

3315 Almaden Expressway, Suite 34 San Jose, CA 95118 Phone: (408) 264-7723 FAX: (408) 264-2435

## LIMITED RECORD SEARCH

at Exxon Station 7-3006 720 High Street Oakland, California

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3315 Almaden Expressway, Suite 34 San Jose, CA 95118 Phone: (408) 264-7723 FAX: (408) 264-2435

> March 24, 1993 0208MGUE 62034.02

Ms. Marla D. Guensler Exxon Company, U.S.A. 2300 Clayton Road, Suite 1250 P.O. Box 4032 Concord, California 94520

Subject:

Findings of the Limited Record Search for the Former Exxon Station 7-3006

Located at 720 High Street, Oakland, California.

Ms. Guensler:

As requested by Exxon Company, U.S.A. (Exxon), RESNA Industries, Inc. (RESNA) is presenting the results of a records search on the area surrounding Former Exxon Station 7-3006. This search was limited to available information from the files of the Alameda County Department of Environmental Health (ACDEH), the California Regional Water Quality Control Board (CRWQCB), and the City of Oakland Fire Department (OFD). RESNA's search focused on historical usage of the surrounding area and any previous environmental work performed in the vicinity of the site. Additionally, RESNA researched the files of Pacific Gas and Electric (PG&E), East Bay Municipal Utilities District (EBMUD), the City of Oakland Office of Public Works Engineering Division (COOPWED), and Pacific Bell (PacBell) for possible underground utility trenches that may act as conduits for groundwater flow.

The subject site is located at 720 High Street in a predominantly industrial area of Oakland, California. The site is bound on the northwest by High Street, on the southwest by Coliseum Way, on the northeast and southeast by a former dry-cleaning facility and auto



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wrecking yard (currently a lumber yard), and on the south by Alameda Avenue, as shown on Plate 1, Site Vicinity Map. The locations of borings, monitoring wells, and pertinent site features are shown on the Generalized Site Plan, (Plate 2). The locations of existing businesses are shown on the Areal Site Plan, (Plate 3).

Prior to this record search, RESNA (formerly Applied GeoSystems [AGS]) performed an environmental investigation related to the removal of four USTs in April 1987 (AGS, May 13, 1987, July 10, 1987, and October 16, 1989), and an environmental investigation between September 1987 and May 1988 that included drilling nine boreholes (B-1 through B-9) around the former UST locations and installing groundwater monitoring wells MW-1 through MW-9 in the boreholes (AGS, August 5, 1988). AGS performed a Supplemental Subsurface Investigation that included; drilling of eleven boreholes (B-10 through B-20) and installing groundwater monitoring wells MW-10 through MW-13 in boreholes B-10 through B-13 in November 1989 (AGS, January 30, 1990), and drilling of boreholes B-21 through B-32 and installing groundwater monitoring wells MW-14 and MW-15 in boreholes B-31 and B-32 in November 1990 (AGS, May 21, 1991). Quarterly monitoring was initiated by AGS in the second quarter of 1989 (AGS, October 16, 1989) and is ongoing. The locations of the borings, wells, and pertinent site facilities are shown on the Generalized Site Plan, (Plate 2). The results of these investigations are presented in the reports listed in the references section. A brief summary of these investigations is presented in Appendix A.

## **RECORDS REVIEW RESULTS**

## Regulatory Agencies Records Search

Federal, State, regional, and local regulatory agencies data were researched for known releases of hazardous materials to the environment to determine whether releases have occurred or been detected within a one-half mile radius of the property boundary. Appendix A contains lists of agencies contacted and specific databases reviewed, and provides types of databases and records used (see Toxicheck report, Appendix B). The local groundwater flow direction at the site has been previously interpreted to be toward the southwest (RESNA, November 1992). Therefore, upgradient properties, which have the



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potential to impact the subject site, are located north-northeast of the subject site. The results of the research are summarized below.

- A) No properties within a one-half mile radius of the site were listed on the Environmental Protection Agency (EPA) National Priority List (NPL) for Superfund sites.
- B) The following four properties are within a one-half mile radius of the site and were listed on the EPA's Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS database) inventory:
  - Avenue, is situated approximately 2,000 feet west-southwest of the subject site, in the topographically inferred crossgradient groundwater flow direction. This business is listed on the CRWQCB Underground Storage Tank Fuel Leaks List (CRWQCB, September 12, 1991) and is currently under investigation to assess the extent of further action. According to Ecology and Environment, Inc. (EEI), waste-oil was stored at the Bayside Oil Company property, and the extent of soil contamination has not been determined (EEI, September 1989);
  - The Clorox Company, located at 850 42nd Street, is situated approximately 700 feet north of the subject site, in the topographically inferred upgradient and crossgradient groundwater flow direction. The business is currently under investigation to assess the extent of further action. According to Ecology and Environment, Inc (EEI), the Clorox Company property contains soil and groundwater contaminated with mercury. Concentrations of mercury up to 9,600 parts per billion (ppb) have been detected in the groundwater (EEI, September 1989);
  - American National Can Company, located at 3801 East 8th Street, is situated approximately 1,000 feet northwest of the subject site, in the topographically inferred crossgradient groundwater flow direction. This business is listed in the CRWQCB Underground Storage Tank Fuel Leaks List (CRWQCB,



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September 12, 1991) and is currently under investigation to assess the extent of further action;

- 4) NL Industries Incorporated Pigments and Chemical Division, located at 4701 San Leandro Street, is situated approximately 1,000 feet east of the subject site, in the topographically inferred upgradient and crossgradient groundwater flow direction.
- C) The following seven properties are within a one-quarter mile radius of the subject site and were listed on the State of California Office of Planning and Research CORTESE list and on the State of California Leaking Underground Storage Tanks (LUST) list:
  - Ed's Auto Wreckers (also known as Hatton Properties), located at 752 High Street, is situated northeast of the subject site, in the topographically inferred upgradient groundwater flow direction. This business is listed in the CRWQCB Underground Storage Tank Fuel Leaks List (CRWQCB, September 12, 1991).
  - 2) Bayside Oil Company (also known as Eko-Tek Lube), located at 4200 Alameda Avenue (see property 1 listed under Section B above).
  - Shell Service Station, located at 630 High Street, is situated approximately 2,000 feet southwest of the subject site, in the topographically inferred downgradient groundwater flow direction. This business is listed in the CRWQCB Underground Storage Tank Fuel Leaks List (CRWQCB, September 12, 1991).
  - 4) Unknown (also known as Everett Stern Property), located at 1033 44th Avenue, is situated approximately 1,000 feet southeast of the subject site, in the topographically inferred crossgradient groundwater flow direction. This business is listed in the CRWQCB Underground Storage Tank Fuel Leaks List (CRWQCB, September 12, 1991).



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- 5) American National Can Company, located at 3801 East 8th Street (see property 3 listed under Section B above).
- Chevron Asphalt Terminal, located at 4525 San Leandro Avenue, is situated approximately 300 feet east-northeast of the subject site, in the topographically inferred crossgradient groundwater flow direction. This business is listed in the CRWQCB Underground Storage Tank Fuel Leaks List (CRWQCB, September 12, 1991);
- 7) Learner Company, located at 768 46th Avenue, is situated approximately 1,000 feet southeast of the subject site, in the topographically inferred crossgradient groundwater flow direction.

## HISTORY OF SITE AND ADJACENT PROPERTIES

RESNA researched prior uses of the subject site and vicinity by reviewing 1953 and 1969 aerial photographs (Pacific Aerial Surveys, 1953 and 1969) and fire-insurance maps (Sanborn Map Company, 1912, 1925, 1946). This research indicates the following chronology:

- Between 1912 and 1934, the southwestern part of the subject site and what is now Coliseum Way was occupied by Standard Oil Company and was used as an oilstorage and distribution facility. Plate 3 shows the approximate location of this facility with respect to the subject site. In 1912, there were five aboveground oilstorage tanks and a warehouse on the subject site. In 1925, there were six aboveground oil-storage tanks, a warehouse, and a loading area. There was no information on file with the CRWQCB or the OFD that would indicate what material was stored in these tanks. The northeastern part of the property was occupied by greenhouses in 1912, and by a carpentry shop in 1925.
- Between 1934 and 1970, two residences occupied the southwestern part of the site. Between 1953 and 1969, the northeastern part of the site was sold to Mr. and Mrs. Roy Hatton, who used the property as an automobile junkyard. The junkyard also



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included the adjacent property to the northeast. Plate 3 shows the approximate location of this facility with respect to the subject site.

The Exxon service station 7-3006 was built on the subject site in 1970.

In addition, RESNA researched other potential offsite sources of petroleum hydrocarbons and this information is summarized below:

Former Dry-Cleaning Plant, Former Auto Parts and Wrecking Yard, and Hatton Property: A building just northeast of the subject site was occupied by Bell Cleaning and Dyeing Co. in the 1920s (Sanborn Map Company, 1925). From about 1953 to 1969, the subject site and adjacent property and building were used as an automobile wrecking yard known as Ed's Auto Parts.

According to information obtained from the OFD, USTs on the Hatton property were permitted to be removed on April 4, 1989. A copy of the information obtained from the OFD is included in Appendix C. A description of the USTs, the reported contents of the tanks during the five years prior to 1989, and the material sampled from the tanks are as follows:

- three \$,000-gallon USTs were on the property. The USTs were filled with groundwater, and the material sampled for laboratory analysis was water;
- one 2,500-gallon UST was on the property. The material sampled for laboratory analysis was sludge; and,
- one 500-gallon UST was on the property. The material sampled for laboratory analysis was sludge.

There appears to be a discrepancy regarding the capacity of the USTs removed from the Hatton property. The following discrepancies exist (Appendix C):



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- According to a City of Oakland Permit to Excavate, Repair, or Remove Inflammable Liquid Tanks obtained from the OFD, four 4,000-gallon were permitted to be removed from the property.
- As previously stated above, according to a Alameda Health Care Services Agency Underground Tank Closure/Modification Plans obtained from the OFD, three 6,000-gallon, one 2,500-gallon, and one 500-gallon USTs were permitted to be removed from the property.
- According to a sketch obtained from the OFD, three 8,000-gallon, one 2,500-gallon, and one 500-gallon USTs existing on the property.
- O According to information obtained from a report prepared by the property owners' consultant, Earth Metrics, Inc. (Earth Metrics, September 1990), three 3,000-gallon USTs and one redwood UST were removed from the property.

According to the Earth Metrics, Inc. report, three 3,000-gallon USTs and a redwood tank of unknown size were removed from the Hatton property in April 1989. The three USTs were located adjacent to the northeastern property boundary of the subject site, and the redwood tank was further to the north of the USTs. The three USTs were used to store Stoddard Solution (a petroleum distillate) and the redwood UST was used to store solvent and sludge for use at the cleaning plant during the 1920s. Stoddard Solution is a high-boiling-point hydrocarbon that occurs within the diesel range of the chromatogram, has a specific gravity of 1.0, and is insoluble in water (Sax, 1984).

Based on field observations of a Jack Quarle and Associates geologist (original consultant and contractor for the property owner) at the time of the UST removal operations in April 1989, the three USTs were filled with groundwater and the bottoms were rusted out (Earth Metrics, September 1990). The total depths of the UST pits were approximately 9 to 19 feet. Copies of the Earth Metrics reports are included in Appendix D.



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According to the Earth Metrics report (Earth Metrics, September 1990), Jack Quarle and Associates removed the USTs, excavated the soil, and initially sampled the soil; however, they did not report whether the soil samples had been analyzed. Earth Metrics resampled the walls of the UST pits in August 1990. During resampling of the UST pits side walls, no hydrocarbon odor, obvious signs of soil discoloration, or sheen was noted in the soil from the UST pits. Analytical results of soil samples from the UST pits indicated TPHd concentrations ranging from nondetectable to 17 ppm. Earth Metrics also sampled stockpiled soil from the excavations (approximately 400 cubic yards), which had been aerated onsite by Jack Quarle and Associates. The stockpile soil samples contained 3.5 to 410 ppm TPHd.

Additionally, Earth Metrics obtained well data from a monitoring well located on the adjoining Exxon Station (the subject site). The information for monitoring well MW-9 was obtained from Applied GeoSystems (AGS) with the permission of Exxon (Earth Metrics, 1990). Well MW-9 was drilled by AGS directly downgradient and less than 15 feet from the UST pit (AGS, August 1988). The well was sampled for chemical analysis on April 20, 1990, and found to have nondetectable TPHg, BTEX, and TPHd. Analytical results of soil samples collected when the well was drilled indicated nondetectable TPHd or TPHg in the soil at a depth of 9 feet. Based on these analytical results, Earth Metrics concluded the groundwater had not been impacted by the contents of the USTs located on the Hatton property, and thus, no wells needed to be installed on the property (Earth Metrics, September 1990).

Former Foundry: Northeast of the former dry-cleaning plant was a former sheet-metal foundry owned by Southern Pacific Transit Company (see Plate 3). CRWQCB files contain an environmental assessment report that presents the findings of a subsurface investigation that included drilling 12 borings and installing three groundwater monitoring wells at the site (Ecology and Environment, Inc., September 5, 1989).

Analytical results of soil samples indicated concentrations greater than 1,000 ppm of total petroleum hydrocarbons (TPH) in near-surface soil samples. Low concentrations of some metals, polychlorinated biphenols (PCBs), and volatile



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organics were also detected in near-surface soil samples. Analytical results of groundwater samples indicated concentrations of TPH ranging from nondetectable to 1.5 ppm, total oil and grease (TOG) ranging from 1.4 to 2.8 ppm, and concentrations of PCBs ranging from nondetectable to 0.001 ppm.

- Southern Pacific Pipeline: According to a representative of Southern Pacific, there are two underground gasoline pipelines west of the site (AGS, January 1990). The pipelines run parallel to Alameda Avenue in an easement along a railroad spur owned by Southern Pacific Railroad. The exact location of the pipelines is unknown; Plate 3 shows their approximate location. No information regarding the environmental condition of the pipeline easement was found in the CRWQCB files.
- Norwalk Oil Sales Company. Four hundred feet to the east of the site is a former oil-distribution business owned by Norwalk Oil Sales Company, which operated between 1946 and 1970 (Sanborn Map Company, 1946; Pacific Aerial Surveys, 1969). Two aboveground gasoline tanks and an oil-storage warehouse were on the site. The site is now occupied by a building constructed in 1970; its use is unknown. No information regarding the condition of the property was found in the CRWQCB files.
  - Shell Service Station and Shell Oil Pipeline. Approximately 1,000 feet southwest of the site is a Shell Service Station. According to the underground-utility plans of the City of Oakland Public Works Department, a Shell Oil pipeline is adjacent to and northeast of the service station (Plate 3). The CRWQCB files contain the results of an environmental assessment at the service station, which indicated that after removal of the USTs and remodeling work, eight groundwater monitoring wells were installed on the site (Converse Environmental West, September 29, 1989). Analyses of soil samples from the borings detected less than 100 ppm TPHg and less than 50 ppm TPHd. Analyses of groundwater from the wells indicate dissolved TPHg concentrations up to 17 ppm and TPHd up to 7.2 ppm. The highest concentrations of gasoline and diesel hydrocarbons in both soil and groundwater are in the vicinity of the former UST pit.



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## UTILITY LINE REVIEW RESULTS

Municipal utility agencies were researched for possible underground utility trenches that may act as conduits for groundwater flow near the property boundary. The approximate locations of known utility lines are shown on Plate 4, P.G. & E. Subsurface Gas and Electrical Lines, Plate 5, East Bay Municipal Utilities District Potable Water Lines, Plate 6, City of Oakland Office of Public Works Sanitary Sewer Lines, and Plate 7, Pacific Bell Subsurface Communication Lines.

#### DISCUSSION

The following is a brief discussion of the previous work and findings of the records search:

- Soil samples from the southern boundary of the gasoline UST pit on the subject site property contained TPHd, and it is our understanding that Exxon has not stored diesel fuel on the subject site. Curvetly duril fully being soldy quant tenant
- The records review revealed that prior to Exxon ownership of the subject site, it was formerly occupied by an oil-storage and distribution facility owned by Standard Oil Company of California (currently known as Chevron U.S.A) between approximately 1912 and 1934. Up to six aboveground oil-storage tanks were onsite during that period. Between 1953 and 1969, the northeastern part of the site was part of an automobile wrecking yard.
- Several nearby properties were identified as potential sources of gasoline and diesel hydrocarbons. These include a former dry-cleaning plant and automobile wrecking yard (Ed's Auto Parts, also known as the Hatton property) to the northeast of the subject site; a former sheet-metal foundry owned by Southern Pacific Transit Company further to the northeast of the subject site; two gasoline pipelines owned by Southern Pacific to the southeast of the subject site; and a former oil-distribution business (Norwalk Oil Sales Company) to the east of the subject site.
- Samples of free-phase product collected from two monitoring wells (MW-3 and MW-8) at the subject site were analyzed using a fuel-fingerprinting technique. The results



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indicated that the free-phase product from well MW-3 is diesel fuel, and free-phase product from MW-8 is predominantly diesel fuel with some gasoline (AGS, January 30, 1990).

- RESNA previously reported that diesel hydrocarbons (TPHd) were present in soil samples collected at depths of 3 to 5 feet (23 ppm to 2570 ppm) in the southwestern, downgradient portion of the subject site (see Previous Work Section, Appendix A). RESNA also reported TPHd and TPHg in the vicinity of onsite monitoring well MW-14 (up to 0.64 ppm TPHd in groundwater samples) and onsite boring B-14 (3,400 ppm TPHg and 1,400 ppm TPHd in a soil sample from a depth of 10 feet), situated on the upgradient portion of the subject site, directly adjacent and downgradient of the former tank pit on the Ed's Auto Parts (Hatton) property. However, TPHg was not detected in onsite monitoring wells MW-10 and MW-11 (situated northwest of B-14 and MW-14) and in onsite well MW-9 (situated southeast of B-14 and MW-14). This suggests that a diesel hydrocarbon plume beneath the site is limited to the immediate vicinity of B-14 and MW-14 in the northeastern upgradient portion and in the southwestern downgradient portion of the site.
- RESNA previously reported that gasoline hydrocarbons (TPHg) were present in a soil sample collected from an unsaturated confining clay layer (837 ppm TPHg) at a depth of 18 feet, directly beneath the shallowest water bearing unit in the onsite boring drilled for MW-14 (see Previous work Section, Appendix A). However, TPHg was not detected in this boring in soil samples collected from the unsaturated soil above the water-bearing unit. Additionally, RESNA previously reported that TPHg were present in a soil sample collected from a possible capillary fringe or a water bearing unit (3,400 ppm TPHg) at a depth of 10 feet, in onsite boring B-14 (see Previous work Section, Appendix A). The presence of TPHg in the upgradient portion of the site in a lower confining layer, in the possible capillary fringe\water bearing unit, and the absence of TPHg in upper soils, suggests an offsite gasoline hydrocarbon source.



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### CONCLUSIONS

Based on the results of this record search and previous investigations at the subject site, RESNA concludes the following:

- Results of soil sampling at the adjacent Ed's Auto Parts (Hatton property) suggests that USTs on that property appear to have released high-boiling-point hydrocarbons used for dry cleaning (Stoddard Solution).
- Because diesel hydrocarbons (TPHd) have been detected in groundwater beneath the upgradient portion (in well MW-14) of the subject site, it appears that a diesel hydrocarbon plume exists that may have migrated from an offsite source. A potential upgradient diesel hydrocarbon and Stoddard Solution source appears to be Ed's Auto Parts (Hatton) property.
- Because TPHd have been detected in soil in the downgradient portion (in boring B-3) of the subject site, it appears that the diesel hydrocarbons may have come from a previous onsite source. Potential diesel hydrocarbon sources at the subject site (previous to occupation by Exxon) include the former Standard Oil Company storage facility and the Ed's Auto Parts (Hatton) property.
- Because the onsite upgradient portion of the diesel plume appears to be limited to the vicinity of the northeastern portion of the site (in the vicinity of well MW-14 and boring B-14) and gasoline hydrocarbons (TPHg) were detected only in an unsaturated confining clay layer beneath the shallowest water-bearing zone in the northeastern portion of the site (in the vicinity of well MW-14) and in the possible capillary fringe/water bearing unit in boring B-14, it appears that petroleum hydrocarbons may have migrated from the former tank pit on the adjoining Ed's Auto Parts (Hatton) property.



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If you have any questions or comments regarding this records search, please call us at or (408) 264-7723.

Sincerely,

RESNA Industries Inc.

Mare A Briggs

Marc A. Briggs

Project Geologist

GEOLOG! JAMES LEWIS NELSON

TERED

ENGINEERING

James L. Nelson C.E.G. No. 1463

Enclosures:

References

Aerial Photograph References

Plate 1, Site Vicinity Map

Plate 2, Generalized Site Plan

Plate 3, P.G. & E. Subsurface Gas and Electrical Lines

Plate 4, East Bay Municipal Utilities District Potable Water Lines

Plate 5, City of Oakland Office of Public Works Sanitary Sewer Lines

Plate 6, Pacific Bell Subsurface Communication Lines

Appendix A: Previous Environmental Work Performed at Former Exxon 3006

Appendix B: Toxicheck Haz-Search Report

Appendix C: Information Obtained from the City of Oakland Fire Department

Appendix D: Reports from Earth Metrics



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#### REFERENCES

- Applied GeoSystems. May 13, 1987. <u>Letter Report for First Phase Soil Contamination Investigation</u>, Exxon Station No. 7-3006, Oakland, California. Job No. 87042-1.
- Applied GeoSystems. July 10, 1987. Report of Excavation, Aeration, and Removal of Contaminated Soil Including Soil Sampling and Analyses, Exxon Station No. 7-3006, Oakland, California. Job No. 87042-2.
- Applied GeoSystems. August 5, 1988. Report of Subsurface Environmental Investigation. Exxon Station No. 7-3006, Oakland, California. Job No. 87042-5.
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- Applied GeoSystems. October 16, 1989. Report on Subsurface Environmental Investigation, Exxon Station No. 7-3006, 720 High Street, Oakland, California. Job No. 87042-6.
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- Applied GeoSystems. January 30, 1991. <u>Letter Report on Ground-Water Monitoring for Fourth Quarter 1990</u>, Exxon Station No. 7-3006, 720 High Street, Oakland, California. Job No. 87042-9.
- Applied GeoSystems. May 21, 1991. Report on Supplemental Subsurface Environmental Investigation, Exxon Station No. 7-3006, 720 High Street, Oakland, California. Job No. 87042-9R.
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- Converse Environmental West. September 29, 1989. <u>Quarterly Report of Activities for Quarter 3, 1989, Shell Oil Company, 630 High Street, Oakland, California.</u> San Francisco, California.



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- Earth Metrics Incorporated. February 6, 1990. <u>Biodegradation of Hydrocarbon</u>

  <u>Contaminated Soil with Limited Soil Sampling and Limited Soil Chemistry Analysis,</u>

  <u>Ed's Auto Parts, 752 High Street, Oakland, California.</u>
- Earth Metrics Incorporated. September 4, 1990. <u>Tank Removal and Limited Soils</u> Chemistry Analysis, Ed's Auto Parts, 752 High Street, Oakland, California.
- Ecology and Environment, Inc. September 5, 1989. <u>Environmental Assessment, Southern Pacific Transportation Company, 744 High Street, Oakland, California.</u> San Francisco, California.
- RESNA Industries, Inc. November 9, 1992. <u>Letter Report on Groundwater Monitoring for Third Quarter 1992, Exxon Station No. 7-3006, 720 High Street, Oakland, California</u>. Job No. 87042-11.
- RESNA Industries, Inc. June 15, 1992. <u>Letter Report on Groundwater Monitoring for First Ouarter 1992, Exxon Station No. 7-3006, 720 High Street, Oakland, California</u>. Job No. 87042-11.
- RESNA Industries, Inc. October 21, 1992. <u>Letter Report on Groundwater Monitoring for Second Quarter 1992, Exxon Station No. 7-3006, 720 High Street, Oakland, California</u>. Job No. 87042-11.
- RESNA Industries, Inc. November 9, 1992. <u>Letter Report on Groundwater Monitoring for Third Quarter 1992, Exxon Station No. 7-3006, 720 High Street, Oakland, California</u>. Job No. 87042-11.
- Sanborn Map Company. 1912. Fire Insurance Map of Oakland, California. Pelham, New York. Reproduced on microfilm by Chadwyck-Healey, Inc., Teaneck, New Jersey.
- Sanborn Map Company. 1925. Fire Insurance Map of Oakland, California. Pelham, New York. Reproduced on microfilm by Chadwyck-Healey, Inc., Teaneck, New Jersey.
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Toxicheck. <u>Haz-Search Report for Exxon Station No. 7-3006, 720 High Street, Oakland,</u> California. 1992.

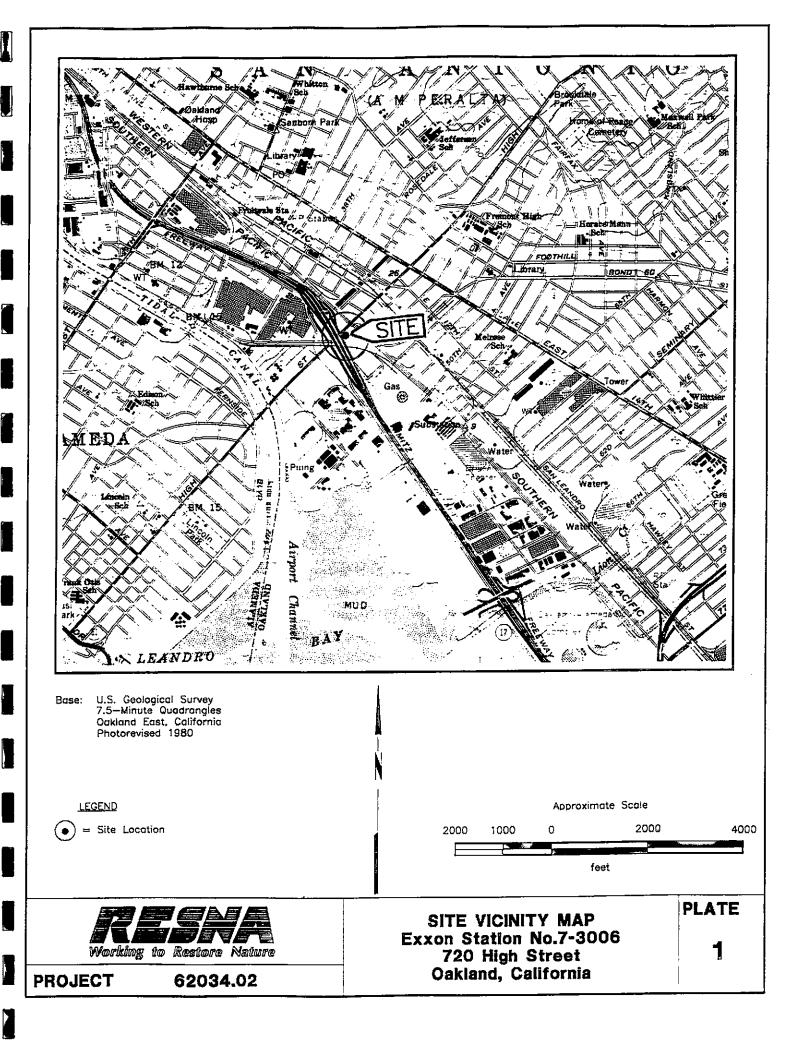


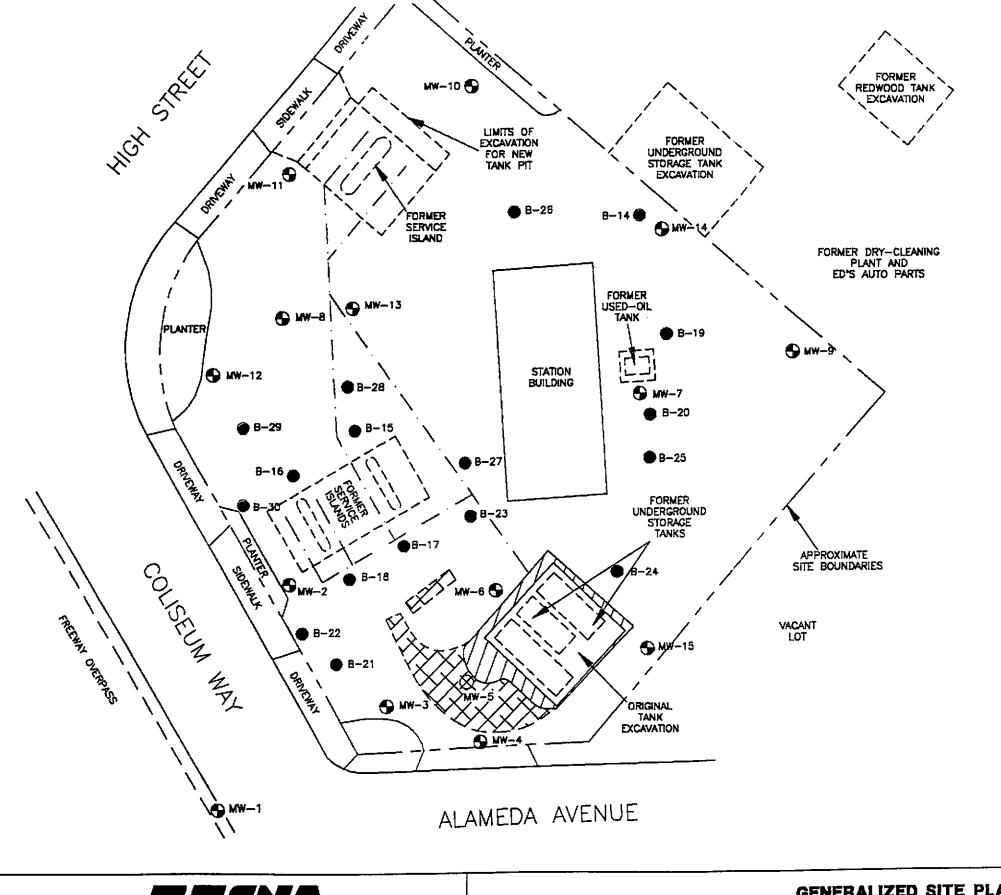
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## **AERIAL PHOTOGRAPHS REFERENCES**

Pacific Aerial Surveys. 1953. Aerial Photo No. AV119-13-26.

Pacific Aerial Surveys. 1969. Aerial Photo No. AU902-6-26.





#### EXPLANATION

MW-15 = Monitoring well

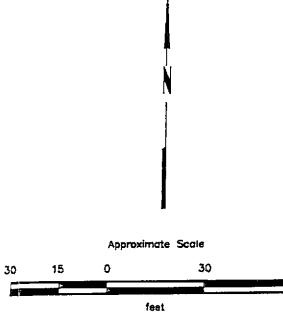
W−5 = Monitoring well (destroyed) (RESNA)

B-30 = Soil boring (RESNA)

- Area excavated (1987)

= Area excavated (RESNA, 1989)

---- = Product piping trenches



Source: Modified from plan supplied by Exxon Company, USA

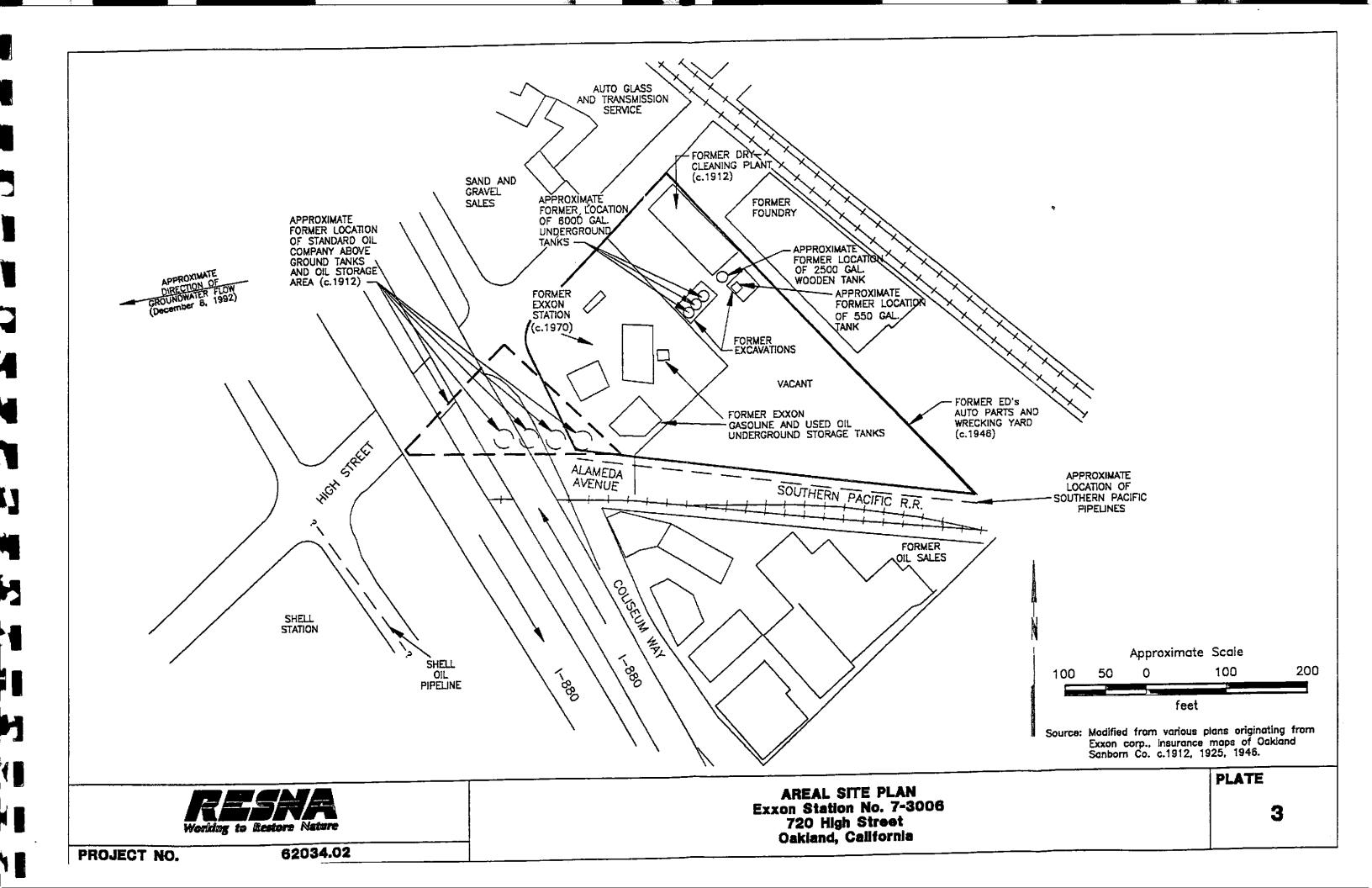
Working to Restore Nature

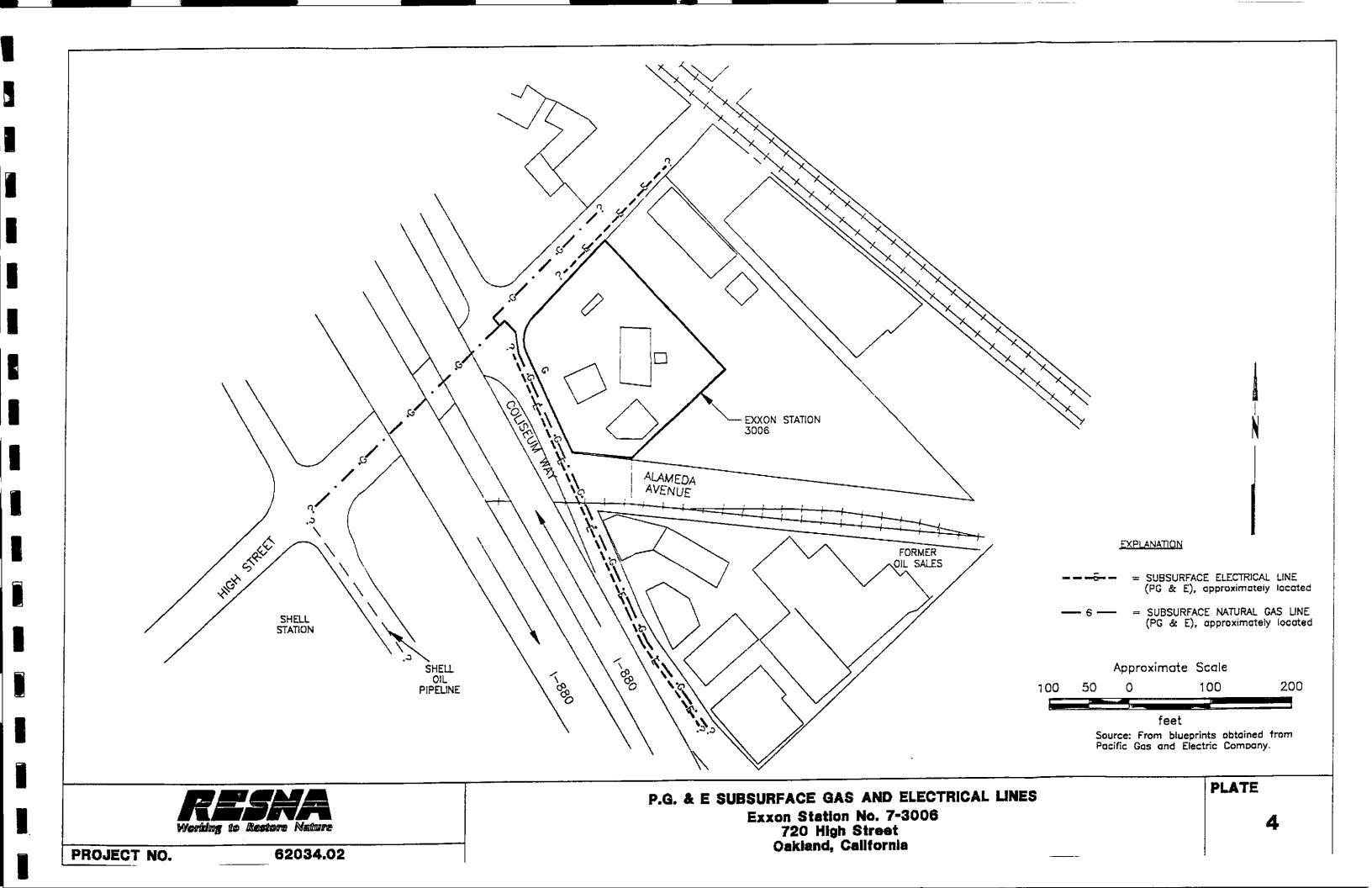
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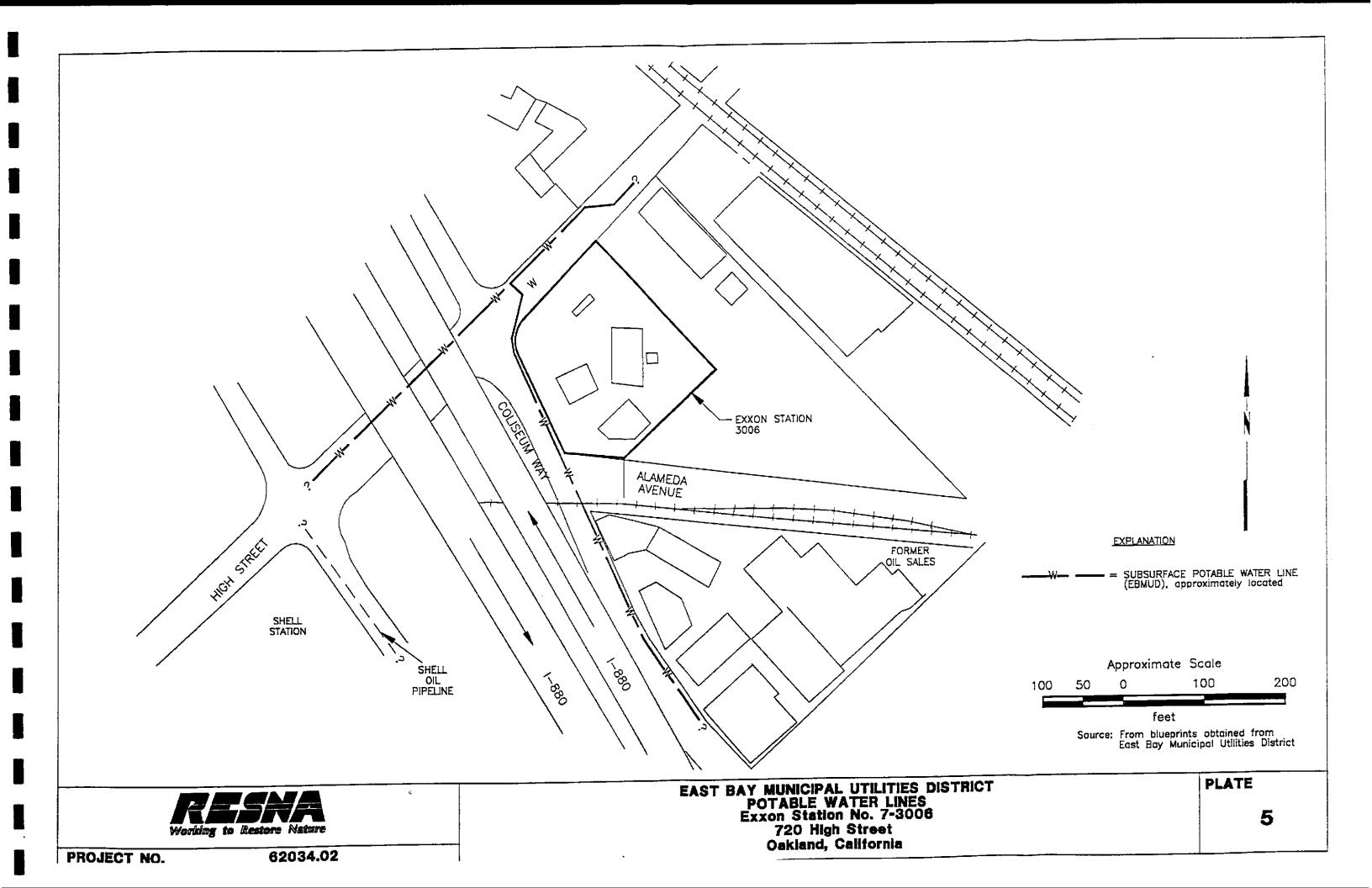
GENERALIZED SITE PLAN Exxon Station 7-3006 720 High Street Oakland, California **PLATE** 

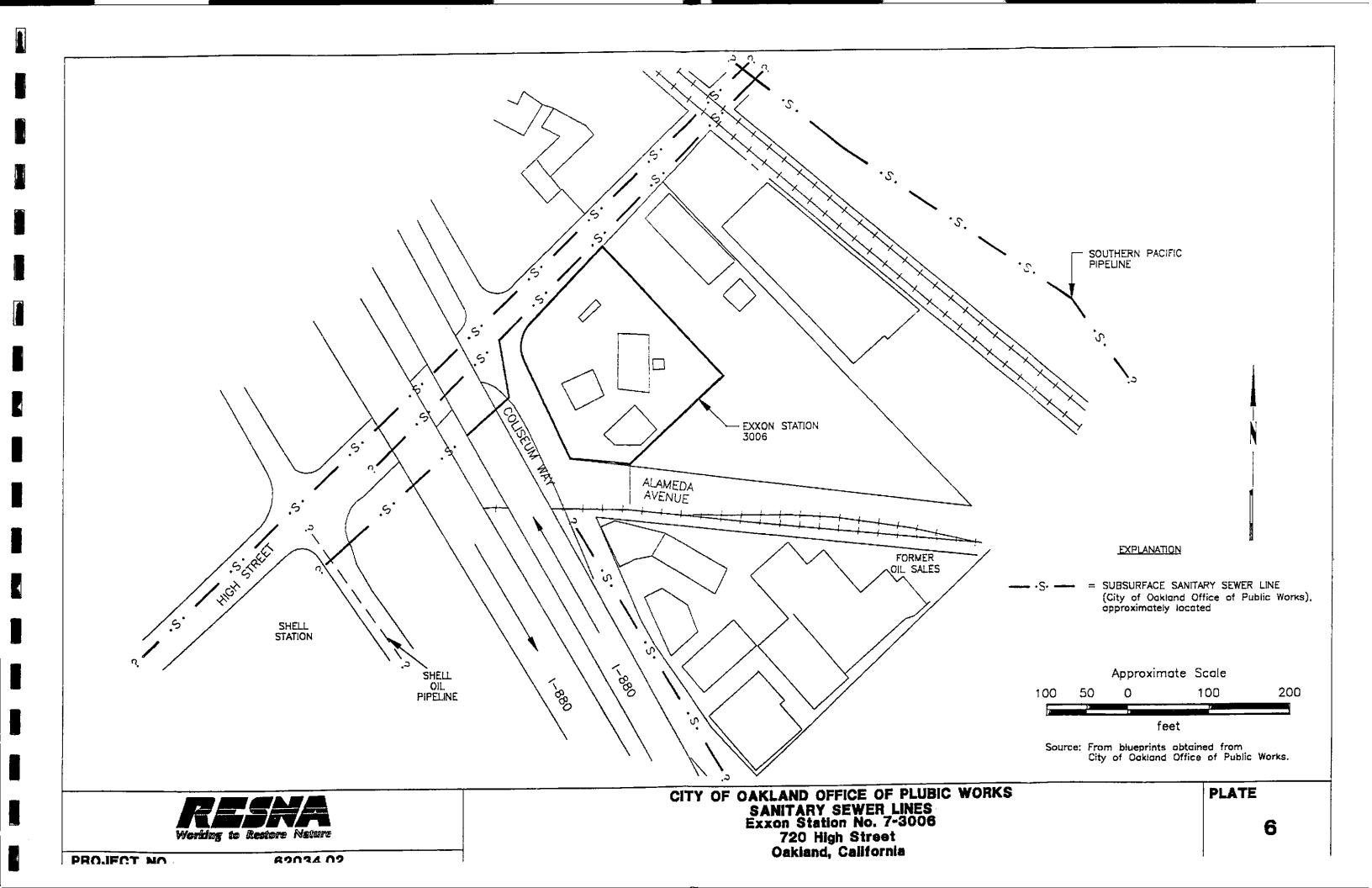
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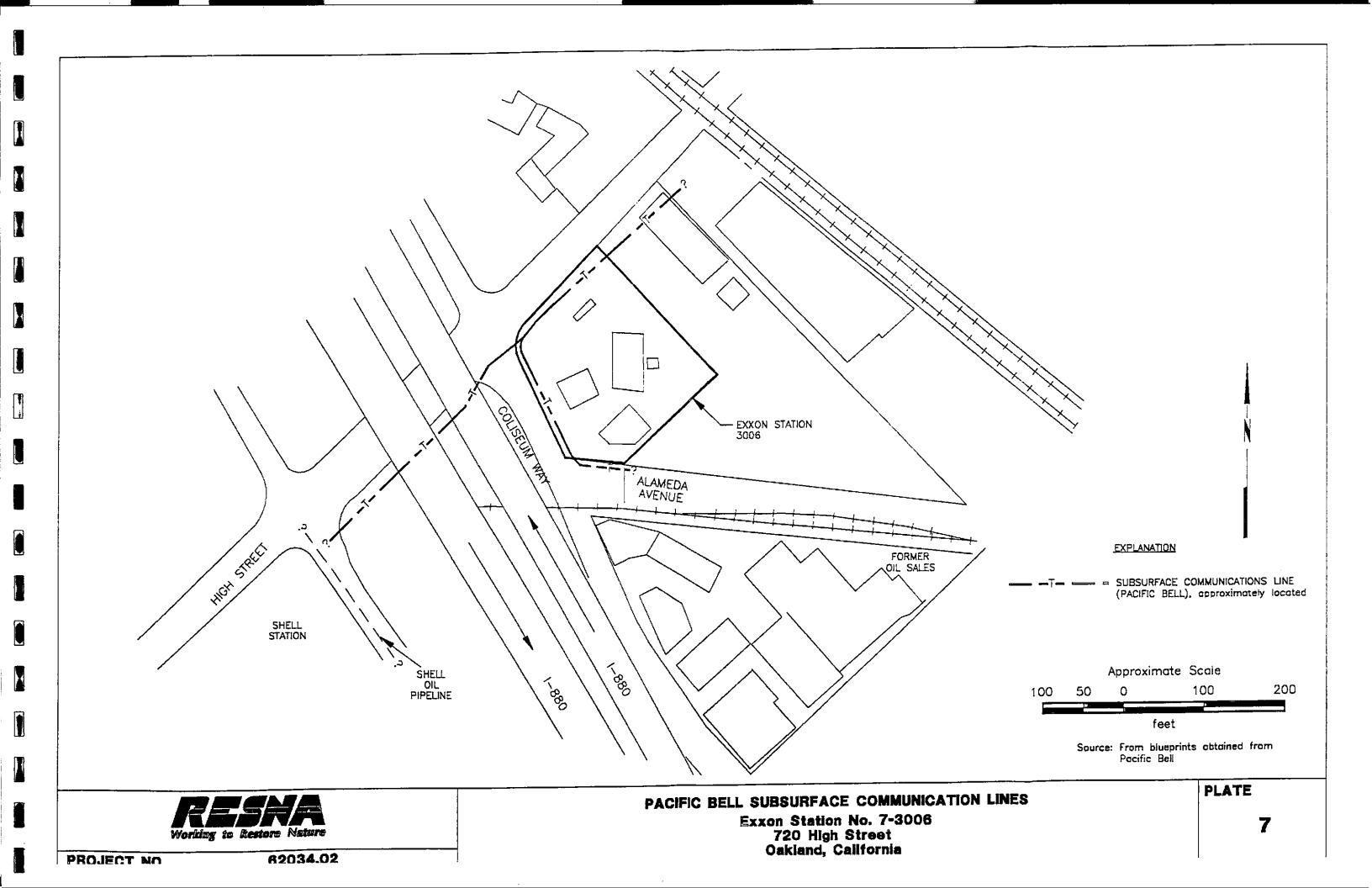
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## APPENDIX A

PREVIOUS ENVIRONMENTAL WORK PERFORMED AT FORMER EXXON 7-3006



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## PREVIOUS ENVIRONMENTAL WORK PERFORMED AT FORMER EXXON 7-3006

## Excavation of USTs -1987

In April 1987, four USTs (6,000-, 10,000-, 8,000-, and 1000-gallons) that stored extraunleaded, regular unleaded, regular leaded gasoline, and used-oil, respectively, were removed by Exxon's contractor. The gasoline USTs were located in the southeast corner of the site and the used-oil tank was located behind the station building. Soil samples collected after tank removal indicated the presence of total volatile hydrocarbons in concentrations greater than 1,000 parts per million (ppm) in the gasoline UST pit (AGS Report No. 87042-1, May 13, 1987). A sample collected from soil excavated from the wasteoil UST pit contained no detectable total extractable hydrocarbons (TEH).

Removal of the product piping lead to the exposure of a black soil layer in the trenches that appeared to contain relatively high hydrocarbon concentrations. The layer was sampled and laboratory results indicated the presence of 434 ppm of TEH.

## Initial Soil Excavation - 1987

In May, 1987, AGS observed the over-excavation of the gasoline UST pit and product line trenches. A black soil lens that appeared to contain hydrocarbons was noticed at approximately 14 feet below the ground surface in the southwestern wall of the pit, and free-phase product was later observed seeping into the pit from this lens. The excavation indicated that this lens became larger southwest of the tank pit (AGS Report No. 87042-2, July 10, 1987).

## Soil Vapor Survey - 1987

In June 1987, Exxon contracted with EA Engineering, Science, and Technology, Inc., of Lafayette, California, to perform a soil-vapor survey. The results of the survey indicated that the highest hydrocarbon-vapor concentrations were between the former gasoline UST pit and the southern pump islands, and extended southwest towards Coliseum Way.

## Initial Site Investigation - 1987 to 1988

In September 1987 and May 1988, nine groundwater monitoring wells, MW-1 through MW-9 were installed. The wells were installed to evaluate the impact of hydrocarbons on groundwater. Soil samples from the borings for wells MW-1 through MW-9 contained up



March 24, 1993 62034.02

to 2,689 ppm of total petroleum hydrocarbons as gasoline (TPHg) and up to 4,261 ppm of total petroleum hydrocarbons as diesel (TPHd). Soon after the wells were installed, free-phase product was measured in wells MW-2, MW-4, and MW-5 in the area of the former gasoline USTs and in well MW-8 in the former area of the former product piping (AGS Report No. 87042-5, August 5, 1988).

## Additional Soil Excavation - 1989

In May 1989, Exxon contracted with AGS to excavate additional soil from the southern part of the existing gasoline UST pit (AGS Report No. 87042-6, October 16, 1989). On July 1989, well MW-5 was properly destroyed to start excavating the southern boundary of the gasoline pit to a maximum depth of about 10 feet (just above the ground-water level). Soil with debris (bricks, lumber, etc.) was found in the southern part of the pit, and soil in this area contained the most evidence of hydrocarbons. In addition, two metal pipes were exposed in the southern wall of the excavation that appeared to be former product lines. The pipes appeared to run west toward Coliseum Way. Soil was excavated from the southern and southwestern sides of the pit as far towards Coliseum Way as possible.

On the northwestern side of the pit, two exploratory trenches were excavated to evaluate the extent of hydrocarbons while minimizing the volume of excavated soil. Moderate organic vapor meter (OVM) readings (200 to 500 ppm) were taken from the soil along both trenches. Four samples from the trenches and southern walls of the excavation were collected from just above the groundwater (9 feet below grade). The laboratory results showed 3.8 to 290 ppm TPHg. One sample from 9 feet below grade in the southern part of the pit was analyzed for TPHd and contained 4,200 ppm.

An estimated 300 cubic yards of soil were excavated and stockpiled on the site. Analytical results of six composite samples showed 63 to 330 ppm TPHg and 250 to 3,800 ppm TPHd. Exxon subsequently arranged to have the soil hauled to an appropriate disposal facility.

## Additional Site Investigation - 1989

To delineate the extent of diesel and gasoline in the soil and groundwater, AGS drilled 11 borings and installed four additional groundwater monitoring wells (MW-10 through MW-13) in November 1989. In soil analyzed from the borings, the highest concentrations of TPHd (up to 4,000 ppm) were found in the southwestern part of the site, and the highest concentrations of TPHg (3,400 ppm) were found adjacent to the excavation at Ed's Auto Parts, which is adjacent to the northeastern property line of the Exxon site (AGS Report 87042-6R, January 30, 1990).



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## Additional Site Investigation - 1990

Based on the results of previous investigations, AGS drilled 12 shallow soil borings and two deeper borings in which monitoring wells were installed. The soil borings (B-21 through B-30) were drilled to delineate the extent of diesel and gasoline hydrocarbons in the subsurface soil. Concentrations of TPHg in the collected soil samples ranged from nondetectable to 3,232 ppm; TPHd concentrations ranged from nondetectable to 2,115 ppm. Monitoring well MW-14 was installed adjacent to the excavation at Ed's Auto Parts to evaluate offsite sources of hydrocarbons. Well MW-15 was installed east of the location of the former USTs to delineate hydrocarbons in the groundwater. Low concentrations of TPHg, TPHd, and BTEX were detected in MW-14 and MW-15 (AGS Report No. 87042-9R, May 21, 1991).

# APPENDIX B TOXICHECK HAZ-SEARCH REPORT

## HAZ-SEARCH<sup>TM</sup> REPORT

# Toxicheck/

A Service of Environmental Data Resources

The Source For Environmental Risk Management Data



3530 Boston Post Road Southport, Connecticut 06490 FAX 255-1976

Nationwide Customer Service 1(800) 352-0050

FORMER EXXON STATION 7-3006 720 HIGH STREET

OAKLAND, CA 94601

Latitude: 37.7685 Longitude: 122.2185

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- WHAT IS A HAZ-SEARCH REPORT
- 2. NEDIS FEDERAL AND STATE RECORDS SEARCHED
- 3. HAZ-SEARCH REPORT SUMMARY
- 4. HAZ-SEARCH REPORT FINDINGS

### DISCLAIMER

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User agrees that the terms and conditions set forth above are made part of user's purchase order and are in lieu of all inconsistent terms and conditions, expressed or implied, in such purchase order and any renewal thereof.

IF YOU HAVE ANY QUESTIONS OR COMMENTS, CALL EDR/TOXICHECK AT 1-800-352-0050.

## 1. What is the HAZ-SEARCH<sup>TM</sup> Report?

The HAZ-SEARCH<sup>™</sup> Report is a radius search report which focuses on both a target property and adjoining or nearby sites which may impact the target property. The search distance for specific government records varies according to the requirements of the draft ASTM Standard, and/or client specifications.

The HAZ-SEARCH™ Report contains four sections:

SECTION 1 and SECTION 2: What is the HAZ-SEARCH<sup>TM</sup> Report, and Description of Government Records Searched (and the dates of these records) are self explanatory.

**SECTION 3:** The Summary provides a quick overview of the findings within the specified search distances.

**SECTION 4:** The Detailed Radius Search contains identified information on the target property and sites surrounding the target property (in order of proximity) including, where possible, distance and direction from the target property.

A note about geocoding accuracy: Each site identified in the radius search has been assigned a geocoding accuracy flag. This flag reflects the accuracy to which a particular site can be assigned a latitude and longitude based upon its specified address in the government record. The flags used include: EDR Verified, Block Face, Block Group and Orphan. The latter refers to sites where a latitude/longitude cannot be assigned.

EDR Verified and Block Face have the highest level of accuracy, i.e., within approximately +/-250 feet of the true geographic location at 99% and 95% confidence levels, respectively.

Block Group accuracy is approximately +/- 3,700 feet with a 90% confidence level in an urban area. Outside an urban area, the variance will be even greater. Due to this higher variance, EDR has included Block Group sites in a separate section, without reference to the direction from the target property. The distance searched for Block Group-designated sites is 1 mile plus the maximum variance, i.e., 1.7 miles total. Hence, sites outside the specified search radius may be listed in this group.

Sites with incomplete addresses in the government records are included in EDR's Orphan Lists. If the zip code of an orphan site can be ascertained and it is in the same zip code as the target property, the orphan site is included in EDR's Orphan List - Zip Code. If the zip code cannot be ascertained, but the city and/or county is the same as that of the target property, then the orphan list is included in EDR's Orphan List - Other.

Only EDR verified and Block Face-designated sites meet EDR's stringent quality criteria for assigning a distance and direction from the target property.

#### 2. NEDIS FEDERAL AND STATE RECORDS SEARCHED

#### NPL National Priorities List (Superfund)

The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. Sites are added from the CERCLIS list according to a hazard ranking system which seeks to identify high priority sites. To maintain currency, EDR contacts the agency on a quarterly basis.

Date of Government Version in NEDIS: 02/15/92 Date of Last EDR Contact with Government: 10/20/92

CERCLIS Comprehensive Environmental Response, Compensation and Liability Information System

CERCLIS contains information on over 34,000 sites identified by EPA as abandoned, inactive or uncontrolled hazardous waste sites which may require cleanup. To maintain currency, EDR contacts the agency on a monthly basis.

Date of Government Version in NEDIS: 05/15/92 Date of Last EDR Contact with Government: 10/13/92

RCRA/HWDMS RCRA Hazardous Waste Data Management System

RECRIS Resource Conservation and Recovery Information System

RCRA/HWDMS includes selective information on over 324,000 sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Records available in HWDMS will eventually be transferred to the RCRIS database. To maintain currency, EDR contacts the agency on a quarterly basis.

Date of Government Version in NEDIS: 04/19/91 Date of Last EDR Contact with Government: 08/27/92

#### SHWS State Hazardous Waste Sites

State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of NPL) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state. To maintain currency, EDR contacts the agency on a quarterly basis.

Date of Government Version in NEDIS: N/A
Date of Last EDR Contact with Government: N/A

#### SWF/LS Solid Waste Facilities/Landfill Sites

SWF/LS type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps (that failed to meet RCRA Section 2004 criteria for solid waste landfills or disposal sites). To maintain currency, EDR contacts the agency on a quarterly basis.

Date of Government Version in NEDIS: 01/06/92 Date of Last EDR Contact with Government: 09/14/92

#### <u>LUST</u> Leaking Underground Storage Tank Incident Reports

LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state. To maintain currency, EDR contacts the agency on a quarterly basis.

Date of Government Version in NEDIS: 01/15/92 Date of Last EDR Contact with Government: 09/21/92

#### ERNS Emergency Response Notification System

ERNS contains over 25,000 spill records and stores information on reported releases of oil and hazardous substances. The data are collected from spills reported to EPA and the Coast Guard (National Response Center). To maintain currency, EDR contacts the agency on a quarterly basis.

Date of Government Version in NEDIS: 10/09/91
Date of Last EDR Contact with Government: 10/05/92

#### HMIRS Hazardous Materials Incident Report System

HMIRS contains hazardous material spill incidents reported to the Department of Transportation. These spill incidents are not necessarily listed in ERNS. To maintain currency, EDR contacts the agency on a quarterly basis.

Date of Government Version in NEDIS: 12/15/91
Date of Last EDR Contact with Government: 11/06/92

#### TRIS Toxic Release Inventory System

TRIS includes all facilities which use toxic chemicals in reportable quantities under SARA (Superfund Amendments and Reauthorization Act of 1986), Title III, Section 313 and their releases of such chemicals to the air, water and land. Reporting covers approximately 20,000 sites and is required (Form R) each July 1st for the previous year. To maintain currency, EDR contacts the agency on a quarterly basis.

Date of Government Version in NEDIS: 12/31/89
Date of Last EDR Contact with Government: 10/05/92

#### UST Registered Underground Storage Tanks

USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Information in NEDIS varies by state program. To maintain currency, EDR contacts the agency on a quarterly basis.

Date of Government Version in NEDIS: 10/15/90 Date of Last EDR Contact with Government: 10/23/92

#### PADS PCB Activity Database

EPA regulates under TSCA the storage and disposal of PCBs. Those who handle PCBs (generators, transporters, commercial storers and/or brokers and disposers) are required to notify EPA of their PCB waste activities. PADS contains this list of notifiers. To maintain currency, EDR contacts the agency on a quarterly basis.

Date of Government Version in NEDIS: 01/31/92 Date of Last EDR Contact with Government: 11/06/92

#### TSCA Toxic Substances Control Act

TSCA promulgated a rule requiring manufacturers and importers of certain chemical substances included on the TSCA Chemical Substance Inventory list to report current data on the production volume of these substances by plant site. After initial reporting in 1986, recurring reporting is required every 4 years. To maintain currency, EDR contacts the agency on a quarterly basis.

Date of Government Version in NEDIS: 05/15/86 Date of Last EDR Contact with Government: 09/22/92

#### FINDS Facility Index System

FINDS provides EPA with an inventory of almost 500,000 facilities. FINDS contains both facility information and "pointers" to other sources of information that contain more detailed information about the facility. Other sources of information include: HWDMS/RCRIS, PCS, AIRS, FATES (FTTS), CERCLIS, DOCKET, FURS (Federal Underground Injection Control), FRDS, SIA (Surface Impoundments), CICIS (TSCA Chemicals in Commerce Information System), PADS, RCRA-J (medical waste transporters/disposers), TRIS and TSCA. To maintain currency, EDR contacts the agency on a quarterly basis.

Date of Government Version in NEDIS: 03/24/92 Date of Last EDR Contact with Government: 09/21/92

#### CAL-SITES

Hazardous Waste Sites

CAL-SITES combines the former ASPIS (Abandoned Sites Program Information System) and BEP (State Superfund List) hazardous waste site databases. To maintain currency, EDR contacts the agency on a monthly basis.

Date of Government Version in NEDIS: 03/13/92 Date of Last EDR Contact with Government: 10/16/92

#### CHMIRS

California Hazardous Material Incident Report System

CHMIRS contains information on reported hazardous material incidents (accidental releases or spills). To maintain currency, EDR contacts the agency on a quarterly basis.

Date of Government Version in NEDIS: 12/31/90 Date of Last EDR Contact with Government: 09/09/92

#### CORTESE

Identified Hazardous Waste and Substance Sites

The CORTESE list contains hazardous waste and substance sites compiled pursuant to Assembly Bill 3750 (Cortese, Chapter 1048, Statutes of 1986). The information included in this list comes from the State Department of Health Services (public drinking water wells with detectable levels of contamination; hazardous substance sites selected for remedial action; and sites with known toxic material identified through the abandoned site assessment program), the State Water Resources Control Board (sites with USTs having a reportable release), and the California Waste Management Board (all solid waste disposal facilities from which there is known migration). To maintain currency, EDR contacts the agency on a quarterly basis.

Date of Government Version in NEDIS: 09/01/90 Date of Last EDR Contact with Government: 11/03/92

#### NOTIFY 65

Proposition 65 Notification Records

NOTIFY 65 contains facility notifications about any release which could impact drinking water and thereby expose the public to a potential health risk. The notification is required under Proposition 65 (public right-to-know). To maintain currency, EDR contacts the agency on a quarterly basis.

Date of Government Version in NEDIS: 07/15/91 Date of Last EDR Contact with Government: 11/06/92

#### TOXIC PITS

Toxic PITS Cleanup Act Sites

The TOXIC PITS list identifies sites which are subject to the Toxic Pits Cleanup Act. The list contains sites suspected of containing hazardous substances where cleanup has not yet been completed. To maintain currency, EDR contacts the agency on a quarterly basis.

Date of Government Version in NEDIS: 03/16/92
Date of Last EDR Contact with Government: 09/24/92

# 3. HAZ-SEARCH REPORT SUMMARY

BLOCK FACE ACCURACY

# Number of Sites in Database\*

Database	Target Property	Search Distance (Mi)	0-1/8	1/8-1/4	1/4-1/2	1/2-1	Total ———
NPL-Superfund Sites	( )	1.000	0	0	0	0	0
RCRIS-TSDF (Treatment, Storage or Disposal Facility)	( )	1.000	0	0	0	2	2
State Hazardous Waste Sites (SHWS)	DATABASE	NOT AVAILABLE F	ROM TARG	ET PROPERT	Y STATE		
CAL-SITES	( )	1.000	3	4	9	24	40
NOTIFY 65	( )	1.000	2	1	2	0	5
CHMIRS	( )	1.000	0	0	7	7	14
CORTESE	(X) <	1.000	5	5	17	19	46
TOXIC PITS	( )	1.000	0	. 0	0	0	0
CERCLIS Sites >	( )	0.500	2	2	0	NR	4
Solid Waste Facility/ Landfills (SWF/LS)	()	0.500	0	0	0	NR	0
LUST	(X)	0.500	4	5	17	NR	26
<b>UST</b>	(X)	0.125	6	NR	NR	NR	6
RCRIS-LQG (Large Quantity Generators)	( )	0.125	3	NR	NR	NR	3
RCRIS-SQG (Small Quantity Generators)	()	0.125	3	NR	NR	NR	3
Spiils Reported to EPA (ERNS)	<b>()</b>	Target Prop.	NR	NR	NR	NR	
Spills Reported to DOT (HMIRS)	()	Target Prop.	NR	NR	NR	NR	
TRIS	( )	Target Prop.	NR	NR	NR	NR	
TSCA	( )	Target Prop.	NR	NR	NR	NR	
PADS	( )	Target Prop.	NR	NR	NR	NR	
FINDS	$\langle \cdot \rangle$	Target Prop	NR	NR	NR	NR	

<sup>\*</sup>Sites may be listed in more than one database  $\ensuremath{\mathsf{NR}}$  = Not requested to be included in the search radius

# BLOCK GROUP ACCURACY

### Number of Sites in Database\*

Database	Search Distance (Mi)	Within 1 Miles	Total
NPL-Superfund Sites	1.000	0	0
RCRIS-TSDF (Treatment Storage or Disposal Facility	1.000	0	0
State Hazardous Waste Sites (SHWS) CAL-SITES NOTIFY 65 CHMIRS CORTESE TOXIC PITS	DATABASE NOT AVAILA	BLE FROM TARGET PR 1 0 0 1	OPERTY STATE  1 0 0 1 0 1
CERCLIS Sites	1.000	0	0
Solid Waste Facility/ Landfills (SWF/LS)	1.000	0	0
LUST	1.000	1	1
UST	1.000	0	0
RCRIS-LQG (Large Quantity Generators)	1.000	1	1
RCRIS-SQG (Small Quantity Generators)	1.000	1	1
Spills Reported to EPA (ERNS)	Target Prop.	NR	
Spills Reported to DOT (HMIRS)	Target Prop.	NR	
TRIS	Target Prop.	NR	
TSCA	Target Prop.	NR	
PADS	Target Prop.	NR	
FINDS	Target Prop.	NR	

<sup>\*</sup>Sites may be listed in more than one database ...
NR = Not requested to be included in the search radius

ORPHAN GROUP

### Number of Sites in Database\*

Database	Zip Code	Other	Total ———
NPL-Superfund Sites	0	Ò	0
RCRIS-TSDF (Treatment Storage or Disposal Facility	0	0	o
State Hazardous Waste Sites (SHWS)	DATABASE NOT	AVAILABLE FROM TARGE	T PROPERTY STATE
CAL-SITES	1	0	1
NOTIFY 65	0	0	0
CHMIRS	9	17	26
CORTESE	0	17	17
TOXIC PITS	0	0	0
CERCLIS Sites	1	0	1
Solid Waste Facility/ Landfills (SWF/LS)	0	0	0
LUST	0	18	18
UST	0	0	0
RCRIS-LQG (Large Quantity Generators)	1	0	1
RCRIS-SQG (Small Quantity Generators)	0	0	0
Spiils Reported to EPA (ERNS)	NR	NR:	
Spills Reported to DOT (HMIRS)	NR	NR	
TRIS	NR	NR	
TSCA	NR	NR	
PADS	NR	NR	·
FINDS	NR	NR	

<sup>\*</sup>Sites may be listed in more than one database

NR = Not requested to be included in the search radius

# 4. HAZ-SEARCH REPORT FINDINGS

Síte	Database Code(s)	Approximate Distance From Target Property (Miles)	Direction From Target Property	Geocoding Accuracy Flag
*EXXON 720 HIGH ST OAKLAND, CA 94601 EDR ID: S100226798	0,Κ	TARGET PROPERTY	N/A	BF
LUST				
Facility ID: Not Available Date Spilled: 05/01/87 Chemical: GASDLINE Quantity: Not Reported Date Cleaned: Not Available Status: Remediation plan deve	loped.			
*EXXON SERVICE STATION 720 HIGH STREET OAKLAND, CA 94601 EDR ID: U000057121	U	TARGET PROPERTY	N/A	BF
UST				
Facility ID: 00000024096 Total Tanks: 0004				
*AMERON POLE PRODS DIV 4417 DAKPORT ST OAKLAND, CA 94601 (415) 261-3341 EPA ID: CADO09164880 EDR ID: 1000367627	G,1,U	0 - 1/8	SM	BF
Database Codes				
A = CAL-SITES E = ERNS B = PADS F = NOTIFY C = CERCLIS G = RCRIS-S D = HMIRS H = SHWS	65 K = LUST	O = CORTESE T = P = TOXIC PITS U =	TRIS RCRIS-TSDF UST TSCA	
Geocoding Accuracy:				
EDR = EDR Verified BF	= Block Face	CUS = Customer Pro	vided Lat/Lo	ng

Site	Database Code(s)	Approximate Distance From Target Property (Miles)	Direction From Target Property	Geocoding Accuracy Flag
AMERON POLE PRODS DIV-1000367627				
cont				
UST				
Facility ID: 00000019276 Total Tanks: 0001				
BAYSIDE OIL CO	C,I	0 - 1/8	wsw	BF
4200 ALAMEDA AVE				
OAKLAND, CA 94601 EPA ID: CAD980496871				
EDR ID: 1000382119				
CERCLIS				
further acti	currently under investigation by on. on-site assessment was dictated		the extent o	of
BUILDING OPERATIONS DEPT.	ü	0 - 1/8	NE	BF
900 HIGH STREET	v			
GAKLAND, CA 94601 EDR ID: U000057108				
UST				
Facility ID: 00000053801				
Database Codes				
A = CAL-SITES E =	ERNS [ = FINDS	N = NPL S =	TRIS	
· · · · · · · · · · · · · · · · · · ·	NOTIFY 65 K = LUST	O = CORTESE T =		
B = PADS F =	RCRIS-SQG L = SWF/LS	P = TOXIC PITS U =	UST	
C = CERCLIS G =	·			
	SHWS M = CHMIRS		TSCA	
C = CERCLIS G =	·			

# SLOCK FACE

Site		Database Code(s)	Approximate Distance From Target Property (Miles)	Direction From Target Property	Geocoding Accuracy Flag
BUILDING OPERATIONS DEPT.	·U000057108				
cont					
Total Tanks: 0002					
CLOROX CO THE		C,Q,I	0 - 1/8	N	BF
850 42ND AVE		• •			•
OAKLAND, CA 94601					
(415) 462-2100					
EPA ID: CADOO0629485					
EDR ID: 1000368367					
CERCLIS					
	ther action.				
OTHER PERTINENT ENVIRO			Completed - 03/27/90		
OTHER PERTINENT ENVIRON - facility is i	NMENTAL ACTIVITIES ID	ENTIFIED AT SITE:	Completed - 03/27/90  0 - 1/8	N	BF
OTHER PERTINENT ENVIRO	NMENTAL ACTIVITIES ID	DENTIFIED AT SITE: de production		N	BF
OTHER PERTINENT ENVIRO - facility is f CLOROX COMPANY, THE 850 42ND AVENUE	NMENTAL ACTIVITIES ID	DENTIFIED AT SITE: de production		N	BF
OTHER PERTINENT ENVIRO - facility is f CLOROX COMPANY, THE	NMENTAL ACTIVITIES ID	DENTIFIED AT SITE: de production		N	BF
OTHER PERTINENT ENVIRO - facility is f CLOROX COMPANY, THE 850 42ND AVENUE DAKLAND, CA 94608	NMENTAL ACTIVITIES ID	DENTIFIED AT SITE: de production		N	BF
OTHER PERTINENT ENVIRO - facility is f CLCROX COMPANY, THE 850 42ND AVENUE DAKLAND, CA 94608 EDR ID: S100183687	NMENTAL ACTIVITIES ID	DENTIFIED AT SITE: de production		N	BF
OTHER PERTINENT ENVIRO - facility is f CLOROX COMPANY, THE 850 42ND AVENUE DAKLAND, CA 94608 EDR ID: S100183687 CALSITE STATUS	NMENTAL ACTIVITIES ID	DENTIFIED AT SITE: de production		N	BF
OTHER PERTINENT ENVIRO - facility is f CLOROX COMPANY, THE 850 42ND AVENUE DAKLAND, CA 94608 EDR ID: S100183687 CALSITE STATUS Status: Certified	NMENTAL ACTIVITIES ID	DENTIFIED AT SITE: de production			BF
OTHER PERTINENT ENVIRO  - facility is in  CLCROX COMPANY, THE  850 42ND AVENUE  DAKLAND, CA 94608  EDR ID: S100183687  CALSITE STATUS  Status: Certified  Database Codes	NMENTAL ACTIVITIES ID	DENTIFIED AT SITE:	0 - 1/ <b>8</b>	= TRIS	
OTHER PERTINENT ENVIRO  - facility is f  CLCROX COMPANY, THE  B50 42ND AVENUE  DAKLAND, CA 94608  EDR ID: S100183687  CALSITE STATUS  Status: Certified  Database Codes  A = CAL-SITES	NMENTAL ACTIVITIES ID nvolved with pesticion	DENTIFIED AT SITE:  de production  A  I = FINDS	0 - 1/8 N = NPL S	= TRIS = RCRIS-TSDF	
OTHER PERTINENT ENVIRON - facility is for the colorox company, The colorox col	E = ERNS F = NOTIFY 65	PENTIFIED AT SITE:  de production  A  I = FINDS  K = LUST	N = NPL S O = CORTESE T	= TRIS = RCRIS-TSDF = UST	
OTHER PERTINENT ENVIRON - facility is in colorox company, the colorox color	E = ERNS F = NOTIFY 65 G = RCRIS-SQG	I = FINDS  K = LUST  L = SWF/LS	N = NPL S O = CORTESE T P = TOXIC PITS U	= TRIS = RCRIS-TSDF = UST	

Site	Database Code(s)	Approximate Distance Fro Target Prope (miles)		Geocoding Accuracy Flag
*ED'S AUTO WRECKERS 752 HIGH STREET OAKLAND, CA 92626 EDR ID: S100226799	F,0,K	0 - 1/8	ENE	BF
LUST				
Facility ID: Not Available Date Spilled: 03/13/90 Chemical: NOT REPORTED Quantity: Not Reported Date Cleaned: Not Available Status: No action taken by prin initial report of leak.				
*EKO-TEK 4200 ALAMEDA AVE OAKLAND, CA 94601 EDR ID: S100226699	о,к	0 - 1/8	wsw	βF
LUST				
Facility ID: Not Available Date Spilled: 08/03/84 Chemical: DIL&GREASE W Quantity: Not Reported Date Cleaned: Not Available Status: No action taken by prin initial report of leak.				. <u></u>
Database Codes .				
A = CAL-SITES E = ERNS B = PADS F = NOTIFY 6 C = CERCLIS G = RCRIS-SQ D = HMIRS H = SHWS	5 K = LUST	N = NPL O = CORTESE P = TOXIC PITS Q = RCRIS-LQG	S = TRIS T = RCRIS-TSDI U = UST X = TSCA	F
Geocoding Accuracy:				
EDR = EDR Verified 8F	= Block Face	CUS = Custom	er Provided Lat/L	ong

Site		Database Code(s)	Approximate Distance From Target Property (Miles)	Direction From Target Property	Geocoding Accuracy Flag
EKO-TEK-\$100226699					
*EKOTEK INC OAKLAND PLANT 4200 ALAMEDA AVE OAKLAND, CA 94604 (415) 638-3829 EPA ID: CATOOO613422 EDR ID: 1000399868		۵,۱	0 - 1/8	wsw	BF
*EKOTEK LUBE 4200 ALAMEDA AVENUE OAKLAND, CA 94601 EDR ID: \$100183689		0,A	0 - 1/8	WSW	BF
CALSITE STATUS					
Status: Backlog, Po	tential Annual Workp	lan Site			
*HATTEN PROPERTY 752 HIGH ST OAKLAND, CA 94601 EDR ID: S100226800		0,K	0 - 1/8	ENE	BF
LUST					
Facility ID: Not Av Date Spilled: 09/25/					
Database Codes					
A = CAL-SITES B = PADS C = CERCLIS D = HMIRS	E = ERNS F = NOTIFY 65 G = RCRIS-SQG H = SHWS	I = FINDS K = LUST L = SWF/LS M = CHMIRS	N = NPL S =  O = CORTESE T =  P = TOXIC PITS U =  Q = RCRIS-LQG X =	RCRIS-TSD	F
Geocoding Accuracy:					
EDR = EDR Verifi	ed BF = 6	Block Face	CUS = Customer Pr	ovided Lat/Lo	ong

Site				Database Code(s)		Approximate Distance Fro Target Prope (Miles)		Direction From Target Property	Geocoding Accuracy Flag
HATTEN PROPERTY-S100	226800								
Chemical:	WASTE OIL								
Quantity:	Not Reported								
Date Cleaned:									
Status:	No action tal	ken by principr rt of leak.	ole part	y after					
HOYT HEATER CO OF NO	RTHERN CAL		a	, [		0 - 1/8		NE	BF
926 HIGH ST									
OAKLAND, CA 94601									
(415) 532-0533 EPA ID: CADO09155631									
EDR ID: 1000392216									
J M RICH PAINT AND VA 515 HIGH ST DAKLAND, CA 94601 (415) 533-4950 EPA ID: CAD981462823 EDR ID: 1000129931	ARNISH CO		G	,υ		0 - 1/8		SW	BF
UST									
Facility ID:	00000066550								
Total Tanks:									
				<del>-</del> 17					
atabase Codes									
A = CAL-S	ITES E =	ERNS	I =	FINDS	N =	NPL	\$ =	TRIS	
B = PADS	₹ =	NOTIFY 65	K =	LUST	0 =	CORTESE	T =	RCRIS-TSDF	
C = CERCL		RCRIS-SQG	L ≓	SWF/LS	P =	TOXIC PITS	Ü = ∪ _	UST	
D = HMIRS	; H=	SHWS	M =	CHMIRS	Q =	RCRIS-LQG	X =	TSCA	

CUS = Customer Provided Lat/Long

EDR = EDR Verified BF = Block Face

Site		atabase code(s)		Approximate Distance From Target Proper (miles)		Direction From Target Property	Geocoding Accuracy Flag
*KRUGS FINISHING 4356 COLISEUM WAY OAKLAND, CA 94601	А			0 - 1/8		SSE	BF
EDR ID: \$100191994							
CALSITE STATUS							
Status: No Further Action							
*PURCHASING AND SUPPLY DEPT. 1900 HIGH SCHOOL OAKLAND, CA 94601 EDR ID: U000057138	U			0 - 1/8		NE	BF
UST							
Facility ID: 00000053799 Total Tanks: 0001							
SCRAP METAL SUPPLY CO. V 758 HIGH ST OAKLAND, CA 94601 EDR ID: U000057143	U			0 - 1/8		NE	BF
UST							
Facility ID: 00000031734 Total Tanks: 0000							
Database Codes					<u></u>		·
A = CAL-SITES E = B = PADS F = C = CERCLIS G =	ERNS I = NOTIFY 65 K = RCRIS-SQG L =	•	0 = P =	NPL CORTESE TOXIC PITS	S = T = U =	TRIS RCRIS-TSDF UST	
D = HMIRS H =	SHWS M =	CHMIRS	Q =	RCRIS-LQG	X =	TSCA	

EDR = EDR Verified BF = Block Face

	Database Code(s)	Distance From Target Property (miles)	From Target Property	Geocoding Accuracy Flag
SHELL	о,к	0 - 1/8	SW	BF
630 HIGH ST CAKLAND, CA 94601				
EDR ID: \$100226797				
LUST				
Facility ID: Not Available				
Date Spilled: 03/03/89 Chemical: WASTE OIL				
Quantity: Not Reported				
Date Cleaned: Not Available				
Status: Pollution characterization.				
./				
SHELL SELF SERVICE	F	0 - 1/8	SW	BF
630 HIGH STREET				
OAKLAND, CA 92626				
EDR ID: S100178911				
SUDS MACHINE INC	U	0 - 1/8	sw	BF
630 HIGH ST				
DAKLAND, CA 94601				
EDR ID: U000057151				
UST				
Facility ID: 00000005904				
Total Tanks: 0003				
Patabase Codes				
	I = FINDS	N = NPL S =		
	K = LUST	O = CORTESE T =		
	L = SWF/LS M = CHMIRS	P = TOXIC PITS U = Q = RCRIS-LQG X =		
r narko u – oumo	m - CHMIKS	A VOVID-FAM X -	IJUM	
eocoding Accuracy:				

EDR = EDR Verified BF = Block Face

Site	Database Code(s)	Approximate Distance From Target Property (miles)	Direction From Target Property	Geocoding Accuracy Flag
*WASTE OIL RECOVERY SYSTEMS 801 HIGH STREET OAKLAND, CA 94601 (415) 533-4655 EPA ID: CAD000626515 EDR ID: 1000397498	G,[	0 - 1/8	NE	BF
* 1033 44TH AVENUE GWERELLSTEW  OAKLAND, CA 92626 EDR ID: \$100226650	F,O,K	1/8 - 1/4	ENE	8F
Facility ID: Not Available Date Spilled: 01/11/89 Chemical: DIESEL Quantity: Not Reported Date Cleaned: Not Available Status: No action taken by printial report of leak.				
*AMERICAN CAN COMPANY 3801 EAST 8TH STREET OAKLAND, CA 94601 EDR ID: U000057105 LUST	U,O,K	1/8 - 1/4	NW	8f
Facility ID: Not Available Date Spilled: 11/12/86				
Database Codes  A = CAL-SITES E = ERNS B = PADS F = NOTIFY 6 C = CERCLIS G = RCRIS-SQ D = HMIRS H = SHWS	5 K = LUST	N = NPL S =  O = CORTESE T =  P = TOXIC PITS U =  Q = RCRIS-LQG X =	RCRIS-TSD	F
Geocoding Accuracy:  EDR = EDR Verified BF :	= Block Face	CUS = Customer Pr	ovided Lat/Lo	ong

Site				atabase ode(s)		Approximate Distance Fro Target Propo (Miles)	om	Direction From Target Property	Geocoding Accuracy Flag
AMERICAN CAN COMPAN	Y-U000057105								
cont									
Chemical:	GASOL INE								
Quantity:	Not Reported								
Date Cleaned	: Not Available								
Status:	Pollution cha	aracterization	١.						
ust									
Facility ID:	00000069228								
Total Tanks:	8000								
AMERICAN NATIONAL C.	AN CO		C			1/8 - 1/4		NW	BF
3 <b>801 EAST 8TH ST</b> DAKLAND, CA 94601									
EPA ID: CAD00916211	4								
EDR ID: 1000482963	•								
200,02702									
CERCLIS									
Site Status	:This site i	is currently u	nder inv	restigation	by the g	overnment to a	ssess	the extent o	f
Last Assessme	nt:Preliminary		ssment w	as dictated	Comple	eted - 10/21/9	1		
	ITNAI		0,	К		1/8 - 1/4		Е	BF
CHEVRON ASPHALT TERM	I IIAL								
CHEVRON ASPHALT TERM 525 SAN LEANDRO ST	: I I A L								
525 SAN LEANDRO ST DAKLAND, CA 94601	anae								
525 SAN LEANDRO ST	THAT.								
525 SAN LEANDRO ST PAKLAND, CA 94601 DR ID: S100226871	TO THE STATE OF TH						<del></del>		
DAKLAND, CA 94601 DR ID: S100226871 Database Codes	SITES E =	ERNS	1 =	FINDS	N =	NPL	s =	TRIS	
ASSESSAN LEANDRO ST DAKLAND, CA 94601 EDR ID: S100226871	SITES E =			FINDS LUST	N = 0 =	NPL CORTESE	S = T =		
A = CAL-	SITES E =	NOTIFY 65	K =			CORTESE		RCRIS-TSDF	

Geocoding Accuracy:

EDR = EDR Verified BF = Block Face

Approximate Direction Distance From From Geocoding Target Property Target Accuracy Database Code(s) (Miles) Property Flag Site CHEVRON ASPHALT TERMINAL-S100226871 cont... LUST Facility ID: Not Available Date Spilled: 04/27/87 Chemical: MISC MVF Quantity: Not Reported Date Cleaned: Not Available Status: Preliminary site assessment underway. BF 1/8 - 1/4 SE \*LEARNER 0,K 768 46TH AVE OAKLAND, CA 94601 EDR ID: \$100226652 LUST Facility ID: Not Available Date Spilled: 07/20/88 Chemical: MISC MVF Quantity: Not Reported Date Cleaned: Not Available No action taken by principle party after Status: initial report of leak. Database Codes A = CAL-SITES E = ERNS I = FINDS NPL TRIS PADS NOTIFY 65 LUST CORTESE T = RCRIS-TSDF P = TOXIC PITS υ∓ UST CERCLIS RCRIS-SQG SWF/LS C = G = L = HMIRS SHWS M = CHMIRS RCRIS-LQG TSCA

Geocoding Accuracy:

EDR = EDR Verified BF = Block Face

Site	Database Code(s)	Approximate Distance From Target Property (miles)	Direction From Target Property	Geocoding Accuracy Flag
*N L INDUSTRIES, PIGMENTS & CHEMICAL DIV 4701 SAN LEANDRO STREET	A	1/8 - 1/4	E	BF
OAKLAND, CA 94601				
EDR ID: \$100180144				
CALSITE STATUS				
Status: Preliminary Endangerment				
Required, Medium Priorit	·y			
*NL INDS INC PIGMENTS & CHEM DIV	C,I	1/8 - 1/4	E	BF
4701 SAN LEANDRO ST				
OAKLAND, CA 94601				
EPA ID: CAD980637151				
EDR ID: 1000255874				
CERCLIS				
Site Status :This site is curr further action. Last Assessment:Preliminary on-si	ently under investigation by the assessment was dictated Co		the extent o	f
PRIN CACTING	۸	1/8 - 1/4	F	BE
	А	1/8 - 1/4	<b>E</b> .	BF
4701 SAN LEANDRO STREET #5	А	1/8 - 1/4	Ε .	BF
4701 SAN LEANDRO STREET #5 OAKLAND, CA 94601	А	1/8 - 1/4	<b>E</b> .	BF
PRPM CASTING 4701 SAN LEANDRO STREET #5 OAKLAND, CA 94601 EDR ID: S100191261 CALSITE STATUS	А	1/8 - 1/4	<b>E</b> .	BF
OAKLAND, CA 94601 EDR ID: S100191261	А	1/8 - 1/4	E .	BF
4701 SAN LEANDRO STREET #5 OAKLAND, CA 94601 EDR ID: S100191261  CALSITE STATUS	А	1/8 - 1/4	E .	BF
4701 SAN LEANDRO STREET #5  OAKLAND, CA 94601  EDR ID: S100191261  CALSITE STATUS  Status: No Further Action		1/8 - 1/4 I = NPL S ∓	E .	BF
4701 SAN LEANDRO STREET #5  OAKLAND, CA 94601  EDR ID: S100191261  CALSITE STATUS  Status: No Further Action  Database Codes  A = CAL-SITES E = ERNS	I = FINDS N		TRIS	
4701 SAN LEANDRO STREET #5  OAKLAND, CA 94601  EDR ID: S100191261  CALSITE STATUS  Status: No Further Action  Database Codes  A = CAL-SITES E = ERNS B = PADS F = NOTI	I = FINDS N FY 65 K = LUST C	I = NPL S =	TRIS RCRIS-TSDF	
4701 SAN LEANDRO STREET #5  OAKLAND, CA 94601  EDR ID: S100191261  CALSITE STATUS  Status: No Further Action  Database Codes  A = CAL-SITES E = ERNS B = PADS F = NOTI	I = FINDS N FY 65 K = LUST C S-SQG L = SWF/LS F	I = NPL S = CORTESE T =	TRIS RCRIS-TSDF	
4701 SAN LEANDRO STREET #5  OAKLAND, CA 94601  EDR ID: S100191261  CALSITE STATUS  Status: No Further Action  Database Codes  A = CAL-SITES E = ERNS B = PADS F = NOTI C = CERCLIS G = RCRI	I = FINDS M FY 65 K = LUST C S-SQG L = SWF/LS F	I = NPL S = D = CORTESE T = D = TOXIC PITS U =	TRIS RCRIS-TSDF UST	

Site		Database Code(s)	Approximate Distance From Target Property (miles)	Direction From Target Property	Geocoding Accuracy Flag
*SUPERIOR PLASTER CA: 1224 42ND AVENUE OAKLAND, CA 94601 EDR ID: S100191196	STINA	А	1/8 - 1/4	NNE	BF
CALSITE STATUS					
Status: No i	Further Action				
*UNKNOWN 1033 44TH AVE OAKLAND, CA 94601 EDR ID: S100207037		0	1/8 - 1/4	ENE .	BF
*UNKNOWN 1033 44TH AVE OAKLAND, CA 94601 EDR ID: \$100226651		K	1/8 - 1/4	ENE	BF .
Date Spilled: Chemical: Quantity:	Not Available : 10/14/88 MISC MVF Not Reported : Not Available No action taken by pri initial report of leak				

Database Codes	Da	tabase	Codes
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A =	CAL-SITES	E =	ERNS	I =	FINDS	N =	NPL	s =	TRIS
B =	PADS	F =	NOTIFY 65	κ =	LUST	0 =	CORTESE	T =	RCRIS-TSDF
C =	CERCLIS	G =	RCRIS-SQG	L =	SWF/LS	P =	TOXIC PITS	U =	UST
D =	HM1RS	H =	SHWS	M =	CHMIRS	Q =	RCRIS-LQG	x =	TSCA

# Geocoding Accuracy:

EDR = EDR Verified BF = Block Face CUS = Customer Provided Lat/Long

Site	<u>-</u>	Database Code(s)	Approximate Distance From Target Proper (miles)		Geocoding Accuracy Flag
*VULCAN FOUNDRY COMPANY 4401 SAN LEANDRO		Α	1/8 - 1/4	ENE	BF
CAKLAND, CA 94601					
EDR ID: \$100191262					
CALSITE STATUS					
Status: No Further A	ction				,
,		м	1/4 - 1/2	E	BF
1232 51ST AVENUE					
OAKLAND, CA 94601					
EDR ID: \$100217868					
		М	1/4 - 1/2	NNE	BF
1636 ROSEDALE					
OAKLAND, CA 94601					
EDR ID: \$100219214					
			4.4 1.3	NO.	25
C OTU OT AND 7/7H AVE		М	1/4 - 1/2	NW	BF
E. 9TH ST. AND 36TH AVE. OAKLAND, CA					
EDR ID: \$100219512					
EDR 10: 3100219312					
		М	1/4 - 1/2	พพ	BF
819 35TH AVENUE					
OAKLAND, CA 94601					
EDR ID: \$100220038					
Database Codes					
A = CAL-SITES	E = ERNS	I = FINDS	N = NPL	S = TRIS	
B = PADS	F = NOTIFY 65	K = LUST		T = RCRIS-TSDF	:
C = CERCLIS	G = RCRIS-SQG	L = SWF/LS		u = UST	
D = HMIRS	H = SHWS	M = CHMIRS		X = TSCA	

CUS = Customer Provided Lat/Long

EDR = EDR Verified BF = Block Face

Site	Database Code(s)	Approximate Distance From Target Property (miles)	Direction From Target Property	Geocoding Accuracy Flag
* 3100 EAST 9TH STREET OAKLAND, CA 94601 EDR ID: S100221574	М	1/4 - 1/2	NW	BF
* 745 50 AVENUE OAKLAND, CA 94601 EDR_1D: \$100221718	м	1/4 - 1/2	SE	BF
*AAA EQUIPMENT CO. 745 SOTH AVE OAKLAND, CA 94601 EDR ID: S100226658	O,A,K	1/4 - 1/2	SE	BF

LUST

Facility ID: Not Available
Date Spilled: 09/16/87
Chemical: DIESEL

Quantity: Not Reported Date Cleaned: Not Available

Status:

No action taken by principle party after

initial report of leak.

CALSITE STATUS

Status: No Further Action

### Database Codes

A =	CAL-SITES	E =	ERNS	I =	FINDS	N =	NPL	\$ <b>=</b>	TRIS
8 =	PADS	F =	NOTIFY 65	K =	LUST	0 =	CORTESE	T =	RCRIS-TSDF
C =	CERCLIS	G =	RCRIS-SQG	į =	SWF/LS	P =	TOXIC PITS	U =	UST
n =	MMIDS	н =	CHUC	M =	CHMIDS	ο =	PCP15-106	Y =	TSCA

Geocoding Accuracy:

EDR = EDR Verified

BF = Block Face

*ABF FREIGHT SYSTEMS INC  .6575 TIDEMATER AVE CANKLAND, CA. 94601 ((415) \$533-8575 EPA ID: CAD98159734 EDR ID: 1000114617  UST  Facility ID: Not Available Date Spilled: 07/03/86 Chemical: DIESEL OUANTITY: Not Reported Date Cleaned: Not Available Status: Preliminary site assessment underway.  UST  Facility ID: 00000008435 Total Tanks: 0000  *ALLECHENY LUDICEM INDUSTRIES A 1/4 - 1/2 E BF 1226 49TH AVENUE QACLAND, CA. 94601 EDR ID: \$100191333  CALSITE STATUS  Status: No Further Action  Database Codes  A = CAL-SITES E = ERNS	Site			Database Code(s)		Approximate Distance From Target Proper (miles)		Direction From Target Property	Geocoding Accuracy Flag
Facility ID: Not Available Date Spitted: 07/03/86 Chemicat: DIESEL Quantity: Not Reported Date Cleaned: Not Available Status: Pretiminary site assessment underway.  UST  Facility ID: 0000008435 Total Tanks: 0000  *ALLEGHENY LUDLIEM INDUSTRIES A 1/4 - 1/2 E BF 1226 49TH AVENUE DAKLAND, CA 94601 EDR ID: S100191333  CALSITE STATUS  Status: No Further Action  Database Codes  A = CAL-SITES E = ERNS	. 4575 TIDEWATER AVE OAKLAND, CA 94601 (415) 533-8575 EPA ID: CAD981159734	NC		0,1,U,O,K		1/4 - 1/2		SSW	BF
Date Spilled: 07/03/86 Chemical: DIESEL Quantity: Not Reported Date Cleaned: Not Available Status: Preliminary site assessment underway.  UST  Facility ID: 00000008435 Total Tanks: 0000  *ALLEGHENY LUDLIEM INDUSTRIES A 1/4 - 1/2 E BF 1226 49TH AVENUE DAKLAND, CA 94601 EDR ID: \$100191333  CALSITE STATUS  Status: No Further Action  Database Codes  A = CAL-SITES E = ERNS I = FINDS N = NPL S = TRIS B = PADS F = NOTIFY 65 K = LUST D = CORTESE T = RCRIS-TSDF C = CERCLIS G = RCRIS-SQG L = SWF/LS P = TOXIC PITS U = UST D = HMIRS H = SHWS M = CHMIRS Q = RCRIS-LOG X = TSCA	LUST								
Date Spilled: 07/03/86 Chemical: DIESEL Quantity: Not Reported Date Cleaned: Not Available Status: Preliminary site assessment underway.  UST  Facility ID: 00000008435 Total Tanks: 0000  *ALLEGHENY LUDLIEM INDUSTRIES A 1/4 - 1/2 E 8F 1226 49TH AVENUE DAKLAND, CA 94601 EDR ID: \$100191333  CALSITE STATUS  Status: No Further Action  Database Codes  A = CAL-SITES E = ERNS	Facility ID:	Not Available							
Chemical: DIESEL Quantity: Not Reported Date Cleaned: Not Available Status: Preliminary site assessment underway.  UST  Facility ID: 00000008435 Total Tanks: 0000  *ALLEGHENY LUDLIEM INDUSTRIES A 1/4 - 1/2 E BF 1226 497H AVENUE QAKLAND, CA 94601 EDR ID: \$100191333  CALSITE STATUS  Status: No Further Action  Database Codes  A = CAL-SITES E = ERNS I = FINDS N = NPL S = TRIS B = PADS F = NOTIFY 65 K = LUST 0 = CORTESE T = RCRIS-TSDF C = CERCLIS G = RCRIS-SQG L = SWF/LS P = TOXIC PITS U = UST D = HMIRS H = SHWS M = CHMIRS Q = RCRIS-LQG X = TSCA									
Date Cleaned: Not Available Status: Pretiminary site assessment underway.  UST  Facility ID: 00000008435 Total Tanks: 0000  **ALLEGHENY LUDLIEM INDUSTRIES A 1/4 - 1/2 E BF 1226 49TH AVENUE QAKLAND, CA 94601 EDR ID: \$100191333  CALSITE STATUS  Status: No Further Action  Database Codes  A = CAL-SITES E = ERNS									
Status: Preliminary site assessment underway.  UST  Facility ID: 00000008435 Total Tanks: 0000  *ALLEGHENY LUDLIEM INDUSTRIES A 1/4 - 1/2 E BF 1226 49TH AVENUE OAKLAND, CA 94601 EDR ID: \$100191333  CALSITE STATUS  Status: No Further Action  Database Codes  A = CAL-SITES E = ERNS									
Facility ID: 00000008435 Total Tanks: 0000  *ALLEGHENY LUDLIEM INDUSTRIES A 1/4 - 1/2 E BF  1226 49TH AVENUE  GAKLAND, CA 94601 EDR ID: \$100191333  CALSITE STATUS  Status: No Further Action  Database Codes  A = CAL-SITES E = ERNS									
Facility ID: 00000008435 Total Tanks: 0000  *ALLEGHENY LUDLIEM INDUSTRIES A 1/4 - 1/2 E BF  1226 49TH AVENUE GAKLAND, CA 94601 EDR ID: \$100191333  CALSITE STATUS  Status: No Further Action  Database Codes  A = CAL-SITES E = ERNS I = FINDS N = NPL S = TRIS B = PADS F = NOTIFY 65 K = LUST O = CORTESE T = RCRIS-TSDF C = CERCLIS G = RCRIS-SQG L = SWF/LS P = TOXIC PITS U = UST D = HMIRS H = SHWS M = CHMIRS Q = RCRIS-LQG X = TSCA	status:	rretiminary s	ite assessmen	it underway.					
*ALLEGHENY LUDLIEM INDUSTRIES A 1/4 - 1/2 E BF  1226 49TH AVENUE GAKLAND, CA 94601 EDR ID: \$100191333  CALSITE STATUS  Status: No Further Action  Database Codes  A = CAL-SITES E = ERNS	UST								
1226 49TH AVENUE GAKLAND, CA 94601 EDR ID: \$100191333  CALSITE STATUS  Status: No Further Action  Database Codes  A = CAL-SITES E = ERNS I = FINDS N = NPL S = TRIS B = PADS F = NOTIFY 65 K = LUST O = CORTESE I = RCRIS-TSDF C = CERCLIS G = RCRIS-SQG L = SWF/LS P = TOXIC PITS U = UST D = HMIRS H = SHWS M = CHMIRS Q = RCRIS-LQG X = TSCA  Geocoding Accuracy:									
OAKLAND, CA 94601 EDR ID: \$100191333  CALSITE STATUS  Status: No Further Action  Database Codes  A = CAL-SITES E = ERNS		JSTRIES		A		1/4 - 1/2		E	BF
CALSITE STATUS  Status: No Further Action  Database Codes  A = CAL-SITES E = ERNS									
Database Codes  A = CAL-SITES E = ERNS I = FINDS N = NPL S = TRIS B = PADS F = NOTIFY 65 K = LUST O = CORTESE T = RCRIS-TSDF C = CERCLIS G = RCRIS-SQG L = SWF/LS P = TOXIC PITS U = UST D = HMIRS H = SHWS M = CHMIRS Q = RCRIS-LQG X = TSCA  Geocoding Accuracy:									
Database Codes  A = CAL-SITES E = ERNS	CALSITE STATUS								
Database Codes  A = CAL-SITES									
A = CAL-SITES	Status: No Fur	ther Action							
B = PADS F = NOTIFY 65 K = LUST O = CORTESE T = RCRIS-TSDF C = CERCLIS G = RCRIS-SQG L = SWF/LS P = TOXIC PITS U = UST D = HMIRS H = SHWS M = CHMIRS Q = RCRIS-LQG X = TSCA  Geocoding Accuracy:	Database Codes								
C = CERCLIS G = RCRIS-SQG L = SWF/LS P = TOXIC PITS U = UST D = HMIRS H = SHWS M = CHMIRS Q = RCRIS-LQG X = TSCA  Geocoding Accuracy:	A = CAL-SI	TES E =	ERNS	I = FINDS	N =	NPL	s =	TRIS	
D = HMIRS H = SHWS M = CHMIRS Q = RCRIS-LQG X = TSCA  Geocoding Accuracy:	B = PADS	۶≃	NOTIFY 65	K = LUST	0 =	CORTESE	T =	RCRIS-TSDF	
Geocoding Accuracy:		5 G=		•					
	D = HMIRS	н =	SHWS	M = CHMIRS	Q =	RCRIS-LQG	X =	TSCA	
EDD = EDD Varified PE - Plack Food FUS - Customer Provided Lat/Long	Geocoding Accuracy:								
CDK - CDK AGUILISED - BLOCK LATE CO2 - COSTONIEL LIGALISED FOR LAND	EDR = EDR V	erified	BF = 1	Block Face		CUS = Customer	Prov	ided Lat/Lo	ng

Site		Database Code(s)	<del></del>	Approximate Distance From Target Property (miles)	Direction From Target Property	Geocoding Accuracy Flag
*AMERICAN ELECTROFINISHING CO 4933 SAN LEANDRO ST OAKLAND, CA 94601 (415) 533-6831 EPA ID: CADOO9162603 EDR ID: 1000360815		<b>ɑ,I,∪,M,A</b>		1/4 - 1/2	ESE .	BF
CALSITE STATUS						
Status: No Further Ad	ction					
Facility ID: 00000054 Total Tanks: 0005	4664					
*BIG B LUMBERTERIA 301/411 HIGH STREET DAKLAND, CA 94601 EDR ID: S100184314		А		1/4 - 1/2	2M	ßF
CALSITE STATUS						
Status: Not Defined						
*CHEVRON 3126 FERNSIDE BLVD ALAMEDA, CA 94501 EDR ID: S100223513		о,к		1/4 - 1/2	SW	BF
Database Codes						
A = CAL-SITES B = PADS C = CERCLIS D = HMIRS	E = ERNS F = NOTIFY 65 G = RCRIS-SQG H = SHWS	K = LUST L = SWF/LS	0 = P =	CORTESE T	UST	
Geocoding Accuracy:						
EDR = EDR Verified	8F = 1	Block Face	c	:US = Customer Pr	ovided Lat/Lo	ng

Direction Approximate Distance From From Geocoding Target Property Target Accuracy Database Flag (Miles) Property Code(s) Site CHEVRON-\$100223513 cont... LUST Facility ID: Not Available Date Spilled: 08/11/87 Chemical: **GASOLINE** Quantity: Not Reported Date Cleaned: Not Available Remediation plan developed. Status: 女42~49 1/4 - 1/2 BF 0,K MNW \*CHEVRON 3616 SAN LEANDRO ST OAKLAND, CA 94601 EDR ID: \$100226870 LUST Facility ID: Not Available Date Spilled: 07/12/88 Chemical: **GASOLINE** Not Reported Quantity: Date Cleaned: Not Available Preliminary site assessment underway. Status: Database Codes CAL-SITES Ε = ERNS 1 = FINDS N = NPL s = TRIS A = LUST 0 = CORTESE RCRIS-TSDF B = NOTIFY 65 K = PADS

c = CERCLIS RCRIS-SQG ٤ = SWF/LS TOXIC PITS UST Q = RCRIS-LQG X = TSCA HMIRS SHWS CHMIRS M =

Geocoding Accuracy:

EDR = EDR Verified BF = Block Face CUS = Customer Provided Lat/Long

Site	Database Code(s)	Approximate Distance From Target Property (miles)	Direction From Target Property	Geocoding Accuracy Flag
*COMMERCIAL DELIVERY SERVICE #2 1266 45TH AVENUE CAKLAND, CA 94601 EDR ID: S100191636	A	1/4 - 1/2	ENE	BF
*CONTINENTAL VOLVO, INC. 4030 E. 14TH SI. OAKLAND, CA 94601 EDR ID: U000057111	U,0,K	1/4 - 1/2	NNE	BF
Facility ID: Not Available Date Spilled: 04/20/87 Chemical: WASTE OIL Quantity: Not Reported Date Cleaned: Not Available Status: No action tak	e ken by principle party after			
UST  Facility ID: 00000005977  Total Tanks: 0001				

Database	Codes

A =	CAL-SITES	£ =	ERNS	I =	FINDS	N =	NPL	s =	TRIS
B =	PADS	F =	NOTIFY 65	K =	LUST	0 =	CORTESE	T =	RCRIS-TSDF
C =	CERCLIS	G =	RCRIS-SQG	L =	SWF/LS	P =	TOXIC PITS	U =	UST
D =	HMIRS	H =	SHWS	M ∓	CHMIRS	Q =	RCRIS-LQG	X =	TSCA

Geocoding Accuracy:

EDR = EDR Verified BF = Block Face CUS = Customer Provided Lat/Long

Site		Database Code(s)	Dista	ximate nce from t Property s)	Direction From Target Property	Geocoding Accuracy Flag
*DISALVO TRUCKING 4919 TIDEWATER OAKLAND, CA 94601 EDR ID: S100226900		o,K	1/4 -	1/2	S	BF
LUST						
Date Cleaned: Not A Status: No ac	/89 L eported	le party after				
*F&K INVESTMENT CO. 1259 48TH AVE OAKLAND, CA 94601 EDR ID: \$100226655		ο,κ	1/4 -	1/2	E	BF .
Date Cleaned: Not A Status: No ac	/87 INE eported	le party after				
Database Codes						
A = CAL-SITES B = PADS C = CERCLIS D = HMIRS	E = ERNS F = NOTIFY 65 G = RCRIS-SQG H = SHWS	I = FINDS K = LUST L = SWF/LS M = CHMIRS	N = NPL O = CORTES P = TOXIC Q = RCRIS	SE T = PITS U =	RCRIS-TSD	F
depropried versions.						

Site		Database Code(s)	Approximate Distance From Target Property (Miles)	Direction From Target Property	Geocoding Accuracy Flag
F&K INVESTMENT COS1002266	55				
*GENERAL AUTOMATIC MFG CO. 4726 E. 12TH OAKLAND, CA 94601 EDR ID: S100191259		<b>A</b>	1/4 - 1/2	E	BF
CALSITE STATUS					
Status: No Further	Action				
*GEPPETTO INDUSTRIES 828 34TH AVENUE OAKLAND, CA 94601 EDR ID: \$100191094		А	1/4 - 1/2	иш	BF
CALSITE STATUS					
*ITEL CONTAINER 400 HIGH ST OAKLAND, CA 94601 EDR ID: \$100226796	Action	σ, <b>κ</b>	1/4 - 1/2	SW	BF
Facility ID: Not Av Date Spilled: 05/03/					
Database Codes					
A = CAL-SITES B = PADS C = CERCLIS D = HMIRS	E = ERNS F = NOTIFY 65 G = RCRIS-SQG H = SHWS	I = FINDS K = LUST L = SWF/LS M = CHMIRS	N = NPL S O = CORTESE T P = TOXIC PITS U Q = RCRIS-LQG X	= RCRIS-TSD: = UST	F
Geocoding Accuracy:					
EDR = EDR Verific	ed BF =	Block Face	CUS = Customer P	rovided Lat/L	ong

Site			Database Code(s)	Approxim Distance Target P (Miles)	From	Direction From Target Property	Geocoding Accuracy Flag
ITEL CONTAINER-S1002	26796						
cont							
Chemical:	DIESEL						
Quantity:	Not Reported						
Date Cleaned:	Not Available						
Status:	No action tak		le party after				
KING SALES ENGINEERI	NG INC		A	1/4 - 1/2	2	E	BF
4949 EAST 12TH STREE	Т						
OAKLAND, CA 94610 EDR ID: S100191394							
CALSITE STATUS							
Status: No Fo	urther Action						
LEARNER COMPANY			0,К	1/4 - 1/2		w	BF
3675 ALAMEDA AVE	1/						
OAKLAND, CA 94601	•						
EDR ID: \$100226697							
LUST							
Facility ID:	Not Available						
Date Spilled:							
Chemical:	REGULR GASOL						
Quantity:	Not Reported						
Database Codes							·
A = CAL-S	SITES E =	ERNS	I = FINDS	N = NPL	s =	TRIS	
B = PADS	F =	NOTIFY 65	K = LUST	O = CORTESE	T =	RCRIS-TSDF	
C = CERCL		RCRIS-SQG	L = SWF/LS	P = TOXIC PIT		UST	
D = HM1RS	H =	<b>SW</b> K2	M = CHMIRS	Q = RCRIS-LQG	X =	TSCA	
leocoding Accuracy:							
seconding Accusely.							

EDR = EDR Verified BF = Block Face

Site		Database Code(s)		ce from Property	Direction From Target Property	Geocoding Accuracy Flag
LEARNER COMPANY-\$100226697						
Cont Date Cleaned: Not Avai	labia					
	n taken by princip	le party after				
	report of leak.					
NORCAL		0,K	1/4 -	1/2	E	BF
12 <b>3</b> 4 47TH AVE						
OAKLAND, CA 94601						
EDR ID: \$100226654						
LUST						
Facility ID: Not Avai						
Date Spilled: 11/07/88 Chemical: WASTE OI						
Chemical: WASTE OII Quantity: Not Repo					,	
Date Cleaned: Not Avai						
	n taken by princip	le party after				
	report of leak.					
OWENS-ILLINGIS PLANT 20		х,а,к	1/4 - 1	/2	W	BF
3600 ALAMEDA AVE						
OAKLAND, CA 94604 EDR ID: 1000319788						
LUST						
Facility ID: Not Avail Date Spilled: 03/12/87						
Database Codes						
A = CAL-SITES	E = ERNS	I = FINDS	N = NPL	s =	TRIS	
B = PADS	F = NOTIFY 65	K = LUST	O = CORTESE	T =	RCRIS-TSD	•
	G = RCRIS-SQG	L = SWF/LS	P = TOXIC F			
D = HMIRS	H = SHWS	M = CHMIRS	G = RCRIS-Ł	QG X =	TSCA	
Geocoding Accuracy:						
EDR = EDR Verified	BF = 6	Block Face	cus = c	ustomer Pr	ovided Lat/Lo	ng

Direction Approximate From Geocoding Distance from Database Target Property Target Accuracy (Miles) Property Flag Code(s) Site OWENS-ILLINOIS -- PLANT 20-1000319788 cont... Chemical: #6 FUEL OIL Quantity: Not Reported Date Cleaned: Not Available No action taken by principle party after initial report of leak. E ΒF 1/4 - 1/2 \*PETERSON PROPERTIES 0,K 1066 47TH AVE OAKLAND, CA 94601 EDR ID: \$100226653 LUST Facility ID: Not Available Date Spilled: 12/23/88 WASTE OIL Chemical: Not Reported Quantity: Date Cleaned: Not Available Preliminary site assessment underway. Status: BF 1/4 - 1/2 SE \*PG&E 0,K 4930 COLLISEUM WAY OAKLAND, CA 94601 EDR ID: \$100226730 LUST Facility ID: Not Available Date Spilled: 02/01/88 Database Codes FINDS NPL TRIS Ε = ERNS A = CAL-SITES RCRIS-TSDF PADS NOTIFY 65 LUST 0 = CORTESE Ţ = SWF/LS TOXIC PITS U = UST RCRIS-SQG L = CERCLIS G = TSCA RCRIS-LQG HMIRS SHWS CHMIRS X = Geocoding Accuracy: BF = Block Face CUS = Customer Provided Lat/Long EDR = EDR Verified

Site	Database Code(s)	Approximate Distance From Target Property (Miles)	Direction From Target Property	Geocoding Accuracy Flag
PG&E-S100226730				
cont				
Chemical: WASTE OIL Quantity: Not Reported				
Date Cleaned: Not Available				
	essessment underway.	•		
		477 473	CCE	BF
*PG&E	ο,κ	1/4 - 1/2	SSE	D.F
4801 CAKPORT OAKLAND, CA 94601				
EDR ID: \$100226844				
LUST				
Facility ID: Not Available				
Date Spilled: 08/11/87				
Chemical: GASOLINE Quantity: Not Reported				
Date Cleaned: Not Available				
	principle party after			
	teak.	f		
*SH <b>E</b> LL	o,K	1/4 - 1/2	N	BF
3750 E 14TH ST	<b>-</b> ,	., ., ., -		
OAKLAND, CA 94601		•		
EDR ID: \$100226746				
LUST				
Facility ID: Not Available				
Date Spilled: 10/13/89				
Database Codes				
A = CAL-SITES E = ERN	S [ = FINDS	N = NPL S =	TRIS	
	IFY 65 K = LUST	O = CORTESE T =		•
C = CERCLIS G = RCR D ± HMIRS H = SHW	IS-SQG L = SWF/LS S M = CHMIRS	P = TOXIC PITS U = Q = RCRIS-LQG X =		
Geocoding Accuracy:	·			
EDR = EDR Verified	BF = Block Face	CUS = Customer Pr	ovided Lat/Lo	ong

Site				atabase ode(s)		Approximate Distance Fro Target Prope (Miles)		Direction From Target Property	Geocoding Accuracy Flag
SHELL-S100226746									
Chemical:	GASOLINE								
	Not Reported								
Date Cleaned:	•								
	Preliminary s		it under	way.					
UNOCAL	/		٥	, K		1/4 - 1/2		NE	BF
4251 E 14TH ST	/		ŭ	,,,		.,,			
OAKLAND, CA 94601	$\checkmark$								
EDR ID: \$100226748									
LUST									
Facility ID:	Not Available								
Date Spilled:		•							
	WASTE OIL								
Quantity:	Not Reported								
Date Cleaned:	Not Available								
Status:	Preliminary s	ite assessm <mark>en</mark>	t under	way.					
JNOCAL SVC STA #2656			G	,I,U,F	·	1/4 - 1/2		NE	BF
4251 E 14TH ST									
DAKLAND, CA 94601									
(415) 945-7676									
PA ID: CAD982055378									
EDR ID: 1000167197									
atabase Codes									
A = CAL-S	ITES E =	ERNS	I =	FINDS	N =	NPL	\$ =	TRIS	
B = PADS	F =	NOTIFY 65	K =	LUST	0 =	CORTESE	T =	RCRIS-TSDF	
C = CERCL		RCRIS-SQG	L =	SWF/LS	P =	TOXIC PITS	U =	UST	
D = HMIRS	Н =	SHWS	M =	CHMIRS	Q =	RCRIS-LQG	X =	TSCA	
eocoding Accuracy:									

EDR = EDR Verified 8F = Block Face CUS = Customer Provided Lat/Long

Site	Database Code(s)	Approximate Distance From Target Propert (Miles)	Direction from Target Property	Geocoding Accuracy Flag
UNOCAL SVC STA #2656-1000167197				
UST				
Facility ID: 00000031715 Total Tanks: 0004				
*US COLD STORAGE 3925 ALAMEDA AVE OAKLAND, CA 94601 EDR ID: S100226698	ο,κ	1/4 - 1/2	w	BF
LUST				
Facility ID: Not Availab Date Spilled: 08/02/88 Chemical: GASOLINE Quantity: Not Reported Date Cleaned: Not Available Status: No action to	d le aken by principle party after			
VOLVO GM HEAVY TRUCK CORP. 750 50TH AVE. Oaktand, CA 92626 EDR ID: S100179671	F	1/4 - 1/2	SE	BF
Database Codes	<del></del>			
		O = CORTESE P = TOXIC PITS L	S = TRIS T = RCRIS-TSDF J = UST C = TSCA	
Geocoding Accuracy:			,	
EDR = EDR Verified	BF = Block Face	CUS = Customer	Provided Lat/Lo	ng

Site	Database Code(s)	Approximate Distance from Target Property (miles)	Direction From Target Property	Geocoding Accuracy Flag
*X-PERTS AUTO PAINTING 4201 EAST 14TH STREET CAKLAND, CA 94601 EDR ID: S100191975	A	1/4 - 1/2	NE	BF
CALSITE STATUS				
Status: No Further Action				
* 1801 PARK STREET ALAMEDA, CA 94501 EDR ID: S100219600	М	1/2 - 1	W	BF
* 2900 E. 7 STREET OAKLAND, CA EDR ID: S100219727	м	1/2 - 1	WNU	BF
4606 BOND STREET OAKLAND, CA 94601 EDR ID: S100220347	М	1/2 - 1	ENE	BF
2101' 38TH AVENUE FRONT OF OAKLAND, CA 94601 EDR ID: \$100221013	м	1/2 - 1	NNE	BF
Database Codes	····			
A = CAL-SITES E = ERNS B = PADS F = NOTIFY 65 C = CERCLIS G = RCRIS-SQC D = HMIRS H = SHWS	·	N = NPL S = 0 = CORTESE T = P = TOXIC PITS U = Q = RCRIS-LQG X =	RCRIS-TSDF UST	
Geocoding Accuracy:				

EDR = EDR Verified BF = Block Face

Site	Database Code(s)	Approximate Distance From Target Property (miles)	Direction From Target Property	Geocoding Accuracy Flag
* 5731 SAN LEANDRO BLVD. OAKLAND OAKLAND, CA 94621	м	1/2 - 1	SE	BF
EDR ID: \$100221273				
* 807 54 AVENUE OAKLAND, CA 94601 EDR ID: \$100221475	M	1/2 - 1	SE	8F
* 1120 SEMINARY AVENUE OAKLAND, CA 94621 EDR ID: S100221771	М	1/2 - 1	SE	ВF
*AC TRANSIT 1100 SMEINARY AVE OAKLAND, CA 94621 EDR ID: S100206980	0	1/2 - 1	ESE	8F
*ALAMEDA COLLISION 1911 PARK ST ALAMEDA, CA 94501 EDR ID: S100223530	o,ĸ	1/2 - 1	<b>V</b>	8F
LUST  Facility ID: Not Available  Date Spilled: 07/29/88				·
Database Codes				
A = CAL-SITES E = ERNS B = PADS F = NOTIFY 65 C = CERCLIS G = RCRIS-SQG D = HMIRS H = SHWS		N = NPL S = O = CORTESE T = P = TOXIC PITS U = Q = RCRIS-LQG X =	RCRIS-TSDF UST	:
D = HMIRS H = SHWS  Geocoding Accuracy:	M = CHMIRS	Q = RCRIS-LQG X =	TSCA	

BF = Block Face .

CUS = Customer Provided Lat/Long

EDR = EDR Verified

Approximate Direction Distance From From Geocoding Accuracy Target Property Target Database Flag Site Code(s) (Miles) Property

ALAMEDA COLLISION-S100223530

cont...

Chemical:

**GASOLINE** 

Quantity:

Not Reported

Date Cleaned: Not Available

Status:

No action taken by principle party after

initial report of leak.

\*AMERICAN CONTRACTING SERV

Q,I,U,O,K

1/2 - 1

NW

ВF

3229 SAN LEANDRO ST OAKLAND, CA 94601

(415) 533-1040

EPA ID: CAD098317563

EDR ID: 1000360829

LUST

Facility ID: Not Available Date Spilled: 05/18/88 Chemical: NOT REPORTED

Quantity:

Not Reported Date Cleaned: Not Available

No action taken by principle party after

initial report of leak.

UST

Facility ID: 00000018377

Database Codes

NPL TRIS ERNS FINDS CAL-SITES E = **!** =

RCRIS-TSDF PADS NOTIFY 65 LUST CORTESE

UST TOXIC PITS C = CERCLIS G≔ RCRIS-SQG L = SWF/LS HMIRS CHMIRS RCRIS-LQG TSCA

Geocoding Accuracy:

EDR = EDR Verified BF = Block Face CUS = Customer Provided Lat/Long

Site		Database Code(s)		Approximate Distance From Target Property (Miles)	Direction From Target Property	Geocoding Accuracy flag
AMERICAN CONTRACTING SERV-10003608	329					
Total Tanks: 0002						
*ANALYSTS INC		Q,I,U,A		1/2 - 1	WNW	BF
2910 FORD ST						
OAKLAND, CA 94601 (415) 536-5914						
EPA ID: CAD981389232						
EDR ID: 1000293766						
CALSITE STATUS						
Status: No Further Action	•					
Facility ID: 00000060871 Total Tanks: 0002						
*ARMOR EQUIPMENT COMPANY		A		1/2 - 1	ESE	BF
1137 57TH STREET						
OAKLAND, CA 94601						
EDR ID: \$100191709						
CALSITE STATUS						
Status: No Further Action						
Database Codes			<del>.</del>		· ·	
A = CAL-SITES E =	ERNS	1 = FINDS	N =	NPL S =	TRIS	
	NOTIFY 65	K = LUST		CORTESE T =		
	RCRIS-SQG	L = SWF/LS	P =	TOXIC PITS U =	UST	
D = HMIRS H =	SHWS	M = CHMIRS	Q =	RCRIS-LQG X =	TSCA	
Geocoding Accuracy:		*				
EDR = EDR Verified	BF = {	Block Face	C	US = Customer Pr	ovided Lat/Lo	ng

Site	Database Code(s)	Approximate Distance From Target Property (miles)	Direction From Target Property	Geocoding Accuracy Flag
*BAY AREA REMODELING 5230 EAST 12TH STREET  OAKLAND, CA 94601  EDR ID: \$100191065	A	1/2 - 1	ESE	BF
CALSITE STATUS				
Status: No Further Action				
*BERKELEY FARMS 1313 53RD AVE OAKLAND, CA 94601 EDR ID: S100226320	0,K	1/2 - 1	E	BF .
LUST				
Facility ID: Not Available Date Spilled: 03/17/88 Chemical: DIESEL Quantity: Not Reported Date Cleaned: Not Available Status: No action taken by principl initial report of leak.	e party after			
*CAMPANELLA PROPERTIES 5401 SAN LEANDRO ST OAKLAND, CA 94601 EDR ID: S100207110	a	1/2 - 1	ESE	BF
Database Codes				
A = CAL-SITES E = ERNS B = PADS F = NOTIFY 65 C = CERCLIS G = RCRIS-SQG D = HMIRS H = SHWS	I = FINDS K = LUST L = SWF/LS M = CHMIRS	N = NPL S = O = CORTESE T = P = TOXIC PITS U = Q = RCRIS-LQG X =	RCRIS-TSDF UST	
Geocoding Accuracy:				
EDR = EDR Verified BF = B	lock Face	CUS = Customer Pro	ovided Lat/Lo	eng

2406 EAGLE AVENUE ALAMEDA, CA 94501 EDR ID: S100191423  CALSITE STATUS  Status: No Further Action  **CHEVRON	S = TRIS T = RCRIS-TSDF PITS U = UST	Site	Database Code(s)	Approximate Distance From Target Property (miles)	Direction From Target Property	Geocoding Accuracy Flag
2406 EAGLE AVENUE ALAMEDA, CA 94501 EDR ID: \$100191423  CALSITE STATUS  Status: No Further Action **CHEVRON	S = TRIS T = RCRIS-TSDF PITS U = UST	*CUALET TOOL COMPANY	٨	1/2 - 1	, U	RE
ALAMEDA, CA 94501 EDR ID: S100191423  CALSITE STATUS  Status: No Further Action  **CHEVRON	S = TRIS T = RCRIS-TSDF UTS U = UST		~	1/2 3	•	ы
CALSITE STATUS  Status: No Further Action  **CHEVRON	S = TRIS T = RCRIS-TSDF PITS U = UST					
Status: No Further Action  **CHEVRON	S = TRIS T = RCRIS-TSDF UTS U = UST					
O,K 1/2 - 1 NE BI  4265 FOOTHILL BLVD  OAKLAND, CA 94601  EDR ID: \$100226773  LUST  Facility ID: Not Available Date Spilled: 07/10/87 Chemical: GASOLINE Quantity: Not Reported Date Cleaned: Not Available Status: Preliminary site assessment underway.  FCLAMP SWING PRICING COMPANY  A 1/2 - 1 W 8F  2515 BLANDING AVENUE  ALAMEDA, CA 94501  EDR ID: \$100191324  CALSITE STATUS  Status: No Further Action  Database Codes  A = CAL-SITES E = ERNS	S = TRIS T = RCRIS-TSDF OITS U = UST	CALSITE STATUS				
4265 FOOTHILL BLVD  OAKLAND, CA 94601  EDR ID: \$100226773  LUST  Facility ID: Not Available    Date Spilled: 07/10/87    Chemical: GASOLINE    Quantity: Not Reported    Date Cleaned: Not Available    Status: Preliminary site assessment underway.  PCLAMP SWING PRICING COMPANY  A 1/2 - 1 W BF  2515 BLANDING AVENUE  ALAMEDA, CA 94501  EDR ID: \$100191324  CALSITE STATUS  Status: No Further Action  Database Codes  A = CAL-SITES E = ERNS	S = TRIS T = RCRIS-TSDF PITS U = UST	Status: No Further Action				
Facility ID: Not Available Date Spilled: 07/10/87 Chemical: GASOLINE Quantity: Not Reported Date Cleaned: Not Available Status: Preliminary site assessment underway.  **CLAMP SWING PRICING COMPANY A 1/2 - 1 W BF 2515 BLANDING AVENUE ALAMEDA, CA 94501 EDR ID: \$100191324  **CALSITE STATUS  Status: No Further Action  **Database Codes  A = CAL-SITES E = ERNS	S = TRIS E T = RCRIS-TSDF PITS U = UST	4265 FOOTHILL BLVD V OAKLAND, CA 94601	о,к	1/2 - 1	NE	BF
Date Spilled: 07/10/87 Chemical: GASOLINE Quantity: Not Reported Date Cleaned: Not Available Status: Preliminary site assessment underway.  FCLAMP SWING PRICING COMPANY A 1/2 - 1 W BF 2515 BLANDING AVENUE ALAMEDA, CA 94501 EDR ID: \$100191324  CALSITE STATUS  Status: No further Action  Database Codes  A = CAL-SITES E = ERNS	S = TRIS E T = RCRIS-TSDF PITS U = UST	LUST				
CLAMP SWING PRICING COMPANY  A 1/2 - 1 W BF 2515 BLANDING AVENUE  ALAMEDA, CA 94501  EDR ID: \$100191324  CALSITE STATUS  Status: No Further Action  Database Codes  A = CAL-SITES E = ERNS I = FINDS N = NPL S = TRIS B = PADS F = NOTIFY 65 K = LUST O = CORTESE T = RCRIS-TSDF C = CERCLIS G = RCRIS-SQG L = SWF/LS P = TOXIC PITS U = UST	S = TRIS E T = RCRIS-TSDF PITS U = UST	Date Spilled: 07/10/87 Chemical: GASOLINE Quantity: Not Reported Date Cleaned: Not Available	ssment underway.			
2515 BLANDING AVENUE ALAMEDA, CA 94501 EDR ID: \$100191324  CALSITE STATUS  Status: No Further Action  Database Codes  A = CAL-SITES E = ERNS I = FINDS N = NPL S = TRIS B = PADS F = NOTIFY 65 K = LUST O = CORTESE T = RCRIS-TSDF C = CERCLIS G = RCRIS-SQG L = SWF/LS P = TOXIC PITS U = UST	S = TRIS E T = RCRIS-TSDF PITS U = UST	,,,,				
Status: No Further Action  Database Codes  A = CAL-SITES E = ERNS I = FINDS N = NPL S = TRIS B = PADS F = NOTIFY 65 K = LUST O = CORTESE I = RCRIS-TSDF C = CERCLIS G = RCRIS-SQG L = SWF/LS P = TOXIC PITS U = UST	T = RCRIS-TSDF PITS U = UST	ALAMEDA, CA 94501	А	1/2 - 1	v	BF
Database Codes  A = CAL-SITES E = ERNS I = FINDS N = NPL S = TRIS B = PADS F = NOTIFY 65 K = LUST O = CORTESE I = RCRIS-TSDF C = CERCLIS G = RCRIS-SQG L = SWF/LS P = TOXIC PITS U = UST	T = RCRIS-TSDF PITS U = UST	CALSITE STATUS				
A = CAL-SITES E = ERNS I = FINDS N = NPL S = TRIS B = PADS F = NOTIFY 65 K = LUST O = CORTESE T = RCRIS-TSDF C = CERCLIS G = RCRIS-SQG L = SWF/LS P = TOXIC PITS U = UST	T = RCRIS-TSDF PITS U = UST	Status: No Further Action				
A = CAL-SITES E = ERNS I = FINDS N = NPL S = TRIS B = PADS F = NOTIFY 65 K = LUST O = CORTESE T = RCRIS-TSDF C = CERCLIS G = RCRIS-SQG L = SWF/LS P = TOXIC PITS U = UST	T = RCRIS-TSDF PITS U = UST	·				
B = PADS $F = NOTIFY 65$ $K = LUST$ $O = CORTESE$ $T = RCRIS-TSDF$ $C = CERCLIS$ $G = RCRIS-SQG$ $L = SWF/LS$ $P = TOXIC PITS$ $U = UST$	T = RCRIS-TSDF PITS U = UST	Database Codes				
C = CERCLIS G = RCRIS-SQG L = SWF/LS P = TOXIC PITS U = UST	PITS U = UST	A = CAL-SITES E = ERNS	I = FINDS	N = NPL S =	TRIS	
		B = PADS $F = NOTIFY$	65 K = LUST	O = CORTESE T =	RCRIS-TSDF	
n= unite $u=$ cute $m=$ cuties $n=$ projective $V=$ Term	.QG X = TSCA					
D - UMIKO U - SUMO N - CUMIKO M - KCKIO-EMO V - 1904		D = HMIRS H = SHWS	M = CHMIRS	Q = RCRIS-LQG X =	TSCA	

EDR = EDR Verified BF = Block Face

Site		Database Code(s)	Approximate Distance From Target Property (miles)	Direction From Target Property	Geocoding Accuracy Flag
*CONNERS FRAME SHOP 815 PORTWOOD AVENUE OAKLAND, CA 94601		A	1/2 - 1	WNW	BF
EDR ID: S100191091  CALSITE STATUS					
Status: No I	Further Action				
*DEL MONTE-PLANT #37 2980 E. 9TH STREET OAKLAND, CA 94601 EDR ID: U000057114		u,o,K	1/2 - 1	WNW	BF
LUST					
Date Spilled: Chemical: Quantity:	Not Available 12/17/85 OIL&GREASE W Not Reported Not Available No action taken by prin				
ust					
Facility ID: Total Tanks:	00000001368 0000				

Da	taba	ase	Codes

A =	CAL-SITES	Ę≖	ERNS	I =	FINDS	N =	NPL	s =	TRIS
B =	PADS	F =	NOTIFY 65	Κ =	LUST	0 =	CORTESE	T =	RCRIS-TSDF
C =	CERCLIS	G =	RCRIS-SQG	L =	SWF/LS	P≡	TOXIC PITS	U =	UST
D =	HMIRS	H =	SHWS	M =	CHMIRS	Q =	RCRIS-LQG	X =	TSCA

## Geocoding Accuracy:

EDR = EDR Verified BF = Block Face CUS = Customer Provided Lat/Long

Site	W. 1	Database Code(s)	Approximate Distance From Target Property (miles)	Direction From Target Property	Geocoding Accuracy Flag
*DEWEO		A	1/2 - 1	SW	BF
2917 CENTRAL AVENUE					
ALAMEDA, CA 94501	*				
EDR ID: S100191446					
CALSITE STATUS					
Status: No Further Actio	n				
EMPIRE BATTERY CORPORATION		<b>A</b>	1/2 - 1	WNW	BF
2921 CHAPMAN STREET					
OAKLAND, CA 94607					
EDR ID: S100191447					•
CALSITE STATUS					
Status: No Further Actic	n				
ESPOSITO PLATING & POLISHING CO		0,0,7,1,0,0	1/2 - 1	WN <b>U</b>	BF
2904-2908 CHAPMAN ST					
OAKLAND, CA 94601 (415) 261-1147					
EPA ID: CADO09174103					
EDR ID: 1000342340					
CERCLIS					
Site Status :This site further a		der investigation by t	he gover <b>nme</b> nt to assess	the extent o	f
Database Codes					<u> </u>
A = CAL-SITES E	= ERNS	I = FINDS	N = NPL S =	TRIS	
B = PADS F	= NOTIFY 65	K = LUST	O = CORTESE T =	RCRIS-TSDF	
C = CERCLIS G	= RCRIS-SQG	L = SWF/LS	P = TOXIC PITS U =	UST	
D = HMIRS H	= SHWS	M = CHMIRS	Q = RCRIS-LQG X =	TSCA	

Geocoding Accuracy:

EDR = EDR Verified

BF = Block Face

Site	Database Code(s)	Di Ta	proximate stance From rget Property iles)	Direction From Target Property	Geocoding Accuracy Flag
ESPOSITO PLATING & POLISHING CO-1000342340 cont  Last Assessment:Preliminary on-site assessmen	nr was dictated (	Completed	- 04/01/87		
UST		<b>-</b>	, ,		
Facility ID: 00000058852 Total Tanks: 0003					
*EXCHANGE LINE SERVICE OF CALIFORNIA 527 23RD AVENUE OAKLAND, CA 94606 EDR ID: \$100191864	A	1/7	2 - 1	WNW	BF
CALSITE STATUS					
Status: No Further Action					
*FERRO-ENAMELING COMPANY 1100 57TH AVENUE (PO BOX 2246) OAKLAND, CA 94621 EDR ID: S100191180	А	1/2	2 - 1	ESE	Bf
CALSITE STATUS					
Status: No Further Action					
Database Codes					
A = CAL-SITES	± LUST = SWF/LS	P = 10)	S = RTESE T = RTS-LQG X =	TRIS RCRIS-TSDF UST TSCA	

EDR = EDR Verified BF = Block Face

CUS = Customer Provided Lat/Long

Geocoding Accuracy:

Site		Database Code(s)	Approxit Distance Target (miles)	e From Property	Direction From Target Property	Geocoding Accuracy Flag
*FORDOM PARK 5725 E 14TH OAKLAND, CA. 94621 EDR ID: \$100226741		o,K	1/2 - 1		E	BF
LUST						
	ted.	ile party after				-
G M ASSOCIATES INC 1912 EVERETT STREET ALAMEDA, CA 94501 EDR ID: \$100191468		А	1/2 - 1		u	BF
CALSITE STATUS						
Status: No Further Act	ion					
GENERAL ELECTRIC - OAKLAND 5441 EAST 14TH STREET OAKLAND, CA 94601 EDR ID: S100226750		н,о,а,к	1/2 - 1		<b>.</b>	BF
Database Codes			· · · ·			
B = PADS F C = CERCLIS G	E = ERNS F = NOTIFY 65 G = RCRIS-SQG H = SHWS	K = LUST	N = NPL O = CORTESE P = TOXIC PI Q = RCRIS-LQ	T = TS U =	TRIS RCRIS-TSDF UST TSCA	
Geocoding Accuracy:						
				stomer Pro		

Approximate Direction Distance From From Geocoding Database Target Property Target Accuracy Flag (Miles) Property Site Code(s) GENERAL ELECTRIC - OAKLAND-S100226750 cont... LUST Facility ID: Not Available Date Spilled: 12/03/87 Chemical: MISC MVF Quantity: Not Reported Date Cleaned: Not Available No action taken by principle party after initial report of leak. CALSITE STATUS Status: Annual Workplan - Active Site 1/2 - 1Ε ВF \*GENERAL ELECTRIC CO C,Q,T,B,I 5441 E 14TH ST OAKLAND, CA 94601 (415) 436-9550 EPA ID: CAD009208075 EDR ID: 1000214031 CERCLIS :This site is currently under investigation by the government to assess the extent of Site Status further action. Last Assessment:A more thorough site inspection was called Completed - 10/01/81 Database Codes TRIS CAL-SITES ERNS 1 = FINDS N = NPL **S** = NOTIFY 65 O = CORTESE T = RCRIS-TSDF B = PADS K = LUST € = CERCLIS G = RCRIS-SQG L = SWF/LS TOXIC PITS UST TSCA RCRIS-LQG X = HMIRS H = SHWS M = CHMIRS Q = Geocoding Accuracy:

CUS = Customer Provided Lat/Long

BF = Block Face

EDR = EDR Verified

Direction Approximate Distance From From Geocoding Target Property Database Target Accuracy Code(s) (Miles) Property Flag Site GENERAL ELECTRIC CO-1000214031 OTHER PERTINENT ENVIRONMENTAL ACTIVITIES IDENTIFIED AT SITE: - facility is a PCB generator, storer, transporter or permitted disposer 1/2 - 1WSW ₿F \*GENERAL WHALE Α 1829 VERCILLES STREET ALAMEDA, CA 94501 EDR 10: \$100192062 CALSITE STATUS Status: No Further Action \*INDUSTRIAL STEAM U,0,K 1/2 - 1 UNW BF 2985 FORD ST OAKLAND, CA 94601 EDR ID: U000057125 LUST Facility ID: Not Available Date Spilled: 02/15/89 Chemical: MISC MVF Quantity: Not Reported Date Cleaned: Not Available No action taken by principle party after initial report of leak. Database Codes A = CAL-SITES E = ERNS FINDS N = NPL TRIS PADS NOTIFY 65 LUST CORTESE RCRIS-TSDF B = F = 0 = CERCLIS RCRIS-SQG SWF/LS TOXIC PITS UST HMIRS SHWS CHMIRS RCRIS-LQG TSCA

CUS = Customer Provided Lat/Long

BF = Block Face

Geocoding Accuracy:

EDR = EDR Verified

Site		Databas Code(s)		Approximate Distance From Target Proper (Miles)		Geocoding Accuracy Flag
3110		<u> </u>				
INDUSTRIAL STEAM-U000057125						
cont						
UST						
Facility ID: 00000052603						
Total Tanks: 0001						
				1/2 - 1	w	BF .
KING, JACK H 2001-A VERSAILLES		Α	•	.,	<del></del>	
ALAMEDA, CA 94501						
EDR ID: S100191755						
CALSITE STATUS						
Status: No Further Action						
t & M PLATING		А		1/2 - 1	ESE	BF
920/930 54TH AVENUE						
OAKLAND, CA 94608 EDR ID: \$100183694						
EDR 10. 3100183874						
CALSITE STATUS						
Status: Certified						
FL&M PLATING		0		1/2 - 1	ESE	BF
920 54TH AVENUE						
OAKLAND, CA 94601						
EDR ID: \$100207152						
Database Codes	<del></del>				<u>.</u>	
A = CAL-SITES E =	ERNS	I = FIND	os N=	NPL	S = TRIS	
B = PADS F =	-	K = LUST	r 0 =	CORTESE	T = RCRIS-TSD	F
C = CERCLIS G =	RCRIS-SQG	L = SWF/	LS P =	TOXIC PITS	u = U\$T	
D = HMIR\$ H =	SHWS	M = CHMI	irs Q =	RCRIS-LQG	X = TSCA	
Geocoding Accuracy:						
EDR = EDR Verified	BF = 8	lock Face		CUS = Custome	r Provided Lat/L	ong

Site				Database Code(s)		Approximate Distance Fro Target Proportions (miles)	om .	Direction From Target Property	Geocoding Accuracy Flag
LOCH LOMAND MARINE SUPPLY C	OMPANY		ı	A		1/2 - 1		WNW	BF
333 KENNEDY STREET									
OAKLAND, CA 94603									
EDR ID: S100191680									
CALSITE STATUS				•					
Status: No Further	Action								
MCNEILL MANUFACTURING			į.	1		1/2 - 1		WNW	BF
2914 EAST 7TH STREET						- '			
OAKLAND, CA 94606									
EDR ID: S100191312									
CALSITE STATUS									
Status: No Further A	Action								
MELROSE METAL PRODUCTS			A			1/2 - 1		WNW	BF
2960 CHAPMAN STREET									
DAKLAND, CA 94602									
EDR ID: \$100191425									
CALSITE STATUS									
Status: No Further A	ction				-				
OBIL			0			1/2 - 1		NE	BF
280 FOOTHILL BLVD									
AKLAND, CA 94601									
DR ID: \$100206990		-							
atabase Codes					· · · · · · · · · · · · · · · · · ·		·		<del></del>
A = CAL-SITES	£ =	ERNS	I =	FINDS	N =	NPL	\$ =	TRIS	•
B = PADS	F =	NOTIFY 65	κ =	LUST	0 =	CORTESE	T =	RCRIS-TSDF	
C = CERCLIS	G =	RCRIS-SQG	L =	SWF/LS	P =	TOXIC PITS	ប =	UST	
D = HMIRS	н =	SHWS	M =	CHMIRS	Q =	RCRIS-LOG	X =	TSCA	

CUS = Customer Provided Lat/Long

BF = Block Face

EDR = EDR Verified

Site	Database Code(s)	Approximate Distance From Target Property (miles)	Direction From Geocodi Target Accurac Property Flag	
*NATIONAL SURFACING COMPANY, INC 814 29TH AVENUE OAKLAND, CA 94601 EDR ID: S100191003	A	1/2 - 1	WNW BF	
CALSITE STATUS				
Status: No Further Action				
*PENSKE TRUCK LEASING CO LP 725 JULIE ANN WAY OAKLAND, CA 94621 (415) 873-5443 EPA ID: CAD981661960 EDR ID: 1000383090	G,I,O,K	1/2 - 1	SE BF	
LUST				
Facility ID: Not Available Date Spilled: 10/27/89 Chemical: MISC MVF Quantity: Not Reported Date Cleaned: Not Available Status: No action taken by initial report of l	principle party after eak.			
*PETERSON AND OLSON 1719 28TH AVENUE OAKLAND, CA 94601 EDR ID: \$100191055	<b>A</b>	1/2 - 1	WNW BF	
Database Codes				
	FY 65 K = LUST S-SQG L = SWF/LS	N = NPL S = O = CORTESE T = P = TOXIC PITS U = Q = RCRIS-LQG X =	RCRIS-TSDF UST	
	os - otaskis	SUS a Sustance Page		
EDR = EDR Verified	BF = Block Face	CUS = Customer Pro	vided Lat/Long	

Site	Database Code(s)	Approximate Distance from Target Property (Miles)	Direction From Target Property	Geocoding Accuracy Flag
PETERSON AND OLSON-S100191055				
CALSITE STATUS				
Status: No Further Action				
*PRODUCTION GRINDING 1200 53RD AVENUE OAKLAND, CA 94601 EDR ID: \$100191273	А	1/2 - 1	ESE	ΒF
CALSITE STATUS				
Status: No Further Action				
*QUAKER DATS COMPANY, DAKLAND P 5625 EAST 14TH STREET DAKLAND, CA 94621 EDR ID: U000057632	U,O,K	1/2 - 1	Ε	BF
LUST				
Facility ID: Not Available Date Spilled: 06/26/89 Chemical: MISC MVF Quantity: Not Reported Date Cleaned: Not Available Status: No action taken by printial report of leak				·
Database Codes				
A = CAL-SITES E = ERNS B = PADS F = NOTIFY 6 C = CERCLIS G = RCRIS-SG D = HMIRS H = SHWS		N = NPL S = O = CORTESE T = P = TOXIC PITS U = Q = RCRIS-LQG X =	RCRIS-TSDF	
Geocoding Accuracy:				
EDR = EDR Verified 8F	= Block Face	CUS = Customer Pr	ovided Lat/Lo	ng

Approximate Direction Geocoding Distance From From Database Target Property Target Accuracy Flag (Miles) Property Code(s) Site QUAKER DATS COMPANY, OAKLAND P-U000057632 cont... UST Facility ID: 00000066130 Total Tanks: 0003 1/2 - 1 ВF \*RHODES-JAMIESON BATCH PLANT 0,K WNW 333 KENNEDY ST OAKLAND, CA 94606 EDR ID: \$100226804 LUST Facility ID: Not Available Date Spilled: 08/08/85 Chemical: DIESEL Quantity: Not Reported Date Cleaned: Not Available Status: Pollution characterization. 1/2 - 1ΝE ВF \*ROGERS VALET SERVICE Α 4133 FOOTHILL BOULEVARD OAKLAND, CA 94601 EDR ID: S100191877 CALSITE STATUS Status: No Further Action Database Codes A = CAL-SITES E = ERNS [ = FINDS NPL TRIS RCRIS-TSDF PADS NOTIFY 65 K = LUST CORTESE SWF/LS P = TOXIC PITS U = UST C = CERCLIS G = RCRIS-SQG L = **TSCA** HMIRS SHWS CHMIRS RCRIS-LQG

CUS = Customer Provided Lat/Long

BF = Block Face

Geocoding Accuracy:

EDR = EDR Verified

Site	Database Code(s)	Approximate Distance From Target Property (miles)	Direction From Geocoding Target Accuracy Property Flag
*SIMMONS TERMINAL CORP 315 DERBY AVE OAKLAND, CA 94601 (415) 532-4112 EPA ID: CAD980737845 EDR ID: 1000301608	Q,I,U,O,K	1/2 - 1	WNW BF
LUST			
Facility ID: Not Available Date Spilled: 12/24/84 Chemical: GASOLINE Quantity: Not Reported Date Cleaned: Not Available Status: Pollution characterization.			
UST			
Facility ID: 00000014306 Total Tanks: 0002			
*SINCLAIR & VALENTINE 1104 57 AVE 0AKLAND, CA 94609 EPA ID: CAD000095158 EDR ID: 1000173887	C, I, A	1/2 - 1	ESE BF
CERCLIS			
Site Status :This site is currently und further action.	der investigation by	the government to asses	s the extent of
Database Codes			
A = CAL-SITES E = ERNS B = PADS F = NOTIFY 65 C = CERCLIS G = RCRIS-SGG D = HMIRS H = SHWS	1 = FINDS K = LUST L = SWF/LS M = CHMIRS	O = CORTESE T	
Geocoding Accuracy:			
EDR = EDR Verified BF = BU	ock Face	CUS = Customer P	rovided Lat/Long

Approximate

Direction

Distance From

From Target Geocoding Accuracy

Site

Database Code(s)

Target Property (Miles)

Property

flag

SINCLAIR & VALENTINE-1000173887

Last Assessment:Preliminary on-site assessment was dictated Completed - 05/01/84

CALSITE STATUS

Status: No Further Action

\*STOP N GO MARKET (07-784)

U,0,K

1/2 - 1

NNE

BF

4100 FOOTHILL BLVD. OAKLAND, CA 94601 EDR ID: U000057149

LUST

Facility ID: Not Available Date Spilled: 10/09/86 Chemical: GASOLINE Quantity: Not Reported Date Cleaned: Not Available

Status:

No action taken by principle party after

initial report of leak.

UST

Facility ID: 00000019848

Total Tanks: 0003

Database Codes

A = CAL-SITES E = ERNS FINDS

NPL

TRIS

8 = PADS

NOTIFY 65

LUST

0 = CORTESE RCRIS-TSDF

G = RCRIS-SQG

SWF/LS L =

P = TOXIC PITS UST

CERCLIS HMIRS

SHWS

M = CHMIRS

RCRIS-LQG

TSCA

Geocoding Accuracy:

EDR = EDR Verified

BF = Block Face

Site				atabase ode(s)		Approximate Distance Fr Target Prop (miles)	om	Direction From Target Property	Geocoding Accuracy Flag
*TEXACO			0,	.K		1/2 - 1		SW	BF
1357 HIGH ST									
ALAMEDA, CA 94501									
EDR ID: \$100223516									
LUST									
Facility ID:	Not Available								
Date Spilled:									
	GASOL I NE								
Quantity:	Not Reported								
	Not Available		i						
Status:	No action tak initial repor		ie party	аттег					
EDR ID: S100191792  CALSITE STATUS  Status: No F	urther Action								
Jatabase Codes									
•	SITES E =	ERNS	I =	FINDS	N ≂	NPL	S =	TRIS	
•	SITES E = F =	ERNS NOTIFY 65	I = K =	FINDS LUST	N = O =	NPL CORTESE	S = T =		
A = CAL-	F = C = C1							TRIS RCRIS-TSDF	

CUS = Customer Provided Lat/Long

BF = Block Face

EDR = EDR Verified

## BLOCK GROUP

The Following list of sites are geocoded at the accuracy level associated with "Block Group". This means there is a 90% confidence the sites are within 3700 feet of their true location. Providing distance and direction could result in misleading information and is therefore not appropriate for these sites. EDR is continuously working to obtain better locational information on these sites.

Site		Database Code(s)	
*DRY CLEAN USA 2359 S SHORE CENTER ALAMEDA, CA 94501 (415) 769-2161 EPA ID: CAD981617061 EDR ID: 1000107822		G, I	
*GARRETT FREIGHT LINE 64TH & LACOSTE EMERYVILLE, CA EDR ID: S100226323		о,к	
Date Spilled: Chemical: Quantity:	MISC MVF	irty after	
*GUHL MANUFACTURING 7001 SNELL STREET DAKLAND, CA 94621		A	

Database	Codes
----------	-------

EDR ID: S100191963

A =	CAL-SITES	Ę =	ERNS	I =	FINDS	N =	NPL	\$ =	TRIS
B =	PADS	F =	NOTIFY 65	κ =	LUST	0 =	CORTESE	1 =	RCRIS-TSDF
. C =	CERCLIS	G =	RCRIS-SQG	L =	SWF/LS	P =	TOXIC PITS	U =	UST
D =	HMIRS	H =	SHWS	<b>M</b> =	CHMIRS	Q =	RCRIS-LQG	X =	TSCA

## Geocoding Accuracy:

EDR = EDR Verified BF = Block Face CUS = Customer Provided Lat/Long

## BLOCK GROUP

Database Code(s)

Site

GUHL MANUFACTURING-\$100191963 cont...

CALSITE STATUS

Status: No Further Action

\*VASUS ONE HOUR MARTINIZING 2210-I S SHORE CENTER ALAMEDA, CA 94501 (415) 532-6033 EPA ID: CAD981620834

EDR ID: 1000427522

Q,I

Database Codes

E = ERNS A = CAL-SITES I = FINDS N = NPL S = TRIS T = RCRIS-TSDF O = CORTESE B = PADS NOTIFY 65 K = LUST UST C = CERCLIS G = RCRIS-SQG L = SWF/LS P = TOXIC PITS Q = RCRIS-LQG X = TSCA SHWS M = CHMIRS HMIRS H =

Geocoding Accuracy:

EDR = EDR Verified

BF = Block face

#### ADDITIONAL INFORMATION

The following list contains sites with high potential liability, i.e., Superfund Sites (NPL), Hazardous Waste Treatment, Storage or Disposal Facilities (TSDF), CERCLIS Hazardous Waste Sites, State Hazardous Waste Sites (SHWS) and landfills (SWF/LS), which are located outside the radius search, but are within the zip code of the target property. These sites may actually, due to geocoding tolerance, be closer to the target property.

Site Database Code(s)

NO SITES FOUND

## Database Codes

A =: CAL-SITES E = ERNS FINDS N = NPL TRIS RCRIS-TSDF 8 = PADS F≖ NOTIFY 65 LUST 0 = CORTESE K = c = CERCLIS G = RCRIS-SQG L = SWF/LS P = TOXIC PITS UST HMIRS H = M = CHMIRS X = TSCA SHWS RCRIS-LQG

Geocoding Accuracy:

EDR = EDR Verified

BF = Block Face

## ORPHAN LIST - ZIP CODE

The orphan list (zip code) contains sites which, for wnatever reason, could not be geocoded to a level more accurate that zip code centroid. The most common reason is lack of a valid street address within the reported zip code. These sites may or may not be within close proximity of the target property; however all have the same zip code as the target property

Site	Database Code(s)
* PETERSON & CHAPMAN STREETS GAKLAND, CA 94601 EDR ID: S100217902	. М
*  F/O 1036 CALCOT PL.  OAKLAND, CA 94601  EDR ID: \$100220397	M
* R/O 600 50TH AVENUE OAKLAND, CA 94601 EDR ID: \$100220544	• м
* I-880 S/B S/42ND STREET OAKLAND, CA 94601 EDR ID: S100220847	м
* I-880 (N/B) S/FRANKLIN STREET OAKLAND, CA 94601 EDR ID: S100220909	м

## Database Codes

A =	CAL-SITES	₤ =	ERNS	1 =	FINDS	N =	NPL	s =	TRIS
B =	PADS	F =	NOTIFY 65	K =	LUST	0 =	CORTESE	T =	RCRIS-TSDF
c =	CERCLIS	G =	RCRIS-SQG	L =	SWF/LS	P =	TOXIC PITS	U =	UST
D =	HMIRS	Н =	SHWS	M =	CHMIRS	Q =	RCRIS-LQG	X = .	TSCA

## Geocoding Accuracy:

EDR = EDR Verified BF = Block Face CUS = Customer Provided Lat/Long

cia-		Database Code(s)		
Site				
•		M		
R/O 9601 SAN LEANDRO STREET				
OAKLAND, CA 94601				
EDR ID: \$100221389				
•		М		
A/O 22ND & E 14 STREET				
OAKLAND, CA 94601				
EDR ID: \$100221489				
•		ы		
A/O 16TH AVENUE & EMBARCADE	pn.	М		
OAKLAND, CA 94601	xu			
EDR ID: S100221583		•		
EDK 10. 3100221303				
•		М		
A/O COLISEUM & INDEPANDANT	ROAD			
OAKLAND, CA 94601				
EDR ID: \$100221735				
NATIONAL LEAD CO		C,I		
47TH AVE & E 10TH ST				
OAKLAND, CA 94601				
EPA ID: CAD980637144				
EDR ID: 1000260582				
CERCLIS				
	site is currently u	nder investigation b	y the government to a	assess the extent of
Site Status :This	site is currently under action.	nder investigation b	y the government to a	assess the extent of
Site Status :This	ner action.			
Site Status :This	ner action.			
Site Status :This	ner action.			
Site Status :This furth Last Assessment:Preli	ner action.			
Site Status :This furth Last Assessment:Preli	ner action. iminary on-site asse	ssment was dictated	Completed - 08/01/8	38
Site Status :This furth Last Assessment:Preli  Database Codes  A = CAL-SITES	ner action. iminary on-site asses E = ERNS	ssment was dictated	Completed - 08/01/8	\$ = TRIS
Site Status :This furth Last Assessment:Preli	ner action. iminary on-site asse	ssment was dictated	Completed - 08/01/8	38

EDR = EDR Verified BF = Block Face CUS = Customer Provided Lat/Long

Geocoding Accuracy:

Site

Code(s)

\*NATIONAL LEAD COMPANY 47TH AVENUE & EAST 10TH STREET OAKLAND, CA 94601 EDR ID: \$100191181

Α

CALSITE STATUS

EDR ID: 1000442564

Status: No Further Action

\*RUIZ ANTIQUE LIGHTING STORAGE NO 60 5200 COLISEUM WY OAKLAND, CA 94601 (415) 526-8400 EPA ID: CAD981669328

I,D

Database Codes

A = CAL-SITES E = CRNS I = FINDSN = NPL S = TRIS O = CORTESE K = LUST T = RCRIS-TSDF F = NOTIFY 65B = PADS U = UST G = RCRIS-SQG L = SWF/LSP = TOXIC PITS C = CERCLIS M = CHMIRS Q = RCRIS-LQG X = TSCA D = HMIRS H = SHWS

Geocoding Accuracy:

EDR = EDR Verified BF = Block Face

The orphan list (other) contains sites which, for wnatever reason, could not be geocoded. Common reasons may include lack of a valid street address or an unidentifiable city or state. These sites may or may not be within close proximity of the target property; however, all are contained within the same city (or cities) or county as the target property's zip code.

Site	Database Code(s)			
* I-880 S/W HEGENBERGER RD	М			
OAKLAND, CA EDR ID: \$100215802				
* 53 ST. & M.L. KING JR. WAY OAKLAND, CA EDR ID: S100216028	м			
*	М			
330 CYPRESS ACROSS FROM OAKLAND, CA EDR ID: S100216188				
*	М			
S/B I-880 S/O 23RD AVE. OAKLAND, CA EDR ID: S100216443				
*	М			
A/O 6700 OLMSTEAD ST. OAKLAND, CA EDR ID: S100216561				-
Database Codes				
A = CAL-SITES É = ERNS B = PADS F = NOTIF	I = FINDS Y 65 K = LUST	N = NPL O = CORTESE	S = TRIS T = RCRIS-TSDF	

BF = Block Face

L = SWF/LS

M = CHMIRS

RCRIS-SQG

SHWS

H =

C = CERCLIS

EDR = EDR Verified

D = HMIRS

Geocoding Accuracy:

P = TOXIC PITS

Q = RCRIS-LQG

UST

TSCA

Site		Database Code(s)			
*		м			
A/O RUSSET & MOORPARK					
OAKLAND, CA EDR ID: S100217858					
*		м			
I-880 N/98TH AVE					
OAKLAND, CA EDR ID: S100218343					
251. 151. 01002.0210					
*		М			
1-880 20' N/16TH AVE					
OAKLAND, CA					
EDR ID: \$100218926					
*		М			
GRIZZLY PEAK & MARBORO TER	R			•	
OAKLAND, CA					
EDR ID: S100219500					
•		м			
E 12TH STREET @ 16TH AVENU	E OVERPASS				
OAKLAND, CA		,			
EDR ID: \$100220510					
_					
6200 BLOCK COLISEM WAY		M			
OAKLAND, CA					
EDR ID: \$100220765					
		М			
N/B 1-880 625 N/JACKSON ST	REET				
OAKLAND, CA EDR ID: S100221336					
No. of the contract of the con					
Database Codes					
A = CAL-SITES	E = ERNS	· I = FINDS	N = NPL	S = TRIS	
B = PADS	F = NOTIFY 65	K = LUST	O = CORTESE	T = RCRIS-TSDF	
C = CERCLIS	G = RCRIS-SQG	L = SWF/LS	P = TOXIC PITS	U = UST	
D = HMIRS	H ≃ SHWS	M = CHMIRS	Q = RCRIS-LQG	X = TSCA	
Geocoding Accuracy:					
EDR = EDR Verifi	ied BF =	Block Face	CUS = Custor	mer Provided Lat/Long	

Site		Database Code(s)			
* BATAAW & MARITIMEI OAKLAND, CA EDR ID: S100221566		М			
*  F/O 7858 BANCRAFT AVENUE  OAKLAND, CA  EDR ID: S100221714		м			
* N/B I-880 S/O 16TH AVE. OAKLAND, CA EDR ID: S100221937		ч			
* I-880 S/O HIGH ST. OAKLAND, CA EDR ID: S100221938	`	м			
* I-880 - HIGH ST. OAKLAND, CA EDR ID: S100221942		м			
*AVIS SERVICE CENTER 1 NEIL ARMSTRONG WAY OAKLAND, CA EDR 1D: S100226840		ਰ <b>,</b> K			
LUST Facility ID: Not Av	ailable				
Database Codes					
A = CAL-SITES B = PADS C = CERCLIS D = HMIRS	E = ERNS F = NOTIFY 65 G = RCRIS-SQG H = SHWS	I = FINDS K = LUST L = SWF/LS M = CHMIRS	N = NPL O = CORTESE P = TOXIC PITS Q = RCRIS-LQG	S = TRIS T = RCRIS-TSDF U = UST X = TSCA	
Geocoding Accuracy:					

CUS = Customer Provided Lat/Long

EDR = EDR Verified BF = Block Face

K

Database

Site

Code(s)

AVIS SERVICE CENTER-\$100226840

cont...

Date Spilled: 10/05/89
Chemical: GASOLINE
Quantity: Not Reported
Date Cleaned: Not Available

Status:

Preliminary site assessment workplan submitted.

\*CAN TRANSPORT

196 BURMA RD

OAKLAND, CA

EDR ID: \$100226719

LUST

Facility ID: Not Available Date Spilled: 06/20/90

Chemical:

WASTE OIL

Quantity: Not Reported
Date Cleaned: Not Available

Status:

No action taken by principle party after

initial report of leak.

\*CHEVRON

0,K

CAKLAND INTH'L AIR .

OAKLAND, CA

EDR ID: \$100226843

LUST

Facility ID: Not Available

Database Codes

A = CAL-SITES E = ERNS I = FINDS N = NPL S = TRIS

B = PADS F = NOTIFY 65 K = LUST O = CORTESE T = RCRIS-TSOF

C = CERCLIS G = RCRIS-SQG L = SWF/LS P = TOXIC PITS U = UST D = HMIRS H = SHWS M = CHMIRS Q = RCRIS-LQG X = TSCA

Geocoding Accuracy:

EDR = EDR Verified

BF = Block Face

0,K

K

Database Code(s)

Site

CHEVRON-S100226843

cont...

Date Spilled: 07/30/85 Chemical: GASOLINE Quantity: Not Reported Date Cleaned: Not Available

No action taken by principle party after

initial report of leak.

\*CLAREMONT RESORT

ASHBY & DOMINGO OAKLAND, CA

EDR 1D: \$100226702

LUST

Facility ID: Not Available Date Spilled: 06/20/88 Chemical: WASTE DIL Not Reported Quantity: Date Cleaned: Not Available

Status:

Preliminary site assessment underway.

\*DAVID PROPERTY

106 & 110 HEGENBERGER

OAKLAND, CA

EDR ID: S100226792

LUST

Facility ID: Not Available

Database Codes

S = TRIS E = ERNS I = FINDS N = NPL A = CAL-SITES F = NOTIFY 65 K = LUST 0 = CORTESE RCRIS-TSDF B = PADS UST RCRIS-SQG L = SWF/LS P = TOXIC PITS U = CERCLIS G = H = SHWS M = CHMIRS Q = RCRIS-LQG X = TSCA

Geocoding Accuracy:

EDR = EDR Verified

D = HMIRS

BF = Block Face

0, K

0,K

Site

Code(s)

DAVID PROPERTY-\$100226792

cont...

Date Spilled: 09/27/90
Chemical: GASOLINE
Quantity: Not Reported
Date Cleaned: Not Available
Status: Not defined.

\*EBMUD

OAKPORT RD OAKLAND, CA

EDR ID: \$100226845

LUST

Facility ID: Not Available
Date Spilled: 07/01/87
Chemical: DIESEL
Quantity: Not Reported

Date Cleaned: Not Available

Status: No action taken by principle party after

initial report of leak.

\*MOBIL

PETROLEUM ST CAKLAND, CA

EDR ID: \$100226858

LUST

Facility ID: Not Available

Database Codes

A = CAL-SITES E = ERNS I = FINDS S = TRIS RCRIS-TSDF F = NOTIFY 65 0 = B = PADS K = LUST CORTESE Ç = CERCLIS G = RCRIS-SQG r = SWF/LS TOXIC PITS U = UST H = SHWS M = CHMIRS RCRIS-LQG X = TSCA HMIRS

Geocoding Accuracy:

EDR = EDR Verified

BF = Block Face

Site

Code(s)

O,K

MOBIL-\$100226858

cont...

Date Spilled: 10/19/83
Chemical: GASOLINE
Quantity: Not Reported
Date Cleaned: Not Available

Status:

Preliminary site assessment underway.

\*MOBIL

L

PORT OF OAKLAND OAKLAND, CA

EDR ID: S100226862

LUST

Facility ID: Not Available
Date Spilled: 12/06/79
Chemical: GASOLINE
Quantity: Not Reported
Date Cleaned: Not Available

Status:

Post remedial action monitoring in progress.

\*MOUIS DRAZAGE CO.

190 96TH AVE

OAKLAND, CA

EDR ID: S100226682

LUST

Facility ID: Not Available

Database Codes

A = CAL-SITES E = ERNS I = FINDS N = NPL S = TRIS

ď,K

B = PADS F = NOTIFY 65 K = LUST O = CORTESE T = RCRIS-TSDF

C = CERCLIS G = RCRIS-SQG L = SWF/LS P = TOXIC PITS U = UST

D = HMIRS H = SHWS M = CHMIRS Q = RCRIS-LQG X = TSCA

Geocoding Accuracy:

EDR = EDR Verified 8F = Block Face CUS = Custo

Site

Code(s)

MOUIS DRAZAGE CO.-\$100226682

cont...

Date Spitied: 12/30/86
Chemical: DIESEL
Quantity: Not Reported
Date Cleaned: Not Available

Status:

No action taken by principle party after

initial report of leak.

\*NATIONAL AIROMOTIVE

O,K

EARHART RD OAKLAND, CA

EDR ID: \$100226759

LUST

Facility ID: Not Available
Date Spilled: 04/21/86
Chemical: MISC MVF
Quantity: Not Reported
Date Cleaned: Not Available

Status

No action taken by principle party after

initial report of leak.

\*OAKLAND REDEVELOPMENT AGENCY 1330 MARTIN LUTHER KING 0,K

OAKLAND, CA

EDR ID: \$100226827

LUST

Facility ID: Not Available

Database Codes

A = CAL-SITES ξ = ERNS I = FINDSN = NPL S = TRIS B = PADS F = NOTIFY 65 K = LUST O = CORTESE T = RCRIS-TSDF C = CERCLIS G = RCRIS-SQG L = SWF/LS P = TOXIC PITS U = UST X = TSCA HMIRS H = SHWS M = CHMIRS Q = RCRIS-LQG D ≃

Geocoding Accuracy:

EDR = EDR Verified

BF = Block Face

Site

Code(s)

OAKLAND REDEVELOPMENT AGENCY-\$100226827

cont...

Date Spilled: 07/27/88
Chemical: GASOLINE
Quantity: Not Reported
Date Cleaned: Not Available

Status:

Preliminary site assessment underway.

\*OLD CAKLAND TRIBUNE GARAGE

0,K

VALDEZ & 13TH OAKLAND, CA

EDR ID: S100226903

LUST

Facility ID: Not Available
Date Spilled: 08/08/88
Chemical: WASTE OIL
Quantity: Not Reported
Date Cleaned: Not Available

Status:

No action taken by principle party after

initial report of leak.

\*PORT OF OAKLAND

ο,κ

BERTHS 4 & 5 DAKLAND, CA

EDR ID: \$100226708

LUST

Facility ID: Not Available

Database Codes

A = CAL-SITES E = ERNS I = FINDS N = NPL S = TRIS B = PADS F = NOTIFY 65 K = LUST O = CORTESE T = RCRIS-TSDF

Geocoding Accuracy:

EDR = EDR Verified BF = Block Face

Database

Site

Code(s)

0,K

PORT OF CAKLAND-\$100226708

Date Spilled: 03/19/80 Chemical: GASOLINE Not Reported Quantity: Date Cleaned: Not Available

Status:

Post remedial action monitoring in progress.

\*SHELL

TERMINAL FACILITY DAKLAND, CA

EDR ID: \$100226899

LUST

Facility ID: Not Available Date Spilled: 12/02/85 Chemical: GASOLINE Quantity: Not Reported Date Cleaned: Not Available

No action taken by principle party after

initial report of leak.

\*SOUTHERN PACIFIC

PRIVATE RD OAKLAND, CA

EDR ID: \$100226863

LUST

Facility ID: Not Available

Database Codes

TRIS A = CAL-SITES ERNS I = FINDS N = NPL S = Ę .=

0,K

NOTIFY 65 K = LUST CORTESE T = RCRIS-TSDF 8 = PADS F =

UST RCRIS-SQG P = TOXIC PITS U = C = CERCLIS G = L = SWF/LS TSCA SHWS M = CHMIRS Q = RCRIS-LQG X = D = HMIRS H =

Geocoding Accuracy:

BF = Block Face EDR = EDR Verified

Database Code(s)

Site

SOUTHERN PACIFIC-\$100226863

cont...

Date Spilled: 06/07/88
Chemical: DIESEL
Quantity: Not Reported
Date Cleaned: Not Available

Status:

No action taken by principle party after

initial report of leak.

\*STATE ARCHITECT-BAY BRIDGE

BAY BRIDGE OAKLAND, CA

EDR ID: \$100207079

\*TIDEWATER BUSINESS PARK

0,8

0

TIDEWATER
OAKLAND, CA

EDR ID: \$100226901

LUST

Facility ID: Not Available
Date Spilled: 01/29/90
Chemical: WASTE OIL
Quantity: Not Reported
Date Cleaned: Not Available

Status:

No action taken by principle party after

initial report of leak.

Database Codes

I = FINDS N = NPL TRIS E = ERNS A = CAL-SITES RCRIS-TSDF 0 = CORTESE T = B = PADS F = NOTIFY 65 K = LUST L = SWF/LS P = TOXIC PITS UST C = CERCLIS G = RCRIS-SQG H = SHWS M = CHMIRS Q = RCRIS-LQG χ = TSCA 0 = HMIRS

Geocoding Accuracy:

EDR = EDR Verified

BF = Block Face

Site		Database Code(s)				
*UNKNOWN E 14TH ST/HAVEN CT OAKLAND, CA EDR ID: S100207077		O				
*UNKNOWN 11TH ST OAKLAND, CA EDR ID: S100226622		0,K				
Date Cleaned: Not a	5/88 INE Leported	le party after				
*UNKNOWN E 14TH ST/HAVENSCOUR OAKLAND, CA EDR ID: S100226754		к				
Facility ID: Not A Date Spilled: 11/05 Chemical: MISC	/87					
Database Codes						
A = CAL-SITES B = PADS C = CERCLIS D = HMIRS	E = ERNS F = NOTIFY 65 G = RCRIS-SQG H = SHWS	I = FINDS K = LUST L = SWF/LS M = CHMIRS	0 = 0 P = 1	NPL CORTESE FOXIC PITS RCRIS-LQG	S = T = U = X =	RCRIS-TSDF UST
Geocoding Accuracy:						
EDR = EDR Verif	ied BF = B	Block Face	cu	JS = Custom	er Pro	vided Lat/Long

Code(s)

Database

Site

UNKNOWN-\$100226754

cont...

Quantity: Not Reported
Date Cleaned: Not Available

Status:

No action taken by principle party after

initial report of leak.

Database Codes

A = CAL-SITES E = ERNS I = FINDS N = NPL S = TRIS

B = PADS F = NOTIFY 65 K = LUST O = CORTESE T = RCRIS-TSDF

C = CERCLIS G = RCRIS-SQG L = SWF/LS P = TOXIC PITS U = UST

D = HMIRS H = SHWS M = CHMIRS Q = RCRIS-LQG X = TSCA

Geocoding Accuracy:

EDR = EDR Verified BF = Block Face C

## APPENDIX C

# INFORMATION OBTAINED FROM THE CITY OF OAKLAND FIRE DEPARTMENT

## CITY OF OAKLAND

Tank Permit

Permit to Excavate and Install, Repair, or Remove Inflammable Liquid Tanks. No. 9228 Oakland, California, \_\_\_\_\_APILL 4, PERMISSION IS HEREBY GRANTED TO X Initial remove X pepair Gasoline tank and excevate commencing \_\_\_\_\_feet inside roperty line Street Avenue150' on the ROUTH side of High Street foot of 111 zh Street House No. 752 High Street Avenue Present Storage.... Owner Roy Hatton Address 22935 Valley View Dr. Phone 537-5240 Applicant Jack Quarle/John Pratt Address 5835 Doyle Drive Ste. 107 Number of Tanks 4.000 Capacity 4.000 Remarks: tanko filled with ground nater 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 Drainage Division Engineering Dept. **EXCAVATING PERMIT** HIGH ST Issued in accordance with Ord, No. 278 CMS, Sec. 6-2.04 \_\_square fast of digging or removal granted. CERTIFICATE OF TANK AND EQUIPMENT INSPECTION The receipt of \$\_\_\_\_\_special deposit is hereby acknowledged. Inspected and passed on OON GENERAL DEPOSIT. BUREAU OF PERMITS AND LICENSES. Fire Marshal NOTICE Before Covering Tanks, Above Certificate Must Be Signed. Received by D. Clemons When ready for inspection notify Fire Prevention Sureau, 273-3851 THIS PERMIT MUST BE LEFT ON THE WORK AS AUTHORITY THEREFOR.

1988 BUSINESS TAX RECEIPT CITY OF DAKLAND

RECORDS			
J. Quarle 4A 5835 Doy Emeryville	ssociates le St., 10.	5/2/84	
Tax Hate 1989 K	FG, FE	E	TOENTS
1.11 1988 TAX 1.11 1988 HEIS FEU	\$	30	
2. Penalty # DEUNQUERT 10% -25% -66%	Ş.		<del> </del>
3. Prior Anxion Disc	\$		<u> </u>
4. 1% Sper month Interest if Delengant	\$		
ENTER POTAL LINES 1-4	r <sub>j</sub>	30	
Processed by	The L	Min	re
	5835 Poy EmeryVIIIe  Lax Rate	1.11 1998 TAX 1.11 1998 TAX 2. Penalty #LDFLINQUENT 3. Pror Anxwel Disc 4. 195 per morals 4. Interviolat Listes 1-4 5. Interviolat Listes 1-4 5. Interviolat Listes 1-4 5. Interviolat Listes 1-4 5. Interviolat Listes 1-4 6. Interviolation 1.	5835 Poyle St. 572184  Emeryville, CA 24608  Lac Bate 1989 RFG, FEE  1. Cl. 1980 TAX 1. Cl. 1980 TAX 1. Cl. 1980 TAX 2. Provide of FEE  3. Provide of December 1980 3. Provide of December 1980 4. 1985 per morally 1980 St. 1985

•	City of Oakland	
i.	City of Oakland	
1	CASH RECEIPT	٠

Cash Receipt # 612462

Cash Receipt Voucher # C:R: 1 1 1 1

Cash 🛄 Check 🔀

item		Fund/SF	Organization	Account	Proj/Grant/ Goet Ctr/WO	r Loc	Task	Dept Specific	Fixed Asse	et No Trai	ns Revenue Source	Amount	<del></del>
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# DEPARTMENT OF ENVISONMENTAL HEALTH IN 12 INK. 470 - 27th Street, Hind Floor Telephone: (3:5) 674-7237 Oalt in J. CA 9 1612

able and or ettally most the requirements of State and local lealth law. Changes to your plans indicated by this Deportment or to example riph air sits firsts and their

There plans have been neviewed and found to be accompt-

One copy of these accepted plans mort be on the FFL and aveilable to all contractors and enalismen involved with Any of the month authors of there plans and openitionfrans

the primoval.

lows. The project proposed berein is resourched by the same

ance of each just d builds or permits for societaction.

## ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY DEPARTMENT OF ENVIRONMENTAL HEALTH HAZARDOUS MATERIALS DIVISION 80 SWAN WAY, ROOM 200

HONE TO BE A STAND THERE IS A FINANCIAL PENALTY FOR NOT THERE IS A FINANCIAL PENALTY FOR THE PENALTY Runtfany ferir to a freperterent by determine of such ment because in the Post Secretarist and to the Eine and Marty mis Disparent of that AB hours prior to the DENO 1 of a parent chasps in a library purences of State and local laws. following required haps dions:

# UNDERGROUND TANK CLOSURE/MODIFICATION PLANS

1.	Business Name Roy Hatton Project
	Business Owner Roy Hatton
2.	Site Address
	City <u>Oakland, California 94686</u> Zip 94606 Phone 415-537-5840
3.	Mailing Address 22985 Valley View drive
	City Oakland, California Zip 94541 Phone 415-537-5840
4.	Land Owner Roy Hatton
	Address 22985 Valley View DriveCity, State Oakland, CA Zip 94541
5.	EPA I.D. No. CAC 000151861
	Contractor Ed Pearson Construction Company
	Address 1577 Aborn Road
	City San Jose, California 95121 Phone 408-238-8151
	License Type General A ID# 38781
7.	Consultant J. Quarle' & Associates
	Address5835 Dovle Drive Suite 107
	City Emeryville, California 94608 Phone 415-537-7411

8.	Contact Person for Investigation
	NameJack Quarle' TitleProject Manager
	Phone 415-547-7411
9.	Total No. of Tanks at facility 5
10.	Have permit applications for all tanks been submitted to this office? Yes $\begin{bmatrix} \chi \end{bmatrix}$ No $\begin{bmatrix} 1 \end{bmatrix}$
11.	State Registered Hazardous Waste Transporters/Facilities
	a) Product/Waste Tranporter
	Name H&H Ship Service Co. Inc. EPA I.D. No. CAD004771168
	Address 220 China Basin Drive
	City San Fransisco State CA Zip 94107
	b) Rinsate Transporter
	Name HaH Ship Service Co. Inc. EPA I.D. No. CAD004771168
	Address 220 China Basin Drive
	City San Fransisco State CA Zip 94107
	c) Tank Transporter
	Name H&H Ship Service Co. Inc. EPA I.D. No. CAD004771168
	Address 220 China basin Drive
	City San Fransisco State CA Zip 94107
	d) Tank Disposal Site
	Name H&H Ship Service Co. Inc. EPA I.D. No. CAD004771168
	Address 220 China Basin Drive
	City San Fransisco State CA Zip 94107
	e) Contaminated Soil Transporter
	Name EPA I.D. No
	Address
	City State Zip
	CICY

		State CA Zip 9460	8 Phone 415-547-74
City	Emeryville		
3. Sampli	ng Information for ea	ach tank or area	
	Tank or Area	Material sampled	Location & Depth
apacity	Historic Contents (past 5 years)		1 1 1
500	Unknown	Sludge	Unen both soil macks
6,000	Water	Water	at top "
			22' at bottom
2,500	Unknown	Sludge	10
6,000	Water	Water	6' at top 22' at bottom
6,000	Water	Water	6 / at top
		1	
	anks or pipes leaked , describe All 6,		••
If yes water. The water.		000 gallon tanks hawas made of wood an	No [ ] ve filled with ground d was filled with gro
If yes water. The water.	, describe All 6, ne 2,500 gallon tank	000 gallon tanks hawas made of wood and ering tank inert? Y	No [ ] ve filled with ground d was filled with gro
If yes water. The water.  NFPA me If yes  An exp.	describe All 6, ne 2,500 gallon tank ethods used for rende describe. Dry ice.	000 gallon tanks hawas made of wood and ering tank inert? Y	No []  ve filled with ground d was filled with gro es [X] No []
If yes water. The water.  NFPA me If yes  An expitank in	describe All 6, ne 2,500 gallon tank ethods used for rende describe. Dry ice.	000 gallon tanks hawas made of wood and ering tank inert? Y	No []  ve filled with ground d was filled with gro es [X] No []
If yes water. The water.  NFPA me If yes  An expitank in tank in tank in tank in the second s	describe All 6, ne 2,500 gallon tank ethods used for rende describe. Dry ice. tosion proof combustinertness.	was made of wood and ering tank inert? Y	No []  ve filled with ground d was filled with gro es [X] No []
If yes water. The stank in the	describe All 6, ne 2,500 gallon tank ethods used for rende describe. Dry ice.  Losion proof combustinertness.  cories  Brown and Caldwell	was made of wood and ering tank inert? Y	No []  ve filled with ground d was filled with gro es [X] No []
If yes water. The stank in the	describe All 6, ne 2,500 gallon tank ethods used for rende describe. Dry ice. tosion proof combustinertness.	was made of wood and ering tank inert? Y	No []  ve filled with ground d was filled with gro es [X] No []

12. Sample Collector

# 17. Chemical Methods to be used for Analyzing Samples

Contaminant Sought	EPA, DHS, or Other Sample Preparation Method Number	EPA, DHS, or Other Analysis Number
CHLORINATON) SOLUENTS	·	TPH AS DIESEL  GGFID (5030)  BTEX 8020/8240 SOIL  602/624 WATER
STE OIL OR?		THE AS DIESEL & GAS GCFID (5030) OIL & GREASE 503 DEE 503 AGE
18 Submit Site S	afoty Plan	BTEX 2020/8240 602/620 CLHC 2010/8240 601/620 TCAP FOR METALS CD, CR, PD, ZN

- 18. Submit Site Safety Plan
- 19. Workman's Compensation: Yes [X] No []

  Copy of Certificate enclosed? Yes [X] No []

  Name of Insurer WINN CO. INSURBICE BROKERS
- 20. Plot Plan submitted? Yes [★] No [ ]
- 21. Deposit enclosed? Yes [✗ No [ ]
- 22. Please forward to this office the following information within 60 days after receipt of sample results.
  - a) Chain of Custody Sheets
  - b) Original Signed Laboratory Reports
  - c) TSD to Generator copies of wastes shipped and received
  - d) Attachment A summarizing laboratory results

I declare that to the best of my knowledge and belief the statements and information provided above are correct and true. I understand that information in addition to that provided above may be needed in order to obtain an approval from the Department of Environmental Health and that no work is to begin on this project until this plan is approved.

I understand that any changes in design, materials or equipment will void this plan if prior approval is not obtained.

I understand that all work performed during this project will be done in compliance with all applicable OSHA (Occupational Saftey and Health Administration) requirements concerning personnel and safety.

I will notify the Department of Environmental Health at least two (2) working days (48 hours) after approval of this closure plan in advance to schedule any required inspections. I understand that site and worker safety are solely the responsibility of the property owner or his agent and that this responsibility is not shared nor assumed by the County of Alameda.

Signature of Contractor  JACK QUARLE
Name (please type)
Signature / Aufl Live Co.
Date 3-8-89
Signature of Site Owner or Operator
Name (please type) ROY HATTON
Signature Kay Hattour
Date 3:8-44

J. QUARLE' & ASSOCIATES
5835 Doyle Drive Suite-107
Emeryville, California 94608
(415)-547-7411 Fax (415)-547-7422

Company Name:

#### AN ENVIRONMENTAL SERVICES COMPANY

#### MINIMUM SITE SAFETY PLAN

Roy Hatton, John Bacon

Company Address: 22985 Valley View Dr. Hayward, CA 94541

Site Name: Hatton, Bacon Project

Site Address: 752 High Street / Oakland, CA 94606

Job Number: 100-100-100

Approximate Date Work To Begin: 4/5/89

SITE INFORMATION

Industry Type: User
(Retailer, User, Distributer)

Number Of Underground Tanks: 5

Number Of Grades:

Suspected Contaminants: 1) Casoline

2) Diesel

4) Waste Dil

5) Delwels

Comments: Under investigation now.

J. Quarle' & Associates Initial Scope Of Work: Remove five underground tanks. One tank made of wood. One tank made of concrete. Three vertical tanks made of steel.

#### EMERGENCY CONTACTS

Police And/Or Fire: Dial 911

Site Manager: Jack Quarle'

Phone Number: 415-547-7411

Froject Manager: Jack Quarle'

Phone Number: 415-547-7411

Health And Safety Officer: Norman Herrold

Phone Number: 415-547-7411

Client Contact: Roy Hatton, John Bacon

Phone Number: 415-261-4981

Regulator: Alameda County Environmental Health

Phone Number: 415-271-4320

Hospital Number: Peralta Hospital

Phone Number: 415-451-4900

Poison: San Francisco Poison Control Center

Phone Number: (415)-476-2845

EPA / Phone Number: (800)-424-8802

J. Quarle' & Associates / Phone Number: (415)-547-7411

#### RECOMMENDED HEALTH AND SAFETY PROCEDURES

Level "D" is assumed unless contrary evidence is available. All personnel shall wear safety shoes, and possess eye goggles, hard hat, disposable coveralls, rubber gloves, (2) fire extinguishers, first aid kit, and half face respirator with organic vapor cartridges.

Should site conditions change to level "C" then J. Quarle' & Associates Project Manager is instructed to contact Site Manager and Health and Safety Officer and change status of project to the appropriate level of safety.

If substantial contamination is found then all J. Quarle' & Associate personnel will pull back away from the contaminated area until the situation can be assessed from a Health and safety stand point.

Copies of this will be filled out by Project Manager and forwarded back to Jack Quarle' for review and approval.

An explosimeter will be provided by the contractor to check the levels in the tanks before they are removed.

Submitted By:	Date:
7 (00-0)-1- 1-0-0-0-1	Date:
J. Quarle's Approval:	Date:

If you have any further questions concerning Health and Safety at this job location please feel free to contact Jack Quarle' at (415)-547-7411.

If further information is needed to process this for permit approval please contact a representative at our firm and we will provide the necessary information to complete the application. Sincerely,

J. QUARLE' & ASSOCIATES

Jack Quarle'

# 

ISSUE DATE (MM/DO/YY)

3-16-89

PRODUCER

NSURED

WINN & CO. INSURANCE BROKERS 220 P.O. BO 95024-0220 HOLLISTER, CA

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ED PEARSON CONSTRUCTION

1577 ABORN ROAD

SAN JOSE, CA

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

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COMPANY (SAN BRUNO) C.N.A. LETTER

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THIS IS TO CERTIFY THAT POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS, AND CONDITIONS OF SUPPLY AND LOTES. TIONS OF SUCH POLICIES.

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ALL CALIFORNIA OPERATIONS

J. QUARLE & ASSOCIATES 5835 DOYLE ST. #107 EMERYVILLE, CA. 94608

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SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EX-PIRATION DATE THEREOF. THE ISSUING COMPANY WILL ENDEAVOR TO MAIL 10 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO MAIL SUCH NOTICE SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPOIL FIRE COMPANY, ITS AGENTS OR REPRESENTATIVES AUTHORIZED REPRESENTATIVE

# HATTON, BACON PROJECT 752 HIGH STREET OAKLAND CC550 GALLON CONCRETE TRABL 510 2.500 GALLON WOODEN TANK 198 8000 CALLOW UNDERGROUND LANKS € 103' HIGH STREET OAKLAND, CALIFORNIA

# APPENDIX D REPORTS FROM EARTH METRICS

#### TANK REMOVAL

AND

### LIMITED SOILS CHEMISTRY ANALYSIS

ED's AUTO PARTS

752 HIGH STREET

OAKLAND, CALIFORNIA

Prepared for:

MR. JOHN BACON AND MR. & MRS. ROY HATTON

September 4, 1990

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Prepared by:

EARTH METRICS INCORPORATED 2855 Campus Drive, Suite 300 San Mateo, CA 94403 (415) 578-9900

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#### 1. EXECUTIVE SUMMARY

This report presents the results of the excavation of underground storage tanks, fuel lines, and soil at Ed's Auto Parts, 752 High Street, Oakland, California. This work was conducted at the request of Mr. John Bacon and Mr. & Mrs. Roy Hatton to evaluate potential hydrocarbon contamination of the soil beneath the site. Work conducted by Earth Metrics Incorporated at the site included:

- (1) Reviewing data from previous work;
- (2) Collecting and analyzing soil samples from the two storage tank pits, and seven stockpiles of tank pit soil;
- (3) Collecting and analyzing data on groundwater samples;
- (4) Removing 1,500 gallons of fluid from the small tank pit;
- (5) Sampling and analyzing soil samples collected from the tank pits;
- (6) Analyzing excavated soil with a photoionization detector and directing placement of stockpiled soil on the site; and
- (7) Sampling and analyzing the stockpiled soil.

#### BACKGROUND INFORMATION

On April 4, 1989, three underground solvent storage tanks were excavated and removed from the site. It is Earth Metrics' understanding that the solvent storage tanks had a 3,000-gallon capacity and we understand they were used to store stoddard solvent on site. It is also our understanding that the tanks had not been used for the last 20 years, since the dry cleaning establishment that was located there was closed down. The total depths of the solvent-storage tank pits were approximately nine to 19 feet.

At the time of the tank pulls, an employee of Jack Quarle and Associates examined the tank surfaces and the fuel lines for signs of leakage. The Jack Quarle and Associates employee reported that bottoms had rusted out of the tanks. Because the tanks had not held any solvent for a long period of time, the tanks could have rusted out without releasing any chemical or impacting the groundwater. A geologist from Earth Metrics did not notice any hydrocarbon odor emanating from the solvent storage tank pit. The Earth Metrics geologist saw no obvious signs of soil discoloration or sheen on the water in the tank pits.

At the time of the tank pulls, native soil in the sidewalls of the solvent storage tank pit, adjacent to the ends of each tank, was sampled and analyzed by a state-certified laboratory for hydrocarbon concentrations. The tank pits were resampled by Earth Metrics in August 1990 because reporting of initial sampling was not accomplished by Jack Quarle and Associates.

At the time of the tank pulls, groundwater from a well directly downgradient was sampled and analyzed. No Total Petroleum Hydrocarbon was detected in the

water samples after the well was purged. No Total Petroleum Hydrocarbon was detected in the soil when the well was drilled. This well is with in 15 feet downgradient of the tank pit. The results of laboratory analysis of the groundwater collected from the well directly downgradient from the tank pits suggest that hydrocarbons are not concentrated in the groundwater.

#### CURRENT ANALYSIS

In, August of 1990, further sampling for solvent-contaminated soil was performed on the tank pits and stockpiles on the subject site. The laboratory results indicated the presence of petroleum hydrocarbon-contaminated soil in the stockpiles. Soil samples collected for the solvent storage tank pit showed concentrations of Total Petroleum Hydrocarbon as Diesel (TPHd) to be nondetectable or trace.

The laboratory soil results indicate that much of the petroleum hydrocarbon-contaminated soil in the solvent storage tank pit walls has been excavated.

Field testing with an photoionization detector (PID) was used to help indicate the extent of hydrocarbon contamination of the excavated soil. The soil excavated from the tank pit showed PID readings from zero ppm to 10 parts per million (ppm) of organic vapor. The PID indicated approximately zero ppm of organic vapor in soil in the west tank pit.

Discrete samples were collected from the stockpiled soil. The sample data indicate that the soil can not be disposed of as is at a Class III landfill. The option available to Mr. John Bacon and Mr. & Mrs. Roy Hatton are: i) to bioremediate the soil, and then off-haul to a Class III or to a Class II landfill, and ii) to bioremediate and reuse the soil on site.

We recommend Ed's Auto Parts submit copies of this report to Steve Luquire of the California Regional Water Quality Control Board, San Francisco Bay Region. 1111 Jackson Street, Room 6040, Oakland, California 94607; Mr. Arui Levi of the Department of Environmental Health, 80 Swan Way, Room 200, Oakland, California, 94621, and Mr. Steve Hallert, Fire Inspector, 421 14th Street, Oakland, California.

#### 2. INTRODUCTION

At the request of Mr. John Bacon and Mr. & Mrs. Roy Hatton, Earth Metrics Incorporated investigated the removal of three underground solvent storage tanks, one waste-oil tank, and excavation of soil at ED's Auto Parts in Oakland, California. The purpose of the work was to investigate for hydrocarbon contamination of soil and groundwater at the site. Work for this investigation included:

- (1) Reviewing data from previous work;
- (2) Collecting and analyzing soil samples from the two storage tank pit, and seven stockpiles of tank pit soil;
- (3) Collecting and analyzing data on groundwater samples;
- (4) Removal of 1,500 gallons of fluid from the small tank pit;
- (5) Sampling and analyzing soil samples collected from the tank pits;
- (6) Analyzing excavated soil with a photoionization detector and directing placement of stockpiled soil on the site; and
- (7) Sampling and analyzing the stockpiled soil.

This report describes these activities and presents results of laboratory analyses, conclusions, and recommendations.

#### SITE DESCRIPTION

The site is located at 752 High Street in the City of Oakland, California. Previously, a dry cleaning operation existed on the site. The owners of the dry cleaning operation installed three tanks for clean solvent and a redwood tank for spent solvent and sludge. The property was then sold to Mr. and Mrs. Roy Hatton, who used the property for Ed's Auto Parts as a salvage yard. The site is located near at least three sites which have had spills of hazardous substances in the past: Clorox (approximately 500 feet to the northeast); the Southern Pacific property (adjacent and to the east); and the Exxon station (adjacent and to the west).

The larger of the two pits was not stained and no floating product was seen. The smaller of the two pits was stained black and had noticeable algal growth. There was a brick-like structure (a possible well) next to the smaller pit, when access was gained to this structure it was full of charred glass.

The stockpiles were measured to estimate their volume. The stockpiles from the tank pits are piled up in the back of the site and partially covered with plastic. The total volume of the piles is estimated at 400 cubic yards. The stockpiles did not have significant stains or odor. Due to the length of time that the stockpiles have remained on site, there should not be significant volatile hydrocarbons left near the surface of the stockpiles.

The stockpiles were sampled in 32 discrete location at four feet under the surface. To obtain a sample a hand auger was used first to bore a hole down to four feet. Then a slide hammer was used to obtain the sample. The sample location can be found on Figure B-1.

Well data was gather from Applied GeoSystems with the permission of the Exxon Corporation. Well MW-9 was drilled directly downgradient and less than 15 feet from the tank pit. This well is still being monitored on a regular bases.

#### SITE SAFETY PLAN

Earth Metrics Incorporated performed work at the site, on behalf of ED's Auto Parts, in accordance with Earth Metrics' Site Safety Plan. This safety plan describes the basic safety requirements for the subsurface environmental investigation and excavation of the tanks. The Site Safety Plan was applicable to personnel and subcontractors of ED's Auto Parts, and subcontractors of Earth Metrics scheduled to perform work at the site were briefed on the contents of the Site Safety Plan each day before work began. A copy of the Site Safety Plan was kept at the site and was available for reference by appropriate parties during work. The staff geologist of Earth Metrics acted as the Site Safety Officer.

#### 5. WELL DATA

There is a well directly downgradient from the previous location of the underground storage tanks. The well is less than the required 15 feet from the tank pit and is properly screened. This well was tested on April 20, 1990, and found to have no total petroleum hydrocarbon as diesel, no total petroleum hydrocarbon as gasoline and no BTEX contamination in the groundwater. When this well was drilled, no petroleum hydrocarbon as diesel or gasoline was found in the soil at a depth of nine feet. Therefore, at the time the well was tested the groundwater was not impacted by the tanks that were located at ED's Auto Parts. Since the groundwater is not impacted, no well needs to be installed at 752 High Street. The sampling data, well logs, and well location map can be found in the Appendix C. A gradient map of the area can be found in Appendix C, Figure C-1.

#### 6. TANK AND FUEL LINE REMOVAL AND EXAMINATION

Personnel from Jack Quarle and Associates were on site on April 10, 1990, to observe excavation and removal of three underground solvent storage tanks and associated lines. Mr. Roy Hatton contracted Jack Quarle and Associates of Emeryville, California to perform the removal work.

Jack Quarle and Associates excavated the backfill material to remove the tanks and lines. This work was performed using a backhoe. The tanks were lifted from their cavities and inspected. Earth Metrics personnel were not at the tank extraction.

Jack Quarle and Associates personnel examined the outer surface of each tank for signs of leakage, holes, pitting, or areas of weakness. Signs of weakness were detected in the tanks. After the examinations, H&H Ship Service of San Francisco, California removed the tanks from the site and transported them to their salvage facility in San Francisco.

#### 7. EXCAVATION OF SOIL

Vertical excavation of the solvent storage tank pit was stopped at approximately 20 feet below grade. Excavation of soil was stopped at about five feet from the garage.

The soil removed from the excavations was stockpiled at the site in April 1989. The soil was sampled by Jack Quarle and Associates, but sufficient data to determine the condition of the stockpile was never forthcoming from Jack Quarle and Associates.

#### SOIL SAMPLING AND EVALUATION

#### PIT AND FUEL LINE TRENCH SOIL

The backfill material in the solvent storage tank pit and the waste-oil-storage tank pit consisted of clay with some sands and gravel. The native soil encountered underlying the pits and the fuel line trenches was a silty clay with sand and gravel lenses.

Figure 1 shows where the soil samples were collected from the pits. A total of 10 soil samples were collected from the sidewalls of the solvent storage tank pit, adjacent to the ends of each tank. The geologist did observe soil contamination in the solvent-storage tank pit. However, the geologist did not notice any product odor emitting from the solvent storage tank pit.

Samples were collected from the pits by driving a clean brass sleeve into the soil in the tank pit. Samples were promptly sealed with aluminum foil, plastic caps, and tape. The sealed samples were labeled and placed in iced storage for transport to the testing laboratories. Chain of Custody records for the samples were completed upon delivery to the laboratories, and copies of these forms are included in Appendix A of this report.

#### STOCKPILED SOIL

A Photoionization Detector (PID) was used to evaluate the organic vapor concentration emitted from the stockpiled soil. Readings were collected by placing the intake probe against the stockpiled soil after removing approximately six inches to one foot of soil. This procedure was followed so that the samples would be representative of the stockpile, rather than the surface soil that may have become partially aerated.

Stockpiled soil showed PID readings ranging from zero ppm to 20 ppm. PID readings of soil excavated from the solvent storage tank pit and from the waste-oil storage tank pit indicated less than one ppm organic vapor.

Measurements from instruments like the PID indicate relative organic vapor concentrations, but cannot measure concentrations of hydrocarbons with the precision of laboratory analysis or hydrocarbons that do not vaporize. To measure the concentration of hydrocarbon such as diesel or stoddard solvent in a soil sample the laboratory must first extract the contamination from the soil.

Soil samples from the stockpiles were collected after digging three to five feet into the stockpiles with a hand auger. A hand-held impact sampler, lined with a clean brass sleeve, was driven into the stockpiled soil to collect samples. Each brass sleeve was sealed, placed on ice, and transported to Sequoia Analytical laboratory in Redwood City, California. The Earth Metrics geologist initiated a Chain of Custody record and a copy of which is included in Appendix A.

Samples of the stockpiled soil were collected on two occasions. Figure B-1 shows where the 32 samples were collected from the stockpiled soil on July 13, and August 3, 1990. In the laboratory, the 32 samples were not made into composite samples. The soil samples were not composited so that the stockpiles could be accurately sorted on the bases of the contamination level. The stockpiles do not seem to sorted as to clean or dirty and there are no stockpiles that could readily be placed back into the tank pits. Eventhough the stockpile material was aerated, by a previous consultant, this type of contamination does not volitlize and, therefore, will not dissipate by simple aeration. The results of the sampling of the stockpiles can be seen in Table 1. The Chain of Custody and laboratory data sheets can be found in the Appendix. A map which indicates the location of the stockpiles is in the Appendix B, Figure B-1.

The soils that are found in the stockpiles have total petroleum hydrocarbon concentrations above the 10 parts per million, which is the standard that is set fourth by the Regional Water Quality Board for soil to be used as back fill. This means that this soil must be bioremediated below the 10 ppm before it could be placed back into the tank pits. The cost of remediation would be less than the cost of removal and disposal (see Appendix B for the cost estimate table).

At the treatment level of 100 parts per million (ppm) Total Petroleum Hydrocarbon the soil could, at the discretion of the owner, be disposed at a Class III sanitary landfill. At the further treatment level of 10 ppm Total

TABLE 1. RESULTS OF SAMPLING AND SOIL ANALYSIS FOR STOCKPILES OF SOIL AT ED'S AUTO PARTS 750 HIGH STREET

S-4-A1 S-4-A2 S-4-A3 S-4-A4 S-4-A5 S-4-A6 S-4-A7 S-4-A8 S-4-B9 S-4-B10	65 77 90 80 53 23 54 47 68 190	PPM
S-4-A3 S-4-A4 S-4-A5 S-4-A6 S-4-A7 S-4-A8 S-4-B9 S-4-B10 S-4-B11	90 80 53 23 54 47 68 190	PPM PPM PPM PPM PPM PPM PPM PPM PPM
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S-4-B12	410	PPM
S-4-B13	77	PPM
S-4-B14	130	PPM
S-4-B15	120	PPM
S-4-C16	140	PPM
S-4-C17	220	PPM
S-4-C18	160	PPM
S-4-C19	94	PPM
S-4-D20	43	PPM
S-4-D21	43	PPM
S-4-E22	110	PPM
S-4-E23	56	PPM
S-4-F24	95	PPM
S-4-F25	77	PPM
S-4-H24		PPM
S-4-H25		PPM
S-4-H26	230	PPM
S-4-H28	120	PPM
S-4-H26A	310	PPM

ND = no compounds detected above the analytical detection limit; see laboratory reports in Appendix for list of specific compounds tested for.

Sample designation: S-4-H25

Stockpile and Location - Sample depth in feet —Type of sample S = Soil

Petroleum Hydrocarbon or lower, the soil could be reused on site. Without any treatment, the soil is considered as a hazardous waste and would require cost-prohibitive disposal.

The stockpile soils were tested for Benzene, Toluene, Ethylbenzene, and, Xylenes after the soil was aerated and no Benzene, Toluene, Ethylbenzene, and Xylenes were detected.

#### TANK PIT SOIL SAMPLES

Samples from the solvent storage tank pit were taken by attaching a extension to a hand auger removing about one foot of soil, and then attaching the extension to the hand-held impact samples and reaching down to a level just above the water line. Samples were then taken at that location. Samples were collected from the pits by driving a clean brass sleeve into the soil in the tank pit. Samples were promptly sealed with aluminum foil, plastic caps, and tape. The sealed samples were labeled and placed in iced storage for transport to the testing laboratories. The samples were then taken to Sequoia Analytical Laboratory and analyzed for total petroleum hydrocarbon fuel as diesel. The samples came back with little or no contamination found in them. It is our understanding that the tanks have not been used for the last 20 years and, therefore, if the tanks have had a problem, the hydrocarbon contamination has had a substantial time to move away from the site or undergo natural bioremediation. Results of the tank pit samples can be found in Table 2. The Chain of Custody and laboratory data sheets can be found in Appendix A.

The small tank pit was purged of over 1,500 gallons of water. The water was manifested, removed, and disposed of by H&H Ship Service Company. The water was tested and disposed of properly. The manifest for disposal can be found in Appendix B.

TABLE 2. RESULTS OF SAMPLING AND SOIL ANALYSIS FOR TANK PITS AT ED'S AUTO PARTS 750 HIGH STREET

SOIL DESCRIPTION	HIGH B.P. HYDROCARBON (PPM)								
1TP-8-S	ND PPM								
1TP-8-N	ND PPM								
1TP-8-E	3.9 PPM								
1TP-8-W	4.9 <b>PPM</b>								
1TP-8-SW	17 PPM								
1TP-8-SE	5.7 P <b>PM</b>								
2TP-8-S	17 PPM								
2TP-8-N	12 PPM								
2TP-8-E	15 PPM								
2TP+8-W	11 PPM								
Results in parts per million (ppm).  TOG = Hydrocarbon as diesel (EPA Method 8015).  ND = no compounds detected above the analytical detection limit; see laboratory reports in Appendix A for list of specific compounds tested for.  Sample designation: 2TP-8-W  Location in the pit — Sample depth in feet — Tank Pit tested									

These samples show that no further excavation of the tank pits is required at this location.

#### 11. RECOMMENDATION FOR FURTHER WORK

#### Earth Metrics recommends:

- That the soil on the project site be spread over an impermeable barrier such as visquene plastic.
- That bacteria be cultured to grow in the soil.
- That the bacterial growth be maintained by watering the soil.
- That the soil be sampled until the hot spots are below 10 parts per million (ppm).
- That the soil be tested to contain less than 10 ppm Total Petroleum Hydrocarbon be placed back in the tank pits or used elsewhere on the subject site.
- At the discretion of the owner, treated soil containing less than 100 ppm can be disposed of at an accepting Class III sanitary landfill at any time prior to treatment to lower the level to 10 ppm.
- That when the soil is placed back into the tank pits the soil should be compacted as described by American Standards of Testing and Measurement.

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Rue	~	Ower			3/90 PA	Received by:Signate	ure   Date/	Date/Time REMARKS:									
<b></b>		by:Signa	<del></del>	1		Received by:Signat	ure Date/	Time									
Relingu	uished	by:Signa	ture	De	ite/Time	Received by:Signat	EARTH METRICS INCORPORATED 2855 Campus Drive Suite 300  San Mateo, CA 94403										

PROJ. N 1063	2.A	MECT NAP	1E				NO OF CON-		7	7	/	7	1	1	77/	/ <sub>R</sub>	EHARKS
SAMPLERS: Signature						TAINERS	/	/ /	/	/	/	/	/	//			
TA NO	DATE		COMP.	GRAB		STATION LOCATION		//	/	/			$^{\prime}/$	$^{\prime}/$			
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errudi	ulshed	by:Signa	ture	Da	te/Time	Received by:Signatu	7)	te/Time 2855 Campus Drive Suite 300									



# SEQUOIA ANALYTICAL

680 Chesapeake Drive . Redwood City, CA 94063 (415) 364-9600 • FAX (415) 364-9233

Earth Metrics 2855 Campus Drive San Mateo, CA 94403 Attention: Lucia Owens

Client Project ID: Matrix Descript:

#10632A

Soil EPA 3550/8015

Analysis Method: First Sample #: 008-0995

Sampled: Aug 3, 1990 Received: Extracted:

Aug 6, 1990 Aug 7, 1990 Aug 9, 1990

Analyzed: Reported: Aug 13, 1990

## TOTAL PETROLEUM FUEL HYDROCARBONS (EPA 8015)

Sample Number	Sample Description	High B.P. Hydrocarbons mg/kg (ppm)	
008-0995	S-4-A1	65	
008-0996	S-4-A2	77	
008-0997	S-4-A3	90	
008-0998	S-4-A4	80	
008-0999	S-4-A5	53	
008-1000	S-4-A6	23	
008-1001	S-4-A7	54	
008-1002	S-4-A8	47	
008-1003	S-4-B9	68	
008-1004	S-4-810	190	
	<u> </u>		

etection Limits:

1.0

figh Boiling Point Hydrocarbons are quantitated against a diesel fuel standard. nalytes reported as N.D. were not present above the stated limit of detection.

EQUOIA ANALYTICAL

laile A. McBirney roject Manager

80995.EAR < 1 >



680 Chesapeake Drive • Redwood City, CA 94063 (415) 364-9600 • FAX (415) 364-9233

Earth Metrics 2855 Campus Drive San Mateo, CA 94403 Attention: Lucia Owens

wall grader confidence, was a grad Client Project ID: #10632A Matrix Descript:

Soil

First Sample #:

Analysis Method: EPA 3550/8015 008-1005

Sampled:

Aug 3, 1990 Aug 6, 1990

Received: Extracted:

Aug 7, 1990 Aug 9, 1990

Analyzed: Reported:

Aug 13, 1990

## TOTAL PETROLEUM FUEL HYDROCARBONS (EPA 8015)

Sample Number	Sample Description	High B.P. Hydrocarbons mg/kg (ppm)
008-1005	S-4-B11	110
008-1006	S-4-B12	410
008-1007	S-4-B13	77
008-1008	S-4-B14	130
008-1009	S-4-815	120
008-1010	S-4-C16	140
008-1011	S-4-C17	220
008-1012	S-4-C18	160
008-1013	S-4-C19	94
008-1014	S-4-D20	43

1.0 etection Limits:

gh Boiling Point Hydrocarbons are quantitated against a diesel fuel standard. Analytes reported as N.D. were not present above the stated limit of detection.

GUOIA ANALYTICAL

aile A. McBirney Project Manager

80995.EAR <2>



680 Chesapeake Drive • Redwood City, CA 94063 (415) 364-9600 • FAX (415) 364-9233

Earth Metrics 2855 Campus Drive San Mateo, CA 94403 Attention: Lucia Owens

Client Project ID: #10632A Matrix Descript:

Soil

Analysis Method: EPA 3550/8015

008-1015 First Sample #:

Sampled: Received:

Aug 3, 1990 Aug 6, 1990

Extracted: Analyzed:

Aug 7, 1990 Aug 9, 1990

Reported: Aug 13, 1990

## TOTAL PETROLEUM FUEL HYDROCARBONS (EPA 8015)

Sample Number	Sample Description	High B.P. Hydrocarbons mg/kg (ppm)
008-1015	S-4-D21	43
008-1016	S-4-E22	110
008-1017	S-4-E23	56
008-1018	S <del>-4-</del> F24	95
008-1019	S-4-F25	77
008-1020	S-4-H24	8.7
008-1021	S-4-H25	3.5
008-1022	\$-4-H26	230
008-1023	S-4-H2B	120
008-1024	S-8-TPISW	17

etection Limits:

1.0

gh Boiling Point Hydrocarbons are quantitated against a diesel fuel standard. halytes reported as N.D. were not present above the stated limit of detection.

QUOIA ANALYTICAL

Project Manager

80995.EAR <3>



680 Chesapeake Drive • Redwood City, CA 94063 (415) 364-9600 • FAX (415) 364-9233

Earth Metrics

2855 Campus Drive

Client Project ID:

Row A Crop, #10632A

Sampled: Received: Jul 13, 1990 Jul 13, 1990

San Mateo, CA 94403

Matrix Descript: Analysis Method: EPA 3550/8015

Analyzed:

Jul 20, 1990

Attention: Mark Armstrong

First Sample #:

007-2033

Soil

Reported: Jul 22, 1990

## TOTAL PETROLEUM FUEL HYDROCARBONS (EPA 8015)

Sample Number	Sample Description	High B.P. Hydrocarbons mg/kg (ppm)
007-2033	ПР-8-\$	N.D.
007-2034	ITP-8-N	N.D.
007-2035	:ТР- <del>8-</del> Е	3.9
007-2036	ITP-8-W	4.9
007-2037	2TP-8-S	17
007-2038	2TP-8-N	12
007-2039	2TP-8-E	15
007-2040	2TP-8-W	11
007-2041	S-4-10	16

Detection Limits:

1.0

ligh Boiling Point Hydrocarbons are quantitated against a diesel fuel standard. Analytes reported as N.D. were not present above the stated limit of detection.

EQUOIA ANALYTICAL

Project Manager

72033.EAR <1>



650 Chesapeake Drive • Redwood City, CA 94063 (415) 364-9600 • FAX (415) 364-9233

Earth Metrics 2855 Campus Drive San Mateo, CA 94403 Attention: Lucia Owens

pour comment protestate (Co.). La commentación de la commentación Client Project ID: #10632A Matrix Descript: Soil

Matrix Descript: Soil
Analysis Method: EPA 3550/8015

First Sample #: 008-1025

Sampled: Aug 3, 1990 Received: Aug 6, 1990 Extracted: Aug 7, 1990

Analyzed: Aug 9, 1990 Reported: Aug 13, 1990

## TOTAL PETROLEUM FUEL HYDROCARBONS (EPA 8015)

Sample Number	Sample Description	High B.P. Hydrocarbons mg/kg (ppm)
008-1025	S-8-TPISE	5.7
008-1026	S-4-H26A	310

**Detection Limits:** 

1.0

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Maile A. McBirney Project Manager

80995.EAR <4>

### APPENDIX B

WASTE MANIFEST, COST ESTIMATE, AND MAP OF STOCKPILE SAMPLES

OH: 022 A

Do Not Write Below This Line

Signature

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Rem 19.

Printed/Typed Name

Month Jav Tear

REMOVAL TYPE	COST PER YD	T	TAL COST
BIO REMEDIATION TO BELOW 100 PPM	\$ 20	ş	10,000
REMOVE TO A CLASS : LANDFILL	\$ 7	\$	3,500
TRUCKING COST TO L	ANDFILL	\$	12,500
COST OF NEW SOIL	\$ 5	\$	2,500
TRUCKING COST OF	CLEAN DIRT	\$	12,500
TOTAL COST ESTIMAT	ГЕ	\$	41,000
REMOVE SOIL AND USE THE CONTAMINAT SOIL FOR ROAD FILI NO TAXES OR LIABII	L \$143	\$	71,875
COST OF NEW SOIL		\$	15,000
TOTAL COST ESTIMAT	TE .	\$	86,875
REMOVE SOIL AT THE HYDROCARBON LEVEL NOW PRESENT TO A CLASS 2 DUMP PLUS TAXES AND LIAB COST OF NEW SOIL	BILITY	\$	65,000 15,000
TOTAL COST ESTIMATE		<u> </u>	80,000
COST OF BIOREMEDIAT TO BELOW 10 PPM COST OF CHARACTERIZ	\$ 25	•	12,500 5,000
SUB CONTRACTOR TO B	ACK FILL PIT	<u>\$</u>	<u>6,000</u>
TOTAL COST ESTIMATE	;	\$	23,500

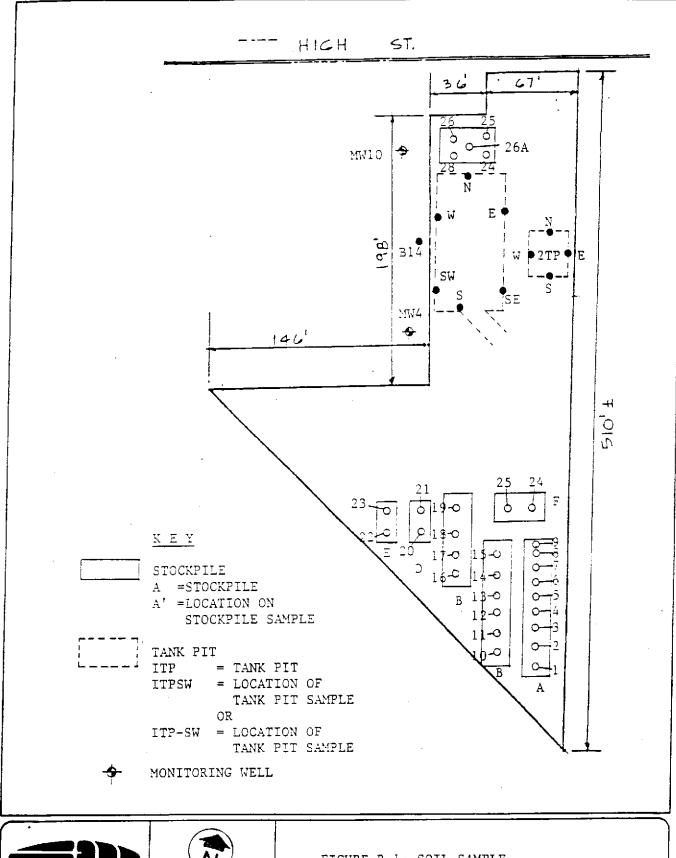






FIGURE B-1 SOIL SAMPLE

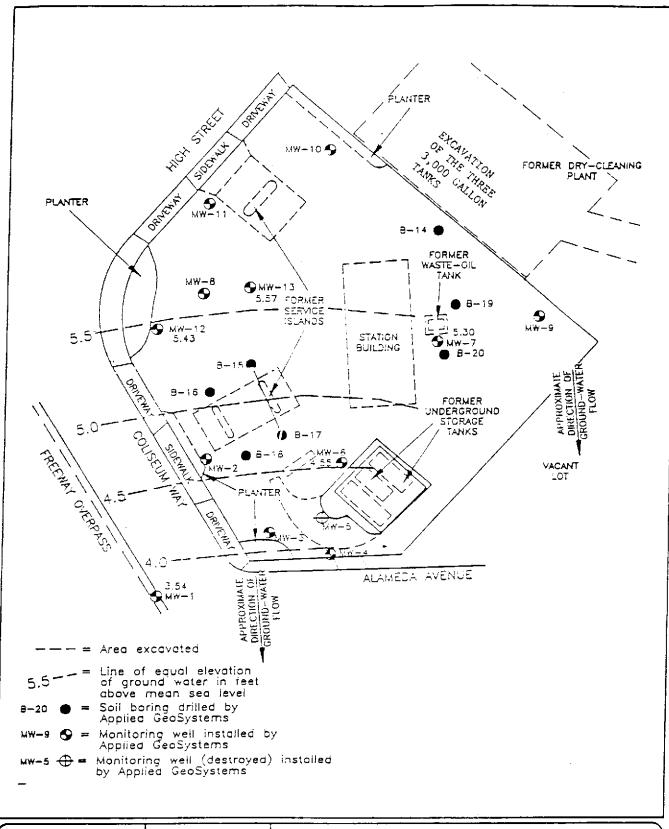






FIGURE C-1 GROUNDWATER ELEVATION MAP

## APPLIED ANALYTICAL

### Environmental Laboratories

3459 Edison Way Fremont, CA 94538 (415) 623-0775

## <u>ANALYSIS REPORT</u>

Attention: Project:	Applied GeoSystems 43255 Mission Boulevard Fremont, CA 94539		Dai BT TPI TPI	Date Sampled: Date Received: BTEX Analyzed: TPHg Analyzed: TPHd Analyzed: Matrix:		04-19-90 04-24-90 04-27-90 04-27-90 04-27-90 Water	
Detection L	.imit:	Benzene ppb 0.50	Toluene ppb 0.50	Ethyl- benzene ppb 0.50	Total Xylenes ppb 0.50	TPHg ppb 20	<b>TPHd</b> <u>ppb</u> 100
SAMPLE Laboratory Ide	entificati	ОE					-
W-9-MW1 W1004187		ND	ND	ND.	ND	ND	N'D
W-12-MW11		ND	ND	,ND	ND	ND	ND

ppb = parts per billion =  $\mu$ g/L = micrograms per liter.

ND = Not detected. Compound(s) may be present at concentrations below the detection limit.

NR = Analysis not requested.

W1004192

### ANALYTICAL PROCEDURES

BTEX—Benzene, toluene, ethylbenzene, and total xylene isomers (BTEX) are measured by extraction using EPA Method 5030 followed by analysis using EPA Method 8020/602, which utilizes a gas chromatograph (GC) equipped with a photoionization detector (PID) and a flame-ionization detector (FID) in series.

TPHg-Total petroleum hydrocarbons as gasoline (low-to-medium boiling points) are measured by extraction using EPA Method 5030. followed by analysis using modified EPA Method 8015, which utilizes a GC equipped with an FID.

TPHd—Total petroleum hydrocarbons as diesel (high boiling points) are measured by extraction using EPA Method 3550 for soils and EPA Method 3510 for water, followed by modified EPA Method 8015 with direct sample injection into a GC equipped with an FID.

Laboratory Representative

05-02-90

## APPLIED ANALYTICAL

### Environmental Laboratories

3459 Edison Way Fremont, CA 94538 (415) 623-0775

## ANALYSIS REPORT

			1020lab.frm
Attention:	Ms. JoEllen Kuszmaul	Date Sampled:	04-20-90
	Applied GeoSystems	Date Received:	04-24-90
	43255 Mission Boulevard	BTEX Analyzed:	04-27-90
	Fremont, CA 94539	TPHg Analyzed:	04-27-90
Project:	AGS 87042-9	TPHd Analyzed:	04-27-90
<b>,</b>		Matrix:	Water

Detection Limit:	Benzene ppb 0.50	Toluene ppb 0.50	Ethyl- benzene ppb 0.50	Total Xylenes ppb 0.50	TPHg ppb 20	TPHd ppb 100
SAMPLE Laboratory identificat	ion					
W-10-MW7 W1004189	220	8.6	7.0	20	2700	3500
W-10-MW9 W1004191	ND	ND	ND	ND	ND	ND
W-9-MW10 W1004195	ND	ND	ND	ND	ND	ND ,

#### ANALYTICAL PROCEDURES

BTEX—Benzene, toluene, ethylbenzene, and total xylene isomers (BTEX) are measured by extraction using EPA Method 5030 followed by analysis using EPA Method 8020/602, which utilizes a gas chromatograph (GC) equipped with a photoionization detector (PID) and a flame-ionization detector (FID) in series.

TPHg-Total petroleum hydrocarbons as gasoline (low-to-medium boiling points) are measured by extraction using EPA Method 5030. followed by analysis using modified EPA Method 8015, which utilizes a GC equipped with an FID.

TPHd—Total petroleum hydrocarbons as diesel (high boiling points) are measured by extraction using EPA Method 3550 for soils and EPA Method 3510 for water, followed by modified EPA Method 8015 with direct sample injection into a GC equipped with an FID.

Laboratory Representative

<u>05-02-90</u>

ppo = parts per billion = ug/L = micrograms per titer.

ND = Not detected. Compound(s) may be present at concentrations below the detection limit.

NR = Analysis not requested.

# CHROMALAB, INC.

Analytical Laboratory Specializing in GC-GC/MS Environmental Analysis

Hazardous Waste

(#238)

Drinking Water

(#955)

Waste Water

Consultation

May 2, 1990 APPLIED GEOSYSTEMS, INC.

Project No.: 87042-9

Detection Limit: 1.0µg/L (WATER)

ChromaLab File No.: 0490103B

Attn: Laura Kuck

Sample No.: W-10-MW9

Date of Analysis: May 1-2, 1990

<u>601/8010</u>		
Dichlorodifluoromethane	<u>N.D.</u>	
Chloromethane	<u>N.D.</u>	
Vinyl Chloride	<u>N.D.</u>	
Bromomethane	<u>N.D.</u>	
Chlorethane Chlorethane	<u> N.D.</u>	
Trichlorofluoromethane	N.D.	
1,1-Dichloroethene	N.D.	QA/QC:
t-1,2-Dichloroethene	N.D.	*Sample blank concentra-
c-1,2-Dichlorcethene	N.D.	tion is none detected
1,1-Dichloroethane	N.D.	*Spiked recovery for
Chloroform	<u>N.D.</u>	Trans-1,2-Dichloroethene
1,1,1-Trichloroethane	<u>N.D.</u>	is 98.9%, for 1,1,1-
Carbon Tetrachloride	N.D	Trichloroethane is
Trichloroethene	<u> </u>	102.4%, for Trichloro-
1,2-Dichloropropane	<u>N.D.</u>	ethene is 82.4%
Bromodicnloromethane	<u>N.D.</u>	
2-Chloroethylvinyl ether	N.D.	
t-1,2-Dichlaropropene	N.D.	
Cis-1,3-Dichloropropene	N.D.	
1,1,2-Trichloroethane	N.D.	
1,1,2-Trichlorotrifluorethane	<u>N.D.</u>	CHROMALAB, INC.
Tetrachloroethene	N.D.	<b>\( \)</b>
Dibromochloromethane	N.D	middun
Ch1orobenzene	N.D.	David Duong, Sr. Chemist
Bromoform	<u>N.D.</u>	/ / /
1,1,2,2-Tetrachloroethane	N.D.	Entram (b)
1,3-Dichlorobenzene	N.D.	Eric Tam, Lab Director
1,4-Dichlorobenzene	N.D.	
',2-Dichlorobenzene	N.O.	

# CHROMALAB, INC.

Analytical Laboratory Specializing in GC-GC/MS Environmental Analysis

 Hazardous Waste (#238)

Drinking Water

(#955)

Waste Water

Consultation

May 2, 1990 APPLIED GEOSYSTEMS, INC. Project No.: 87042-9

Detection Limit: 1.0µg/L (WATER)

Attn: Laura Kuck

Sample No.: W-9-MW10

Date of Analysis: May 1-2, 1990

ChromaLab File No.: 0490103A

601/0010		
<u>601/8010</u> Dichlorodifluoromethane	N.D.	
Chloromethane	<u>N.D.</u>	
Vinyl Chloride	N.D	
Bromomethane	<u>N.D.</u>	
Chlorethane	N.D.	
Trichlorofluoromethane	<u>N.D.</u>	
1,1-Dichloroethene	N.D.	QA/QC:
t-1,2-Dichloroethene	<u>N.D.</u>	*Sample blank concentra-
c-1,2-Dichloroethene	N.D.	tion is none detected
1,1-Dichloroethane	<u>N.D.</u>	*Spiked recovery for
Chloroform	<u>N.D.</u>	Trans-1,2-Dichloroethene
1,1,1-Trichloroethane	N.D.	is 98.9%, for 1,1,1-
Carbon Tetrachloride	N.D.	Trichloroethane is
Trichloroethene	<u>N.D.</u>	102.4%, for Trichloro-
1,2-Dichloropropane	<u>N.D.</u>	ethene is 82.4%
Bromodichloremethane	N.D	
2-Chloroethylvinyl ether	<u>N.D.</u>	
t-1,2-Dichloropropene	N.D.	
Cis-1,3-Dichloropropene	N.D.	
1,1,2-Trichloroethane	<u>N.D.</u>	
1,1,2-Trichlorotrifluorethane	<u>N.D.</u>	CHROMALAB, INC.
Tetrachloroethene	N.D.	$\hat{\Gamma}$ . //
Dibromochloromethane	N.D.	Landano
Chlorobenzene	N.D. (	David Duong, Sr. Chemist
Bromoform	<u>N.D.</u>	
1,1,2,2-Tetrachloroethane	<u>N.D.</u>	GizTam (ky DD)
1,3-Dichlorobenzene	N.D.	Eric Tam, Lab Director
1,4-Dichlorobenzene	N.D.	•
1,2-Dichlorobenzene	N.D.	



Applied GeoSystems

43255 Mission Boulevard, Fremont, CA 94539 (415) 651-1906

FREMONT

COSTA MESA

SACRAMENTO

HOUSTON

## ANALYSIS REPORT

02121ab.frm

Report Prepared for: Applied GeoSystems 43255 Mission Blvd.

Date Received: 5-13-88 Laboratory Number: 05036501 Project:

87042-5 S-9-B9

Fremont, CA 94539 Attention: Greg J. Barclay

Total Xylenes

Sample: Matrix:

0.05

Soil

05-24-88

Parameter	Result (mg/kg) (mg/L)	Detection Limit (mg/kg) (mg/L)	Date Analyzed	Notes
TVH as Gasoline TPH as Gasoline	ND	2	05-24-88	NR
TEH as Diesel Benzene	ND	0.05	05-24-88	NR
Toluene Ethylbenzene	ND ND	0.05	05-24-88 05-24-88	

mg/kg = milligrams per kilogram = parts per million (ppm).

mg/L = milligrams per liter = ppm.

= Not detected. Compound(s) may be present at ND

concentrations below the detection limit.

= Analysis not required. NR

### PROCEDURES

TVH/BTEX -- Total volatile hydrocarbons (TVH) and benzene, toluene, ethylbenzene, and total xylene isomers (BTEX) are measured by extraction according to EPA Method 5030 followed by analysis by a EPA Method 8020/602 (modified for TVH) which uses a gas chromatograph (GC) equipped with a photo-ionization detector (PID) and a flame-ionization detector (FID) in series. Soil extracts and water samples are subjected to purge-and-trap introduction into the GC.

TPH--Total petroleum hydrocarbons (low-to-medium boiling points) are measured by extraction according to EPA Method 5030 followed by analysis by a modified EPA Method 8015 which uses a GC equipped with an FID. Soil extracts and water samples are subjected to purge-and-trap introduction into the GC.

TEH -- Total extractable hydrocarbons (high boiling points) are measured by extraction according to EPA Method 3550 for soils or EPA Method 3510 for water followed by a modified EPA Method 8015 with direct sample injection into a GC equipped with an FID.

Tia Tran, Laboratory Supervisor

6-01-88



## Applied GeoSystems

43255 Mission Boulevard, Fremont, CA 94539 (415) 651-1906

• FREMONT

COSTA MESA.

• SACRAMENTO

HOUSTON

# ANALYSIS REPORT

02121ab.frm

Report Prepared for: Applied GeoSystems 43255 Misson Boulevard

Laboratory Number:
Project #:

Date Received:

11-29-89 91136502 87042-6

Fremont, CA 94539

Sample #:

S-10-B11

Attention: Joellen Kuszmaul

Matrix:

Soil

Parameter	Result (mg/kg) (mg/L)	Detection Limit (mg/kg)   (mg/L)	Date Analyzed	Notes
TVH as Gasoline TPH as Gasoline TEH as Diesel Benzene Toluene Ethylbenzene Total Xylenes		2.0 10 0.050 0.050 0.050 0.050	12-04-89 12-06-89 12-04-89 12-04-89 12-04-89 12-04-89	NR

mg/kg = milligrams per kilogram = parts per million (ppm).

mg/L = milligrams per liter = ppm.

ND = Not detected. Compound(s) may be present at

concentrations below the detection limit.

NR = Analysis not required.

### PROCEDURES

TVH/BTEX--Total volatile hydrocarbons (TVH) and benzene, toluene, ethylbenzene, and total xylene isomers (BTEX) are measured by extraction according to EPA Method 5030 followed by analysis by a EPA Method 8020/602 (modified for TVH) which uses a gas chromatograph (GC) equipped with a photo-ionization detector (PID) and a flame-ionization detector (FID) in series. Soil extracts and water samples are subjected to purge-and-trap introduction into the GC.

TPH--Total petroleum hydrocarbons (low-to-medium boiling points) are measured by extraction according to EPA Method 5030 followed by analysis by a modified EPA Method 8015 which uses a GC equipped with an FID. Soil extracts and water samples are subjected to purge-and-trap introduction into the GC.

TEH--Total extractable hydrocarbons (high boiling points) are measured by extraction according to EPA Method 3550 for soils or EPA Method 3510 for water followed by a modified EPA Method 8015 with direct sample injection into a GC equipped with an FID.

Tia Tran, Laboratory Supervisor

12-08-89



## Applied GeoSystems

43255 Mission Boulevard, Fremont, CA 94539 (415) 651-1906

■ FREMONT

COSTA MESA

SACRAMENTO

HOUSTON

# **ANALYSIS REPORT**

02121ab.frm

Report Prepared for: Applied GeoSystems

43255 Misson Boulevard

Fremont, CA 94539

Attention: Joellen Kuszmaul

Date Received: Laboratory Number:

11-29-89 91136S01

Project #: Sample #: 87042-6 S-10-B10

Matrix:

Soil

Parameter	Result (mg/kg)   (mg/L)	Detection Limit (mg/kg) (mg/L)	Date Analyzed	Notes
TVH as Gasoline TFH as Gasoline TEH as Diesel Benzene Toluene Ethylbenzene Total Xylenes	ир ир ир ир ир ир	2.0 10 0.050 0.050 0.050 0.050	12-04-89 12-05-89 12-04-89 12-04-89 12-04-89 12-04-89	NR

mg/kg = milligrams per kilogram = parts per million (ppm).

mg/L = milligrams per liter = ppm.

ND = Not detected. Compound(s) may be present at

concentrations below the detection limit.

NR = Analysis not required.

#### PROCEDURES

TVH/BTEX--Total volatile hydrocarbons (TVH) and benzene, toluene, ethylbenzene, and total xylene isomers (BTEX) are measured by extraction according to EPA Method 5030 followed by analysis by a EPA Method 8020/602 (modified for TVH) which uses a gas chromatograph (GC) equipped with a photo-ionization detector (PID) and a flame-ionization detector (FID) in series. Soil extracts and water samples are subjected to purge-and-trap introduction into the GC.

TPH--Total petroleum hydrocarbons (low-to-medium boiling points) are measured by extraction according to EPA Method 5030 followed by analysis by a modified EPA Method 8015 which uses a GC equipped with an FID. Soil extracts and water samples are subjected to purge-and-trap introduction into the GC.

TEH--Total extractable hydrocarbons (high boiling points) are measured by extraction according to EPA Method 3550 for soils or EPA Method 3510 for water followed by a modified EPA Method 8015 with direct sample injection into a GC equipped with an FID.

Tia Tran, Laboratory Supervisor

12-08-89

	Blows/ Ft.	Sample No.	uscs	DESCRIPTION	CO
0 🕇				Asphalt (2 inches) over base rock (6 inches).	1.1
2 -			CL	Silty clay with fine-grained sand, dark gray, moist, medium plasticity, stiff.	
4 -	22	s-5	CL	Silty clay with a trace of small gravel, brown, damp, medium plasticity, very stiff.	88.88 88.88
8 –	26	s-9		Some fine-grained sand and gravel.	
0 -					-
2 –					+
4	9	s-15		Less sand; brown-gray.	-
5 🚽					-
3 -					-
) —		T			L
· -	<b>∔</b>	S-21	CL	Silty clay with fine-grained sand and gravel, gray- brown, damp, medium plasticity, hard.	-  -  -
					-
,	31	s-26		More sand; very stiff.	-
+					
					-
-	- 1		1	(Section continues downward)	::[- <u>-</u>



LOG OF BORING B-9/MW-9

Exxon Station No. 7-3006 729 High Street **P** - 19

PLATE

Cakland, California

	Blows/ Ft.	Sample No.	uscs	DESCRIPTION	WELL CONST
)   	20	S-31	CL	Silty clay with fine-grained sand and gravel, gray- brown, damp, medium plasticity, stiff.	
· -				Total Depth = 33 feet.	
5 -					
-					
1					
-					
-					
+					
+					i :
					ļ



LOG OF BORING B-9/MW-9

Exxon Station No. 7-3006 728-High Street Oakland, California PLATE

P - 20

Total depth of bo	rings25-1/2 feet Dia	meter o	1 boring	10 i	nches	Date drilled	11-27-89
Casing diameters_		Length		25 fee		Slot size:	
Screen diameters	4 inches	Longth	10	feet	Ma	terial type:_	Sch 40 PVC
<del>-</del>	Kvilhaug Well Drilling	, inc.	Driller	Rod	and Mi	ke	
Method Used Hot	low-Stem Auger				Fle	id Geologistı	Russeil Bak
Sign	sature of Registered	i Profes	sionai _				
	Registration No.	a	8	tate	CA	<del>_</del>	

Depth	Sample No.		Blows	P.LD.	USCS Code	Description	1	eii net
- 0 -						Aspnait (3 inches) over base rock (3 feet).	7 P P	7 Q 7 Q 7 Q
- 2 -	<b>.</b> .		3 8 <b>2</b> 0	0.4	CL	Clay, with trace gravel, gray—brown, moist, high plasticity, very stiff.	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	∇
6 -	S-5 S-7	H	8 16 25	0.4	GC	Gravei with clay inclusions, brown and gray with red and yellow staining, damp, hard.	44444	▽ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □
- 10-	S-10		12 6 6	0.4	ML	Grades coarse with little clay.  Silt with trace coarse sand, tan, damp, medium plasticity.	4 4 4 4 4	7
12-	S-15		900	0.1	CL	Clay, gray—tan, damp, medium plasticity, stiff.  Grades with increasing sand.		
18-	S-20		4 60 4	0.4	GC	Medium gravel, gray—brown with yellow staining, damp,		
	5-20		0	U. <del>~</del>	المال	medium dense.  (Section continues downward)		-



LOG OF BORINGB-10/MW-10 PLATE

Exxon Station No. 7-3006 720 High Street Oakland, California

C - 2:

Depth	Sample No.	•	BLOWS	PID.	USCS Code	Description	Well Commit
			100		GC	Medium gravei, gray—brown with yeilow staining, damp, medium dense.	
-22-					<u>▼</u>		
-24-			15 17		CL	Wet. Clay, tan-brown, damp, medium to high plasticity, very stiff.	
-26-	S-25		12	1.4		Total Depth = $25-1/2$ feet.	
-28 -				,			
-30 -	•						
-32							
34	:						
36-				,			
38-							
40							
42-							
44							
46-							
48-				1			
50							

PROJECT NO. 87042-6

LOG OF BORING B-10/MW-10 PLATE

Exxon Station No. 7-3006 720 High Street Cakland, California C - 3

Total depth of be	oring:30-1/2 feet Die	meter o	f boring	10	inch	es D	ate <del>drilled</del> i	11-	27-89
Casing diameters	4 inches	Longth		30 fe	et		Slot size:	0.01	0-inch
Screen diameters	4 inches	Longth	15	feet		Mate	riel type:_	Sch 4	0 PVC
Drilling Company	Kviihaug Weli Drilling,	Inc.	Driller	Rod	and	Mike			
Method Used Ho	liow-Stern Auger					Fleid	Geologistı	Russell	Bak
Sign	nature of Registered	Profes	oloneh_		_				
	Registration No.	<u> </u>	8	itato		<u> </u>			

Depth	Sampie ≥ P.1.1		P.L.D.	USCS Code	Description	Well Coast.	
- 0 -				_		Aspnait (3 inches) over base rock (3 feet).	, A D A
- 4 -			6		CL	Silty clay, gray, damp, medium plasticity, very stiff.	
	S-5		12	0	SW	Fine to coarse sand, brown with yellow and green staining, damp.	
6 -	1	F	3		CL	Silty clay, tan, damp, medium to high plasticity, stiff.	
8-	S-7		5	0	SP	Fine to medium sand, gray with red-brown and orange mottling, damp.	7 7 7
10-	S-9.5		5 10 12	0	GM	Gravei, gray, wet, noticeable odor.	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
12-					CL	Clay, dark gray, damp, high plasticity, very stiff.	
- 14 -			4				<b></b>
- 16 -	S-15		8 10	1.1			
- 18 -	•						
- 20 -	S-20		5 7 16	2.4	▼ GC	Fine to medium gravel with clay and fine to coarse sand, tan with gray—brown mottling, wet, dense.	

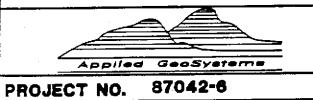


LOG OF BORINGB-11/MW-11 PLATE

Exxon Station No. 7-3006 720 High Street Oakland, California

- 4

Copth	Sample No.	BLOWS	P.LD.	USCS Code	Description	Wed Const
				GC	Fine to meaium graves with clay and fine to coarse sand, tan with gray—brown mottling, wet, dense.	
-22-						
-24		20 30		SP	Medium to coarse sand, tan-brown, wet, very dense.	
-26-	S-25	40	0.4			
-28						
-30 -	S-30	5 7 15	0	ML	Silt with trace sand, gray—tan, moist, low plasticity, stiff. Clay, gray—prown, damp, high plasticity, stiff.	
-32					Total Depth = $30-1/2$ feet.	
-34						
-36						
-38						
40-						
42						
.44						
46-						
48-						
50 -						



LOG OF BORING B-11/MW-11 PLATE

Exxon Station No. 7-3006 720 High Street Cakland, California

C - 5

Total depth of boring	Di	ameter of	bortng 8 inc	hes_ Date drilled	11-29-89
Casing diameters			N/A		N/A
Screen diameter:	N/A	_ Longth _	N/A	_ Material type:	N/A
Drilling Company: Kvill	aug Well Drillin	g, Inc. C	recei_Rod ar	nd Mike	
Method Used Hollow-				_ Fleid Geologistı	Russell Bak
Signatur	e of Registers	d Professi	onah		
	Registration N	0.a	State:	_CA	

Depth	Sample No.		Blowe	PLD.	USCS Code	Description	Well Coast
- 0 -					CL	Aspnait (4 inches) over base rock (6 inches). Clay, dark gray—brown, slightly damp, medium plasticity.	+ + + + + + + + + + + + + + + + + + +
- 4 -	S <b>-</b> 5		5 9 13	0.1	ML CL	Silt, green-gray, damp, low plasticity, stiff.  Clay with trace silt, gray and green, damp, medium plasticity, stiff.	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
- 8 -	S-7.5	-	8 17 <b>1</b> 9	0.1	GC	Sandy, silty gravel, brown with green-gray, moist, very dense.	\$ \$ \$ \$ \$
- 10-	S-10		10 16 <b>4</b> 5	432	₹ ĢP	With little fin <b>es, wet,</b> noticeable odor.	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
- 12-	S-12.5		15 20 17	1.2	CL.	Clay, tan with orange-brown mottling, moist, medium plasticity, hard.  Total Depth = 13 feet.	> <b>&gt; &gt; &gt; &gt; &gt; &gt;</b>
- 14 <del>-</del> - 16 -							
- 18 -							
- 20 -					·		



LOG OF BORING B - 14

Exxon Station No. 7-3006 720 High Street Cakland, California PLATE

C - 8

### ANALYSIS DATA SHEET - PETROLEUM HYDROCARBON COMPOUNDS ANAMETRIX, INC. (408) 432-8192

 Sample I.D.: 87042-6 S-10-B14
 Anametrix I.D.: 8911256-01

 Matrix: SOIL
 Analyst

 Date sampled: 11/29/89
 Supervisor

 Date anl.TPHg: 12/06/89
 Date released: 12/13/89

 Date ext.TPHd: 12/05/89
 Date ext. TOG: 12/04/89

 Date anl.TPHd: 12/12/89
 Date anl. TOG: 12/05/89

	CAS #	Compound Name	Reporting Limit (ug/kg)	Amount   Found   (ug/kg)
		TPH as Gasoline   TPH as Diesel   Total Oil & Grease	100000   10000   30000	3400000   1900000   820000

ND - Not detected at or above the practical quantitation limit for the method.

TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using EPA Method 5030.

TPHd - Total Petroleum Hydrocarbons as diesel is determined by GCFID

following either EPA Method 3510 or 3550. TOG - Total Oil & Grease is determined by Standard Method 503E.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

## ORGANIC ANALYSIS DATA SHEET - EPA METHOD 624/8240

ANAMETRIX, INC. (408) 432-8192

Anametrix I.D.: 8911256-01 Sample I.D. : 87042-6 S-10-B14 Matrix : SOIL Analyst : H Supervisor : FG Date released : 12/13/89

Date sampled: 11/29/89 Date analyzed: 12/07/89 Dilut. factor: 100

Instrument ID : F1

Dilut. ractor	: 100		·
CAS #	Compound Name	Reporting Limit (ug/Kg)	Amount   Found   (ug/Kg)
74-87-3	**4-Methyl-2-Pentanone * roluene	1000 1000 1000 1000 1000 1000 1000 100	ND N
CAS #  17060-07-0  2037-26-5  460-00-4	Surrogate Compounds   1,2-Dichloroethane-d4   Toluene-d8   p-Bromofluorobenzene	Limits   73-130%   74-121%   70-124%	% Recovery 108%   102%   95%

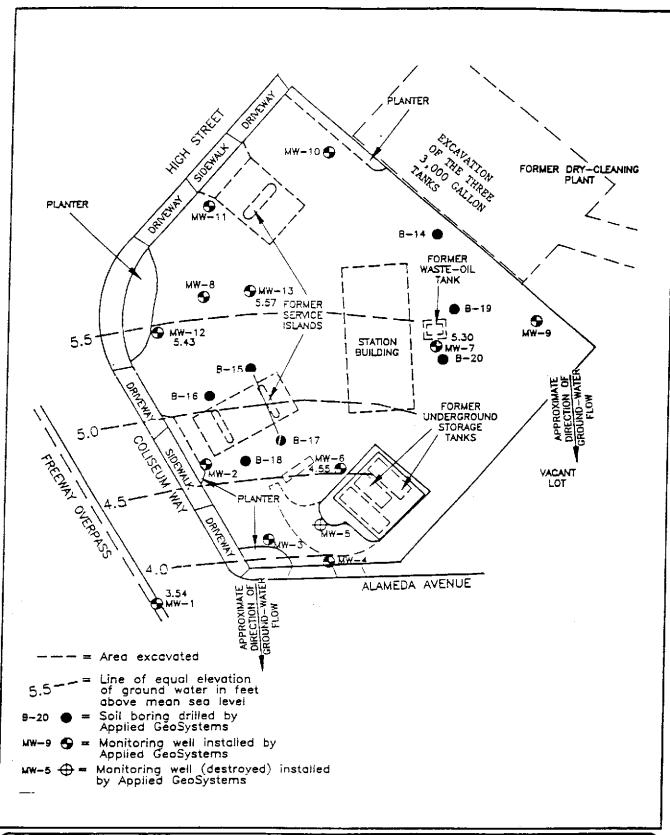






FIGURE C-1 GROUNDWATER ELEVATION MAP

Forch Hytrics Inc place franciona Marc Papineau

Hay Hattan 5375840

BIODEGRADATION OF HYDROCARBON CONTAMINATED SOIL

WITH

LIMITED SOIL SAMPLING

AND

LIMITED SOIL CHEMISTRY ANALYSIS

ED's AUTO PARTS

752 HIGH STREET

OAKLAND, CALIFORNIA

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Collect deunis & Needer to

Fail to Run (on 4/3/92

Har Charles ... 721

Prepared for:

MR. JOHN BACON

MR. & MRS. ROY HATTON

raceived on Feb 8.92

February 6, 1990

mmary to date of the many 6. 1990

### EXECUTIVE SUMMARY

The following is a summary to date of the biodegradation, limited soil sampling, and soil chemistry analysis of the stockpiled soil at 752 High Street prepared for Mr. John Bacon and Mr. and Mrs. Roy Hatton.

On September 4, 1990 Earth Metrics reported sample analysis data indicating that the diesel concentrations in the stockpiled soil were greater than the amount allowed by the Regional Water Quality Control Board to be in soil which is to be used as backfill. In the Earth Metrics Incorporated report entitled "Tank Removal and Limited Soil Chemistry Analysis for 752 High Street," September 4, 1990, samples were not composited, so that the stockpiles could be accurately sorted on the basis of the contamination level.

Prior to treatment, stockpiles were sorted on the basis of the previous sampling data (Earth Metrics Incorporated report "Tank Removal and Limited Soil Chemistry Analysis for 752 High Street," September 4, 1990). As the stockpiles were sorted, the soil was spread over the entire site, which reduced the thickness of the stockpiled soil to about one foot, thereby increasing the surface area available for treatment. Prior to treatment the concentration of oil and grease was determined by Environmental Protection Agency (EPA) Method 503 D (see Appendix B).

Soil at the site was sampled to monitor the decline of the concentration of the hydrocarbon concentration in the soil. The Earth Metrics "Limited Soil Chemistry Analysis, Ed's Auro Parts." May 15, 1991, showed that Total Petroleum Hydrocarbon as Gasoline (TPHG) and Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX) have volatilized from the stockpiles. The samples analysis shows that the diesel concentration has diminished from over 310 ppm to less than 10 ppm. The samples analysis also shows that the concentration of Oil and Grease have diminished from 2,400 ppm to ND. There is a well (MW-9) downgradient from the previous location of the underground storage tanks. MW-9 was tested in May 88, April 90, July 90, and November 90, and found to have no Total Petroleum Hydrocarbon as Diesel (TPHD), no TPHG and no BTEX contamination in the groundwater. In December 89 the wells were sampled and found to have a slight concentration of TPHG with slight concentrations of BTEX. This is most likely due to sampling error.

The stockpile on the west side of the project site was found to contain lead at .1 ppm. Therefore, it is not acceptable to return this stockpile to the tank pits.

### RECOMMENDATIONS/CONCLUSIONS

At the time of sampling, the soil analysis indicated that the center and the western stockpiles are ready to be used as backfill. The tank pits are also ready to be backfilled (Earth Metrics Incorporated report "Tank Removal and Limited Soil Chemistry Analysis for 752 High Street," September 4, 1990). A site closure form can be found in Appendix A. The stockpile on the west side of the project site was found to contain lead at .1 ppm. This stockpile should be removed from the property and disposed of at a Class 1 disposal facility. The western and center stockpiled soil should be placed back in to the tank pits. The eastern stockpile should be disposed of in a Class III

the tank pits. The eastern stockpile should be disposed of in a Class III landfill. The stockpile labeled "lead" should be disposed of in a Class I disposal facility. Following these measures, no further action should be taken on the unauthorized release at Ed's Auto Parts, 752 High Street, Oakland, California. The site and the general area are in need of redevelopment.

### SYSTEM INSTALLATION

The regulation set forth by the EPA in Test Methods for Evaluating Solid Waste (SW 846) was used to determine the number of samples required to delineate the stockpiled soil. The statistical analysis of the sample variation in Earth Metrics Incorporated's report "Tank Removal and Limited Soil Chemistry Analysis for 752 High Street," September 4, 1990, indicated that only three samples were required (see Appendix D). Therefore, the stockpiles were divided into three separate groups.

Prior to spreading the soil, an <u>impermeable barrier was laid over the site</u> to reduce the risk of the downward migration of contamination. Mulch containing bacteria was added to the soil to aid the culturing of the natural occurring bacteria, and the water was added to the compost.

An automatic timer was used to control the watering of the site. Three separate distribution systems were used to deliver water, and each ran at differing times. Alternating the time at which the areas were watered allowed the sprinkler system to have a greater line pressure during the water process. Bacterial growth was maintained in the excavated dirt until the soil developed a growth of grass. The water content was maintained at 60 percent so that the bacteria had sufficient water to thrive.

- What is the Etockpile Soil

Not rely on PZO V

Because measurements from instruments like the Photoionization Detector (PID) indicate relative organic vapor concentrations, but cannot measure concentrations of hydrocarbons with the precision of a laboratory analysis nor measure hydrocarbons that do not vaporize, soil samples were sent to the laboratory. To measure the concentration of hydrocarbon such as diesel or stoddard solvent in a soil, the contamination must first be extracted from the soil by a laboratory. Samples were sent to the laboratory approximately every four weeks (see Chain of Custody procedure in the Appendix A). Random samples of the other "hot spots" were taken to ensure that the entire system was working.

Soil samples from the stockpiles were collected after digging six inches to one foot into the stockpiles with a hand auger. A hand-held impact sampler, lined with a clean brass sleeve, was driven into the stockpiled soil to collect samples. Each brass sleeve was sealed, placed on ice, and transported to Sequoia Analytical Laboratory in Redwood City, California. The geologist initiated a Chain of Custody Record and a copy is included in Appendix B.

Samples of the stockpiled soil which were known to be the highest in concentration were collected on four occasions. The concentration of diesel, oil and grease were measured to map the progress of biodegradation of the stockpiled soil prior to the final sampling event. The final sampling event followed the regulation set forth by the EPA in Test Methods for Evaluating Solid Waste (SW 846) to determine the number of samples required to delineate a stockpile soil. The statistical analysis on the sample variation indicated that only three samples were required (see Appendix D). The stockpiles were divided into three groups and each group was sampled in at least three places. The Eastern stockpile group should be transported to a Class III disposal facility, or revisited and resampled.

The area that was known to have the highest concentration of diesel contamination in the soil was monitored for diesel, oil and grease content by sending samples to Sequoia Laboratory. The initial diesel content was 310 ppm. After approximately one month of biodegradation, the first sampling for The concentration of diesel was performed in the high concentration area. diesel in the soil dropped from 310 ppm to ND (less than 10 ppm). The oil and grease concentration was known to be at least 2,400 ppm prior to the beginning of the biodegradation. The area that we believed had the highest concentration of oil and grease was tested, and the concentration found was 460 ppm. The final sampling after turning the soil and applying hydrogen peroxide found the oil and grease to be at a concentration which was nondeductible in two of the three stockpile groups. The eastern stockpile group had two areas that were determined to be 410 ppm and 97 ppm. This stockpile should be disposed of at a Class III disposal facility or allowed to biodegradate further.

Figure 5 shows where the "hot" samples were collected from the stockpiled soil on December 7, 1990, January 9, 1991, and January 25, 1991, and where all the samples were taken on January 25, 1990. In the laboratory, the ten samples were not made into composite samples. The Chain of Custody and laboratory data sheets can be found in the Appendix C. A map which indicates the

TABLE 1. MONITORING SAMPLES FOR BIODEGRADATION OF HYDROCARBON AT ED'S AUTO PARTS, 752 HIGH STREET, OAKLAND

SAMPLE	DATE	TPHD	OIL AND	GREASE
57-4-26	July	NA	2,400	ррш
57-4-27	July	NA	1,600	ррш
S-1.0-BY	November	6.0 ppm	<b>460</b> ]	ppm
SB1	November	NA	60 1	ppm
SB3	November	NA	68 <u>r</u>	p <b>pm</b>
SB2	November	NA	63 F	pm
S-1				
S-1-NHP	January	7.8 ppm	NA	
S-1-HP	January	5.8 ppm	NA	

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Not the following the sampling locations is on the following.

the stockpile locations and sampling locations is on the following page (see Figure 5).

The soils that are found in the stockpiles have TPHD concentrations below the 10 parts per millon, which is the <u>standard</u> that is set forth by the Regional Water Quality Control Board for soil to be used as backfill. The soil has a oil and grease concentration below 50 parts per million which is lower than the Regional Water Quality Control Board requires for backfill in two of the three groups. The <u>BTEX concentrations</u> are lower than the detection limit, and therefore meet the requirements for backfill as set forth by the Regional Water Quality Control Board. Therefore, the soil from the center stockpile and the western stockpile could be placed back into the tank pits.

WELL DATA

Not their own figure 3. 1989 Page 1

There is a well MW-9 downgradient from the previous location of the underground storage tanks (see Figure 5). MW-9 was tested in May 1988, April 1990, July 1990, and November 1990, and found to have no TPHD, no TPHG and no BTEX contamination in the groundwater. On December 1990 the wells were sampled and found to have a slight concentration of TPHG with slight concentrations of BTEX. This is most likely due to sampling error(see Table 3). When this well was drilled no perroleum hydrocarhon as diesel or gasoline was found in the soil at a depth of nine feet. Therefore, at the time the well was tested the groundwater was not impacted by the tanks that were located at ED's Auto Parts. The sampling data can be found in the Appendix B. The groundwater direction has not changed significantly from July 1990 to November 1990, but could have changed in the past.

LEAD Low to you know by having only I wall?

The stockpile labeled "lead" in Figure 3 on the west side of the property has been tested to determine if the stockpile contains lead. The stockpile on the west side of the project site was found to contain lead at .1 ppm. Therefore this stockpile is not acceptable to be put back in to the tank pits. The stockpile should be removed from the property and disposed of at a Class 1 disposal facility.

### RECOMMENDATIONS FOR FURTHER ACTION

At the time of sampling the soil analysis indicated that two out of three of the stockpiles are ready to be used as backfill. The tank pits are also ready for backfill (Earth Metrics report, September 4, 1990). A site closure form can be found in the Appendix A of the document. The stockpile on the west—side of the project site was found to contain lead at 1 ppm. This stockpile should be removed from the property and disposed of at a Class I disposal facility. The western and center stockpiled soil should be placed back in to the tank pits. The eastern stockpile should be disposed of in a Class III landfill. The stockpile labeled "lead" should be disposed of in a Class I disposal facility. Then no further action should be taken on this unauthorized release. The site and general area are in need of redevelopment.

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TABLE 2. RESULTS OF SOIL ANALYSES FOR ED'S AUTO PARTS, 752 HIGH STREET, OAKLAND

SAMPLE GROUP	SAMPLE	TPHD	OIL AND GREASE
Center	S-1-C1	ND	ND
Center	S-1-C2	1.4 ppm	ND
Center	S-1-C3	1.7 ppm	ND
Center	S-1-C4	1.8 ppm	ND
Western	S-1-W1	2.3 ppm	ND
Western	S-1-W2	1.7 ppm	ND
Western	S-1-W3	1.4 ppm	ND
Eastern	S-1-E1	ND	410 ppm
Eastern	S-1-E2	ND	ND
Eastern	S-1-E3	ND	97 ppm

ND = Not Detected

TPHD - Total Petroleum Hydrocarbon as Diesel (8015)

Oil and Grease - Oil and Grease by 5520 D&E

S - Soil

1 = 1 foot below surface

El - Sample location, see Figure 3

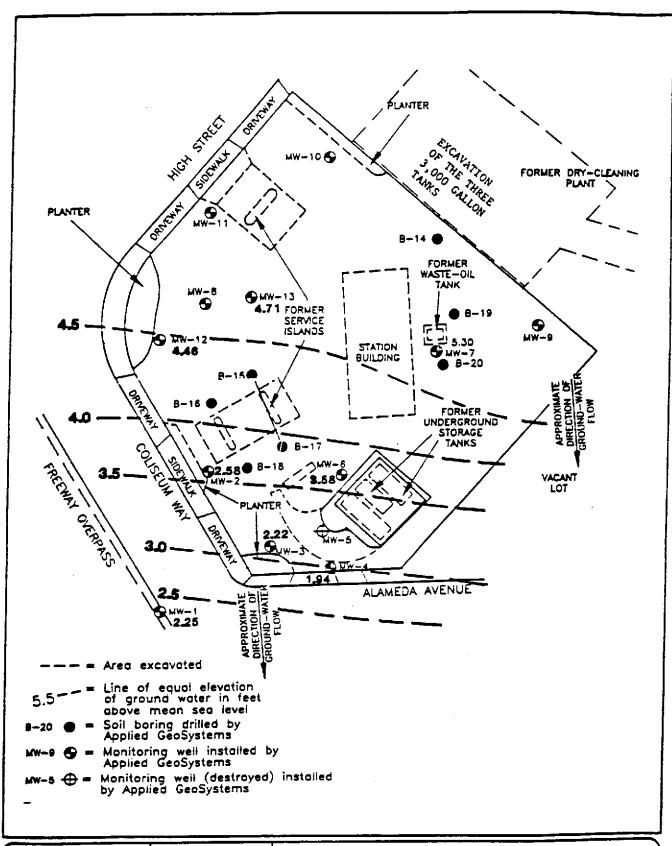






FIGURE 5. GROUNDWATER ELEVATION MAP

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- LUFT, "Leaking Underground Fuel Tanks," Federal Regulations and Guidelines (1990).
- McBurney, Maile, Project Manager, Sequoia Analytical, personal communication (1990).

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