AEI CONSULTANTS
Environmental & Civil Engineering Services

3210 Old Tunnel Road, Suite B, Lafayette, CA 94549-4157
Phone: (925) 283-6000 Fax: (925) 283-6121

August 16, 2000

Mr. Barney Chan
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

1650

Subject: **Over-Excavation and Tank Removal**
807 75th Avenue
Oakland, CA 94621
AEI Project No. 3456

Dear Mr. Chan:

Enclosed is the over-excavation report for the property referenced above. Please call me at (925) 283-6000 if you have any questions.

Sincerely,

John Ormerod
Environmental Scientist

00 AUG 17 PM 2:30

last correspondence
1/17 SSI 807 75th

August 16, 2000

OVER-EXCAVATION AND TANK REMOVAL

April 2000

807 75th Avenue
Oakland, California

Project No. 3456

Prepared For

Mr. Allen Kanady
Omega Termite
807 75th Avenue
Oakland, CA 94621

Prepared By

AEI Consultants
3210 Old Tunnel Road, Suite B
Lafayette, CA 94549
(800) 801-3224

AEI

AEI
CONSULTANTS
ENVIRONMENTAL & CIVIL ENGINEERING SERVICES

3210 Old Tunnel Road, Suite B, Lafayette, CA 94549-4157
Phone: (925) 283-6000 Fax: (925) 283-6121

August 16, 2000

Mr. Allen Kanady
Omega Termite
807 75th Avenue
Oakland, CA 94621

Subject: **Over-Excavation and Tank Removal**
807 75th Avenue
Oakland, CA 94621
AEI Project No. 3456

Dear Mr. Kanady:

The following letter report documents the activities and results of the over-excavation, off-haul and disposal of contaminated soil performed by AEI Consultants (AEI) at the above referenced property. AEI was contracted to remove soil contaminated with gasoline from the former location of three underground storage tanks (UST) located between the two buildings on the subject property (Figure 1: Site Location and Figure 2 Site Plan). The removal activities were performed at the request of Alameda County Health Care Services Agency (ACHCSA).

I. Site Background

The subject property is located on the north corner of the intersection of 75th Avenue and Snell Street. The site currently supports the operation of Omega Termite Control.

On September 15, 1996, All Environmental, Inc. (currently AEI Consultants), removed three gasoline underground storage tanks (USTs) from the subject property. The tanks consisted of one 8,000-gallon UST, one 1,000-gallon UST, and one 500-gallon UST. The former locations of the tanks are shown in Figures 2 and 3.

Soil samples collected after the tank removal indicated that the soil beneath the 500-gallon UST is impacted with 4300 mg/kg TPH as gasoline. High concentrations of TPH as gasoline are also present on the western and northwestern sidewall of the UST excavation as high as 2600 mg/kg. Analysis of the soil samples collected from the eastern sidewall of the 8,000 gallon UST excavation and from beneath the 1,000 gallon UST revealed the presence of TPH as gasoline at minor concentrations. TPH as gasoline is present within the stockpiled soil samples at concentrations between 630 mg/kg and 810 mg/kg. Analysis of the single grab groundwater sample indicated that groundwater beneath the site is impacted with TPH as gasoline at 48,000 µg/L.

The stockpiled soil was aerated. Soil samples collected from the stockpiled soil contained non-detectable to minor concentrations of TPH as gasoline. The stockpiled soil was approved to be used as backfill material by Mr. Barney Chan of the ACHCSA.

II. Excavation Activities

March 16, 2000

[redacted] briefed and the Site Health and Safety Plan was reviewed prior to the removal of the contaminated soil and groundwater. The bottom of the excavation was at 7 feet below ground surface (bgs). A mixture of groundwater and surface runoff was present in the bottom 2 feet of the excavation. The contaminated groundwater in the excavation was pumped into, and completely filled, a 6,900-gallon Baker tank that was stored onsite. Once the groundwater was removed the excavation was expanded in all directions. Expansion of the excavation was limited on all sides due to the buildings to the north and south, the main entrance road to the property to the east, and a monitoring well to the west. The excavated soil was stockpiled on the northeast portion of the subject property. For a visual reference of the site refer to Figure 2: Site Map.

During the excavation activities an additional 500-gallon UST was discovered on the east portion of the excavation. Upon discovery of the UST, Inspector Leroy Griffin of the Oakland Fire Services Agency (OFSA) was contacted to observe the removal of the tank. Inspector Griffin granted permission to remove the tank with the understanding that the proper permits would be obtained. The tank was removed and set aside from the excavation until disposal arrangements could be made. The following day the tank removal application was submitted to the OFSA. On April 4, 2000 the permit to remove the UST from the subject property was issued.

After removal of the tank, the removal of contaminated soil continued. The final dimensions of the excavation measured approximately 29 feet wide by 48 feet long, by 11.5 feet deep on the west end of the excavation and 8 feet deep on the east end of the excavation.

Soil samples were collected from the excavation bottom and sidewalls prior to backfilling. A PVC pipe measuring four inches in diameter by ten feet long was placed on the east end of the excavation to act as a temporary extraction well. Several holes were drilled into the PVC pipe prior to placement in the excavation. The excavation was backfilled with pea gravel to five feet bgs. The stockpiled soil from the original tank removal activities in 1996 was used to backfill the excavation.

actually slots were cut into Piping

March 20, 2000

On March 20, 2000 the UST was loaded onto an Ecology Control Industries' truck and transported under non-hazardous waste manifest to the Ecology Control Industries' disposal facility at 255 Parr Boulevard in Richmond, California, where the tank was triple rinsed, cut, and scrapped. Dry ice was loaded into the tank prior to transport. The tank was in poor condition. Rust was observed on all sides of the tank and holes were present in each end of the tank.

III. Sampling and Analysis

A total of five soil samples were collected from the excavation. One sidewall soil sample was collected from each of the north, east, and south sidewalls of the excavation at eight feet bgs. Samples were labeled AEI SW North 8', AEI SW East 8' and AEI SW South 8'. Two soil samples were collected from the excavation bottom. One sample labeled AEI EB 7', was collected at seven feet bgs, approximately two feet beneath the bottom of the newly discovered 500-gallon UST. The second excavation bottom sample, labeled AEI EB West 11.5', was collected from the west end of the excavation at 11.5 feet bgs. Eight discrete soil samples were collected from the stockpile, and were composited into two samples (AEI STKP 1-4 and AEI STKP 5-8) for analysis. Please refer to Figure 3: Sample Location Plan for the sample locations.

After the groundwater was pumped from the excavation into the Baker tank, one grab groundwater sample was collected from the Baker tank. The groundwater sample was labeled AEI Tank. This sample was collected to determine if the concentration of petroleum hydrocarbons in the groundwater were within East Bay Municipal Utility District's (EBMUD) limits for discharging water to the sanitary sewer.

All soil samples were collected in brass tubes that were driven into the soil until completely full, then sealed with Teflon tape and plastic caps. The groundwater sample was collected in two 40-ml VOA vials and one 500-ml preserved plastic bottle. The secured sample tubes were immediately placed into a cooler with ice. Chain of Custody documentation was initiated. The cooler and samples were brought to McCampbell Analytical, Inc. (State Certification #1644) of Pacheco, California on March 16, 2000 for analysis.

The samples were analyzed for Total Petroleum Hydrocarbons as gasoline (EPA 8015), Total Lead (EPA Method 6010/200), methyl-tert-butyl ether (MTBE), and benzene, toluene, ethyl-benzene, and xylenes (BTEX) (EPA Method 602/8020). The analytical results are summarized in the following tables:

TABLE 1 - Soil Sample Analyses

	AEI SW South 8'	AEI SW North 8'	AEI SW East 8'	AEI EB 7	AEI EB West 11.5'	AEI STKP 1-4	AEI STKP 5-8
TPH-GASOLINE (mg/kg)	290	1.8	1800	560	280	39	440
TPH-DIESEL (mg/kg)	NA	NA	NA	220	NA	NA	NA
OIL AND GREASE (mg/kg)	NA	NA	NA	100	NA	NA	NA
MTBE (mg/kg)	<0.2	<0.05	<5.0	<1.0	<0.21	<0.05	<0.2
BENZENE (mg/kg)	0.84	<0.005	12	0.59	2.7	0.038	0.42
TOLUENE (mg/kg)	2.0	<0.005	65	4.9	6.6	0.44	3.4
ETHYL BENZENE (mg/kg)	6.3	0.007	32	7.3	5.2	0.39	6.2
TOTAL XYLENES (mg/kg)	1.3	0.008	160	40	23	2.5	30
TOTAL LEAD (mg/kg)	9.1	7.3	7.4	7.5	5.9	40	24

mg/kg = milligrams per kilogram (ppm)
ND = not detected above the reporting limit
NA = not analyzed

TABLE 2 - Groundwater Sample Analyses

	AEI Tank
TPH-GASOLINE (µg/L)	56
MTBE (µg/L)	<5.0
BENZENE (µg/L)	1.4
TOLUENE (µg/L)	0.51
ETHYL BENZENE (µg/L)	1.3
TOTAL XYLENES (µg/L)	3.9
TOTAL LEAD (mg/L)	<0.005

µg/L = micrograms per liter (ppb)
mg/L = milligrams per liter (ppm)

Copies of all analytical results and Chain of Custody documentation are located in Appendix D: Analytical Documentation.

IV. Discharge of Groundwater

The permit to discharge groundwater to the sanitary sewer was issued on February 11, 2000 by the EBMUD. The concentrations of petroleum hydrocarbons in sample AEI Tank were within the EBMUD's limits for petroleum hydrocarbons released to the sanitary sewer. On March 22, 2000, AEI discharged the groundwater that was stored in the Baker tank into the sanitary sewer under the direction of the EBMUD. The groundwater was filtered in order to prevent sediment from entering the sanitary sewer. In addition to the water released from the Baker tank, approximately 500 gallons of groundwater were pumped from the temporary extraction well, through the filter, and into the sanitary sewer. A total of 7,400 gallons of groundwater was removed from the subject property and released into the sanitary sewer.

V. Summary and Conclusions

On September 15, 1996, three gasoline underground storage tanks were removed from the subject property. Soil samples collected from the excavation during the tank removal activities contained concentrations of TPH as gasoline as high as 4,300 mg/kg. The grab groundwater sample collected following the tank removal contained concentrations of TPH as gasoline at 48,000 µg/L.

On March 16, 2000, the former UST excavation was expanded to remove soil contaminated with gasoline. Prior to the removal of the soil, the water that was in the excavation was pumped into a Baker tank and stored on-site. The excavation was expanded in all directions. The contaminated soil was stockpiled on the north portion of the property and covered with visqueen.

During the over-excavation activities a 500-gallon UST was discovered on the east corner of the excavation. The tank was removed and additional contaminated soil was removed from the area of the former tank. Inspector Griffin of the OFSA observed the tank removal activities. On March 20, 2000, the tank was off-hauled under manifest to Ecology Control Industries' disposal facility in Richmond.

Soil samples were collected following the removal of the UST and the contaminated soil. Two excavation bottom samples were collected and three sidewall samples were collected from the excavation. The sidewall sample AEI SW East 8' contained elevated concentrations of TPH as gasoline at 1,800 mg/kg and elevated concentrations of benzene at 12 mg/kg. The remaining samples collected from the excavation contained concentrations of TPH as gasoline ranging from 1.8 mg/kg to 560 mg/kg and benzene ranging from non-detectable levels to 2.7 mg/kg. Further expansion of the excavation was limited on all sides due to the buildings to the north and south, the access way to the east and a monitoring well to the west. Stockpile samples contained concentrations of TPH as gasoline ranging from 39 mg/kg to 440 mg/kg.

One grab sample was collected from the groundwater that was stored in the Baker tank. Concentrations of TPH as gasoline were detected in the water sample at 56 µg/L. Minor concentrations of benzene were also detected at 1.4 µg/L. The concentrations of petroleum hydrocarbons were within the EBMUD's limits to release the water into the sanitary sewer. On March 22, 2000, a total of 7,400 gallons of groundwater was released into the sanitary sewer.

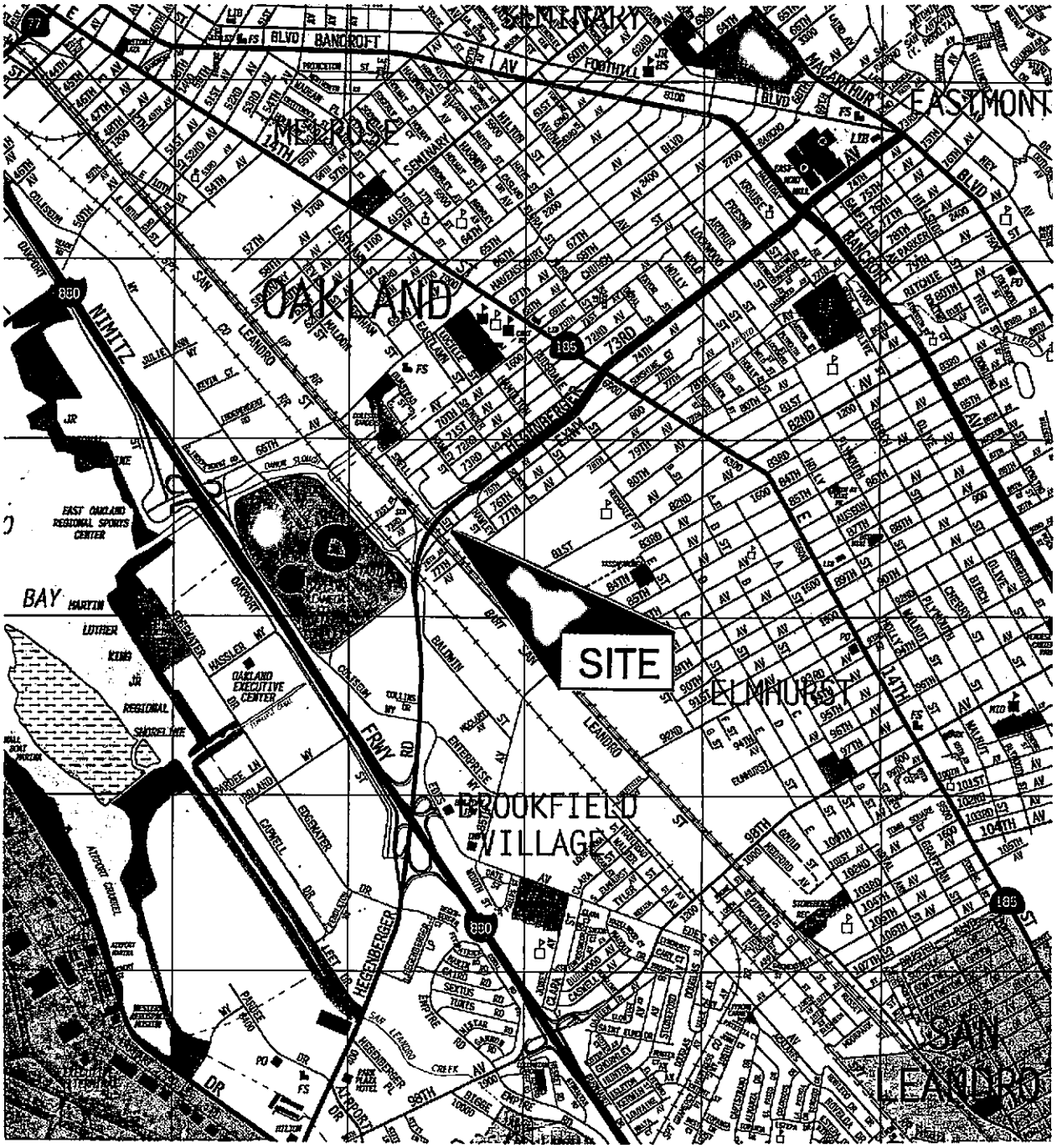
With the removal of the newly discovered UST, the contaminated soil, and the contaminated groundwater, a significant portion of the pollution source has been removed from the excavation. Based on the analytical results elevated concentrations of petroleum hydrocarbons remain in the soil. Further excavation of contaminated soil was not possible due to the limitations caused by the buildings, monitoring well and driveway. AEI recommends continued monitoring of the groundwater wells on the subject property. AEI also recommends that the stockpiled soil to be either off-hauled for disposal or treated so the concentrations of petroleum hydrocarbons are decreased to acceptable limits for onsite use.

also ext. well casing

Sincerely,

John Ormerod
Environmental Scientist

Figures
Appendix A: Permits and Notification Documents
Appendix B: Site Health and Safety Plan
Appendix C: Transport and Disposal Documents
Appendix D: Analytical Documentation



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FROM:
THE THOMAS GUIDE
1997 EDITION

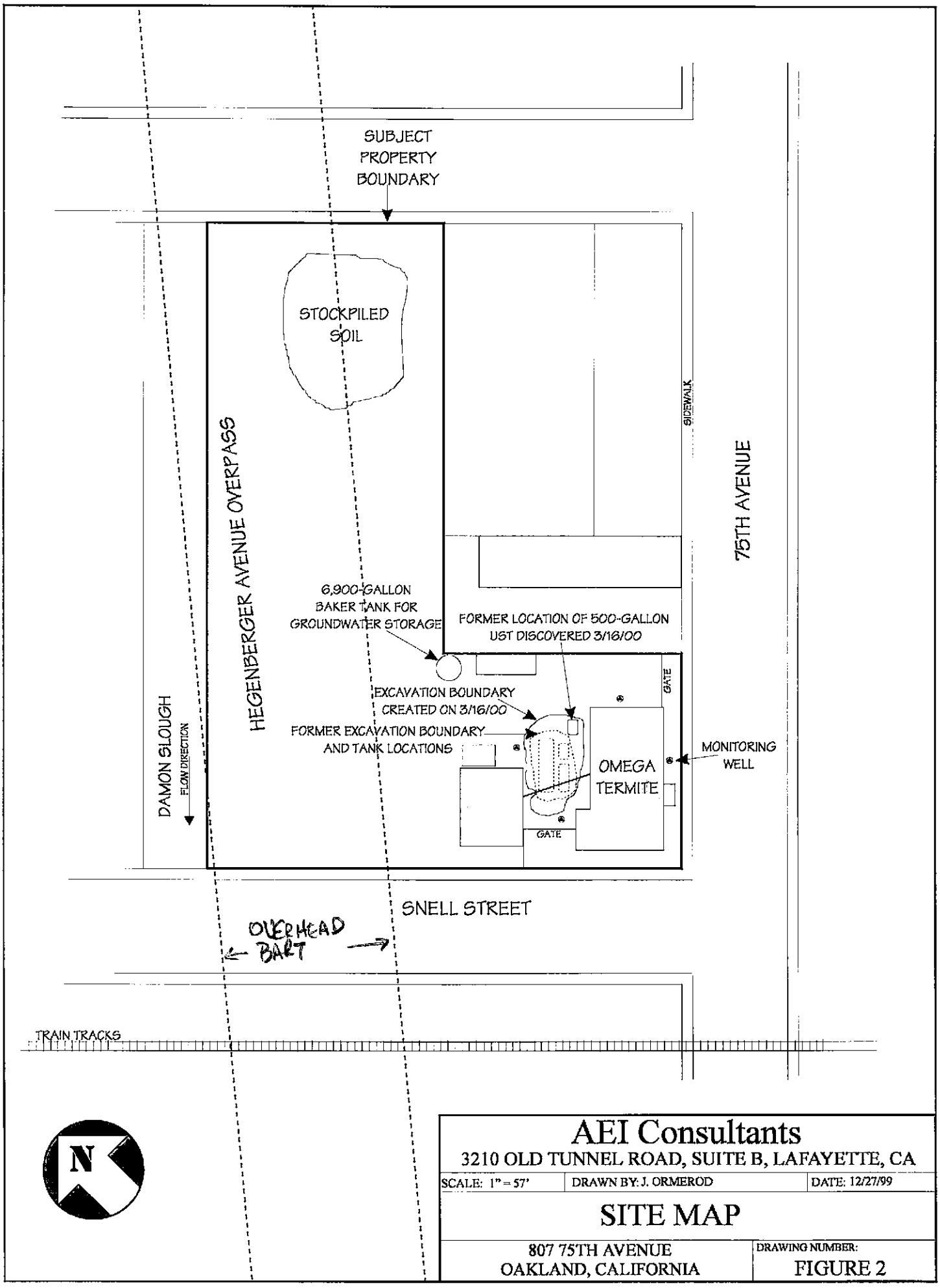
AEI Consultants

3210 OLD TUNNEL ROAD, SUITE B, LAFAYETTE, CA

SCALE: 1"=2400'		DATE: 1997

SITE LOCATION MAP

807 75TH AVENUE OAKLAND, CALIFORNIA	DRAWING NUMBER: FIGURE 1



AEI Consultants

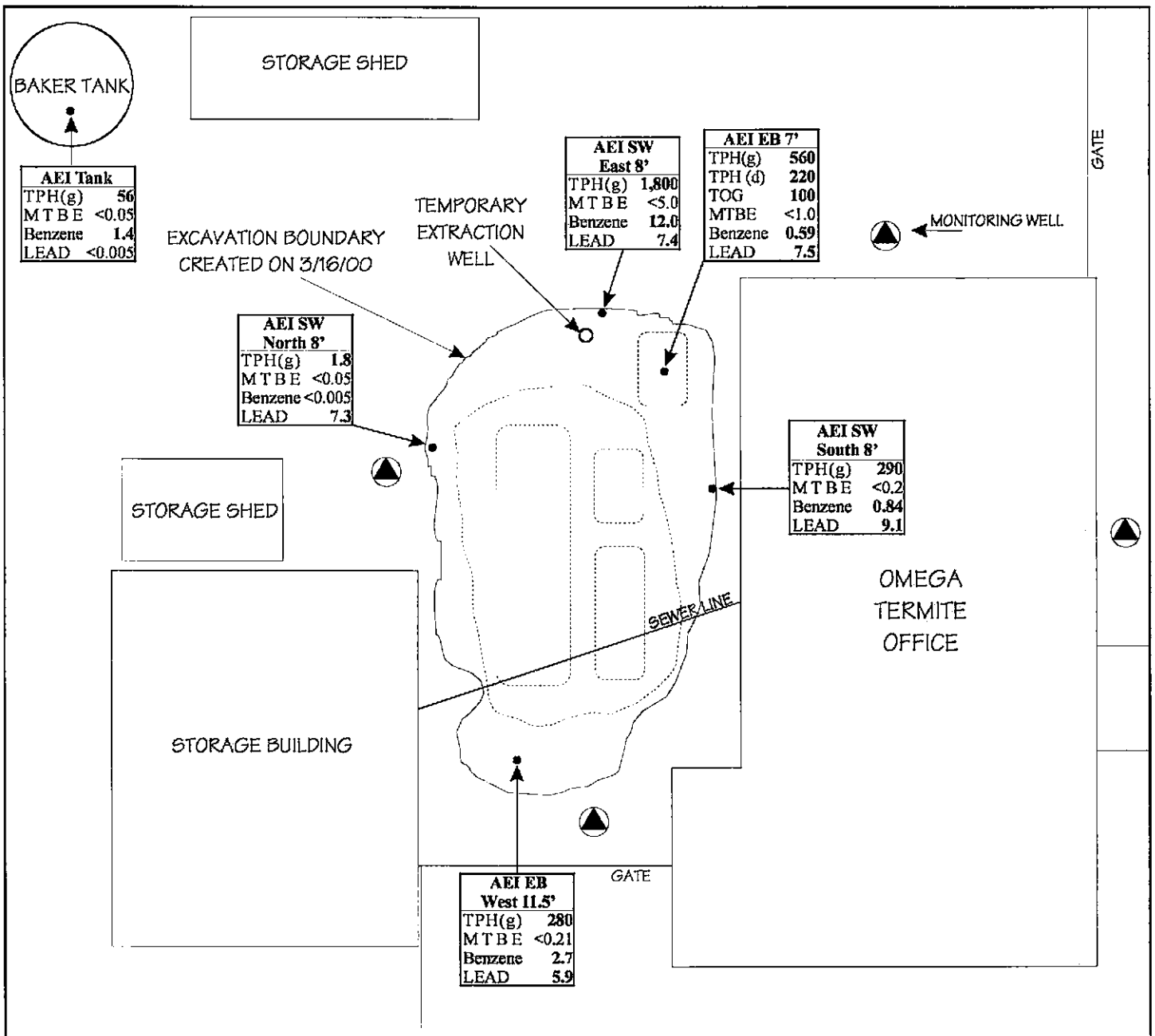
3210 OLD TUNNEL ROAD, SUITE B, LAFAYETTE, CA

SCALE: 1" = 57'	DRAWN BY: J. ORMEROD	DATE: 12/27/99

SITE MAP

807 75TH AVENUE
OAKLAND, CALIFORNIA

DRAWING NUMBER:
FIGURE 2



KEY

- SOIL SAMPLE LOCATION

TPH(g) TOTAL PETROLEUM HYDROCARBON AS GASOLINE
TPH(d) TOTAL PETROLEUM HYDROCARBON AS DIESEL
TOG TOTAL OIL AND GREASE
MTBE METHYL TERTIARY BUTYL ETHER
LEAD TOTAL LEAD
SOIL SAMPLE RESULTS IN mg/kg
WATER SAMPLE RESULTS IN µg/kg

N

AEI Consultants

3210 OLD TUNNEL ROAD, SUITE B, LAFAYETTE, CA

SCALE: NOT TO SCALE | DRAWN BY: J. ORMEROD | DATE: 8/2/00

SAMPLE LOCATION MAP

807 75TH AVENUE
OAKLAND, CALIFORNIA

DRAWING NUMBER:
FIGURE 3

APPENDIX A

PERMITS AND NOTIFICATION DOCUMENTS

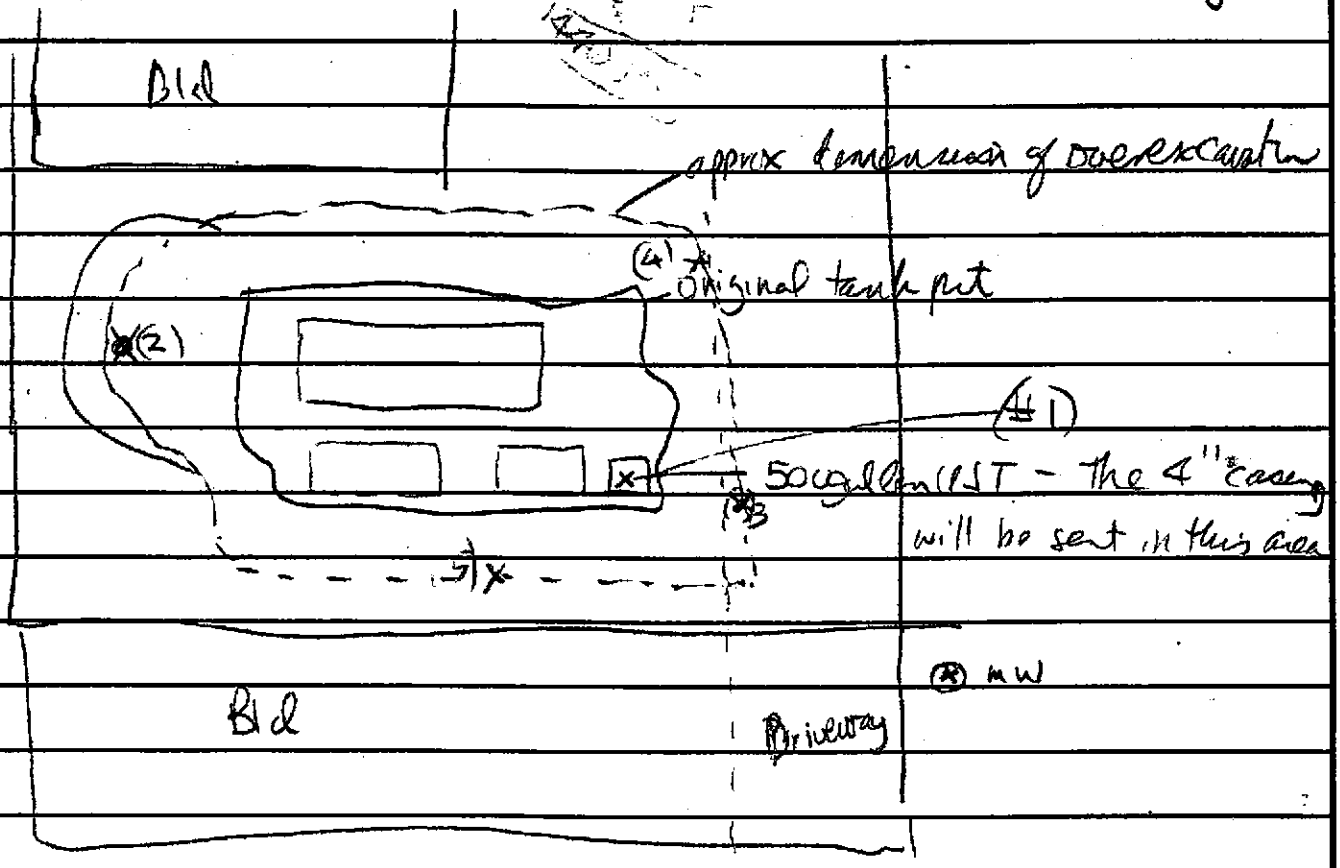
ALAMEDA COUNTY ENVIRONMENTAL HEALTH / HAZARDOUS MATERIALS DIVISION
1131 HARBOR BAY PKWY., RM. 250, ALAMEDA, CA 94502-6577 (510)567-6700 FAX (510) 337-9355

HAZARDOUS WASTE GENERATOR INSPECTION REPORT

STID #: 1650 | FACILITY NAME: Omega Termite 887-75th Ave 94621 | PG. 1 OF 2

SUPPLEMENTAL FORM

Present to witness overexcavation of former tank pit, removal of 1-500 gallon UST - & confirmation sampling



75th Ave

L. Griffin OFD okayed the removal of the UST - to be disposed as haz waste ASAP (UST ~ 3'x8' - rusted steel w/ numerous holes)

(x1) one spl taken beneath 500 gal UST ~ 6' - blue-gray gravelly clay moderate gas odor.

~1K gal H2O removed to AG-T. Additional saturated soils were removed from the bottom of pit.

PRINT NAME: John Cameron	INSPECTED BY: B. CHAN
SIGNATURE:	DATE: 3-16-00

GEN/SUPP RPT REV. 7/94) JNS /BCO

ALAMEDA COUNTY ENVIRONMENTAL HEALTH / HAZARDOUS MATERIALS DIVISION

1131 HARBOR BAY PKWY., RM. 250, ALAMEDA, CA 94502-6577 (510)567-6700 FAX (510) 337-9355

HAZARDOUS WASTE GENERATOR INSPECTION REPORT

STID #: 1650	FACILITY NAME: Omega Termite	PG. 2 OF 2

SUPPLEMENTAL FORM

~7 - 55gal drums of cuttings or water in rear of site - needs to be properly disposed. Also to extreme rear of site are many ~1gal cans of "paint" supplies + 55gal drum this material S/B stored in a fire resistant shed.

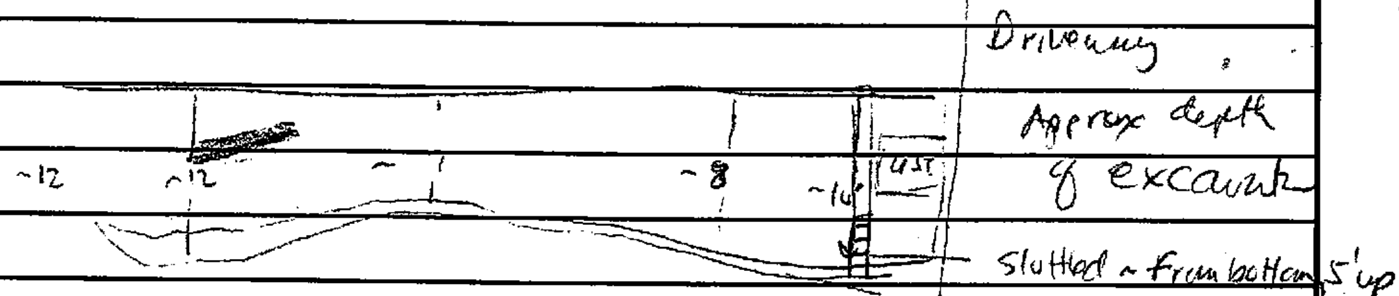
Run all samples for TPHg, BTEX + MTBE - in addition pls run the sample from beneath the 500 gal UST for TPHd + TPHmo.

Sple (2) ~ 11½-12' - moist gravel - silt - mod gas odor

Sple (3) ~ 8' east sidewall - black gravel/cl - slight gas odor

Sple (4) ~6' north sidewall - black silt - no gas odor

Sple (5) - 7' south sidewall - black gravel/silt - v. little odor



PRINT NAME: [illegible]	INSPECTED BY: B. CHAN
SIGNATURE: [signature]	DATE: 3-16-00

GEN/SUPP RPT(REV. 7/96) JNS/ECD

City Of Oakland

FIRE PREVENTION BUREAU

250 Frank Ogawa Plaza, Ste. 3341
Oakland California 94612-2032
510-238-3851

Permit To Excavate And Install, Repair, Or Remove Inflammable Liquid Tanks

Oakland, California April 4, 2000

Tank Permit Number: 17-00

Permission Is Hereby Granted To:

Remove gasoline **Tank And Excavate Commencing:** **Feet Inside:** property **Line.**

On The: north side of 75th Ave., 50 feet east of Snell St.

Site Address: 807 75th Ave. **Present Storage:**

Owner: Allen Kanady **Address:** 807 75th Ave., Oakland, 94621 **Phone:** 562-1333

Applicant: All Environmental **Address:** 3210 Old Tunnel Rd., Ste., B Lafayette 94549 **Phone:** (925) 283-6000

Dimensions Of Street (sidewalk) Surface To Be Disturbed : **X** **No. Of Tanks** 1 **Capacity** 5000 **Gallons, Each**

Remarks

This Permit Is Granted In Accordance With Existing City Ordinances. Owner Hereby Agrees To Remove Tanks On Discontinuance Of Use Or When Notified By The City Authorities When Installing, Removing Or Repairing Tanks, No Open Flame To Be On Or Near Premises.

CERTIFICATE OF TANK AND EQUIPMENT INSPECTION

Type Of Inspection:

Inspected And Passed On:

By:

Approved: *Gerald A. Simon, Chief*
Fire Marshal

UST/AST Installations/modifications:

Pressure Test: Inspected By: **Date:**

Primary Piping Test: Inspected By: **Date:**

Inspection Fee Paid: $ 540.00

Received By: D. Clemons ck#1263 rec#802559

Secondary Containment & Sump Testing:

Inspected By: **Date:**

Final: Inspected By: **Date:**

***Before Covering Tanks, Above Certification Must Be Signed** When Ready For Inspection Notify Fire Prevention Bureau 238-3851*

THIS PERMIT MUST BE LEFT ON THE WORK SITE AS AUTHORITY THEREFORE

Distribution: White - Fire Prevention Bureau, Yellow - Contractor, Pink - Electrical Inspection

OAKLAND FIRE SERVICES AGENCY/OFFICE OF EMERGENCY SERVICES
HAZARDOUS MATERIALS UNIT

1605 Martin Luther King Jr. Way, Oakland, CA 94612 • (510) 238-3938

HAZARDOUS MATERIALS INSPECTION REPORT

Site Number	Facility Name	Facility Address	Zip Code
	OMEGA PEST	807 75th AVE	

Inspection Report

☐ **PERMISSION TO INSPECT GRANTED**

E/R TANK REMOVAL.

500 gal STEEL SINGLE WALL UST.
TANK IS IN VERY POOR condition
holes at each end

0/LEL O2/

Contractor will initiate proper permits for disposal of TANK.

Clean-up is under the oversight of ALCO HAZMAT.

Facility Contact/Print Name:	Inspected By:		
	☒	Insp. Griffin	238-7759
	☐	Insp. Matthews	238-2396
Facility Contact/Signature:	☐	Insp. Craford	238-7758
[signature]	☐	Insp. Gomez	238-7253
	Date:		

EAST BAY
MUNICIPAL UTILITY DISTRICT

DAVID R. WILLIAMS
DIRECTOR OF WASTEWATER

CERTIFIED MAIL
(Return Receipt Requested)
Certified Mail No. Z 245 396 027

February 11, 2000

Mr. Allen Kanady
807 75th Avenue
Oakland, CA 94621

Dear Mr. Kanady:

Re: Wastewater Discharge Permit Number 5043690 1

Enclosed is the Wastewater Discharge Permit for Omega Termite groundwater discharge site located at 807 75th Avenue, Oakland effective February 7, 2000 through February 6, 2001. Please read the Terms and Conditions and Standard Provisions and Reporting Requirements attached to the permit. As a permit holder, you are legally responsible for complying with all permit conditions and requirements.

Omega Termite shall report to the EBMUD Source Control Division any changes, permanent or temporary, to the premises or operations that significantly affect the quality or volume of wastewater discharge or deviate from the Terms and Conditions under which the permit was granted.

If you have any questions regarding this Permit, please contact Marie Kulka of the Source Control Division at (510) 287-1632

Sincerely,

JOSEPH G. DAMAS, JR.
Manager of Source Control

JGD:MAK:mcw

W:\IDS\Permits\Groundwater\Omega Termite\Omega Permit.doc

Enclosures

Cc: Mr. John Ormerod, AEI Consultants, 3210 Tunnel Road, Suite B, Lafayette, CA 94549-415

P.O. BOX 24055 . OAKLAND . CA 94623-1055 . (510) 287-1405

EBMUD

WASTEWATER DISCHARGE PERMIT
Terms and Conditions
APPLICANT INFORMATION

PERMIT NUMBER 5043690 1

APPLICANT BUSINESS NAME Omega Termite

PERSON TO BE CONTACTED IN EVENT OF EMERGENCY

Allen Kanady
Name

(510) 562-1333
Day Phone

Night Phone

(510) 568-2902
Fax Number

ADDRESS OF PREMISES DISCHARGING WASTEWATER

807 75th Avenue
Street Address

Oakland
City

94621
Zip Code

PERSON TO BE CONTACTED ABOUT THIS APPLICATION

John Ormerod
Name

Environmental Scientist
Title

(925) 283-6000
Day Phone

(925) 283-6121
Fax Number

FACILITY MAILING ADDRESS

3210 Tunnel Road, Suite B
Street Address

Lafayette
City

94549-415
Zip Code

Electronic Mail Address (E-Mail)

CHIEF EXECUTIVE OFFICER/DULY AUTHORIZED REPRESENTATIVE

Allen Kanady
Name (printed)

owner
Title

807 75th Avenue
Street Address

Oakland
City

94621
Zip Code

CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that the qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

(Allen Kanady)

Signature (see certification requirements on reverse)

~~12/27/99~~ 1/20/00
Date

Revised 6/26/97

WASTEWATER DISCHARGE PERMIT
Terms and Conditions
PROCESS DESCRIPTION

EBMUD

FACILITY NAME Omega Termite

PURPOSE - The **Process Description** is intended to provide a description of the primary business activities and the substances which may enter into the wastewater from the business activity.

Permit Number: 50436901

BUSINESS ACTIVITY Pest Elimination
Subject property has an open hole filled with rain and groundwater + water plans to be removed

Standard Industrial Classification:

Business Classification Code: 4950

DESCRIPTION OF PRODUCT in order to remove contaminated soil

TYPE OF PRODUCT OR BRAND NAME	QUANTITIES - INDICATE UNITS: Past Year __/__ to __/__ (Mo. Year Mo. Year)	Estimated This Year __/__ to __/__ (Mo. Year Mo. Year)
Groundwater		

PROCESS DESCRIPTION

Process Description (List all wastewater generating operations)	Characteristics (List all substances that may be discharged to the sewer)	Process Number (From Schematic)
Underground storage tanks were removed in 1997. Excavation has remained open and has filled with groundwater and rainwater	Groundwater containing Soil 53 mg/L of lead	

PRETREATMENT FACILITIES

Pretreatment: Check the type of treatment, if any, given wastewater before it is discharged to the community sewer:

☐ None ☐ holding tank ☐ grease trap ☐ oil and water separator ☐ grinding ☒ sedimentation ☐ pH adjustment
☐ biological treatment ☒ screening ☐ chlorination ☐ other (describe) _____

Description: Describe the loading rates, design capacity, physical size, etc. of each pretreatment facility checked above. Identify the side sewer to which treated wastewater is discharged.

Groundwater will be pumped into 25 yard filter box. Water will pass through a 160 micron filter to remove sediment. Then water will be released to the side sewer at 20 gallons per minute. Side sewer is located to the north of subject property building (See map).

OTHER WASTES: List the type and volume of liquid waste and sludge removed from the premises by means other than the community sewer.

Facility EPA Generator I.D. Number N/A

Waste removed by (Name, address, State Transporter I.D. No.)	Type of Waste (Example: Alkaline cleaners, Organic solvents)	EPA Waste No.	State Waste No.	Quantity generated (lbs. or gal. /month)

Revised 6/26/97

ACTIVITY: REMOVAL OF GROUNDWATER FROM EXCAVATION

Omega Termite
Permit Number: 5043690 1

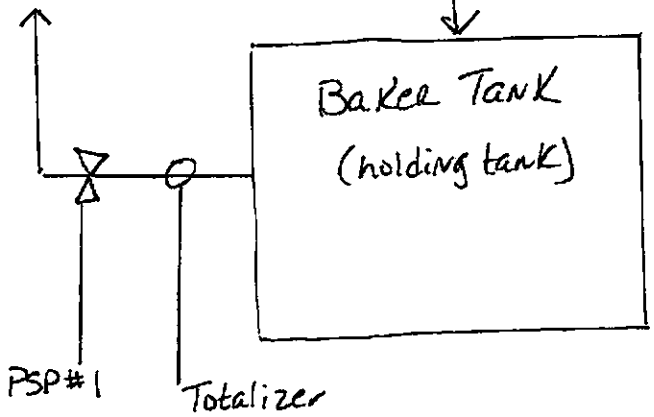
OFF-HAUL OF SEDIMENT
AND USED FILTER
▲

STEP 1
PUMPING OF GROUNDWATER
FROM THE HOLE IN THE GROUND
INTO 25 CUBIC YARD FILTER BOX

→

STEP 2
GROUNDWATER PASSES
THROUGH 100 MICRON FILTER
BEFORE BEING RELEASED INTO
THE SANITARY SEWER

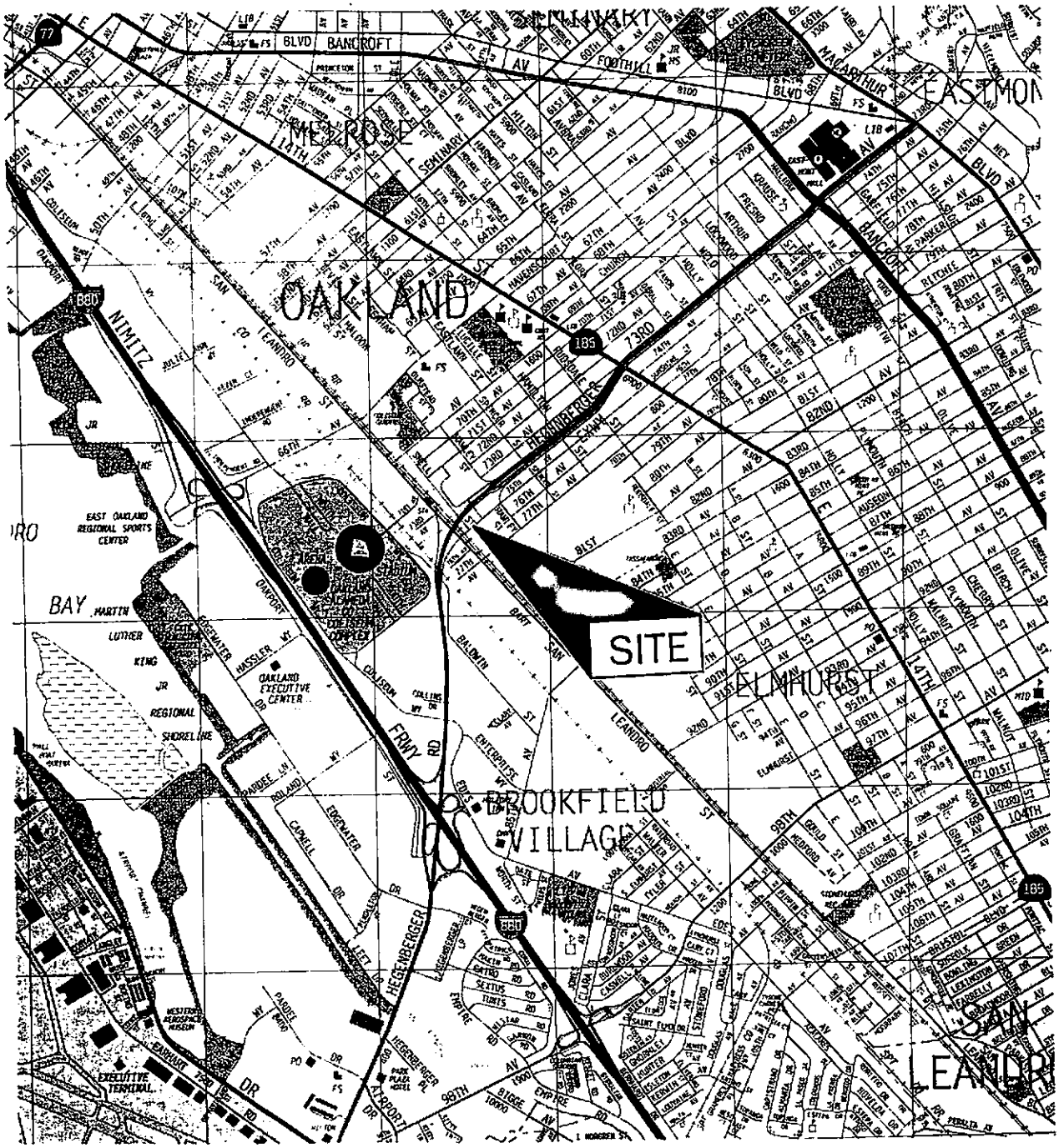
STEP
GROUNDWATER IS RELEASED
INTO THE SIDE SEWER IN
A ONE TIME RELEASE



AEI Consultants
3210 OLD TUNNEL ROAD, SUITE B, LAFAYETTE, CA

SCHEMATIC FLOW DIAGRAM

807 75TH AVENUE
OAKLAND, CALIFORNIA



Omega Termite
Permite Number : 5043690 1

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FROM:
THE THOMAS GUIDE
1997 EDITION

AEI Consultants

3210 OLD TUNNEL ROAD, SUITE B, LAFAYETTE, CA

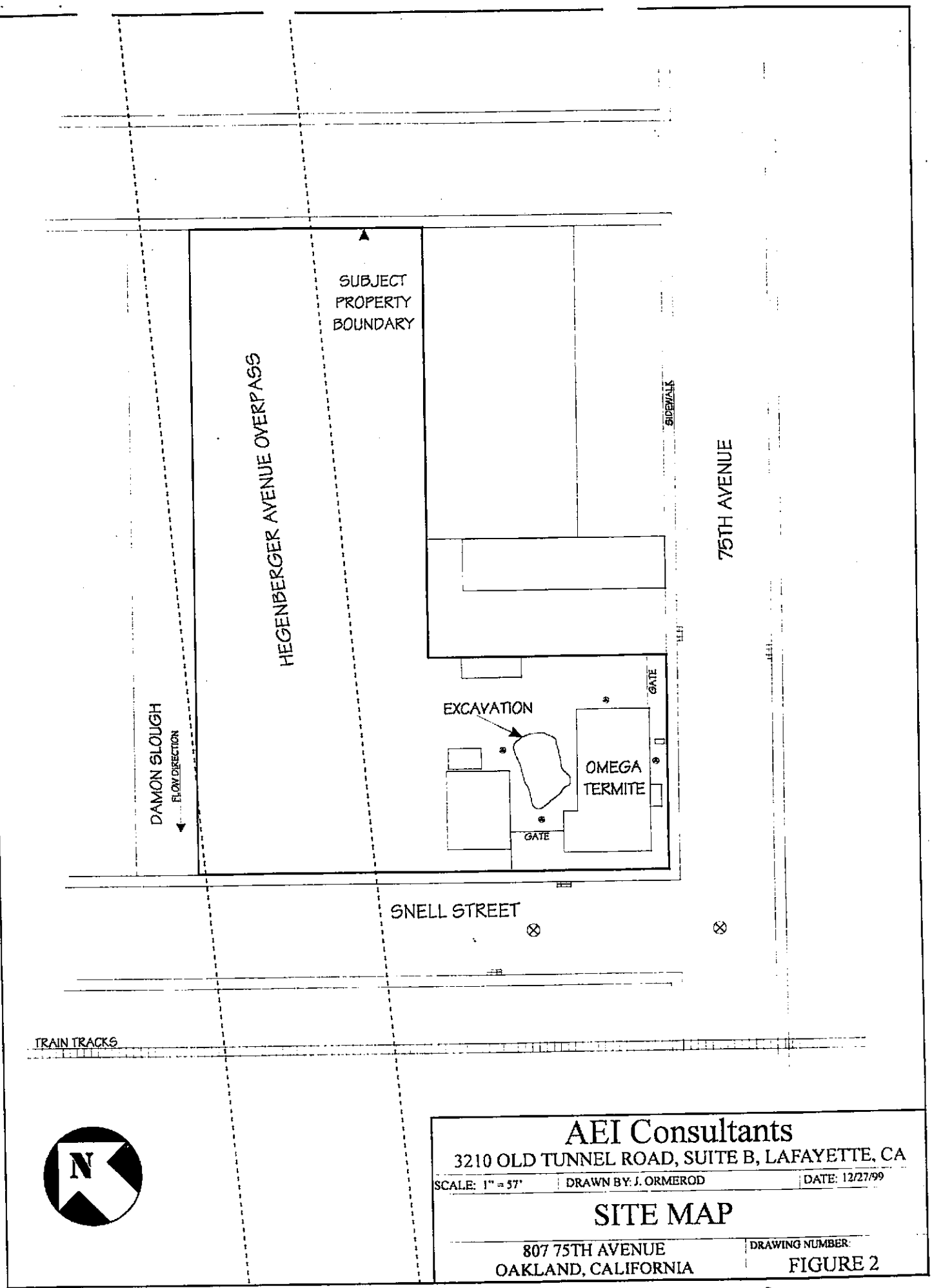
SCALE: 1"=2400'

DATE 1997

SITE LOCATION MAP

807 75TH AVENUE
OAKLAND, CALIFORNIA

DRAWING NUMBER
FIGURE 1



AEI Consultants

3210 OLD TUNNEL ROAD, SUITE B, LAFAYETTE, CA

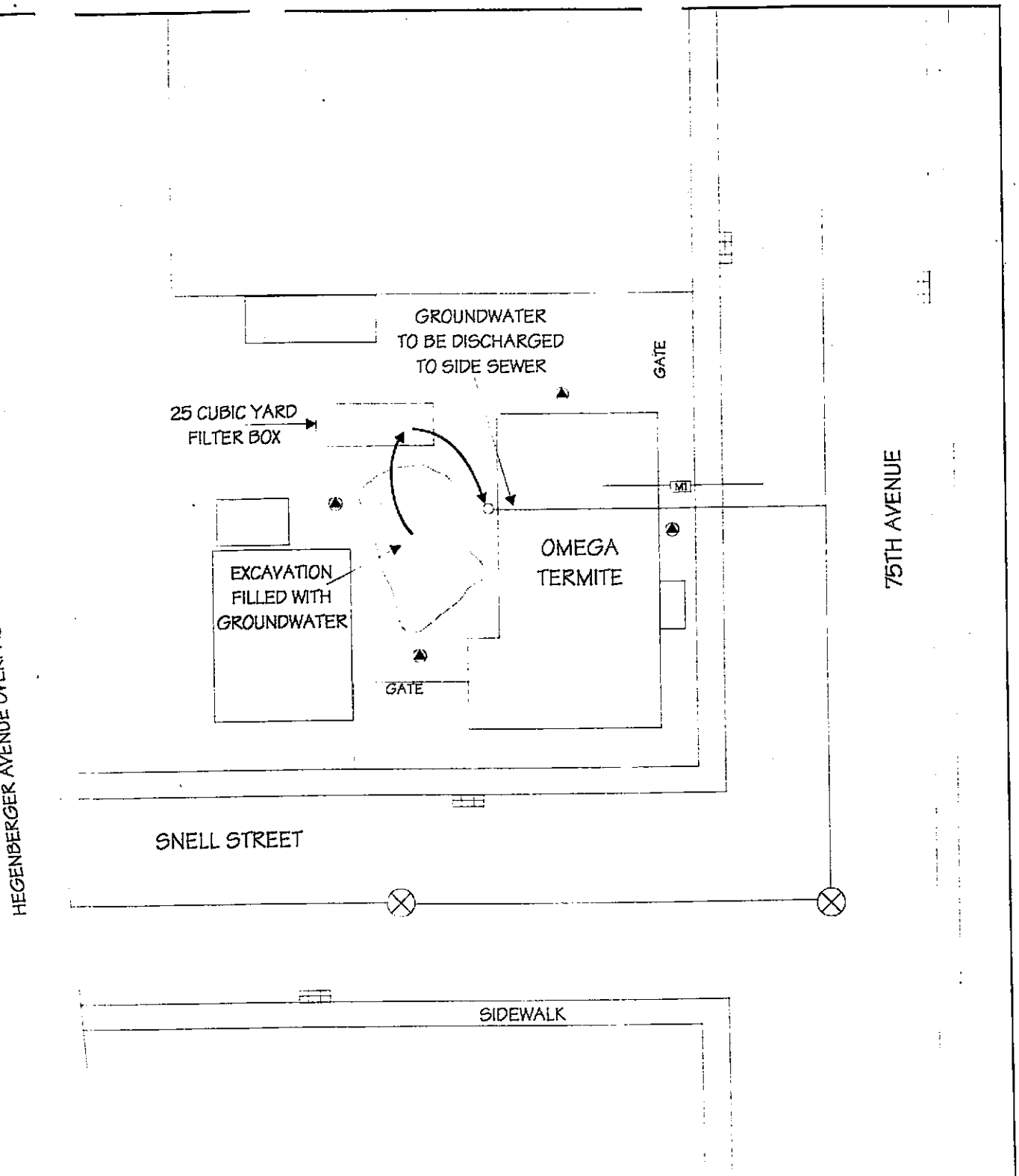
SCALE: 1" = 57' | DRAWN BY: J. ORMEROD | DATE: 12/27/99

SITE MAP

807 75TH AVENUE
OAKLAND, CALIFORNIA

DRAWING NUMBER:
FIGURE 2

Omega Termite - Permit# 5043690



KEY

- MONITORING WELL
- MANHOLE
- STORM DRAIN
- MI WATER METER

N

AEI Consultants

3210 OLD TUNNEL ROAD, SUITE B, LAFAYETTE, CA

SCALE: NOT TO SCALE DRAWN BY: J. ORMEROD DATE: 12/27/99

SAMPLE LOCATION MAP

807 75TH AVENUE
OAKLAND, CALIFORNIA

DRAWING NUMBER
FIGURE 3

Omega Termite - Permit # 5043690 1

WASTEWATER DISCHARGE PERMIT
Terms and Conditions
WATER SOURCE AND USE

EBMUD

FACILITY NAME Omega Termite

PURPOSE: This information will enable EBMUD to evaluate the volumes and source(s) of wastewater discharged to the community sewer.

Permit Number 5043690 1

Water Use and Disposition Estimate the average quantity of water received and wastewater discharged daily.
NOTE: Show on a separate sheet the METHOD AND CALCULATIONS used to determine the quantities shown on the table.

	Supply From			Discharged To		
	EBMUD	Other (1)		Community Sewer	Other (2)	
WATER USED FOR:	gal/day	gal/day	code	gal/day	gal/day	code
SANITARY						
PROCESSES						
BOILER						
COOLING						
WASHING						
IRRIGATION						
OTHER (3)		7,000		7,000		
TOTAL		7,000		7,000		

Notes:
(1) Enter the quantity and the appropriate code letter indicating the source:
a. well b. creek c. estuary d. bay e. stormwater f. reclaimed water
(2) Enter the quantity and the appropriate code letter indicating the discharge point:
a. well b. creek c. estuary d. bay e. stormdrain f. rail, truck, barge g. evaporation h. product
(3) Describe: groundwater extracted from the site.

Total Number of Employees Total 4

	Office		Production (number of employees per shift)					
			Day Shift		Swing shift		Night shift	
	No.	Hours	No.	Hours	No.	Hours	No.	Hours
Weekday	3	8am to 5pm		to		to		to
Saturday	—	to		to		to		to
Sunday	—	to		to		to		to

Source of Wastewater Discharged

Water Meter Number	Use Code (see reverse)	Percent (%) discharged to: Side Sewer No. 1	No. 2	No. 3	No. 4	No. 5	No. 6	No. 7	No. 8	No. 9	Total % Disch. to all side sewers
*/	I	0									
*/	S	100									

Revised 6/26/97

WASTEWATER DISCHARGE PERMIT
Terms and Conditions
STRENGTH SUMMARY

EBMUD

FACILITY NAME Omega Termite

PURPOSE: This information will identify for EBMUD the variation in flow rate and the type of constituents and characteristics of the discharge for each side sewer.

Permit Number 50436901

Side Sewer No. #1 Side Sewer Location North of subject property building

Wastewater Flow Rate

Peak Hourly (gallons/minute)	Maximum Daily (gallons/day)	Annual Daily Average (gallons/day)	Max. Monthly (CCF *)
20/minute	7000/day ↳ for one time release only	7000/day	7000 gallons

* CCF = hundred cubic feet = 748 gallons

Discharge Frequency

Discharge Period

☐ Continuous ☐ 24 hrs./day

☐ 365 day/year; or

a. Time of day from 8am to 5pm

b. Days of the week one day

one time discharge only

Batch Discharge(s)

a. Day(s) of the week 1 b. Time(s) of the day 8am - 5pm

c. Volume discharged 7,000 gallons d. Rate of Discharge 20 gallons/minute

Stormwater Area - Total area in square feet exposed to stormwater, rainwater, and groundwater and draining to this side sewer 0 sq. ft.

Wastewater Strength Estimates - Enter the average annual and maximum wastewater strength for this side sewer for each of the following elements of wastewater strength for the period covered by the Permit. These values will become the basis for sewage disposal charges and are the average and maximum limits on the elements of the discharger's wastewater strength.

Elements of Wastewater Strength	Unit	Average	Maximum
Total Suspended Solids (TSS)	mg/L	2	
Filtered Chemical Oxygen Demand (CODF)	mg/L	15	

Provide the name and address of the laboratory and the State of California, Department of Health Services, Environmental Laboratory Accreditation Program Certificate Number of the laboratory performing self-monitoring analyses.

Name M. Campbell Analytical Inc Telephone (925) 798-1620

Street 110 Second Ave South #D7 City Pacheco State CA Zip 94553

Certificate Number 1044

EBMUD

GENERAL CONDITIONS

I. Title I, Section 5 of EBMUD Ordinance No. 311 prohibits the discharge of groundwater to the community sewer. This Permit to discharge treated groundwater is considered a waiver of the prohibition and is issued based on Omega Termite's application that discharge of pollutants to the community sewer will be minimized and methods to reclaim the groundwater, to the extent technically and economically feasible, have been made.

II. This Wastewater Discharge Permit is granted to Omega Termite's to discharge treated groundwater to the side sewer only from the facility located at 807 75th Avenue, Oakland.

III. Omega Termite shall cease discharge of the treated groundwater immediately if not in compliance with any of the Terms and Conditions of this Permit.

IV. Omega Termite shall comply with all items of the attached STANDARD PROVISIONS AND REPORTING REQUIREMENTS, 07/96 Revision (SPARR).

COMPLIANCE REQUIREMENTS

I. Omega Termite shall pretreat all groundwater prior to discharging to the side sewer at 807 75th Avenue, Oakland. Pretreatment shall consist of processes displayed in the *Schematic Flow Diagram.*

II. Omega Termite shall maintain records of operation and maintenance activities on the groundwater pretreatment system. The records shall include, but not be limited to, flow meter readings from flow totalizer at a maximum of monthly intervals, maintenance activities performed, description of operational changes, visual observations of the unit for leaks or fouling and offhaul of hazardous wastes. The records shall be available to the District staff upon request.

WASTEWATER DISCHARGE LIMITATIONS

Omega Termite shall not discharge wastewater from a side sewer into a community sewer if the strength of the wastewater exceeds the following limits:

REGULATED PARAMETER	DAILY MAXIMUM	
Lead	0.033	mg/L
Benzene	0.005	mg/L
Ethylbenzene	0.005	mg/L
Toluene	0.005	mg/L
Xylenes, total	0.005	mg/L

REPORTING REQUIREMENTS

I. Violations shall be reported in accordance with Section B of SPARR.

II. Omega Termite shall submit a technical report that shall contain the following information, at a minimum:

1. Self-monitoring reports prepared in accordance with the "Self-Monitoring Reporting Requirements" of this Permit.
2. Monthly readings from flow totalizer of the pretreatment system effluent.
3. Volume of groundwater pumped and treated during the reporting period, and a total to date.
4. Description of any operational changes occurring during the reporting period.
5. Certification and signature prepared in accordance with Section B Part V of SPARR, "Signature Requirements".

III. Omega Termite shall notify EBMUD, Wastewater Control Inspection Unit, at (510)287-1632 or 287-1608 at minimum 24 hours prior to discharge of the treated groundwater.

Omega Termite
Permit No. 5043690 1

SELF-MONITORING REPORTING REQUIREMENTS

I. Omega Termite shall monitor and sample the wastewater discharge into the community sewer in accordance with Section C of SPARR. The sampling shall be performed at the locations and frequency for the parameters specified below.

II. Self-monitoring reports shall contain all laboratory results and the corresponding chain of custody documentation, and signatory requirements.

III. A sample representative of the discharge from the pretreatment system to the sanitary sewer is taken on the effluent side of the baker tank. It shall be referred to as Process Sampling Point #1 (PSP#1) in all technical reports. The sample location is indicated *Schematic Flow Diagram.*

IV. A compliance sample shall be collected from PSP#1 upon each discharge from the baker tank to the sanitary sewer.

V. A compliance screening sample shall be collected from the baker tank for a prior to discharge. The laboratory result shall be sent to EBMUD within 48 hours prior to the planned discharge.

VI. The following parameters shall be sampled at a minimum of once during each discharge or a compliance screening event.

Parameter	Sample Type	EPA Method
Lead	grab	200.7
Benzene	grab	624
Toluene	grab	624
Ethylbenzene	grab	624
Xylenes	grab	624

WASTEWATER DISCHARGE PERMIT
Terms and Conditions

MONITORING and TESTING CHARGES

EBMUD Inspections Per Year:	1	@ $540.00 each =	$540.00 / year

Analyses Per Year:

Parameter	Tests per year	Charge per test	Total Charge per year
EPA 624	1	$179.00	$179.00
Metals	1	$128.00	$128.00

Total Monitoring and Testing Charge = $847.00 / year

WASTEWATER DISPOSAL CHARGE

All wastewater discharged will be charged for treatment and disposal service at the unit rate measured for other carbon treated groundwater discharges. (1 Ccf = 100 cubic feet = 748 gallons)

Unit rate =	0.42 /Ccf	
Discharge volume =	9.4 Ccf/month or	$3.95 /month

WASTEWATER CAPACITY FEE

The capacity fee is calculated by multiplying the monthly wastewater discharge volume by the applicable fee in effect at start-up and is prorated over a 36 month period. Capacity fees for Omega Termite will be prorated at 1/36^{ths} of the total capacity fee charged, based on the anticipated discharge durationof one month.

Discharge volume =	9.4 Ccf/month	
Capacity fee rate =	$48.76 /Ccf-month	
Capacity fee =	$458.34	$12.73 /year

EBMUD

WASTEWATER DISCHARGE PERMIT
Terms and Conditions

FEES AND WASTEWATER CHARGES

The following fees and charges are due when billed by the District:

Permit Fee:	$2,490.00	PAID
Monitoring Charge:	$70.58	
Monthly Wastewater Disposal Charge	$3.95	
Wastewater Capacity Fee	$1.06	
Total Charges =	**$75.59**	/mth

This Permit may be amended to include changes to rates and charges which may be established by the District during the term of this Permit.

Charges listed in this Permit will be assessed on EBMUD bills in accordance with the EBMUD Meter Reading Schedule.

The District may change the terms and conditions of a Wastewater Discharge Permit, including changing the average limits on the elements of wastewater strength and rates and charges, from time to time as circumstances may require. The District shall allow a discharger reasonable time to comply with any District required changes in the permit except that a change in average limits of wastewater strength shall immediately affect calculation of the wastewater disposal charge.

Charges listed in this Permit will be assessed on EBMUD bills in accordance with the EBMUD Meter Reading Schedule.

AVERAGE WASTEWATER DISCHARGE *

Last 12 Months
0
Preceding 12-24 Months
0

* gallons per day

Effective: 2/11/00

Expiration: 2/10/01

Authorization

Permit Holder shall report to EBMUD, Wastewater Department any changes, permanent or temporary, to the premises or operations that significantly change the quality or volume of the wastewater discharge or deviation from the terms and conditions under which this permit is granted.

Permit Holder is hereby authorized to discharge wastewater to the community sewer, subject to said Applicant's compliance with EBMUD Wastewater Control Ordinance No. 311 and permit compliance conditions, reporting requirements and billing conditions.

David R Williams
Director, Wastewater Department

2/10/00
Date

APPENDIX B

SITE HEALTH & SAFETY PLAN

AEI CONSULTANTS
3210 Old Tunnel Road, Suite B, Lafayette, CA 94549-4157
Phone: (925) 283-6000 Fax: (925) 283-6121

HEALTH AND SAFETY PLAN

Prepared for:

UST Removal
at
807 75th Avenue
Oakland, California

A. INTRODUCTION

This Site Specific Health and Safety Plan is written for the UST Removal project located at 807 75th Avenue in Oakland, California. All job site personnel will follow CAL OSHA safe operating practices as outlined in 29 CFR 1910 and 1926, as well as established guidelines set forth by AEI Consultants or their respective companies.

B. WORK DESCRIPTION

Prepared by: John Ormerod

Site Manager: Dusty Roy

Address: 807 75th Avenue
Oakland, California

Scope of Work: AEI Consultants (AEI) will remove (1) 500-gallon gasoline underground storage tank located at the above address. The tank will be emptied, removed, and disposed of according to federal, state and local regulations. 1 soil sample(s) will be taken from the native material beneath each tank. One composite sample will be made from 4 discrete soil samples from the excavated material.

C. SITE/WASTE CHARACTERISTICS

Hazard Level:	Serious:	Low: XXX
	Moderate: XXX	Unknown:

Waste Type:	Solid:	Underground Storage Tank
	Sludge:	None
	Liquid:	Remaining Product Inside Tank
	Gas:	None

Hazard Characteristics: Combustible, Toxic

There will be a three feet boundary surrounding the excavation pit and the stockpiled material. The area within this boundary is considered an exclusion zone and only qualified personnel will be allowed to enter. All personnel arriving or departing the site should log in before entering the exclusion zone. All activities on site must be cleared through the Site Manager.

D. HAZARD EVALUATION

Potential chemical hazards include skin and eye contact or inhalation exposure to potentially toxic concentrations of hydrocarbon vapors. The potential toxic compounds that may exist at the site are listed below with descriptions of specific health effects of each. The list includes the primary potential toxic constituents that may be found at sites which previously handled petroleum hydrocarbons, including home heating diesel fuel.

1. Benzene
   a. Colorless to light yellow, flammable liquid with an aromatic odor.
   b. Toxic hazard by **inhalation**, **adsorption**, **ingestion** and **skin and/or eye contact**.
   c. Exposure may irritate eyes, nose and respiratory system and may cause acute restlessness, convulsions, nausea, or depression. Benzene is carcinogenic.*
   d. Permissible exposure level (PEL) for a time weighted average (TWA) over an eight hour period is 1.0 ppm.

2. Toluene
   a. Colorless liquid with a sweet, pungent, benzene like odor.
   b. Toxic hazard by **inhalation**, **adsorption**, **ingestion** and **skin and/or eye contact**.
   c. Exposure may cause fatigue, weakness, confusion, euphoria, dizziness, headaches, dilated pupils, lacrimation, nervousness, insomnia, paresthesia, and dermatitis.
   d. Permissible exposure level for a time weighted average over an eight hour period is 100 ppm.

3. Xylene
   a. Colorless liquid with an aromatic odor.
   b. Toxic hazard by **inhalation**, **adsorption**, **ingestion** and **skin and/or eye contact**.
   c. Exposure may irritate eyes nose and throat and may cause dizziness, excitement, drowsiness, incoordination, corneal vacuolization, anorexia, nausea, vomiting, and dermatitis.
   d. Permissible exposure level for a time weighted average over an eight hour period is 100 ppm.

4. Ethylbenzene
   a. Colorless liquid with an aromatic odor.
   b. Toxic hazard by **inhalation**, **ingestion**, and **skin and/or eye contact**. Ethylbenzene is carcinogenic.*
   c. Exposure may irritate eyes and mucous membrane and may cause headaches, dermatitis, narcosis and loss of consci ousness.
   d. Permissible exposure level for a time weighted average over an eight hour period is 100 ppm.

*** Known to the State of California to cause cancer.**

5. Lead
   a. A heavy ductile soft grey metal.
   b. Toxic hazard by **inhalation, ingestion**, and **skin and/or eye contact**.
   c. Exposure may cause weakness, nausea, lassitude, diarrhea, insomnia, anorexia, inflamed mucous membranes and abdominal pains. Lead is carcinogenic.*
   d. Permissible exposure level for a time weighted average over an eight hour period is .05 ppb (in vapor).

6. Diesel
   a. Colorless to dark brown, combustible liquid with an aromatic odor
   b. Toxic hazard by **inhalation, ingestion, skin and/or eye contact**.
   c. Inhalation of vapors may depress the central nervous system, increasing reaction times, and decreasing pulse rate and blood pressure. Skin irritant.
   d. Occupational exposure limit 5.0 ppm (in vapor).

7. Gasoline
   a. Colorless liquid with a strong aromatic odor. Highly volatile and extremely flammable.
   b. Toxic hazard by **inhalation, adsorption, ingestion** and **skin and/or eye contact**.
   c. Inhalation of vapors can cause depression of the central nervous system with symptoms such as headache, dizziness, nausea and loss of coordination. Skin contact can cause defatting of the skin, skin irritation and dermatitis. Benzene is a major constituent of gasoline.
   d. Permissible exposure level for a time weighted average over an eight hour period is 300 ppm.

8. Waste Oil
   a. Toxic hazard by **ingestion** and possibly **inhalation.**
   b. Prolonged contact may cause skin irritation and dermatitis. Waste oil may be carcinogenic.*
   c. Waste oil may contain metals or toxic organics from thermal breakdown of the oil. In some cases, chlorinated solvents may be present.
   d. Permissible exposure level for a time weighted average over an eight hour period is 5 ppm (in vapor).

*** Known to the State of California to cause cancer.**

Dusty Roy has been designated to coordinate access control and security on site. All work will strictly follow OSHA guidelines. A safe perimeter has been established at a three feet radius surrounding the site. These boundaries are identified by yellow caution tape and orange safety cones. Personnel shall maintain the maximum distance from the pit while performing their duties. No one shall enter an excavation pit that is greater than five feet in depth unless the excavation is shored or sloped and no one shall climb on the stockpiled material except to cover it with plastic. Additional hazards on site include heavy equipment and overhead lifting equipment. Heavy equipment used for performing the tank removal project may include a backhoe, an excavator, or a crane for lifting the tank out of the excavation. Only 40 hour trained personnel will operate equipment or perform any duty associated with this project. A hard hat and steel toed boots are mandatory for all personnel associated with the tank removal.

A FIRST AID KIT AND A 40 POUND BC FIRE EXTINGUISHER WILL BE AVAILABLE ON SITE.
EMERGENCY SERVICES ARE AVAILABLE BY DIALING **911** ON THE TELEPHONE LOCATED IN THE SITE MANAGER'S VEHICLE. THIS VEHICLE WILL BE ON SITE AT ALL TIMES.

E. PERSONAL PROTECTIVE CLOTHING

Based on evaluation of potential hazards, level "D" protective clothing has been designated as the appropriate protection for this project. The level of protective clothing will be upgraded if the organic vapor levels in the operator's breathing zone exceeds 5 ppm above background levels continuously for more than five minutes, or if any single reading exceeds 25 ppm. If this occurs then level C protection will be used. If the organic concentration in the operator's breathing zone exceed's 200 ppm for 5 minutes and/or the organic vapor concentration two feet above the excavation exceeds 1,000 ppm or 10% of the lower explosive limit, then the equipment will be shut down and the site evacuated. If organic vapor concentrations exceed 200 ppm and work continues then level B protection will be required.

"EPA Standard Operating Safety Guidelines" defines the levels of protective clothing as follows:

LEVEL A:
Fully encapsulating suit / SCBA / Hard hat / Steel toe boots / Safety gloves.

LEVEL B:
Splash resistant suit / SCBA / Hard Hat / Steel toe boots / Safety gloves.

LEVEL C:
Half face respirator / Hard hat / Safety glasses / Steel toe boots / Coveralls / Gloves.

LEVEL D:
Coveralls / Hardhat / Safety Glasses / Steel toe boots / Gloves.

If air purifying respirators are authorized, organic vapor w-filter is the appropriate canister for use with the involved substances and concentrations. A competent individual has determined that all criteria for using this type of respiratory protection have been met.

NO CHANGES TO THE SPECIFIED LEVELS OF PROTECTION SHALL BE MADE WITHOUT THE APPROVAL OF THE COMPANY SAFETY OFFICER, JOHN ORMEROD.

F. MONITORING INSTRUMENTS

The following environmental monitoring instruments shall be used on site at specified intervals.

Lower Explosive Limit (LEL) Meter that will also check the tank for Oxygen levels will be used to check the tank for removal and transportation.

G. EMERGENCY HOSPITAL

The closest hospital with an emergency room is:

Highland General Hospital	**(510) 437-4397**
Emergency	**911**

DIRECTIONS FROM THE JOB SITE:

EXIT JOBSITE AND GO:

Left on 75th Avenue
Left on E.14th Street
Right on 14th Avenue
Hospital is on the corner of 14th Avenue and E 31st Street

APPENDIX C

TRANSPORT AND DISPOSAL DOCUMENTS

Form Approved OMB No. 2050-0039 (Expires 9-30-99)
Please print or type. *Form designed for use on elite (12-pitch) typewriter.*

See Instructions on back of page 6.

Department of Toxic Substances Control
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CAC002292713 — Manifest Document No. 3472 — 2. Page 1 of 1 — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
OMEGA TERMITE
807 · 75TH AVE OAKLAND CA. 94621

4. Generator's Phone (510) 562-1333

A. State Manifest Document Number: 99630472

B. State Generator's ID:

5. Transporter 1 Company Name: Ecology Control Industries — 6. US EPA ID Number: CAD982493173

C. State Transporter's ID [Reserved.]

D. Transporter's Phone: 510-236-1393

7. Transporter 2 Company Name — 8. US EPA ID Number

E. State Transporter's ID [Reserved.]

F. Transporter's Phone

9. Designated Facility Name and Site Address
ECOLOGY CONTROL INDUSTRIES
255 PARR BLVD
RICHMOND CA 94801 — 10. US EPA ID Number: CAD983449332

G. State Facility's ID

H. Facility's Phone: 510 236-1393

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. WASTE EMPTY STORAGE TANK NON RCRA HAZARDOUS WASTE SOLID	001	TP	00028	P	State: EPA/Other: NONE
b.					State: EPA/Other:
c.					State: EPA/Other:
d.					State: EPA/Other:

J. Additional Descriptions for Materials Listed Above
QTY 1 EMPTY STORAGE TANK(S) 28028
TANK(S) HAVE BEEN INERTED
WITH 10 LBS DRY ICE PER 1000 GALLON CAPACITY

K. Handling Codes for Wastes Listed Above
a. — b.
c. — d.

15. Special Handling Instructions and Additional Information
Wear proper protective equipment while handling. Weights or volumes are approximate
24 Hour emergency telephone number: 1-800-788-1393
24 Hour emergency contact: ECI DISPATCH
DOT PROP# 171

16. **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 national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature	Month	Day	Year
John Ormerod agent for owner	John Ormerod	03	20	00

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
DON W. WRIGHT	Don W. Wright	03	20	00

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

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

Printed/Typed Name	Signature	Month	Day	Year

GENERATOR — TRANSPORTER — FACILITY

DO NOT WRITE BELOW THIS LINE.

DTSC 8022A (1/99)
EPA 8700—22

Yellow: GENERATOR RETAINS

State of California—Environmental Protection Agency
Form Approved OMB No. 2050-0039 (Expires 9-30-99)
Please print or type. Form designed for use on elite (12-pitch) typewriter.

See Instructions on back of page 6.

5240327

Department of Toxic Substances Control
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CAC002292713 | Manifest Document No. 30712 | 2. Page 1 of 1 | Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
OMEGA TERMITE
807 75TH AVE OAKLAND CA. 94621

4. Generator's Phone (510) 562-1333

A. State Manifest Document Number 99630472

B. State Generator's ID

5. Transporter 1 Company Name: Ecology Control Industries
6. US EPA ID Number: CAD982030173

C. State Transporter's ID (Reserved.)
D. Transporter's Phone 510-235-1393

7. Transporter 2 Company Name
8. US EPA ID Number

E. State Transporter's ID (Reserved.)
F. Transporter's Phone

9. Designated Facility Name and Site Address
ECOLOGY CONTROL INDUSTRIES
255 PARR BLVD
RICHMOND, CA 94801

10. US EPA ID Number: CAD009466392

G. State Facility's ID CAD009466392
H. Facility's Phone 510-235-1393

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. WASTE EMPTY STORAGE TANK NON RCRA HAZARDOUS WASTE SOLID	001	TP	00550	P	State 512 EPA/Other NONE
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above
QTY 1 EMPTY STORAGE TANK(S) # 28023
TANK(S) HAVE BEEN INERTED
WITH 15 LBS DRY ICE PER 1000 GALLON CAPACITY

K. Handling Codes for Wastes Listed Above
a. 01 b.
c. d.

15. Special Handling Instructions and Additional Information
Wear proper protective equipment while handling. Weights or volumes are approximate.
24 Hour emergency telephone number: 1-800-798-1393
24 Hour emergency contact: E C I DISPATCH
DOT ERG# 171

16. 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 national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: John Ormerod agent for owner | Signature: John Ormerod | Month Day Year: 03 20 00

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: DON W. WRIGHT | Signature: Don W. Wright | Month Day Year: 03 20 00

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: DAVID SATO | Signature: DAVE SATO | Month Day Year: 03 20 00

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA, CALL 1-800-852-7550

GENERATOR / TRANSPORTER / FACILITY

DO NOT WRITE BELOW THIS LINE.

DTSC 8022A (1/99)
EPA 8700—22

DAY OR NIGHT TELEPHONE (510) 235-1393

CERTIFICATE

CERTIFIED SERVICES COMPANY

255 Parr Boulevard • Richmond, California 94801

NO. 35615

CUSTOMER

JOB NO. 5240327 ALL ENVIRONMENTAL

FOR: ECOLOGY CONTROL IND TANK NO. 28028

LOCATION: RICHMOND, CA DATE: 5/5/2000 TIME: 9:39:08

TEST METHOD VISUAL GASTECH/1314 SMPN LAST PRODUCT UG

This is to certify that I have personally determined that this tank is in accordance with the American Petroleum Institute and have found the condition to be in accordance with its assigned designation. This certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

TANK SIZE 550 Gal. Tank CONDITION SAFE FOR FIRE

REMARKS: OXYGEN 20.9% LOWER EXPLOSIVE LIMIT LESS THAN 0.1% ECOLOGY CONTROL INDUSTRIES HERBY CERTIFIES THAT THE ABOVE NUMBERED TANK HAS BEEN CUT OPEN, PROCESSED, AND THEREFORE DESTROYED AT OUR PERMITTED HAZARDOUS WASTE FACILITY. ECOLOGY CONTROL INDUSTRIES HAS THE APROPRIATE PERMITS FOR, AND HAS ACCEPTED THE TANK SHIPPED TO US FOR PROCESSING.

In the event of any physical or atmospheric changes affecting the gas-free conditions of the above tanks, or if in any doubt, immediately stop all hot work and contact the undersigned. This permit is valid for 24 hours if no physical or atmospheric changes occur.

STANDARD SAFETY DESIGNATION

SAFE FOR MEN: Means that in the compartment or space so designated (a) The oxygen content of the atmosphere is at least 19.5 percent by volume; and that (b) Toxic materials in the atmosphere are within permissable concentrations; and (c) In the judgment of the Inspector, the residues are not capable of producing toxic materials under existing atmospheric conditions while maintained as directed on the Inspector's certificate.

SAFE FOR FIRE: Means that in the compartment so designated (a) The concentration of flammable materials in the atmosphere is below 10 percent of the lower explosive limit; and that (b) In the judgment of the Inspector, the residues are not capable of producing a higher concentration that permitted under existing atmospheric conditions in the presence of fire and while maintained as directed on the Inspector's certificate, and further, (c) All adjacent spaces have either been cleaned sufficiently to prevent the spread of fire, are satisfactorily inerted, or in the case of fuel tanks, have been treated as deemed necessary by the Inspector.

The undersigned representative acknowledges receipt of this certificate and understands the conditions and limitations under which it was issued.

Paula M Chavez — REPRESENTATIVE

TITLE

DAVE SATO — INSPECTOR

CP591

APPENDIX D

ANALYTICAL DOCUMENTATION

NOTIFICATION OF EBMUD TEST RESULTS

EAST BAY
MUNICIPAL UTILITY DISTRICT

DAVID R. WILLIAMS
DIRECTOR OF WASTEWATER

April 18, 2000

OMEGA TERMITE
3210 OLD TUNNEL RD, STE. B
Lafayette, CA 94549-425

Attention: JOHN ORMEROD

Re: Wastewater Discharge Permit No.50436901
Discharge Location - 807 75th Ave. , Oakland

East Bay Municipal Utility District (EBMUD) inspected the subject facility and sampled the wastewater discharge..The measured parameters are in compliance with your Wastewater Discharge Permit.

The test results of the samples and corresponding discharge Permit limitations are shown in the table below.

Date	SS	Sample No.	Type	Parameter	Result	Daily Limit
03/22/00	No. 1	L80552-1	grab	Benzene	< 0.00050	.005
03/22/00	No. 1	L80552-1	grab	Ethyl Benzene	< 0.00080	.005
03/22/00	No. 1	L80552-1	grab	Lead	< 0.00990	.033
03/22/00	No. 1	L80552-1	grab	Toluene	< 0.00070	.005
03/22/00	No. 1	L80552-1	grab	Total Xylenes	< 0.00330	.005

Note: All units are mg/L.

If you have any questions regarding the inspection or the sample results, please contact me.

Sincerely,

Marie Kulka

Marie A. Kulka
(510)287-1632
Wastewater Control Representative
Industrial Discharge Section

EBMUD - Mail Slot # 702
Source Control Division
P.O. Box 24055
Oakland, CA 94623-1055

EBMUD Laboratory Analytical Report

EAST BAY MUNICIPAL UTILITY DISTRICT
Laboratory Services Division
Phone (510) 287-1432 Fax (510) 465-5462
Analytical Results Report

Report generated on: Apr 06 2000, 08:33 pm
Turn-around-time (min to max): 21 to 21 calendar days
Sample(s) received by the lab on: Mar 22 2000, 12:38 pm
Login #: L80552
LSR #: B941-0002-1
Project Title: OMEGA TERMITE ; IW S OMEGA; gw-lo;project

Please route this report to:

1) JACK C. SIM For JCL 4.7.2000

2) WILLIAM M. BLIGAS

Client PM: MARIE KULKA

Legend to the Report Qualifier Flags:

*	= Duplicate value outside of control limits
+	= Positive
-	= Negative
<	= Less than
>	= Greater than
A	= Absent
B	= Analyte detected in method blank
C	= GC/MS confirmation
CG	= Confluent growth
D	= Surrogate spike outside of control limits
E	= Estimated value, concentration outside calibration range
FAIL	= Fail
H	= Analyzed past hold time
I	= Dual Column quantitation difference > 40% RPD
J	= Estimated value, quantitation does not meet SOP criteria
LA	= Lost analysis
M	= Duplicate injection precision not met
N	= Spike recovery outside of control limits
NEG	= Negative
P	= Present
PASS	= Pass
POS	= Positive
Q	= Data qualified by the Data Review Committee
R	= Spike out of calibration range
S	= Method of standard additions used
SP	= Spreader
T	= Diesel/Gasoline pattern is atypical
TNTC	= Too Numerous to Count
U	= Analyte not detected
W	= Post-digestion spike (HGA) outside control limits
X	= Presumptive evidence of a compound
~	= Approximately

EAST BAY MUNICIPAL UTILITY DISTRICT
Laboratory Services Division
Phone (510) 287-1432 Fax (510) 465-5462
Analytical Results Report

Project Number: B941-0002-1
Sample Id: L80552-1
Site: IW S
Locator: OMEGA TERMITE
Client ID:
Collect Date: Mar 22 2000, 10:15am
Receive Date: Mar 22 2000, 12:38pm
Sample Comments:

OMEGA TERMITE ; IW S OMEGA; gw-lo;project
Instantaneous Grab
Omega Termite, #50436901 Located at 807 75th Avenue, Oakland, PSP #1

VOA

Method Reference / Parameter	Matrix / Dilution	Tag / Qualifier	Batch PrepDate / Result	Analysis Date / Units	Run ID / mdlvalue	Worknum / Text
CIS-1,3-DICHLOROPROPENE	10.	U	0.70	ug/L	0.70	
4-METHYL-2-PENTANONE	10.	U	4.0	ug/L	4.0	
1,[redacted]DICHLORO-2-PROPANONE	10.	U	10.	ug/L	10.	
TO[redacted]ENE	10.	U	0.70	ug/L	0.70	
TRANS-1,3-DICHLOROPROPENE	10.	U	0.20	ug/L	0.20	
ETHYLMETHACRYLATE	10.	U	10.	ug/L	10.	
1,[redacted]2-TRICHLOROETHANE	10.	U	0.30	ug/L	0.30	
TE[redacted]ACHLOROETHENE	10.	U	1.1	ug/L	1.1	
1,[redacted]DICHLOROPROPANE	10.	U	0.70	ug/L	0.70	
2-HEXANONE	10.	U	1.0	ug/L	1.0	
DIBROMOCHLOROMETHANE	10.	U	0.60	ug/L	0.60	
ET[redacted]LENE DIBROMIDE	10.	U	1.0	ug/L	1.0	
CH[redacted]ROBENZENE	10.	U	0.50	ug/L	0.50	
1,1,1,2-TETRACHLOROETHANE	10.	U	0.30	ug/L	0.30	
ETHYL BENZENE	10.	U	0.80	ug/L	0.80	
M+[redacted]XYLENES	10.	U	2.2	ug/L	2.2	
O-[redacted]LENE	10.	U	1.1	ug/L	1.1	
STYRENE	10.	U	0.80	ug/L	0.80	
BROMOFORM	10.	U	1.0	ug/L	1.0	
ISOPROPYLBENZENE	10.	U	1.1	ug/L	1.1	
BR[redacted]OBENZENE	10.	U	0.80	ug/L	0.80	
TR[redacted]S-1,4-DICHLORO-2-BUTENE	10.	U	10.	ug/L	10.	
1,1,2,2-TETRACHLOROETHANE	10.	U	1.1	ug/L	1.1	
1,2,3-TRICHLOROPROPANE	10.	U	0.80	ug/L	0.80	
N-[redacted]OPYLBENZENE	10.	U	0.90	ug/L	0.90	
O-[redacted]LOROTOLUENE	10.	U	1.2	ug/L	1.2	
P-[redacted]LOROTOLUENE	10.	U	0.80	ug/L	0.80	
1,3,5-TRIMETHYLBENZENE	10.	U	1.8	ug/L	1.8	
TERT-BUTYLBENZENE	10.	U	0.80	ug/L	0.80	
PE[redacted]ACHLOROETHANE	10.	U	2.0	ug/L	2.0	
1,[redacted]4-TRIMETHYLBENZENE	10.	U	3.5	ug/L	3.5	
SEC-BUTYLBENZENE	10.	U	1.0	ug/L	1.0	
1,3-DICHLOROBENZENE	10.	U	0.60	ug/L	0.60	
P-[redacted]OPROPYLTOLUENE	10.	U	0.80	ug/L	0.80	
1,[redacted]DICHLOROBENZENE	10.	U	0.40	ug/L	0.40	
1,[redacted]DICHLOROBENZENE	10.	U	0.50	ug/L	0.50	
N-BUTYLBENZENE	10.	U	1.0	ug/L	1.0	
BIS(2-CHLOROISOPROPYL)ETHER	10.	U	6.0	ug/L	6.0	
HE[redacted]ACHLOROETHANE	10.	U	10.	ug/L	10.	
DI[redacted]ROMOCHLOROPROPANE	10.	U	4.7	ug/L	4.7	
NITROBENZENE	10.	U	200	ug/L	200	
1,2,4-TRICHLOROBENZENE	10.	U	1.1	ug/L	1.1	
HE[redacted]ACHLOROBUTADIENE	10.	U	1.2	ug/L	1.2	
NA[redacted]THALENE	10.	U	1.0	ug/L	1.0	
1,[redacted]3-TRICHLOROBENZENE	10.	U	1.1	ug/L	1.1	
EPA 200.7	WasteH2O		31-MAR-00	05-APR-00	R79016	WG69762
AR[redacted]ENIC	1.10	U	8.80	ug/L	8.80	
AL[redacted]MINUM	1.10		68.8	ug/L	12.1	
SILVER	1.10	U	3.30	ug/L	3.30	
BORON	1.10		245.	ug/L	3.30	
BA[redacted]IUM	1.10		6000	ug/L	0.770	
BE[redacted]YLLIUM	1.10	U	0.110	ug/L	0.110	
CA[redacted]CIUM	1.10	B	42400	ug/L	11.0	
CADMIUM	1.10	U	0.770	ug/L	0.770	

[redacted]ATCH PREPDATE as initial date of sample preparation
ANALYSIS DATE as date of analysis

EAST BAY MUNICIPAL UTILITY DISTRICT
Laboratory Services Division
Phone (510) 287-1432 Fax (510) 465-5462
Analytical Results Report

Project Number: B941-0002-1
Sample Id: L80552-2
Site: IW S
Locator: OMEGA TERMITE
Client ID:
Collect Date: Mar 22 2000, 10:15am
Receive Date: Mar 22 2000, 12:38pm
Sample Comments: QCTB for L80552-1; PREP'D 8-MAR-00 BY TCB

OMEGA TERMITE ; IW S OMEGA; gw-lo;project
Trip Blank Grab
Omega Termite, #50436901 Located at 807 75th Avenue, Oakland, PSP #1

Method Reference / Parameter	Matrix / Dilution	Tag / Qualifier	Batch PrepDate / Result	Analysis Date / Units	Run ID / mdlvalue	Worknum / Text
EPA 624	WasteH2O		03-APR-00	03-APR-00	R79046	WG69701
FLUOROBENZENE	1.00		114.	% recovery		
CHLOROBENZENE	1.00		110.	% recovery		
D4-1,4-DICHLOROBENZENE	1.00		103.	% recovery		
DIBROMOFLUOROMETHANE	1.00		98.0	% recovery		
D4-DICHLOROETHANE	1.00		96.0	% recovery		
D8-TOLUENE	1.00		99.6	% recovery		
4-BROMOFLUOROBENZENE	1.00		95.2	% recovery		
DICHLORODIFLUOROMETHANE	1.0	U	0.090	ug/L	0.090	
CHLOROMETHANE	1.0	U	0.10	ug/L	0.10	
VINYL CHLORIDE	1.0	U	0.070	ug/L	0.070	
1,3-BUTADIENE	1.0	U	0.20	ug/L	0.20	
BROMOMETHANE	1.0	U	0.21	ug/L	0.21	
CHLOROETHANE	1.0	U	0.19	ug/L	0.19	
FLUOROTRICHLOROMETHANE	1.0	U	0.15	ug/L	0.15	
ETHYL ETHER	1.0	U	2.0	ug/L	2.0	
ACROLEIN	1.0	U	20.	ug/L	20.	
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	1.0	U	0.10	ug/L	0.10	
1,1-DICHLOROETHENE	1.0	U	0.050	ug/L	0.050	
ACETONE	1.0		17.	ug/L	6.0	
IODOMETHANE	1.0	U	1.0	ug/L	1.0	
CARBON DISULFIDE	1.0	U	0.10	ug/L	0.10	
ALLYL CHLORIDE	1.0	U	1.0	ug/L	1.0	
METHYLENE CHLORIDE	1.0	U	0.070	ug/L	0.070	
ACRYLONITRILE	1.0	U	1.0	ug/L	1.0	
METHYL-T-BUTYL ETHER	1.0	U	0.50	ug/L	0.50	
TRANS-1,2-DICHLOROETHENE	1.0	U	0.14	ug/L	0.14	
DIISOPROPYL ETHER	1.0	U	0.50	ug/L	0.50	
VINYL ACETATE	1.0	U	0.20	ug/L	0.20	
1,1-DICHLOROETHANE	1.0	U	0.070	ug/L	0.070	
ETHYL-T-BUTYL ETHER	1.0	U	0.50	ug/L	0.50	
2-BUTANONE	1.0	U	3.0	ug/L	3.0	
ETHYL ACETATE	1.0	U	0.10	ug/L	0.10	
2,2-DICHLOROPROPANE	1.0	U	0.17	ug/L	0.17	
CIS-1,2-DICHLOROETHENE	1.0	U	0.050	ug/L	0.050	
METHYLACRYLATE	1.0	U	1.0	ug/L	1.0	
METHYLACRYLONITRILE	1.0	U	1.0	ug/L	1.0	
BROMOCHLOROMETHANE	1.0	U	0.14	ug/L	0.14	
TETRAHYDROFURAN	1.0	U	10.	ug/L	10.	
CHLOROFORM	1.0	U	0.070	ug/L	0.070	
1,1,1-TRICHLOROETHANE	1.0	U	0.080	ug/L	0.080	
1-CHLOROBUTANE	1.0	U	1.0	ug/L	1.0	
1,1-DICHLOROPROPENE	1.0	U	0.070	ug/L	0.070	
CARBON TETRACHLORIDE	1.0	U	0.14	ug/L	0.14	
BENZENE	1.0	U	0.050	ug/L	0.050	
1,2-DICHLOROETHANE	1.0	U	0.060	ug/L	0.060	
TERT-AMYL METHYL ETHER	1.0	U	0.50	ug/L	0.50	
TRICHLOROETHENE	1.0	U	0.050	ug/L	0.050	
1,2-DICHLOROPROPANE	1.0	U	0.12	ug/L	0.12	
METHYLMETHACRYLATE	1.0	U	1.0	ug/L	1.0	
DIBROMOMETHANE	1.0	U	0.090	ug/L	0.090	
BROMODICHLOROMETHANE	1.0	U	0.040	ug/L	0.040	
2-CHLOROETHYLVINYL ETHER	1.0	U	0.10	ug/L	0.10	
2-NITROPROPANE	1.0	U	1.0	ug/L	1.0	
CHLOROACETONITRILE	1.0	U	10.	ug/L	10.	

BATCH PREPDATE as initial date of sample preparation
ANALYSIS DATE as date of analysis

EAST BAY MUNICIPAL UTILITY DISTRICT
Laboratory Services Division
Phone (510) 287-1432 Fax (510) 465-5462
Batch QC Report
Report generated on: Apr 06 2000, 08:33 pm

Method Reference / Parameter	Qual	Blank	Samp_tag / Units	BatchPrepDate / Qual / Dup RPD	AnalysisDate / Qual / MS REC SPIKE	RunID / Qual / MSD RPD	Worknum / Qual / LCS REC SPIKE
EPA 200.7		WW		31-MAR-00	05-APR-00	R79016	WG69762
ARSENIC	U	8.8	ug/L		93.9	1.72	
AR NIC	U	8.8	ug/L				
AL INUM		18.4	ug/L		94.2	.175	
ALUMINUM		20.4	ug/L				
SILVER	U	3.3	ug/L		90.3	3.58	
SI ER	U	3.3	ug/L				
BO N	U	3.3	ug/L		94.2	.546	
BO N	U	3.3	ug/L				
BARIUM	U	.77	ug/L		94.4	1.36	
BARIUM	U	.77	ug/L				
BE LLIUM	U	.11	ug/L		99.8	1.15	
BE LLIUM	U	.11	ug/L				
CALCIUM		28.4	ug/L		95.3	1.72	
CALCIUM		41.1	ug/L				
CA MIUM	U	.77	ug/L		91.7	.476	
CA MIUM	U	.77	ug/L				
CO ALT		1.34	ug/L		94.4	.757	
COBALT	U	.99	ug/L				
CHROMIUM	U	1.1	ug/L		92	.463	
CH OMIUM	U	1.1	ug/L				
CO PER	U	3.3	ug/L		94.2	1.09	
COPPER	U	3.3	ug/L				
IRON	U	8.8	ug/L		90	5.99	
I N	U	8.8	ug/L				
PO ASSIUM	U	15.4	ug/L		103	1.17	
POTASSIUM	U	15.4	ug/L				
MAGNESIUM	U	17.6	ug/L		98.2	.892	
MAGNESIUM	U	17.6	ug/L				
M GANESE	U	.33	ug/L		91.7	.401	
M GANESE	U	.33	ug/L				
MOLYBDENUM	U	2.2	ug/L		93.7	1.04	
MOLYBDENUM	U	2.2	ug/L				
S IUM	U	12.1	ug/L		87.4	.572	
S IUM	U	12.1	ug/L				
NICKEL	U	3.3	ug/L		92.4	.662	
NICKEL	U	3.3	ug/L				
LEAD	U	9.9	ug/L		97.2	1.02	
L D	U	9.9	ug/L				
A IMONY		8.41	ug/L		103	1.39	
ANTIMONY	U	7.7	ug/L				
SELENIUM	U	27.5	ug/L		107	1.94	
S ENIUM	U	27.5	ug/L				
S ICON	U	34.1	ug/L		N 238	* 33.8	
SILICON	U	34.1	ug/L				
STRONTIUM	U	.33	ug/L		97	* 67.4	
STRONTIUM		5.25	ug/L				
T LLIUM	U	7.7	ug/L		N 54.5	2.03	
T LLIUM	U	7.7	ug/L				
VANADIUM	U	.99	ug/L		99.2	1.02	
VANADIUM	U	.99	ug/L				
Z C		9.47	ug/L		92.5	1.87	
Z C	U	4.4	ug/L				

L ANK - background Method Blank
DUP RPD - duplicate RPD for precision
MS REC SPIKE - Matrix Spike Recovery for accuracy (%)
D RPD - Matrix Spike Duplicate precision (%) (determined by base results)
S REC SPIKE - Laboratory Control Sample Recovery for Accuracy (%)

EAST BAY MUNICIPAL UTILITY DISTRICT
Laboratory Services Division
Phone (510) 287-1432 Fax (510) 465-5462
Batch QC Report
Report generated on: Apr 06 2000, 08:33 pm

ethod Reference / rameter	Qual	Blank	Samp_tag / Units	BatchPrepDate / Qual / Dup / RPD	Qual	AnalysisDate / MS / REC	RunID / Qual / MSD / RPD	Qual	Worknum / LCS / REC SPIKE
HEXANONE	U	.1	ug/L			130	1.3		96
IBROMOCHLOROMETHANE	U	.06	ug/L			110	5.7		98
THYLENE DIBROMIDE	U	.1	ug/L			110	2.7		94
HLOROBENZENE	U	.05	ug/L			99	.54		100
1,1,2,2-TETRACHLOROETHANE	U	.03	ug/L			100	3.8		100
THYL BENZENE	U	.08	ug/L			94	.092		100
M,P XYLENES	U	.22	ug/L			100	2		110
O-XYLENE	U	.11	ug/L			98	.58		99
TYRENE	U	.08	ug/L			100	1.5		100
ROMOFORM	U	.1	ug/L			110	2		88
SOPROPYLBENZENE	U	.11	ug/L			87	2.3		100
ROMOBENZENE	U	.08	ug/L			110	4.4		100
RANS-1,4-DICHLORO-2-BUTENE	U	1	ug/L			120	1.2		100
1,1,2,2-TETRACHLOROETHANE	U	.11	ug/L			130	5.9		96
1,2,3-TRICHLOROPROPANE	U	.08	ug/L			120	1.2		100
N-PROPYLBENZENE	U	.09	ug/L			85	2.7		110
O-CHLOROTOLUENE	U	.12	ug/L			94	.33		100
P-CHLOROTOLUENE	U	.08	ug/L			95	.22		100
1,3,5-TRIMETHYLBENZENE	U	.18	ug/L			84	2.8		100
ERT-BUTYLBENZENE	U	.08	ug/L			100	6.4		99
ETRACHLOROETHANE	U	.2	ug/L			100	4.8		81
1,2,4-TRIMETHYLBENZENE	U	.35	ug/L			88	1.7		99
EC-BUTYLBENZENE	U	.1	ug/L		N	69	8		110
1,3-DICHLOROBENZENE	U	.06	ug/L			96	.096		110
P-ISOPROPYLTOLUENE	U	.08	ug/L			71	7.6		100
1,4-DICHLOROBENZENE	U	.04	ug/L			87	3.8		110
1,2-DICHLOROBENZENE	U	.05	ug/L			87	.8		100
N-BUTYLBENZENE	U	.1	ug/L		N	51	18		100
IS(2-CHLOROISOPROPYL)ETHER	U	.6	ug/L						
EXACHLOROETHANE	U	1	ug/L		N	59	12		110
IBROMOCHLOROPROPANE	U	.47	ug/L			110	3.7		130
ITYLBENZENE	U	20	ug/L						
1,2,4-TRICHLOROBENZENE	U	.11	ug/L		N	60	14		95
EXACHLOROBUTADIENE	U	.12	ug/L		N	27	19		110
APHTHALENE	U	.1	ug/L			97	4.2		97
1,2,3-TRICHLOROBENZENE	U	.11	ug/L		N	67	9.7		110

BLANK - background Method Blank
DUP RPD - duplicate RPD for precision
MS REC SPIKE - Matrix Spike Recovery for accuracy (%)
MS RPD - Matrix Spike Duplicate precision (%) (determined by base results)
LCS REC SPIKE - Laboratory Control Sample Recovery for Accuracy (%)

[redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted]

Laboratory Services Chain of Custody Record

Prelog or Login No.: L80552

Project Title
OMEGA TERMITE ; IW S OMEGA; gw-lo;project
Account or Project: B941-0002-1

Client PM: MARIE KULKA
Tel No.: 287-1726
Lab PM: JACK C. LIM

Sampled by: K BIBER
Rcvd: 22-MAR-00 12:38
Sample Date: 22-MAR-00

Lab No.	Sample Type	Time	Site	Locator	Sample Matrix	Container ID Barcode	Tests Required	Preservative	Date Initials	pH
L80552-1	GRAB	10:15	IW S	OMEGA TERMITE	WasteH2O	214510	PLSTL ICP 8 EPA 200.7			
					WasteH2O	214511	VOA4A 624			
					WasteH2O	214512	VOA4A 624			
					WasteH2O	214513	VOA4A 624			
					WasteH2O		+REPORT			
ClientID:	Sample Comments:									
L80552-2	QCTB	10:15	IW S	OMEGA TERMITE	WasteH2O	212303	VOA4A 624			
ClientID:	Sample Comments: QCTB for L80552-1; PREP'D 8-MAR-00 BY TCB									

Total containers received: 5

	Signature	Print Name	Time	Date
Relinquished by				
Received by				
Relinquished by				
Received by				
Relinquished by				
Received by				

Type Codes: CF01;CF02;CF03;CFV;COMP;CT01;CT02;CT03
CT04;CT05;CT06;CT07;CT08;CTV;GRAB

East Bay Municipal Utility District
Laboratory Services Chain of Custody Record

Prelog or Login No.: L80552

Project Title
OMEGA TERMITE ; IW S OMEGA; gw-lo;project
Account or Project: B941-0002-1

Client PM: MARIE KULKA
Tel No.: 287-1726
Lab PM: JACK C. LIM

Sampled by: K BIBER
Rcvd: 22-MAR-00 12:38
Sample Date: 22-MAR-00

Lab No.	Sample TypeTime	Site	Locator	Sample Matrix	Container ID Barcode	Tests Required	Date Preservative Initials	pH
L80552-1	GRAB 10:15	IW S	OMEGA TERMITE	WasteH2O	214510	PLSTL ICP 8 EPA 200.7		
				WasteH2O	214511	VOA4A 624		
				WasteH2O	214512	VOA4A 624		
				WasteH2O	214513	VOA4A 624		
				WasteH2O		+REPORT		
ClientID:	Sample Comments:							
L80552-2	QCTB 10:15	IW S	OMEGA TERMITE	WasteH2O	212303	VOA4A 624		
ClientID:	Sample Comments: QCTB for L80552-1; PREP'D 8-MAR-00 BY TCB							

STATUS UPDATED

Total containers received: 5

	Signature	Print Name	Time	Date
Relinquished by	Karen Biber	KAREN BIBER	12:38	3/22/00
Received by				
Relinquished by				
Received by				
Relinquished by				
Received by	Paula	P TRUONG	1238	3/22/00

Type Codes: CF01;CF02;CF03;CFV;CQ[illegible]CT01;CT02;CT03
CT04;CT05;CT06;CT07;[illegible]CTV;GRAB

COPY

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
http://www.mccampbell.com E-mail: main@mccampbell.com

All Environmental, Inc. 3210 Old Tunnel Road, Suite B Lafayette, CA 94549-4157	Client Project ID: #3456; Omega	Date Sampled: 03/16/00
		Date Received: 03/16/00
	Client Contact: John Ormerod	Date Extracted: 03/16/00
	Client P.O:	Date Analyzed: 03/16/00

03/23/00

Dear John:

Enclosed are:

1). the results of 7 samples from your **#3456; Omega** project,

2). a QC report for the above samples

3). a copy of the chain of custody, and

4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Yours truly,

Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC.

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http://www.mccampbell.com E-mail: main@mccampbell.com

All Environmental, Inc.	Client Project ID: #3456; Omega	Date Sampled: 03/16/00
3210 Old Tunnel Road, Suite B		Date Received: 03/16/00
Lafayette, CA 94549-4157	Client Contact: John Ormerod	Date Extracted: 03/16/00
	Client P.O:	Date Analyzed: 03/16-03/17/00

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with Methyl tert-Butyl Ether* & BTEX*

EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID(5030)

Lab ID	Client ID	Matrix	TPH(g)+	MTBE	Benzene	Toluene	Ethylben-zene	Xylenes	% Recovery Surrogate
33183	AEI EB 7	S	560,b,j	ND<1.0	0.59	4.9	7.3	40	103
33184	AEI SW South 8'	S	290,g	ND<0.2	0.84	2.0	6.3	1.3	101
33185	AEI EB West 11.5'	S	280,a,b	ND<0.21	2.7	6.6	5.2	23	108
33186	AEI SW North 8'	S	1.8,b	ND	ND	ND	0.007	0.008	104
33187	AEI SW East 8'	S	1800,a	ND<5	12	65	32	160	103
33188	AEI STKP 1-4	S	39,g,a	ND	0.038	0.44	0.39	2.5	88
33189	AEI STKP 5-8	S	440,b,j	ND<0.2	0.42	3.4	6.2	30	92
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		W	50 ug/L	5.0	0.5	0.5	0.5	0.5	
		S	1.0 mg/kg	0.05	0.005	0.005	0.005	0.005	

* water and vapor samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP and SPLP extracts in ug/L

cluttered chromatogram; sample peak coelutes with surrogate peak

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol. % sediment; j) no recognizable pattern.

DHS Certification No. 1644

Edward Hamilton, Lab Director

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All Environmental, Inc. 3210 Old Tunnel Road, Suite B Lafayette, CA 94549-4157	Client Project ID: #3456; Omega	Date Sampled: 03/16/00
		Date Received: 03/16/00
	Client Contact: John Ormerod	Date Extracted: 03/16/00
	Client P.O:	Date Analyzed: 03/16/00

Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel *

EPA methods modified 8015, and 3550 or 3510; California RWQCB (SF Bay Region) method GCFID(3550) or GCFID(3510)

Lab ID	Client ID	Matrix	TPH(d)+	% Recovery Surrogate
33183	AEI EB 7	S	220,d,b	83
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		W	50 ug/L	
		S	1.0 mg/kg	

* water and vapor samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP / STLC / SPLP extracts in ug/L

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) medium boiling point pattern that does not match diesel (?); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol. % sediment.

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All Environmental, Inc. 3210 Old Tunnel Road, Suite B Lafayette, CA 94549-4157	Client Project ID: #3456; Omega	Date Sampled: 03/16/00
		Date Received: 03/16/00
	Client Contact: John Ormerod	Date Extracted: 03/16/00
	Client P.O:	Date Analyzed: 03/16-02/21/00

Petroleum Oil & Grease (with Silica Gel Clean-up) *

EPA methods 413.1, 9070 or 9071; Standard Methods 5520 D/E&F or 503 D&E for solids and 5520 B&F or 503 A&E for liquids

Lab ID	Client ID	Matrix	Oil & Grease*
33183	AEI EB 7	S	100
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		W	5 mg/L
		S	50 mg/kg

* water samples are reported in mg/L, wipe samples in mg/wipe, soil and sludge samples in mg/kg, and all TCLP / STLC / SPLP extracts in mg/L

h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5vol. % sediment.

DHS Certification No. 1644

Edward Hamilton, Lab Director

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All Environmental, Inc. 3210 Old Tunnel Road, Suite B Lafayette, CA 94549-4157	Client Project ID: #3456; Omega	Date Sampled: 03/16/00
		Date Received: 03/16/00
	Client Contact: John Ormerod	Date Extracted: 03/16/00
	Client P.O:	Date Analyzed: 03/16-03/17/00

Lead*

EPA analytical methods 6010/200.7, 239.2+

Lab ID	Client ID	Matrix	Extraction °	Lead*	% Recovery Surrogate
33183	AEI EB 7	S	TTLC	7.5	104
33184	AEI SW South 8'	S	TTLC	9.1	111
33185	AEI EB West 11.5'	S	TTLC	5.9	109
33186	AEI SW North 8'	S	TTLC	7.3	106
33187	AEI SW East 8'	S	TTLC	7.4	109
33188	AEI STKP 1-4	S	TTLC	40	106
33189	AEI STKP 5-8	S	TTLC	24	107
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		S	TTLC	3.0 mg/kg	
		W	TTLC	0.005 mg/L	
		---	STLC,TCLP	0.2 mg/L	

* soil and sludge samples are reported in mg/kg, wipe samples in ug/wipe, and water samples and all STLC / SPLP / TCLP extracts in mg/L

+Lead is analysed using EPA method 6010 (ICP)for soils, sludges, STLC & TCLP extracts and method 239.2 (AA Furnace) for water samples

@ DISTLC extractions are performed using STLC methodology except that deionized water is substituted for citric acid buffer as the extraction fluid. DISTLC results are not applicable to STLC regulatory limits.

° EPA extraction methods 1311(TCLP), 3010/3020(water,TTLC), 3040(organic matrices,TTLC), 3050(solids,TTLC); STLC - CA Title 22

surrogate diluted out of range; N/A means surrogate not applicable to this analysis

& reporting limit raised due matrix interference

i) liquid sample that contains greater than ~2 vol. % sediment; this sediment is extracted with the liquid, in accordance with EPA methodologies and can significantly effect reported metal concentrations.

DHS Certification No. 1644

Edward Hamilton, Lab Director

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QC REPORT

Date: 03/16/00 Matrix: Soil

Extraction: N/A

Compound	Concentration: mg/kg				%Recovery		RPD
	Sample	MS	MSD	Amount Spiked	MS	MSD	
SampleID: 28797					Instrument: GC-7		
Surrogate1	0.000	107.0	96.0	100.00	107	96	10.8
Xylenes	0.000	290.0	286.0	300.00	97	95	1.4
Ethyl Benzene	0.000	89.0	88.0	100.00	89	88	1.1
Toluene	0.000	93.0	89.0	100.00	93	89	4.4
Benzene	0.000	84.0	85.0	100.00	84	85	1.2
MTBE	0.000	83.0	80.0	100.00	83	80	3.7
GAS	0.000	907.5	876.2	1000.00	91	88	3.5
SampleID: 28753					Instrument: GC-2 B		
Surrogate1	0.000	105.0	103.0	100.00	105	103	1.9
TPH (diesel)	0.000	261.0	259.0	300.00	87	86	0.8

$$\%\ \text{Recovery} = \frac{(MS - Sample)}{AmountSpiked} \cdot 100$$

$$\text{RPD} = \frac{(MS - MSD)}{(MS + MSD)} \cdot 2 \cdot 100$$

RPD means Relative Percent Deviation

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QC REPORT

Date: 03/21/00 Matrix: Soil

Extraction: N/A

Compound	Concentration: mg/kg				%Recovery		RPD
	Sample	MS	MSD	Amount Spiked	MS	MSD	
SampleID: 28797					Instrument: GC-7		
Surrogate1	0.000	97.0	99.0	100.00	97	99	2.0
Xylenes	0.000	306.0	301.0	300.00	102	100	1.6
Ethyl Benzene	0.000	97.0	96.0	100.00	97	96	1.0
Toluene	0.000	98.0	97.0	100.00	98	97	1.0
Benzene	0.000	97.0	96.0	100.00	97	96	1.0
MTBE	0.000	91.0	91.0	100.00	91	91	0.0
GAS	0.000	1087.2	1041.3	1000.00	109	104	4.3
SampleID: 32100					Instrument: MB-1		
Oil & Grease	0.000	19.3	18.6	20.00	97	93	3.7
SampleID: 28778					Instrument: GC-2 B		
Surrogate1	0.000	106.0	104.0	100.00	106	104	1.9
TPH (diesel)	0.000	268.0	259.0	300.00	89	86	3.4

$$\%\,\text{Recovery} = \frac{(MS - Sample)}{AmountSpiked} \cdot 100$$

$$\text{RPD} = \frac{(MS - MSD)}{(MS + MSD)} \cdot 2 \cdot 100$$

RPD means Relative Percent Deviation

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QC REPORT

Lead

Date: 03/16/00-03/17/00 Matrix: Soil

Extraction: TTLC

Compound	Concentration: mg/kg				%Recovery		RPD
	Sample	MS	MSD	Amount Spiked	MS	MSD	
SampleID: 31600					Instrument: GFAA-1		
Lead	0.000	5.1	5.2	5.00	101	104	2.2

$$\%\ \text{Recovery} = \frac{(MS - Sample)}{AmountSpiked} \cdot 100$$

$$\text{RPD} = \frac{(MS - MSD)}{(MS + MSD)} \cdot 200$$

RPD means Relative Percent Deviation

ALL ENVIRONMENTAL, INC.
Environmental Engineering & Construction
901 Moraga Road, Suite C
Lafayette, CA 94549
(925) 283-6000 Fax: (925) 283-6121

CHAIN OF CUSTODY

19336 ZAle 169

TAT: RUSH / 24 hr / 48 hr / (5 day) / other

AEI PROJECT MANAGER John Ormerod
PROJECT NAME Omega
PROJECT NUMBER 3456
TOTAL # OF CONTAINERS 13
RCVD. GOOD CONDITION/COLD ☐ Y ☐ N

SAMPLE ID	DATE	TIME	MATRIX	TPH(g), BTEX, MTBE (SOIL: EPA 5030/8015M, 8020; WATER: EPA 5030/8015m, 602)	TPH(d) (SOIL: EPA 5030/8015M; WATER: EPA 5030/8015M)	BTEX, MTBE (SOIL: EPA 8020; WATER: EPA 602)	TOTAL OIL & GREASE (SOIL: EPA 413.1 or STD. 5520 D/E&F; WATER: STD. 5520 B&F)	VOLATILE HALOCARBONS (SOIL: EPA 8010; WATER: EPA 601)	VOC's (SOIL: EPA 8240; WATER: EPA 624)	SEMI-VOLATILE ORGANICS (SOIL: EPA 8270/3550; WATER: EPA 625/3510)	TOTAL LEAD (SOIL: 6010 (ICP); WATER: 239.2 (AA))	LUFT 5 METALS (SOIL: EPA 7130, 7190, 7420, 7520, 7950; WATER:)				HOLD	# OF CONTAINERS
AEI EB 7 (500 gallon UST)	3/16/00		S	X	X		X				X						33183
AEI SW South 8'				X							X						33184
AEI EB West 11½'				X							X						33185
AEI SW North 8'				X							X						33186
AEI SW East 8'				X							X						33187
AEI STKP 1-4				X							X						33188
AEI STKP 5-8				X							X						33189
				X							X						

ICE/t° ✓ GOOD CONDITION ✓ HEAD SPACE ABSENT ___
PRESERVATION: VOAS | O&G | METALS | OTHER
APPROPRIATE CONTAINERS ✓

LIMV

COMMENTS / INSTRUCTIONS

ANALYTICAL LABORATORY McCampbell Analytical
ADDRESS
PHONE ( ) FAX ( )

	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
SIGNATURE	John Ormerod	Yen Cao		
PRINTED NAME	John Ormerod	Yen Cao		
COMPANY	AEI	MAI		
DATE / TIME	3/16/00 4:45	3/16		

McCAMPBELL ANALYTICAL INC.
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http://www.mccampbell.com E-mail: main@mccampbell.com

All Environmental, Inc. 3210 Old Tunnel Road, Suite B Lafayette, CA 94549-4157	Client Project ID: #3456 Omega	Date Sampled: 03/16/00
		Date Received: 03/16/00
	Client Contact: John Ormerod	Date Extracted: 03/16/00
	Client P.O:	Date Analyzed: 03/16/00

03/23/00

Dear John:

Enclosed are:

1). the results of 1 samples from your **#3456 Omega** project,

2). a QC report for the above samples

3). a copy of the chain of custody, and

4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Yours truly,

Edward Hamilton, Lab Director

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All Environmental, Inc.	Client Project ID: #3456 Omega	Date Sampled: 03/16/00
3210 Old Tunnel Road, Suite B		Date Received: 03/16/00
Lafayette, CA 94549-4157	Client Contact: John Ormerod	Date Extracted: 03/16/00
	Client P.O:	Date Analyzed: 03/16/00

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with Methyl tert-Butyl Ether* & BTEX*

EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID(5030)

Lab ID	Client ID	Matrix	TPH(g)+	MTBE	Benzene	Toluene	Ethylben-zene	Xylenes	% Recovery Surrogate
33182	AEI Tank	W	56,a	ND	1.4	0.51	1.3	3.9	101
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		W	50 ug/L	5.0	0.5	0.5	0.5	0.5	
		S	1.0 mg/kg	0.05	0.005	0.005	0.005	0.005	

* water and vapor samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP and SPLP extracts in ug/L

cluttered chromatogram; sample peak coelutes with surrogate peak

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol. % sediment; j) no recognizable pattern.

DHS Certification No. 1644

Edward Hamilton, Lab Director

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All Environmental, Inc.	Client Project ID: #3456 Omega	Date Sampled: 03/16/00
3210 Old Tunnel Road, Suite B		Date Received: 03/16/00
Lafayette, CA 94549-4157	Client Contact: John Ormerod	Date Extracted: 03/16/00
	Client P.O:	Date Analyzed: 03/16/00

Lead*

EPA analytical methods 6010/200.7, 239.2[+]

Lab ID	Client ID	Matrix	Extraction °	Lead*	% Recovery Surrogate
33182	AEI Tank	W	TTLC	ND	N/A
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		S	TTLC	3.0 mg/kg	
		W	TTLC	0.005 mg/L	
		---	STLC,TCLP	0.2 mg/L	

* soil and sludge samples are reported in mg/kg, wipe samples in ug/wipe, and water samples and all STLC / SPLP / TCLP extracts in mg/L

[+]Lead is analysed using EPA method 6010 (ICP)for soils, sludges, STLC & TCLP extracts and method 239.2 (AA Furnace) for water samples

@ DISTLC extractions are performed using STLC methodology except that deionized water is substituted for citric acid buffer as the extraction fluid. DISTLC results are not applicable to STLC regulatory limits.

° EPA extraction methods 1311(TCLP), 3010/3020(water,TTLC), 3040(organic matrices,TTLC), 3050(solids,TTLC); STLC - CA Title 22

surrogate diluted out of range; N/A means surrogate not applicable to this analysis

& reporting limit raised due matrix interference

i) liquid sample that contains greater than ~2 vol. % sediment; this sediment is extracted with the liquid, in accordance with EPA methodologies and can significantly effect reported metal concentrations.

DHS Certification No. 1644

Edward Hamilton, Lab Director

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QC REPORT

Date: 03/16/00 Matrix: Water

Extraction: N/A

Compound	Concentration: ug/L				%Recovery		RPD
	Sample	MS	MSD	Amount Spiked	MS	MSD	
SampleID: 31600				Instrument: GC-3			
Surrogate1	0.000	101.0	100.0	100.00	101	100	1.0
Xylenes	0.000	270.0	267.0	300.00	90	89	1.1
Ethyl Benzene	0.000	90.0	96.0	100.00	90	96	6.5
Toluene	0.000	92.0	100.0	100.00	92	100	8.3
Benzene	0.000	97.0	105.0	100.00	97	105	7.9
MTBE	0.000	87.0	106.0	100.00	87	106	19.7
GAS	0.000	844.2	843.0	1000.00	84	84	0.1
SampleID: 31300				Instrument: GC-2 A			
Surrogate1	0.000	112.0	108.0	100.00	112	108	3.6
TPH (diesel)	0.000	288.0	278.0	300.00	96	93	3.5

$$\%\ \text{Recovery} = \frac{(MS - Sample)}{AmountSpiked} \cdot 100$$

$$\text{RPD} = \frac{(MS - MSD)}{(MS + MSD)} \cdot 2 \cdot 100$$

RPD means Relative Percent Deviation

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QC REPORT

CAM 17

Date: 03/16/00-03/17/00 Matrix: Water

Extraction: TTLC

Compound	Concentration: mg/L				%Recovery		RPD
	Sample	MS	MSD	Amount Spiked	MS	MSD	
SampleID: 31600					Instrument: ICP-1		
Beryllium	0.000	5.5	5.3	5.00	110	105	4.8
Selenium	0.000	5.0	5.0	10.00	50	50	0.4
Molybdenum	0.000	5.2	4.9	5.00	103	98	5.2
Silver	0.000	0.5	0.5	0.50	98	97	0.7
Thallium	0.000	5.0	4.9	10.00	50	49	2.1
Barium	0.000	5.1	4.9	5.00	102	97	4.5
Nickel	0.000	5.2	5.1	5.00	104	101	2.8
Arsenic	0.000	5.7	5.5	10.00	57	55	3.4
Vanadium	0.000	5.0	4.8	5.00	100	97	3.3
Surrogate1	0.000	105.0	101.7	100.00	105	102	3.2
Zinc	0.000	5.0	4.8	5.00	101	97	3.7
Copper	0.000	5.0	4.6	5.00	99	92	7.2
Antimony	0.000	4.9	4.6	10.00	49	46	7.1
Lead	0.000	5.0	4.8	10.00	50	48	3.7
Cadmium	0.000	5.6	5.4	5.00	113	108	4.5
Cobalt	0.000	5.2	4.9	5.00	104	98	5.2
Mercury	0.000	1.0	1.0	1.00	97	100	3.0
Chromium	0.000	5.2	4.9	5.00	103	99	4.8

$$\%\ \text{Recovery} = \frac{(MS - Sample)}{AmountSpiked} \cdot 100$$

$$\text{RPD} = \frac{(MS - MSD)}{(MS + MSD)} \cdot 2 \cdot 100$$

RPD means Relative Percent Deviation

ALL ENVIRONMENTAL, INC.

Environmental Engineering & Construction

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Lafayette, CA 94549
(925) 283-6000 Fax: (925) 283-6121

19835 ZAle 1168

CHAIN OF CUSTODY

PAGE / OF /

TAT: (RUSH) / 24 hr / 48 hr / 5 day / other

AEI PROJECT MANAGER: John Ormerod
PROJECT NAME: Omega
PROJECT NUMBER: 3456
TOTAL # OF CONTAINERS:
RCVD. GOOD CONDITION/COLD: ☐ Y ☐ N

SAMPLE ID	DATE	TIME	MATRIX	TPH(g), BTEX, MTBE SOIL: EPA 5030/8015M, 8020 WATER: EPA 5030/8015m, 602	TPH(d) SOIL: EPA 8015/8015M WATER: EPA 8015/8015M	BTEX, MTBE SOIL: EPA 8020 WATER: EPA 602	TOTAL OIL & GREASE SOIL: EPA 413.1 or STD. 5520 O/E&F WATER: STD. 5520 E&F	VOLATILE HALOCARBONS SOIL: EPA 8010 WATER: EPA 601	VOC's SOIL: EPA 8240 WATER: EPA 624	SEMI-VOLATILE ORGANICS SOIL: EPA 8270/3550 WATER: EPA 625/3510	TOTAL LEAD SOIL: (6010 (ICP) WATER: 239.2 (AA)	LUFT 5 METALS SOIL: EPA 7130, 7190, 7420, 7520, 7950 WATER:				HOLD	# OF CONTAINERS
(1) AEI Tank	3/16/00		W	X							X						3

33182

ICE/T ✓
GOOD CONDITION ✓
HEAD SPACE ABSENT !
PRESERVATION APPROPRIATE ✓
CONTAINERS

VOA	O&G	METALS	OTHER
✓			

COMMENTS / INSTRUCTIONS

ANALYTICAL LABORATORY: McCampbell Analytical
ADDRESS:
PHONE ( ) FAX ( )

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
SIGNATURE	Yen Cao	SIGNATURE	SIGNATURE
PRINTED NAME John Ormerod	PRINTED NAME Yen Cao	PRINTED NAME	PRINTED NAME
COMPANY AE	COMPANY MAE	COMPANY	COMPANY
DATE 3/16/00 TIME 4:44	DATE 3/16 TIME	DATE TIME	DATE TIME