



Mr. Safa Toma
East Bay Municipal Utility District
Industrial Discharge Division
P.O. Box 24055
Oakland, California 94623-1055

Subject:

EBMUD Permit Application for Proposed Discharge of Treated Groundwater from Former Texaco Station, 1127 Lincoln Avenue, Alameda, California.

Dear Mr. Toma:

The enclosed East Bay Municipal Utility District (EBMUD) permit application for discharge of treated groundwater is being submitted by California Environmental Engineers and Contractors (CEECON) on behalf of Texaco Environmental Services (TES) for the Former Texaco Bay Street Station, 1127 Lincoln Avenue, in Alameda, California. The location of the site, and adjacent buildings, are shown on the Area Map, AM-1. A layout of the site is shown on the Site Plan, SP-1. Prior subsurface environmental investigations indicate that soil underlying this site contains residual gasoline hydrocarbons and dissolved petroleum hydrocarbons are present in groundwater. An interim soil and groundwater remediation system is proposed for use at this site.

INTRODUCTION

The objectives of the soil and groundwater remediation program include removal of residual and dissolved hydrocarbons from soil and groundwater underlying the site, and prevention of further migration offsite. To accomplish these objectives, a remediation system consisting of a vapor-extraction system, a groundwater recovery system, and above-ground equipment for treatment of extracted soil vapor and groundwater prior to discharge to the atmosphere and sanitary sewer is proposed for this site. However, before system installation can be initiated, a treated groundwater discharge permit must be acquired from EBMUD.

The dissolved gasoline-petroleum hydrocarbons are currently present onsite and possibly down-gradient from the site. As the elevation of the groundwater surface changes due to

natural seasonal fluctuations or induced drawdown, soil will be brought into contact with the

additional dissolved hydrocarbons, resulting in the adsorption of these hydrocarbons onto sediment grains. The resulting residual hydrocarbons are generally more difficult to remove, especially if the affected soil is re-saturated with groundwater. We therefore recommend that a gradual depression of the groundwater surface be induced to elevations below the previous seasonal low (twelve to thirteen feet below ground surface). This recommendation places constraints on the rate of groundwater extraction. Maximum drawdown can be deferred for several months until a significant reduction is observed in the rate of the hydrocarbon removal from the soil above groundwater and the existing capillary fringe.

GROUNDWATER ANALYTICAL RESULTS

Results of laboratory analysis of groundwater samples collected from an onsite groundwater monitoring well, MW-1, are summarized on Table 1, Results of Laboratory Analyses of Water Samples. Concentrations of total petroleum hydrocarbons as gasoline (TPHg) and benzene are shown on Plate 3, TPHg/Benzene Concentrations in Groundwater.

GROUNDWATER EXTRACTION AND TREATMENT SYSTEM

The vapor-extraction component of the remediation system will remove a significant portion of the residual hydrocarbons, and will also enhance volatilization of dissolved hydrocarbons from groundwater. Extracting groundwater from the well (MW-2) will assist in providing hydraulic control, depressing the water table, thus increasing the vadose zone for enhanced performance of the vapor extraction system, and additional recovery of the dissolved hydrocarbon plume. TES proposes to utilize an existing groundwater monitoring well for groundwater extraction. The proposed location of the well, MW-2, is shown on SM-1. Allowances will be made to connect to MW-5 or MW-1 to allow for changes in groundwater flow direction.

TES will be utilizing a modular approach to remediation at this site. A trailer-mounted groundwater treatment system, including water filters, an aeration system, a water hardness chemical injector, and activated carbon polishing is proposed for this site. Instrumentation and controls on this system include water level indicators, transfer pumps, flow indicator, flow totalizer, and sample ports. The system is trailer-mounted and is provided with double-containment for all water and chemical storage drums. An approximate layout of this trailer-mounted system is shown on the attached GTS-1. The system can also be operated without aeration treatment. The aeration tank then serves as only a settling tank before

EBMUD Permit Application - Treated Groundwater Discharge Former Texaco Service Station, 1127 Lincoln Avenue, Alameda, California

April 26, 1993

PERCON

extracted groundwater is treated by liquid-phase activated carbon. A process flow diagram of this system, along with the compressor and groundwater extraction pump, is shown on the attached GTS-2.

Due to the low transmissivity of the water-table aquifer, productivity from the extraction wells is limited. Available disposal options and disposal rates for treated groundwater are also limited. TES proposes to use a groundwater pump to recover an average of 0.5 gpm and a maximum of approximately 2.0 gpm of groundwater, from the groundwater extraction well. We propose to operate the groundwater extraction pump only at the minimum pumping rate required to produce adequate hydraulic control of the dissolved hydrocarbon plume. The hydraulic control will be evaluated by monitoring the drawdown of the potentiometric surface on a monthly frequency; quantitative analyses of groundwater samples will also continue on a quarterly basis. The groundwater extraction wells will be fitted with quick-disconnect fittings to the piping of the groundwater removal system. This will allow relocation of the pump within the system, or the installation of additional pumps, without rewiring or re-piping of the groundwater removal system. These quick-disconnect fittings also enhance flexibility to focus groundwater removal in the area of greatest concern. As remediation progresses, these areas of concern will be identified through laboratory analyses of water and vapor samples from each well.

Treatment of an average of 0.5 gpm and maximum 2.0 gpm effluent stream removed by the groundwater extraction system will be in two stages. The first stage will consist of an aeration system consisting of spray, and diffused aeration. Air removed from this aeration system will be treated by the internal combustion engine as part of the off-gas treatment system. Typical removal rates for diffused aeration tanks such as these are above 95 percent reduction from inlet conditions. Activated carbon will be used as secondary water treatment. Two in-line canisters of liquid-phase granular activated carbon will be used for this secondary water treatment. If the system is operated without aeration treatment, the aeration tank then serves as only a settling tank before extracted groundwater is treated by liquid-phase activated carbon. When inlet vapor-phase hydrocarbon concentrations have been reduced to below 200 ppmv, the system can be modified to operate with activated carbon as the emission control device. Activated carbon can then be used to treat liquid and vapor phases of petroleum hydrocarbons. As initially configured, the groundwater treatment system is capable of processing up to ten gallons per minute.

A layout of the remediation system trench and wellhead cover locations are shown on WT-1. A Process Flow Diagram of the proposed remediation system is shown on PF-1. The vapor-extraction portion of the process flow diagram is being permitted through the Bay Area Air Quality Management District. Also attached are the completed EBMUD Wastewater

Discharge Permit Application. Installation and start-up for this proposed remediation will commence upon receipt of all permit approvals.

The Permitting Fee of \$2,800 is calculated as follows:

Industrial Permit Fee	\$2,260
Capacity Fee	<u>540</u>
TOTAL	\$2,800

Please call if you have any questions, comments, or need any additional information.

Sincerely, CEECON

Michael Hodges Engineering Manager

Attachment:

Completed EBMUD Wastewater Discharge Permit Application

EBMUD Process Description Form

EBMUD Water Balance/Strength Summary Form

Table 1, Cumulative Results of Laboratory Results of

Water Samples

Results of Laboratory Analyses for Groundwater Samples & Chain of Custody Records

AM-1, Area Map

SP-1, Site Plan

Plate 3, TPHg/Benzene Concentrations in Groundwater

WT-1, Remediation Wellhead and Trench Layout

GTS-1, Trailer Mounted Groundwater Treatment System

GTS-2, Groundwater Extraction and Treatment System Process Diagram

cc: Mr. Robert Robles
Texaco Environmental Services
10 Universal City Plaza, 7th Floor
Universal City, California 91608

Ms. Juliet Shin
Alameda County Health Care Service Agencies
Department of Environmental Health
Hazardous Materials Division
80 Swan Way, Room 200
Oakland, California 95621

California Regional Water Quality Control Board San Francisco Bay Region Alameda County Oversight Personnel 2101 Webster Street, Suite 500 Oakland, California 94612

EBMUD WASTEWATER DISCHARGE PERMIT APPLICATION



Business	Nama	CEECON
Susiness	Name	CEECOR

Water Balance / Strength Summary

PURPOSE: This information will enable EBMUD to evaluate the volumes, source(s) and strengths of wastewater discharged to the community sewer.									
WATER USE All quantities shown			on a se	eparate shee	t the meth	od and calcula	ations used	d to determine	the
Figures are: \Box	gallons per c	alendar day [□ gal	lons per worl	king day	Number o	f working c	days per year.	
WATER SUPPLY FROM: WASTEWATER DISCHARGED TO:									
WATER USE	EBMUD	OTHER (1)		ļ		WER (gal/day)		OTHER	(2)
	gal/day		ODE	No.1	No		No	gal/day	CODE
Sanitary	<u> </u>	, , , , , , , , , , , , , , , , , , ,						- J - J	
Processes						 	 		
Boiler			-		· · · · · · · · · · · · · · · · · · ·	 			+
Cooling		 					-	_	+
Washing							 		
Irrigation									+
Product									
Stormwater							 -		+
Other (3)	720		3)						╂
Other (5)			-						
							 		 _
Subtotal							 		
Maximum gr NOTES: 1. Enter the qua 2. Enter the qua 3. Describe Oth by aerati	ntity and the a. Wel antity and app a. Storr er: Extact	appropriate c I b. Creek propriate code mdrain b. Ra ced subsu	ode le c. Sto letter ill, Tru	etter indicating formwater d. indicating that ick, Barge d te hydroc	g the sour Reclaime e discharg c. Evapora	ce: ed Water e. I ge point: ation d. Prod impacted	Raw Mater uct ground	ials. Iwater re	mediat
SANITARY DISC sanitary wastewa	ater volumes Production	s. Field servic Offic Productio on employees	e emp e emp on emp with s	ployees - 5 g ployees - 20 g ployees - 25 g howers - 35 g	gallons pe gallons pe gallons pe gallons pe	r employee pe r employee pe r employee pe r employee pe	er day er day er day er day	,	ne
AVERAGE WAS	STEWATER	STRENGTH:	Data	base must b	e attachec	d. average seif	-monitorin	g and EBMU) data
				SIDE SE	WER (mg L	_)			
		1	(o 1	No	No No	No	\neg		
		CODF E	st.	qq <u>7 - 0</u> qq 3 - 0	n	_			



Texaco Environmental Services / CEECON BUSINESS NAME

URPOSE — The Process Description is intended to provide a descripties and the substances which may enter into the wastewater	scription of the primary busi r from the business activity.	ness	Permit Nui	MUD USE mber	
USINESS ACTIVITY		Business Ci	lassification Code		
Former Gas Station - Groundwater	Remediation	İ			
ESCRIPTION OF PRODUCT	· 				
TYPE OF PRODUCT OR BRAND NAME		Q Past Calendar Y	UANTITIE		
Petrolem Hydrocarbon Impacted Ground		NA		nated This Year 20 gpm (a	
				880 gpm (
				3,5	
ROCESS DESCRIPTION					
PROCESS DESCRIPTION List all wastewater generating operations	CHA List all substances tha	RACTERISTICS it may be discha	S orged to the	sewer.	
Example: Rinsewater from electroplating bath	Cr, (Cu, Ni, Zn			
Example: Washdown of milk filling area	fatty acids, milk				
Remediation of hydrocarbon impacted	Benzene, Toluene, Ethylbenzene,				
groundwater by extraction, treatment	Xylenes (BTEX)	and Tot	al Pe	troleum	
by aeration and carbon adsorption,	Hydrocarbons as gasoline (TPHg).				
prior to discharge to the sewer.	Nondetectable	levels o	of vol	atile	
	organic compou	nds (VOC	(s)		
					
a. Time of day from: (24 hr/day) a. Da	CH DISCHARGE(S) ay(s) of the week:			1	
	-				
OTHER WASTES — List the type and volume of liquid weste and ommunity sewer	sludges removed from the p	remis e s by im	eans othe	r than the	
	TYPE OF WASTE cample larkaline cleaners, organ seatmer tisludger	SQ 430.22	WASTE ID, No	VOLUME (fasige mo	
				1 1 1	



WASTEWATER DISCHARGE PERMIT APPLICATION

PERMIT NUMBER

APPLICANT BUSIN	ESS NAME					
Texaco Envi	ronmental Services (TES)	Sechnical Representative: CEECON				
ADDRESS O	F PREMISE DISCHARGING WASTEWATER	BUSINESS MAILING ADDRESS				
1127 Lin	acoln Avenue	Tech. Rep. 1517 Palmeto Ave. Suite	⊿			
STREET ADDRESS		STREET ADDRESS				
Àlameda, C	California	Pacifica, California 94044				
CITY	ZIP CODE	CITY ZIP CODE				
CHIEF EXECUTIVE						
Michael	Hodges	President/Engineering Manager				
NAME		nπe				
STREET ADDRESS	meto Avenue Suite 4	Pacfica, California 94044				
	E CONTACTED ABOUT THIS APPLICATION	PERSON TO BE CONTACTED IN EVENT OF EMERGENCY	_			
Michael Hod			;			
NAME		Michael Hodges				
President	(415) 738-1115	(415) 738-1115 (415) 738-1115				
TITLE	PHONE	DAY PHONE NIGHT PHONE				
	DOCHMENTATION TO BE BETHEN	ED WITH THE PERMIT APPLICATION:				
	DOCUMENTATION TO BE TIETOTHA	D WITH THE FERIVITI AFFEICATION:				
XI	PROCESS DESCRIPTION	DESCRIPTION OF TREATMENT SYSTEM				
X	WATER BALANCE CALCULATIONS	SELF-MONITORING METHOD				
X	WASTEWATER STRENGTH DATA BASE	SPILL PREVENTION AND CONTAINMENT PLAN				
幻	SCHEMATIC FLOW DIAGRAM	A LIST OF ALL ENVIRONMENTAL PERMITS (E.G. Air, Hazardous Waste)				
X)	BUILDING LAYOUT PLAN	OTHER See cover for additional info	٥.			
	PROV	SIONS				
Applicant will cor	mply with the EBMUD Wastewater Control Ordin	nance and all applicable rules and regulations.				
Applicant will report to EBMUD, Wastewater Department any changes, permanent or temporary, to the premise 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.						
	CERTIFI	CATION				
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. Lam aware that there are supplicant						

penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME (See certification requirements on reverse)	SIGNATURE	
TITLE		DATE

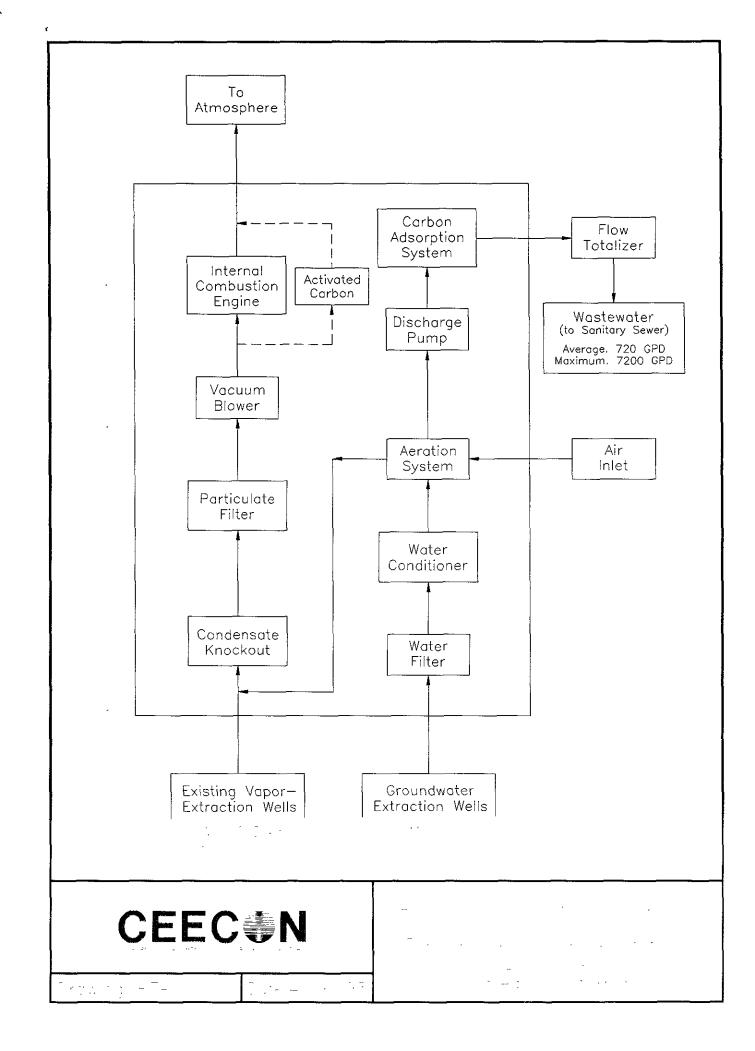


TABLE 1 RESULTS OF LABORATORY ANALYSES OF WATER SAMPLES

Former Texaco Service Station 1127 Lincoln Avenue Alameda, California (Page 1 of 2)

Sample Number	Date	ТРНд	В	т	E	x	VOCs	Pesticides	Cyanide ¹
W-9-MW1	11/07/92	NA	980*	<5.0*	<0.5*	<20.0*	<50.0	< 0.050	NA
W-8-MW1	11/17/92	730	250	22	27	12	NA	NA	NA
W-8-MW1	12/09/92	NA	NA	NA	NA	NA	NA	NA	< 0.01

Results are reported in parts per billion (ppb) with the exception of cyanide, which was reported in parts per million (ppm).

TPHg: Total petroleum hydrocarbons as gasoline

B:

Benzene.

T: Toluene.

E: Ethylbenzene.

X: Xylenes (total).

NA:

Not analyzed.

<: Less than the detection limit for the specified method of analysis.

*: BTEX was included in the volatile organic compounds (VOCs) results.

TPHg and BTEX were analyzed by Environmental Protection Agency (EPA) Methods 5030/602/TPH LUFT.

VOCs were analyzed by Environmental Protection Agency (EPA) Method 8240.

Pesticides were analyzed by EPA Method 625.

Sample Identification:

TABLE 1 RESULTS OF LABORATORY ANALYSES OF WATER SAMPLES

Former Texaco Service Station 1127 Lincoln Avenue Alameda, California (Page 2 of 2)

Metals	Sampling Date	Sample ID	Concentration (ppm)	
	11/05/92	W-9-MW1		
Antimony			< 0.020	
Arsenic			< 0.005	
Beryllium			< 0.001	
Cadmium			0.002	
Chromium			<0.01	
Copper			< 0.005	
Lead			< 0.010	
Mercury			0.002	
Nickel			< 0.020	
Selenium			< 0.005	
Silver			< 0.005	
Thallium			0.06	
Zinc			0.008	

Results in parts per million (ppm).

Sample Identification:

W-9-MW1
| _____Monitoring Well
| _____Depth to Water (in feet)
| _____Water Sample

<: Less than the detection limit for the specified method of analysis.

CHAIN OF CUSTODY AND RESULTS OF LABORATORY ANALYSIS OF GROUNDWATER SAMPLES

CHAIN OF CUSTODY RECORD

PROJECT N		S	T0	SITE	NAME & ADD	PRESS	ALAM	FOA		ANAL	YSES	REC	UEST	ED S		
1-15.10 Peten S	WITNES	SING AGI	ENCY	/ INSF	ETER	Sem	ue ma	n Table	scoline) &	A, G.L. esel) & , & E	Total Oil & Grease	224 Pates	625	12 F. P. 18 S.		REMARKS
ID NO	DATE	TIME	SOIL	WATER	SA	MPLING	LOCATION	n 7aby	TPH (GE	TPH (Diesel) & B, T, X, & E	Total Oil	E-PA 624	****	S S S S S S S S S S S S S S S S S S S		
W-9-MW	1 1/1/	77 .5%		1	MWI	1127	Course	Au				V	1			NORMAL TAT
																9 containers per
							····				<u> </u>		<u> </u>		ļ	
		Ì							<u> </u>				<u> </u>	ļ	ļ	
														<u> </u>		
														<u> </u>		
														<u> </u>		
																<u> </u>
							·					<u> </u>	<u> </u>	ļ	((1) See attached "Table 2" for specific analysis method.
Relinquished b	y (Signa	nture)	-L		ate/Time	Receiv	ved by: ((Signature)	The following MUST BE completed by the taboratory accepting samples for analysis: 1. Have all samples received for analysis been stored in ice?							
Retinquished b	y (Signa	ature)			ete/Time	Receiv	ved by: (Signature)	2. Will samples remain refrigerated until analyzed?							
Relinquished b	oy: (Signa	ature)	**********	C	pate/Time	Receiv	ved by: ('Signature)	Did any samples received for analysis have head space? 4. Were samples in appropriate containers and properly packaged?							
Relinquished b	y (Signi	ature)		1 /	ate/Time 9 92 //:2	1 /3 /	for Laborat	lory by: (Sign	ature)]	Sìgna	ature		 .		Title Date





MOBILE CHEM LABS INC.

5021 Blum Road, Suite 3 • Martinez, CA 94553 Phone (415) 372-3700 • Fax (415) 372-6955

1-15-1006\1718\012293

CEECON

72 Paloma Avenue
Pacifica, CA 94044
Attn: Michael Hodges

Project Manager

Date Sampled: 11-07-92 Date Received: 11-09-92 Date Analyzed: 11-20-92

Sample Number 112172

Sample Description
Proj# 1-15-1006
Texaco - Alameda
1127 Lincoln Avenue
W-9-MW1 WATER

EPA METHOD 8240 PURGEABLE ORGANICS

	Detection μg/kg	Limit	Results µg/kg	Spike Recovery
Benzene Bromodichloromethane Bromoform Bromomethane Carbon Tetrachloride Chlorobenzene Chloroethane Chloroform Chloromethane Dibromochloromethane 1,1-Dichloroethane 1,2-Dichloroethane 1,1-Dichloroethane 1,2-Dichloroethene Trans-1,2-Dichloroethene 1,2-Dichloropropane Cis-1,3-Dichloropropene. Trans-1,3-Dichloropropene. Ethylbenzene Methylene Chloride 1,1,2,2-Tetrachloroethane	μg/kg<5.0<5.0<5.0<5.0<5.0<5.0<5.0<5.0<5.0<5.0<5.0<5.0<5.0<5.0<5.0<5.0<5.0<5.0<5.0			Recovery
Tetrachloroethene	<5.0		ND	• • •
Toluene			ND	
1,1,2-Trichloroethane	<5.0	• • • • • • •	D	• • •
Trichloroethene	<5.0		ND	



MOBILE CHEM LABS INC.

5021 Blum Road, Suite 3 • Martinez, CA 94553 Phone (415) 372-3700 • Fax (415) 372-6955

1-15-1006\1718\012293

CEECON

72 Paloma Avenue Pacifica, CA 94044 Attn: Michael Hodges

Project Manager

Date Sampled: 11-07-92 Date Received: 11-09-92 Date Analyzed: 11-20-92

Sample Number 112172

Sample Description Proj# 1-15-1006 Texaco - Alameda 1127 Lincoln Avenue W-9-MW1

EPA METHOD 8240 PURGEABLE ORGANICS

	Detection µg/kg	Limit	Results µg/kg	Spike Recovery
Vinyl Chloride Total Xylenes	<20.0		ND	• • •
Acetone	<50.0	• • • • • • •	ND ND	• • •
2-Hexanone4-Methyl-2-Pentanone Styrene	<15.0	• • • • • • •	ND ND	• • •
Vinyl Acetate Cis-1,2-Dichloroethene	<50.0		ND	• • •

QA/QC: Sample blank is none detected

Note: Analysis was performed using EPA methods 5030 and 8240

MOBILE CHEM LABS, INC.

Ronald G. Evans Lab Director

Page 2 of 2

CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

November 17, 1992

ChromaLab File No.: 1192080

MOBILE CHEM LABS, INC.

Attn: David Levine

RE: One water sample for Priority Pollutants Metals (13) analyses

Project Name: CEE TEXACO ALAMEDA

Project Number: 1-15-1006

Date Sampled: Nov. 5, 1992

Date Submitted: Nov. 10, 1992

Date Analyzed: Nov. 13, 1992

RESULTS:

Sample I.D.: 112172

		Detection
	Concentration	Limit
<u>Metals</u>	(mg/L)	(mg/L)
Antimony (Sb)	N.D.	0.020
Arsenic (As)	N.D.	0.005
Beryllium (Be)	N.D.	0.001
Cadmium (Cd)	0.002	0.001
Chromium (Cr)	N.D.	0.01
Copper (Cu)	N.D.	0.005
Lead (Pb)	N.D.	0.010
Mercury (Hg)	0.002	0.001
Nickel (Ni)	N.D.	0.020
Selenium (Se)	N.D.	0.005
Silver (Ag)	N.D.	0.005
Thallium (T1)	0.06	0.04
Zinc (Zn)	0.008	0.005

Method of Analysis: 3010/6010/7470

ChromaLab, Inc.

Jack Kelly

Analytical Chemist

Refaat Mankarious Inorganic Supervisor

CC

5 DAYS TURNAROUND

CHROMALAB, INC.

Environmental Laboratory (1094)

November 17, 1992

ChromaLab File # 1192080 A

Mobile Chem Labs, Inc.

Attn: David Levine

Date Sampled: Nov. 05, 1992 Date Extracted: Nov. 16, 1992 Date Submitted: Nov. 10, 1992 Date Analyzed: Nov. 17, 1992

Project Name: CEE TEXACO, ALAMEDA

Project Number: 1-15-1006

Sample I.D.: 112172

Method of Analysis: EPA 625

Matrix: water

	Sample	MDL	Spike		
COMPOUND NAME	mq/l	mq/l	Recovery		
PHENOL	N.D.	0.010			
BIS(2-CHLOROETHYL) ETHER	N.D.	0.010	90% 103%		
2-CHLOROPHENOL	N.D.	0.010			
1,3-DICHLOROBENZENE	N.D.	0.010			
1,4-DICHLOROBENZENE	N.D.	0.010			
BENZYL ALCOHOL	N.D.	0.020			
1,2-DICHLOROBENZENE	N.D.	0.010			
2-METHYLPHENOL	N.D.	0.010			
BIS (2-CHLOROISOPROPYL) ETHER	N.D.	0.010			
4-METHYLPHENOL	N.D.	0.010			
N-NITROSO-DI-N-PROPYLAMINE	N.D.	0.010			
HEXACHLOROETHANE	N.D.	0.010			
NITROBENZENE	N.D.	0.010			
ISOPHORONE	N.D.	0.010			
2-NITROPHENOL	N.D.	0.010			
2,4-DIMETHYLPHENOL	N.D.	0.010			
BENZOIC ACID	N.D.	0.050			
BIS (2-CHLOROETHOXY) METHANE	N.D.	0.010	101% 84%		
2,4-DICHLOROPHENOL	N.D.	0.010			
1,2,4-TRICHLOROBENZENE	N.D.	0.010			
NAPHTHALENE	N.D.	0.010			
4-CHLOROANILINE	N.D.	0.020			
HEXACHLOROBUTADIENE	N.D.	0.010			
4-CHLORO-3-METHYLPHENOL	N.D.	0.020			
2-METHYLNAPHTHALENE	N.D.	0.010			
HEXACHLOROCYCLOPENTADIENE	N.D.	0.010			
2,4,6-TRICHLOROPHENOL	N.D.	0.010			
2,4,5-TRICHLOROPHENOL	N.D.	0.010			
2-CHLORONAPHTHALENE	N.D.	0.010			
2-NITROANILINE	N.D.	0.050			
DIMETHYL PHTHALATE	N.D.	0.010			
ACENAPHTHYLENE	N.D.	0.010			
3-NITROANILINE	N.D.	0.050			
ACENAPHTHENE	N.D.	0.010	106% 110%		
2,4-DINITROPHENOL	N.D.	0.050			
4-NITROPHENOL	N.D.	0.050			
DIBENZOFURAN	N.D.	0.010			
(continued on next page)					

CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

Page 2

ChromaLab File # 1192080 A

Project Name: CEE TEXACO, ALAMEDA

Project No: 1-15-1006 Sample I.D.: 112172

Method of Analysis: EPA 625 Matrix: water

	Sample	MDL	Spike			
COMPOUND_NAME	mq/l	mg/l	Recovery			
2,4-DINITROTOLUENE	N.D.	0.010				
2,6-DINITROTOLUENE	N.D.	0.010	96% 102%			
DIETHYL PHTHALATE	N.D.	0.010				
4-CHLORO-PHENYL PHENYL ETHER	N.D.	0.010				
FLUORENE	N.D.	0.010				
4-NITROANILINE	N.D.	0.050				
4,6-DINITRO-2-METHYL PHENOL	N.D.	0.050				
N-NITROSODIPHENYLAMINE	N.D.	0.010				
4-BROMOPHENYL PHENYL ETHER	N.D.	0.010				
HEXACHLOROBENZENE	N.D.	0.010				
PENTACHLOROPHENOL	N.D.	0.050				
PHENANTHRENE	N.D.	0.010				
ANTHRACENE	N.D.	0.010				
DI-N-BUTYL PHTHALATE	N.D.	0.010				
FLUORANTHENE	N.D.	0.010				
PYRENE	N.D.	0.010				
BUTYLBENZYLPHTHALATE	N.D.	0.010				
3,3'-DICHLOROBENZIDINE	N.D.	0.020				
BENZO (A) ANTHRACENE	N.D.	0.010				
BIS (2-ETHYLHEXYL) PHTHALATE	N.D.	0.010				
CHRYSENE	N.D.	0.010	88% 103%			
DI-N-OCTYLPHTHALATE	N.D.	0.010				
BENZO (B) FLUORANTHENE	N.D.	0.010				
BENZO (K) FLUORANTHENE	N.D.	0.010				
BENZO (A) PYRENE	N.D.	0.010				
INDENO(1,2,3 C,D)PYRENE	N.D.	0.010				
DIBENZO (A, H) ANTHRACENE	N.D.	0.010				
BENZO(G,H,I)PERYLENE	N.D.	0.010				

ChromaLab, Inc.

Yiu Tam

Analytical Chemist

Eric Tam Lab Director

122147

CHAIN OF CUSTODY RECORD

PROJECT NO	- 1	- 1	- ~ 1		NAME & ADD		11.	, -	_	1	ANAL	YSES	REQ	UEST	ED (1)	
Pel 5	WITNES	SING AGE	NCY	/INSF	ECTOR NAME	40 E/DAT	E 9D	nede 1 EC 92	-5. -	coline) & (, & E	sel) &	Grease	ted HC's	111	tals	ip	REMARKS
10 NO	DATE	TIME	SOIL.	WATER			3 LOCA			TPH (Gasoline) 8 B. T, X, & E	TPH (Diesel) & B. T. X. & E	Total Oil & Grease	Halogenated HC's	B. T. X & E	Heavy Metals	28%	
W.8.mw.	9 DECS	1420			MU) (45	<i>3</i>							2	24 HR TAT on Cysucle per Chrs @ Mobil Chu
Ha Anguisha Alby	(Sigita	(ហេម)		Di	ate/Time	Recei	ived by	(Signaliu	ral .		Thada	llai-		- DE			See attached "Table 2" lor specific analysis method.
Fillinguished by	Option 1555 Date/Time Received by: (Signature) Relinquished by (Signature) Date/Time Received by: (Signature)			re)		The following MUST BE completed by the laboratory accepting for analysis: 1. Have all samples received for analysis been stored in ice? 2. Will samples remain refrigerated until analyzed? 3. Did any samples received for analysis have head space? 4. Were samples in appropriate containers and properly pack											
Relinquished by	(Signal	(0) 0)		. i	12 1533	Rec'd	/;	oratory by:	(Signati	JI θ)		Signalu					Title Date

CEECON ...



1850 Bates Ave., Suite D • Concord, CA 94520 • (510) 687-4947 • FAX (510) 687-2905

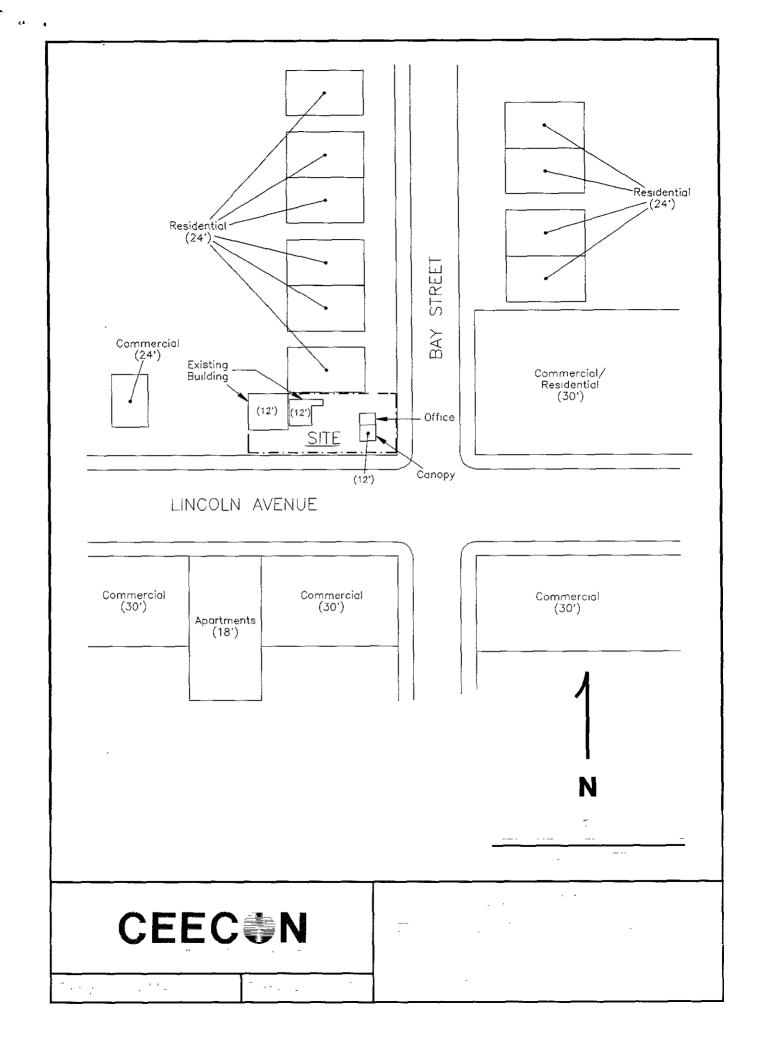
Mobile Chem Labs, Inc. 5021 Blum Road, Ste.3 Martinez, CA 94553

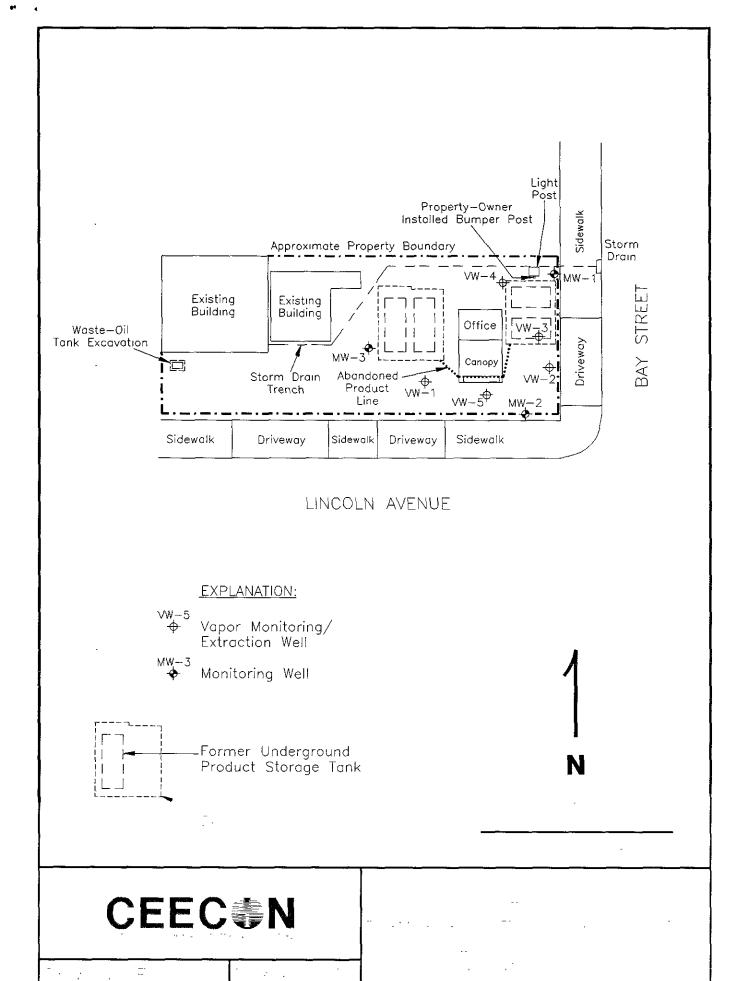
Project I.D. CEE #1/15/1006 & 1/5/1008

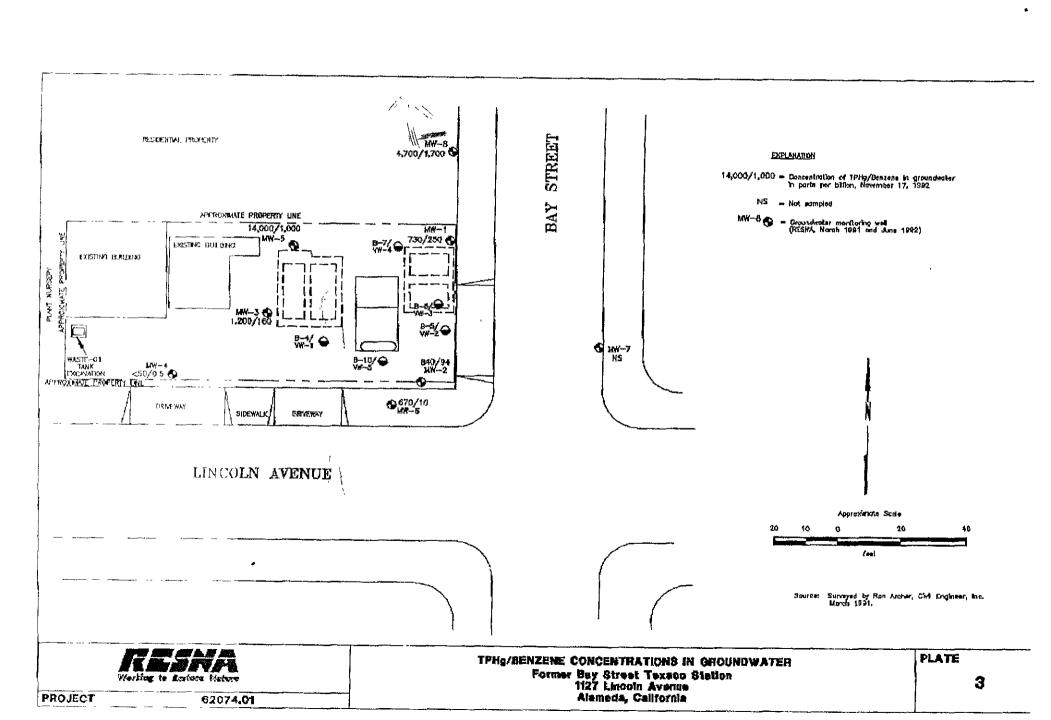
Date Sampled: 12/9/92 Date Received: 12/10/92 Date Analyzed: 12/10/92 Matrix: Waste Water

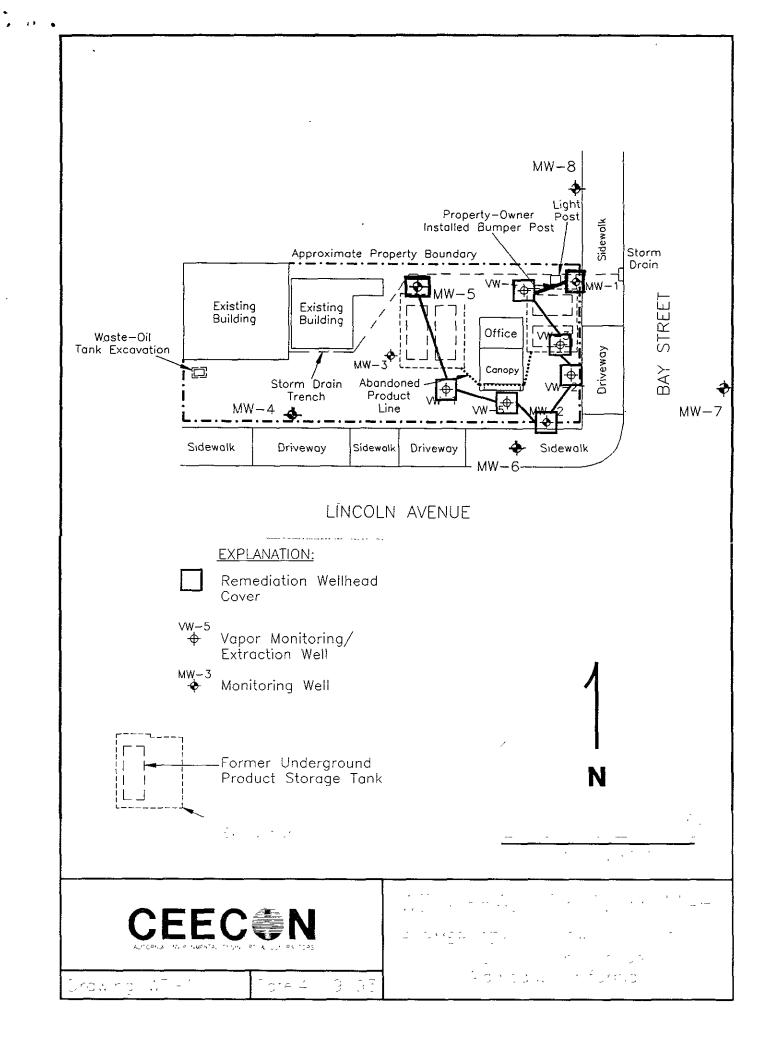
December 11, 1992 Job No. 921582 Sample No. 001-003 Cust. No. 10334

Client I.D.	Cyanide mg/L
001 122147	N.D.
002 122148	N.D.
003 122149'	N.D.
Detection Limit	0.01
Method No.:	4500E
Date Analyzed:	12/10/92

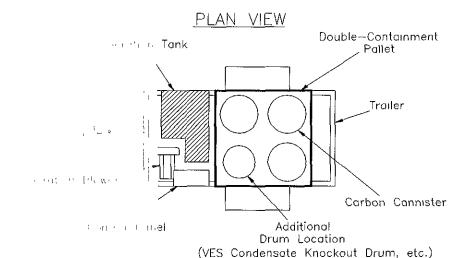








SIDE VIEW Control Panel Control Panel Carbon Cannister Carbon Cannister Control Panel Control Panel Double-Containment Pallet Grade



<u>Instrumentation Readouts</u>

Flow Meter Flow Totalizer Inlet High Pressure Switch Inlet High—High Pressure Switch Aeration Tank High—High Level Switch Activated Carbon High Pressure Switch

Sample Ports

Influent (Between Aeration Tank And First Carbon Cannister) Effluent (Between Carbon Cannisters) Easy Disconnects At Carbon Cannisters

Remote Signal Capabilities

Water Flow Total Water Flow On/Off Status



CEEC IN CALIFORNIA ENVIRONMENTAL ENGINEERS & CONTRACTORS

Drawing: GTS-1

Date: 5/1/92

Trailer-Mounted Groundwater Treatment System

