Coast Analytical

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**CHAIN OF CUSTODY AND SAMPLE IDENTIFICATION RECORD**

ERM-West  
Environmental  
Resources  
Management

Client: Gryhound  
 Sampler (s): M. Bell  
 Date: 3/17/87  
 Weather: Sunny, 55°F

Job Location: Oakland, CA  
 Job No: 238  
 No. of Samples Collected: 8

page 2 of 2

1777 Botelho Drive  
 Suite 260  
 Walnut Creek, CA 94596  
 (415) 946-0455

Sample ID #	Time	Sample Type		Volume	No. of Contnrs. Contnr. Type	Preservative	Iced (Y/N)	Sampling Method	Analyses
		Water Comp. Grab	Soil Comp. Grab						
<u>7</u>	<u>3/17/87</u>		<input checked="" type="checkbox"/>		<u>6" Shelby Tube</u>	<u>none</u>	<u>Y</u>	<u>Drive Sample</u>	<u>Total Petroleum Hydrocarbons</u>

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**Custody Record**  
 Signature, Date/Time

Relinquished: \_\_\_\_\_  
 Received: \_\_\_\_\_  
 Relinquished: \_\_\_\_\_  
 Received: \_\_\_\_\_  
 Relinquished: \_\_\_\_\_  
 Received: \_\_\_\_\_  
 Relinquished: \_\_\_\_\_  
 Received: \_\_\_\_\_

**Name and Address of Receiving Laboratory**  
Central Coast Analytical  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

