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ENVIRONMENTAL ENGINEERS, INC.

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February 21, 1996

Alameda County Health Care Services Agency
Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
Attn: Ms. Juliet Shin
Hazardous Materials Specialist

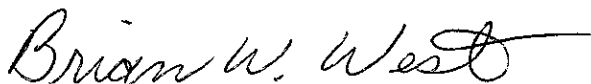
**SUBJECT: SUBMITTAL OF SOIL REMEDIATION REPORT,
WEYERHAEUSER PAPER COMPANY, ALAMEDA CORRUGATED BOX FACILITY,
1801 HIBBARD STR., STID 1202**

Dear Ms. Shin,

West & Associates Environmental Engineers, Inc. respectfully submits our report of findings for the soil remediation project recently concluded at the Weyerhaeuser Paper Company, Alameda Corrugated Box Facility. The project was successfully conducted as proposed in our workplan of September 1995.

As described in our report, we will be conducting pilot tests on the air sparging/ soil vapor collection system in the coming weeks. Additionally, we will be performing quarterly groundwater monitoring. Should you require any additional information please contact me at (707) 451-1360.

Yours truly,



Brian W. West PE
Principal
West & Associates Environmental Engineers, Inc.

BWW/di

Enclosure: Soil Remediation Report

cc: Ed Granados, Weyerhaeuser Office of the Environment, Tacoma
John Hipner, WPC Alameda

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SUSAN B. HARRIS
FEB 27 1996

REMEDIAL ACTION REPORT
SOIL EXCAVATION
and
GROUNDWATER SPARGING SYSTEM CONSTRUCTION

WEYERHAEUSER PAPER COMPANY
1801 HIBBARD STREET
ALAMEDA, CALIFORNIA

Submitted to:

ALAMEDA COUNTY HEALTH CARE AGENCY
DIVISION OF HAZARDOUS MATERIALS
Alameda

Prepared for:

THE WEYERHAEUSER CORPORATION
OFFICE OF THE ENVIRONMENT
TOXIC/SOLID WASTE TEAM
Tacoma, Washington

Prepared by:

WEST & ASSOCIATES ENVIRONMENTAL ENGINEERS, INC.
Vacaville, California

January 1996

ACKNOWLEDGEMENTS

This report was prepared under authorization of the Weyerhaeuser Corporation, Office of the Environment, Toxic/Solid Waste Team, Tacoma, Washington. The Weyerhaeuser project officer is Mr. Ed Granados, mail stop CH 1K29, Tacoma, WA 98477; (206) 924-3934.

At the Weyerhaeuser Paper Company Alameda Corrugated Box plant, both Mr. John Hipner, Plant Engineer and Mr. Tom Muncell, Maintenance Manager, have environmental compliance responsibilities related to this project. The Alameda plant address is 1801 Hibbard Street, PO Drawer X, Alameda, CA 95601; (510) 814-1167.

The lead regulatory agency for the Weyerhaeuser Alameda plant is the Alameda County Health Care Agency, Department of Environmental Health. Ms. Juliet Shin, Hazardous Materials Specialist, is the staff person assigned. The Department of Environmental Health is located at 1131 Harbor Bay Parkway, Suite 250, Alameda, CA 94502-6577; (510) 567-6700.

In the preparation of this remedial action report reliance was made on past site work performed by Soil Tech Engineering, Inc. Material in this report taken directly from a Soil Tech report is so noted. Mr. Frank Hamedi was the Soil Tech Engineering employee most closely associated with the Weyerhaeuser Alameda site. The address for Soil Tech Engineering is 298 Brokaw Road, Santa Clara, CA 95050; (408) 496-0265.

This report was prepared by West & Associates Environmental Engineers, Inc. West & Associates is located at 490 Merchant Street, Suite 104, Vacaville, CA 95688; mailing address, PO Box 5891, Vacaville 95696; (707) 451-1360. Principal author is Mr. Brian W. West PE. (Registered California Civil Engineer No. 32319 - expires 12/31/96). Mr. Brennan Mahoney, Senior Project Manager, also participated in this project and in the preparation of this report.



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EXECUTIVE SUMMARY

The Weyerhaeuser Paper Company Corrugated Box plant in Alameda was formerly equipped with underground gasoline storage tanks. The gasoline tank cluster was removed in 1991, however product leakage from the former tank installation contaminated both soil and groundwater.

Site investigations conducted over the past 4 years have defined both the extent and magnitude of contamination at the WPC site. Groundwater contamination has consistently been found to exceed generally recognized minimum standards. It has been determined that active remediation of both soil and groundwater is necessary to reduce contaminant levels to closure standards in an acceptable period of time.

Based on both technical and economic factors, excavation of contaminated soil combined with construction of a groundwater sparging system was determined to be the best remedial approach. A written workplan proposing such a project was prepared and submitted to the Alameda County Department of Environmental Health in September 1995. Upon County approval, the project was initiated in early October 1995.

During October and November 1995, a total of 830 yd³ of contaminated soil was excavated from the former gasoline tank vicinity. Approximately 420 yd³ of soil was aerated on-site to less than 1 PPM total volatiles and backfilled. An estimated total of approximately 420 yd³ of contaminated soil was transported off-site for landfill disposal.

An estimated total of approximately 50 cubic yards of gasoline contaminated soil was left in place. The soil left in place was impractical to excavate. Residual contamination is located beneath the main plant building, below underground pipelines, adjacent to former excavations backfilled with pea gravel and between various sections of the remedial excavation.

During the excavation and backfill project an air sparging and soil vapor recovery/extraction system was constructed. The sparging system is designed to strip volatile compounds from groundwater. Stripped volatiles will be collected by the vapor recovery system for activated carbon treatment prior to atmospheric discharge.

It is planned to conduct a pilot program to assess the air sparging system effectiveness, determine optimum operating parameters and develop an operating schedule. Continued monitoring of groundwater conditions utilizing existing wells is also a part of the overall sparging program.

1.0 INTRODUCTION

This remedial action report describes the methods used for remediation of soil contamination in the vicinity of a former underground fuel storage tank cluster at the Weyerhaeuser Paper Company (WPC) property in Alameda. Remediation of soil contamination at the WPC site was necessary in order to attain groundwater quality standards.

1.1 Objectives

The objective of this project was to excavate the maximum practical amount of petroleum and solvent contamination from the vicinity of the former underground gasoline storage tank cluster. Specific project objectives include:

- Excavate soil contamination in the vadose zone outside the footprint of the main plant building
- Excavate contamination within the saturated zone as practical
- On-site aeration of excavated soil to less than 1 PPM TPH-gas
- Construct an air sparging grid within the saturated zone of the excavation
- Construct a vapor extraction grid within the vadose zone of the excavation
- Replace and compact aerated soil in the excavation
- Repavement and site restoration
- Transport and disposal of oil contaminated soil
- Transport and disposal of excess gasoline contaminated soil

Proper management of pit water was also an objective of this project.

1.2 Scope

The scope of this project included remediation of soil contamination in the vicinity of the former underground gasoline tank cluster at 1801 Hibbard Street in Alameda. Remediation of groundwater contamination was not a part of this phase of remedial action. It is proposed to operate a groundwater sparging/soil vapor extraction system, now that the majority of soil contamination has been excavated, in order to remediate groundwater contamination. Specifically, the scope of this project includes:

- Identification of underground utilities and pavement removal
- Excavation of contaminated soil
- Proper abandonment of monitoring wells within the excavation area
- Air monitoring
- On-site aeration of contaminated soil in conformance with prevailing environmental regulations
- Soil sampling
- Design and construction of air sparging and vapor extraction grids
- Pit de-watering and proper management of contaminated groundwater
- Site restoration

- Installation of two new monitoring wells
- Project health & safety
- Preparation of a written report of findings

1.3 Summarized Background

The Weyerhaeuser Paper Company (WPC) Alameda facility at 1801 Hibbard Str. manufactures corrugated cardboard boxes. The facility was originally constructed in 1946. Underground fuel tanks had been historically installed at the facility for vehicle, generator and boiler fuel storage. Both gasoline and diesel fuels were formerly stored underground. All underground fuel storage capacity has now been removed, the last remaining underground tank having been taken out in January 1994.

The WPC facility is located on Alameda island in San Francisco Bay. The site is less than 0.25 miles west of the Oakland Inner Harbor. Site soils are predominantly poorly graded sand with minor clay stringers. Groundwater is 3-6 feet below ground surface and tidally influenced.

Two former underground tank installations currently have open case files: the 1991 diesel tank and the 1991 gasoline tank cluster. The 1991 designation refers to the year of removal. This report addresses soil remediation in the vicinity of the 1991 gasoline tank cluster.

The 1991 gasoline tank cluster consisted of three 1,000 gallon gasoline tanks. Apparently, one of the three tanks was used for waste oil storage at some point in time. Gasoline leakage from the 1991 gasoline tank cluster is the predominant environmental problem known to be on-site. Both soil and groundwater contamination exists as a result of 1991 gasoline tank cluster leakage.

There was an attempt at soil remediation made during the 1991 gasoline tank cluster removal. A series of three overexcavations were completed before site constraints rendered further excavation impractical. The final excavation dimensions were reported to be approximately 30'x 30'. Significant soil contamination extended considerably further than the 1991 overexcavation dimensions in the west, north and south directions.

Soil Tech Engineering, Inc. (STE) performed a series of site investigations at the WPC facility beginning in 1991. STE eventually installed seven groundwater monitoring wells and performed periodic groundwater monitoring.

Throughout 1994, West & Associates Environmental Engineers, Inc. conducted further site investigations at the 1991 gasoline tank cluster study area and performed quarterly groundwater monitoring.

A total of four groundwater wells were installed including one (MW-12) inside the main plant building, 20 feet inside the building footprint. The presence of contamination under the main plant building had been confirmed by an angle boring (SB-2) completed in October 1994.

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Based on samples collected between 1991 and 1995, soil and groundwater contamination at the WPC site in the vicinity of the 1991 gasoline tank cluster has been in excess of usually accepted limits. Remedial measures were needed to reduce contaminant levels to closure standards. Excavation was selected as the most appropriate technique to remediate contaminated soil at the site.

2.0 SITE CHARACTERISTICS

In this Section, physical characteristics pertinent to the remedial project are presented.

2.1 Site Location

The Weyerhaeuser Paper Company, Alameda Corrugated Box facility address is 1801 Hibbard Street. The property is located on the northeast corner of Hibbard and Buena Vista Streets. The site is in the city of Alameda and within the County of Alameda. Alameda is in the San Francisco Bay Water Quality Control Region. The WPC site appears on the Oakland West 7.5' USGS topographic map quadrangle.

Figure 1 illustrates the WPC regional setting. The immediate site vicinity is presented on Figure 2.

2.2 Topography and Surface Runoff

The WPC site is on an island in San Francisco Bay. Ground surface at the project site is approximately 15 feet above mean sea level.

The Weyerhaeuser Alameda facility site and surrounding terrain are essentially flat. There is a slight slope from west to east, ie towards the Oakland Inner Harbor. The site and surrounding property are completely developed. The area contains a mix of industrial, commercial and residential land use.

Drainage in and around the project site has been modified to promote runoff to storm drains emptying directly into the Oakland Inner Harbor. The harbor shoreline is less than 0.25 miles east of the WPC property.

2.3 Soils

Shallow soil characteristics at the WPC site are well known due to the many borings completed during various site investigations. Laterally, soil conditions throughout the 1991 gasoline tank cluster study area are fairly uniform. Site soils are predominantly poorly graded medium grained sands with minor silty clay stringers. WPC soil generally falls into the SP classification based on the USCS system. The prevalence of clay stringers increases slightly from north to south.

Vertically, soil conditions under the WPC site are also fairly uniform, although it is only possible to retrieve representative soil samples down to about 12 feet BGS due to groundwater conditions. Vertical pit sidewalls were observed to be quite stable during the 1994 diesel tank removal and it has been noted that borings remain open after auger removal, at least in the 0-10 foot BGS range.

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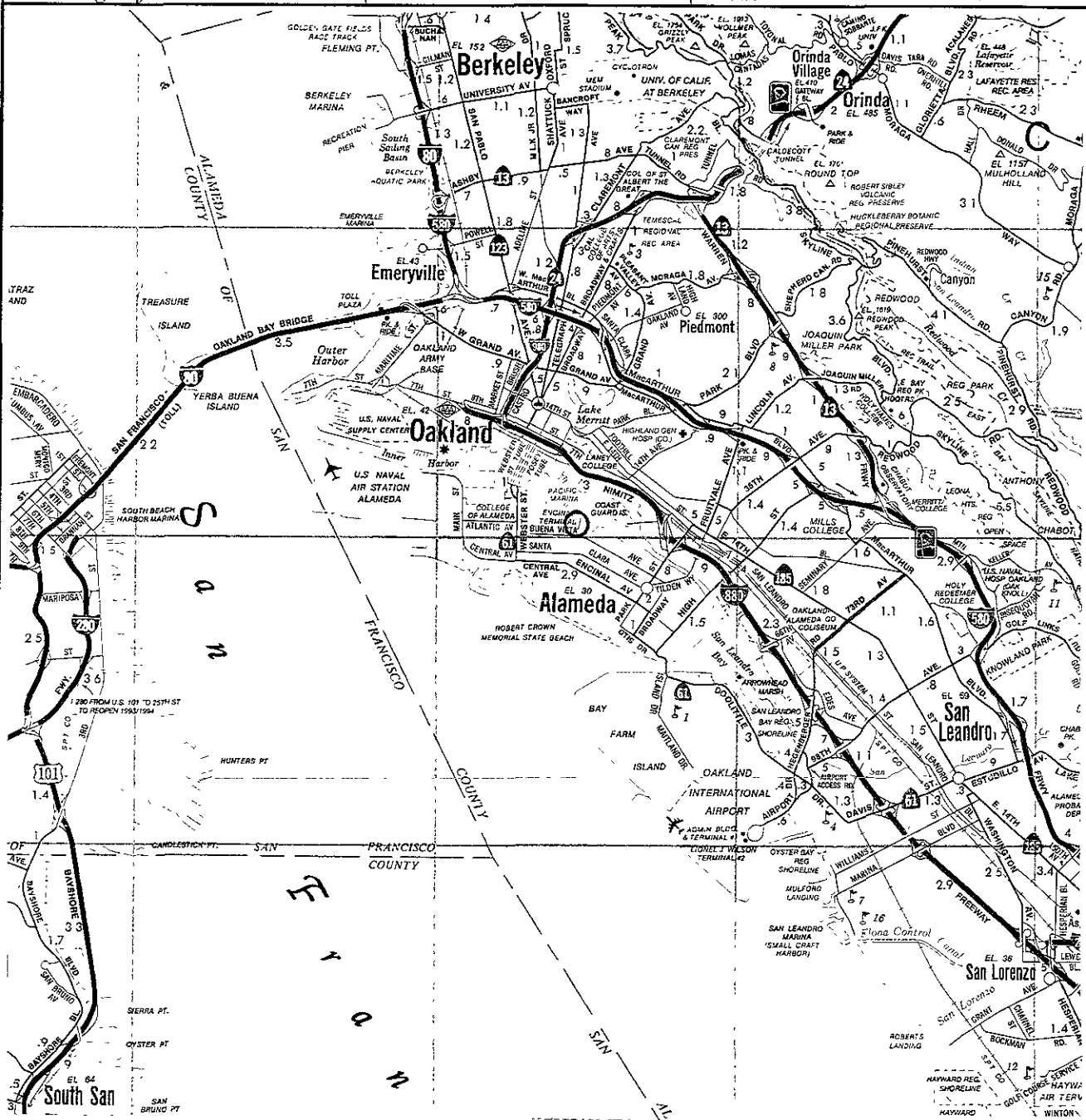
Project Name: Weyerhaeuser Paper Company - Alameda

Date: Jan. 1995

Location: 1801 Hibbard Str., Alameda, California 94501

Drawing By: BWW

Scale: 1" = 2.5 miles



LEGEND

Figure 1

WPC ALAMEDA FACILITY - REGIONAL SETTING

○ SITE LOCATION

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PO Box 5891, Vacaville, California 95696

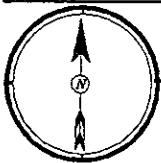
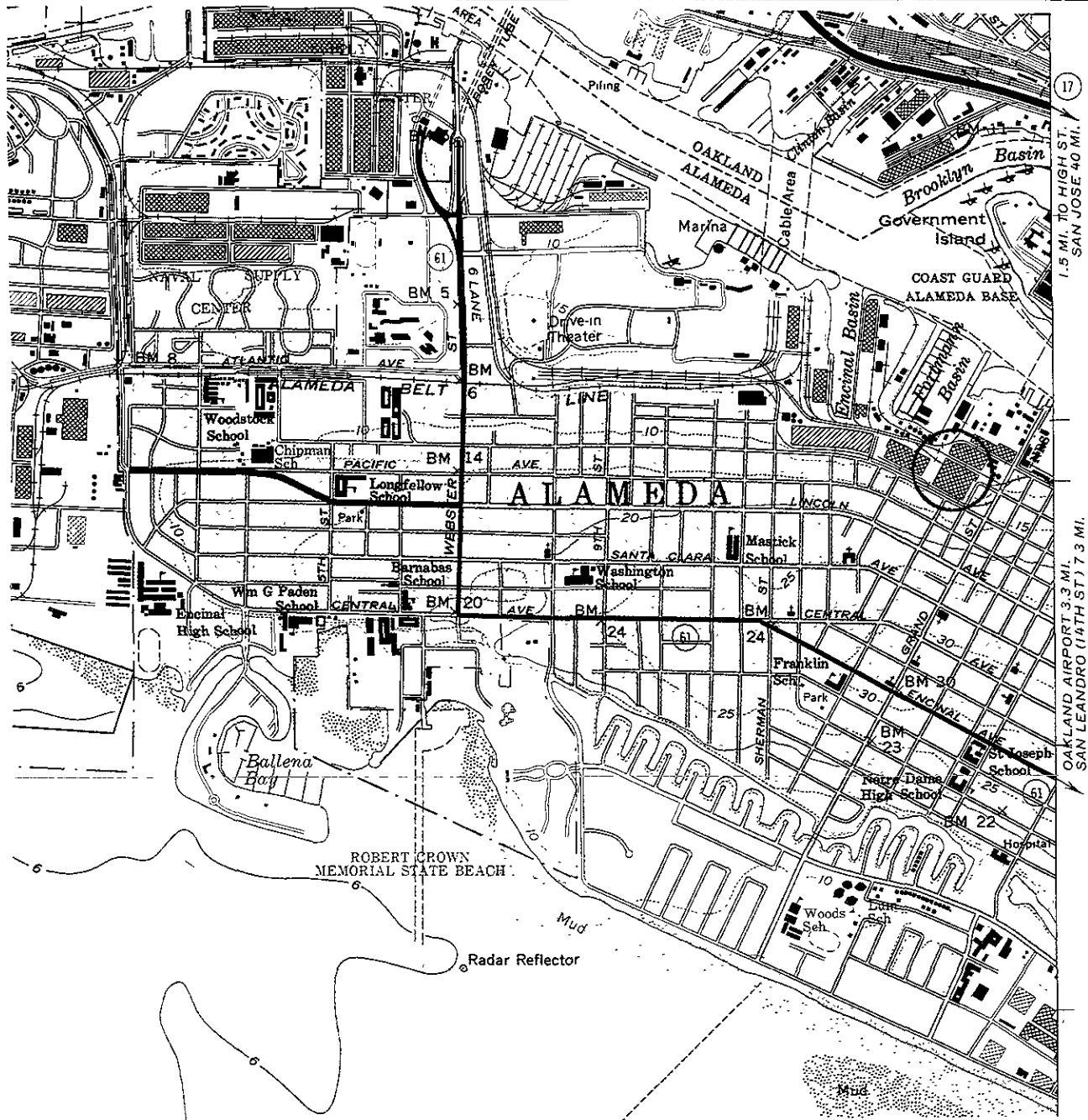
Project Name: Weyerhaeuser Paper Company - Alameda

Date: Jan. 1995

Location: 1801 Hibbard Str., Alameda, California 94501

Drawing By: BWB

Scale: 1" = 0.4 Miles



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WPC ALAMEDA FACILITY - SITE LOCATION
○ SITE LOCATION

Figure 2

2.4 Hydrology

Groundwater is shallow under the Weyerhaeuser Alameda site. Depth to groundwater has been measured as shallow as 2.12 feet (well MW-7, January 8, 1993) BGS and as deep as 8.14 feet BGS (well MW-6, July 31, 1992). Groundwater becomes shallower as one approaches the Oakland Inner Harbor (east of the facility). In general, groundwater levels under the site exhibit the expected seasonal variation of rising during the winter and spring, then falling during the summer and fall.

Soil Tech Engineering computed a groundwater gradient direction on six occasions; once using three wells (MW-1, 2 & 3); twice using six wells (MW-1 - MW-6); and three times using data from all seven wells. The calculated gradient direction has varied as much as 55° if the first measurement (three wells in December 1991) is included or as much as 30° if the first measurement is neglected.

The groundwater gradient direction under the Weyerhaeuser Alameda site is generally to the west. The calculated gradient direction has ranged from a compass heading of 235° to 290° . Former groundwater monitoring well MW-3 would have been in the upgradient direction, with respect to the former gasoline tank cluster, based on these gradient direction calculations.

Observed differences in groundwater elevation between adjacent monitoring wells is surprisingly great considering the topography, homogeneous soil strata, low elevation above mean sea level and close proximity of the Weyerhaeuser site to San Francisco Bay. For instance, there is a consistent differential of one foot in groundwater elevation between monitoring wells MW-5 and MW-6, despite the fact they are only 35 feet apart. *↑ Could it be due to fill material?*

3.0 CONTAMINANT PROFILE

In this Section, the contaminant profile in soils throughout the 1991 gasoline tank cluster study is summarized.

3.1 Overexcavation Sampling

At the time of the gasoline tank cluster removal in 1991, approximately 250 yd³ of soil was overexcavated in three stages. The final excavation dimensions were approximately 30' x 30', as indicated on Figure 3.

A soil sample was collected from each of the four sidewalls of the final overexcavation. The soil sample locations are indicated on Figure 3. Analytical results for the 1991 sidewall soil samples are presented in Table 1.

TABLE 1
SOIL CONTAMINANT CONCENTRATIONS
1991 GASOLINE TANK CLUSTER AREA
OVEREXCAVATION SIDEWALL SAMPLES
All values in ug/kg

SAMPLE ID	DATE	TPH GAS	BENZENE	TOLUENE	XYLENES	ETHYL BENZENE
SOIL - 8	2/91	1,100	38	16	5.0	ND
SOIL - 9	2/91	ND	ND	21	ND	ND
SOIL - 10	2/91	1,200	100	19	26	21
SOIL - 11	2/91	ND	ND	ND	ND	ND

NOTES

Sidewall soil samples SOIL-8 thru SOIL-11 collected at 4.5' BGS
ND: Non-detectable

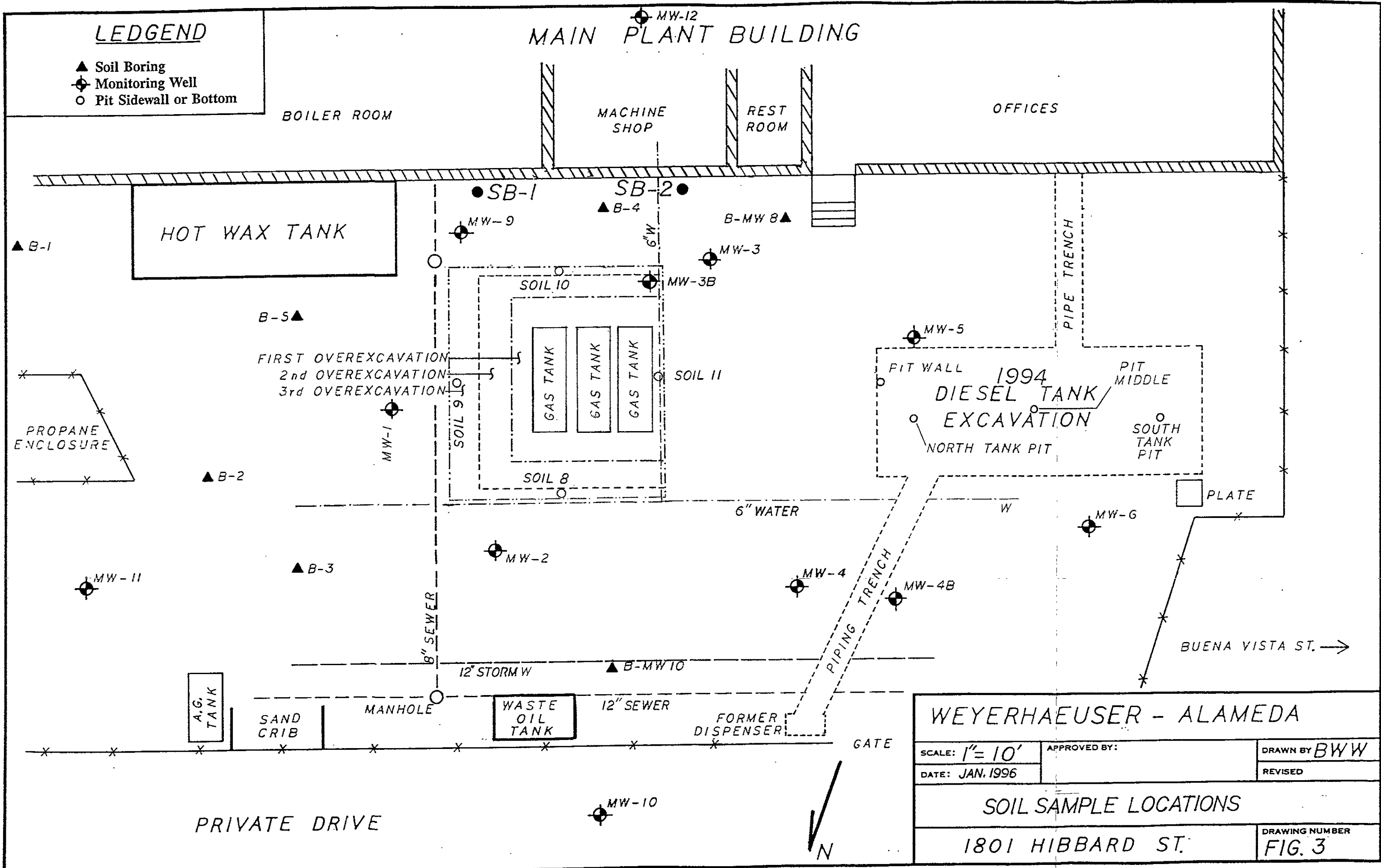
The 1991 overexcavation was limited by site constraints. It was evident both from field observations and analytical results that additional soil contamination was present outside the 1991 overexcavation limits.

3.2 Soil Tech Engineers Investigations

Soil samples were collected by Soil Tech Engineers (STE) during site investigations performed in 1991, 1992 and 1993. STE completed six borings, designated MW-1 thru MW-6, within the 1991 gasoline tank cluster study area. The boring locations are indicated on Figure 3.

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- ▲ Soil Boring
- ⊕ Monitoring Well
- Pit Sidewall or Bottom



WEYERHAEUSER - ALAMEDA		
SCALE: 1" = 10'	APPROVED BY:	DRAWN BY <i>BWW</i>
DATE: JAN. 1996		REVISED
SOIL SAMPLE LOCATIONS		
1801 HIBBARD ST.		DRAWING NUMBER FIG. 3

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STE completed three borings (MW-1 thru MW-3) in December 1991, collecting a total of 6 soil samples. Analytical results for those soil samples are presented in Table 2.

STE completed three additional borings (MW-4 thru MW-6) in April 1992, collecting a total of three soil samples. Analytical results for those soil samples are presented in Table 3.

TABLE 2
SOIL CONTAMINANT CONCENTRATIONS
STE SOIL SAMPLES - December 1991
1991 GASOLINE TANK CLUSTER AREA
All values in ug/kg

SAMPLE ID	TPH GAS	BENZENE	TOLUENE	XYLENES	ETHYL BENZENE
MW-1 (3')	ND	ND	ND	ND	ND
MW-1 (7')	ND	ND	ND	ND	ND
MW-2 (3')	ND	ND	ND	ND	ND
MW-2 (7')	370,000	560	1,000	6,700	1,500
MW-3 (3')	74,000	160	6	790	240
MW-3 (7')	550,000	440	1,000	8,500	1,300

NOTES

Sample MW-3 (3') contained 1,000 ug/kg total oil & grease

ND: Non-detectable

TABLE 3
SOIL CONTAMINANT CONCENTRATIONS
STE SOIL SAMPLES - April 1992
1991 GASOLINE TANK CLUSTER AREA
All values in ug/kg

SAMPLE ID	TPH GAS	BENZENE	TOLUENE	XYLENES	ETHYL BENZENE
MW-4 (5')	ND	ND	ND	ND	ND
MW-5 (5')	ND	ND	ND	ND	ND
MW-6 (5')	ND	ND	ND	ND	ND

NOTES

ND: Non-detectable

3.3 West & Associates Engineers Investigation

In January 1994 West & Associates Engineers completed nine borings in the 1991 gasoline tank cluster study area, collecting 18 soil samples for laboratory analysis. The West & Associates boring locations are indicated on Figure 3.

However, it was noted that analytical results did not correlate well to field observations. Specifically, soil samples which were observed, in the field, to contain significant levels of contamination, appeared to be uncontaminated, based on analytical results.

It was theorized that in-lab handling of the sandy soil samples had resulted in volatile loss. Consequently, six of the 1994 West & Associates soil samples were further analyzed utilizing a "fuel fingerprint in air" procedure which minimized sample handling. A comparison of standard and fuel fingerprint in air analyses for the six soil samples is presented in Tables 4 and 5.

TABLE 4
SOIL SAMPLE ANALYTICAL RESULTS
"FUEL FINGERPRINT IN AIR"
January 1994
all values in PPB by volume

SAMPLE ID	TPH	BENZENE	TOLUENE	XYLENES	ETHYL BENZENE
B-4, 5.5'	9,700	ND	12	440	160
B-MW8, 7'	ND	ND	ND	ND	ND
B-MW10, 5'	34,000	970	130	620	150
B-MW10, 9'	5,700	ND	1.2	100	35
MW-9, 5'	17,000	ND	70	370	60
MW-9, 9'	6,000	180	50	300	280
NORTH END WALL	ND	ND	ND	250	40

NOTES

ND: Not Detected (Minimum detection limit specified on original laboratory report forms)

PPB: Parts Per Billion

Analysis by EPA test method TO-14

It was concluded that the fuel fingerprint in air analyses were more representative of actual site conditions than the results of the standard soil analyses.

TABLE 5
STANDARD ANALYSES - SOIL
January 1994
All Values in mg/Kg

SAMPLE ID	TPH (gas)	BENZENE	TOLUENE	XYLENES	ETHYL BENZENE
B-4, 5.5'	ND	ND	ND	1.2	ND
B-MW8, 7'	ND	ND	ND	ND	ND
MW-9, 5'	ND	ND	ND	ND	ND
MW-9, 9'	ND	0.017	ND	ND	0.099
B-MW10, 5'	ND	ND	ND	ND	ND
B-MW10, 9'	ND	ND	ND	ND	ND
NORTH END WALL	ND	ND	ND	ND	ND

ND: Not Detected, Minimum detection limits for each compound listed on original

laboratory report forms

¹ Heavier molecular weight hydrocarbon compounds were detected

Early in 1994 an underground diesel tank was removed immediately west of the 1991 gasoline tank cluster study area as indicated on Figure 5. Observation of the east wall of the diesel tank excavation indicated minor gasoline contamination.

A sidewall soil sample was collected from the east wall of the diesel tank excavation for laboratory analysis. Results based on standard analytical methodology are presented in Table 5. No detectable contamination was found based on that analytical method. Results based on fuel fingerprint in air analyses is presented in Table 4. That method detected both xylenes and ethyl benzene.

In August 1994 West & Associates completed one hand augered slant soil boring under the building foundation (SB-2) as located on Figure 3. Soil contamination was observed to extend through the depth explored (9 feet BGS) based on field measurement. No samples were collected for laboratory analyses.

In December 1994 West & Associates completed one boring through the floor of the plant building (MW-12), as located on Figure 3. Two soil samples were collected from boring MW-12 for laboratory analyses. No soil contamination was detected.

In summary, based on the site investigations performed, gasoline contamination in soil was known to extend under the main plant building south of the 1991 gasoline tank cluster and almost to the property line north of the former tank cluster location. Traces of soil contamination

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from the 1991 gasoline tank cluster were detected on the east pit sidewall of the 1994 diesel tank excavation west of the former gasoline tank cluster. Soil contamination appears to have been largely removed east of the 1991 gasoline tank cluster.

4.0 REMEDIAL ACTION

During October through December 1995 remedial excavation activities were conducted at the site. Remediation was performed essentially as proposed in "Proposed Remedial Workplan, Soil Excavation and Sparging System Construction" dated September 1995. Contaminated soil was successfully excavated, aerated on-site to concentrations below 1.0 PPM total petroleum hydrocarbons and then replaced in the excavation, with as little soil off-hauling as possible.

During the backfilling process, air sparging and vapor recovery lines were installed in the excavation.

4.1 Air Quality Compliance

The Bay Area Air Quality Management District (BAAQMD) regulates air pollutant emissions from the WPC Alameda location. The BAAQMD allows aeration of gasoline contaminated soils based on the TPH-gas concentration and quantity processed per day.

BAAQMD Rule 8, Regulation 40, Section 301 allows soil aeration in conformance with the following schedule:

ORGANIC CONTENT (ppm)	YD ³ /DAY
2000-2999	15
1000-1999	30
500-999	60
100-499	120

No soil samples from within the excavated area were found to be greater than 500 PPM total volatiles, either by conventional laboratory analysis or by fuel fingerprint in air analysis. Similarly, no soil samples field screened with a PID registered greater than 500 PPM total volatiles. Therefore, soil was aerated in accordance with the 120 yd³ of soil per day guideline. Soil not undergoing active aeration was covered with plastic sheeting.

Due to the space restrictions at the WPC Alameda plant, 120 yd³ was also about the maximum amount of soil that could be aerated at any one time. As soil was excavated, it was screened with a calibrated photoionization detector (PID) to determine total volatile content.

Prior to initiating aeration operations the BAAQMD was notified as required by Rule 40. A completed BAAQMD "Notification Form" was telefaxed to the Enforcement Division at (415) 928-0338 three working days prior to beginning the project.

4.2 Soil Excavation

Prior to conducting any sub-surface work the area was surveyed by Underground Service Alert to identify any non-Weyerhaeuser underground utilities. Additionally, the Weyerhaeuser facility building plans were reviewed to identify company owned underground utilities.

Overlying pavement was removed in a sequenced pattern. Pavement was only removed as necessary in order to retain the maximum paved operating area for machinery.

West & Associates sub contractor All Chemical Disposal, Inc. (San Jose, CA) utilized a Case 680E backhoe equipped with an 18 inch wide bucket to conduct soil excavation activities at the site. As contaminated soil was excavated it was placed in stockpiles west of the excavation area. The stockpile area was paved. Soil stockpiles were placed on plastic sheeting and covered at all times unless soil was actively being added or removed.

Sidewall samples were screened with a PID to determine when complete removal of all contaminated soil had occurred. It was the intent of the project to excavate, to the maximum practical extent, soil contaminated greater than 1 PPM total volatiles.

Soil was excavated in batches of approximately 80 to 120 yd³ each. The entire excavation was made up of a total of five individual excavation zones, designated Zone I through Zone V.

The general approach was to completely excavate and backfill each zone prior to starting another zone. However, occasionally more than one zone remained partially open at a time. The excavation was conducted in a sequenced pattern due to the limited storage area on site for contaminated stockpiles and limited surface area for soil aeration.

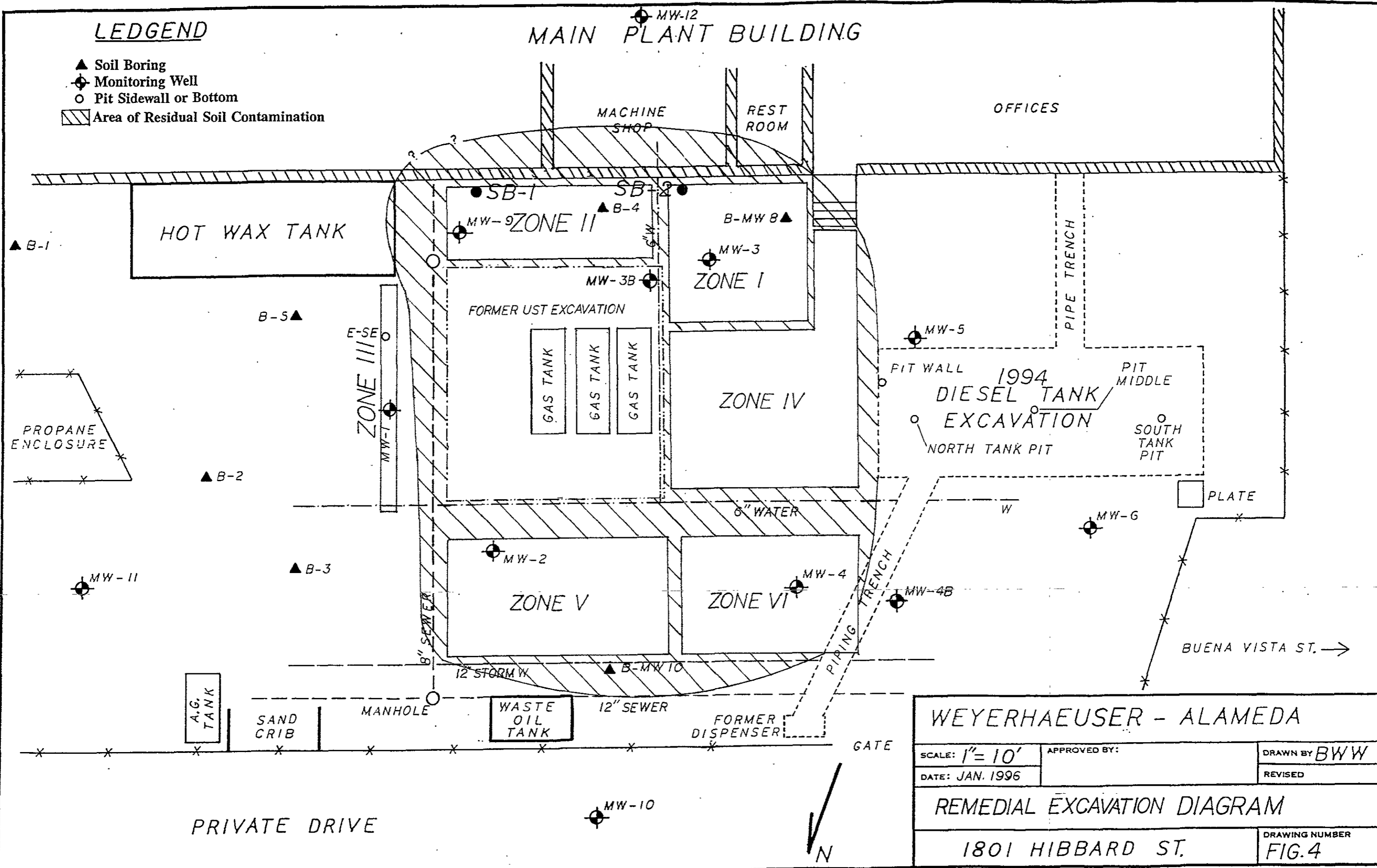
A total of approximately 830 yd³ of contaminated soil was excavated from around the former UGT cluster. The dimensions of the soil contamination plume were found to be generally consistent with previous site investigation findings. The lateral dimensions of the excavation were defined by the edge of the main plant building to the south, clean native soil to the east, underground utilities to the north and the former diesel UGT excavation to the west. The lateral limits of the excavation, including the individually excavated sections are presented on Figure 4.

The vertical profile of the plume displayed two distinct types of contamination found consistently throughout the excavated area. From just below the surface pavement, approximately 6 inches below grade surface (BGS), to approximately 3.5 feet BGS the soil was dark gray to black in color, contaminated with oil residues reportedly from a former steam cleaning operation at the site. From approximately 3 feet BGS to approximately 8.5 feet BGS the soil was blue to gray in color, contaminated primarily with gasoline. Contamination attenuated vertically at approximately 8.5 feet BGS throughout the excavation. The total depth of the excavation was an average of 9.5 feet deep.

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- ▲ Soil Boring
- ⊕ Monitoring Well
- Pit Sidewall or Bottom
- ▨ Area of Residual Soil Contamination

MAIN PLANT BUILDING



WEYERHAEUSER - ALAMEDA		
SCALE: 1" = 10'	APPROVED BY:	DRAWN BY BWW
DATE: JAN. 1996		REVISED
REMEDIATION EXCAVATION DIAGRAM		
1801 HIBBARD ST.		DRAWING NUMBER FIG. 4

The top 3.5 feet of oil contaminated soil was segregated and stockpiled separately pending landfill profiling and subsequent landfill disposal. A total of approximately 250 yd³ of oil contaminated soil was generated.

Approximately 580 yd³ of gasoline contaminated soil was generated. Approximately 75% of the gasoline contaminated soil (approximately 410 yd³) was aerated on site and placed back into the excavation as backfill. The remaining gasoline contaminated soil (approximately 170 yd³) was transported to a landfill for disposal.

← sample results

4.3 Remaining Soil Contamination

Some contaminated soil was left in place in various areas that were not accessible for excavation. The areas are (1) under the main plant building, (2) in and around various underground utilities, (3) adjacent to sidewalls of former overexcavated area and (4) a thin section of soil between each excavation zone. The areas where contaminated soil remains below the site are identified on Figure 4.

It is anticipated that newly installed air sparging lines and vapor recovery lines will adequately mitigate the contaminated soil remaining on site. The most extensive area of contamination remaining in place is underneath the Main Plant Building. During excavation activities hand auger borings were advanced horizontally through contaminated soil under the building to further define lateral attenuation of the contaminant plume and to install air sparging and vapor recovery lines. Contamination was found to extend approximately 6 feet laterally under the building. Details on the sparge line installation are presented in Section 4.7 - Air Sparging System.

4.4 On-Site Soil Aeration

Aeration was promoted by shuttling soil back and forth between two stockpiles. Specifically, a backhoe with a 2 yd³ bucket was used to pick up soil from the one stockpile for transport to and spreading on the second stockpile. Aeration was enhanced by the action of the soil falling 4-5 feet through the air onto the stockpile.

Aeration effectiveness was monitored in the field with a PID. The aeration process took longer, approximately 5 days compared to 2 days as originally predicted, to reduce contaminant concentrations to acceptable levels to be placed back into the excavations. The soil took longer to aerate due to cool weather conditions, loss of daylight hours during fall, and restricted surface area in which to aerate contaminated soil.

When a soil batch was effectively aerated based on field PID readings it was moved into a clean stockpile for use as eventual backfill material. Four point confirmation soil samples were collected from the clean stockpile to verify aeration effectiveness. Soil stockpile sampling protocol and analytical results are presented in Section 4.8.2 and Section 4.10, respectively.

4.5 Pit Water Management

Pit dewatering was generally not necessary at the site. Groundwater did not rapidly seep into the open excavation during digging activities. Excavation activities were coordinated so that backfilling was conducted immediately upon reaching the total depth of each zone of the excavation. Each excavation zone was backfilled to at least 5 feet BGS the same day total depth in that zone was reached. By coordinating most of the excavation and backfill activities this way, groundwater generally did not accumulate in the open excavations.

However, during excavation and backfilling activities in Zone I, the excavation was left open for more than 24 hours prior to backfilling and water did accumulate in the pit. In that circumstance pit de-watering was accomplished by placing an electric submersible pump in the excavation. Extracted groundwater was pumped to a holding tank, filtered and then passed through activated carbon treatment units to remove all gasoline contaminants. Treated water was sampled to verify decontamination effectiveness and then used to adjust backfill soil moisture content for proper compaction. Due to soil drying during aeration, considerable water had to be added during the backfill process in order to permit proper compaction. Treated groundwater accounted for less than 10% of the water added for compaction purposes.

Neither TPH as gas nor BTEX were detected above laboratory detection limits in the treated water sample, identified as WPC DISCHARGE. Laboratory analysis results of the treated groundwater are presented on the laboratory report forms in the appendix.

4.6 Control of Surface Runoff

During periods of rain, all aeration activities were terminated and all soil stockpiles were covered with plastic sheeting. Therefore, no contaminated surface water was generated at the site. Little or no precipitation fell during the project duration. Control of surface runoff was not a major project activity.

4.7 Contaminated Soil Off-Haul

A total of approximately 420 yd³ of contaminated soil was transported to the Vasco Road Landfill in Livermore, California for disposal. Approximately 170 yd³ consisted of gasoline contaminated soil and approximately 250 yd³ consisted of waste oil contaminated soil. The non-hazardous waste manifests are presented in the appendix.

4.8 Soil Sampling

Soil samples were collected from select locations on pit sidewalls to verify the removal of contamination. Visual observations made while excavating were consistent with previous site assessment findings. Soil samples were also collected from the aerated soil pile to confirm remedial effectiveness and from both the gasoline contaminated soil stockpile and the oil contaminated soil stockpile for landfill acceptance purposes.

Laboratory analytical methods and sample analysis results are presented in Section 4.9 - Laboratory Chemical Analysis.

4.8.1 Sidewall Soil Sampling

Contaminated soil was excavated to the maximum extent practical, however, due to both surface and underground obstructions, not all contaminated soil could be excavated.

South of the former tank cluster the plant building impeded excavation. North of the former tank cluster an underground sanitary sewer and storm sewer blocked excavation. Through the middle of the area, an underground fire sprinkler water line prevented complete excavation. Sidewalls also had to be retained around each excavation zone to prevent cave in.

Consequently, contaminated soil was visually apparent on most of the completed excavation sidewalls. The east sidewall of excavation zone II was the only sidewall that appeared to be non-contaminated and was therefore sampled.

The sidewall sample was collected at a depth of 5 feet BGS. That depth was approximately one foot higher than the average groundwater elevation and is the depth at which the greatest TPH-gas concentrations have historically been detected.

Soil samples were collected by digging a quantity of soil from the sidewall at the desired depth with the backhoe bucket. Undisturbed soil samples were collected from the backhoe bucket by pressing a laboratory supplied 16 ounce sample jar into the soil just behind the teeth of the backhoe bucket. Retrieved samples were sealed, labeled, chilled and entered on a chain of custody form. The chain of custody form accompanied the sample set until laboratory delivery. All soil sampling procedures were in conformance with Tri-Regional specifications.

4.8.2 Stockpile Soil Sampling

Soil samples were collected from aerated soil prior to backfill. Sample points were selected at random.

A total of approximately 410 yd³ of gasoline contaminated soil was aerated at the site from which 3 (4 point) confirmation soil samples

were collected, a ratio of 1 sample per 35 yd³ of soil (1 analysis per 130 yd³). Stockpile soil samples were collected randomly throughout the aerated soil.

Soil stockpile samples were collected by pressing a laboratory supplied 16 ounce sample jar into the soil at a depth of approximately 6" below the surface of the spoils. Retrieved samples were sealed, labeled, chilled and entered on a chain of custody form. The chain of custody form accompanied the sample set until laboratory delivery. All soil sampling procedures were in conformance with Tri-Regional specifications.

4.9 Laboratory Chemical Analysis

Chemical analyses were conducted by Pace Incorporated, Anlab and Excelchem Environmental Labs, DHS certified laboratories using EPA approved test methods.

Soil samples were analyzed for Total Petroleum Hydrocarbons and BTXE by a headspace analysis (fuel fingerprint in air). The headspace analysis has proven to be a more representative method of analysis for this site in the past due to the sandy soil characteristics. Previous analysis of samples by standard CA LUFT methods often reported very low contaminant concentrations for highly contaminated samples. This has been attributed to loss of volatiles due to the sandy soil texture.

One gasoline contaminated spoils pile sample was analyzed for TPH-g and BTXE by the CA LUFT method as required for landfill disposal profiling.

One soil sample (WPC-1), collected from the shallow site soil observed to be oil contaminated, was analyzed for Oil and Grease by EPA 413.2, Volatile Organics by EPA 8240, TPH as diesel by CA LUFT Method, CAM 17 Metals by EPA 6010, 7471 and 7740, and for PCBs by EPA 8080. Sample WPC-1 was collected and analyzed for landfill disposal profiling.

Laboratory detection limits are presented on the laboratory data forms presented in the appendix.

4.10 Laboratory Chemical Analysis Results

Laboratory chemical analysis results for sample WPC-1 are presented in Tables 6 and 7. Volatile organics were not detected above laboratory detection limits except for xylene and ethylbenzene which are presented in Table 6.

TABLE 6
SOIL SAMPLE ANALYTICAL RESULTS FOR SOIL SAMPLE WPC-1
October 1995
all values in PPM

SAMPLE ID	TPH AS DIESEL	OIL & GREASE	PCBs	BENZENE	TOLUENE	XYLENES	ETHYL BENZENE
WPC-1	18	ND	ND	ND	ND	1.5	0.38

NOTES

ND: Not Detected (Minimum detection limit specified on original laboratory report forms appearing in Appendix)
PPM: Parts Per Million

TABLE 7
CAM 17 METALS FOR SOIL SAMPLE WPC-1
October 1995

SAMPLE ID	METAL	CONCENTRATION (mg/kg)
WPC-1	Antimony	ND
	Arsenic	5.4
	Barium	68
	Beryllium	0.085
	Cadmium	1.2
	Chromium	20
	Cobalt	3.6
	Copper	10
	Lead	28
	Mercury	0.22
	Molybdenum	ND
	Nickel	5.2
	Selenium	ND
	Silver	ND
	Thallium	6.8
	Vanadium	20
	Zinc	42

Notes

mg/kg: milligrams per kilogram, parts per million

Laboratory chemical analysis results, excluding sample WPC-1, are presented in Table 8.

**TABLE 8
REMEDIAL EXCAVATION SOIL SAMPLE ANALYSIS RESULTS
October - November 1995**

All values in PPM-V by headspace analysis unless otherwise noted

Sample No.	Description	TPH	Benzene	Toluene	Ethyl-benzene	Xylene
SP-1	Excavated Soil	1,200	0.9	ND	ND	0.8
SP-2	Excavated Soil	2,800	1.0	ND	ND	1.9
Sidewal 1 E-SE	East sidewall @ 5' BGS, Section II of excavation	160	ND	ND	ND	ND
SPOILS#	Gasoline contaminated spoils pile (for landfill profiling)	8.8	0.0032	0.011	0.058	0.300
SP1	Aerated soil verification sample	ND	ND	ND	ND	ND
SP2	Aerated soil verification sample	ND	ND	ND	ND	ND
SP4	Aerated soil verification sample	ND	ND	ND	ND	ND

Notes:

PPM-V = Parts Per Million by volume

= TPH as gasoline, results in Parts Per Million, mg/kg

ND = not detected above the laboratory detection limit

TPH = Total Petroleum Hydrocarbons

4.11 Air Sparging System

An air sparging system was constructed in the open excavation. The air sparging system was built as a series of individual grids constructed with 1.5 inch diameter, schedule 40 PVC pipe perforated with either 1/8, 3/16 or 1/4 inch diameter holes (depending on the distance from the air source). An air sparging grid was constructed in each excavation zone. Each grid will be manifolded to an air supply line such that pressures and air flow rates can be regulated and separate sparging zones established, if desired.

The sparging grids were installed at a depth of approximately 9 feet BGS and were bedded in 3/8 inch washed pea gravel. The pea gravel was placed in each section of the excavation from a total depth of approximately 9.5 feet BGS to approximately 7 feet BGS. Soil was then placed on top of the gravel and compacted with a compaction wheel between the depths of approximately 7 and 4 feet bgs. Then a second layer of 3/8 inch pea gravel was applied between the approximated depths of 4 and 3 feet BGS.

(G.W. depth varies between 3-7 bgs)

Within this second layer of gravel vapor recovery lines were installed. The soil vapor recovery/extraction lines were placed at approximately 3.5 feet BGS to complement the air sparging system. The vapor extraction lines were constructed of perforated (0.010 slots) 1.5 inch diameter PVC piping.

From 4 feet to 1 foot below grade surface the excavation was backfilled with clean soil. The clean soil was compacted in 18 inch lifts. A layer of plastic sheeting was installed on top of the compacted soil at a depth of 1 foot BGS to reduce the chance of the vapor recovery system short circuiting to the surface. Basecourse and concrete pavement were then applied.

The sparge grids will promote even distribution of air through the saturated zone and the vapor recover lines will create a slight low pressure area within the unsaturated vadose zone to recover volatiles.

Plan views of the air sparging and vapor recovery line layouts are presented on Figures 5 and 6, respectively. A vertical cross sectional profile of the excavation backfill and construction of the air sparging and vapor recovery system is presented on Figure 7.

In addition to the sparging grids, separate air sparging lines were installed into the contaminated saturated zone under the Main Plant Building. A total of 5 sparging lines were installed below the building at an approximate 45 degree angle in individual 4 inch diameter hand auger borings. Each sparge line extends approximately 7 feet laterally under the building.

The sparge lines were constructed with 1.5 inch diameter schedule 40 PVC pipe. The annulus between the PVC pipe and the borehole was backfilled with coarse aquarium sand throughout the perforated section with a bentonite plug installed at the base.

Above each sparge line that extended under the building a vapor recovery chamber was constructed in the unsaturated zone. The chambers were constructed by auguring a 4 inch diameter hole extending horizontally under the building. The holes were then backfilled with 3/8 inch pea gravel and tied in with the adjacent vapor recovery gravel bed in excavation zone I. The vapor recovery chambers also extend horizontally approximately 7 feet under the building.

A cross sectional profile of sparge line and vapor recovery chamber construction is presented on Figure 7.

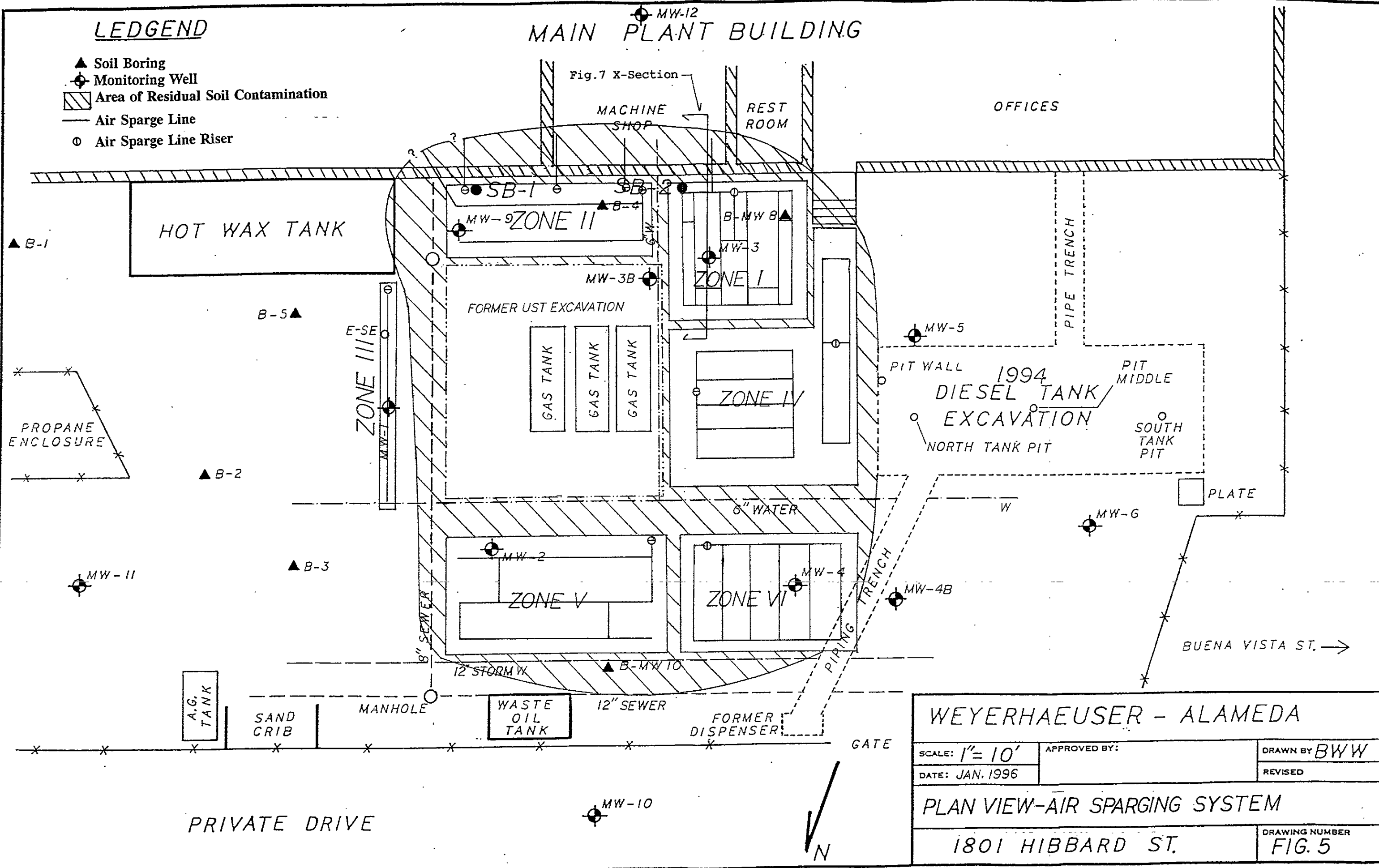
4.12 Site Restoration

The remedial excavation was backfilled as described above in Section 4.8 - Air Sparging System. The material used for backfilling the excavation consisted of remediated (aerated) soil from the excavation, imported soil and imported self compacting pea gravel. All soil was backfilled and compacted in 12 to 18 inch lifts. A plastic vapor barrier was

LEDGEND

- ▲ Soil Boring
- ⊕ Monitoring Well
- ▨ Area of Residual Soil Contamination
- Air Sparge Line
- ⊙ Air Sparge Line Riser

MAIN PLANT BUILDING

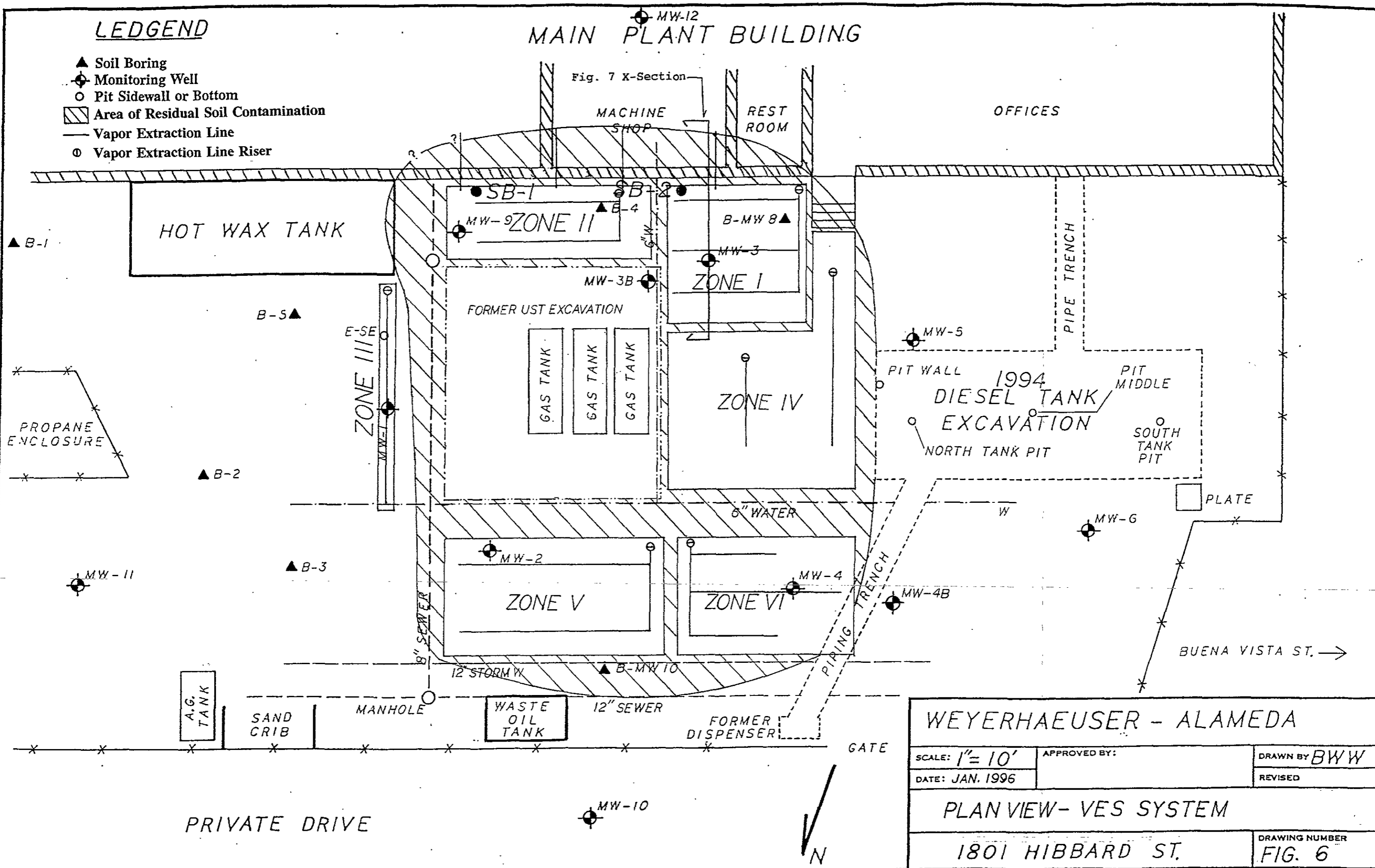


WEYERHAEUSER - ALAMEDA		
SCALE: 1" = 10'	APPROVED BY:	DRAWN BY BWW
DATE: JAN. 1996		REVISED
PLAN VIEW-AIR SPARGING SYSTEM		
1801 HIBBARD ST.		DRAWING NUMBER FIG. 5

LEDGEND

- ▲ Soil Boring
- ⊕ Monitoring Well
- Pit Sidewall or Bottom
- ▨ Area of Residual Soil Contamination
- Vapor Extraction Line
- ⊙ Vapor Extraction Line Riser

MAIN PLANT BUILDING



WEYERHAEUSER - ALAMEDA		
SCALE: 1" = 10'	APPROVED BY:	DRAWN BY BWW
DATE: JAN. 1996		REVISED
PLAN VIEW - VES SYSTEM		
1801 HIBBARD ST.		DRAWING NUMBER FIG. 6

WEST & ASSOCIATES ENVIRONMENTAL ENGINEERS, INC.

P.O. Box 5891, Vacaville, California 95696

Project Name: WPC Alameda Soil Remediation

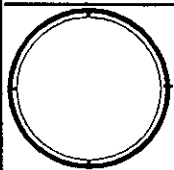
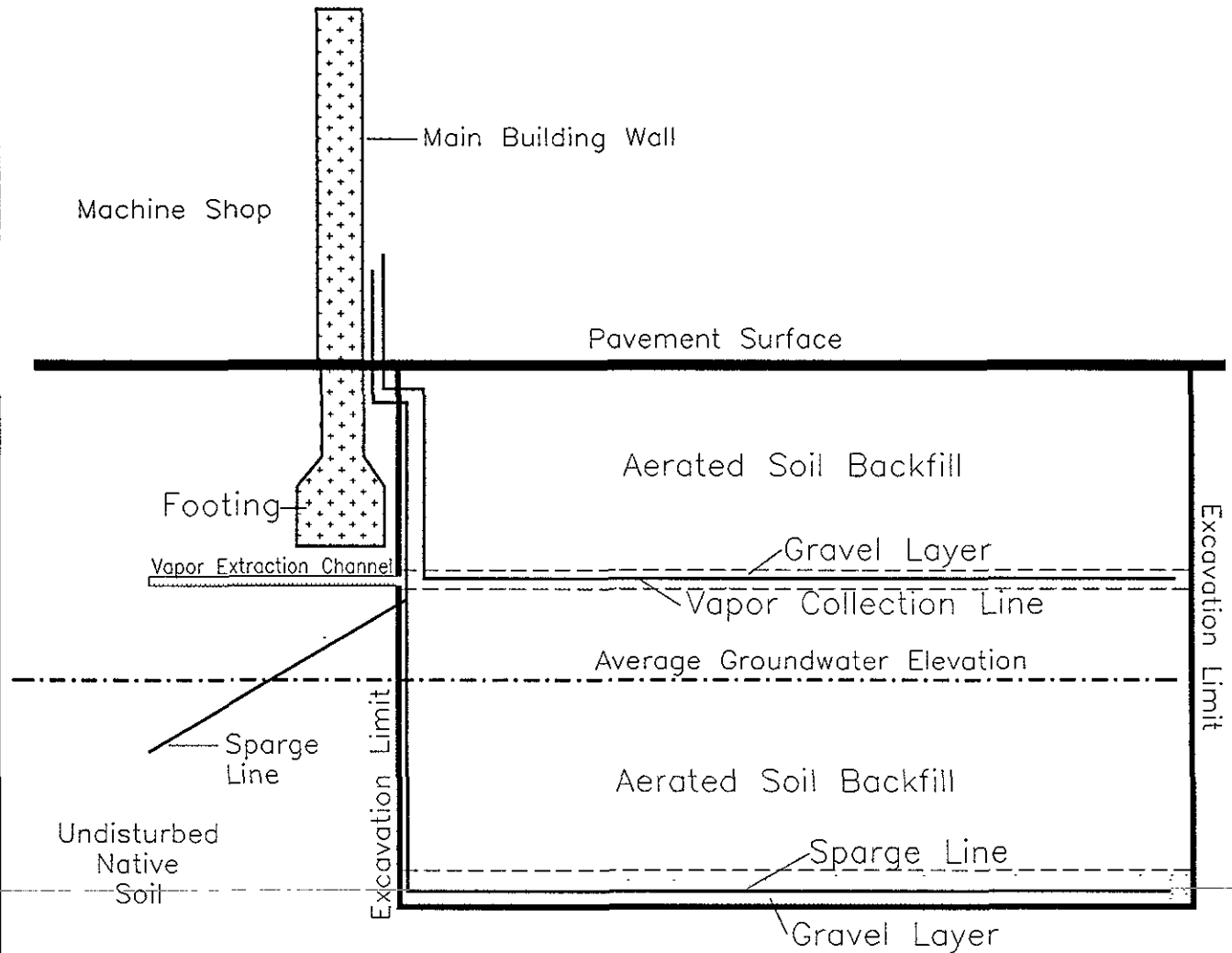
Date: Jan. 1996

Location: Former Gasoline Tank Cluster

Drawing By: BWB

Source: W&A

Scale: 1" = 3'



LEGEND

Figure 7

Zone I Vertical Cross Section

WEST
ASSOCIATES

installed at 1 foot BGS. Six inches of basecourse and 6 inches of concrete were placed on top of the vapor barrier.

Remediated soil was only used for backfill once it was determined to be clean by careful screening with a PID and once initial laboratory analysis results confirmed that field screening with the PID was highly reliable.

5.0 MONITORING WELL REMOVAL AND INSTALLATION

During the excavation program a total of five monitoring wells, MW-1, MW-2, MW-3, MW-4 and MW-9 were removed. These five wells were formerly located within the excavation limits. Monitoring well destruction permits and the monitoring well destruction report are presented in the appendix.

On December 15, 1995 two replacement groundwater monitoring wells were installed at the WPC site. Well installation was supervised by West & Associates Engineers. Drilling services were subcontracted to Exploration Geoservices (EG). EG utilized a truck mounted drill rig equipped with an eight inch diameter hollow stem auger to install the two inch diameter wells.

The wells were placed near former monitoring well locations MW-3 and MW-4 and were identified as MW-3B and MW-4B, respectively. Each well was constructed with 2" diameter Schedule 40 slotted (0.020) PVC casing from total depth, 15' BGS, to 5' BGS. Blank well casing was installed from 5' BGS to approximately 0.5' BGS. The bottom of each well casing was fitted with a 2" flush threaded bottom plug and the top of each well was capped with a locking well cap and contained in a flush graded traffic rated well cover set in concrete.

Monterey No. 3 sand was used to fill the well annulus from total depth to approximately 2 feet above the top of the slotted casing, approximately 3 feet BGS. A one foot bentonite plug was then constructed above the sand filter pack utilizing 3/8" bentonite pellets. Medium bentonite chips were then used to complete the seal to approximately 1' BGS.

Boring logs for both replacement wells are presented in the appendix. The location of both replacement wells is presented on Figure 4.

MW-3B was installed adjacent to an underground water line through a thin section of contaminated soil that was left in place due to the utility. Because the soil in this boring was obviously contaminated between 5 and 9 feet BGS and because contaminated soil in this area has already been defined, no soil samples were retrieved.

MW-4B was installed just outside the northwestern limits of the remedial excavation through clean soil. One soil sample (labeled WPC) was retrieved from boring MW-4B at depth of 6.5' BGS to verify contaminant plume attenuation. The sample was collected in a 2" diameter by 6" long brass sample tube. Upon collection the sample was immediately sealed with teflon film and plastic end caps, labeled and placed in an ice chilled cooler for transportation under chain of custody to Anlab Analytical Laboratory (Sacramento, California) for analysis, a DHS certified lab.

Laboratory results indicated that neither TPH nor BTEX were detected in boring sample WPC by EPA 8015(M) and EPA 8020 test methods, respectively. These results are presented in the appendix.

6.0 CONCLUSIONS AND RECOMMENDATIONS

6.1 Conclusions

The remedial project was successful in removing all contaminated soil within the study area for which excavation was practical. Above ground or sub-surface obstructions prevented 100% effective excavation on three sides of the former tank cluster, however it is estimated that 95% of the contaminant mass was removed.

A total of approximately 250 yd³ of shallow oil contaminated soil was excavated and transported from the site to Vasco Road Landfill (VRL) for disposal. A total of approximately 580 yd³ of gasoline contaminated soil was excavated from a depth between approximately 3.5 to 9 feet BGS. Of the 580 yd³ of gasoline contaminated soil that was excavated approximately 410 yd³ was aerated on site and used as backfill material. Due to poor aeration weather conditions and lack of space on site the other approximately 170 yards of gasoline contaminated soil was transported from the site with the oil contaminated soil to VRL for disposal.

Only 380 yd³ documented in books.

In summary, A total of approximately 420 yd³ (approximately 500 tons) of both gasoline and oil contaminated soil were transported for landfill disposal.

An estimated total of 830 yd³ of contaminated soil, oil contaminated and gasoline contaminated combined, were excavated from the ground below the site.

An estimated total of approximately 50 cubic yards of gasoline contaminated soil was left in place below the site. The soil left in place is located beneath the main plant building, below underground utilities, adjacent to former excavations backfilled with pea gravel and between various sections of the subject remedial excavation. The excavation dimensions along and the estimated dimensions of remaining contaminated soil are presented on Figure 4.

During the excavation and backfill activities conducted at the site an air sparging and soil vapor recovery/extraction system was installed within the excavated area and under the Main Plant Building. Both the air sparging system and the vapor extraction system were constructed with 1.5 inch diameter perforated PVC pipe assembled as large grids in each section of the excavation.

It is anticipated that the newly installed air sparging and vapor extraction systems will have a significant impact on reducing residual contaminant concentrations in the groundwater below the site and in the contaminated soil left in place.

6.2 Recommendations

6.2.1 Pilot Test

In order to establish optimum operating parameters, a pilot air sparging and vapor recovery/extraction test is necessary. The test should determine the appropriate air sparging pressure for each section of the newly installed sparge system. The test should also determine the appropriate amount of vacuum to apply to the vapor recovery system. Final operation parameters should be based on both field test data and laboratory analysis results of effluent air samples.

It is anticipated that the existing compressed air supply at the facility can be utilized for both the pilot test and continual operation of the sparging system. Vapor recovery will most likely be accomplished with a small regenerative blower, with maximum capabilities of 100 CFM @ approximately 6" mercury vacuum, and carbon filters for treatment of volatiles.

6.2.2 Groundwater Monitoring Program

It is recommended that groundwater monitoring should be continued at the site on a quarterly basis. The first quarter of groundwater monitoring activities in 1996 should be conducted prior to the start up of the air sparging system. The first quarter 1996 analytical data will provide baseline information for evaluation of the in-situ remediation system. Groundwater samples should be analyzed for the same constituents as analyzed during the most recent monitoring event, September 1995. Following receipt of first quarter 1996 laboratory analysis results, the necessity of the additional analyses other than for TPH and BTEX should be evaluated.



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CLIENT INFORMATION

Company: WEST & ASSOCIATES Contact Name: BRIAN WEST
 Address: P.O. BOX 5891
 City: VACAVILLE State: CA Zip: 95696
 Billing Address: SAME
 Telephone: (707) 451-1360 FAX: (707) 447-0631
 Project Name: WPC ALAMEDA P.O Number:
 Sampler's Co.: SAME Sampler's Name: B. WEST

Anlab Use Only:

Hours: _____

Miles: _____

Equip.: _____

ANALYSIS

SAMPLE IDENTIFICATION	Date	Time	OIL & GREASE	EPA	Sample Type				Number of Containers				Preservation			
					W	W	S	S	P	G	V	S	T	A	B	
							SOIL	SLUDGE	PLASTIC	GLASS	VOA	STERILE	TEMP	ACID	BASE	
WPC 1	10/5/95		✓	✓			✓			1					✓	

COMMENTS/SPECIAL INSTRUCTIONS:

TURNAROUND TIME:

24 HOUR 48 HOUR 72 HOUR
 5 DAY STANDARD
 QC LEVEL: 1 2 3

SAMPLE DISPOSAL: HOLD
 RETURN DISPOSE

SHIPPED VIA: HAND
 UPS FED-EX BUS

SAMPLE RELINQUISHED BY	PRINT NAME/COMPANY	DATE/TIME	RECEIVED BY	PRINT NAME/COMPANY
<i>[Signature]</i>	BRENAN MALONCE/W & A	10/6/95	<i>[Signature]</i>	ANLAB

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ANALYTICAL LABORATORY

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November 1, 1995

West & Associates Environmental Engineers
 P.O. Box 5891
 Vacaville, CA 95696
 Attn: Brian West

Project: WPC Alameda

Anlab I.D. AE21205
SAMPLE DESCRIPTION: WPC1
 Sample collection date: 10/05/95
 Lab submittal date: 10/06/95
 Turn-Around-Time: REG

Client Code: 891
 Matrix: S
 Time:
 Time: 13:53
 Sample Disposal: LAB

TEST PARAMETER	UNITS	TEST RESULT	DETECTION LIMIT
Multicomponent analysis: EPA 8240 VOLATILE ORGANICS			(*)
Surrogate 1 (1,2-DCA-d4)	mg/kg	101	70-121
Surrogate 2 (Toluene-d8)	mg/kg	102	84-138
Surrogate 3 (4-BFB)	mg/kg	69	59-113
Benzene	mg/kg	ND	0.10
Bromodichloromethane	mg/kg	ND	0.10
Bromoform	mg/kg	ND	0.10
Bromomethane	mg/kg	ND	0.20
Carbon tetrachloride	mg/kg	ND	0.10
Chlorobenzene	mg/kg	ND	0.10
Chloroethane	mg/kg	ND	0.20
2-Chloroethylvinyl ether	mg/kg	ND	0.20
Chloroform	mg/kg	ND	0.10
Chloromethane	mg/kg	ND	0.20
Dibromochloromethane	mg/kg	ND	0.10
1,2-Dichlorobenzene (o-DCB)	mg/kg	ND	0.10
1,3-Dichlorobenzene (m-DCB)	mg/kg	ND	0.10
1,4-Dichlorobenzene (p-DCB)	mg/kg	ND	0.10
1,1-Dichloroethane (1,1-DCA)	mg/kg	ND	0.10
1,2-Dichloroethane (1,2-DCA)	mg/kg	ND	0.04
1,1-Dichloroethene (1,1-DCE)	mg/kg	ND	0.10
trans-1,2-Dichloroethene	mg/kg	ND	0.10
1,2-Dichloropropane	mg/kg	ND	0.10
cis-1,3-Dichloropropene	mg/kg	ND	0.10
trans-1,3-Dichloropropene	mg/kg	ND	0.10
Ethyl benzene	mg/kg	0.38	0.10
Dichloromethane (MeCl2)	mg/kg	ND	0.20



Page: 2 of 4

November 1, 1995

West & Associates Environmental Anlab I.D. AE21205 (continued)

TEST PARAMETER	UNITS	TEST RESULT	DETECTION LIMIT

Multicomponent analysis: EPA 8240 VOLATILE ORGANICS (continued)			(*)
1,1,2,2-Tetrachloroethane	mg/kg	ND	0.10
Tetrachloroethene (PCE)	mg/kg	ND	0.10
Toluene	mg/kg	ND	0.10
1,1,1-Trichloroethane (1,1,1-TCA)	mg/kg	ND	0.10
1,1,2-Trichloroethane (1,1,2-TCA)	mg/kg	ND	0.10
Trichloroethene (TCE)	mg/kg	ND	0.10
Trichlorofluoromethane (Freon 11)	mg/kg	ND	0.10
Vinyl chloride (VC)	mg/kg	ND	0.20
Xylenes	mg/kg	1.5	0.10
Total Grease & Oil by EPA 413.2	mg/kg	ND	30
Multicomponent analysis: TPH by LUFT Method			
Diesel range	mg/kg	15	1.0
Total Petroleum Hydrocarbons as D	mg/kg	18	
Antimony	EPA 6010 mg/kg	ND	2.5
Arsenic	EPA 6010 mg/kg	5.4	5.0
Barium	EPA 6010 mg/kg	68	0.50
Beryllium	EPA 6010 mg/kg	0.085	0.050
Cadmium	EPA 6010 mg/kg	1.2	0.50
Chromium	EPA 6010 mg/kg	20	0.50
Cobalt	EPA 6010 mg/kg	3.6	1.0
Copper	EPA 6010 mg/kg	10	0.50
Lead	EPA 6010 mg/kg	28	2.5
Mercury	EPA 7471 mg/kg	0.22	0.050
Molybdenum	EPA 6010 mg/kg	ND	1.0
Nickel	EPA 6010 mg/kg	5.2	1.0
Selenium	EPA 7740 mg/kg	ND	0.25
Silver	EPA 6010 mg/kg	ND	0.50
Thallium	EPA 6010 mg/kg	6.8	5.0
Vanadium	EPA 6010 mg/kg	20	0.50
Zinc	EPA 6010 mg/kg	42	0.25

Multicomponent analysis: PCB's by EPA 8080			
PCB 1016	mg/kg (ppm)	ND	0.01
PCB 1221	mg/kg (ppm)	ND	0.01
PCB 1232	mg/kg (ppm)	ND	0.01
PCB 1242	mg/kg (ppm)	ND	0.01
PCB 1248	mg/kg (ppm)	ND	0.01
PCB 1254	mg/kg (ppm)	ND	0.01
PCB 1260	mg/kg (ppm)	ND	0.01



Page: 3 of 4

November 1, 1995

West & Associates Environmental Anlab I.D. AE21205 (continued)

SAMPLE DESCRIPTION: METHOD BLANK

Matrix: S

Client Code: 891

Sample collection date: NA

Time: NA

Lab submittal date: NA

Time: NA

Turn-Around-Time: REG

Sample Disposal: LAB

TEST PARAMETER	UNITS	TEST RESULTS	DETECTION LIMIT

Multicomponent analysis: EPA 8240 VOLATILE ORGANICS			
Benzene	mg/kg	ND	0.0050
Bromodichloromethane	mg/kg	ND	0.0050
Bromoform	mg/kg	ND	0.0050
Bromomethane	mg/kg	ND	0.010
Carbon tetrachloride	mg/kg	ND	0.0050
Chlorobenzene	mg/kg	ND	0.0050
Chloroethane	mg/kg	ND	0.010
2-Chloroethylvinyl ether	mg/kg	ND	0.010
Chloroform	mg/kg	ND	0.0050
Chloromethane	mg/kg	ND	0.010
Dibromochloromethane	mg/kg	ND	0.0050
1,2-Dichlorobenzene (o-DCB)	mg/kg	ND	0.0050
1,3-Dichlorobenzene (m-DCB)	mg/kg	ND	0.0050
1,4-Dichlorobenzene (p-DCB)	mg/kg	ND	0.0050
1,1-Dichloroethane (1,1-DCA)	mg/kg	ND	0.0050
1,2-Dichloroethane (1,2-DCA)	mg/kg	ND	0.0020
1,1-Dichloroethene (1,1-DCE)	mg/kg	ND	0.0050
trans-1,2-Dichloroethene	mg/kg	ND	0.0050
1,2-Dichloropropane	mg/kg	ND	0.0050
cis-1,3-Dichloropropene	mg/kg	ND	0.0050
trans-1,3-Dichloropropene	mg/kg	ND	0.0050
Ethyl benzene	mg/kg	ND	0.0050
Dichloromethane (MeCl2)	mg/kg	ND	0.010
1,1,2,2-Tetrachloroethane	mg/kg	ND	0.0050
Tetrachloroethene (PCE)	mg/kg	ND	0.0050
Toluene	mg/kg	ND	0.0050
1,1,1-Trichloroethane (1,1,1-TCA)	mg/kg	ND	0.0050
1,1,2-Trichloroethane (1,1,2-TCA)	mg/kg	ND	0.0050
Trichloroethene (TCE)	mg/kg	ND	0.0050
Trichlorofluoromethane (Freon 11)	mg/kg	ND	0.0050
Vinyl chloride (VC)	mg/kg	ND	0.010
Xylenes	mg/kg	ND	0.0050

NA = Not Applicable

ND = Not Detected



ANALYTICAL LABORATORY

1910 S STREET SACRAMENTO, CALIFORNIA 95814 • 916-447-2946 • FAX 916-447-8321

Page: 4 of 4

November 1, 1995

West & Associates Environmental Anlab I.D. AE21205 (continued)

* Increased detection limit due to dilution. Sample matrix interfered with analyte quantitation when analyzed undiluted.

Note: Surrogate results are in percent recovery units. Detection Limit field represents the acceptable QC range for recoveries.

Case Narrative:

Analysis: TPH Luft

There were some lighter and heavier hydrocarbons compared to diesel in the sample. The patterns of the peaks did not match the diesel standard. TPH as diesel was reported for the sample. There was no matrix spike performed due to insufficient sample.

Report Approved By:
ELAP ID #: 1468

Patty Bucknell

:rdm



262064

ENVIRONMENTAL LABORATORIES

CHAIN-OF-CUSTODY RECORD Analytical Request

Client West & Associates
Address 490 Merchant STR
SUITE 104, VACAVILLE 95688
Phone 707 451 1360

Report To: Same
Bill To: Same
P.O. # / Billing Reference
Project Name / No. WPC Alameda

Pace Client No.
Pace Project Manager
Pace Project No.
*Requested Due Date: 72 hr hol

Sampled By (PRINT):
Brian West
Sampler Signature Brian West Date Sampled 10-23-95

NO. OF CONTAINERS	PRESERVATIVES				ANALYSES REQUEST
	UNPRESERVED	H ₂ SO ₄	HNO ₃	VOA	
				<u>Cold</u>	<u>FF IN AIR</u>

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PACE NO.	NO. OF CONTAINERS	UNPRESERVED	H ₂ SO ₄	HNO ₃	VOA	ANALYSES REQUEST	REMARKS
1	SP-1	PM	SL		1				✓		CLASSIFIED
2	SP-2	PM	SL		1				✓		
3	Sidewall E-SE	PM	SL		1				✓		
4	Sidewall E-SW	PM	SL		1				✓	REC'D Broken & UN-RECOVERABLE	
5											
6											
7											
8											

COOLER NOS.	BAILERS	SHIPMENT METHOD	RELINQUISHED BY / AFFILIATION	ACCEPTED BY / AFFILIATION	DATE	TIME
			<u>Brian West</u> UPS #07186954124	<u>UPS</u> <u>Alphill</u>	<u>10-23</u>	<u>PM</u>
Additional Comments		<u>15A°C</u>			<u>10-24-95</u>	<u>1000</u>

* Fuel Fingerprint - TPH gas, BTXE in headspace

SEE REVERSE SIDE FOR INSTRUCTIONS



REPORT OF LABORATORY ANALYSIS

Southern California Laboratory
4765 Calle Quetzal, Camarillo, California 93012

(805) 389-1353
FAX (805) 389-1438

CLIENT: Brian W. West
West & Associates Env. Engineers
490 Merchant Street, Suite 104
Vacaville, CA 95688

Lab Number : CL-4855-1
Project : WPC Alameda
Analyzed : 10/24/95
Analyzed by: EJ
Method : EPA TO-14

REPORT OF ANALYTICAL RESULTS

Page 1 of 1

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	RECEIVED	
SP - 1 Headspace	Air	Brian West	10/23/95	10/24/95	
CONSTITUENT		*PQL ppmv	RESULT ppmv	RESULT mg/cu M	NOTE
FUEL FINGERPRINT in AIR					1
Benzene		0.2	0.9	2.9	
Toluene		0.2	ND	ND	
Ethylbenzene		0.2	ND	ND	
Xylenes		0.2	0.8	3.6	
Ethylene Dichloride		0.2	ND	ND	
Ethylene Dibromide		0.1	ND	ND	
Total Fuel (non-methane hydrocarbons)		50.	1200.	4200.	

Lab Certifications: CAELAP #1598; UTELAP #E-142; AZELAP #AZ0162; A2LA #0136-01; L.A.Co.CSD #10187
*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)
(1) Headspace analysis at 90 C; 10 g sample.

11/01/95

GD/lrhgccc(dw)



REPORT OF LABORATORY ANALYSIS

Southern California Laboratory
4765 Calle Quetzal, Camarillo, California 93012

(805) 389-1353
FAX (805) 389-1438

CLIENT: Brian W. West
West & Associates Env. Engineers
490 Merchant Street, Suite 104
Vacaville, CA 95688

Lab Number : CL-4855-2
Project : WPC Alameda
Analyzed : 10/24/95
Analyzed by: EJ
Method : EPA TO-14

REPORT OF ANALYTICAL RESULTS

Page 1 of 1

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	RECEIVED	
SP - 2 Headspace	Air	Brian West	10/23/95	10/24/95	
CONSTITUENT		*PQL ppmv	RESULT ppmv	RESULT mg/cu M	NOTE
FUEL FINGERPRINT in AIR					1
Benzene		0.2	1.	3.3	
Toluene		0.2	ND	ND	
Ethylbenzene		0.2	ND	ND	
Xylenes		0.2	1.9	8.1	
Ethylene Dichloride		0.2	ND	ND	
Ethylene Dibromide		0.1	ND	ND	
Total Fuel (non-methane hydrocarbons)		50.	2800.	10000.	

Lab Certifications: CAELAP #1598; UTELAP #E-142; AZELAP #AZ0162; A2LA #0136-01; L.A.Co.CSD #10187
*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)

(1) Headspace analysis at 90 C; 10 g sample.

11/01/95

GD/lrhgcc(dw)



REPORT OF LABORATORY ANALYSIS

Southern California Laboratory
4765 Calle Quetzal, Camarillo, California 93012

(805) 389-1353
FAX (805) 389-1438

CLIENT: Brian W. West
West & Associates Env. Engineers
490 Merchant Street, Suite 104
Vacaville, CA 95688

Lab Number : CL-4855-3
Project : WPC Alameda
Analyzed : 10/24/95
Analyzed by: EJ
Method : EPA TO-14

REPORT OF ANALYTICAL RESULTS

Page 1 of 1

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY		SAMPLED	RECEIVED
Sidewall E-SE Headspace	Air	Brian West		10/23/95	10/24/95
CONSTITUENT		*PQL ppmv	RESULT ppmv	RESULT mg/cu M	NOTE
FUEL FINGERPRINT in AIR					1
Benzene		0.2	ND	ND	
Toluene		0.2	ND	ND	
Ethylbenzene		0.2	ND	ND	
Xylenes		0.2	ND	ND	
Ethylene Dichloride		0.2	ND	ND	
Ethylene Dibromide		0.1	ND	ND	
Total Fuel (non-methane hydrocarbons)		50.	160.	570.	

Lab Certifications: CAELAP #1598; UTELAP #E-142; AZELAP #AZ0162; A2IA #0136-01; L.A.Co.CSD #10187
*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)
(1) Headspace analysis at 90 C; 10 g sample.

11/01/95
fi
GD/lrhgcc(dw)



REPORT OF LABORATORY ANALYSIS

Southern California Laboratory
4765 Calle Quetzal, Camarillo, California 93012

(805) 389-1353
FAX (805) 389-1438

CLIENT: PACE, Incorporated

Analyzed : 10/24/95
Analyzed by: PS
Method : EPA TO-14

METHOD BLANK
REPORT OF ANALYTICAL RESULTS

Page 1 of 1

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE RECEIVED		
METHOD BLANK	Air				
CONSTITUENT	(CAS RN)	*PQL µg/cu M	RESULT µg/cu M	NOTE	
FUEL FINGERPRINT in AIR					
Benzene	(71432)	0.5	ND		
Toluene	(108883)	1.	ND		
Ethylbenzene	(100411)	1.	ND		
Xylenes		1.	ND		
Ethylene Dichloride	(107062)	1.	ND		
Ethylene Dibromide	(106934)	1.	ND		
Total Fuel (non-methane hydrocarbons)		200.	ND		

Lab Certifications: CAELAP #1598; UTELAP #E-142; AZELAP #AZ0162; A2LA #0136-01; L.A.Co.CSD #10187
*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)

11/01/95

GD/lrhgcc (dw)



ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Southern California Laboratory
4765 Calle Quetzal, Camarillo, California 93012

(805) 389-1353
FAX (805) 389-1438

CLIENT: PACE, Incorporated

Analyzed : 10/24/95
Analyzed by: PS
Method : EPA TO-14

QC MATRIX SPIKE
REPORT OF ANALYTICAL RESULTS

Page 1 of 1

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE RECEIVED		
MATRIX SPIKE	Air				
CONSTITUENT	ORIGINAL RESULT	SPIKE AMOUNT	RESULT mg/cu M	%REC	NOTE
FUEL FINGERPRINT in AIR					
Benzene	ND	7.3	7.6	104.	
Toluene	ND	29.	30.	103.	
Ethylbenzene	ND	3.3	3.3	100.	
Xylenes	ND	20.	20.	100.	
Ethylene Dichloride	ND	5.6	5.9	105.	
Ethylene Dibromide	ND	4.3	4.4	102.	
Total Fuel (non-methane hydrocarbons)	ND	230.	230.	100.	

Lab Certifications: CAELAP #1598; UTELAP #E-142; AZELAP #AZ0162; A2LA #0136-01; L.A.Co.CSD #10187
*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)

11/01/95

GD/lrhgccc (dw)



ENVIRONMENTAL LABORATORIES

10-30-95

301802

CHAIN-OF-CUSTODY RECORD Analytical Request

Client WEST & ASSOCIATES
Address P.O. BOX 5891
VACAVILLE CA 95696
Phone (707) 451-1360

Report To: WEST & ASSOC
Bill To: SAME
P.O. # / Billing Reference: WPC
Project Name / No.: WPC - ALAMEDA

Pace Client No.
Pace Project Manager
Pace Project No. 703995
Requested Due Date:

Sampled By (PRINT): BRENNAN MAHONEY
Sampler Signature: [Signature]
Date Sampled: 10-30-95

NO. OF CONTAINERS	PRESERVATIVES					ANALYSES REQUEST
	UNPRESERVED	H ₂ SO ₄	HNO ₃	VOA	TEMP	
						IPH-GAS BTEX

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PACE NO.	NO. OF CONTAINERS	PRESERVATIVES	ANALYSES REQUEST	REMARKS
1	SPOILS	11:00	S	38754	1		IPH-GAS BTEX	
2								
3								
4								
5								
6								
7								
8								

COOLER NOS.	BAILERS	SHIPMENT OUT/DATE	METHOD RETURNED/DATE	ITEM NUMBER	RELINQUISHED BY / AFFILIATION	ACCEPTED BY / AFFILIATION	DATE	TIME
					[Signature]	Joe Mathews	10/30/95	11:10
					Joe Mathews	Same N. K. [Signature]	10-31-95	1320

Additional Comments
Picked up warm DFR
10-31-95

SEE REVERSE SIDE FOR INSTRUCTIONS



REPORT OF LABORATORY ANALYSIS

DATE: 11/03/95
PAGE: 1

West & Associates
112 Pepperell Court
Vacaville, CA 95688

PACE Project Number: 703995
Client Project ID: WPC-ALAMEDA

Attn: Mr. Brennan Mahoney
Phone: (707)451-1360

Solid results are reported on a dry weight basis

Parameters	Results	Units	PRL	Analyzed	Method	Analyst	CAS#	Footnotes
GC -- Volatiles								
GAS/BTEX by CA LUFT, Soil								
Gasoline	8800	ug/kg	200	11/01/95	CA LUFT	ADS		
Benzene	3.2	ug/kg	1	11/01/95	CA LUFT	ADS	71-43-2	
Toluene	11	ug/kg	1	11/01/95	CA LUFT	ADS	108-88-3	
Ethyl Benzene	58	ug/kg	1	11/01/95	CA LUFT	ADS	100-41-4	
Xylene (Total)	300	ug/kg	2	11/01/95	CA LUFT	ADS	1330-20-7	
a,a,a-Trifluorotoluene (S)	89	%		11/01/95	CA LUFT	ADS	2164-17-2	
4-Bromofluorobenzene (S)	111	%		11/01/95	CA LUFT	ADS	460-00-4	



REPORT OF LABORATORY ANALYSIS

DATE: 11/03/95
PAGE: 2

PACE Project Number: 703995
Client Project ID: WPC-ALAMEDA

PARAMETER FOOTNOTES

ND	Not Detected
NC	Not Calculable
PRL	PACE Reporting Limit
(S)	Surrogate



REPORT OF LABORATORY ANALYSIS

QUALITY CONTROL DATA

DATE: 11/03/95
PAGE: 3

West & Associates
112 Pepperell Court
Vacaville, CA 95688

PACE Project Number: 703995
Client Project ID: WPC-ALAMEDA

Attn: Mr. Brennan Mahoney
Phone: (707)451-1360

QC Batch ID: 9269
Associated PACE Samples: 70387519

QC Batch Method: CA LUFT

Date of Batch: 11/01/95

METHOD BLANK: 70389242
Associated PACE Samples:

70387519

Parameter	Units	Method Blank Result	PRL	Footnotes
Gasoline	ug/kg	ND	200	
Benzene	ug/kg	ND	1	
Toluene	ug/kg	ND	1	
Ethyl Benzene	ug/kg	ND	1	
Xylene (Total)	ug/kg	ND	2	
1,1,1-Trifluorotoluene (S)	%	102		
1,2,4-Trifluorobenzene (S)	%	103		

LABORATORY CONTROL SAMPLE & LCSD: 70389259

70389267

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	LCSD Result	Spike Dup % Rec	RPD	Footnotes
Benzene	ug/kg	100	93	93	98	98	5	
Toluene	ug/kg	100	93	93	96	96	3	
Ethyl Benzene	ug/kg	100	93	93	97	97	4	
Xylene (Total)	ug/kg	300	290	96	300	99	3	
1,1,1-Trifluorotoluene (S)				105		107		
1,2,4-Trifluorobenzene (S)				99		102		



REPORT OF LABORATORY ANALYSIS

DATE: 11/03/95
PAGE: 4

PACE Project Number: 703995
Client Project ID: WPC-ALAMEDA

QUALITY CONTROL DATA PARAMETER FOOTNOTES

The Quality Control Sample Final Results listed above have been rounded to reflect an appropriate number of significant figures. Consistent with EPA guidelines unrounded concentrations have been used to calculate % Rec and RPD values.

ND Not Detected
NC Not Calculable
PRL PACE Reporting Limit
RPD Relative Percent Difference
(S) Surrogate



704203

304923

CHAIN-OF-CUSTODY RECORD
Analytical Request

Client WEST & ASSOCIATES
Address P.O. BOX 5891
VACAVILLE CA 95696
Phone (707) 451-1360

Report To: R WEST & ASSOC.
Bill To: SAME
P.O. # / Billing Reference WPC
Project Name / No. WPC-ALAMEDA

Pace Client No. _____
Pace Project Manager _____
Pace Project No. 704203
*Requested Due Date: _____

Sampled By (PRINT): BRIAN WEST

Sampler Signature _____ Date Sampled _____

NO. OF CONTAINERS	PRESERVATIVES					ANALYSES REQUEST
	UNPRESERVED	H ₂ SO ₄	HNO ₃	VOA	HCL	
						<div style="border: 1px solid black; padding: 5px; transform: rotate(-45deg); display: inline-block;"> TPH-GAS BTEX </div>

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PACE NO.	NO. OF CONTAINERS	PRESERVATIVES	ANALYSES REQUEST	REMARKS
1	WPC DISCHARGE		W	408760	2	✓✓	✓✓	
2								
3								
4								
5								
6								
7								
8								

COOLER NOS.	BAILERS	SHIPMENT METHOD	ITEM NUMBER	RELINQUISHED BY / AFFILIATION	ACCEPTED BY / AFFILIATION	DATE	TIME
		OUT/DATE RETURNED/DATE		<u>Joe J/W & A</u>	<u>Damian Ribbas</u>	<u>11/14/95</u>	<u>1300</u>

Additional Comments
Received Cold

SEE REVERSE SIDE FOR INSTRUCTIONS





REPORT OF LABORATORY ANALYSIS

December 01, 1995

Mr. Brian West
West & Associates
490 Merchant St. Ste.104
Vacaville, CA 95688

RE: PACE Project Number: 704203
Client Project ID: WPC-ALAMEDA

Dear Mr. West:

Enclosed are the results of analyses for sample(s) received on November 14, 1995. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in cursive script that reads "Ronald M. Chew".

Ron Chew
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

DATE: 12/01/95
PAGE: 1

est & Associates
490 Merchant St. Ste.104
Vacaville, CA 95688

PACE Project Number: 704203
Client Project ID: WPC-ALAMEDA

Attn: Mr. Brian West
Phone: (707)451-1360

PACE Sample No: 70408760 Date Collected: 11/14/95
Client Sample ID: WPC DISCHARGE Date Received: 11/14/95

Parameters	Results	Units	PRL	Analyzed	Method	Analyst	CAS#	Footnotes
GC -- Volatiles								
GAS/BTEX by CA LUFT, Water								
Gasoline	ND	ug/L	50	11/27/95	CA LUFT	ADS		
Benzene	ND	ug/L	0.5	11/27/95	CA LUFT	ADS	71-43-2	
Toluene	ND	ug/L	0.5	11/27/95	CA LUFT	ADS	108-88-3	
Ethyl Benzene	ND	ug/L	0.5	11/27/95	CA LUFT	ADS	100-41-4	
Xylene (Total)	ND	ug/L	1	11/27/95	CA LUFT	ADS	1330-20-7	
a,a,a-Trifluorotoluene (S)	105	%		11/27/95	CA LUFT	ADS	2164-17-2	
4-Bromofluorobenzene (S)	80	%		11/27/95	CA LUFT	ADS	460-00-4	



REPORT OF LABORATORY ANALYSIS

DATE: 12/01/95
PAGE: 2

PACE Project Number: 704203
Client Project ID: WPC-ALAMEDA

PARAMETER FOOTNOTES

D Not Detected
C Not Calculable
PRL PACE Reporting Limit
(S) Surrogate



REPORT OF LABORATORY ANALYSIS

QUALITY CONTROL DATA

DATE: 12/01/95
PAGE: 3

West & Associates
490 Merchant St. Ste.104
Vacaville, CA 95688

PACE Project Number: 704203
Client Project ID: WPC-ALAMEDA

Attn: Mr. Brian West
Phone: (707)451-1360

QC Batch ID: 10070
Associated PACE Samples: 70408760

QC Batch Method: CA LUFT

Date of Batch: 11/27/95

METHOD BLANK: 70423926
Associated PACE Samples: 70408760

Parameter	Units	Method Blank Result	PRL	Footnotes
Gasoline	ug/L	ND	50	
Benzene	ug/L	ND	0.5	
Toluene	ug/L	ND	0.5	
Ethyl Benzene	ug/L	ND	0.5	
Xylene (Total)	ug/L	ND	1	
Methyl-tert-butyl Ether	ug/L	ND	5	
1,2,4-Trifluorotoluene (S)	%	102		
1,4-Dibromofluorobenzene (S)	%	81		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 70424643 70424650

Parameter	Units	70408760	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
Benzene	ug/L	ND	100	99	99	98	98	1	
Toluene	ug/L	ND	100	96	96	95	95	1	
Ethyl Benzene	ug/L	ND	100	92	92	91	91	1	
Xylene (Total)	ug/L	ND	300	270	91	270	90	1	
1,2,4-Trifluorotoluene (S)					109		115		
1,4-Dibromofluorobenzene (S)					87		87		



REPORT OF LABORATORY ANALYSIS

QUALITY CONTROL DATA

DATE: 12/01/95

PAGE: 4

PACE Project Number: 704203

Client Project ID: WPC-ALAMEDA

LABORATORY CONTROL SAMPLE & LCSD: 70423934 70423942

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	LCSD Result	Spike Dup % Rec	RPD	Footnotes
Benzene	ug/L	100	98	99	97	97	2	
Toluene	ug/L	100	96	96	95	95	1	
Ethyl Benzene	ug/L	100	92	92	90	90	2	
Xylene (Total)	ug/L	300	280	92	270	90	2	
1,2,4-Trifluorobenzene (S)				114		115		
4-Bromofluorobenzene (S)				89		87		



REPORT OF LABORATORY ANALYSIS

DATE: 12/01/95
PAGE: 5

PACE Project Number: 704203
Client Project ID: WPC-ALAMEDA

QUALITY CONTROL DATA PARAMETER FOOTNOTES

The Quality Control Sample Final Results listed above have been rounded to reflect an appropriate number of significant figures. Consistent with EPA guidelines unrounded concentrations have been used to calculate % Rec and RPD values.

ND Not Detected
NC Not Calculable
PRL PACE Reporting Limit
RPD Relative Percent Difference
(S) Surrogate

**EXCELCHEM
ENVIRONMENTAL LABS**



500 Giuseppe Court, Suite 9
Roseville, CA 95678
Phone#: (916) 773-3664 Fax#: (916) 773-4784

ANALYSIS REPORT

Attention: Mr. Brian West
WEST & ASSOCIATES
P.O. Box 5891
Vacaville, CA 95696

Date Sampled : 11-20-95
Date Received: 11-22-95
BTEX Analyzed: 11-30-95
TPHi Analyzed: 12-01-95
Matrix: Soil

Project: WPC Alameda

	Benzene <u>ppm(v/v)</u>	Toluene <u>ppm(v/v)</u>	Ethyl- benzene <u>ppm(v/v)</u>	Total Xylenes <u>ppm(v/v)</u>	TPH isooctane <u>ppm(v/v)</u>
Reporting Limit:	0.3	0.3	0.3	0.6	3.0

SAMPLE

Laboratory Identification:

SP1 S1195359	ND	ND	ND	ND	ND
SP2 S1195360	ND	ND	ND	ND	ND
SP4 S1195362	ND	ND	ND	ND	ND

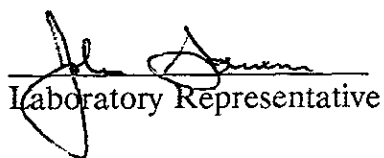
ppm = part per million = volume/volume.

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

ANALYTICAL PROCEDURES

BTEX— Benzene, toluene, ethylbenzene, and total xylene isomers (BTEX) are analyzed by using EPA Method 3810 which utilizes a gas chromatograph (GC) equipped with a photoionization detector (PID).

TPHi—Total petroleum hydrocarbons as isooctane are analyzed by using EPA Method 3810, which utilizes a GC equipped with an FID.


Laboratory Representative

12-05-95
Date Reported

**EXCELICHEM
ENVIRONMENTAL LABS**

500 Giuseppe Court, Suite 9
Roseville, CA 95678
Phone#: (916) 773-3664 Fax#: (916) 773-4784



QA/QC REPORT

Attention: Mr. Brian West
WEST & ASSOCIATES
P.O. Box 5891
Vacaville, CA 95696

Date Analyzed: 11-30-95
Matrix: Soil

Project: WPC Alameda

	Benzene <u>ppm(v/v)</u>	Toluene <u>ppm(v/v)</u>	Ethyl- benzene <u>ppm(v/v)</u>	Total Xylenes <u>ppm(v/v)</u>
Reporting Limit:	0.3	0.3	0.3	0.6

QA/QC PARAMETER

Matrix Blank	ND	ND	ND	ND
--------------	----	----	----	----

PERCENT RECOVERIES

Matrix Spike	104%	104%	98%	NA
Matrix Spike Duplicate	100%	95%	90%	NA

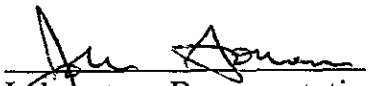
ppm(v/v) = parts per million = volume/volume.

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


NA = Not analyzed.

ANALYTICAL PROCEDURES

BTEX-- Benzene, toluene, ethylbenzene, and total xylene isomers (BTEX) are analyzed using EPA Method 3810 which utilizes a gas chromatograph (GC) equipped with a photoionization detector (PID).


Laboratory Representative

12-05-95
Date Reported



Anlab
ANALYTICAL LABORATORY

1910 "S" STREET • SACRAMENTO, CA 95814
(916) 447-2946 • FAX (916) 447-8321

CLIENT INFORMATION

Company: West & Assoc. Contact Name: B WEST

Address: PO Box 5891

City: Vacaville State: CA Zip: 95696

Billing Address: Same

Telephone: 707 451 1360 FAX: 707 447 0631

Project Name: WPC-Alameda P.O. Number: ---

Sampler's Co.: W & A Sampler's Name: BWW

Anlab Use Only:

Hours: _____

Miles: _____

Equip.: _____

ANALYSIS >	SAMPLE IDENTIFICATION	Date	Time	Sample Type				Number of Containers				Preservation		
				W	W	S	S	P	G	V	S	T	A	B
						SOIL	SLUDGE	PLASTIC	GLASS	VOA	STERILE	TEMP	ACID	BASE
	WPC	12-15	PM	✓	✓		✓							

COMMENTS/SPECIAL INSTRUCTIONS: _____

TURNAROUND TIME:
 24 HOUR 48 HOUR 72 HOUR
 5 DAY STANDARD
 QC LEVEL 1 2 3

SAMPLE DISPOSAL: _____ HOLD
 RETURN DISPOSE
 SHIPPED VIA: Hand
 UPS FED-EX BUS

SAMPLE RELINQUISHED BY	PRINT NAME/COMPANY	DATE/TIME	RECEIVED BY	PRINT NAME/COMPANY
<u>Brian West</u>	<u>BWW - W & A</u>	<u>12-19-95 1:30</u>	<u>Neil D. ...</u>	<u>Neil D. ... / Anlab</u>

ANLAB WILL PERFORM THE SERVICES IN ACCORDANCE WITH THE NORMAL STANDARD OF WORKMANSHIP IN THE PROFESSION. THE TOTAL LIABILITY OF ANLAB, ITS OFFICERS, AGENTS, EMPLOYEES OR SUCCESSORS, TO THE CLIENT, SHALL NOT EXCEED THE INVOICED AMOUNT FOR SAID SERVICES. CLIENTS' ACCEPTANCE OF A WORK ORDER AND/OR PROPOSAL RELEASES ANLAB FROM ANY LIABILITY IN EXCESS OF THE INVOICED AMOUNT FOR THE SERVICES, NOTWITHSTANDING ANY PROVISION TO THE CONTRARY IN ANY CLIENT PURCHASE ORDER OR CONTRACT.



ANALYTICAL LABORATORY

1910 S STREET SACRAMENTO, CALIFORNIA 95814 • 916-447-2946 • FAX 916-447-8321

January 8, 1996

West & Associates Environmental Engineers
P.O. Box 5891
Vacaville, CA 95696
Attn: Brian West

Project: WPC-Alameda

Anlab I.D. AE26477
SAMPLE DESCRIPTION: WPC
Sample collection date: 12/15/95
Lab submittal date: 12/19/95
Turn-Around-Time: REG

Client Code: 891
Matrix: S
Time:
Time: 13:30
Sample Disposal: LAB

TEST PARAMETER	UNITS	TEST RESULT	DETECTION LIMIT
Multicomponent analysis: Gas(8015)/BTX&E(8020) EPA 5030			
Gasoline	mg/kg	ND	0.040
Benzene	mg/kg	ND	0.0010
Toluene	mg/kg	ND	0.0010
Xylene	mg/kg	ND	0.0010
Ethylbenzene	mg/kg	ND	0.0010

ND = Not Detected

Date Analyzed: 12/27/95

Report Approved By: Patty Duckball
ELAP ID #: 1468

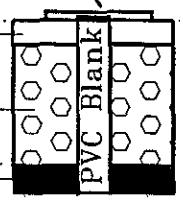
:rdm

WEST & ASSOCIATES ENVIRONMENTAL ENGINEERS, INC.

PO Box 5891, Vacaville CA 95696

Project: Weyerhaeuser Paper Company, Alameda	Job No.: 70632.20
Location: 1801 Hibbard Str., Alameda 94501	Date: Jan. 1996
Boring Designation: MW-3B	Driller: Exploration Geoservices
Logged by: BWW	Base: San Jose
Boring Location: Inside machine shop	Drill Equipment: Mobile B-51
Soils Classification System: USCS	Diameter & Type Well Casing: 10" HSA; 2" dia. Schedule 40 PVC
Sample type: BRASS TUBE - SPLIT SPOON	
Soil Matrix: YES	Elevation & Datum: NYS
Date Started: 12-15-95 Finished: 12-15-95	Completion Depth: 16 feet BGS
Number of Samples: None	Depth to Groundwater: 11-12 feet BGS

Depth (feet)	Date Time	Sample Number	Lithology	Observations	Well Construction
0	12/15 7:00A	MW3B		New Concrete Basecourse	Traffic cover & locking cap Concrete
5				SP Poorly graded sand medium grained dry clay stringers	Bentonite grout Bentonite Seal
10				SP Gasoline odor stained	2" dia PVC
15	8:30A	EOB	SP water dripping from sampler	0.020" slot well screen	Monterey No. 3 sand
20					Bottom plug
25					
30					
35					
40					

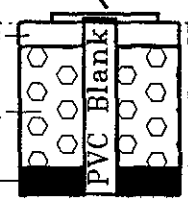


WEST & ASSOCIATES ENVIRONMENTAL ENGINEERS, INC.

PO Box 5891, Vacaville CA 95696

Project: Weyerhaeuser Paper Company, Alameda	Job No.: 70632.20
Location: 1801 Hibbard Str., Alameda 94501	Date: Jan. 1996
Boring Designation: MW-4B	Driller: Exploration Geoservices
Logged by: BWW	Base: San Jose
Boring Location: Inside machine shop	Drill Equipment: Mobile B-51
Soils Classification System: USCS	Diameter & Type Well Casing: 10" HSA; 2" dia. Schedule 40 PVC
Sample type: BRASS TUBE - SPLIT SPOON	
Soil Matrix: YES	Elevation & Datum: NYS
Date Started: 12-15-95 Finished: 12-15-95	Completion Depth: 16 feet BGS
Number of Samples: One	Depth to Groundwater: 11-12 feet BGS

Depth (feet)	Date Time	Sample Number	Lithology	Observations	Well Construction
0	12/15 9:15A	MW4B		New Concrete Basecourse	Traffic cover & locking cap Concrete
5				SP	Poorly graded sand medium grained dry clay stringers
10	10:30A		WPC		Bentonite Seal
15			SP	clean - no odor or stain	2" dia PVC
20			SP	water dripping from sampler	0.020" slot well screen
25		EOB		Monterey No. 3 sand	Bottom plug
30					
35					
40					





NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV.
If waste is NOT asbestos waste, complete only Sections I, II and III.

No. 004806

Section I. GENERATOR (Generator completes all of Section I)

a. Generator Name: Weyerhaeuser b. Generating Location: Site
 c. Address: 1801 Hibbard STR d. Address: Same
Alameda CA
 e. Phone No.: 510-814-1167 f. Phone No.: Same

If owner of the generating facility differs from the generator, provide:
 g. Owner's Name: _____ h. Owner's Phone No.: _____

i. BFI WASTE CODE:

CA	4	0	5	1	1	0	7	5
----	---	---	---	---	---	---	---	---

0	1	0	9	0
---	---	---	---	---

 Containers
 j. Description of Waste: Soil k. Quantity:

7	0	0	2	0
---	---	---	---	---

 Units:

Y

 No.:

0	1
---	---

 TYPE:

-	T
---	---

TYPE	
DM	- METAL DRUM
DP	- PLASTIC DRUM
B	- BAG
BA	- 6 MIL. PLASTIC BAG or WRAP
T	- TRUCK
O	- OTHER
UNITS	
P	- POUNDS
Y	- YARDS
M ³	- CUBIC METERS
Y ³	- CUBIC YARDS
O	- OTHER

GENERATOR'S CERTIFICATION: I hereby certify that the above named material 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; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Brian West Brian West

1	1	0	6	7	5
---	---	---	---	---	---

 Generator Authorized Agent Name Signature Shipment Date

Section II. TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n)

TRANSPORTER I
 a. Name: All C. and disposal
 b. Address: 941-D Berryessa
San Jose CA
 c. Driver Name/Title: Michael Conis
 Phone No.: 408-453-1660 e. Truck No.: 7-T4
 Vehicle License No./State: SP20568 CA
 Acknowledgement of Receipt of Materials.
[Signature]

1	1	0	6	7	5
---	---	---	---	---	---

 Driver Signature Shipment Date

TRANSPORTER II
 h. Name: _____
 i. Address: _____
 j. Driver Name/Title: _____
 k. Phone No.: _____ l. Truck No.: _____
 m. Vehicle License No./State: _____
 Acknowledgement of Receipt of Materials.
 n. _____

--	--	--	--	--	--

 Driver Signature Shipment Date

Section III. DESTINATION (Generator completes a-d, destination site completes e-f)

a. Site Name: RFI - VACCC ROAD c. Phone No.: 510-447-0491
 b. Physical Address: _____ d. Mailing Address: _____
Livermore CA
 e. Discrepancy Indication Space: _____
 I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.
 f. _____

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 Name of Authorized Agent Signature Receipt Date

Section IV. ASBESTOS (Generator complete a-d, f, g, Operator* completes e.)

a. Operator's* Name: _____ b. Operator's* Phone No.: _____
 Operator's* Address: _____
 d. Special Handling Instructions and additional information: _____

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

Operator's* Name & Title: _____

--	--	--	--	--	--



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV.
If waste is NOT asbestos waste, complete only Sections I, II and III.

No. 604637

Section I. GENERATOR (Generator completes all of Section I)

a. Generator Name: Weyerhaeuser b. Generating Location: Same
 c. Address: 1801 Hibbard d. Address: Same
Alameda, CA
 e. Phone No.: 510-814-1167 f. Phone No.: Same

If owner of the generating facility differs from the generator, provide:

g. Owner's Name: _____ h. Owner's Phone No.: _____

i. BFI WASTE CODE

CA	4	0	5	1	1	0	3	9	5
----	---	---	---	---	---	---	---	---	---

0	4	0	9	0
---	---	---	---	---

 Containers
 j. Description of Waste: Soil k. Quantity

0	0	0	2	0
---	---	---	---	---

 Units

Y

 No.

0	1
---	---

 TYPE

-	T
---	---

TYPE	
DM	- METAL DRUM
DP	- PLASTIC DRUM
B	- BAG
BA	- 6 MIL. PLASTIC BAG or WRAP
T	- TRUCK
O	- OTHER

UNITS	
P	- POUNDS
Y	- YARDS
M ³	- CUBIC METERS
Y ³	- CUBIC YARDS
O	- OTHER

GENERATOR'S CERTIFICATION: I hereby certify that the above named material 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; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Brian West Brian West

1	1	0	6	9	5
---	---	---	---	---	---

 Generator Authorized Agent Name Signature Shipment Date

Section II. TRANSPORTER (Generator complete a-d, Transporter I complete e-g, Transporter II complete h-n)

TRANSPORTER I
 a. Name: All-Chemical Disposal
 b. Address: 941 Berryessa 'D'
San Jose CA
 c. Driver Name/Title: Michael Comis
 d. Phone No.: 408-453-1660 e. Truck No.: 7-T4
 f. Vehicle License No./State: SP20568 CA
 Acknowledgement of Receipt of Materials.
[Signature]

1	1	0	6	9	5
---	---	---	---	---	---

 Driver Signature Shipment Date

TRANSPORTER II
 h. Name: _____
 i. Address: _____
 j. Driver Name/Title: _____
 k. Phone No.: _____ l. Truck No.: _____
 m. Vehicle License No./State: _____
 Acknowledgement of Receipt of Materials.
 n. _____

--	--	--	--	--	--

 Driver Signature Shipment Date

Section III. DESTINATION (Generator completes a-d, destination site completes e-f)

a. Site Name: BFI ALCO ROAD c. Phone No.: 510-447-0491
 b. Physical Address: _____ d. Mailing Address: _____
LIVERMORE CA
 e. Discrepancy Indication Space: _____

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

f. _____

--	--	--	--	--	--

 Name of Authorized Agent Signature Receipt Date

Section IV. ASBESTOS (Generator complete a-d, f, g, Operator* completes e)

a. Operator's* Name: _____ b. Operator's* Phone No.: _____
 c. Operator's* Address: _____
 d. Special Handling Instructions and additional information: _____

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

e. Operator's* Name & Title: _____

--	--	--	--	--	--



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV.
If waste is NOT asbestos waste, complete only Sections I, II and III.

No. 804642

Section I. GENERATOR (Generator completes all of Section I)

a. Generator Name: Weyerhaeuser b. Generating Location: Same
 c. Address: 1801 Hibbard St d. Address: Same
Alameda CA
 e. Phone No.: 510-814-1167 f. Phone No.: Same

If owner of the generating facility differs from the generator, provide:

g. Owner's Name: _____ h. Owner's Phone No.: _____

i. BFI WASTE CODE:

CA	405	110395
----	-----	--------

04090

 Containers: _____
 j. Description of Waste: Soil k. Quantity:

00020

 Units:

Y

 No.:

01

 TYPE:

T

TYPE	
DM	- METAL DRUM
DP	- PLASTIC DRUM
B	- BAG
BA	- 6 MIL. PLASTIC BAG or WRAP
T	- TRUCK
O	- OTHER
UNITS	
P	- POUNDS
Y	- YARDS
M ³	- CUBIC METERS
Y ³	- CUBIC YARDS
O	- OTHER

GENERATOR'S CERTIFICATION: I hereby certify that the above named material 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; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Brian W. West Brian W. West

110695

 Generator Authorized Agent Name Signature Shipment Date

Section II. TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n)

TRANSPORTER I
 a. Name: All Chemical Disposal
 b. Address: 941-D Berghessa
San Jose CA
 c. Driver Name/Title: _____
 d. Phone No.: 408-453-1660 e. Truck No.: 7-T4
 f. Vehicle License No./State: SP20568 CA
 Acknowledgement of Receipt of Materials.
[Signature] M. G. [Signature]

110695

 Driver Signature Shipment Date

TRANSPORTER II
 h. Name: _____
 i. Address: _____
 j. Driver Name/Title: _____
 k. Phone No.: _____ l. Truck No.: _____
 m. Vehicle License No./State: _____
 Acknowledgement of Receipt of Materials.
 n. _____

--	--	--	--	--

 Driver Signature Shipment Date

Section III. DESTINATION (Generator completes a-d, destination site completes e-f)

a. Site Name: BFI-VASCO ROAD c. Phone No.: 510-447-0441
 b. Physical Address: _____ d. Mailing Address: _____
Livermore CA

e. Discrepancy Indication Space: _____
I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

f. _____

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 Name of Authorized Agent Signature Receipt Date

Section IV. ASBESTOS (Generator complete a-d, f, g, Operator* completes e)

a. Operator's* Name: _____ b. Operator's* Phone No.: _____
 Operator's* Address: _____

d. Special Handling Instructions and additional information: _____

GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

Generator's* Name & Title: _____

--	--	--	--	--



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV.
If waste is NOT asbestos waste, complete only Sections I, II and III.

No. 604640

Section I. GENERATOR (Generator completes all of Section I)

a. Generator Name: WEYERHAEUSER b. Generating Location: SAME
 c. Address: 1801 HILSON RD SI d. Address: SAME
ALAMEDA CA
 e. Phone No.: 510-84-1167 f. Phone No.: SAME

If owner of the generating facility differs from the generator, provide:

g. Owner's Name: _____ h. Owner's Phone No.: _____

i. BFI WASTE CODE:

CA	405	110395	04090
----	-----	--------	-------

 Containers: _____
 Description of Waste: SOIL k. Quantity:

00020	Y	01	-T
-------	---	----	----

 Units: _____ No.: _____ TYPE: _____

- TYPE**
- DM - METAL DRUM
 - DP - PLASTIC DRUM
 - B - BAG
 - BA - 6 MIL. PLASTIC BAG or WRAP
 - T - TRUCK
 - O - OTHER
- UNITS**
- P - POUNDS
 - Y - YARDS
 - M³ - CUBIC METERS
 - Y³ - CUBIC YARDS
 - O - OTHER

GENERATOR'S CERTIFICATION: I hereby certify that the above named material 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; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Generator Authorized Agent Name: _____ Signature: Brian West Shipment Date:

--	--	--	--	--	--

Section II. TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n)

TRANSPORTER I
 a. Name: ALL CHEMICAL DISPOSAL
 b. Address: 9411 - D ISBERGESSA RD
SAN JOSE CA 95133
 c. Driver Name/Title: MICHAEL COLLIS
 Phone No.: 415 452 1660 e. Truck No.: 7-74
 Vehicle License No./State: SP 20568 CA
 Acknowledgement of Receipt of Materials:
 Driver Signature: [Signature] Shipment Date:

1	1	0	7	9	5
---	---	---	---	---	---

TRANSPORTER II
 h. Name: _____
 i. Address: _____
 j. Driver Name/Title: _____
 k. Phone No.: _____ l. Truck No.: _____
 m. Vehicle License No./State: _____
 Acknowledgement of Receipt of Materials:
 Driver Signature: _____ Shipment Date:

--	--	--	--	--	--

Section III. DESTINATION (Generator completes a-d, destination site completes e-f)

a. Site Name: BFI VESCO RD c. Phone No.: 510-447-0491
 b. Physical Address: _____ d. Mailing Address: _____
LIVERMORE CA
 e. Discrepancy Indication Space: _____

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

f. Name of Authorized Agent: _____ Signature: _____ Receipt Date:

--	--	--	--	--	--

Section IV. ASBESTOS (Generator complete a-d, f, g, Operator* completes e.)

a. Operator's* Name: _____ b. Operator's* Phone No.: _____
 Operator's* Address: _____
 d. Special Handling Instructions and additional information: _____

GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

--	--	--	--	--	--



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV.
If waste is NOT asbestos waste, complete only Sections I, II and III

No. 604641

Section I. GENERATOR (Generator completes all of Section I)

Generator Name: WEYERHAEUSER b. Generating Location: SHE
 c. Address: 1801 HIGHLAND ST d. Address: SHE
ALAMOGA CA
 Phone No.: 510-811-1167 f. Phone No.: SHE

If owner of the generating facility differs from the generator, provide:

Owner's Name: _____ h. Owner's Phone No.: _____

i. BFI WASTE CODE

CA	405	110395	04090
----	-----	--------	-------

 Containers
 Description of Waste: SOIL k. Quantity

00020	Y	01	T
-------	---	----	---

 No. TYPE
 TYPE
 DM - METAL DRUM
 DP - PLASTIC DRUM
 B - BAG
 BA - 6 MIL. PLASTIC BAG or WRAP
 T - TRUCK
 O - OTHER

GENERATOR'S CERTIFICATION: I hereby certify that the above named material 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; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261

Generator Authorized Agent Name Brian Wood Signature

110795

 Shipment Date

Section II. TRANSPORTER (Generator complete a-d, Transporter I complete e-g, Transporter II complete h-n)

TRANSPORTER I
 Name: ALL CHEMICAL DISPOSAL
 b. Address: 9411 D WOODBERRY RD
SAN JOSE CA 95133
 c. Driver Name/Title: MICHAEL CHAS
 Phone No.: 408 453 1660 PRINT/TYPE e. Truck No.: 7-74
 Vehicle License No./State: SP 20568 CA
 Acknowledgement of Receipt of Materials.
 Driver Signature Shipment Date

110795

TRANSPORTER II
 h. Name: _____
 i. Address: _____
 j. Driver Name/Title: _____ PRINT/TYPE
 k. Phone No.: _____ l. Truck No.: _____
 m. Vehicle License No./State: _____
 Acknowledgement of Receipt of Materials.
 n. _____ Shipment Date

--	--	--	--	--

Section III. DESTINATION (Generator completes a-d, destination site completes e-f)

Site Name: BFI c. Phone No.: 510-447-0191
 b. Physical Address: VISCO RD d. Mailing Address: _____
LIVERMORE CA
 e. Discrepancy Indication Space: _____

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

f. Name of Authorized Agent _____ Signature _____ Receipt Date

--	--	--	--	--

Section IV. ASBESTOS (Generator complete a-d, f, g, Operator * completes e.)

a. Operator's* Name: _____ b. Operator's* Phone No.: _____
 Operator's* Address: _____
 d. Special Handling Instructions and additional information: _____

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, checked, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

e. Operator's* Name & Title: _____

--	--	--	--	--



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

711 0204

If waste is asbestos waste, complete Sections I, II, III and IV.
If waste is NOT asbestos waste, complete only Sections I, II and III

No. 604639

Section I. GENERATOR (Generator completes all of Section I)

a. Generator Name: WET-HANDLING b. Generating Location: SAFIE
 c. Address: 1801 HILSDALE ST d. Address: SAFIE
ALAMEDA CA
 e. Phone No.: 510-811-1167 f. Phone No.: SAFIE

If owner of the generating facility differs from the generator, provide:
g. Owner's Name: _____ h. Owner's Phone No.: _____

i. BFI WASTE CODE:

CA	405	110395	04090
----	-----	--------	-------

 Containers: _____
 Description of Waste: SOIL k. Quantity:

00020

 Units:

Y

 No.:

01

 TYPE:

-T

TYPE	
DM	- METAL DRUM
DP	- PLASTIC DRUM
B	- BAG
BA	- 6 MIL. PLASTIC BAG or WRAP
T	- TRUCK
O	- OTHER

UNITS	
P	- POUNDS
Y	- YARDS
M ³	- CUBIC METERS
Y ³	- CUBIC YARDS
O	- OTHER

GENERATOR'S CERTIFICATION: I hereby certify that the above named material 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; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Generator Authorized Agent Name: _____ Signature: [Signature] Shipment Date:

110795

Section II. TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n)

TRANSPORTER I
 a. Name: ALL CHEMICAL DISPOSAL
 b. Address: 9111 S. DIABLO AVENUE
SAN JOSE CA 95143
 c. Driver Name/Title: MICHAEL COMIS
 d. Phone No.: 408 4521666 e. Truck No.: 7-TH
 f. Vehicle License No./State: SP20568 CA
 Acknowledgement of Receipt of Materials:
[Signature]

110795

 Driver Signature: _____ Shipment Date: _____

TRANSPORTER II
 h. Name: _____
 i. Address: _____
 j. Driver Name/Title: _____
 k. Phone No.: _____ l. Truck No.: _____
 m. Vehicle License No./State: _____
 Acknowledgement of Receipt of Materials:
 n. _____

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 Driver Signature: _____ Shipment Date: _____

Section III. DESTINATION (Generator completes a-d, destination site completes e-f)

a. Site Name: GLI WASTE c. Phone No.: 510-417-0491
 b. Physical Address: LIVERMORE CA d. Mailing Address: _____
 e. Discrepancy Indication Space: _____
 I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.
 f. Name of Authorized Agent: _____ Signature: _____ Receipt Date:

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Section IV. ASBESTOS (Generator complete a-d, f, g, Operator completes e)

a. Operator's* Name: _____ b. Operator's* Phone No.: _____
 c. Operator's* Address: _____
 d. Special Handling Instructions and additional information: _____

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

Operator's* Name & Title: _____

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NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

81 7

If waste is asbestos waste, complete Sections I, II, III and IV.
If waste is NOT asbestos waste, complete only Sections I, II and III

No. 782401

Section I. GENERATOR (Generator completes all of Section I)

a. Generator Name: WESTERHADSSER b. Generating Location: SAME
 c. Address: 1801 HUNTER ST d. Address: SAME
ALAMEDA CA
 e. Phone No.: 510-844-1167 f. Phone No.: SAME

If owner of the generating facility differs from the generator, provide:

g. Owner's Name: _____ h. Owner's Phone No.: _____

i. BFI WASTE CODE:

CA	405	110395	04090
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 Containers: _____
 j. Description of Waste: SOL k. Quantity:

00020	4	01	T
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 Units: _____ No.: _____ TYPE: _____

TYPE	
DM	- METAL DRUM
DP	- PLASTIC DRUM
B	- BAG
BA	- 6 MIL. PLASTIC BAG or WRAP
T	- TRUCK
O	- OTHER

UNITS	
P	- POUNDS
Y	- YARDS
M ³	- CUBIC METERS
Y ³	- CUBIC YARDS
O	- OTHER

GENERATOR'S CERTIFICATION: I hereby certify that the above named material 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; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Brian West Generator Authorized Agent Name
Brian West Signature
Tideast Shipment Date

Section II. TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n)

TRANSPORTER I

a. Name: ALL CHEMICAL DISPOSAL INC
 b. Address: 9411 D BERRY AVE RD
STU BSC CA 95123
 c. Driver Name/Title: MICHAEL TOMAS
 PRINT/TITLE
 d. Phone No.: 408 450 1600 e. Truck No.: 7-74
 f. Vehicle License No./State: SP 20568 CA
 Acknowledgement of Receipt of Materials:
[Signature]
 Driver Signature
110895
 Shipment Date

TRANSPORTER II

h. Name: _____
 i. Address: _____
 j. Driver Name/Title: _____
 PRINT/TITLE
 k. Phone No.: _____ l. Truck No.: _____
 m. Vehicle License No./State: _____
 Acknowledgement of Receipt of Materials:

 Driver Signature

 Shipment Date

Section III. DESTINATION (Generator completes a-d; destination site completes e-f)

a. Site Name: BFI c. Phone No.: 510-447-0191
 b. Physical Address: VANCO RD d. Mailing Address: _____
LIVERMORE CA
 e. Discrepancy Indication Space: _____
 I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.
 f. Name of Authorized Agent: _____ Signature: _____ Receipt Date:

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Section IV. ASBESTOS (Generator complete a-d, f, g; Operator* completes e.)

a. Operator's* Name: _____ b. Operator's* Phone No.: _____
 c. Operator's* Address: _____
 d. Special Handling Instructions and additional information: _____

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

e. Operator's* Name & Title: _____ Signature: _____ Date:

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NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

48

If waste is asbestos waste, complete Sections I, II, III and IV.
If waste is NOT asbestos waste, complete only Sections I, II and III.

No. 782402

Section I. GENERATOR (Generator completes all of Section I)

a. Generator Name: WEXLER INDUSTRIES b. Generating Location: SAME
 c. Address: 1801 HUBBARD ST d. Address: SAME
ALAMEDA CA
 e. Phone No.: 510-814-1167 f. Phone No.: SAME

If owner of the generating facility differs from the generator, provide:

g. Owner's Name: _____ h. Owner's Phone No.: _____

i. BFI WASTE CODE:

CA	405	110395	04090
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 Containers: _____
 j. Description of Waste: SOIL k. Quantity:

00020	4	01	T
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 Units: _____ No.: _____ TYPE: _____

- TYPE**
- DM - METAL DRUM
 - DP - PLASTIC DRUM
 - B - BAG
 - BA - 6 MIL. PLASTIC BAG or WRAP
 - T - TRUCK
 - O - OTHER
- UNITS**
- P - POUNDS
 - Y - YARDS
 - M³ - CUBIC METERS
 - Y³ - CUBIC YARDS
 - O - OTHER

GENERATOR'S CERTIFICATION: I hereby certify that the above named material 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; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Generator Authorized Agent Name: Drewman Mahoney Signature: _____ Shipment Date:

11	08	95
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Section II. TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n)

TRANSPORTER I

a. Name: ALL CHEMICAL DISPOSAL
 b. Address: 9111 D IBEROLLES RD
SAN JOSE CA
 c. Driver Name/Title: MICHAEL COMIS PRINT/TITLE
 d. Phone No.: 408-452-1660 e. Truck No.: 7-74
 f. Vehicle License No./State: SP 20568 CA
 Acknowledgement of Receipt of Materials.
 Driver Signature: _____ Shipment Date:

11	09	95
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TRANSPORTER II

h. Name: _____
 i. Address: _____
 j. Driver Name/Title: _____ PRINT/TITLE
 k. Phone No.: _____ i. Truck No.: _____
 m. Vehicle License No./State: _____
 Acknowledgement of Receipt of Materials.
 Driver Signature: _____ Shipment Date: _____

Section III. DESTINATION (Generator completes a-d; destination site completes e-f)

a. Site Name: BFI c. Phone No.: 510-417-0191
 b. Physical Address: VASCO RD d. Mailing Address: _____
LIVERMORE CA
 e. Discrepancy Indication Space: _____

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

f. Name of Authorized Agent: _____ Signature: _____ Receipt Date:

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Section IV. ASBESTOS (Generator complete a-d, f, g; Operator* completes e.)

a. Operator's* Name: _____ b. Operator's* Phone No.: _____
 c. Operator's* Address: _____
 d. Special Handling Instructions and additional information: _____

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

e. Operator's* Name & Title: _____



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

#9

If waste is asbestos waste, complete Sections I, II, III and IV.
If waste is NOT asbestos waste, complete only Sections I, II and III.

No. 782427

Section I. GENERATOR (Generator completes all of Section I)

a. Generator Name: Meyerhaus Alameda b. Generating Location: Meyerhaus Alameda
 c. Address: 1801 Hibbard Street d. Address: 1801 Hibbard Street
Alameda, CA 94051 e. Address: Alameda, CA 94051
 f. Phone No.: (510)814-1167 g. Phone No.: (510)814-1167

If owner of the generating facility differs from the generator, provide:
 h. Owner's Name: _____ i. Owner's Phone No.: _____

i. BFI WASTE CODE:

CA	115	110395	04090
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 Containers: _____
 j. Description of Waste: Contaminated Soil k. Quantity: 00020 Units: Y No.: 01 TYPE: T

TYPE	
DM	- METAL DRUM
DP	- PLASTIC DRUM
B	- BAG
BA	- 6 MIL. PLASTIC BAG or WRAP
T	- TRUCK
O	- OTHER

UNITS	
P	- POUNDS
Y	- YARDS
M ³	- CUBIC METERS
Y ³	- CUBIC YARDS
O	- OTHER

GENERATOR'S CERTIFICATION: I hereby certify that the above named material 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; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Generator Authorized Agent Name: Brennan Mahoney Signature: _____ Shipment Date: 11-08-95

Section II. TRANSPORTER (Generator completes a-d; Transporter I complete e-g; Transporter II complete h-n)

TRANSPORTER I
 a. Name: All Chemical Disposal, Inc.
 b. Address: 941-D Berryessa Rd.
San Jose, CA 95133
 c. Driver Name/Title: Hunter PAUL D
 d. Phone No.: (408)453-1660 e. Truck No.: 21
 f. Vehicle License No./State: SP3346
 Acknowledgement of Receipt of Materials: SP3346
 Driver Signature: _____ Shipment Date: 11-08-95

TRANSPORTER II
 h. Name: _____
 i. Address: _____
 j. Driver Name/Title: _____
 k. Phone No.: _____ l. Truck No.: _____
 m. Vehicle License No./State: _____
 Acknowledgement of Receipt of Materials: _____
 Driver Signature: _____ Shipment Date: _____

Section III. DESTINATION (Generator completes a-d; destination site completes e-f)

a. Site Name: PMT Vasco Rd. c. Phone No.: (510)447-0491
 b. Physical Address: 4001 N Vasco Rd. d. Mailing Address: 4001 N. Vasco Rd.
Livermore, CA 94550 e. Mailing Address: Livermore, 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: _____

Section IV. ASBESTOS (Generator complete a-d, f, g; Operator* completes e.)

a. Operator's* Name: _____ b. Operator's* Phone No.: _____
 c. Operator's* Address: _____

d. Special Handling Instructions and additional information: _____

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

Operator's* Name & Title: _____



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

10

If waste is asbestos waste, complete Sections I, II, III and IV.
If waste is NOT asbestos waste, complete only Sections I, II and III.

No. 782403

Section I. GENERATOR (Generator completes all of Section I)

a. Generator Name: WETLANDS b. Generating Location: SAME
 c. Address: 1801 H. BROAD ST d. Address: SAME
ALAMEDA CA
 e. Phone No.: 510-814-1167 f. Phone No.: SAME

If owner of the generating facility differs from the generator, provide:

g. Owner's Name: _____ h. Owner's Phone No.: _____

i. BFI WASTE CODE:

CA	405	110395
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 Containers:

04090

 j. Description of Waste: SOIL k. Quantity:

00020

 Units:

Y

 No.:

01

 TYPE:

-T

- TYPE**
- DM - METAL DRUM
 - DP - PLASTIC DRUM
 - B - BAG
 - BA - 6 MIL. PLASTIC BAG or WRAP
 - T - TRUCK
 - O - OTHER
- UNITS**
- P - POUNDS
 - Y - YARDS
 - M³ - CUBIC METERS
 - Y³ - CUBIC YARDS
 - O - OTHER

GENERATOR'S CERTIFICATION: I hereby certify that the above named material 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; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Generator Authorized Agent Name: Kyrcanun Mahara Signature: _____ Shipment Date:

110875

Section II. TRANSPORTER (Generator complete a-d, Transporter I complete e-g, Transporter II complete h-n)

TRANSPORTER I

a. Name: ALL CHEMICAL DISTRIBUTION
 b. Address: 9411 DISENDRYESSA RD
SAN JOSE 95133 CA
 c. Driver Name/Title: MICHAEL COMBS
PRINT/TITLE
 d. Phone No.: 408 452-1660 e. Truck No.: 7-741
 f. Vehicle License No./State: SP20568 CA
 Acknowledgement of Receipt of Materials.
 Driver Signature: _____ Shipment Date:

110995

TRANSPORTER II

h. Name: _____
 i. Address: _____
 j. Driver Name/Title: _____
PRINT/TITLE
 k. Phone No.: _____ l. Truck No.: _____
 m. Vehicle License No./State: _____
 Acknowledgement of Receipt of Materials.
 Driver Signature: _____ Shipment Date:

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Section III. DESTINATION (Generator completes a-d, destination site completes e-f)

a. Site Name: BFI c. Phone No.: 510-447-0491
 b. Physical Address: WISCO RD d. Mailing Address: _____
LIVERMORE CA
 e. Discrepancy Indication Space: _____

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:

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Section IV. ASBESTOS (Generator complete a-d, f, g, Operator* completes e.)

Operator's* Name: _____ b. Operator's* Phone No.: _____
 Operator's* Address: _____

Special Handling Instructions and additional information: _____

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

Operator's* Name & Title: _____

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NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV.
If waste is NOT asbestos waste, complete only Sections I, II and III

No. 782404

Section I. GENERATOR (Generator completes all of Section I)

a. Generator Name: WEST HAVEN b. Generating Location: STATE
 c. Address: 1801 HUNTER ST d. Address: STATE
ALABAMA CA
 e. Phone No.: 510-814-1167 f. Phone No.: STATE

If owner of the generating facility differs from the generator, provide:
g. Owner's Name: _____ h. Owner's Phone No.: _____

i. BFI WASTE CODE:

CA	405	110095	04090
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 Containers
 j. Description of Waste: SOIL k. Quantity:

00020	4	01	-T
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 Units No. TYPE

- TYPE
 DM - METAL DRUM
 DP - PLASTIC DRUM
 B - BAG
 BA - 6 MIL. PLASTIC BAG or WRAP
 T - TRUCK
 O - OTHER
- UNITS
 P - POUNDS
 Y - YARDS
 M³ - CUBIC METERS
 Y³ - CUBIC YARDS
 O - OTHER

GENERATOR'S CERTIFICATION: I hereby certify that the above named material 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; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Generator Authorized Agent Name: BICOM Signature: _____ Shipment Date:

11	09	95
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Section II. TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n)

TRANSPORTER I
 a. Name: ALL CHEMICAL DISPOSAL
 b. Address: 9411 D WASHINGTON RD
SAN JOSE CA 95133
 c. Driver Name/Title: MICHAEL COMIS PRINT/TITLE
 d. Phone No.: 408-453-1166 e. Truck No.: 7-74
 f. Vehicle License No./State: SP 20568 CA
 Acknowledgement of Receipt of Materials.
 Driver Signature: AAA Shipment Date:

11	09	95
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TRANSPORTER II
 h. Name: _____
 i. Address: _____
 j. Driver Name/Title: _____ PRINT/TITLE
 k. Phone No.: _____ I. Truck No.: _____
 m. Vehicle License No./State: _____
 Acknowledgement of Receipt of Materials.
 n. Driver Signature: _____ Shipment Date:

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Section III. DESTINATION (Generator completes a-d; destination site completes e-f.)

a. Site Name: ISF 1 c. Phone No.: 510-447-2171
 b. Physical Address: VASCO RD d. Mailing Address: _____
EVERHART CA

a. Discrepancy Indication Space: _____
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:

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Section IV. ASBESTOS (Generator complete a-d, f, g; Operator completes e.)

Operator's* Name: _____ b. Operator's* Phone No.: _____
 Operator's* Address: _____

i. Special Handling Instructions and additional information: _____

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

Operator's* Name & Title: _____

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NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV.
If waste is NOT asbestos waste, complete only Sections I, II and III.

No. 782405

Section I. GENERATOR (Generator completes all of Section I)

a. Generator Name: WYLER HOUSE INC b. Generating Location: SMS
 c. Address: 1801 HUNTSWOOD ST d. Address: SMS
ALAMEDA CA
 e. Phone No.: 510-841-1157 f. Phone No.: SMS

If owner of the generating facility differs from the generator, provide:
g. Owner's Name: _____ h. Owner's Phone No.: _____

BFI WASTE CODE:

CA	405	110395
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 Containers:

04	090
----	-----

 Description of Waste: SOIL k. Quantity:

00	020
----	-----

 Units:

Y

 No.:

01

 TYPE:

T

- TYPE**
 DM - METAL DRUM
 DP - PLASTIC DRUM
 B - BAG
 BA - 6 MIL. PLASTIC BAG or WRAP
 T - TRUCK
 O - OTHER
- UNITS**
 P - POUNDS
 Y - YARDS
 M³ - CUBIC METERS
 Y³ - CUBIC YARDS
 O - OTHER

GENERATOR'S CERTIFICATION. I hereby certify that the above named material 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; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer hazardous waste as defined by 40 CFR Part 261.

Doreen Mahoney Generator Authorized Agent Name Signature
 Shipment Date:

11	09	95
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Section II. TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n)

TRANSPORTER I
 a. Name: ALL CHEMICAL DISPOSAL INC
 b. Address: 9411 D BERRYESSA RD
SAN JOSE CA 95133
 c. Driver Name/Title: MIKE LEE COMD
 PRINT/TYPE
 d. Phone No.: 408-453-1660 e. Truck No.: 7-74
 f. Vehicle License No./State: SP 20568 CA
 Acknowledgement of Receipt of Materials.
 Driver Signature: _____ Shipment Date:

11	09	95
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TRANSPORTER II
 h. Name: _____
 i. Address: _____
 j. Driver Name/Title: _____ PRINT/TYPE
 k. Phone No.: _____ l. Truck No.: _____
 m. Vehicle License No./State: _____
 Acknowledgement of Receipt of Materials.
 n. Driver Signature: _____ Shipment Date:

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Section III. DESTINATION (Generator completes a-d; destination site completes e-f)

a. Site Name: BFI c. Phone No.: 510-447-0191
 b. Physical Address: VASCO RD d. Mailing Address: _____
LIVERMORE CA
 e. Discrepancy Indication Space: _____

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:

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Section IV. ASBESTOS (Generator complete a-d, f, g; Operator* completes e.)

1. Operator's* Name: _____ b. Operator's* Phone No.: _____
 2. Operator's* Address: _____
 3. Special Handling Instructions and additional information: _____
 OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, labeled, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

Operator's* Name & Title: _____



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

16

If waste is asbestos waste, complete Sections I, II, III and IV.
If waste is NOT asbestos waste, complete only Sections I, II and III.

No. 782406

Section I. GENERATOR (Generator completes all of Section I)

a. Generator Name: WEYERHAEUSER b. Generating Location: SATE
 c. Address: 1801 H. HANCOCK ST d. Address: SATE
ALAMEDA CA
 e. Phone No.: 510 811 1167 f. Phone No.: SATE

If owner of the generating facility differs from the generator, provide:
 g. Owner's Name: _____ h. Owner's Phone No.: _____

i. BFI WASTE CODE:

CA	405	110395	CA090
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 Containers
 j. Description of Waste: SOL k. Quantity:

00020	4	01	T
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 No. TYPE
 TYPE
 DM - METAL DRUM
 DP - PLASTIC DRUM
 B - BAG
 BA - 6 MIL. PLASTIC BAG or WRAP
 T - TRUCK
 O - OTHER

GENERATOR'S CERTIFICATION: I hereby certify that the above named material 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; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer hazardous waste as defined by 40 CFR Part 261.
 Generator Authorized Agent Name: Brenna Maroney Signature: _____ Shipment Date:

11	07	95
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 UNITS
 P - POUNDS
 Y - YARDS
 M³ - CUBIC METERS
 Y³ - CUBIC YARDS
 O - OTHER

Section II. TRANSPORTER (Generator complete a-d, Transporter I complete e-g, Transporter II complete h-n)

TRANSPORTER I
 a. Name: ALL CHEMICAL DISPOSAL
 b. Address: 9111 D. BOLDWIN BLVD
SAN JOSE CA 95133
 c. Driver Name/Title: MICHAEL COMIS PRINT/TITLE
 d. Phone No.: 408 452 1660 e. Truck No.: 7-T11
 f. Vehicle License No./State: SP 20568 CA
 Acknowledgement of Receipt of Materials.
 Driver Signature: _____ Shipment Date:

11	07	95
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TRANSPORTER II
 h. Name: _____
 i. Address: _____
 j. Driver Name/Title: _____ PRINT/TITLE
 k. Phone No.: _____ l. Truck No.: _____
 m. Vehicle License No./State: _____
 Acknowledgement of Receipt of Materials.
 n. Driver Signature: _____ Shipment Date:

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Section III. DESTINATION (Generator completes a-d, destination site completes e-f)

a. Site Name: CAF c. Phone No.: 510-447-0191
 b. Physical Address: VASCO RD d. Mailing Address: _____
LIVERMORE CA
 e. Discrepancy Indication Space: _____

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:

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Section IV. ASBESTOS (Generator complete a-d, f, g, Operator * completes e.)

a. Operator's* Name: _____ b. Operator's* Phone No.: _____
 c. Operator's* Address: _____
 d. Special Handling Instructions and additional information: _____

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packaged, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

e. Operator's* Name & Title: _____

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NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

17

If waste is asbestos waste, complete Sections I, II, III and IV.
If waste is NOT asbestos waste, complete only Sections I, II and III.

No. 782407

Section I. GENERATOR (Generator completes all of Section I)

a. Generator Name: WELLSERVICES b. Generating Location: SAN
 c. Address: 1801 HILSON RD d. Address: SAN
ALAMEDA CA
 e. Phone No.: 510-811-1167 f. Phone No.: SAN

If owner of the generating facility differs from the generator, provide:
 g. Owner's Name: _____ h. Owner's Phone No.: _____

BFI WASTE CODE

CA	405	110395
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04090

 Containers
 i. Description of Waste: Soil k. Quantity

00020

 Units

Y

 No.

01

 TYPE

-T

- TYPE**
 DM - METAL DRUM
 DP - PLASTIC DRUM
 B - BAG
 BA - 6 MIL. PLASTIC BAG or WRAP
 T - TRUCK
 O - OTHER
- UNITS**
 P - POUNDS
 Y - YARDS
 M³ - CUBIC METERS
 Y³ - CUBIC YARDS
 O - OTHER

GENERATOR'S CERTIFICATION: I hereby certify that the above named material 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; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer hazardous waste as defined by 40 CFR Part 261.

Generator Authorized Agent Name: BIRCHMAN MANNING Signature: _____ Shipment Date:

110595

Section II. TRANSPORTER (Generator complete a-d, Transporter I complete e-g, Transporter II complete h-n)

TRANSPORTER I
 a. Name: ALL CHEMICAL SERVICE
 b. Address: 9411 D WASHINGTON RD
SAN JOSE CA 95103
 c. Driver Name/Title: MICHAEL COMS
 d. Phone No.: 408 453 1660 e. Truck No.: 7-741
 f. Vehicle License No./State: SP 20562 CA
 g. Acknowledgement of Receipt of Materials: _____
 h. Driver Signature: _____ i. Shipment Date:

111095

TRANSPORTER II
 h. Name: _____
 i. Address: _____
 j. Driver Name/Title: _____
 k. Phone No.: _____ l. Truck No.: _____
 m. Vehicle License No./State: _____
 n. Acknowledgement of Receipt of Materials: _____
 o. Driver Signature: _____ p. Shipment Date: _____

Section III. DESTINATION (Generator completes a-d, destination site completes e-f)

a. Site Name: WFI c. Phone No.: 510-417-0491
 b. Physical Address: VANCO RD d. Mailing Address: _____
LIVERMORE CA

Discrepancy Indication Space: _____
 I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Signature of Authorized Agent: _____ Receipt Date:

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Section IV. ASBESTOS (Generator complete a-d, f, g, Operator* completes e.)

a. Operator's* Name: _____ b. Operator's* Phone No.: _____
 c. Operator's* Address: _____

Special Handling Instructions and additional information: _____

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, labeled, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

Operator's* Name & Title: _____



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

18

If waste is asbestos waste, complete Sections I, II, III and IV.
If waste is NOT asbestos waste, complete only Sections I, II and III.

No. 782432

Section I. GENERATOR (Generator completes all of Section I)

a. Generator Name: Nevehauser Alameda b. Generating Location: Nevehauser Alameda
 c. Address: 1801 Hibbard Street d. Address: 1801 Hibbard Street
Alameda, CA 94051 Alameda, CA 94051
 e. Phone No.: (510)814-1157 f. Phone No.: (510)814-1157

If owner of the generating facility differs from the generator, provide:

g. Owner's Name: _____ h. Owner's Phone No.: _____

i. BFI WASTE CODE

CA	41E	110313
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04070

 Containers _____
 j. Description of Waste: Contaminated Soil k. Quantity

00020

 Units

4

 No.

01

 TYPE

T

- TYPE
- DM - METAL DRUM
 - DP - PLASTIC DRUM
 - B - BAG
 - BA - 6 MIL. PLASTIC BAG or WRAP
 - T - TRUCK
 - O - OTHER
- UNITS
- P - POUNDS
 - Y - YARDS
 - M³ - CUBIC METERS
 - Y³ - CUBIC YARDS
 - O - OTHER

GENERATOR'S CERTIFICATION: I hereby certify that the above named material 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; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer hazardous waste as defined by 40 CFR Part 261.

Generator Authorized Agent Name Debra M. Murray Signature _____ Shipment Date

11	29	95
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Section II. TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n)

TRANSPORTER I

a. Name: All Chemical Disposal, Inc.
 b. Address: 941-D Berryessa Rd.
San Jose, CA 95133
 c. Driver Name/Title: MICHAEL COMIS
PRINT/TITLE
 d. Phone No.: (408)453-1660 e. Truck No.: 7-74
 f. Vehicle License No./State: SP 20548 CA
 Acknowledgement of Receipt of Materials.
 Driver Signature _____ Shipment Date

11	10	95
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TRANSPORTER II

h. Name: _____
 i. Address: _____
 j. Driver Name/Title: _____
PRINT/TITLE
 k. Phone No.: _____ l. Truck No.: _____
 m. Vehicle License No./State: _____
 Acknowledgement of Receipt of Materials.
 Driver Signature _____ Shipment Date _____

Section III. DESTINATION (Generator completes a-d; destination site completes e-f)

a. Site Name: BFI Vasco #1 c. Phone No.: (510)467-0491
 b. Physical Address: 4001 N Vasco Rd. d. Mailing Address: 4001 N. Vasco Rd.
Livermore, CA 94550 Livermore, CA 94550

Discrepancy Indication Space: _____
 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

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Section IV. ASBESTOS (Generator complete a-d, f, g; Operator* completes e.)

Operator's* Name: _____ b. Operator's* Phone No.: _____
 Operator's* Address: _____
 Special Handling Instructions and additional information: _____

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

19

If waste is asbestos waste, complete Sections I, II, III and IV.
If waste is NOT asbestos waste, complete only Sections I, II and III.

No. 782433

Section I. GENERATOR (Generator completes all of Section I)

a. Generator Name: Weyerhaeuser Alameda b. Generating Location: Weyerhaeuser Alameda
 c. Address: 1801 Wilburd Street d. Address: 1801 Wilburd Street
Alameda, CA 94051 Alameda, CA 94051
 e. Phone No.: (510) 914-1167 f. Phone No.: (510) 914-1167

If owner of the generating facility differs from the generator, provide:
 g. Owner's Name: _____ h. Owner's Phone No.: _____

i. BFI WASTE CODE

CA	405	110390	04090
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 Containers
 j. Description of Waste: Contaminated Soil k. Quantity

00020	Y	01	-T
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 No. TYPE
 TYPE
 DM - METAL DRUM
 DP - PLASTIC DRUM
 B - BAG
 BA - 6 MIL. PLASTIC BAG or WRAP
 T - TRUCK
 O - OTHER

GENERATOR'S CERTIFICATION. I hereby certify that the above named material 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; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer hazardous waste as defined by 40 CFR Part 261.
 Generator Authorized Agent Name: Brennan McManey Signature: _____ Shipment Date:

11	09	95
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 UNITS
 P - POUNDS
 Y - YARDS
 M³ - CUBIC METERS
 Y³ - CUBIC YARDS
 O - OTHER

Section II. TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n)

TRANSPORTER I
 a. Name: ALL Chemical Disposal, Inc.
 b. Address: 941-D Berryessa Rd.
San Jose, CA 95133
 c. Driver Name/Title: MICHAEL CANN PRINT/TITLE
 d. Phone No.: (408) 453-1660 e. Truck No.: 7-74
 f. Vehicle License No./State: SP 20568 CA
 Acknowledgement of Receipt of Materials.
 Driver Signature: _____ Shipment Date:

11	10	95
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TRANSPORTER II
 h. Name: _____
 i. Address: _____
 j. Driver Name/Title: _____ PRINT/TITLE
 k. Phone No.: _____ l. Truck No.: _____
 m. Vehicle License No./State: _____
 Acknowledgement of Receipt of Materials.
 Driver Signature: _____ Shipment Date: _____

Section III. DESTINATION (Generator completes a-d, destination site completes e-f)

U. Site Name: RFT Vasco Rd. c. Phone No.: (510) 447-0491
 v. Physical Address: 4001 N. Vasco Rd. d. Mailing Address: 4001 N. Vasco Rd.
Livermore, CA 94550 Livermore, CA 94550

w. Discrepancy Indication Space: _____
 x. 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:

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Section IV. ASBESTOS (Generator complete a-d, f, g, Operator * completes e.)

a. Operator's * Name: _____ b. Operator's * Phone No.: _____
 c. Operator's * Address: _____
 Special Handling Instructions and additional information: _____

GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, labeled, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

Operator's * Name & Title: _____



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

20

If waste is asbestos waste, complete Sections I, II, III and IV.
If waste is NOT asbestos waste, complete only Sections I, II and III.

No. 782435

Section I. GENERATOR (Generator completes all of Section I)

Generator Name: Doverhouser Alameda b. Generating Location: Doverhouser Alameda
 Address: 1801 Alameda Street d. Address: 1801 Alameda Street
Alameda, CA 94051 Alameda, CA 94051
 Phone No.: (510)814-1167 f. Phone No.: (510)814-1167

If owner of the generating facility differs from the generator, provide:

Owner's Name: _____ h. Owner's Phone No.: _____

i. BFI WASTE CODE

CA	905	110395	04090
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 Containers
 Description of Waste: Contaminated Soil k. Quantity

00020

 Units

Y

 No.

01

 TYPE

-	T
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TYPE	
DM	- METAL DRUM
DP	- PLASTIC DRUM
B	- BAG
BA	- 6 MIL. PLASTIC BAG or WRAP
T	- TRUCK
O	- OTHER

UNITS	
P	- POUNDS
Y	- YARDS
M ³	- CUBIC METERS
Y ³	- CUBIC YARDS
O	- OTHER

GENERATOR'S CERTIFICATION: I hereby certify that the above named material 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; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261

Brennan Mahoney Generator Authorized Agent Name
[Signature] Signature
110995 Shipment Date

Section II. TRANSPORTER (Generator complete a-d, Transporter I complete e-g, Transporter II complete h-n)

TRANSPORTER I
 a. Name: All Chemical Disposal, Inc.
 b. Address: 941-D Berryessa Rd.
San Jose, CA 95133
 c. Driver Name/Title: Michael Cho
 d. Phone No.: (408)453-1650 e. Truck No.: 7-111
 f. Vehicle License No./State: P 20568
 Acknowledgement of Receipt of Materials.
[Signature] Driver Signature
111395 Shipment Date

TRANSPORTER II
 h. Name: _____
 i. Address: _____
 j. Driver Name/Title: _____
 k. Phone No.: _____ l. Truck No.: _____
 m. Vehicle License No./State: _____
 Acknowledgement of Receipt of Materials.
 n. _____
 Driver Signature _____
 Shipment Date _____

Section III. DESTINATION (Generator completes a-d, destination site completes e-f)

a. Site Name: BFI Vasco Rd. c. Phone No.: (510)447-0491
 b. Physical Address: 4001 N Vasco Rd. d. Mailing Address: 4001 N. Vasco Rd.
Livermore, CA 94550 Livermore, CA 94550

i. Discrepancy Indication Space: _____
 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

Section IV. ASBESTOS (Generator complete a-d, f, g, Operator* completes e.)

Operator's* Name: _____ b. Operator's* Phone No.: _____

Operator's* Address: _____

Special Handling Instructions and additional information: _____

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

Operator's* Name & Title: _____



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

(21)

If waste is asbestos waste, complete Sections I, II, III and IV.
If waste is NOT asbestos waste, complete only Sections I, II and III.

No. 782436

Section I. GENERATOR (Generator completes all of Section I)

Generator Name: Weyerhaeuser Alameda b. Generating Location: Weyerhaeuser Alameda
 Address: 1801 Hibbard Street d. Address: 1801 Hibbard Street
Alameda, CA 94051 Alameda, CA 94051
 Phone No.: (510)814-1157 f. Phone No.: (510)814-1157

If owner of the generating facility differs from the generator, provide:

Owner's Name: _____ h. Owner's Phone No.: _____

i. BFI WASTE CODE

CA	405	1110395	C4070
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 Containers
 Description of Waste: Contaminated Soil k. Quantity

C	0	0	2	0
---	---	---	---	---

 Units

Y

 No.

0	1
---	---

 TYPE

-	T
---	---

TYPE	
DM	- METAL DRUM
DP	- PLASTIC DRUM
B	- BAG
BA	- 6 MIL. PLASTIC BAG or WRAP
T	- TRUCK
O	- OTHER
UNITS	
P	- POUNDS
Y	- YARDS
M ³	- CUBIC METERS
Y ³	- CUBIC YARDS
O	- OTHER

GENERATOR'S CERTIFICATION: I hereby certify that the above named material 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; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261

Generator Authorized Agent Name [Signature] Signature [Signature] Shipment Date

11	27	78
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Section II. TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n)

TRANSPORTER I
 Name: 411 Chemical Disposal, Inc.
 Address: 941-D Berryessa Rd.
San Jose, CA 95133
 Driver Name/Title: MICHAEL GOMIS
PRINT/TITLE
 Phone No.: (408)452-1650 e. Truck No.: 7-741
 Vehicle License No./State: 9 20568 CA
 Acknowledgement of Receipt of Materials.
 Driver Signature [Signature] Shipment Date

11	13	95
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TRANSPORTER II
 h. Name: _____
 i. Address: _____
 j. Driver Name/Title: _____
PRINT/TITLE
 k. Phone No.: _____ l. Truck No.: _____
 m. Vehicle License No./State: _____
 Acknowledgement of Receipt of Materials.
 n. _____
 Driver Signature _____ Shipment Date

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Section III. DESTINATION (Generator completes a-d; destination site completes e-f)

a. Site Name: RFI Vasco Rd. c. Phone No.: (510)447-0491
 b. Physical Address: 4001 N. Vasco Rd. d. Mailing Address: 4001 N. Vasco Rd.
Livermore, CA 94550 Livermore, CA 94550
 e. Discrepancy Indication Space: _____

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

f. Name of Authorized Agent _____ Signature _____ Receipt Date

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Section IV. ASBESTOS (Generator complete a-d, f, g; Operator* completes e)

a. Operator's* Name: _____ b. Operator's* Phone No.: _____
 Operator's* Address: _____

f. Special Handling Instructions and additional information: _____

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

Operator's* Name & Title: _____



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

72

If waste is asbestos waste, complete Sections I, II, III and IV.
If waste is NOT asbestos waste, complete only Sections I, II and III

No. 782437

Section I. GENERATOR (Generator completes all of Section I)

Generator Name: Meyerhauser Alameda b. Generating Location: Meyerhauser Alameda
 Address: 1801 Hibbard Street d. Address: 1801 Hibbard Street
Alameda, CA 94051 Alameda, CA 94051
 Phone No.: (510) 814-1167 f. Phone No.: (510) 814-1167

If owner of the generating facility differs from the generator, provide:

Owner's Name: _____ h. Owner's Phone No.: _____

i. BFI WASTE CODE CA 405 110315 04090 Containers _____
 Description of Waste: Contaminated Soil k. Quantity 00020 Units Y No. 01 TYPE -T

TYPE	
DM	- METAL DRUM
DP	- PLASTIC DRUM
B	- BAG
BA	- 6 MIL. PLASTIC BAG or WRAP
T	- TRUCK
O	- OTHER

UNITS	
P	- POUNDS
Y	- YARDS
M ³	- CUBIC METERS
Y ³	- CUBIC YARDS
O	- OTHER

GENERATOR'S CERTIFICATION: I hereby certify that the above named material 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; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Generator Authorized Agent Name Brian Mahoney Signature [Signature] Shipment Date 11-29-95

Section II. TRANSPORTER (Generator complete a-d, Transporter I complete e-g, Transporter II complete h-n)

TRANSPORTER I
 Name: All Chemical Disposal, Inc.
 Address: 941-D Ferrvessa Rd.
San Jose, CA 95133
 Driver Name/Title: Michael Combs
 d. Phone No.: (408) 453-1660 e. Truck No.: 7741
 Vehicle License No./State: 6P 20568 CA
 Acknowledgement of Receipt of Materials.
 Driver Signature [Signature] Shipment Date 11-29-95

TRANSPORTER II
 h. Name: _____
 i. Address: _____
 j. Driver Name/Title: _____
 k. Phone No.: _____ l. Truck No.: _____
 m. Vehicle License No./State: _____
 Acknowledgement of Receipt of Materials.
 n. _____ Shipment Date _____

Section III. DESTINATION (Generator completes a-d, destination site completes e-f)

a. Site Name: RFT Vasco Rd. c. Phone No.: (510) 447-0491
 b. Physical Address: 4001 N Vasco Rd. d. Mailing Address: 4001 N. Vasco Rd.
Livermore, CA 94550 Livermore, CA 94550

e. Discrepancy Indication Space: _____

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 _____

Section IV. ASBESTOS (Generator complete a-d, f, g, Operator* completes e.)

i. Operator's* Name: _____ b. Operator's* Phone No.: _____

Operator's* Address: _____

Special Handling Instructions and additional information: _____

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, red, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

Operator's* Name & Title: _____



ZONE 7 WATER AGENCY

5997 PARKSIDE DRIVE PLEASANTON, CALIFORNIA 94588

VOICE (510) 484-2600

FAX (510) 462-3914

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT 1801 Hibbard
Alameda CA 94501

PERMIT NUMBER _____
LOCATION NUMBER _____

CLIENT
Name Weyerhaeuser
Address CHICK 29 Voice 206 924 3934
City TACOMA WA Zip 98477

PERMIT CONDITIONS

Circled Permit Requirements Apply

APPLICANT
Name West & Assoc. Fax 707 447 0631
Address PO Box 5891 Voice 707 451 1360
City VACAVILLE CA Zip 95699

A. GENERAL

1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date.
2. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well Projects, or drilling logs and location sketch for geotechnical projects.
3. Permit is void if project not begun within 90 days of approval date.

TYPE OF PROJECT

Well Construction	_____	Geotechnical Investigation	_____
Cathodic Protection	_____	General	_____
Water Supply	_____	Contamination	_____
Monitoring	_____	Well Destruction	<input checked="" type="checkbox"/>

B. WATER WELLS, INCLUDING PIEZOMETERS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

PROPOSED WATER SUPPLY WELL USE

Domestic	_____	Industrial	_____	Other	_____
Municipal	_____	Irrigation	_____		

C. GEOTECHNICAL. Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.

DRILLING METHOD:

Mud Rotary _____ Air Rotary _____ Auger _____
Cable _____ Other EXCAVATION

D. CATHODIC. Fill hole above anode zone with concrete placed by tremie.

DRILLER'S LICENSE NO. NA

E. WELL DESTRUCTION. See attached.

WELL PROJECTS

Drill Hole Diameter	_____ in.	Maximum	
Casing Diameter	_____ in.	Depth	_____ ft.
Surface Seal Depth	_____ ft.	Number	<u>3</u>

GEOTECHNICAL PROJECTS

Number of Borings	_____	Maximum	
Hole Diameter	_____ in.	Depth	_____ ft.

ESTIMATED STARTING DATE 10-10-95
ESTIMATED COMPLETION DATE 10-20-95

Approved _____ Date _____

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE Brian West Date 10-3-95



ZONE 7 WATER AGENCY

5997 PARKSIDE DRIVE

PLEASANTON, CALIFORNIA 94588

VOICE (510) 484-2600

FAX (510) 462-3914

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT 1801 Hibbard
Alameda, CA 94501

PERMIT NUMBER _____
LOCATION NUMBER _____

CLIENT
Name Weyerhaeuser
Address CH 1K29 Voice 2069243934
City TACOMA, WA Zip 98477

PERMIT CONDITIONS

Circled Permit Requirements Apply

APPLICANT
Name West & Assoc. Fax 7074470631
Address PO Box 5891 Voice 7074511360
City VACAVILLE Zip 95696

A. GENERAL

1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date.
2. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well Projects, or drilling logs and location sketch for geotechnical projects.
3. Permit is void if project not begun within 90 days of approval date.

B. WATER WELLS, INCLUDING PIEZOMETERS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

C. GEOTECHNICAL. Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.

D. CATHODIC. Fill hole above anode zone with concrete placed by tremie.

E. WELL DESTRUCTION. See attached.

TYPE OF PROJECT
Well Construction _____ Geotechnical Investigation _____
Cathodic Protection _____ General _____
Water Supply _____ Contamination _____
Monitoring _____ Well Destruction X

PROPOSED WATER SUPPLY WELL USE
Domestic _____ Industrial _____ Other NA
Municipal _____ Irrigation _____

DRILLING METHOD:
Mud Rotary _____ Air Rotary _____ Auger _____
Cable _____ Other EXCAVATION

DRILLER'S LICENSE NO. C-57 484288

WELL PROJECTS
Drill Hole Diameter _____ in. Maximum _____
Casing Diameter _____ in. Depth _____ ft.
Surface Seal Depth _____ ft. Number 1

GEOTECHNICAL PROJECTS
Number of Borings _____ Maximum _____
Hole Diameter _____ in. Depth _____ ft.

ESTIMATED STARTING DATE 10-12-95
ESTIMATED COMPLETION DATE 10-13-95

Approved _____ Date _____

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE Brian West Date 10-6-95



ZONE 7 WATER AGENCY

5997 PARKSIDE DRIVE PLEASANTON, CALIFORNIA 94588

VOICE (510) 484-2600

FAX (510) 462-3914

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT 1801 Hibbard Str
Alameda 94501

PERMIT NUMBER _____
LOCATION NUMBER _____

CLIENT
Name Weyerhaeuser
Address CHLK29 Voice 2069246511
City Tacoma, WA Zip 98477

PERMIT CONDITIONS

Circled Permit Requirements Apply

APPLICANT
Name West & Associates Fax 707 447 0631
Address PO Box 5891 Voice 707 451 1360
City Vacaville CA Zip 95696

A. GENERAL

1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date.
2. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well Projects, or drilling logs and location sketch for geotechnical projects.
3. Permit is void if project not begun within 90 days of approval date.

B. WATER WELLS, INCLUDING PIEZOMETERS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

C. GEOTECHNICAL. Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.

D. CATHODIC. Fill hole above anode zone with concrete placed by tremie.

E. WELL DESTRUCTION. See attached.

TYPE OF PROJECT
Well Construction _____ Geotechnical Investigation _____
Cathodic Protection _____ General _____
Water Supply _____ Contamination _____
Monitoring X Well Destruction _____

PROPOSED WATER SUPPLY WELL USE
Domestic _____ Industrial _____ Other Sampling
Municipal _____ Irrigation _____

DRILLING METHOD:
Mud Rotary _____ Air Rotary _____ Auger ✓
Cable _____ Other _____

DRIILLER'S LICENSE NO. C-57 484288

WELL PROJECTS
Drill Hole Diameter 12 in. Maximum _____
Casing Diameter 4 in. Depth 15 ft.
Surface Seal Depth 5 ft. Number 1

GEOTECHNICAL PROJECTS
Number of Borings _____ Maximum _____
Hole Diameter _____ in. Depth _____ ft.

ESTIMATED STARTING DATE NOV. 14, 1994
ESTIMATED COMPLETION DATE NOV. 16, 1994

Approved _____ Date _____

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE Brian West Date 11-1-94



ZONE 7 WATER AGENCY

5997 PARKSIDE DRIVE

PLEASANTON, CALIFORNIA 94588

VOICE (510) 484-2600

FAX (510) 462-3914

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT 1801 Hibbard
Alameda, CA 94501

PERMIT NUMBER _____
LOCATION NUMBER _____

CLIENT
Name Weyerhaeuser
Address CH 1K29 Voice 2069243934
City Tacoma, WA Zip 98477

PERMIT CONDITIONS

Circled Permit Requirements Apply

APPLICANT
Name West & Assoc. Fax 7074470631
Address PO Box 5891 Voice 7074511360
City VACAVILLE Zip 95696

A. GENERAL

1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date.
2. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well Projects, or drilling logs and location sketch for geotechnical projects.
3. Permit is void if project not begun within 90 days of approval date.

TYPE OF PROJECT
Well Construction _____ Geotechnical Investigation _____
Cathodic Protection _____ General _____
Water Supply _____ Contamination _____
Monitoring Well Destruction _____

B. WATER WELLS, INCLUDING PIEZOMETERS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

PROPOSED WATER SUPPLY WELL USE
Domestic _____ Industrial _____ Other Sampling
Municipal _____ Irrigation _____

C. GEOTECHNICAL. Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.

DRILLING METHOD:
Mud Rotary _____ Air Rotary _____ Auger
Cable _____ Other _____

D. CATHODIC. Fill hole above anode zone with concrete placed by tremie.

DRILLER'S LICENSE NO. C-57 484288

E. WELL DESTRUCTION. See attached.

WELL PROJECTS
Drill Hole Diameter 10 in. Maximum _____
Casing Diameter 4 in. Depth 12 ft.
Surface Seal Depth 3 ft. Number 3

GEOTECHNICAL PROJECTS
Number of Borings _____ Maximum _____
Hole Diameter _____ in. Depth _____ ft.

ESTIMATED STARTING DATE 10-23-95
ESTIMATED COMPLETION DATE 10-25-95

Approved _____ Date _____

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE Brian West Date 10-6-95