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SOURCE REMOVAL REPORT PAINT THINNER TANK HEATING OIL TANK 4529 & 4549 Horton Street Emeryville, California

Project No. 113093

MANAGEMENT AND CONSULTING









California Registered Environmental Assessors California Certified Engineering Geologist Oregon Registered Engineering Geologist Oregon Registered UST Soil Cleanup Supervisors

SOURCE REMOVAL REPORT

PAINT THINNER TANK **HEATING OIL TANK**

4529 & 4549 Horton Street Emeryville, California

April 1, 1994

Prepared For:

Harvey M. Rifkin, Trustee of the Harvey M. Rifkin Living Trust Robert Rifkin, Harvey Rifkin, as Trustee of the Estate of Beatrice L. Rifkin, deceased, Robert Kantor and Sandra Kantor

c/o Mr. Frank Satterwhite, Receiver 3220 Monika Lane Hayward, California 94541

Report prepared By:

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SOURCE REMOVAL REPORT

PAINT THINNER TANK & HEATING OIL TANK 4529 and 4549 Horton Street, Emeryville California

SOURCE REMOVAL SUMMARY

Bay Area Tank Removal, Inc. (BATR) removed a 500 gallon paint thinner tank at 4529 Horton Street and a 1500 gallon heating oil tank at 4549 Horton Street in Emeryville, California. The tanks appears to be 30-40 years old. The 1500 gallon heating oil tank was corroded with obvious holes. No soil samples were collected below the heating oil tank because of obvious soil contamination. The 500 gallon paint thinner tank was corroded with obvious holes. BATR recovered two soil samples from the paint thinner tank pit. The laboratory reported the bottom sample to have a concentration of 10,000 ppm. Following the tank removal, both the heating oil and paint thinner tank pit were left open for later source removal.

BATR over excavated contaminated soil surrounding the paint thinner tank on January 6, 1994. A backhoe removed about 72 cubic yards of sandy clay-silt from the tank pit. Paint thinner concentrations up to 3909 ppm were encountered during the excavation of soil. The majority of contaminated soil was removed during the excavation. The bottom of the excavation was at 11.5 feet below grade in gray-brown sandy clay-silt. Paint thinner concentrations of up to 2630 ppm remain on the south and west side walls of the excavation beneath utility lines. Mr. Barny Chan, inspector with Alameda County, gave permission to back fill the excavation when the majority of contaminated soil had been removed. On January 10, 1994, TMC drilled hand augered borings into the west wall of the paint thinner tank excavation. The hand augered borings indicate the extent of remaining soil contamination is limited to beneath the utility lines. Ground water occurred in the excavation at a depth of 10-11 feet below grade. The fresh ground water had no sheen or floating product. H & H Ship Service pumped out 250 gallons of water in the excavation prior to groundwater grab sampling. The grab water sampling indicates no detectable paint thinner in the groundwater.

BATR over excavated contaminated soil surrounding the heating oil tank on January 10, 1994. A backhoe removed about 36 cubic yards of sandy clay-silt from the tank pit. Heating oil concentrations up to 15,700 ppm TPH as diesel were encountered during the excavation of soil. The majority of heating oil contaminated soil was removed during the over excavation. Heating oil contaminated soil remains beneath adjacent utility lines. The bottom of the excavation was at 12 feet below grade in gray-brown sandy clay-silt. Mr. Barny Chan, inspector with Alameda County, gave permission to back fill the excavation when the majority of contaminated soil had been removed.

On January 13, 1994, TMC drilled hand augered borings into the side walls of the heating oil tank excavation limits. The hand augered borings indicate the extent of soil contamination is limited to beneath the utility lines. Ground water occurred in the

excavation at a depth of 8-10 feet below grade. The fresh ground water had no sheen or floating product. During the back filling of the excavation with imported fill material, a four inch diameter observation sump was installed in the excavation. On January 11, January 19, and February 9, 1994, H & H Ship Service pumped out 4970 gallons of pit water from the observation sump prior to groundwater grab sampling. The laboratory reported non detectable results for the grab water sampling.

Bay Area Tank Removal, Inc. filled both excavations with imported material, then resurfaced the sidewalk with concrete. Den Beste Trucking transported 72 cubic yards of paint thinner contaminated soil to Browning Ferris Industries in Livermore, California for disposal. Manley & Sons Trucking transported 36 yards of heating oil contaminated soil to Forward Inc. Landfill in Manteca, California.

GENERAL SITE INFORMATION

SITE LOCATION

The subject property, called the "Site" in this report, is at the following address:

4525-4563 Horton Street, City of Emeryville County of Alameda, State of California Assessor's Parcel No. 49-1041-005

The entire property is occupied by one large building. Multiple businesses and addresses occur within the building. The underground paint thinner and heating oil tanks occurred in the sidewalk at 4529 and 4549 Horton Street.

SITE DESCRIPTION

The site is on Horton Street between 53rd and 45th Streets (see Plate 1, Site Vicinity Map), and is rectangular in configuration. The site is currently developed, with an existing two story, brick walled, commercial building (see Plate 2, Site Map). The building occupies the majority of the one acre property. The Site is bordered to the north by Chiron International Research Corporation, to the south by the Sherwin Williams Paint Company, to the east by Horton Street and Chiron, and to the west by railroad tracks and the rubble of a dismantled water tank and fuel oil tank. Temescal Creek runs through a culvert beneath the building. Public utilities service the general area. Land use of the surrounding area is commercial and industrial.

PROPERTY OWNER

The property owners for this site are:

Harvey M. Rifkin, Trustee of the Harvey M. Rifkin Living Trust Dated March 11, 1987.

Robert Rifkin, Harvey Rifkin, as Trustee of the Estate of Beatrice L. Rifkin,

deceased,
Robert Kantor and Sandra Kantor

c/o Mr. Frank Satterwhite, Receiver 3220 Monika Lane Hayward, California 94541

CONSULTANT OF RECORD

The consultant of record for this project is:

TMC Environmental Inc. 13908 San Pablo Avenue, Suite 101, San Pablo, California 94806

Mr. Tom Edwards, president or Mr. Mark Youngkin, vice president can be reached at (510) 232-8366.

LEAD IMPLEMENTING AGENCY

The lead implementing agency with jurisdiction over this site is:

County of Alameda, Health Care Services Agency Department of Environmental Health, UST Local Oversight Program 80 Swan Way, Room 200, Oakland, California

The officer overseeing this case is Ms. Susan Hugo, who can be reached at (510) 271-4320. The agency will review the report on a case by case basis using local health regulations and guidelines specified in the Tri-Regional Board Staff Recommendations for Preliminary Evaluation and Investigation of Underground Tank Sites, California Regional Water Quality Control Board, San Francisco Bay Region. It is the responsibility of the underground tank program to issue a letter for completion or require additional investigation and clean up for this site.

RECENT TANK REMOVALS

Bay Area Tank Removal, Inc. (BATR) of San Francisco, California removed a 500 gallon paint thinner tank at 4529 Horton Street and a 1500 gallon heating oil tank at 4549 Horton Street in Emeryville, California. The age of the tanks appears to be 30-40 years. On November 24, 1993, the tanks were removed from the excavation and loaded onto trucks for transport and cleaning at the H & H transport, disposal, and storage facility in San Francisco, California.

CONDITION OF PAINT THINNER

The 500 gallon paint thinner tank was corroded with obvious holes. Obvious odor was observed in the tank pit. BATR collected two soil samples from the paint thinner tank pit, one from beneath the center of the tank and one from the northwest side wall. The laboratory reported the bottom sample to have a concentration of 10,000 ppm gasoline range hydrocarbon. No groundwater occurred in the tank pit. The tank pit was left open for source removal.

CONDITION OF HEATING OIL TANK

The 1500 gallon heating oil tank had dimensions of five feet diameter by ten feet length with a burial depth of 48 inches. A product, return, and vent line connected the tank to the building foundation. The lines were cut off and pinched at the foundation wall. The 1500 gallon heating oil tank was corroded with obvious holes. No soil samples were collected below the tank because of the obvious heating oil contamination of back fill beneath the tank. No groundwater was observed in the tank pit. The tank pit was left open for source removal.

RESULTS OF TANK REMOVAL SOIL SAMPLING

Two soil samples (2-B and 2-NW) were collected from the paint thinner tank pit, one from beneath the center of the tank (2-B) and one from the northwest side wall (2-NW). No soil samples were collected below the heating oil tank because of the obvious heating oil contamination of back fill beneath the tank.

The samples were submitted to an on site, State-certified mobile laboratory, Geochem Environmental Laboratories of San Jose, California, for chemical analysis. The soil samples were chemically analyzed for total petroleum hydrocarbons (TPH) as diesel and gasoline with benzene, toluene, ethylbenzene, and total xylenes distinction (BTEX). The two samples from the paint thinner tank pit were also analyzed for organic lead and volatile organic compounds. The sample analysis results are presented below in Table 1, Tank Removal Sample Results, and in the attachments.

TABLE 1 TANK REMOVAL SOIL SAMPLING

Underground Storage Tank Address:

4529 Horton Street

Sample collection date:

November 24, 1993

Type of soil collected in samples:

clay

Sample Label	Depth Inches	Diesel mg/Kg ppm	Gasoline mg/Kg, ppm	Benzene mg/Kg, ppm	Toluene mg/Kg, ppm	Ethyi Benzene mg/Kg, ppm	Total Xylenes mg/Kg, ppm
Reporting Limit		1 ppm	1ppm	0.1 ppm	0.1 ppm	0.1 ppm	0.1 ppm
Paint Thinner Tank 2 B	84	ND	10,000	ND	4.0	12.4	12.4
Paint Thinner Tank 2 NW	72	ND	ND ·	0.1	ND	ND	0.4

ND = NOT REPORTED ABOVE LABORATORY REPORTING LIMIT

The soil sample, #2-B, below the paint thinner tank, was reported at a concentration of 10,000 ppm gasoline range hydrocarbon. No organic lead or volatile organic compounds were detected beneath the paint thinner tank.

PAINT THINNER TANK SOURCE REMOVAL

OVER EXCAVATION OF PAINT THINNER TANK PIT

BATR over excavated contaminated soil surrounding the paint thinner tank on January 6, 1994. An inspector, Mr. Barney Chan from Alameda County, and personnel from TMC Environmental, Inc. witnessed the excavation. A backhoe removed about 54 cubic yards of sandy clay from the side walls and bottom of the tank pit. During the over excavation, a Geochem mobile laboratory was on site to analyze soil samples. Table 2, paint thinner tank: interim samples, shows the interim sample results during the progress of the over excavation of soil. Plate 3, paint thinner tank source removal plan, shows the location of soil samplings collected during the over excavation. Paint thinner concentrations up to 3909 ppm were encountered during the excavation of soil.

TABLE 2 PAINT THINNER TANK: INTERIM SAMPLES

Underground Tank Site Address:

4529 Horton Street, Emeryville, CA

Site Name:

Rifkin Realty Partners

Sample collection date:

January 5, 1994

Type of soil collected in samples:

clay-silt

Sample ID	Depth Feet	Gasoline ppm	Benzene ppm	Toluene ppm	Ethyl benzene ppm	Total Xylenes ppm	Total Lead ppm
Detection Limit		1	0.1	0.1	0.1	0.1	1
Bottom-i	10.5	ND	ND	ND	ND	ND	13
EW-1	8.5	714	0.2	ND	1.4	2.7	15
NW-I	8.5	3909	0.7	0.1	3.2	10.0	29
SW-1	8.5	842	0.4	ND	1.6	3.2	11
WW-1	8.5	709	0.3	ND	1.7	3.0	ND

ND - not detected above laboratory reporting limit

BTEX: B-Benzene, T-Toluene, E-Ethylbenzene, X-Total Xylenes

PPM - parts per million, mg/Kg

PAINT THINNER TANK: EXCAVATION LIMIT SAMPLING

The backhoe recovered excavation limit soil samples for laboratory analysis following the removal of soil. The bottom of the excavation was at 11.5 feet below grade in gray-brown sandy clay. Plate 3, paint thinner tank source removal plan, shows the location of the final excavation limit soil samples. The final excavation limit samples were SW-2, SW-3, EW-2, EW-3, NW-2, NW-3, WW-2, WW-3, and BOTTOM-1.

A Geochem Environmental Laboratories mobile laboratory analyzed the soil samples. The laboratory analyzed the samples for total petroleum hydrocarbons (TPH) as gasoline in soils and wastes using California DOHS/LUFT Manual October 1989 (TPH); benzene, toluene, ethylbenzene, and total xylenes (BTEX) by EPA method 8020 with extraction by EPA 5030 Purge and Trap, and selected samples for total lead. The following table shows the results of the excavation limit sampling:

TABLE 3 PAINT THINNER TANK: EXCAVATION LIMIT SAMPLES

Underground Tank Site Address:

4529 Horton Street, Emeryville, CA

Site Name:

Rifkin Realty Partners

Sample collection date:

January 6, 1994

Type of soil collected in samples:

clay-silt

Sample ID	Depth Feet	Gasoline ppm	Diesel ppm	Benzene ppm	Toluene ppm	Ethyl benzene ppm	Total Xylenes ppm	Total Lead ppm
Detection Limit	1	1	1	0.1	0.1	0.1	0.1	1
EW-2	8.5	254	123	ND	ND	ND	ND	4
EW-3	9	25	ND	ND	ND	ND	ND	1
NW-2	11.5	ND	ND	ND	ND	ND	ND	8
NW-3	9.5	ND	ND	ND	ND	ND	ND	3
SW-2	9	56	ND	ND	ND	ND	0.1	ND
SW-3	9	259	ND	ND	ND	0.3	0.6	ND
WW-2	10.5	349	NĐ	ND	ND	0.5	0.6	ND
WW-3	9	2630	ND	ND.	ND	2.7	5.8	ND

ND - not detected above laboratory reporting limit

BTEX: B-Benzene, T-Toluene, E-Ethylbenzene, X-Total Xylenes

PPM - parts per million, mg/Kg

Analysis by the on site laboratory, Geochem Environmental Laboratories of San Jose, California, reported that detectable paint thinner remains on the bottom and side walls of the excavation. The majority of contaminated soil was removed during the over excavation. Mr. Barny Chan, inspector with Alameda County, gave permission to back fill the excavation when it appeared that the majority of contaminated soil had been removed.

PAINT THINNER TANK: HAND AUGURED BORINGS

On January 10, 1994, TMC recovered hand auger samples from the west wall of the paint thinner tank excavation limits. Two hand augured borings (WW-4 and WW-5) penetrated beneath the adjacent utility lines as shown on plate 3, paint thinner tank source removal plan. Two soil samples came from each boring at two and four feet from the excavation limit at depths of 7-8 feet. The following table, paint thinner tank: hand auger samples, shows the results of the soil sampling.

TABLE 4 PAINT THINNER TANK: HAND AUGER SAMPLES

Underground Tank Site Address:

4529 Horton Street, Emeryville, CA

Site Name:

Rifkin Realty Partners

Sample collection date:

January 10, 1994

Type of soil collected in samples:

clay-silt

Sample ID	Depth Feet	Gasoline ppm	Diesel ppm	Benzene ppm	Toluene ppm	Ethyl benzene ppm	Total Xylenes ppm	Total Lead ppm
Detection Limit		1	1	0.1	0.1	0.1	0.1	1
WW4-1	7	ND	ND	ND	ND	ND	NÐ	ND
WW4-2	8	ND	ND	ND	ND	0.2	0.2	ND
WW5-1	7	ND	ND	ND	ND	ND	ND	ND
WW5-2	8	ND	ND	ND	ND	ND	ND	ND

ND - not detected above laboratory reporting limit

BTEX: B-Benzene, T-Toluene, E-Ethylbenzene, X-Total Xylenes

PPM - parts per million, mg/Kg

The results indicate residual paint thinner contamination remains under the adjacent utility lines. The hand augered borings indicate the extent is limited to beneath the utility lines and does not extend under the building foundation.

PAINT THINNER TANK: GRAB WATER SAMPLING

Groundwater occurred in the excavation at a depth of 10-11 feet below grade. The fresh groundwater had no sheen or floating product. On January 5, 1994, an interim grab water sample was recovered from the pit water without purging. Sample H2O Pit-1 was obtained prior to the final excavation limits. This sample indicates contaminated pit water in contact with contaminated back fill.

On January 6, 1994, H & H Ship Service pumped out the water in the excavation prior to a second round of groundwater grab sampling. Following the completion of the excavation, H & H Ship Service pumped about 1450 gallons of water from the excavation. Another grab water sample (H20Pit-2) was collected from fresh ground water entering the excavation. Geochem Environmental Laboratories of San Jose, CA analyzed the water samples. The following table shows the results of the laboratory analysis of the grab water samples:

TABLE 5 PAINT THINNER TANK: GRAB WATER SAMPLING

Underground Tank Site Address:

4529 Horton Street, Emeryville, CA

Site Name:

Rifkin Realty Partners

Sample collection date:

January 5-6, 1994

Type of samples:

grab ground water

Sample ID	Date	Gasoline ppb	Benzene ppb	Toluene ppb	Ethyi benzene ppb	Total Xylenes ppb	Total Lead ppm
Detection Limit	 	50	0.5	0.5	0.5	0.5	l ppm
H20 Pit-1	1-5-94	535	0.129	ND	1.14	2.96	ND
H2O Pit-2	1-6-94	ND	ND	ND	ND	ND	ND

ND - not detected above laboratory reporting limit

BTEX: B-Benzene, T-Toluene, E-Ethylbenzene, X-Total Xylenes

PPM - parts per million, mg/Kg

Sample H2O Pit-2 appear to represent the condition of the groundwater interface. The grab water sampling indicates no detectable groundwater concentrations of paint thinner. No sheen or floating product was observed on the fresh ground water.

HEATING OIL TANK SOURCE REMOVAL

OVER EXCAVATION OF HEATING OIL TANK PIT

Bay Area Tank Removal, Inc. over excavated contaminated soil surrounding the heating oil tank on January 10, 1994. An inspector, Mr. Barney Chan of Alameda County, and personnel from TMC Environmental, Inc. witnessed the excavation and sampling. A backhoe removed about 36 cubic yards of sandy clay-silt from the side walls and bottom of the tank pit area. During the over excavation, a Geochem mobile laboratory was on site to analyze soil samples. Plate 4, heating oil tank source removal plan, shows the location of soil samples collected during the over excavation. Heating oil concentrations up to 15,700 ppm TPH as diesel were encountered during the excavation of soil. The majority of heating oil contaminated soil was removed during the over excavation.

HEATING OIL TANK: EXCAVATION LIMIT SAMPLING

The backhoe recovered excavation limit soil samples for laboratory analysis following the removal of soil. Plate 4, heating oil tank source removal plan, shows the location of the final excavation limit soil samples. The bottom of the excavation was at 12 feet below grade in gray-brown sandy clay. The final excavation limit samples were SW-1, SW-2, EW-1, EW-2, NW-1, NW-2, WW-1, and WW-2.

A Geochem Environmental Laboratories, Inc. mobile laboratory analyzed the soil samples. The laboratory analyzed the samples for total petroleum hydrocarbons (TPH) as diesel and gasoline in soils and wastes using California DOHS/LUFT Manual October 1989 (TPH); benzene, toluene, ethylbenzene, and total xylenes (BTEX) by EPA method 8020 with extraction by EPA 5030 Purge and Trap, and selected samples for total lead. The following table shows the results of the excavation limit sampling:

TABLE 6 HEATING OIL TANK: EXCAVATION LIMIT SAMPLES

Underground Tank Site Address:

4549 Horton Street, Emeryville, CA

Site Name:

Rifkin Realty Partners

Sample collection date:

January 10, 1994

Type of soil collected in samples:

clay-silt

Sample ID	Depth Feet	Gasoline ppm	Diesel ppm	Benzene ppm	Toluene ppm	Ethyl benzene ppm	Total Xylenes ppm	Total Lead ppm
Detection Limit		1	1	0.1	0.1	0.1	0.1	1
EW-1	6	ND	11,100	ND	ND	0.4	0.5	ND
EW-2	8	ND	15,700	ND	0.3	1.4	2.6	ND
NW-1	6	ND	4,980	ND	ND	ND	0.6	ND
NW-2	8	ND	37	ND	ND	ND	ND	ND
SW-1	6	ND	12,500	ND	0.2	0.3	0.2	ND
SW-2	8	ND	437	ND	ND	ND	ND	ND
WW-1	6	ND	4,480	ND	ND	ND	0.5	ND
WW-2	8	ND	9.940	ND	ND	ND	0.4	ND

ND - not detected above laboratory reporting limit

BTEX: B-Benzene, T-Toluene, E-Ethylbenzene, X-Total Xylenes

PPM - parts per million, mg/Kg

Analysis by the on site laboratory, Geochem Environmental Laboratories of San Jose, California, reported that heating oil contaminated soil remains beneath adjacent utility lines. Mr. Barny Chan, inspector with Alameda County, gave permission to back fill the excavation when it appeared that the majority of contaminated soil had been removed.

HEATING OIL TANK: HAND AUGERED BORINGS

On January 13, 1994, TMC recovered hand auger samples from the side walls of the heating oil tank excavation limits. Seven hand augered borings (HAEW-4, HAEW-8, HANW-4, HANW-7.5, HASW-4, HASW-7.5, and HAWW-8) penetrated beneath the adjacent utility lines as shown on plate 4, heating oil tank source removal plan. Soil samples came from each boring at various depths from the excavation limit at depths of 7-9 feet. The following table, heating oil tank: hand auger samples, shows the results of the hand auger soil sampling.

TABLE 7 HEATING OIL TANK: HAND AUGER SAMPLES

Underground Tank Site Address:

4549 Horton Street, Emeryville, CA

Site Name:

Rifkin Realty Partners

Sample collection date:

January 13, 1994

Type of soil collected in samples:

clay-silt

Sample ID	Depth Feet	Gasoline ppm	Diesel ppm	Benzene ppm	Toluene ppm	Ethyl benzene ppm	Total Xylenes ppm	Total Lead ppm
Detection Limit		1	1	0.1	0.1	0.1	0.1	ı
HAEW-4	4	33	ND	1.2	2.6	0.7	3.2	20
HAEW-8	8	ND	ND	ND	ND	ND	ND	19
HANW-4	4	ND	202	ND	ND	0.1	0.1	9
HANW-7.5	7.5	ND	104	ND	ND	0.2	0.1	9
HASW-4	4	ND	ND	ND	ND	ND	ND	159
HASW-7.5	7.5	ND	ND	ND	ND	ND	ND	ND
HAWW-8	8	ND	ND	ND	ND	ND	ND	ND

ND - not detected above laboratory reporting limit

BTEX: B-Benzene, T-Toluene, E-Ethylbenzene, X-Total Xylenes

PPM - parts per million, mg/Kg

The results indicate residual heating oil contamination remains under the adjacent utility lines. The hand augered borings indicate the extent is limited to beneath the utility lines. The majority of heating oil contaminated soil was removed during the over excavation of soil.

HEATING OIL TANK: GRAB WATER SAMPLING

Groundwater occurred in the excavation at a depth of 10-11 feet below grade, then rose in the open pit to a depth of 8 feet below grade. The fresh groundwater, entering the excavation had no sheen or floating product. During the back filling of the excavation with imported fill material, a four inch diameter observation sump was installed in heating oil pit. On January 11 and 19, 1994 and February 9, 1994, H & H Ship Service pumped out 4970 gallons of pit water from the excavation and observation sump prior to groundwater grab sampling. A disposable bailer was used to collect a sample of the water entering the sump following purging. The following table shows the results of the laboratory analysis of the grab water samples:

TABLE 8 HEATING OIL TANK: GRAB WATER SAMPLING

Underground Tank Site Address:

4549 Horton Street, Emeryville, CA

Site Name:

Rifkin Realty Partners

Sample collection date:

January-February, 1994

Type of samples:

grab groundwater

Sample ID	Date	Diesel ppb	Gasoline ppb	Benzene ppb	Toluene ppb	Ethyl benzene ppb	Total Xylenes ppb
Detection Limit	1	50	50	0.5	0.5	0.5	0.5
OB-1-1	1-11-94	ND	ND	ND	ND	ND	ND
OB-1-2	1-19-94	ND	ND	ND	ND	ND	ND
OB-1A	2-09-94	ND		ND	ND	ND	ND
OB-1B	2-09-94	ND		ND	ND	ND	ND

ND - not detected above laboratory reporting limit

BTEX: B-Benzene, T-Toluene, E-Ethylbenzene, X-Total Xylenes

PPM - parts per million, mg/Kg

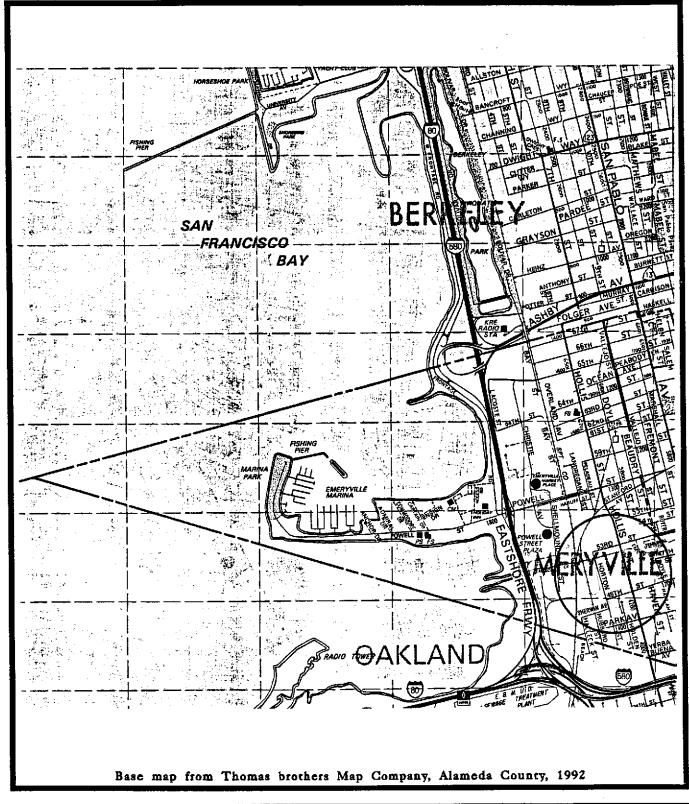
These grab water samples appear to represent the condition of the ground water surrounding the tank pit. The grab water sampling indicates no detectable groundwater concentrations of heating oil. No sheen or floating product was observed on the fresh ground water.

DISPOSAL OF CONTAMINATED WASTE

During the over excavation of the tank pits, 5220 gallons of petroleum contaminated pit water was pumped from the tank pit excavations by H & H Ship Service of San Francisco, California. About 72 cubic yards of excavated soil was transported by Den Beste Trucking Company to the Browning Ferris Industries (BFI) Landfill in Livermore, California for disposal. About 36 cubic yards of excavated soil was transported by Manley & Sons Trucking company to the Forward Inc. Landfill in Manteca, California for treatment and recycling. Attachment 4, waste manifests, contains the disposal documentation. The previous tank removal report contains the documentation for the tank removal and disposal of overburden soil.

LIMITATIONS

The procedures and opinions in this document agree with professional practice as provided guidelines of the California Regional Water Quality Control Board for addressing fuel leaks from underground tanks. This document is only part of the ongoing work required by the lead implementing agency at this site. The lab test results rely on limited data collected at the sampling location only. Budget constraints restrict the amount of testing allowed. The lab test results do not apply to the general site as a whole. Therefore, TMC cannot have complete knowledge of the underlying conditions at the conclusion of the work specified in the work plan. The professional opinion and judgment in the document is subject to revisions in light of new information. We do not state or imply any guarantees or warranties that the subject property is or is not free of environmental impairment.





SITE VICINITY MAP

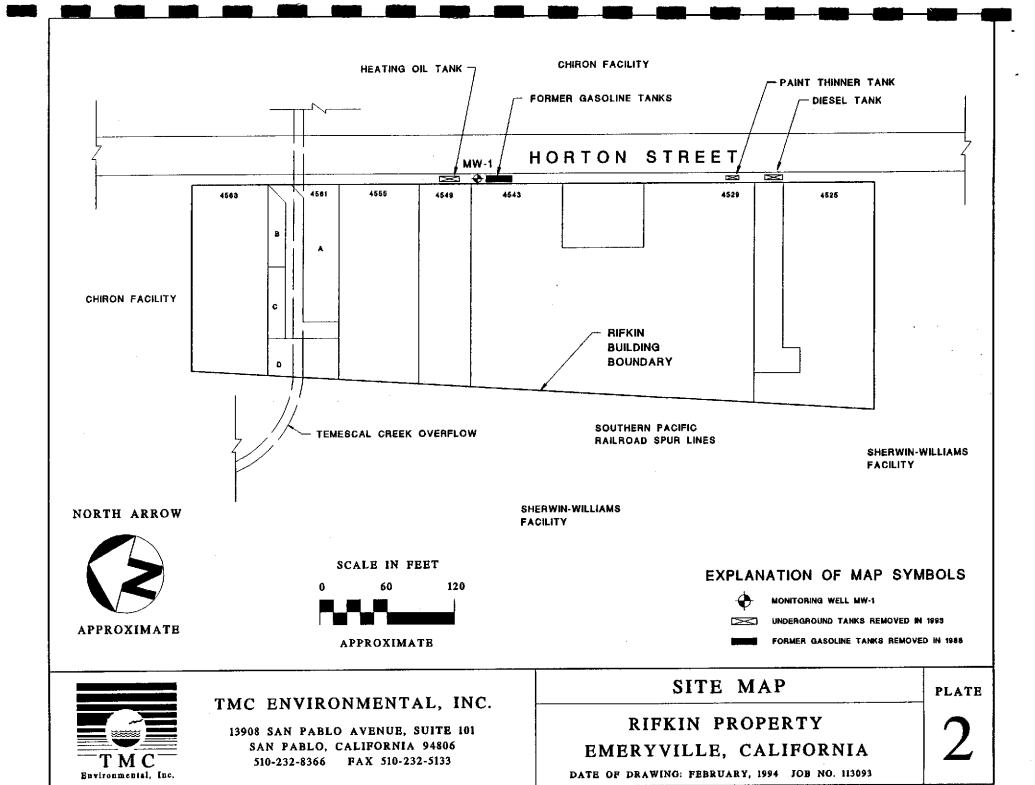
Tank Removal Report

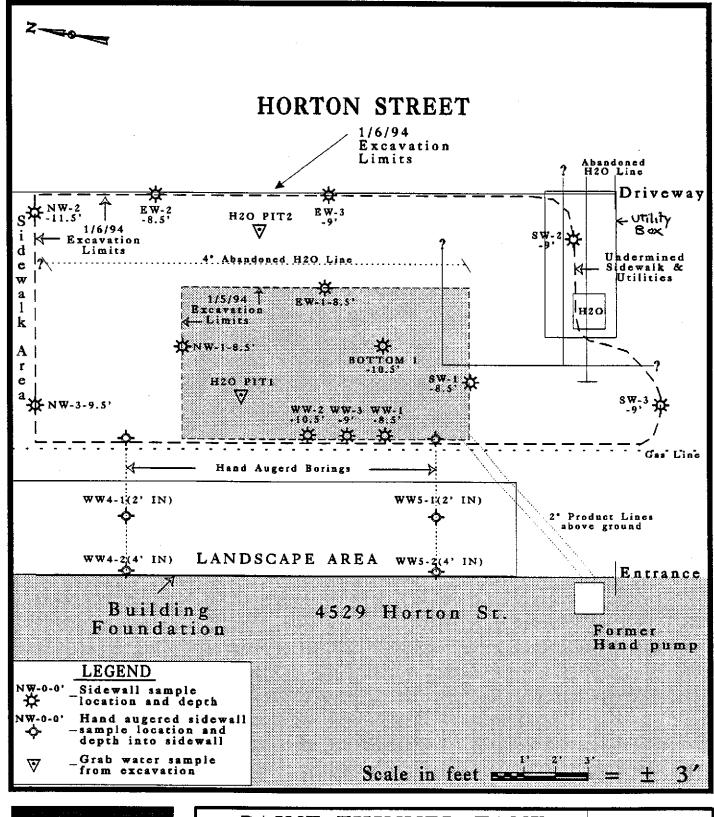
4525-4563 Horton Street Emeryville, California

Project No. 1-13093

February 1993

PLATE







PAINT THINNER TANK SOURCE REMOVAL PLAN

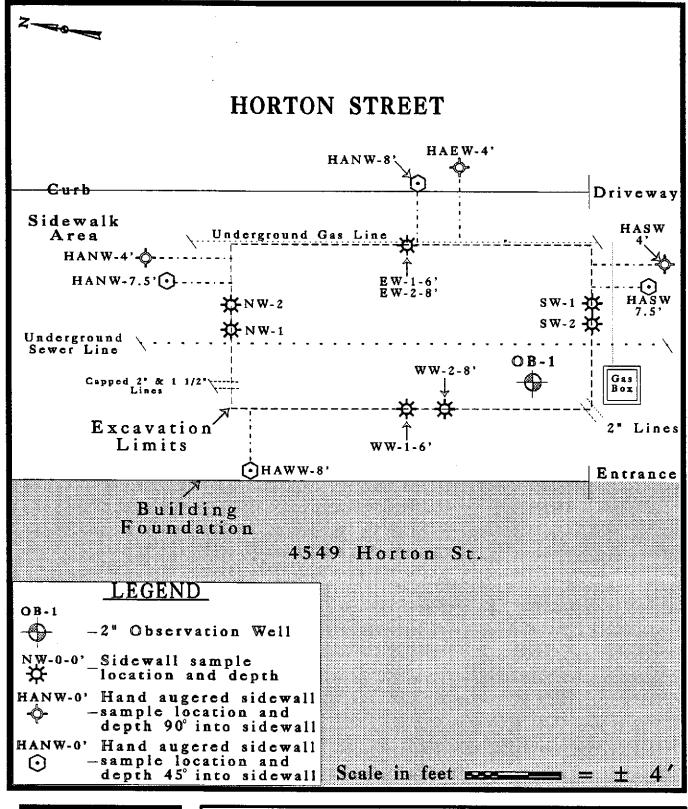
Rifkin Property
4529 Horton Street
Emeryville, CA

Project No. 1-13093

February 1994

PLATE

5





HEATING OIL TANK SOURCE REMOVAL PLAN

Rifkin Property 4549 Horton Street Emeryville, CA

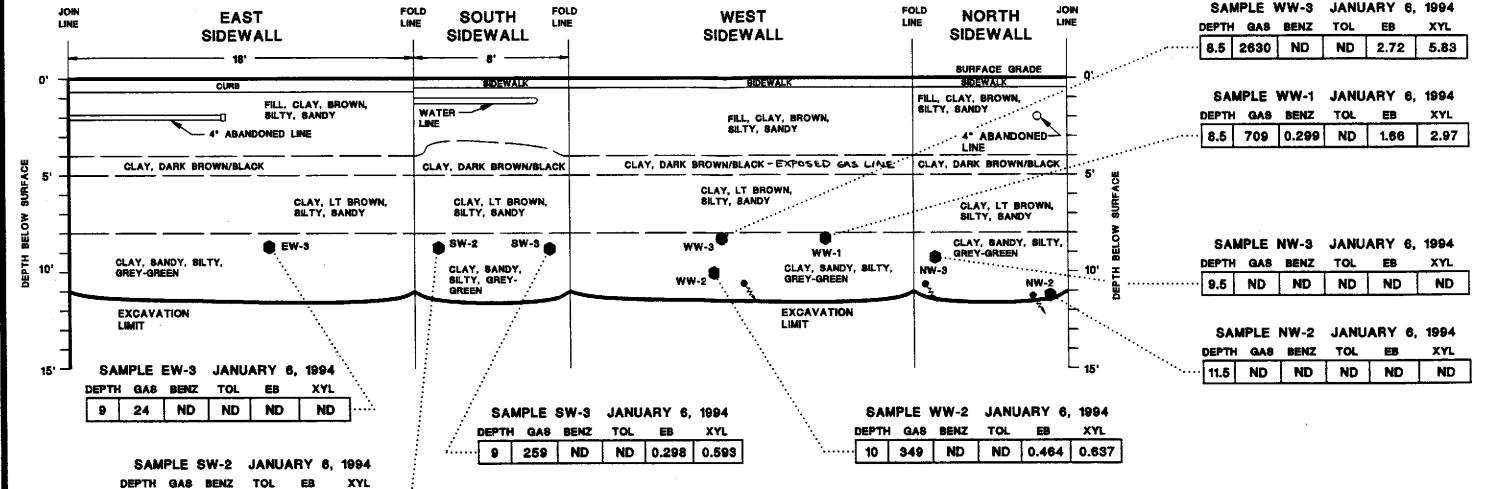
Project No. 1-13093

February 1994

PLATE

4

FOLD OUT DIAGRAM OF EXCAVATION SIDEWALLS **EXCAVATION DATE JANUARY 6, 1994**



SURFACE VIEW LOOKING DOWN AT BOTTOM OF EXCAVATION

SAMPL	E BO	TTOM-1	JAI	NUARY	6, 199	4
DEPTH	GA8	BENZ	TOL	EB	XYL	_
11.5	ND	ND	ND	ND	ND].

0.106

ND

ND

NOTES AND LIMITATIONS

THE TABLES AND SUMMARIES OF CHEMICAL DATA PROVIDE A QUICK REFERENCE TO THE MORE COMPLETE INFORMATION IN THE TECHNICAL REPORTS AND CERTIFIED LABORATORY REPORTS.

THIS DIAGRAM WAS NOT SURVEYED OR DRAWN BY A STATE LICENSED SURVEYOR. THE PROPERTY AND OTHER BOUNDARIES THAT MAY BE SHOWN CAN NOT BE USED FOR CONSTRUCTION OR CONSTRUCTION DESIGN.

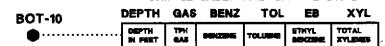
ND

EAST SIDEWALL SIDEWALL SIDEWAL SOUTH **BOTTOM-1** NORTH

WEST SIDEWALL

EXPLANATION OF MAP SYMBOLS

SOIL SAMPLE CHEMICAL ANALYSIS RESULTS IN MG/KG (PPM) SAMPLE LABEL AND SAMPLE DATE



NL - NOT LISTED IN REPORTS

ND - NOT DETECTABLE AT OR ABOVE REPORTING LIMIT NA - NO LABORATORY ANALYSIS OF SOIL SAMPLE

- EXCAVATION LIMIT SOIL SAMPLE WITH LABORATORY RESULTS
- CONTACT BETWEEN SOIL, ROCK, OR FILL MATERIALS
- MAIN BEEPAGE POINTS FOR GROUNDWATER RECHARGE

HORZ SCALE - VERT SCALE

SCALE IN FEET

10 5

APPROXIMATE



TMC ENVIRONMENTAL, INC.

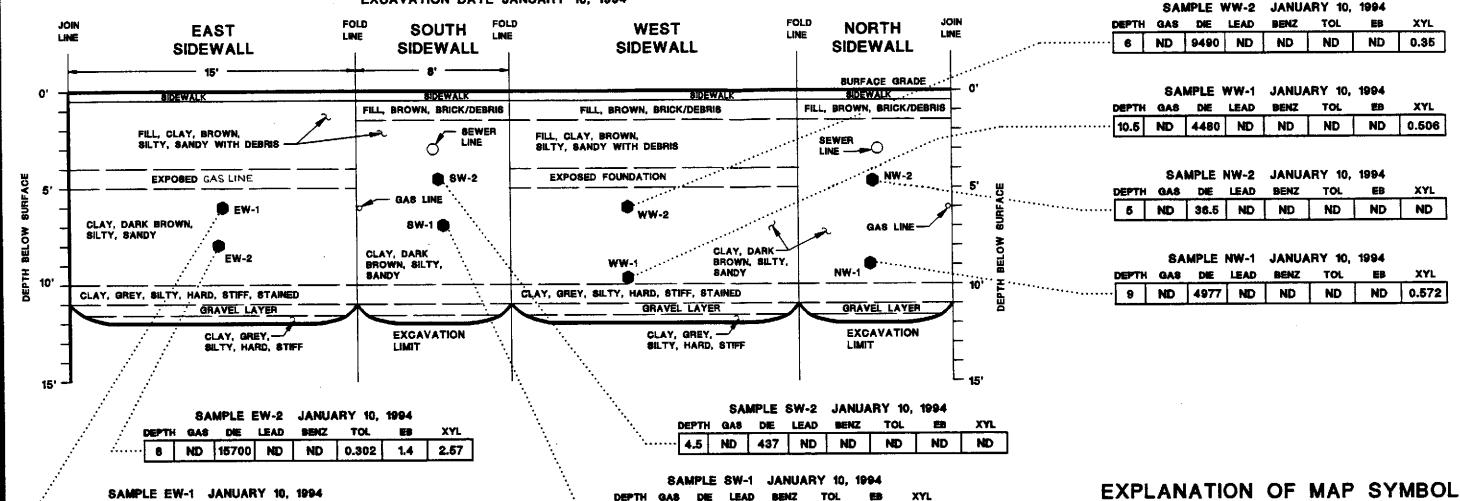
13908 SAN PABLO AVENUE, SUITE 101 SAN PABLO, CALIFORNIA 94806 510-232-8366 FAX 510-232-5133

EXCAVATION LIMIT DIAGRAM WITH SAMPLE LOCATIONS

PAINT THINNER TANK REMOVAL 4529 HORTON ST. EMERYVILLE, CA DATE OF DRAWING: JANUARY 30, 1994 JOB NO. 1-13093

PLATE

FOLD OUT DIAGRAM OF EXCAVATION SIDEWALLS **EXCAVATION DATE JANUARY 10, 1994**



NOTES AND LIMITATIONS

ND

THE TABLES AND SUMMARIES OF CHEMICAL DATA PROVIDE A QUICK REFERENCE TO THE MORE COMPLETE INFORMATION IN THE TECHNICAL REPORTS AND CERTIFIED LABORATORY REPORTS.

THIS DIAGRAM WAS NOT SURVEYED OR DRAWN BY A STATE LICENSED SURVEYOR. THE PROPERTY AND OTHER SOUNDARIES THAT MAY BE SHOWN CAN NOT BE USED FOR CONSTRUCTION OR CONSTRUCTION DESIGN.

BENZ

EAST SIDEWALL SIDEWAL SURFACE VIEW LOOKING DOWN SEWER LINE AT BOTTOM OF OUTH ORTH **EXCAVATION** WEST SIDEWALL

EXPLANATION OF MAP SYMBOLS

SOIL SAMPLE CHEMICAL ANALYSIS RESULTS IN MG/KG (PPM) SAMPLE LABEL AND SAMPLE DATE

BENZ TOL XYL DEPTH GAS DIE LEAD NW-1 TOTAL XYLENES ETHAL TOLUENE

ND - NOT DETECTABLE AT OR ABOVE REPORTING LIMIT

NA - NO LABORATORY ANALYSIS OF SOIL SAMPLE NL - NOT LISTED IN REPORTS

EXCAVATION LIMIT SOIL SAMPLE WITH LABORATORY RESULTS

CONTACT BETWEEN SOIL, ROCK, OR FILL MATERIALS

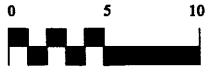
OBSERVATION WELL

HORZ SCALE - VERT SCALE

ND

11100

SCALE IN FEET



APPROXIMATE



XYL

0.51

0.43

TMC ENVIRONMENTAL, INC.

ND

12544

ND

ND

0.163

0.331

0.161

13908 SAN PABLO AVENUE, SUITE 101 SAN PABLO, CALIFORNIA 94806 510-232-8366 FAX 510-232-5133

EXCAVATION LIMIT DIAGRAM WITH SAMPLE LOCATIONS

HEATING OIL TANK REMOVAL 4549 HORTON ST. EMERYVILLE, CA

DATE OF DRAWING: JANUARY 30, 1994 JOB NO. 1-13093

PLATE



ATTACHMENT 1 PAINT THINNER TANK EXCAVATION

ANALYTICAL LABORATORY REPORTS CHAIN-OF-CUSTODY FORMS



chem ENVIRONMENTAL LABORATORIES

Mobile & In-House Laboratories Certified by State of California

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ANALYTICAL REPORT

Page: 1 of 1

Client: TMC Environmental

13908 San Pablo Ave., Ste. 101

San Pablo, CA, CA 94107

11

Attn: Mark Youngkin

Date Sampled: 01/05/94 Date Received: 01/05/94

Date Analyzed: 01/05/94
Batch:SA-322 Matrix: Soil

Conc. Unit mg/kg (ppm)

0.4/ ND / 1.6/ 3.2

Project: 4529 Horton St.

SW-1

"ND" means "not detected" at indicated detection limit.
B:benzene, T:toluene, E:ethylbenzene & X:total xylenes.

Samples received at job-site with a chain of custody record.

8015M/TPH Total SAMPLE I.D. Lead Gasoline /T /E / X DETECTION LIMIT 0.1 ppm l ppm 1 ppm EW-1 0.2/ND / 1.4/2.715 714 0.7/ 0.1/ 3.2/ 10.0 NW-129 3909

WW-1 ND 709 0.3/ ND / 1.7/ 3.0 BOTTOM-1 13 ND ND / ND / ND / ND / ND

842

Reviewed and approved by

Seorg Tsai, Laboratory Director

Geochem environmental Laboratories

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Phone: (408) 955-9988 / FAX: (408) 955-9538

129 / ND / 1140 / 2960

ANALYTICAL REPORT

Page: 1 of 1 ********* Client: TMC Environmental Date Sampled: 01/05/94 Date Received: 01/05/94 13908 San Pablo Ave., Ste. 101 San Pablo, CA, CA 94107 Date Analyzed: 01/05/94 Batch:SA-322 Matrix:Water Attn: Mark Youngkin Conc. Unit ug/L (ppb) (T.Lead Conc.Unit mg/kg(ppm)) Project: 4529 Horton St. ************* "ND" means "not detected" at indicated detection limit. B:benzene, T:toluene, E:ethylbenzene & X:total xylenes. Samples received at job-site with a chain of custody record. Total 8015M/TPH 602 SAMPLE I.D. Lead Gasoline DETECTION 0.5 ppb 50 ppb 1 ppm

535000

PIT-1

ND

Reviewed and approved by Seorge Tsai, haboratory Director

GEOCHEM Environmental Laboratories 780 Montague Expressway, Suite 404 San Jose, CA 95131 (408) 955-9988 • FAX (408) 955-9538

CHAIN OF CUSTODY RECORD

Date	01/05/93	Page	of	
------	----------	------	----	--

TESTS REQUIRED

CLIENT	TMC		PROJEC		79 L	1.000					je Li					
ADDRESS		PROJECT MANAGER A. CAPPELLA MARY YOWERN PHONE NUMBER				∯PH	01)	8015 E/TPH-diesel	8015 M/TPH-gasoline	8020 (602) BTEX	al Lead	Lead				
SAMPLE I.D.	LOCATION DESCRIPTION	DATE	TIME	AIR	MATRIX WATER	SOIL	NO. OF	418.1/TRPH	8010 (601)	3015 E/T	3015 M/	3020 (60	7420/Total Lead	Organic Lead		Archive
		01/05/97		7,111		×	1	*			X	X	X			
<u>5ω-1</u> <u>Eω-1</u>		01103/17	<u></u>			×	1	X			Х	X	Χ			
ww-1						X	١	*			X	X	X		 	
3 _{0770M} -)			45			X	1_	×			X	X	X		 	
PT-1	H20				入		l	\$			X	X	X			
												<u> </u>				
										<u>-</u>	<u> </u>					
Sampled/B	elinguished by:	?	Received	 by:	V. 1	Non	we			01	05	93		Time	 	
Relinquishe	ed by:		Received	by:							•		Date	Time	 	
Relinquishe	ed by:		Received	by:									Date	Time	 	
Turnaround 24 hr.	time: 48 hr. Normal	(3-5 days)	Special I	nstructions											 	

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ANALYTICAL REPORT

Page: 1 of 1

Client: TMC Environmental

13908 San Pablo Ave., Ste. 101

San Pablo, CA, CA 94107

Attn: Mark Youngkin

Date Sampled: 01/06/94
Date Received: 01/06/94
Date Analyzed: 01/06/94

Batch:SA-324 Matrix: Soil Conc. Unit mg/kg (ppm)

Project: 4529 Horton St.

"ND" means "not detected" at indicated detection limit. B:benzene, T:toluene, E:ethylbenzene & X:total xylenes.

Samples received at job-site with a chain of custody record.

Total 8015M/TPH 8015M/TPH 8020

SAMPLE I.D. Lead Diesel Gasoline B / T / E / X

DETECTION LIMIT	1 ppm	1 ppm	1 ppm	0.1 ppm
EW-2	<u>-</u> 4	123	254	ND / ND / ND / ND
EW-3	1	ND	25	ND / ND / ND / ND
NW-2	8	ND	ND	ND / ND / ND / ND
NW-3	3	ND	ND	ND / ND / ND / ND
SW-2	ND	ND	56	ND / ND / ND / 0.1
SW-3	ND	ND	259	ND / ND / 0.3/ 0.6
WW-2	ND	ND	349	ND / ND / 0.5/ 0.6
₩W-3	ND	ND	2630	ND / ND / 2.7/ 5.8
SP 1-4 (Com		- "	85	ND / ND / ND / 0.2
, ,	£ / -			

Reviewed and approved by George Tsai, Laboratory Director



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ANALYTICAL REPORT

				Page: 1 of 1								
Client: TMC 1		tal o Ave.,Ste.1		Sampled: 01/06/94 eceived: 01/06/94								
	Pablo, CA,		Date A	Date Analyzed: 01/06/94 Batch:SA-324 Matrix:Water								
	-		Conc.	Conc. Unit ug/L (ppb)								
Project: 452	*****	*****		*****								
"ND" means "	not detect	ed" at indic E:ethylbenz	ated detect	ion limit. al xylenes.								
Samples rec	eived <u>at_j</u>	ob-site with	a chain of	custody record.								
	Total.	8015M/TPH	8015M/TPH	602 B / T / E / X								
DETECTION LIMIT	1 ppm	50 ppb	50 ppb	0.5 ppb								
PIT-2	ND	ND	ЙD	ND / ND / ND / ND								

Reviewed and approved by Seorge Tsai, haboratory Director

780 Montague Expressway, Suite 404, San Jose, CA 95131

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CHAIN OF CUSTODY RECORD Page__

TESTS REQUIRED

CLIENT	MC ENVIRONAME	NTAL	PROJEC	T NAME Hose s	00 ST	R EET	-				ine					
ADDRES	MC ENVIRONME S 1908 SANFABOO AC	E#19	PROJEC	T MANA(GER	Kul				diese	gaso	TEX	ad			
SANFABLO, CA. 94806		PHONE	PROJECT MANAGER LARK YOUNGYKIN PHONE NUMBER				418.1/TRPH	301)	8015 E/TPH-diesel	8015 M/TPH-gasoline	8020 (602) BTEX	7420/Total Lead	Organic Lead		o)	
SAMPLE	LOCATION				MATRIX		NO. OF	8.17	8010 (601)	15 E	15 N	30 (6	.20⁄T	gani	,	Archive
I.D.	DESCRIPTION	DATE	TIME	AIR	WATER	SOIL	CTNR	4	8	80	8	8	74	Ō		Ā
EW-2		1/6				X	1	*	龚	X	X	X	X			
NW-2		1/6	10:42			X	/	₹	*	X	X	X	X_			
NW-3		1/6	10:50			メ	1	¥	Ž,	X	X	X	X			
LOPITO		1/6	11:27		X		2	¥	#	X	×	ベ	×			
EW-3		1/6	11:40			X	/	\$		X	X	X	X			
P-(1-4)	COMPOSITE	1/6	1:15			X	4	发			X	X	X			
WW-2		1/6	1:40			X	1	*		X	X	X	X			
WW 3		1/6	1:45			χ	1	¥		X	X	X	X			
				_												
Sampled/B	elinguished by:		Received	by:	1	>				1/4	2/91		Date	Time		
Relinquishe	ed by:		Received	by:	5		-						Date	Time		
Relinquishe	ed by:		Received	by:	<i>J</i>					······	•		Date	Time		
Turnaround 24 hr.	l time: 48 hr. Normal	(3-5 days)	Special In	nstructions	:				1_							



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ANALYTICAL REPORT

Client: TMC Environmental

13908 San Pablo Ave., Ste.101

San Pablo, CA, CA 94107

Attn: Marc Edwards

Date Sampled: 01/10/94
Date Received: 01/10/94

Date Analyzed: 01/10/94 Batch:SA-325 Matrix: Soil

Conc. Unit mg/kg (ppm)

Project: 4529 Horton St.

"ND" means "not detected" at indicated detection limit.
B:benzene, T:toluene, E:ethylbenzene & X:total xylenes.

Samples received at job-site with a chain of custody record.

SAMPLE I.D.	Total Lead	8015M/TPH Diesel	8015M/TPH Gasoline	8020 B / T / E / X
DETECTION LIMIT	1 ppm	1 ppm	1 ppm	0.1 ppm
WW4-1-4	ND	ND	ND	ND / ND / ND / ND
WW4-2-6'	ND	ND	380	ND / ND / 0.2/ 0.2
WW5-1-4'	ND	ИD	ND	ND / ND / ND / ND
WW5-2-6'	ND	ND	ND	ND / ND / ND / ND

Reviewed and approved by Seorge Tsai, Laboratory Director

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ANALYTICAL REPORT

Client: TMC Environmental

13908 San Pablo Ave., Ste. 101

San Pablo, CA, CA 94107

Attn: Marc Edwards

Date Sampled: 01/10/94

Date Received: 01/10/94 Date Analyzed: 01/10/94

Batch: SA-325 Matrix: Soil

Conc. Unit mg/kg (ppm)

Project: 4529 Horton St.

"ND" means "not detected" at indicated detection limit. B:benzene, T:toluene, E:ethylbenzene & X:total xylenes.

Samples received at job-site with a chain of custody record.

EPA

SAMPLE I.D.

WW5-1-4'

418.1

LIMIT	1 ppm	
WW4-1-4'	55	
WW4-2-6'	51	

42

WW5-2-6' 53

Reviewed and approved by

prge rsai, Laboratory Director

ATTACHMENT 2 HEATING OIL TANK EXCAVATION

ANALYTICAL LABORATORY REPORTS CHAIN-OF-CUSTODY FORMS

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ANALYTICAL REPORT

Page: 1 of 1

Client: TMC Environmental

13908 San Pablo Ave., Ste. 101

San Pablo, CA, CA 94107

Attn: Mark Youngkin

Date Sampled: 01/10/94 Date Received: 01/10/94

Date Analyzed: 01/10/94

Batch:SA-326 Matrix: Soil Conc. Unit mg/kg (ppm)

Project: Horton St. (Proj.#1-13094)

"ND" means "not detected" at indicated detection limit. B:benzene, T:toluene, E:ethylbenzene & X:total xylenes.

Samples received at job-site with a chain of custody record.

Total 8015M/TPH 8015M/TPH 8020 **SAMPLE I.D.** Lead Diesel Gasoline B / T / E / X

DAME TO	пеаа	DIESEI	Gasotthe	B / I / E / A
DETECTION LIMIT	1 ppm	1 ppm	1 ppm	0.1 ppm
EXC-2 Random	ND	1130	ND	ND / ND / ND / 0.4
EXC-2 EW-1	ND	11100	ND	ND / ND / 0.4/ 0.5
EXC-2 EW-2	ND	15700	ND	ND / 0.3/ 1.4/ 2.6
EXC-2 NW-1	ND	4980	ND	ND / ND / ND / 0.6
EXC-2 NW-2	ND	37	ND	ND / ND / ND / ND
EXC-2 SW-1	ND	12500	ND	ND / 0.2/ 0.3/ 0.2
EXC-2 SW-2	ND	437	ND	ND / ND / ND / ND
EXC-2 WW-1	ND	4480	ND	ND / ND / ND / 0.5
EXC-2 WW-2	ND	9490	ND	ND / ND / ND / 0.4
EXC-2 SP(comp)	6240	ND	ND / ND / 0.2/ 0.4

Reviewed and approved by Seorge Tsai, Laboratory Director



EXC-2 SP(comp)

1720

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ANALYTICAL REPORT

Page: 1 of 1 ************ Client: TMC Environmental Date Sampled: 01/10/94 13908 San Pablo Ave., Ste. 101 Date Received: 01/10/94 San Pablo, CA, CA 94107 Date Analyzed: 01/10/94 Attn: Mark Youngkin Batch:SA-326 Matrix: Soil Conc. Unit mg/kg (ppm) Project: Horton St. (Proj.#1-13094) ******************* "ND" means "not detected" at indicated detection limit. B:benzene, T:toluene, E:ethylbenzene & X:total xylenes. Samples received at job-site with a chain of custody record. EPA SAMPLE I.D. 418.1 DETECTION LIMIT 1 ppm EXC-2 Random 4240 EXC-2 EW-1 14400 EXC-2 EW-2 13200 EXC-2 NW-1 8630 EXC-2 NW-2 87 EXC-2 SW-1 116000 EXC-2 SW-2 48 EXC-2 WW-1 3730 EXC-2 WW-2 11000

Reviewed and approved by George Vsai, Laboratory Director

GEOCHEM Environmental Laboratories 780 Montague Expressway, Suite 404 San Jose, CA 95131

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76R-# 510 116 6625

(44)					
CHAIN	0F	CHST	UDV	RFC	:ORD
VIIAIII	\mathbf{v}	000 1	OD I		

TESTS REQUIRED

CLIENT TMC			PROJECT NAME (#1-13094)														
ADDRES	ADDRESS			PROJECT MANAGER													
				VOUN NUMBER	GKIN			418.1/TRPH	601)	8015 E/TPH-diesel	8015 M/TPH-gasoline	8020 (602) BTEX	7420/Total Lead	c Lead			0
SAMPLE I.D.	LOCATION DESCRIPTION	DATE	TIME		MATRIX		NO. OF CTNR	18.1/	8010 (601)	315 E	015 N	020	420/I	Organic			Archive
	1		IIIVIL	AIR	WATER	SOIL		4	8	8	8	8	7	0			⋖
XC-2 RANGO	Examples Pile Exc. 2 -www1-10.5	1/10/44				X	1	×		K	人	ĸ	X				
wel	Exc. 2 -ww (105	1/10/94	1:30			×	(Κ.		R	~	~	×				
NW-1	Exc. 2 - NW-1 - 9'	1/10	1:50			X		X		X	X	X	K				
NW-2	exc-2 4w-2 - 5'3"	1/10	1:55		_	χ	1	٧		K	X	X	4				
SW-1	Exc. 2 SW-1 - 8'	1/10	2100			X	t	X		X	X	X	X	i			
SW-Z	EXC-25W"2-4.5"	1/10	2:05			X	1	X		X	×	X	X				
5 P(1-2)com	P. STOCKPILE COMPOSITE	1/10	3:40			X	2_			X		X					
WW-2	Exc. 2.ww2-6	1/10	400			X	1	<		人	火	X	X		<u>, </u>		
EW-1	Exc. 2 EW-1 - 6' EXC. 2 EW-1 - 6' EXC. 2 EW-2 - B'	1/10	4:05			X	1	X		X	X	X	X				
EW-Z	EX12EW-2-8'	1/10	408		. (X	1	X		X	X	X	X				
Sampled/R	elinquished by:	,	Received	by:		7				1/	10/	94	Date	Time			
Relinquishe	ed by:		Received	by:	7					7	-+		Date	Time			
Relinquishe	ed by:		Received by:					Date Time									
Turnaround 24 hr.	d time: 48 hr. Normal (3	-5 days)	Special In	structions:					J								

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ANALYTICAL REPORT

Client: TMC Environmental

13908 San Pablo Ave., Ste.101

San Pablo, CA 94107

Attn: Marc Edwards

Date Sampled: 01/12/94

Date Received: 01/17/94 Date Analyzed: 01/19/94

Batch: SA-331 Matrix: Soil Conc. Unit mg/kg (ppm)

Project: 4525-4549 Horton St. (Proj.#1-13093)

"ND" means "not detected" at indicated detection limit.
B:benzene, T:toluene, E:ethylbenzene & X:total xylenes.

Samples received at job-site with a chain of custody record.

TRPH

SAMPLE I.D. 418.1

DETECTION

LIMIT	1 ppm
HAEW-4'	8
HAEW-8'	6

HANW-4' 1300

HANW-7.5' 901

HASW-4' 33

HASW-7.5' 6

HAWW-8' 22

Reviewed and approved by

orge/Tsai, Laboratory Director

chem environmental Laboratories

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Phone: (714) 222-1020 / FAX: (714) 222-0709

ANALYTICAL REPORT

Page: 1 of 1 Date Sampled: 01/17/94 Client: TMC Environmental Date Received: 01/17/94 13908 San Pablo Ave., Ste.101 Date Analyzed: 01/19/94 San Pablo, CA, CA 94107 Batch: SA-331 Matrix: Soil Attn: Marc Edwards Conc. Unit mg/kg (ppm) Project: 4525-4549 Horton St. (Proj.#1-13093) ************* "ND" means "not detected" at indicated detection limit. B:benzene, T:toluene, E:ethylbenzene & X:total xylenes. Samples received at job-site with a chain of custody record. 8015M/TPH 8015M/TPH Total SAMPLE I.D. Gasoline Lead Diesel DETECTION

LIMIT	1 ppm	1 ppm	1 ppm	0.1 ppm
HAEW-4'	20	ND	33	1.2/ 2.6/ 0.7/ 3.
HAEW-8'	19	ND	ND	ND / ND / ND / ND
HANW-4'	9	202	ND	ND / ND / 0.1/ 0.
HANW-7.5'	9	104	ND	ND / ND / 0.2/ 0.
HASW-4'	159	ND	ND	ND / ND / ND / ND
HASW-7.5'	ND	ND	ND	ND / ND / ND / ND
HAWW-8'	ND	ND	ND	ND / ND / ND / ND

Reviewed and approved by

					_		
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~	UU	111	UN	n L	new	JEJI	a.

CHAIN OF CUSTODY RECORD ANALYSIS REQUEST FORM FOR ENVIRONMENTAL SAMPLING

JOB # - 13093	JOB ADDRESS: 4525-4549	~	SAMPLER:	TOM GHIGLIOTTO
LABORATORY NAME		VIRONMENTAL LABORATOR	RIES, SAN J	OSE,CA 95131

LAB ID NO.	SAMPLE NUMBER	SOIL	WATER	DATE	TIME	TVH-GAS BTEX	TEH-DIESEL.	TOTAL LEAD	418.	
	Exc.2 -HAEW-4	X		1/13/94	1000	Х.	×	X	У	,
	Exc.2-HAEW-8'	Χ		1/13/94	1015	×	×	X	Ł	
	Exc. 2-HANW35	X		1/13/44	1030	X	×	X	X	
	Exc. 2- HANW- 4	X		1/13/94	1040	X	人	je.	Х	
	HASW-4'	X		1(13/94	1055	Х.,	Ж	У.	乂	
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	Exc2-44V111J-8	Х		1/13/94	1132	×	X	X	K	
	Dog-H									

Relinquished By:	Ī	Recieved By:
(Print Name) TOM Ging 10 TO	Date: [[3:23	(Print Name) MARG EDWARDS
(Signature)	Time: [(\$0	(Signature)
(Print Name) MARCY CONARDS	Date: 1/17/94	(Print Name) E. Otto
(Signature)	Time: 1,20	(Signature)
(Print Name)	Date:	(Print Name)
(Signature)	Time:	(Signature)
(Print Name)	Date:	(Print Name)
(Signature)	Time:	(Signature)

LABORATORY NOTES: 35 DAYS TURNAROUND TIME FOR ANALYSIS RESULTS
PLEASE INCLUDE SAMPLE CONDITION REPORT WITH RESULTS

PLEASE FAX A COPY OF THE ANALYTICAL RESULTS TO THE FOLLOWING:

BAY AREA TANK REMOVAL AT (415) 512-0680 TMC ENVIRONMENTAL, INC. AT (510) 232-5133

ATTACHMENT 3 GRAB GROUND WATER SAMPLES

ANALYTICAL LABORATORY REPORTS CHAIN-OF-CUSTODY FORMS



Mobile & In-House Laboratories Certified by State of California

Phone: (408) 955-9988 / FAX: (408) 955-9538

ANALYTICAL REPORT

Client: TMC Environmental

13908 San Pablo Ave., Ste. 101

San Pablo, CA 94107

Attn: Marc Edwards

Date Sampled: 01/12/94

Date Received: 01/12/94 Date Analyzed: 01/23/94

Batch: B-610.5 Matrix: Water

Conc. Unit ug/L (ppb)

"ND" means "not detected" at indicated detection limit.
B:benzene, T:toluene, E:ethylbenzene & X:total xylenes.

Samples received at job-site with a chain of custody record.

8015M/TPH

SAMPLE I.D.

Diesel

DETECTION

LIMIT

50 ppb

OB-1-1

ND

Reviewed and approved by George Tsai, Haboratory Director

Geochem ENVIRONMENTAL LABORATORIES

Mobile & In-House Laboratories Certified by State of California

ND / ND / ND / ND

Phone: (408) 955-9988 / FAX: (408) 955-9538

ANALYTICAL REPORT

Page: 1 of 1 **************** Client: TMC Environmental Date Sampled: 01/12/94 Date Received: 01/12/94 13908 San Pablo Ave., Ste. 101 Date Analyzed: 01/12/94 San Pablo, CA, CA 94107 Attn: Marc Edwards Batch:B-610 Matrix: Water Conc. Unit ug/L (ppb) Project: 4549 Horton St. (Conc. Unit for EPA in mg/kg(ppm)) ************ "ND" means "not detected" at indicated detection limit. B:benzene, T:toluene, E:ethylbenzene & X:total xylenes. Samples received at job-site with a chain of custody record. 602 EPA 8015M/TPH 418.1 SAMPLE I.D. B / T / E / X Gasoline DETECTION LIMIT 1 ppm 50 ppb 0.5 ppb

ND

OB - 1 - 1

53

Reviewed and approved by George Tsai, Laboratory Director

GEOCHEM Environmental Laboratories 780 Montague Expressway, Suite 404 San Jose, CA 95131 (408) 955-9988 • FAX (408) 955-9538

CHAIN OF CUSTODY RECORD

Date_	1/11	194	_Page	/	of	/
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TESTS REQUIRED

ADDRESS	ADDRESS			PROJECT NAME 4549 HORTON STREET PROJECT MANAGER MARI FROWARDS PHONE NUMBER (510) 232-8366				ТВРН	601)	8015 E/TPH-diesel	8015 M/TPH-gasoline	8020 (602) BTEX	7420/Total Lead	Organic Lead			Ф
SAMPLE I.D.	LOCATION DESCRIPTION	DATE	TIME		MATRIX WATER		NO. OF CTNR	418.1/TRPH	8010 (601)	8015 E	8015 N	8020 (7420/	Organ			Archive
B-1-1		1/11/14	8:249		X		4	X			X	X					
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Sampled/Re	olingrished by:		Received	by:				<u> </u>		11	12/	94	Date	Time	:10	<u></u>	<u> </u>
Relinquished			Received	by:							<u> </u>		Date	Time			
Relinquished	Relinquished by:			by:						<u> </u>			Date	Time			
Turnaround	time: 48 hr. Norm:	al (3-5 days)	Special Ir	structions	;												

chem environmental Laboratories

Mobile & In-House Laboratories Certified by State of California

Phone: (408) 955-9988 / FAX: (408) 955-9538

ANALYTICAL REPORT

Page: 1 of 1 ************************

Date Sampled: 01/19/94 Client: Bay Area Tank Removal

Date Received: 01/26/94

254 Clara St. Date Analyzed: 01/26/94 San Francisco, CA 94107

Batch:SA-338 Matrix:Water Attn: M. Youngkin Conc. Unit uq/L (ppb)

Project: Horton St. **********

"ND" means "not detected" at indicated detection limit.
B:benzene, T:toluene, E:ethylbenzene & X:total xylenes.

Samples received at job-site with a chain of custody record.

602 8015M/TPH

8015M/TPH B / T / E / X Gasoline SAMPLE I.D. Diesel

DETECTION LIMIT 50 ppb 50 ppb 0.5 ppb

ND / ND / ND / ND ND OB-1-2 ND

Reviewed and approved by U



JOB #

TMC Environmental, Inc. 13908 San Pablo Ave. Suite 101 San Pablo, California (510) 232-8366

JOB ADDRESS:

CHAIN OF CUSTODY RECORD ANALYSIS REQUEST FORM

FOR ENVIRONMENTAL SAMPLING

SAMPLER:

4347 HORTE	المر	<u>ST. (</u>	EMERYNUE	CA.	MARK	E	بطنع	ROS	
									710
SAMPLE NUMBER	SOIL	WATER	DATE	TIME	TVH-GAS BTEX	TEH-OIESEL BTEX			
08-1-2		<u>×</u>	1/19/90	10:54	×	×			
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By:									
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	CURTIS & TO	EAMPLE NUMBER OF	EAMPLE NUMBER ON X OB-1-2 By: Eowness Date Time Date Time Date	EAMPLE NUMBER OF TIME: 1/:/9 Date: Date: CURTIS & TOMPKINS, LTD. 2323 EAMPLE NUMBER OF TIME: 1/:/9 Date: Date: Date:	By: Recieved Date: 1/2/94 (Print Name) Time: (Signature) Date: (Print Name) Time: (Print Name) Time: (Signature) Date: (Print Name)	EAMPLE NUMBER OF TIME	By: Recieved By: Time: 1/:1/9 Gignature) Date: (Print Name) Time: (Bignature) Date: (Print Name) Time: (Print Name) (Print Name)	EXAMPLE NUMBER	By: Recieved By: Time: 1/2/94 (Print Name) Date: (Print Name) Time: (Signature) Date: (Print Name)

PLEASE FAX A COPY OF THE ANALYTICAL RESULTS TO THE FOLLOWING:

BAY AREA TANK REMOVAL AT (415) 512-0680 TMC ENVIRONMENTAL, INC. AT (510) 232-5133

PLEASE INCLUDE SAMPLE CONDITION REPORT WITH RESULTS

Geochem ENVIRONMENTAL LABORATORIES

Mobile & In-House Laboratories Certified by State of California

ND / ND

ND / ND / ND

ND / ND / ND

/ ND

/ ND

/ ND

/ ND

Phone: (408) 955-9988 / FAX: (408) 955-9538

ANALYTICAL REPORT

Page: 1 of 1 ************ Date Sampled: 02/09/94 Client: TMC Environmental Date Received: 02/10/94 13908 San Pablo Ave., Ste. 101 Date Analyzed: 02/10/94 San Pablo, CA, CA 94107 Batch:SA-351 Matrix:Water Attn: Tom Ghigliotto Conc. Unit uq/L (ppb) Project: 4525-4549 Horton St. (Proj.#1-13093) ***************** "ND" means "not detected" at indicated detection limit. B:benzene, T:toluene, E:ethylbenzene & X:total xylenes. Samples received at job-site with a chain of custody record. 8015MTPH 8015M/TPH Gasoline SAMPLE I.D. Diesel DETECTION 0.5 ppb 50 ppb 50 ppb LIMIT ND / ND / ND / ND OB-1A ND

ND

ND

ND

OB-2A

OB-1B

OB-2B

Reviewed and approved by feorge Tsai, Laboratory Director

ADDITIONAL	REQUESTS:	

CHAIN OF CUSTODY RECORD ANALYSIS REQUEST FORM FOR FOR FNVIRONMENTAL SAMPLING

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1-13093	4525-4549 Ha	2704	<u>s 51,</u>	Emezyu	illecA						
LABORATORY NAM	IE: GEOCHEM E						SAN .	JOSE,	CA 9	5131	
			ur.				(0	교			
LAB ID NO.	SAMPLE NUMBER	SOIL	WATE	DATE	Т	IME	TVH-GAS BTEX	TEH-DIES	TOTAL LEAD	, 	
	1-13093-082-218/94	2	X	2/9/0	74 [[40					
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(Signature)			Time:		(Signatus	re)					

LABORATORY NOTES:

DAYS TURNAROUND TIME FOR ANALYSIS RESULTS
PLEASE INCLUDE SAMPLE CONDITION REPORT WITH RESULTS

PLEASE FAX A COPY OF THE ANALYTICAL RESULTS TO THE FOLLOWING:

BAY AREA TANK REMOVAL AT (415) 512-0680

TMC ENVIRONMENTAL, INC. AT (510) 232-5133

ADDITIONAL	REQUESTS:	

CHAIN OF CUSTODY RECORD ANALYSIS REQUEST FORM FOR ENVIRONMENTAL SAMPLING

			}								
JOB #	JOB ADDRESS:					SAMP	LER:	TO	/ GHI	GLIOT	то
1-13093	4525-4549 Ho	eto.	15T.	Emeryill	e CA						
LABORATORY NAM					-	RIES, S	SAN J	OSE,	CA 95	131	
LAB ID NO.	SAMPLE NUMBER	SOIL	WATER	DATE	TI	ME	TVH-GAS BTEX	TEH-DIESEL	TOTAL LEAD		
	1-13093-0B2 A		X	2/8/91	1 11.	25	X				
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	1-13093-OBO		X	2/9/9	1 12	.45	X	X			
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LABORATORY NOTES:

DAYS TURNAROUND TIME FOR ANALYSIS RESULTS
PLEASE INCLUDE SAMPLE CONDITION REPORT WITH RESULTS

PLEASE FAX A COPY OF THE ANALYTICAL RESULTS TO THE FOLLOWING:

BAY AREA TANK REMOVAL AT (415) 512-0680

TMC ENVIRONMENTAL, INC. AT (510) 232-5133

RECORD OF WATER SAMPLE COLLECTION

WELL LABEL: OB-1 DATE COLLECTED: 1-11-94 JOB NUMBER: 1-13093

JOB NAME: RIFKIN PROPERTY SAMPLERS NAME: TOM GHIGHLIOTTO

LOCATION: 4549 HORTON STREET, EMERYVILLE, CALIFORNIA

WELL HEAD COND.:

TIME MEASURED
DEPTH IN FEET
(Measure to 0.01')

06:25	06:35		
8.22	8.22		

WELL PURGING RECORD

TOTAL DEPTH OF WELL: 12.80 DEPTH TO WATER: 8.22 DIAMETER: 2"

PURGE VOLUME = TOTAL DEPTH - WATER DEPTH X VOLUME FACTOR X 3 VOLUMES = 1,200 GALLONS VOLUME FACTOR = 0.17 FOR 2" CASING; 0.65 FOR 4" CASING; 1.47 FOR 6" CASING

PURGE METHOD: H & H VACUUM TRUCK OVA-FID VAPOR READING, ppm:

			WELL PURG	ING PARAMET	TERS .	* With
	GALLONS	TIME	TEMPERATURE degrees F	CONDUCTIVITY x 1000	VISUAL TURBIDITY	Specs pH
Dewater	0	06:40			CLOUDY *	
ewater	620	06:58			CLOUDY	
Dewater	700	07:20			CLOUDY	
ewater	1,000	07:48			· CLEAR W/*	
Dewater	1,100	08:10				
Samples B-1-1	1,200	08:24	50.6	0.58	CLOUDY W/*	6.55
OB-1-2 @ 9.88	1,204	08:45	52.0	0.91	CLOUDY W/*	6.67
					10000	

SAMPLING METHOD: DISPOSABLE BAILER TIME COLLECTED: 08:24 AND 08:45

SAMPLE TURBIDITY: #156.9 #2>200 NTU

RECORD OF WATER SAMPLE COLLECTION

JOB NUMBER: 1-13093 DATE COLLECTED: 1-19-94 WELL LABEL: OB-1 SAMPLERS NAME: TOM GHIGLIOTTO JOB NAME: RIFKIN PROPERTY LOCATION: 4549 HORTON STREET, EMERYVILLE, CALIFORNIA

WELL HEAD COND.:

TIME MEASURED **DEPTH IN FEET** (Measure to 0.01')

water

09:00	09:45	
7.70	7.70	

WELL PURGING RECORD

DIAMETER: 2 **DEPTH TO WATER: 7.70** TOTAL DEPTH OF WELL: 12.44

1,300 GALLONS PURGE VOLUME = TOTAL DEPTH - WATER DEPTH X VOLUME FACTOR X 3 VOLUMES =

VOLUME FACTOR = 0.17 FOR 2" CASING; 0.65 FOR 4" CASING; 1.47 FOR 6" CASING

OVA-FID VAPOR READING, ppm: 0' PURGE METHOD: H & H VACUUM TRUCK

WELL PURGING PARAMETERS

ALLONS	TIME	TEMPERATURE degrees F	x 1000	VISUAL TURBIDITY	р н
0	09:45			CLEAR/SLT. CLOUDY	
950	10:15			CLEAR/SL. CLOUDY *	
1,300	10:50	59.0	1.03	CLOUDY	6.71
				>200	
					
					<u></u>
					<u>]</u>

SAMPLING METHOD:	DISPOSABLE BAILER	TIME COLLECTED:	10:54
SAMPLE TURBIDITY:	>200	1	

RECORD OF WATER SAMPLE COLLECTION

WELL LABEL: OB-1 DATE COLLECTED: 2-9-94 JOB NUMBER: 1-13093

JOB NAME: Rifkin Property SAMPLERS NAME: Tom Ghigliotto

LOCATION: 4525 Horton Street, Emeryville, California

WELL HEAD COND.:

TIME MEASURED
DEPTH IN FEET
(Measure to 0.01')

9:45	10:20	10:50		
6.28	6.28	6.30		

WELL PURGING RECORD

TOTAL DEPTH OF WELL: 12.42 DEPTH TO WATER: DIAMETER: 4"

PURGE VOLUME = TOTAL DEPTH - WATER DEPTH X VOLUME FACTOR X 3 VOLUMES = 1200 GALLONS VOLUME FACTOR = 0.17 FOR 2" CASING; 0.65 FOR 4" CASING; 1.47 FOR 6" CASING

PURGE METHOD: H & H Vacuum Truck OVA-FID VAPOR READING, ppm: 0

WELL PURGING PARAMETERS

GALLONS	TIME	TEMPERATURE degrees F	CONDUCTIVITY x 1000	VISUAL TURBIDITY	рН
o	11:45	60.4	0.94	Sit. Cloudy w/sheen	7.04
~ 400	11:52	60.8	0.96	Slightly Cloudy	7.08
~800	12:10	60.4	0.95	Sit. Cloudy/Clear	7.11
~1100	12:30	58.1	0.93	. Clear	7.01
~ 1200	12:45	58.3	0.93	Clearf	6.98

SAMPLING METHOD: Disposable Bailer TIME COLLECTED: 12:45 and 13:10

SAMPLE TURBIDITY: 31.2 and 8.6

ATTACHMENT 4 WASTE MANIFESTS

See Instructions on back of page 6.

Department of Toxic Substances Control Sucramento, California

UNIFORM HAZARDOUS WASTE MANIFEST	Generator's US EPA ID No.	Manifest Document No.	2. Page 1	Information in the shaded are is not required by Federal lan
3. Generator's Name and Mailing Address	C A C 10 10 10 18 19 15 12 10	8 1 8 8 7 9	of ,	Talan san a
HARVEY RIPKIN / c/o Pl	lank satterwhite			
3220 Monika Lane, Hay		B. Suren	manuary (P)	
4. Generator's Phone (510) 727-0				
5. Transporter 1 Company Name	6. US EPA ID Number			
	Lantini	Callena	ancie (bossi)	tion of the second second
7. Transporter 2 Company Name	8. US EPA ID Number	17 11 11 6 19 Store	icana ine (Siri	
			responsible (A) orter's Phone (A)	
Designated Facility Name and Site Address	iss 10. US EPA ID Number		Facility's ID	
PRC PATTERSON, INC.	is of the following	Company of the Compan	AND ASSESSMENT OF THE PARTY OF	
13331 N. Highway 33		· · · · · · · · · · · · · · · · · · ·	(arPione)	Market Charles on the Second
Patterson, CA. 95363	E A D 0 8 3 1			\$700 CHARLES AND STREET
11. US DOT Description (including Proper St	ipping Name, Hazard Class, and ID Number)	12. Containers No. Type	13. Total Quantity	14. Unit Wt/Vol L. Wasse Number
OIL AND WATER	-			
G NON-RCRA HAZARDOUS W	ASTE LIGHTD	O O I TIT	01300	
E		3 9 12 1 1	<u> </u>	- April 16
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R				EPA/Other
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d.	2			
	•		1 1 1 1	EPA/ONE
E Additional Descriptions for Materials Liste			er Codec los Wa	
OIL THE AMERICAN			41	
	Ton The Health all Parks in the		Carlot Pic. 25	
			C. L. Sirk	ALC: STATE
15. Special Handling Instructions and Additi	onal Information			
JOB #13884 PROFILE		JOR SITE: HA	RVEY RIPK	IN
C4 Ar. Smergency Conta	ct: H & H #(415) 543-4	835 45	49 Horton	Street
<u> </u>	CLOTHING AND RESPIRATO			California
16. GENERATOR'S CERTIFICATION: 1 her	eby declare that the contents of the consignment in all respects in proper condition for transport to	are fully and accurately described which was according to applicable	d above by proper e federal, state and	shipping name and are classi i international laws.
economically practicable and that I have	ertify that I have a program in place to reduce selected the practicable method of treatment	, storage, or disposal currently av	ailable to me whic	in minimizes the present and t
threat to human health and the environ waste management method that is avail	ment; OR, if I am a small quantity generator,	I have made a good faith effort	to minimize my w	aste generation and select the
Printed/Typed Name	Signature	V Straits		Month Day
▼ 7 m man 701 44.		16.34		0 1 1 9
T 17. Transporter 1 Acknowledgement of Rec	eipt of Materials Signature	- Land Control of the		Month Day
Printed Tuned Name PENALVER				9 1 1 3
18. Transporter 2 Acknowledgement of Rec	· -			Maril Dev
T Printed/Typed Name	Signature			Month Day
19. Discrepancy Indication Space				
F				
A C				
L 20 F The O	of receipt of hazardous materials covered by	his manifest except as noted in Ite	m 19.	
T Printed/Typed Name	Signature			Month Day
Y		4		

-174m - 27	James designed for use on elife (12-pi. pewriter.	-	-g	Sacramento, California
	UNIFORM HAZARDOUS	Manifest Document No.		Information in the shaded areas is not required by Federal law.
· · · · · · · · · · · · · · · · · · ·	3. Generator's Name and Mailing Address	1 8 8 7	G of	Alexander of Section 1, 1987 and 1, 1987 and 1
	HARVEY RIFKIN c/o Frank Satterwhite	1.00		
1	3220 Monika Lane, Hayward CA 94541	2 · 42 · 4	The state of the s	water out the members of the section
	4. Generator's Phone (414) 777-11787			A second to the second
	5. Transporter 1 Company Name 6. US EPA ID Number		and the second of the second	and the second second
	H & H Ship Service Company	ا و او او او	The same was the same of the s	
	7. Transporter 2 Company Name 8. US EPA ID Number		The second secon	
			Name of the second seco	
	9. Designated Facility Name and Site Address 10. US EPA ID Number PRC PATTERSON, INC.			
П	13331 N. Highway 33	50 miles		ak of Alabini at the second
	Patterson. CA. 95363			
	. 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containe	rs , 13. Total rpe Quantity	14. Unit Wt/Vol Lavase Number 20
	o. OIL AND WATER			
G	NON-ECRA HAZARDOUS WASTE LIQUID	0 19 11 7	T 011260	G ET CLE
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	d.			and the second s
		A TOTAL TOTAL		
	15. Special Handling Instructions and Additional Information		-	
	308 613855		Harvey Rifk	
	D4 Ht. Emergency Contact: H & H #(415) 543-4835 APPROPRIATE PROTECTIVE CLOTHING AND RESPIRATOR	•	4549 Horton Emeryville.	
	16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of the consignment are	fully and accurately de	cribed above by proper	shipping name and are classified,
	packed, marked, and labeled, and are in all respects in proper condition for transport by hig	hway according to app	licable federal, state and	international laws.
	If I am a large quantity generator, I certify that I have a program in place to reduce the economically practicable and that I have selected the practicable method of treatment, store	volume and toxicity a	f waste generated to the	degree I have determined to be
l	threat to human health and the environment; OR, if I am a small quantity generator, I have waste management method that is avoilable to me and that I can afford.	re made a good faith	effort to minimize my wa	ste generation and select the best
`~	Printed/Typed Name Signature			Month Day Year
<u> </u>	TERRETON ON ONLER TE			0 1 1 1 9
T R A	Printed/Typed Name MARTTN J. COSTELLO Signature NA	^		Month Day Year
N S P'	The last	Want I	A TO	0 1 1 5
O T	18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name Signature			Month Day Year
E R		1	·	
_	19. Discrepancy Indication Space			
F A C		un.		
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Ţ	20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this m Printed/Typed Name Signature	contest except as noted	m (tem 19.	Month Day Year
Y	Clark Sh. July - Mr.	all of		0111131914
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DO NOT WRITE BELOW THIS LINE.

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by

Printed/Typed Name

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T	roved OMB No. 2050–0039 (Expires 9-30-94) It or type. Form designed for use on elite (12-pito	رازان (رازان) به المناسمين ورازان						amento, Californio
•	UNIFORM HAZARDOUS	1. Generator's US EPA	ID No. Ma	vifest Documen	t No.	2. Page I		the shoded area is by Federal law.
	WASTE MANIFEST	CIAIC 0 0 0 0	8 9 6 2 0 8 3	L 8 8	0 5	of 1	<u> </u>	
ŀ	3. Generator's Name and Mailing Address	<u>. </u>			A. Store	Marifest-Document-	Number	
:	HARVEY RIFKIN c/o Fran	k Satterwhite				ر المسلم و المسلم المواجعة ال معادلات المواجعة الم	922	<u> 18805</u>
	3220 Monika Lane, Hayw	ard, CA 94541			B.: State C	Generator's ID		Andreas (Company)
╽┟	4. Generator's Phone (510) 727-02		S EPA ID Number					
	5. Transporter 1 Company Name	-					10200	
	H & H Ship Service Comp	Lany ICIA	D0004777	1111618	D. Iromp	orter's Phone	(415)°5	43-4835
			IS EPA ID Number	- , - - , -	E. Stote 1	ransporter's ID = 2	_	de la
H	7. Transporter 2 Company Name					Keeping Target Tool	and the second second	
					F. Tremp	orter's Phone		
!	9. Designated Facility Name and Site Address	10. U	IS EPA ID Number		G. State	Foolity's ID		
	PRC PATTERSON, INC.					-A 1.0.20.28	TT-0 .a	-/-2-0
	13331 N. Highway 33				H. Focili	800) 2874-	4444	
	Patterson, CA. 95363	IC I	L D 0 8 3 1 6	6 7 2 8	- And Land	Sable Since	Nest through	- The same of
!		-i Name Normal Class	and ID Number)	12. Cor	_	13. Total	14. Unit 25	Westerhumber
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EANSPORTER F.	JOB #13846 24 Hr. Emergency Contact APPROPRIATE PROTECTIVE 14 GENERATOR'S CERTIFICATION: I here packed, marked, and labeled, and are in If I am a large quantity generator, I ce economically practicable and that I have threat to human health and the environ waste management method that is available Printed Typed Name ARC AMAZOS 17. Transporter 1 Admoviedgement of Recei Printed Typed Name ESTEBAN M. PEN 18. Transporter 2 Admoviedgement of Recei Printed/Typed Name	CLOTHING AND by deciare that the content of all respects in proper content is selected the practicable in ment: OR, if I am a small ble to me and that I can a gr of Mareriak ALVER	RESPIRATOR s of the consignment are full dition for transport by highw in in place to reduce the winethod of treatment, storage quantity generator, I have in flord. Signature	y and accurate ay according to blume and toxists or disposal	Elly describe a applicable icity of was currently as	549 HORTON MERYVILLE, d above by proper le federal, state and ste generated to the validable to me which	STREET CA shipping name international if a degree I had a minimizes the size generation Month Q Month U	e and are classifier laws. The determined to be present and further and select the control of t
RANSPORTER	JOB #13846 24 Hr. Emergency Contact APPROPRIATE PROTECTIVE 14 GENERATOR'S CERTIFICATION: I here packed, marked, and labeled, and are in If I am a large quantity generator, I ce economically practicable and that I have threat to human health and the environ waste management method that is available Printed Typed Name ARC AMAZOS 17. Transporter 1 Admoviedgement of Recei Printed Typed Name ESTEBAN M. PEN 18. Transporter 2 Admoviedgement of Recei Printed/Typed Name	CLOTHING AND by deciare that the content of all respects in proper content is selected the practicable in ment: OR, if I am a small ble to me and that I can a gr of Mareriak ALVER	RESPIRATOR s of the consignment are full dition for transport by highw in in place to reduce the winethod of treatment, storage quantity generator, I have in flord. Signature	y and accurate ay according to blume and toxists or disposal	Elly describe a applicable icity of was currently as	549 HORTON MERYVILLE, d above by proper le federal, state and ste generated to the validable to me which	STREET CA shipping name international if a degree I had a minimizes the size generation Month Q Month U	e and are classifier laws. The determined to be present and further and select the control of t
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MAZNAONTER FAUILI	JOB #13846 24 Hr. Emergency Contact APPROPRIATE PROTECTIVE 14 GENERATOR'S CERTIFICATION: I here packed, marked, and labeled, and are in If I am a large quantity generator, I ce economically practicable and that I have threat to human health and the environm waste management method that is availal Printed/Typed Name ESTEBAN M. PEN 18. Transporter I Admoviedgement of Recei Printed/Typed Name ESTEBAN M. PEN 18. Transporter 2 Admoviedgement of Recei Printed/Typed Name 19. Discrepancy indication Space	CLOTHING AND by declare that the content call respects in proper conditions that I have a program selected the practicable in ment: OR, if I am a small ble to me and that I can a S pt of Materials	RESPIRATOR s of the consignment are full dition for transport by highw in in place to reduce the winethod of treatment, storage quantity generator, i have in florid. Signature Signature Signature	y and accurate ay according to blume and tox to, or disposal made a good	dy describe a applicable currently as faith effort	549 HORTON MERYVILLE, d above by proper le federal, state and ste generated to the valiable to me which to minimize my wa	CA shipping name international II a degree I has a minimizes the minimiz	e and are classified laws. The determined to a present and fur and select the control of the co
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NON-HAZARDOUS SPECIAL WASTE MANIFEST

GENE	RATOR
Generator Name HARVEY RIFKIN	Generating Location 4525 - 4549 HORTON STREE
Address 3220 MONIKA LANE	Address EMERY VILLE, CA 94608
HATWARD, CA. 94541	
Phone No. 5/0-7270282	Phone No. 5/0-2328366
BFI Waste Code C A 4 0 5 0 1 0 7 9 4 Description of Waste	Quantity, Units No. Type D - Drum
NON REGULATED PETROLEUM CONTAMINATED	So/c C - Carton B - Bag T - Truck
NON DOT/RCRA REGULATED	P - Pounds Y - Yards O - Other
I hereby certify that the above named material does not conta state law, is not a hazardous waste as defined by 40 CFR Po- classified and packaged, and is in proper condition for transpo	in free liquid as defined by 40 CFR Part 260.10 or any applicable art 261 or any applicable state law, has been properly described, attation according to applicable regulations.
MARC EDWARDS Z Signature	Shipment Date
	SPORTER
Truck No.	Phone No. (800) 838-1497
Transporter Name DEN BESTE TRUCKING	_ Driver Name (Print) NINE Bax Man
Address 709 Mail et	_ Vehicle License No./State 2PA 19 UU
Windsor CA	Vehicle Certification
I hereby certify that the above named material was picked up at the generator site listed above.	I hereby certify that the above named material was delivered with out incident to the destination listed below.
Driver Signature Shipment Date	Driver Signature Delivery Date
	INATION
Site Name BROWNING - FERRIS INDUSTRIES	Phone No. 5 / 0 - 4 4 2 0 4 7 /
Address 4001 N. VASCO ROAD C	LIVERMORE CO 94550
I hereby certify that the above named material has been accepted	and to the best of my knowledge the foregoing is true and accurate
Name of Authorized Agent Signature	Receipt Date
	PASS CODE
,	, , , , , , , , , , , , , , , , , , ,



DUPCICHTES No. 1024739

NON-HAZARDOUS SPECIAL WASTE MANIFEST

GENER	RATOR
Generator Name HARVEY RIFICIAL	Generating Location
Address 3220 MONIKA CANE	Address 4525-4549 HORTON STREET EMERYVILLE CA. 94608
HAYWARD, CA. 94541	EMERYVILLE CA. 94608
Phone No. 510-7270282	Phone No. 510-2328366
BFI Waste Code C 4 4 0 5 0 1 0 7 9 4 Description of Waste	Quantity Units No. Type D - Drum
NON REGULATED DETROLEUM CONTAMINATE	C-Carton
NON DOT/RCRA REGULATED	P - Pounds Y - Yards O - Other
I hereby certify that the above named material does not contain state law, is not a hazardous waste as defined by 40 CFR Par classified and packaged, and is in proper condition for transport	n free liquid as defined by 40 CFR Part 260.10 or any applicable t 261 or any applicable state law, has been properly described, ration according to applicable regulations.
MARC EDWARDS 210	010794
Generator Authorized Agent Name Signature	Shipment Date
THANS	PORTER
Truck No.	Phone No. (800) 838-1477
Transporter Name DEN BESTE TRUCKING	Driver Name (Print) Steve August
Address 709 MAILI CT.	Vehicle License No./State 9C40525
WINDSOR CA.	Vehicle Certification
I hereby certify that the above named material was picked up at the generator site listed above.	I hereby certify that the above named material was delivered without incident to the destination listed below.
Steve User 10799 Oriver Signature Shipment Date	Driver Signature Delivery Date
DEST	NATION
Site Name BROWNING - FETTRIS INDUSTRIES Address 4001 N. VASCO ROAD LI	Phone No. 5/0_447549/
Address 4001 N. VASCO ROAD LI	VERMORE CA: 94550
I hereby certify that the above named material has been accepted a	and to the best of my knowledge the foregoing is true and accurate.
Name of Authorized Agent Signature	Receipt Date
Name of Authorized Agent Signature	
	PASS CODE



aste /stems™ NON-HAZARDOUS SPECIAL WASTE MANIFEST

GENE	RATOR
Generator Name HARVEY RIFKIN	Generating Location
Address 3220 MONIKA LANE	Address 4525-4549 HORTONI STREET
HAYWARD, CA. 94541	EMERYVILLE, CA. 94608
Phone No. 510-7270282	Phone No. 5 10-2328366
BFI Waste Code CA 405 010794 Description of Waste	Quantity Units No. Type D - Drum
NON REGULATED PETROLEUM CONTAMINA	C - Carton
NON DOT/ROZA REGULATED	P - Pounds Y - Yards O - Other
	n free liquid as defined by 40 CFR Part 260.10 or any applicable of 261 or any applicable state law, has been properly described, tation according to applicable regulations.
MARA ERWARDS Z Signature Generator Authorized Agent Name Signature	010794 Shipment Date
	PORTER
ITANS	
Truck No.	Phone No. (800) 838-1477
Transporter Name DEN BESTE TRUCKING	Driver Name (Print) Steve Ayers
Address 209 MAILI CT.	Vehicle License No./State 9040525 Cs
WINDSOZ, CA.	Vehicle Certification
I hereby certify that the above named material was picked up at the generator site listed above.	I hereby certify that the above named material was delivered without incident to the destination listed below.
Driver Signature Shipment Date:	Driver Signature Delivery Date
DESTI	NATION
Site Name BROWNING - FETERIS INDUSTRIES	Phone No. 5 / 0 _ 4 4 7 0 4 9 /
Address 4001 NORTH VASCO BOAD	LIVERLIOIZE, CA. 94550
Address 4001 /4012; H VASCO EDAD	The state of the s
I hereby certify that the above named material has been accepted a	
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I hereby certify that the above named material has been accepted a	and to the best of my knowledge the foregoing is true and accurate.



NON-HAZARDOUS SPECIAL WASTE MANIFEST

GENERATOR	
Generator Name HARVEY RIFKIN	Generating Location
Address 3220 MONIKA LANE	Address 4525-4549 HORTON STREET
HAYWARD, CA. 94541	EMERYVIUE, CA. 94608
Phone No. 5 1 0 - 7 2 7 0 2 8 Z	Phone No. 510-2328366
BFI Waste Code CA 405 010794 Description of Waste	Containers Type Quantity Units No. Type C - Carton B - Bag
NON REGULATED PETROLEUM CONTAMINAT	T - Truck P - Pounds
NON DOT/PCRA REGULATED.	Y - Yards O - Other
I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.	
MARC EDWARDS ZIC	011194
Generator Authorized Agent Name Signature	Shipment Date
Truck No. #/	Phone No. (800) 838-1477
Transporter Name DEN BESTE TRUCKING	Driver Name (Print) (CD) (25)
Address 209 MAILI CT.	Vehicle License No./State 4#87709 /Ch
WINDSOR, CA.	Vehicle Certification ///
I hereby certify that the above named material was picked up at the generator site listed above.	I hereby certify that the above named material was delivered without neident to the destination listed below.
Driver Signature Shipment Date	Driver Signature O1 1 9 4 Delivery Date
DESTI	NATION
Site Name BROWNING - FERRIS INDUSTRIE	5 Phone No. 5 / 0 4 4 7 0 4 9 /
Address 400/ NORTH VASCO ROAD	LIXERMORE, CA. 94550
I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate	
Name of Authorized Agent Signature	Receipt Date
	PASS CODE

7-6601

ATTACHMENT 5 EXCAVATION SOIL SAMPLING PROTOCOL

1.0 SOIL SAMPLING

- 1.1 The soil sampling will commence at selected depths below surface grade as decided by the supervising field geologist or agency representative. If applicable, soil samples will be recovered from lithologic changes, obvious soil contamination areas, from soil-groundwater interface, or from each side wall, and bottom face of the excavation.
- 1.2 Soil samples recovered from the excavation limits (bottom and side walls) of non shored excavations, are recovered in the bucket of a backhoe. Care will be taken to recover relatively non-disturbed soils from the excavation sample points. A representative bucket of soil will be brought to the surface to recover a soil sample. A clean brass liner will be driven, with a clean mallet, into relatively non-disturbed soils in the backhoe bucket. The liner will be driven into the soil materials until no head space remains in the liner. The liner will be immediately sealed with a Teflon circle (or equivalent), capped with a plastic end cap, then sealed with Teflon tape or placed in a plastic bag with a sealing top. The samples will be labeled and immediately delivered to the on site mobile analytical laboratory. Sample jars provided by the laboratory will be used in loose material.
- 1.3 Soil samples from weathered or fractured bedrock will be recovered with the backhoe bucket. A representative bucket of ripped bedrock will be brought to the surface to recover a soil sample. A clean metal liner tube or sample jar provided by the laboratory will be filled by hand with clay fracture filling or small pieces of rock. The liner tube will be filled with clay until no head space remains. The sample will be immediately sealed with a Teflon circle (or equivalent), capped with a plastic cap, then sealed with Teflon tape or placed in a plastic bag with a sealing top. The samples will be labeled and immediately delivered to the analytical laboratory.
- 1.4 A representative sample will be field screened with an organic vapor analyzer, OVA-FID. A small amount of material will be placed in a plastic bag and sealed. The material in the bag will be broken up by hand and allowed to sit for about five minutes. The probe of the OVA will penetrate the plastic bag and sample the material for hydrocarbon vapors. If vapors are detected, then a carbon filter will be placed on the instrument and the measurement repeated to test for methane gas. If a mobile laboratory is present, then the sample recovered for field screening will be immediately delivered to the laboratory for analysis of total recoverable petroleum hydrocarbons (TRPH by EPA method 418.1).
- 1.5 Existing tank pits are commonly found in hard and competent Franciscan Formation bedrock consisting of sandstone, shale, chert, and serpentine. When the bedrock is sufficiently fractured or weathered, soil samples will be collected with the

backhoe equipment. No samples will be recovered in hard and competent bedrock that refuses penetration of the backhoe equipment.

- 1.6 Soil samples from debris boxes, stockpiles, behind vault walls, and shored excavations will be recovered with hand sampling techniques. Care will be taken to recover representative samples of the stockpiled soil. A clean liner tube will be driven, with a clean mallet into the loose soil of the exterior of the pile or side walls of the excavation. The liner will be driven into the soil materials until no head space remains in the liner. The liner tube will be immediately sealed with a Teflon circle (or equivalent), capped with a plastic end cap, then sealed with aluminized tape. Samples from the interior of the pile will be recovered with a pile sampler and placed in a glass sample jar or liner tube by hand. Two to four discrete samples will be recovered from each pile, about one sample for each twenty cubic yards of soil. Samples from behind vault walls will be sampled with a 10 pound sample hammer and 2" x 3" modified California sampler. The samples will be labeled and stored on blue ice for delivery to the analytical laboratory as described above.
- 1.7 All samples retained for chemical analysis will be stored on blue ice in a clean, covered cooler-box for transport to the laboratory. Duplicate samples (if any) will also be transported to the laboratory and refrigerated. Samples will be delivered to the laboratory within 24 hours of sampling.
- 1.8 All samples submitted for analysis by a on site mobile laboratory will be immediately delivered to the lab for sample extraction. Extraction of the sample will be performed immediately. Analysis of the sample will be performed within two hours of extraction.

2.0 WATER SAMPLING FIELD PROCEDURES

- 2.1 The water sampling will commence at a selected depths below surface grade as determined by the supervising field geologist or agency representative according to the leaking underground fuel tank (LUFT) manual guidelines.
- 2.2 Water samples from the excavation bottom will be recovered in a new and disposable PVC bailer dedicated to this project. Care will be taken to recover relatively non-disturbed water from the excavation sample point. A representative bailer of water will be brought to the surface to recover a water sample. For analysis by a mobile laboratory, the water will be poured into two 40 ml VOA sample bottles with no head-space then sealed with Teflon lined caps. For analysis by an off site laboratory, then an additional one liter bottle supplied by the laboratory will be filled from the bailer. The samples will be labeled and stored on ice for delivery to the analytical laboratory.
- 2.3 Samples analyzed on site will immediately be delivered the mobile laboratory for extraction. All samples retained for off site chemical analysis will be stored on blue ice in a clean, covered cooler-box for transport to the laboratory. Duplicate samples (if any) will also be transported to the laboratory and refrigerated. Samples will be delivered to the laboratory within 24 hours of sampling.

3.0 SAMPLE RECORDS AND CHAIN OF CUSTODY

- 3.1 Sample records for each sample will contain information on sample type and source; sampling date; location; significant conditions that may impact the sampling; laboratory name; and sampling method.
- 3.2 A chain of positive, signature custody, and transference will be strictly maintained at all times. A hard copy of the laboratory sample results and the completed chain of custody will be provided with the technical report.