CITY OF OAKLAND

CITY HALL • 1333 BROADWAY • OAKLAND, CALIFORNIA 94612

Office of Public Works

(510) 238-3961
FAX: (510) 238-2233
TDD (510) 839-6451

April 28, 1993

Leslie C. Wong
Excess Land Sales
State of California
Department of Transportation
PO Box 23440
Oakland, CA 94623

Re: 4-AlA-980
Parcel DD-39591-01-01
6th and Castro Streets

Dear Ms. Wong:

This letter is in response to your April 14, 1993 letter regarding the referenced surplus property.

The City completed the attached report. I am enclosing a copy of the report for your Hazardous Waste Coordinator to review. The report suggests soil problems on site.

The City is interested in the site only if the soil problems are cured and the site is ready for development. Please get back to me with the acquisition time frame. I can be reached at (510) 238-3541.

If you have any questions regarding the report, please call Julie Carver at (510) 238-6361.

Sincerely,

Frank Fanelli

Frank Fanelli, ASA
Manager, Real Estate Services

FF:krs
Attachment

cc: James Branch, Office of Housing and Neighborhood Development
Warren Branscum, OPW Real Estate
Julie Carver, OPW Environmental Programs
Harry Schrauth, OPW Administration
Roy Schweyer, Office of Housing and Neighborhood Development

01-0012

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ENGEO
INCORPORATED

GEOTECHNICAL & ENVIRONMENTAL CONSULTANTS

In Reply
Please Refer to:
3493-F3

January 27, 1993

City of Oakland
OPW Environmental Affairs Division
Oakland, CA 94612

Attention: Julie Carver

Subject: 6th Street and Castro Street Parcel
Oakland, California

PHASE ONE ENVIRONMENTAL SITE ASSESSMENT

Dear Ms. Carver:

We are pleased to present our phase one environmental site assessment of the subject property consisting of a city block bordered by 6th, 7th, Brush and Castro Streets in Oakland, California. The attached report includes a description of assessment activities, along with ENGEO's findings and recommendations regarding the property.

We are pleased to be of service to you on this project. If you have any questions concerning the contents of our report, or require additional services, please contact our office.

Very truly yours,

ENGEO INCORPORATED

Eric Harrell
Staff Environmental Geologist

Reviewed by:

Brian Flaherty
CEG 1256

■ 2401 CROW CANYON ROAD • SUITE 200 • SAN RAMON, CALIFORNIA 94583-1545 • (510) 838-1600 • FAX (510) 838-7425

REPORT

to

CITY OF OAKLAND

OAKLAND, CALIFORNIA

PHASE ONE ENVIRONMENTAL SITE ASSESSMENT

for the

6TH STREET AND CASTRO STREET PARCEL

OAKLAND, CALIFORNIA

ENGEO INCORPORATED 3493-F3

JANUARY 27, 1993

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EXECUTIVE SUMMARY

The subject site, Assessors Parcel Number (APN) 1-221-14-1, is surrounded by Brush, 7th, Castro and 6th Streets in Oakland, California (Figure 1). The State of California is the current owner of the parcel with a CALTRANS parcel number of DD39591-01-01. With the exception of two piers from an elevated section of Interstate Highway 980 no permanent structures are currently situated on the subject property. Eight city blocks surround the subject parcel with residential, and commercial use including interstate roadways to the northeast and south.

On-site potential environmental concerns were not observed during the site walkover. The subject property is a grass and brush covered parcel with a six-foot-high chain link fence around the perimeter. Scattered fragments of concrete, plywood, metal pipe and reinforcing bar were observed on the parcel. A temporary ground-water monitoring well installed by ERM-West in 1987 was found on the western portion of the property.

Records research found three underground storage tanks were removed from the site at the former Mahoneys Flying A Service Station on January 15, 1971 (Figure 2). A soil and ground-water study conducted by ERM-West in 1987 detected low levels of xylene in soil samples with ethylbenzene, toluene and xylene exposed in laboratory analysis of a ground-water sample. Laboratory analysis of a soil sample recovered in the eastern portion of the site found detectable levels of petroleum hydrocarbons.

Based on the site characterization conducted by ERM-West, the RWQCB wanted ground-water monitoring to be continued to define the plume movement and to possibly identify the source. No ground-water cleanup would be required unless contaminant concentrations increased and posed a significant threat to the beneficial use of ground water in the area. In 1987, the RWQCB did not want new uses or activities to be undertaken that preclude clean-up of soil or ground water at the site.

A number of buildings were situated on the subject property from at least 1889 to 1973. Lead paint was used during this period and could have impacted surface and near surface soil.

The Francis Plating Company of Oakland, a RCRA toxic storage site is located approximately 80 feet northwest of the subject parcel. The plating company had a fire on November 24, 1992 which has temporarily closed the facility. When available, a review of the EPA oversite report should be undertaken to evaluate the potential for the plating works to have impacted the ground-water beneath the subject property.

A former gasoline service station was also identified on the northern corner of the intersection of 7th and Castro Streets. Depending on the historical use and condition of underground storage tanks at this site the potential exists for impacts to the soil and/or ground water at the subject property.

A soil and ground water investigation should be undertaken to further characterize the site conditions from past use. Surface and near-surface samples should be collected for laboratory testing to determine the lead and heavy metal levels in the soil. Those portions of the parcel identified with past commercial use should be investigated. At a minimum, soil samples collected from these areas should be submitted for laboratory testing for the suspected compounds used in each business. Ground water collected from either permanent monitoring wells or by Hydropunch sampling should be tested for the suspected compounds used on the parcels and compounds from off-site sources.

INTRODUCTION

Purpose and Scope

The purpose of this study was to assess the potential environmental concerns on the subject property. The scope of services included: (1) a site walkover, (2) a review of aerial photographs, Sanborn Fire Insurance Maps, and USGS topographic maps, (3) a records search of information maintained by city, state, county and federal agencies regarding the subject parcel and nearby properties, and (4) preparation of this report with our findings and recommendations.

Property Description

The subject site identified by Assessors Parcel Number (APN) 1-221-14-1 is surrounded by Brush Street, 7th Street, Castro Street and 6th Street (Figure 1). No structures are located on the subject property with the exception of two piers from an elevated section of Interstate Highway 980. The parcel is covered with grass and surrounded by a perimeter fence. The site is relatively level at an elevation of ± 20 feet above mean sea level. A storm drain inlet is located on the western portion of the property. Eight city blocks surround the subject parcel with residential and commercial use, including interstate highways to the northeast and south (Figure 1).

Site Geology

The geologic deposits beneath the property have been mapped as the Merritt Sand. These deposits are described as loose, fined grained very well sorted beach and wind blown sand. Subsurface investigations conducted by ERM West on the subject parcel encountered fill in the upper 3 to 5 feet with the exception of borehole Nos. 1 and 2 where fill was encountered down to the bottom of the borings at 15 feet. Concrete, asphalt and brick were

mixed with the fill materials. The native soils were logged as a medium brown sand with increasing amounts of clay with depth. Ground water was measured at a depth of approximately 15 feet beneath the existing ground surface. Ground-water flow direction was not determined during ERM's investigation but has been reported to be toward the south in a hydrogeologic study on a nearby parcel.

SITE WALKOVER

A site walkover was conducted by an ENGEO Incorporated environmental geologist on January 19, 1993. The property was viewed for hazardous materials storage, surficial staining or discoloration, debris, stressed vegetation, or other conditions which may be indicative of potential sources of soil or ground-water contamination. The site was also inspected for fill/ventilation pipes, ground subsidence, or other evidence of existing or pre-existing underground storage tanks.

The subject property is a grass and brush covered parcel surrounded by a six-foot-high chain-link fence. Scattered fragments of concrete, plywood, metal pipe and reinforcing bar were found on the parcel. A temporary ground-water monitoring well installed by ERM-West in 1987 was found in the western portion of the property in the approximate location of Boring B1 (Figure 2). Two piers for an elevated section of Interstate Highway 980 are situated on the northeastern portion of the site.

Acorn Plaza, with retail shops, is located one block north of the subject property. Interstate 980 is situated to the northeast with open space and residences to the east. Piers for Interstate 980 are situated on the block southeast of the subject parcel. Interstate 880 is located above the parcels south of the subject property. The parcels to the southwest, beneath Interstate 880, were used for automobile, truck and equipment storage at the time of the site walkover. An auto parts store, Shell Service Station and the Francis Plating Company of Oakland are located on the block northwest of the subject property.

At the time of the site walkover, a clean up was being undertaken at the Francis Plating Company of Oakland due to a fire that had occurred at the plating works on November 17, 1992. The site cleanup was being conducted by Erthco Environmental Services with Mr. Leonard Lamb overseeing operations on the site. A number of containers were on the site

for the removal of hazardous debris. Mr. Brad Shipley provided oversite for the Environmental Protection Agency (EPA) for the first month of the cleanup.

RECORDS SEARCH

Local, state and federal agencies were contacted to obtain information regarding the subject parcel and known contaminated properties in the immediate vicinity. Agencies contacted included:

1. City of Oakland Building Inspection and Planning Departments.
2. City of Oakland Fire Department
3. City of Oakland Library - Oakland History Room
4. Alameda Department of Environmental Health, Division of Hazardous Materials
5. California Regional Water Quality Control Board, San Francisco Bay Region (RWQCB)
6. State Water Resources Control Board (SWRCB)
7. California Environmental Protection Agency (CAL-EPA) Department of Toxics Substance Control (DTSC), North Coast Region
8. U.S. Environmental Protection Agency (Region IX)
9. Cal Trans
10. Moseman Construction

The City Building Inspection and Planning Department offices were contacted for information concerning use of the subject property. The City Fire Department was contacted for information concerning hazardous material storage or spills on the property and to review fire department inspection and underground storage tank records.

The Alameda Department of Environmental Health, Division of Hazardous Materials underground storage tank/hazardous waste generator/hazardous material management plan (2185 program) data base was reviewed for information regarding the subject property and properties within one-half mile of the site.

The RWQCB Fuel Leaks List and the RWQCB North Bay Toxics List were reviewed for leaking tank or other documented contaminated sites within one half mile and one mile of the property respectively. The *Solid Waste Assessment Test List* (SWAT) maintained by the RWQCB and the *Solid Waste Information System List* (SWIS) prepared by The Office of Solid Waste Management were reviewed for active or inactive landfill sites within one mile of the subject property.

The *Expenditure Plan For The Hazardous Substance Cleanup Bond Act of 1984* (Revised January 1990), *Abandoned Site Program Information System List* (ASPIS), and the *Hazardous Waste and Substances List* (Cortese List) were reviewed for information on documented contaminated sites within one mile of the subject property.

The U.S. Environmental Protection Agency was contacted to provide available listings of known hazardous waste facilities in the site vicinity. Information was requested regarding the *Comprehensive Environmental Response Compensation and Liability Act List* (CERCLIS), and the *Resource Conservation and Recovery Act* (RCRA) List.

No title report was available for the subject parcel. Copies of agency data bases and personal communication records are maintained in ENGEO's files and can be provided at your request.

City of Oakland Building Inspection and Planning Department

No files were found at the Building Inspection Department for addresses located on the subject parcel. Personnel from the Building Inspection Department stated that after demolition of a building, records for that building are destroyed. A review of the records for relocated buildings did not find that the buildings formerly on the subject property were moved to new locations.

A Sanborn Fire Insurance Map maintained and modified by the Building Department was reviewed and the results are discussed in the Sanborn Map review section.

Oakland Fire Department

A permit to remove three underground storage tanks was issued on January 7, 1971, for 738 6th Street. The underground tanks were listed as having volumes of 10,000, 7,500 and 5,000 gallons each. The permit listed the owner as the State of California Division of Highways. The underground storage tank location is listed as 20 feet east of Brush Street on the north side of 6th Street. No Fire Department Inspection Reports were available for the businesses formerly on the subject property. A copy of the underground storage tank site removal permit is included in Appendix B.

Oakland Library - Oakland History Room

Kelts Geographical Directory (1936) and Polk's Oakland City Directory (1967) were reviewed for businesses and residences located at the subject parcel and nearby properties. Ten addresses on the subject parcel were identified in the 1936 listings including Sunset Manufacturing Company (615 Castro Street), Durham Farm Creamery (701 7th Street), Sunrise Laundry Company (717 7th Street), Market Garage (733 7th Street) and Larson's Wine Shop (741 7th Street).

Twenty eight addresses were identified in the 1967 directory. The identified commercial properties are as follows:

6th Street

728 Eagle Garage Auto Repair
740 Mahoneys Flying A Service and Gas Station

7th Street

701 Durham Farm Creamery Incorporated
703 Durham Farm Creamery Plant
725 Gus Pool Room
733 Car Parts Center
741 Sunrise Laundry Company
747 Old Mexico Bar and Tavern

Properties with potential environmental concerns identified on adjacent blocks included Messiah's Advocate Job Printing (716 7th Street), New City of Paris Laundry (772 7th Street), Blk Gen Petroleum Corp (800 7th Street), Texaco Service Station (808 8th Street), Seal-Tuff Paint Company (690 7th Street), Francis Plating of Oakland Incorporated (785 7th Street), Leon Fuller Mobil Service (700 Castro Street) and Continental Machine Works and Metal Stamping Company (729 Castro Street). The locations of most of these sites are shown on Figure 3.

Alameda County Assessors Office

The subject property is identified by assessors parcel number (APN) 1-221-14-1. Addresses listed for the subject parcel include: 616 Brush Street; 603, 609, 611 and 615 Castro Street; 716, 720, 722, 728, 738 and 740 6th Street and 701, 717, 725, 738, 747 7th Street.

The State of California acquired the parcels between July 1, 1969, and March 30, 1971. The Durham Farm Creamery was listed as the owner of APN 1-221-5 on March 6, 1964.

Alameda Department of Environmental Health, Division of Hazardous Materials

The subject property is not listed by Alameda County as a underground storage tank site or hazardous waste generator. Review of the county Underground Storage Tank and Local

Oversite Program lists found 41 and 15 sites respectively within one-half mile of the subject property. A listing of these facilities is included in Appendix C.

Alameda County was contacted to provide information on the environmental oversite relating to the cleanup at the Francis Plating Company of Oakland. To date Alameda County has not responded to the request for information.

Regional Water Quality Control Board, San Francisco Bay Area Region (2)

The subject property and 35 other leaking underground fuel storage tank sites were found on the RWQCB Fuel Leaks List within one half mile of the subject property. A summary of the underground storage tanks information is included in Appendix D. The RWQCB North Bay Toxics List and the Fuel Leaks List identify the subject property at 7th and Brush Street.

Petroleum impact of soil and ground water was documented during a environmental study of the subject property conducted by ERM-West in 1987. A site history compiled by ERM-West stated that the former businesses on the subject parcel with potential environmental concern included a gas station, a diary and a commercial warehouse. ERM-West stated that the gasoline station had at least two USTs with the creamery and warehouse maintaining one underground gasoline storage tank each. No reference was provided for the statement that these businesses maintained underground storage tanks. ERM-West stated that it was their understanding that the underground storage tanks were removed at the time the buildings were demolished and removed.

Seven soil borings were drilled at the subject property with two of these converted to temporary ground-water monitoring wells. A summary of the soil and ground-water laboratory analysis results is presented in Table I.

TABLE I
Soil and Ground-water Laboratory Analysis Results
Proposed Greyhound Site, 7th and Brush Street, Oakland California

Boring	Sample Depth in feet	Matrix	Ethylbenzene	Toluene	Xylenes
B1	16.0 - 16.5	Soil	N.D.	N.D.	0.004
B5	17.0 - 17.5	Soil	1.3	1.5	7.9
B6	17.0 - 17.5	Soil	N.D.	N.D.	0.002
B7	17.0 - 17.5	Soil	N.D.	N.D.	0.002
B1*	12.8 - 15.0	Aqueous	0.0005	0.0003	0.005

*Also detected: Low molecular weight aliphatic and alicyclic hydrocarbons- 0.0012 ppm; C3-C5 alkylbenzene isomers - 0.011 ppm; methyl styrene - 0.001 ppm; methyl indane - 0.002 ppm.

The approximate location of the soil borings are shown on Figure 2. A copy of the report is included in Appendix D.

Two RWQCB responses were reviewed relating to the soil and ground-water impacts found on the subject property. On April 30, 1987, ERM-West contacted Mr. Lester Feldman to provide a preliminary evaluation of the contamination for the Greyhound Corporation, a potential purchaser for the subject parcel. While the subject parcel was not identified as a having a high priority, the letter suggested continued ground-water monitoring to define the plume movement and to possibly identify the source. The letter stated that a ground-water cleanup would not be required unless contaminant concentrations increase and pose a significant threat of beneficial use of ground water in the area.

An evaluation of contamination exposed on the subject parcel was provided by Mr. Stephen Hill of the RWQCB to Mr. Hilinski of the Grubb and Ellis Company on October 30, 1987. The RWQCB recommended a file review to identify past potential environmental concerns.

The RWQCB also recommended that no new uses or activities preclude clean-up of soil at the site. Copies of each of these letters are included in Appendix D.

The subject parcel and 13 other properties within one mile of the subject site were found on the North Bay Toxics List (Appendix E). The Safety-Kleen facility at 404 Market Street is located approximately 500 feet south-southwest of the subject parcel and has had documented ground-water impact from total petroleum hydrocarbons as mineral spirits, 1,1-dichloroethene, 1,1-dichloroethane, 1,2-dichloroethane, 1,2-dichloroethene, vinyl chloride, 1,1,1 trichloroethane, trichloroethene, chlorobenzene, chloroform and tetrachloroethene. The highest concentrations of purgeable halocarbons were detected in two ground-water monitoring wells, located upgradient from the Safety Kleen facility, approximately 330 feet south-southwest of the subject parcel. A Groundwater Technology Report states that the upgradient source for these compounds is unknown but the purgeable halocarbon impact does not appear to be related to the Safety Kleen facility. Based on a reported ground-water gradient flowing to the south, the subject parcel is cross and up gradient from the impacted monitoring wells (Figure 3).

A summary of the North Bay Toxics sites is included in Appendix E.

No active landfills are documented by the RWQCB or the Solid Waste Management Board within one mile of the subject property.

Cal - EPA Toxic Substances Control Division, North Coast Region

The subject property is not listed on the Calsites data base. Thirty-seven properties are documented by DTSC on the Calsites facilities data base, within one mile of the subject site. Thirty three of the sites are listed by the DTSC as requiring no further action (NFA). A review of the site profiles for the non NFA sites did not find information that these sites

could impact the soil and/or ground water at the subject property. A list of the Calsites is included in Appendix F.

No Annual Work Plan (formerly BEP) sites are documented within one mile of the property. Twenty-seven facilities on the Cortese List are within one-half mile of the project site and are included in Appendix G. Sites identified on the Cortese list were compiled from the Regional Water Quality Control Board list of leaking underground storage tank sites.

The Department of Toxics Substances Control has completed limited studies of radon risks throughout the State. Preliminary results indicate that Region 6, in which Alameda County was included, exceeded the Environmental Protection Agency limit of 4 picocuries per liter of air in 5.5 percent of the single-family residences that participated in the study.

U.S. Environmental Protection Agency Region IX

Ten CERCLIS sites are listed by the EPA within one mile of the subject property (Appendix H). A list of the nearby RCRA facilities is included in Appendix I.

Mr. Brad Shipley of the EPA was contacted to provide information on the Francis Plating Company facility at 785 7th Street. After a fire on November 17, 1992, Mr. Shipley provided oversite for the EPA for the first month of the site cleanup before turning the facility oversite over to the Alameda County Department of Environmental Health. Mr. Shipley stated that the EPA had not required a soil and/or ground-water characterization after the fire at the plating facility. Mr. Shipley stated that the EPA Technical Assistance Division would document the cleanup work on the site but that this report would not be available for public review for approximately one month.

Cal Trans

Cal Trans has owned and maintained the subject property since 1970. Mr. Peter Terry, a Cal-Trans Employee, has provided maintenance for the site for approximately two and one half years. Mr. Terry stated that weeds on the site were mowed one to two times a year and the herbicide Round-up is applied along the sidewalk to control weeds. Mr. Terry stated that there has been no materials storage on the site in the past two and one half years.

Moseman Construction

Materials storage was visible on the site in the 1985 aerial photograph review. Ms. Leslie Wong, a Cal-Trans Employee was contacted to obtain information on the contractor involved with the Interstate Highway 980 construction during this time. We were provided with the name of Moseman Construction, P.O. Box 6000 Redding, CA. 96099. No telephone number was available for the Moseman Construction Company. Moseman Construction Company was not found in a review of the telephone listings for Redding, California.

AERIAL PHOTOGRAPH AND MAP REVIEW

The following aerial photographs provided by Pacific Aerial Surveys (Oakland) and the University of California, Berkeley, were reviewed to provide information regarding past conditions and land use at the subject site and in the immediate vicinity:

Photograph Number	Date
AV-11-06-03/04	03-24-47
AV-28-13-42/43	04-14-50
AV-119-09-32/33	08-14-53
AV-337-05-27/28	07-03-59
AV-550-08-21/22	07-25-63
AV-902-05-16/17	05-02-69
AV-1100-05-16/17	04-14-73
AV-1377-05-23/24	07-19-77
AV-2040-05-15/16	06-22-81
AV-2640-05-18/19	05-15-85
AV-3268-05-18/19	03-30-88
AV-4230-09-25/26	04-08-92

Sanborn Fire Insurance Maps were produced for the subject property during the 1889, 1902, 1912, 1951 and 1952 mapping periods. Topographic maps were reviewed for the years 1947, 1959, 1968, and 1980 for indications of topographic or land use changes at the subject parcel.

Prior to the demolition of the buildings on the subject parcel a number of residential and commercial buildings had been situated on the site over the past 85 years. By 1889, on-site businesses included a Chinese laundry, F.E. Knowles Granite Works, a meat market and a warehouse for home moving materials. Changes noted between 1889 and 1902 include development of a marble works and retail stores in the northern portion of the parcel with the removal of the granite works, meat market, and warehouse storage. Residential development had taken place by 1902 in the barn and open space areas. With the exception of the western portion of the subject property, development was relatively unchanged until

building demolition in 1973. Businesses listed on the 1951 and 1952 maps include Painters Storage and Automobile Storage (733 Seventh Street), Sunrise Laundry (717 Seventh Street), Creamery (705 Seventh Street), Roofing Materials Warehouse (615 Castro Street), and retail stores (737-747 Seventh Street).

The Sanborn Map maintained by the Oakland Building Inspection Department shows a service station situated in the western portion of the subject property. A note on the map states that the address for the service station, 740 6th Street, was reissued on March 14, 1956. The location of the service station building and pump islands noted on the 1959 photograph are shown on Figure 2. Three boilers were mapped on the subject property in the creamery, auto shop and Sunrise Laundry. A stamping and machine shop was listed at 615 Castro Street.

By 1973 the buildings on the subject property had been removed or demolished with the exception of the residence at 722 6th Street. No buildings were situated on the subject property after 1977. The parcel was undeveloped after 1977 with the exception of the material storage during the construction of Interstate Highway 980 in 1985. Materials storage on the parcel appeared to consist of stockpiled soil, concrete and wood.

Eight city blocks surround the subject parcel. The nearby blocks have been developed for a mixture of residential and commercial uses over the past 100 years. Two service stations were identified on blocks immediately adjacent to the subject property. By 1951, a service station was located on the southern corner of the intersection of Castro and 7th Street with a second service station located on the northern corner of the intersection of West and 7th Street (Figure 3).

DISCUSSION WITH CONCLUSIONS

Two RWQCB letters were reviewed relating to the soil and ground-water impacts found on the subject property. Based on the site characterization conducted by ERM-West, the RWQCB stated that: (1) the subject parcel was not identified as a having a high priority for cleanup; (2) ground-water monitoring should be continued to define the plume movement and to possibly identify the source; (3) ground-water cleanup would not be required unless contaminant concentrations increase and pose a significant threat of beneficial use of ground water in the area and (4) no new uses or activities should be undertaken that preclude clean-up of soil or ground water at the site.

The following environmental concerns or potential environmental concerns were identified:

Subject Property

1. Three underground storage tanks were removed from the former Mahoneys Flying A Service Station on January 15, 1971. There were no records of soil and ground-water sampling conducted at the time of the underground storage tank removal. A soil and ground-water sampling study was undertaken by ERM-West in 1987 with three exploratory borings drilled on the former gasoline service station site. Low levels of xylene were found in three soil samples with ethylbenzene, toluene and xylene detected in laboratory analysis of a ground-water sample. It does not appear that a soil and/or ground-water sample was recovered down gradient from the former underground storage tank location.

2. Laboratory testing of a soil sample recovered in the eastern portion of the site found detectable levels of petroleum hydrocarbons. The boring was located in the immediate area of a mapped former ground-water production well. A well which has not been properly decommissioned could act as a vertical conduit for the petroleum hydrocarbons found in the soil.

3. The ERM-West reports states, "Both the dairy creamery and the warehouse reportedly had at least one underground storage tank for gasoline storage. It is also reported that the tanks were removed at the time that the buildings were demolished and removed." No information was found during this environmental site assessment documenting the existence or removal of the underground storage tanks.

4. A number of buildings were situated on the subject property from at least 1889 to 1973. Paint containing lead was used during this period and could have impacted surface and near surface soils.

5. A temporary monitoring well installed in 1987 by ERM-West was observed during the site walkover. A second temporary well installed in 1987 was not observed during the site walkover but if located it should be properly decommissioned.

Adjacent Parcels

6. The Francis Plating Company of Oakland is located approximately 80 feet northwest of the subject parcel. The plating works, a RCRA toxic storage facility, has been at its current location for at least the past 25 years. The plating company had a fire on November 24, 1992, which temporarily closed the facility. The EPA provided oversite during the initial fire cleanup activity and to date have not required a soil or ground-water characterization for the plating facility. A final report has yet to be issued by the EPA. The EPA has transferred oversite of the plating works facility to Alameda County Environmental Health Department. To date the Alameda County Environmental Health has not responded to a request for information.

7. A gasoline service station was identified at the northern corner of the intersection of 7th and Castro Streets. Depending on the historical use and condition of underground storage tanks at this site, the potential exists for soil or ground-water impacts to the subject property.

RECOMMENDATIONS

1. Existing and potential impacts to the soil and ground water have been documented on the subject property from a number of possible on-site sources. A subsurface investigation should be undertaken on the portions of the parcel where past site use could have included potential contaminants. The investigation would include the collection of soil and ground-water samples with laboratory analysis.

2. An effort should be made to locate the former ground-water production well and, if found, to decommission the well according to applicable Alameda County ordinances.

3. A geophysical survey of the parcel should be undertaken to identify underground storage tanks or other subsurface structures prior to beginning an intrusive subsurface exploration.

4. Sampling and laboratory testing of surface and near-surface soil is recommended to determine if hazardous levels of lead are present on the site.

5. The temporary monitoring well installed by ERM-West in 1987 should be decommissioned if it is not going to be used for future ground-water monitoring.

6. When available, information from the EPA and Alameda County Environmental Health Department on the Francis Plating Company should be reviewed to evaluate potential impacts to the subject property.

7. Ground-water characterization should be undertaken on the northeastern portion of the subject site to determine the potential upgradient impact from the former gasoline service station situated on the northern corner of 7th and Castro Streets.

LIMITATIONS

The recommendations and conclusions presented in this report were based on the findings of our study which were developed solely from the contracted services. The scope of this investigation was comprised of (1) a site walkover, (2) a review of available and accessible reports and data bases, (3) a review of historical aerial photographs, and (4) preparation of this report. No laboratory analysis of soil or ground-water samples was conducted in association with this assessment.

Visual observations referenced in this report are intended only to represent site conditions on January 19, 1993. ENGEO would not be aware of site contamination, such as dumping and/or accidental spillage which occurred subsequent to the site walkover conducted by ENGEO personnel.

It is recognized and agreed that ENGEO has assumed responsibility only for undertaking the study for the client. The responsibility for disclosures or reports to third party and for remedial or mitigative action, shall be solely that of the Client. ENGEO agrees not to provide a report to any third party not legally required, unless authorized by the Client.

ENGEO Incorporated has prepared this report for the exclusive use of our client, City of Oakland, OPW Environmental Affairs Division. This assessment was performed in accordance with the standard of practice in Northern California in 1993. No other warranties, expressed or implied, as to the services provided are made.

REFERENCES

Regulatory Agency Information:

Alameda Department of Environmental Health, Division of Hazardous Material; Site List for Underground Tank Program, Hazardous Waste Generator Program, Business Plan/2185 Program dated October 16, 1992.

Alameda Department of Environmental Health, Division of Hazardous Material; List of Underground Storage Tank Cleanup sites; dated November 16, 1992.

San Francisco Bay Regional Water Quality Control Board; Fuel Leaks Update dated January 4, 1993.

San Francisco Bay Regional Water Quality Control Board; North Bay Toxics List dated November 10, 1992.

Regional Water Quality Control Board; Solid Waste Assessment Test List (SWAT) dated November 6, 1991.

Office of Solid Waste Management; Solid Waste Information System List (SWIS) dated January 1992.

State of California Environmental Protection Agency, Department of Toxic Substance Control Calsites dated June 29, 1992.

State of California Environmental Protection Agency, Department of Toxics Substances Control; *The Expenditure Plan for Hazardous Substance Cleanup Bond Act of 1984* Revised January 1990.

State of California Environmental Protection Agency, Department of Toxics Substance Control; *Hazardous Waste and Substance Site List* (Cortese List, AB 3750) dated December 14, 1992.

United States Environmental Protection Agency; *Comprehensive Environmental Response Compensation and Liability Act List* (CERCLIS) dated December 10, 1992.

United States Environmental Protection Agency, Region IX, *Resource Conservation and Recovery Act* (RCRA) Notifiers List dated December 14, 1992.

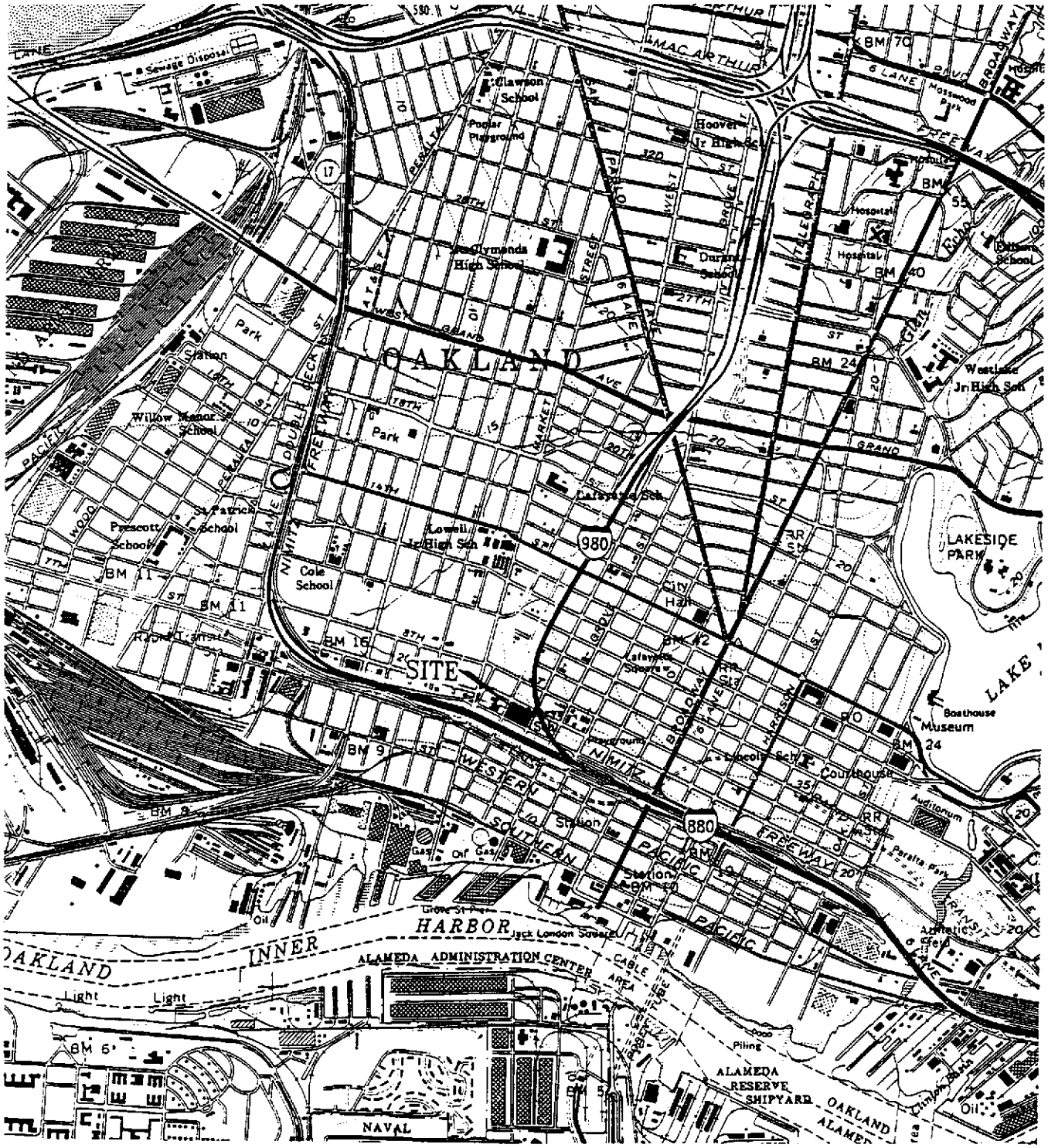
Additional References:

California Division of Mines and Geology, 1982; Special Studies Zone, West Oakland Quadrangle.

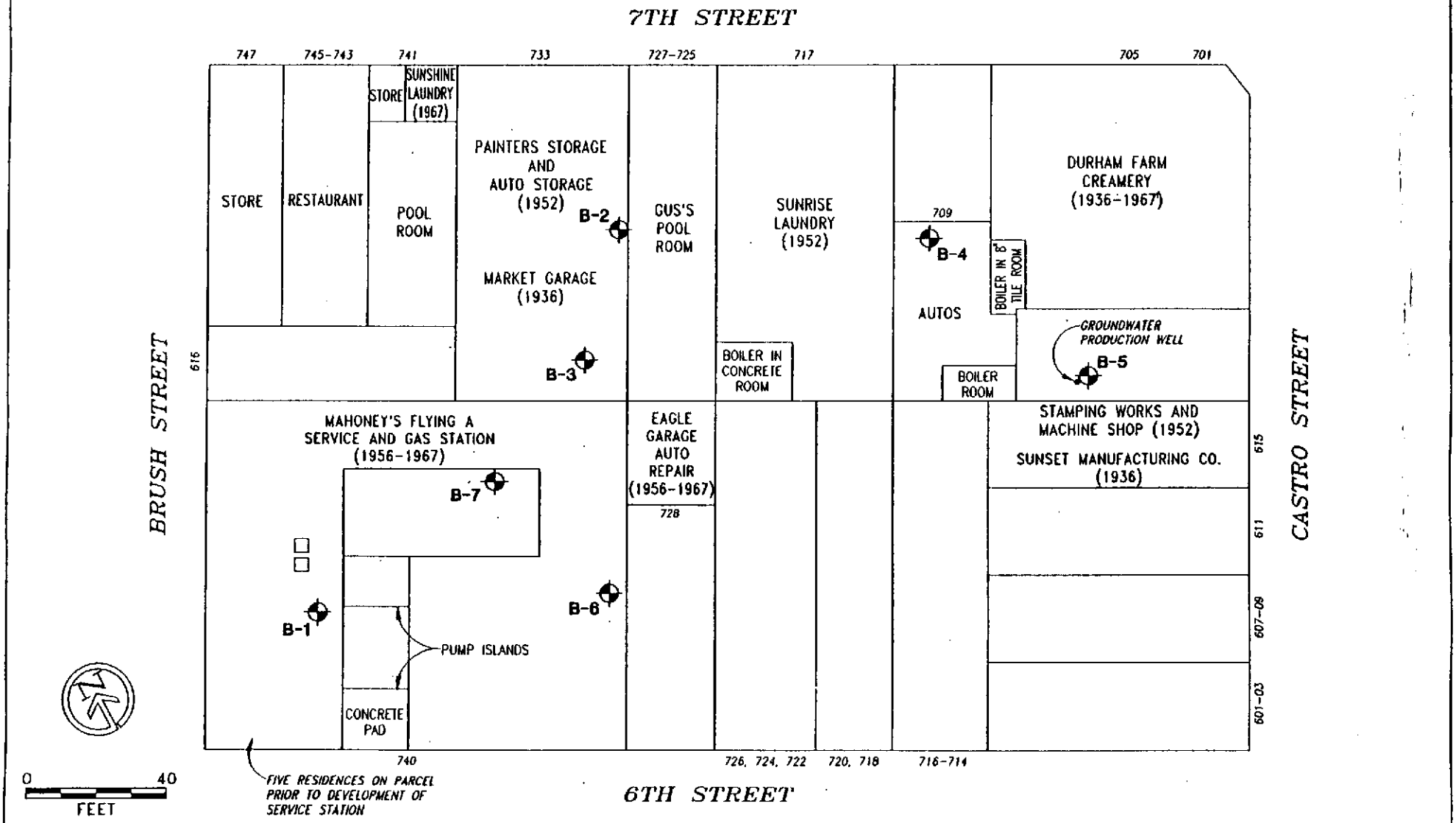
Helley, Lajoie and Burke, 1972; Geologic Map of Late Cenozoic Deposits Alameda County, California; Miscellaneous Field Studies Map MF-429.

APPENDIX A

Figure 1	Site Location
Figure 2	Site Plan
Figure 3	Site Vicinity Map



ENGEO INCORPORATED	SITE LOCATION MAP 7TH AND BRUSH STREET OAKLAND, CALIFORNIA	JOB NO.: 3493-F3 DATE: JANUARY 1993 DRAWN BY: CB CHECKED BY: BF	FIGURE NO. 1



EXPLANATION

B-1 APPROXIMATE LOCATION OF SOIL BORING (ERM-WEST, 1987)

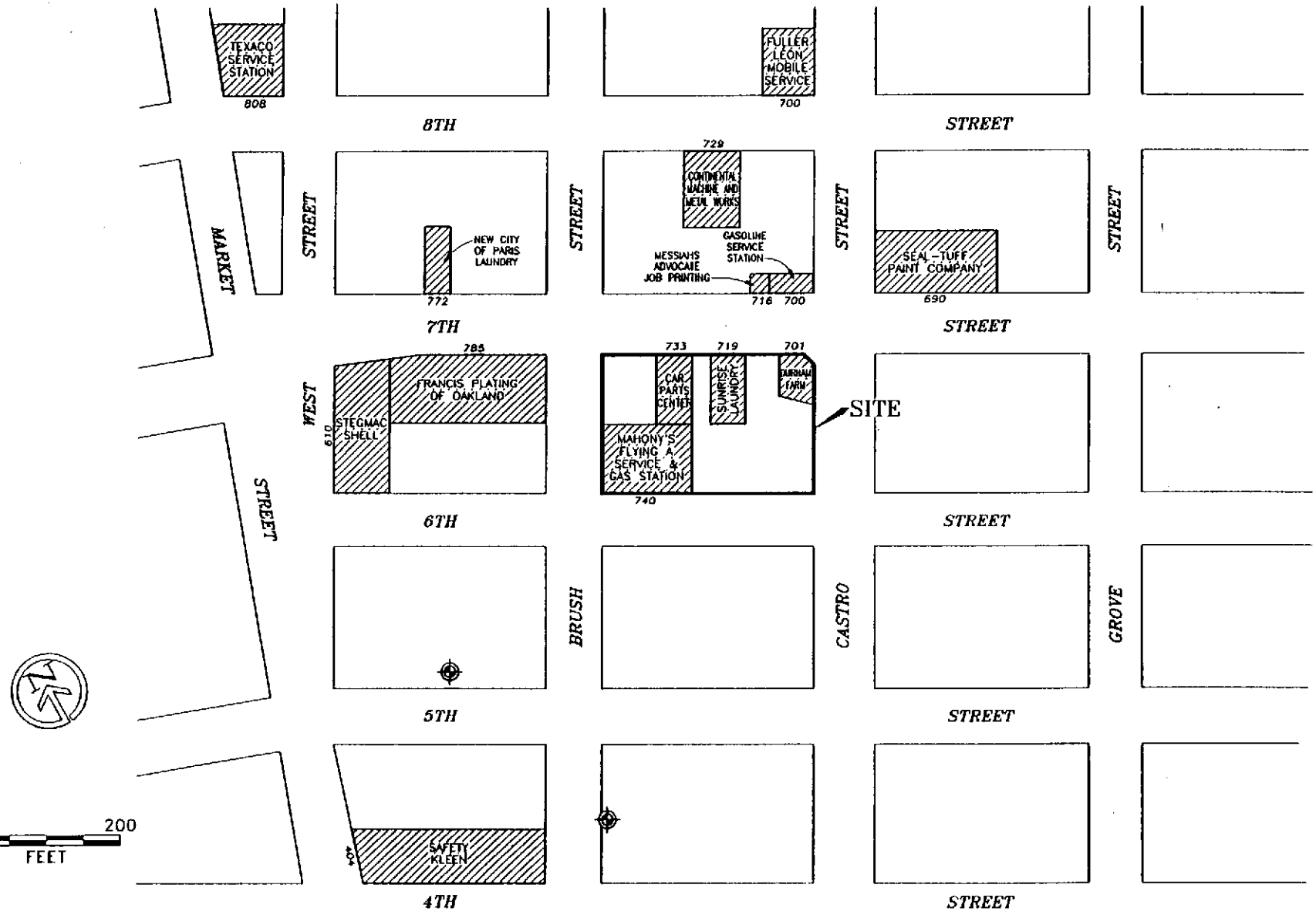
* PAST USE OF SUBJECT PARCEL ADAPTED FROM SANDBORN MAPS, KELTS DIRECTORY (1936) AND POLKS OAKLAND CITY DIRECTORY (1967)

ENGEO INCORPORATED

SITE PLAN
7TH AND BRUSH STREET
OAKLAND, CALIFORNIA

JOB NO.: 3493-F3
DATE: JANUARY 1993
DRAWN BY: CB CHECKED BY: BF

FIGURE NO. 2



* PREPARED FROM SANDBORN MAPS, KELTS DIRECTORY (1936) AND POLKS OAKLAND CITY DIRECTORY (1967)

EXPLANATION

⊕ APPROXIMATE LOCATION OF SAFETY-KLEEN MONITORING WELL *(GROUNDWATER TECHNOLOGY, 1991)*

ENGEO INCORPORATED

SITE VICINITY MAP

7TH AND BRUSH STREET

OAKLAND, CALIFORNIA

JOB NO.: 3493-F3

DATE: JANUARY 1993

DRAWN BY: CS | CHECKED BY: BF

FIGURE NO. 3

APPENDIX B

City of Oakland Permit to Remove Inflammable Liquid Tanks
738 6th Street, Oakland, California

Copy for INSPECTOR

Excavation Permit Granted _____ No. _____

CITY OF OAKLAND

Tank Permit No. 2662

Permit to Excavate and Install, Repair, or Remove Inflammable Liquid Tanks.

Oakland, California, January 7, 19 71

PERMISSION IS HEREBY GRANTED TO [redacted] remove [redacted] Gasoline tank and excavate commencing _____ feet inside property line

on the W side of 6th Street [redacted] 20 feet E of Brush Street [redacted]

House No. 738 - 6th Street [redacted] Present Storage 1 x 10M; 1 x 7,500; 1 x 5M

Owner State of California, Div. Highways Address S.F. Phone _____

Applicant Joseph Ballinger Co. Address 6815 San Leandro St., Oak. Phone 632-6471

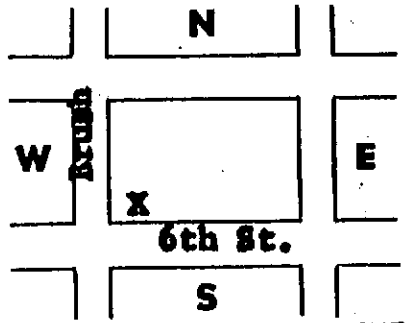
Dimensions of street (sidewalk) surface to be disturbed _____ X _____ Number of Tanks _____ Capacity _____ Gallons, each.

Remarks: Remove existing tanks.

This Permit is granted in accordance with existing City Ordinances.
Owner hereby agrees to remove tanks on discontinuance of use or when notified by the City Authorities.
When installing, removing or repairing tanks, no open flame to be on or near premises.

Approved _____ Fire Marshal

Approved _____ Drainage Division Engineering Dept.



EXCAVATING PERMIT

Issued in accordance with Ord. No. 278 CMS, Sec. 6-2.04

_____ square feet of digging or removal granted.

The receipt of $ _____ special deposit is hereby acknowledged.

GENERAL DEPOSIT.

BUREAU OF PERMITS AND LICENSES.

CERTIFICATE OF TANK AND EQUIPMENT INSPECTION

Inspected and passed on Jan 15 19 71

By Donald J. Mockel #6 Fire Marshal

Inspection Fee Paid . . . . . $ 10.00 (Check No. 3483) (Rec. #62081)PM

Received by Pat McArtis FIRE PREVENTION BUREAU

NOTICE

Before Covering Tanks, Above Certificate Must Be Signed.

When ready for inspection notify Fire Prevention Bureau, 273-3851

THIS PERMIT MUST BE LEFT ON THE WORK AS AUTHORITY THEREFOR.

538-50 (6-67) 93

APPENDIX C

Alameda Department of Environmental Health
Division of Hazardous Materials
Underground Storage Tank/Local Oversite Program Sites
Oakland, California, One-Half Mile Radius

Underground Storage Tanks, Oakland, California

FACILITY	ADDRESS
Harbor Facilities Ga.	205 Brush St.
S and D Chevron Station	17000 Castro St.
Oakland Fire Station	1605 Martin L. King
City Blue Print	1700 Jefferson St.
Oakland Federal Building	1201 Clay St.
Oakland Federal Building	1305 Clay St.
Oakland Piedmont Mun	661 Washington St.
Western Electro Mechanical	300 Broadway
Express Auto Service	333 Broadway
Probation Center	400 Broadway
Oakland Convention Center	1000 Broadway
Bill Lovie's Auto Specialist	800 Franklin St.
City Auto Repair	330 Webster St.
Salvation Army Rehab.	601 Webster St.
Howard Terminal	1 Market St.
Safety Kleen "TDS"	404 Market St.
Stegmac Shell	610 Market St.
East Bay Ford Truck	333 Filbert St.
Aratey Services	330 Chestnut St.
Schnitzer Steel Prod.	Foot of Adeline St.
Svenhard Swedish Bakery	335 Adeline St.
Anchor Container Service	120 Magnolia St.
Burke Company	310 Union St.
Condor Freight Lines	324 Union St.
KTVU Television Channel	2 Jack London Square
Salty-Dog	53 Jack London Square
Oakland Fire Station	100 Jack London Square
Union Machine Shop	534 2nd St.
Coker Pump and Equipment	1055 3rd St.
Oakland Tribune Garage	1221 3rd St.
P.E. O'Hare	309 4th St.
Guarantee Forklift	699 4th St.

Underground Storage Tanks, Oakland, California

FACILITY	ADDRESS
Rino Pacific	1101 5th St.
Central Motor Terminal	1107 5th St.
Police Transportation	495 6th St.
Bay Alarm Company	325 7th St.
Oakland Parking Structure	585 7th St.
Pacific Bell	1075 7th St.
Everridge Exxon Gas Station	1211 7th St.
Cochran and Celli Jeep	345 11th St.
Parking Garage	420 13th St.

Local Oversite Program, Oakland, California

FACILITY	ADDRESS
PG&E - Oakland Power	50 Martin L. King Way
Grove Auto Repair	424 Martin L. King Way
Former Tank Site	1330 Martin L. King Way
Douglas N. Salter	901 Jefferson St.
Oakland City Hall	1417 Clay St.
City Hall Plaza	1 City Hall Plaza
Bramalea Pacific	1111 Broadway
Zimmerman Investment	1330 Broadway
Pacific Renaissance	1000 Franklin St.
Lehar Sales	150 Chestnut St.
Norcal Metal Fabrication	114 Adeline St.
Southern Pacific Transportation	5th and Kirkham
Alameda County Health	499 5th St.
Former Shell Service	461 8th St.
Vend Mart Property	1035 7th St.

Regional Water Quality Control Board Sites
Seventh Street and Brush Street, Oakland, California
(one-half mile radius)

SITE NAME	LOCATION	DISTANCE (feet)	GROUND-WATER IMPACT	GROUND-WATER GRADIENT
Alex Shaw and Associates	800 Franklin St.	2,200 E	Yes	Southwest
Allied Poultry	333 Clay St.	900 SE		
Aratex Services	300 Chestnut St.	1,300 W	Yes	South
Blue Print Service Company	1700 Jefferson St.	2,800 NE	Yes	North-Northeast
Bramalea Pacific	12th and Clay St.	Same site as Bramalea Pacific,1111 Broadway		
Bramalea Pacific	13th and Jefferson St.	1,700 NE	Yes	North
Bramalea Pacific	1111 Broadway	1,700 NE	Yes	North
Bramalea USA Incorporated	901 - 999 Jefferson St.	850 NE	Yes	Unknown
Chinatown Redevelopment Project	11th and Webster St.	2,600 E	Yes	Unknown
City of Oakland	1417 Clay St.	2,200 NE	Unknown	Unknown
City of Oakland Housing Authority	935 Union St.	2,600 NW	No	Unknown
City Auto Repair	330 Webster St.	2,400 SE	Unknown	Unknown
East Bay Ford Truck	333 Filbert	1,100 W	No	Unknown
Five City Center	1300 Clay St.	2,000 NE	No	Unknown
Greyhound	7th and Brush St.	—	Yes	Unknown
Guarantee Forklift	699 4th St.	450 S	Unknown	Unknown
P.E. O'Hare N.A. 1-19-93	339 3rd St.	2,600 SE		
Marine Terminal Corporation	333 Market St.	550 SW	Yes	Unknown
Norcal Metal Fabricators*	1121 3rd St.	1,500 W		

3493-F3
January 27, 1993

ENGEO INCORPORATED

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

TABLE OF CONTENTS

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

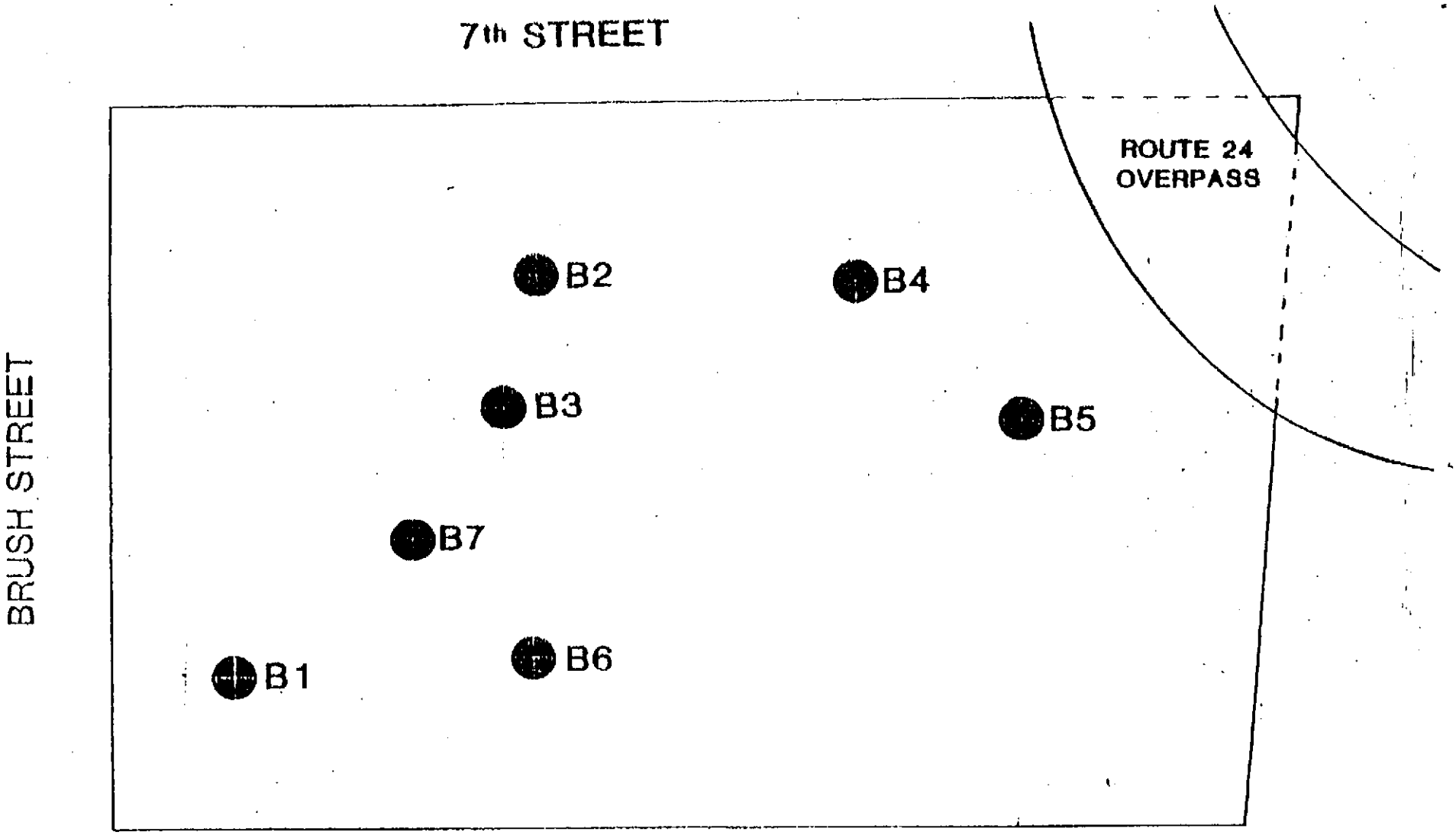
The site that was evaluated for this report is a fenced vacant lot located at Brush between 6th and 7th Streets in Oakland, California (Figure 1). The site is one city block, approximately 60,000 square feet in size.

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.

LIST OF FIGURES

LIST OF TABLES



● BORING LOCATIONS

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

N

SCALE: 1"=40'

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 2, 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	500 ug/kg
		Toluene: 1500 ug/kg	1000 ug/kg
		Xylenes: 7900 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, C1 - C5 alkylbenzene isomers, methylstyrene and methyl indan).

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	0.1 ug/l
		Toluene: 0.3 ug/l	0.2 ug/l
		Xylenes: 5.0 ug/l	0.1 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	

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

MH/mc

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: 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 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 : 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 @ 15.0-16.5'

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 Analytical Services

Central Coast 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

MH/mc

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 : 01793
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, Joa #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. Havlicak

MH/mc

Mary D. Havlicak, Ph.D., President

Central Coast Analytical Services

Central Coast Analytical Services, Inc.
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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 B5c @ 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 O. Havlicek
Mary O. Havlicek, Ph.D., President

MH/mc

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 85b @ 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

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: 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

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: D1797 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 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

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

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 Botelho Dr., Suite 260
Walnut Creek, CA 94596

EPA METHOD 8240
Sample Description:
Job #238: Greyhound, Oakland
81 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-Dichloropropene	0.1	not found
t-1,3-Dichloropropene	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(F-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 O. Havlicek
Mary O. Havlicek, Ph.D., President

MH/mc

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 259
Walnut Creek, CA 94596

Sample Description:

Job #238; Greyhound, Oakland
B1 Water

SUPPLEMENTARY REPORT FOR EPA 8248.

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

Respectfully submitted,
CENTRAL COAST ANALYTICAL SERVICES

Mary Havlicek

Mary Havlicek, Ph.D., President

D2197SUP.WR1/11
MH/ke

AIR, WATER and HAZARDOUS WASTE LABORATORY CERTIFIED by CALIFORNIA DEPT of PUBLIC HEAL

Central Coast Analytical Services

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 : 02198
Collected : 04/01/87
Received : 04/02/87
Tested : 04/02/87
Collected by: M. Bell

ERM-WEST
1777 Botelho Dr., Suite 268
Walnut Creek, CA 94596

EPA METHOD 8240
Sample Description:
Job #238; Greyhound, Ockland
B6 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-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: 130.

CLEAN - NO SUPPLEMENT FOUND.

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

MH/mc

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
			GP	POORLY GRADED GRAVELS AND GRAVEL-SAND MIXTURES, LITTLE OR NO FINES
		GRAVELS WITH FINES	GM	SILTY GRAVELS, GRAVEL-SAND-SILT MIXTURES
			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
			SP	POORLY GRADED SANDS AND GRAVELLY SANDS, LITTLE OR NO FINES
		SANDS WITH FINES	SM	SILTY SANDS, SAND-SILT MIXTURES
			SC	CLAYEY SANDS, SAND-CLAY MIXTURES
FINE-GRAINED SOILS — 60% OR MORE PASSES NO. 200 SIEVE*	SILTS AND CLAYS — LIQUID LIMIT 50% 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 50%		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

Environmental Resources Management

Drilling Log

Project: Confidential Owner

Location: Oakland, CA W.O. Number 233

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
				Asphalt, Pieces of Brick
5'	SM			Air Sample (5')
				Pieces of Cement
	SC			Air Sample (10')
10'				Asphalt, Misc. Rubble
				Medium Brown Sandy Soil,
	SC			Clay Matrix, Damp
			1	Misc. Rubble
15'				Air Sample (14½')
			PKM	Drive Sample 14½' - 16½'
				Bottom of Hole 16½'

Page ____ of ____

Environmental Resources Management

Drilling Log

Project: Greyhound [illegible] Owner:

Location: Oakland CA W.O. Number: 838

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:
?' 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)
		NA		
	SM			Chocolate Brown Sandy Soil
5'	SC			Air Sample (5') Medium Brown Sandy Soil Clay Matrix Slightly Damp
10'	SC			Air Sample (10')
				Asphalt Chunks
	SC		2	
15'			ERM	Air Sample (15') Medium Brown Sandy Soil Clay Matrix, Damp Drive Sample 14 1/2 - 16 1/2'
				Bottom of Hole 16 1/2'

Page ___ of ___

Environmental Resources Management

Drilling Log

Project: [illegible] Owner: ____

Location: Oakland, CA W.O. Number: 938

Well Number: B3 Total Depth: 16 1/2" Diameter: 6"

Surface Elevation: ____ Water Level: Initial: [illegible] 24-hrs: ____

Screen: Dia. N/A Length: N/A Slot Size: N/A

Casing: Dia. N/A Length: N/A Type: N/A

Drilling Company: ENEXCO Drilling Method: Solid Stem Auger

Driller: Bill Jarvis Log By: M. Poll Date Drilled: 3/1?/87

Sketch Map: 33' 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)
	[illegible]	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 15 1/2' - 16 1/2'
				Bottom of Hole 16 1/2'

Environmental Resources Management

Drilling Log

Project: Greyhound — Owner:

Location: Oakland CA — W.O. Number: 035

Well Number: B4 — Total Depth: 16½' — 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 Ball — Date Drilled: 3/16/87

Sketch Map

99' from East line.
35' from South 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 Misc. Rubble, Pieces of Asbestos ↓ Air Sample (5')
5'	SC			Medium Brown Sandy Soil Clay Matrix Damp
	SC			Air Sample (11')
10'				Drive Sample 10 - 12'
			ERM	
	SC			Medium Brown Sandy Soil, Clay Matrix Damp
15'				Air Sample (16½')
				Bottom of Hole 16½'

Environmental Resources Management

Drilling Log

Project: Greyhound — Owner:

Location: Oakland, CA — W.O. Number: 238

Well Number: B5 — Total Depth: 17½' — Diameter: 6"

Surface Elevation: — Water Level: Initial: none — 24-hrs.:

Screen: Dia.: 2" — Length: 5' — Slot Size: .010

Casing: Dia.: 2" — Length: 12' — 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 Line
87' from East Line

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
	SC			Smell Sweet Odor
10'			5a	Air Sample (10') - Medium Brown Sandy Soil, Clay Matrix, Dense
			ERM	Drive Sample 10'-12'
	SC			Medium Brown Sandy Soil, Clay Matrix, Dense Damp
15'			5b	Smell Sweet Odor Air Sample (15')
			ERM	Drive Sample 15½' - 17½'
20'				Bottom of Hole 17½'

Environmental Resources Management

Drilling Log

Project: Greyhound — Owner:

Location: Oakland, CA — W.O. Number: 2238

Well Number: B6 — Total Depth: 17½' — 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 40 PVC

Drilling Company: ENFLO CO — Drilling Method: Solid Stem Auger

Driller: Bill Jarvis — Log By: M. Bell — Date Drilled: 3/17/87

Sketch Map: 91' from West line; 112' from North line.

Notes: Temp. Casing; Ab Backfill

Depth (Feet)	Graphic Log	Well Construction	Sample Number	Description/Soil Classification (Color, Texture, Structures)
	SM			Chocolate Brown Sandy Soil
5'	SC			Air Sample (5') Medium Brown Sandy Soil, Clay Matrix
	SC			
10'	SC			Air Sample (10') Medium Brown Sandy Soil, Clay Matrix Damp
	SC			Saturated, Light Brown Sandy Soil, Clay Matrix
15'			6	Drive Sample 15½' - 17½' Air Sample (17½')
			FRM	
20'				Bottom of Hole 17½'

Environmental Resources Management

Drilling Log

Project: Groundwater Owner:

Location: Oakland, CA W.O. Number: 938

Well Number: BF 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

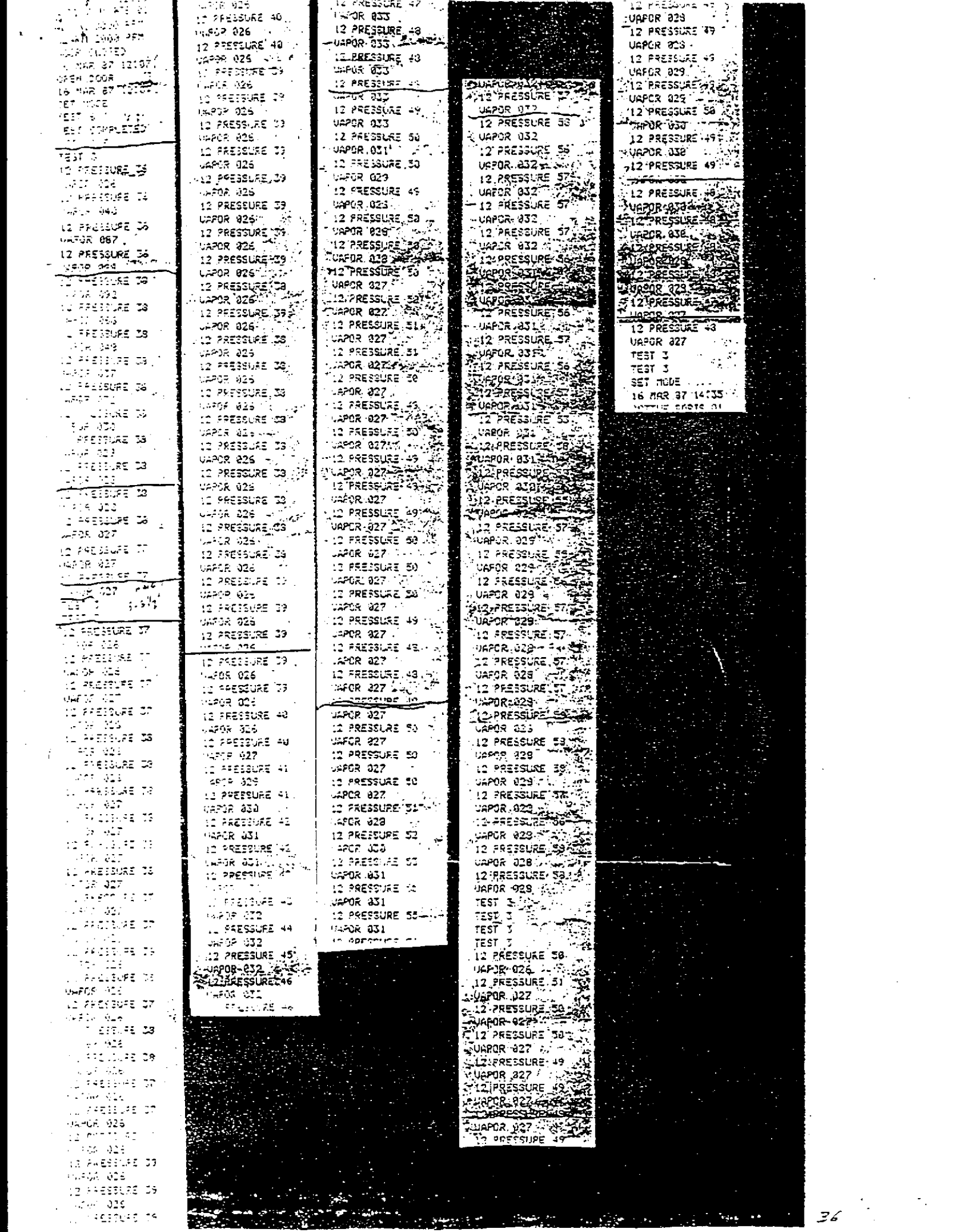
Driller: Bill Jarvis Log By: M. Ball Date Drilled: 3/17/87

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)
		NA		
	SM			Chocolate Brown Sandy Soil
				↓
5'				Air Sample (5')
	SC			Medium Brown Sandy Soil
				Clay Matrix
				↓
10'	SC			Air Sample (10')
				Medium Brown Sandy Soil
				Clay Matrix
				Damp
15'	SC		7	Light Brown Sandy Soil
				Clay Matrix Very Dense
				Damp
			ERM	Air Sample (15')
				Drive Sample 15½-17½'
20'	SC			
				Bottom of Hole 17 1/2'



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TEST 3

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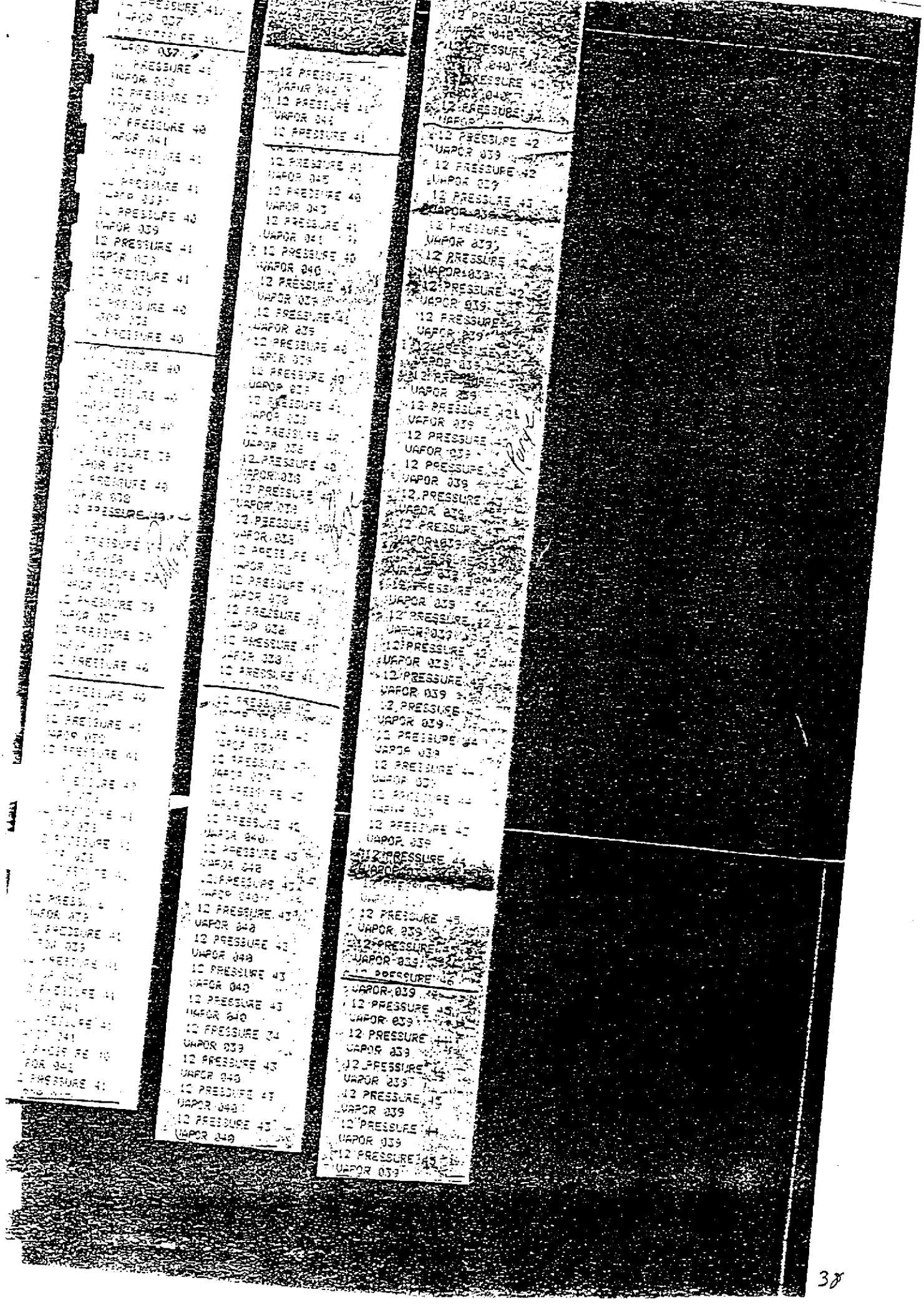
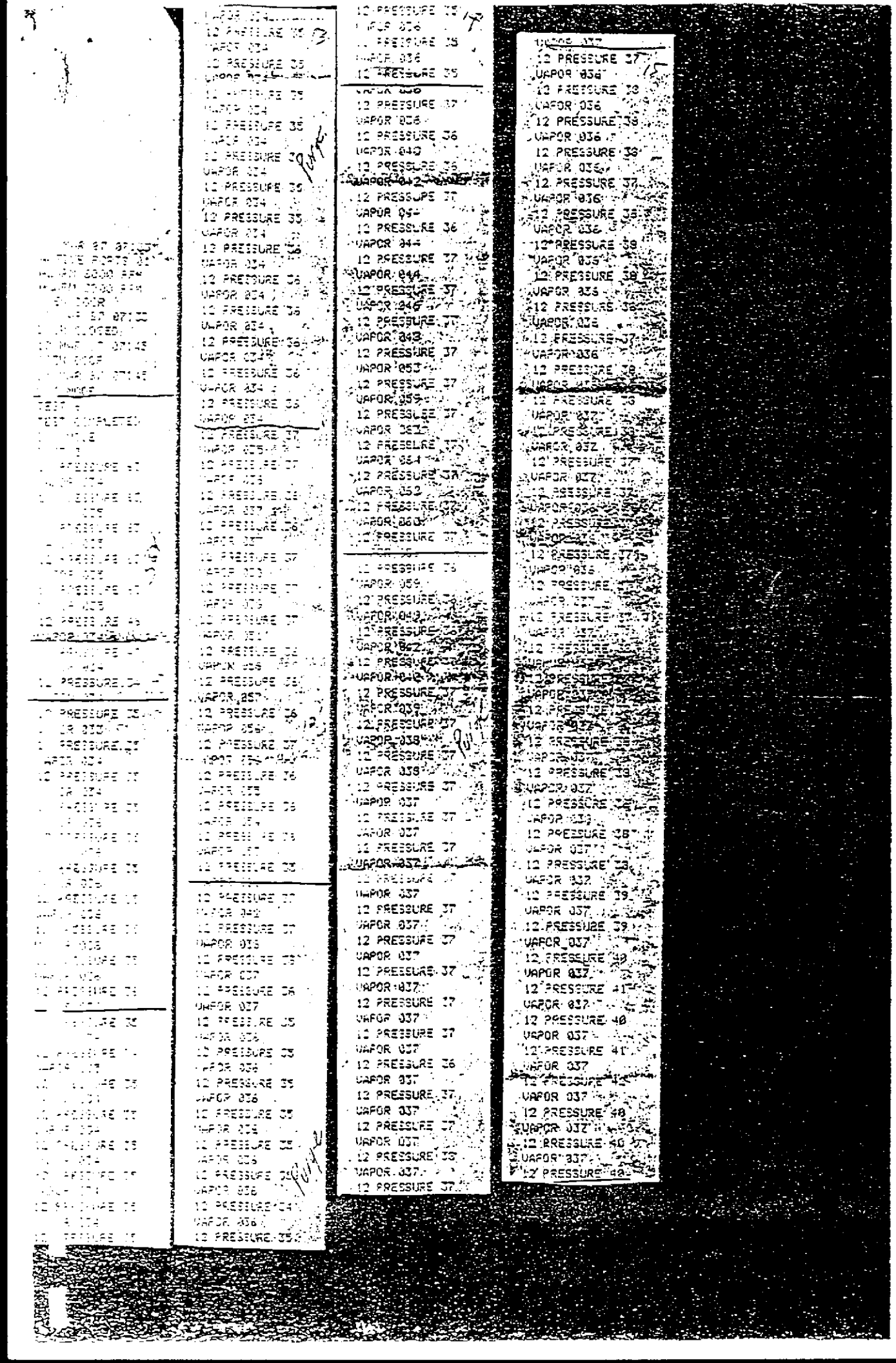
12 PRESSURE 47
VAPOR 039
12 PRESSURE 48
VAPOR 040
12 PRESSURE 42
VAPOR 039
TEST 3
SET MODE
17 MAR 97 11:21
ACTIVE PORTS-01
ALARM 5000 PPM
ALARM 2000 PPM

St # 3
3/17/97





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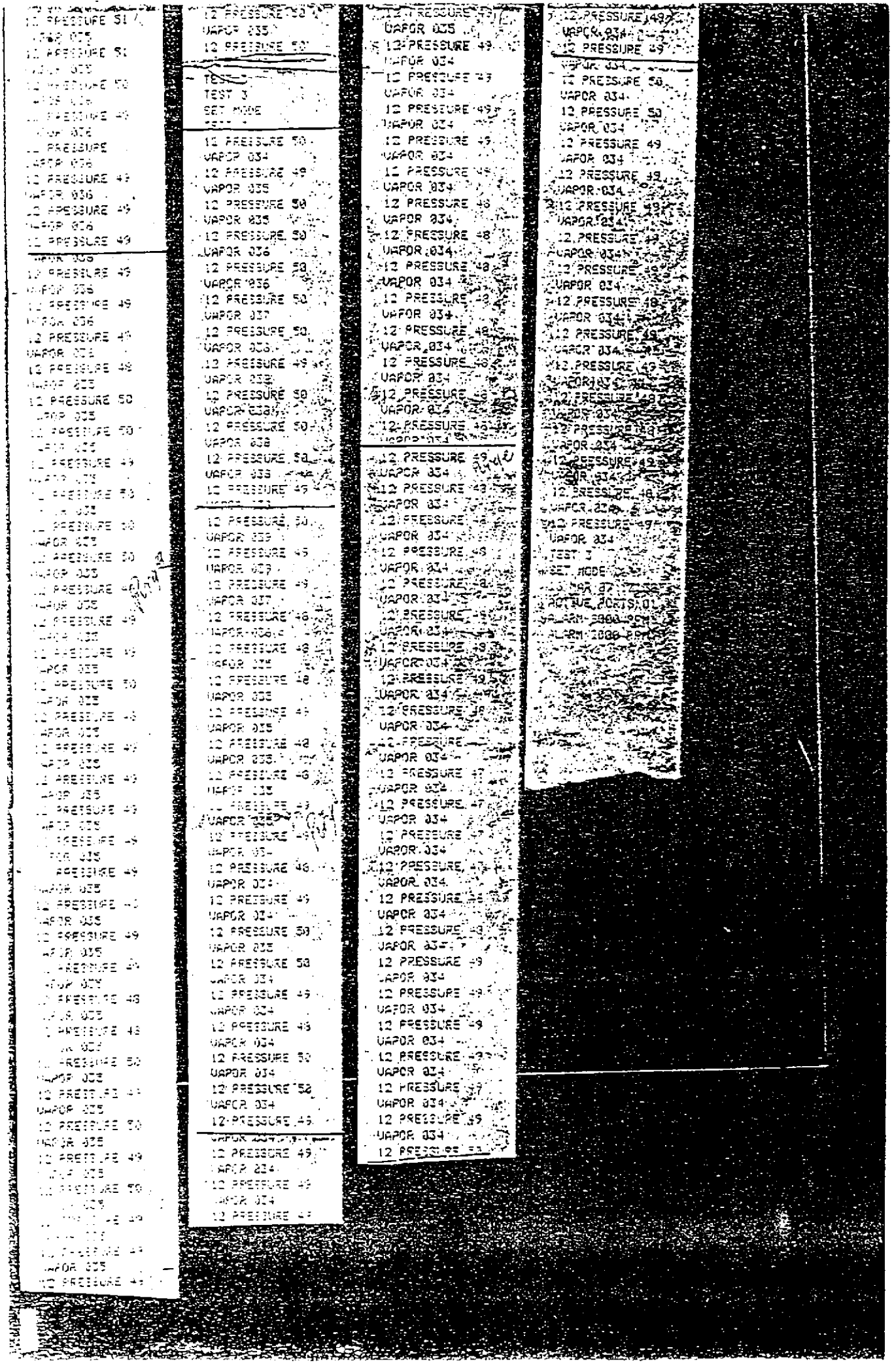

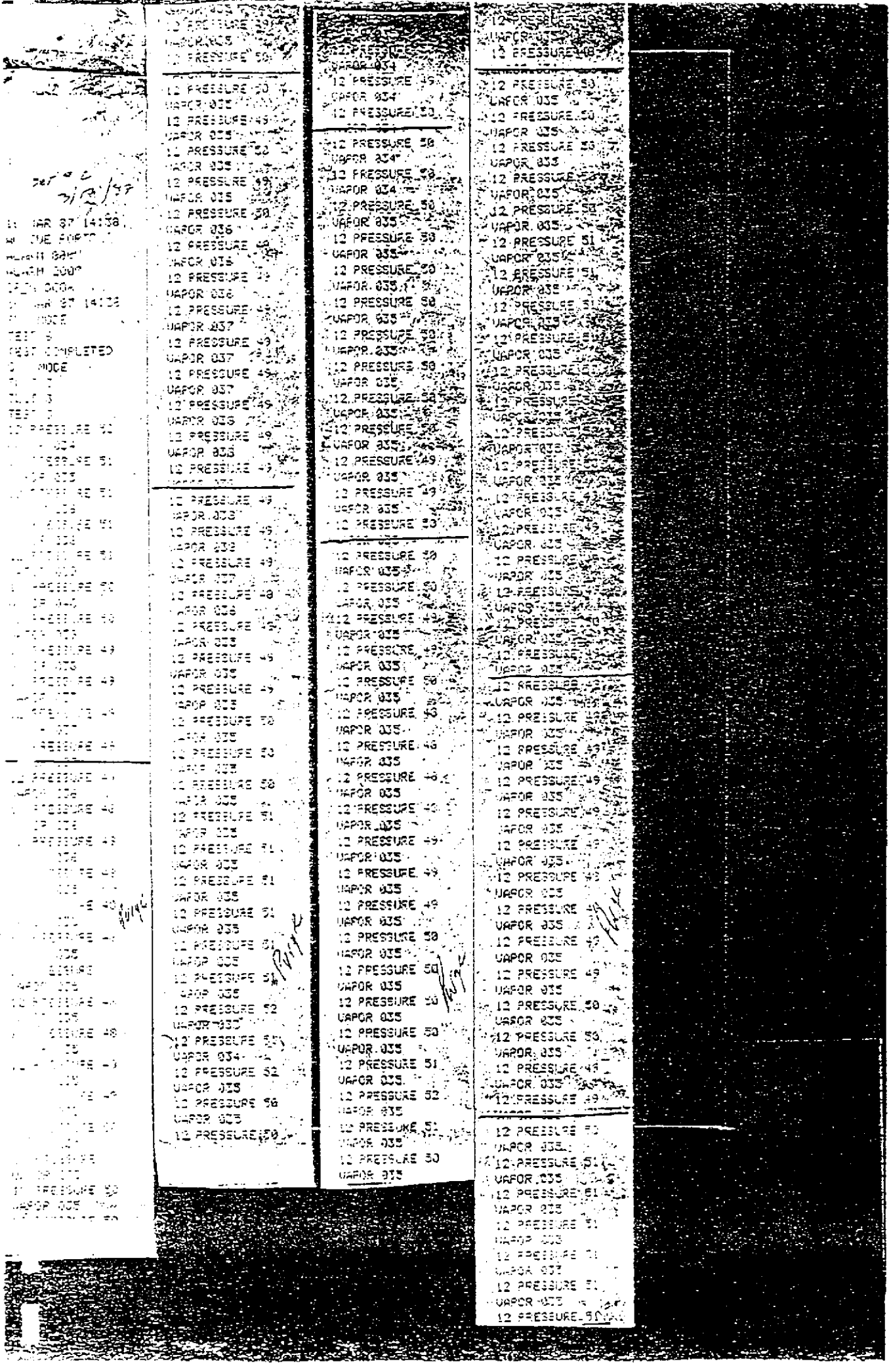

41

CHAIN OF CUSTODY AND SAMPLE IDENTIFICATION RECORD

ERM-West
Environmental
Resources
Management

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

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

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

Comments: [illegible]

Custody Record
Signature, Date/Time
Relinquished: Mark Bell 3/17/87
Received: Millie Keller 4pm
Relinquished:
Received:
Relinquished:
Received:
Relinquished:
Received:

Name and Address of
Receiving Laboratory
Central Coast Analytical

48

CHAIN OF CUSTODY AND SAMPLE IDENTIFICATION RECORD

ERM-West
Environmental
Resources
Management

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

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

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

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

Comments:

Custody Record
Signature, Date/Time
Relinquished:
Received:
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

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

Client: [illegible]
Sampler (s): [illegible]
Date: [illegible]
Weather: Sunny [illegible]

Job Location: Oakland, CA
Job No: 238
No. of Samples Collected: 4
page 1 of 1

Sample ID #	Time	Sample Type Water Comp.	Sample Type Water Grab	Sample Type Soil Comp.	Sample Type Soil Grab	Volume	No. of Contnrs. Contnr. Type	Preservative	Iced (Y/N)	Sampling Method	Analyses
B1	2:45		✓			40 ml	1 glass vial	none	Y	Bailer	8240p
B1	2:45		✓			40 ml	1 glass vial	none	Y	Bailer	8240p
B6	2:30		✓			40 ml	1 glass vial	none	Y	Bailer	8240p
B6	2:30		✓			40 ml	1 glass vial	none	Y	Bailer	8240p

Comments: 24 hour turnaround if possible if not, 48 hours

Custody Record
Signature, Date/Time
Relinquished: [illegible] 4/1/[illegible] 5pm
Received:
Relinquished:
Received:
Relinquished:
Received:
Relinquished:
Received:

Name and Address of Receiving Laboratory
Central Coast Analytical Services
141 Suburban Rd, CA 93401
(805) 543-2553

545

ERM-West
Environmental Resources Management

1777 Botelho Drive • Suite 260 • Walnut Creek, California 94596-5022 ☎ (415) 946-0455
4650 Campus Drive • Suite 170 • Newport Beach, California 92660-1805 ☎ (714) 852-9490
3965 Sunrise Boulevard • Suite 105 • Rancho Cordova, California 95670-6538 ☎ (916) 635-7765

Reply To:

April 30, 1987

Walnut Creek

K. M. RIES
MAY 1987
C.J. ENSENBERGER
MAY 0 1 1987

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

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.

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

STATE OF CALIFORNIA
GEORGE DEUKMEJIAN, Governor

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION
1111 JACKSON STREET, ROOM 6040
OAKLAND 94607

Phone: Area Code 415
464-1255

October 30, 1987
File No. 2198.09(mad)

John P. Hilinski
Grubb & Ellis Company
Industrial Properties Division
475 14th Street, Suite 1250
Oakland, CA 94612

Subject: Initial Environmental Site Assessment
for the proposed Greyhound Site
7th and Brush Streets
Oakland, Alameda County

Dear Mr. Hilinski,

We have reviewed the subject environmental assessment and we have the following comments. First, we suggest Greyhound Corporation look through files of both the Regional Water Quality Control Board and the Department of Health Services in order to see if the site has been identified as having any toxic contamination of soil or groundwater. We recommend that no new uses or activities preclude clean-up of any soil or groundwater contamination discovered at the site.

If you have any questions, you can reach me at 415-464-4399.

Sincerely,

Stephen A. Hill
Environmental Specialist III

APPENDIX E

Regional Water Quality Control Board North Bay Toxics Sites
Seventh Street and Brush Street, Oakland, California
(one-half mile radius)

SITE NAME	LOCATION	DISTANCE (feet)	GROUND-WATER IMPACT	GROUND-WATER GRADIENT
7th and Brush	7th and Brush	0	Yes	Unknown
City of Oakland - Redevelopment*	11th and Webster	2,600 E		
E-Z-est Products	2528 Adeline Street	5,300 N	No	Unknown
Frank G. Mar Community Housing Project	Harrison and 13th Streets	3,500 E	Yes	Southwest
Northwestern Venetian Blind Supply Company	1218 24th Street	5,200 N	Yes	Unknown
Oakland Redevelopment Agency*	1300 Clay Street	2,000 NE		
Oakland Redevelopment Agency	13th/14th/Jefferson and Martin Luther King Streets	1,750 NE	Yes	Unknown
PG&E Oakland MPG (2 sites)*	50 Market Street 630 Embarcadero	1,750 SE 1,400 S		
Port of Oakland - Howard Terminal*	Embarcadero	2,200 S		
Safety Kleen	404 Market Street	500 SSW	Yes	South
Schnitzer Steel Products	Adeline Street	2,200 SW	No	Unknown
Sherex Chemical Company	1401 Middle Harbor Road	4,200 SW	Yes	West
Vukasin/Southern Pacific Transport Company	54 Embarcadero and Fallon	4,800 SE	Yes	Southwest
Alameda Supply Center*	Alameda, California	4,200 S		

*File not available at time of file review.

APPENDIX F

California Environmental Protection Agency (Cal-EPA)
Department of Toxics Substance Control (DTSC)
North Coast Region Calsites

NAME	ADDRESS	STATUS
Adams Delivery Service	114 Bush St.	NFA
Allied Paper Company	283 4th St.	NFA
Alta Plating and Chemical Corp.	1732 Peralta St.	NFA
Architectural Ceramics	1940 Union St.	NFA
Badanic	1380 7th St.	NFA
Bay Area Oil Company	300 Castro St.	NFA
Bay Graphics	1337 17th St.	NFA
Bearing Service Inc.	52 9th	NFA
Bendell and Company	176 11th	NFA
Capitol Supply Company	351 Embarcadero	NFA
Cleo's Printing	1241 21st St.	NFA
Cutoff Company	2324 Adeline	NFA
Cutter Lumber Products	526 2nd St.	NFA
Don Cherry Scrap Metal	1448 3rd St.	NFA
Don Philbrick Boat Works	603 Embarcadero	NFA
E-Z-Est Products Company	2528 Adeline	NFA
East Bay Machine	333 9th St.	NFA
Fieldhome Inc.	499-N Embarcadero	NFA
Geltz Machinery Company	2015 Chestnut St.	NFA
Harry P. Robarts Company	1403 5th St.	NFA
Lakeside Non-Ferrous Metals Corp.	412 Madison St.	PEARM
Miners & Pisani	330 6th St.	NFA
Neptune Society	77 Jack London Square	NFA
Nor-Cal Metal Fabricators	1121 3rd St.	NFA
PG&E - Oakland	Market berween 1st and Grove St.	HRR
Polymeric Technology	2329 Chestnut St.	NFA
Red Star Yeast	1384 5th St.	NFA
Sherex Chemical Co. (Middle Harbor)	1401 Middle Harbor Rd.	PEARL
Skips Trucking Company	112 Adeline St.	NFA

NAME	ADDRESS	STATUS
Smilo Chemical Co.	500 Kirkham St.	NFA
Southern Pacific Transportation, Oakland	5th and Kirkham Streets	PEARM
Standard Chemical Company	236 2nd St.	NFA
Sunset Trading Company	568 3rd St.	NFA
Todd Die Company	95 Market St., G-5	NFA
West Transportation Inc.	95 Market St.	NFA
Whitey's Welding & Steel Fabrication	830 22nd St.	NFA
Work Wear Corporation	330 Chestnut St.	NFA
Art Weeks Inc.	1305 Franklin St.	NFA
Batte Resources International	1221 Broadway	NFA
C & G Dental X-Ray	1904 Franklin St., #802	NFA
Champion Company, The	610 16th St.	NFA
East Bay Blueprint Supply Company	1742 Franklin	NFA
Laxas Sewing Company	337 13th St.	NFA
Miller Photo Screen Service	2578 West St.	NFA
Oakland Graphics	864 14th St.	NFA

NFA - No Further Action by DTSC
PEARL - Preliminary Endangerment Assessment Required, Low Priority
PEARM - Preliminary Endangerment Assessment Required, Medium Priority
HRR - Hazard Ranking Required

APPENDIX G

California Environmental Protection Agency (Cal-EPA)
Department of Toxics Substance Control (DTSC)
Cortese Sites

FACILITY	ADDRESS
Greyhound	7th and Brush
City Auto Repair	330 Webster St.
City of Oakland	1417 Clay St.
Chinatown Redevelopment Proj.	11th and Webster
Bramalea Pacific	12th and Clay
Blue Print Service Company	1700 Jefferson
Alex Shaw and Associates	800 Franklin
Bramalea Pacific	13th and Jefferson St.
Shell	461 8th St.
Unknown	1111 Broadway
Texaco	424 Martin Luther King
Shell	7th and Broadway
City of Oakland Housing Authority	935 Union St.
Five City Center	1300 Clay St.
Pacific Renaissance Plaza	9th and Webster
East Bay Ford Truck	333 Filbert
Parking Structure	7th and Jefferson
Unknown	11th St.
Safety-Kleen Corp.	404 Market St.
Port of Oakland	Jack London Square
Sherex Chemical Company	1401 Middle Harbor Road
Aratex Services	330 Chestnut St.
P.E. O'Hare & Company	309 Fourth St.
Oakland Redevelopment Agency	1330 Martin Luther King Jr.
Sherex Chemical Company	1401 Middle Harbor Road
Oakland Community Development	690 15th St.
Oakland City Hall	1 City Hall Plaza

APPENDIX H

U.S. Environmental Protection Agency (Region IX)
Comprehensive Environmental Response Compensation and Liability System

EPA ID NO.	SITE NAME	ADDRESS
CAD000098806	Building H-232, Port of Oakland	845 Embarcadero
CAD009206160	Francis Plating of Oakland Inc.	785 7th St.
CAD009148669	NorCal Metal Fabricators	1121 3rd St.
CAD981415169	PG&E Gas Plant Oakland 601 2	1st between Jefferson and Market
CAD981416191	PG&E Gas Plant Oakland 601 2A	First and Washington
CAD990788168	Sherex Chemical Company	1401 Middle Harbor Rd.
CAD029247319	Smilo Chemical Company	500 Kirkham
CAD982401580	54 Embarcadero	Fallon St. and Embarcadero Dr.

APPENDIX I

U.S. Environmental Protection Agency (Region IX)
Resource Conservation and Recovery Act

NAME	ADDRESS	STATUS CODES
Aratex Services Inc.	330 Chestnut St.	LQG
BPS Oakland	1700 Jefferson	SQG
The Burke Co.	310 Union St.	LQG
Caltrans District 4	415 Harrison St.	LQG
Clorox	1221 Broadway	SQG
East Bay Fixture Co.	333 Filbert St.	LQG
Francis Plating Of Oakland	785 7th St.	TSD-N-
Guarantee Fork Lift Inc.	699 4th St.	LQG
Industrial Technology	114 Adeline St.	Trans -BBL-
Jam Graphics Inc.	175 Filbert St., Suite 103	SQG
MV California Star	1 Market St.	LQG
Nor-Cal Metal Fabricators	1121 3rd St.	SQG
Oakland City Hall	1 City Hall Plaza	LQG
Oakland Tribune Inc.	409 13th St.	SQG
PG&E Gas Load Center	50 Market St.	LQG
Safety Kleen Corp.	404 Market St.	TSD - LQG TRNS
Smilo Chemical Co. Inc.	500 Kirkham St.	LQG TRANS
Texaco Service Station	424 Martin Luther King Jr.	LQG

SQG - Small Quantity Generators
LQG - Large Quantity Generators
TRNS - Transporter
TSD - Treatment, Storage and Disposal Facility