April 1, 1994

Ms. Jennifer Eberle
Alameda County
Health Care Services Agency
UST Local Oversight Program
80 Swan Way, Room 200
Oakland, California 94621

Re: **Submittal of the Quarterly Groundwater Monitoring and Soil Vapor Extraction Report**

Dear Ms. Eberle:

Enclosed is the quarterly report which summarizes the groundwater monitoring and vapor extraction activities conducted at the Safety-Kleen Service Center located at 400 Market Street in Oakland, California. This report covers the period from December 1993 through February 1994. Also included is information regarding the product recovery system installed in January 1993. If you have any questions, please call me at (310) 546-2082.

Sincerely,

Greg Hoehn for

Anne Lunt
Senior Project Manager - Remediation
Safety-Kleen Corporation

cc: Ms. Jane Spetalnick, Safety-Kleen Corporation
Mr. Gary Long, Safety-Kleen Corporation
Mr. Ray Orlando, Safety-Kleen Corporation
Mr. Alfred Wong, State of California Department of Health Services
Mr. Steven Ritchie, California Regional Water Quality Control Board
Mr. Scott Comiso, BAAQMD
Mr. Greg Hoehn, *SEACOR®*

SKOAKL02.L13
04/01/94
Job No. 70005-009-02

1000 NORTH RANDALL ROAD ELGIN, ILLINOIS 60123-7857 PHONE 708/697-8460 FAX 708/468-8500

April 1, 1994

Mr. Steven Ritchie
Executive Officer
California Regional Water Quality Control Board
San Francisco Bay Region
2101 Webster Street, Suite 500
Oakland, California 94612

Re: **Submittal of the Quarterly Groundwater Monitoring and Soil Vapor Extraction Report**

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Ms. Jennifer Eberle, Alameda County Department of Environmental Services
Mr. Scott Comiso, BAAQMD
Mr. Greg Hoehn, *SEACOR®*

SKOAKL02.L12
04/01/94
Job No. 70005-009-02

1000 NORTH RANDALL ROAD ELGIN, ILLINOIS 60123-7857 PHONE 708/697-8460 FAX 708/468-8500

SEACOR
Science & Engineering Analysis Corporation

QUARTERLY GROUNDWATER MONITORING AND SOIL VAPOR EXTRACTION REPORT

400 MARKET STREET
OAKLAND, CALIFORNIA

Job No. 70005-009-02

Submitted by
Science & Engineering Analysis Corporation

4-1-94 3279

for
Ms. Anne Lunt
Safety-Kleen Corp.
P.O. Box 1447
Manhattan Beach, CA 90266

April 1, 1994

Prepared by:

Greg D. Hoehn
Principal Geologist

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Exp. 6/94
No. 5435
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Reviewed by:

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1390 Willow Pass Road, Suite 360, Concord, CA 94520-5250 (510) 686-9780 Ph (510) 686-3099 Fax

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APPENDICES

1.0 INTRODUCTION

This report presents the results of groundwater monitoring and sampling activities conducted for the quarter of December 1993 through February 1994 at the Safety-Kleen Service Center located at 400 Market Street in Oakland, California (Figure 1 and Figure 2). Also included are results of operation of the soil vapor extraction (SVE) system.

2.0 PROJECT BACKGROUND INFORMATION

The Safety-Kleen Oakland Service Center is a local distribution center for Safety-Kleen products. Three single-walled underground storage tanks (USTs) were removed and replaced with two new 12,000 gallon double-walled tanks in June and July of 1990. Clean and spent mineral spirits are currently stored in the two double-walled USTs at the site. One UST is used to temporarily store spent mineral spirits prior to shipment to Safety-Kleen's Recycle Center in Reedley, California and one UST is used to store clean mineral spirits for distribution to Safety-Kleen customers.

During the single-walled tank removal, mineral spirits impacted soil was excavated from the tank pit as allowable by site conditions. Additionally, a product recovery well and a vapor extraction system withdrawal network were installed in the tank pit area. Tank removal and excavation activities are documented in the "Report of Underground Storage Tank Replacement Activities" dated September 1990. The product pumping system installed in recovery well (RW-1) to remove separate-phase product from the water table began operation on January 19, 1993. A soil vapor extraction (SVE) system to remediate residual hydrocarbons began full-scale operation on June 1, 1993.

The SVE system consists of seven horizontal vapor extraction lines and a vapor treatment system consisting of a Padre™ regenerative adsorption system manufactured by Purus, Inc. followed by a granular activated carbon (GAC) polish. Figure 3 depicts the layout of the vapor extraction lines and the vapor treatment system. A detailed description of the SVE system can be found in the report entitled "Quarterly Groundwater Monitoring and Soil Vapor Extraction Report" dated October 1, 1993. Prior to June 30, 1993, the SVE system startup and operation was conducted in accordance with the Bay Area Air Quality Management District (BAAQMD) Authority to Construct Permit dated March 4, 1993. System operation since June 30, 1993 has been conducted in accordance with the Permit to Operate dated June 30, 1993 and amended October 21, 1993.

The SVE system was monitored on a weekly basis from July 23, until November 10, 1993. On October 21, 1993, an air permit modification was issued by the BAAQMD to reduce the frequency of system monitoring events to bi-weekly intervals. Bi-weekly system monitoring was initiated on November 17, 1993.

3.0 SCOPE OF WORK

Work conducted during this quarter consisted of SVE and vapor treatment system operation, and the monitoring and sampling of groundwater monitor wells. The following sections provide a description of the work steps conducted.

3.1 SOIL VAPOR EXTRACTION SYSTEM

During each bi-weekly monitoring event, system influent, system effluent, stack effluent and each individual vapor extraction line were monitored with a photo-ionization detector (PID) to record system operating data and to document compliance with emission standards specified in the BAAQMD Permits.

Vapor samples were collected from the SVE system influent on December 10, 1993, January 4, February 2, and February 28, 1994. The analytical data are used to calculate mineral spirits removal data. All samples were collected in Tedlar bags and transported under chain-of-custody to a state-certified laboratory for analysis. Vapor samples were analyzed for benzene, toluene, ethylbenzene and xylenes (BTEX) by U.S. Environmental Protection Agency (EPA) Method 8020, total petroleum hydrocarbons as mineral spirits (TPHms) by modified EPA Method 8015, and purgeable halocarbons by EPA Method 8010.

3.2 RW-1 MINERAL SPIRITS RECOVERY

A mineral spirits recovery skimming pump began operation on January 19, 1993. Mineral spirits recovered from well RW-1 (Figure 2) is pumped directly to the waste mineral spirits tank operated at the site and is incorporated into the Safety-Kleen recycling process.

3.3 GROUNDWATER MONITORING AND SAMPLING

On January 19, 1994, all on- and off-site monitor wells (12 total) were monitored for depth-to-water using a water level indicator calibrated to 0.01-foot (Figure 2). The depth-to-water measurements were used with well survey data to construct a potentiometric surface map.

On January 19 and 20, 1994, the monitor wells were purged by hand bailing (except well MW-13 which is sampled on an annual basis and well MW-9 which contains free product) until approximately three well volumes of groundwater had been removed, or until measurements of pH, temperature, and

why? ok - bec MW8 is pw Above

conductivity had stabilized. Following recovery of the groundwater levels in the wells, groundwater samples were collected using disposable bailers. The groundwater samples were placed into 40 milliliter (ml) laboratory supplied sample containers and capped so that no air was trapped inside. Field data sheets which include depth-to-water measurements and well purge data are included in Appendix A.

The groundwater samples were labeled, placed on ice, and delivered to a state-certified laboratory for analysis under chain-of-custody documentation. The groundwater samples were analyzed for the presence of BTEX by EPA Method 8020, for TPHms by modified EPA Method 8015 and for purgeable halocarbons by EPA Method 8010.

Prior to using any equipment in a groundwater monitor well, the equipment was decontaminated by double-washing with a laboratory grade detergent in clean water, and triple-rinsed using deionized water. Purge water and decontamination water generated during well purging and sampling was placed in the waste mineral spirits tank or in labeled containers pending proper disposal.

which is it ?

4.0 RESULTS

4.1 SOIL VAPOR EXTRACTION SYSTEM

The results of SVE system daily, weekly and biweekly monitoring conducted through February 28, 1994 are summarized on Table 1. Table 1 presents data on the system flow rate and PID measurements from the Padre™ system influent, effluent and stack effluent. The results of monitoring the stack effluent document the system operated within the BAAQMD permit requirements of a maximum emission reading of 10 parts per million by volume (ppmv), based on PID readings.

The laboratory analyses of system influent samples detected TPHms concentrations of 170 $\mu g/\ell$ on December 10, 1993 and January 4, 1994, 1,100 $\mu g/\ell$ on February 2, 1994 and 234 $\mu g/\ell$ on February 28, 1994. Results of BTEX and purgeable halocarbon analyses of system influent samples detected 4 $\mu g/\ell$ xylenes on December 10, 1993; 2 $\mu g/\ell$ ethylbenzene, and 4 $\mu g/\ell$ xylenes on January 4, 1994; 2 $\mu g/\ell$ xylenes and 3 $\mu g/\ell$ 1,1,1-trichloroethane (1,1,1-TCA) on February 2, 1994; and 6 $\mu g/\ell$ xylenes and 0.8 $\mu g/\ell$ 1,1,1-TCA on February 28, 1994. Copies of vapor analytical reports are included as Appendix B.

The system monitoring data were used to calculate system mineral spirits removal rates and a cumulative mass of mineral spirits removed via vapor extraction. As shown on Table 2, analytical data collected through February 28, 1994 indicate 932.4 pounds (which equates to approximately 143 gallons) of mineral spirits have been removed. Approximately 380.9 gallons of liquid have been removed by the Padre™ system and incorporated into the Safety-Kleen recycling process through February 17, 1994 (Table 3). Based on vapor stream analytical data versus liquid hydrocarbon recovery mass balance calculations, approximately 62 percent of the liquid recovered by the Padre™ system is water and 38 percent mineral spirits.

4.2 RW-1 MINERAL SPIRITS RECOVERY

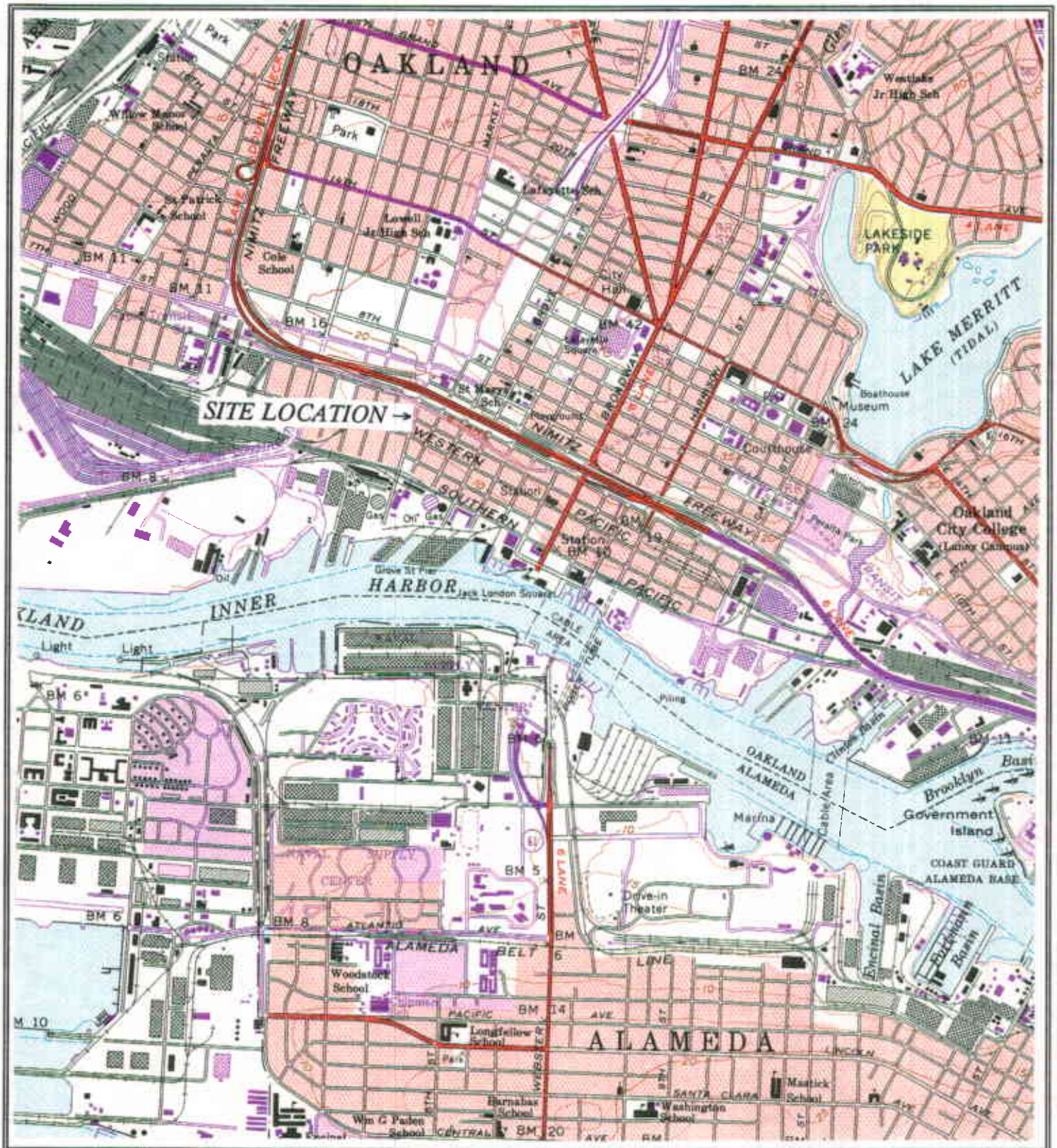
Product recovery data has been calculated to be 22.6 gallons during this reporting period. A total of 43.7 gallons of product have been removed since the pump was installed on January 19, 1993. Product recovery data are summarized on Table 4.

4.3 GROUNDWATER ELEVATIONS

Groundwater elevations and depth-to-water readings as measured on January 19, 1994 are presented on Table 5. The average water table elevation increased by 0.01-feet since the October 20, 1993 monitoring and sampling event. A potentiometric surface map prepared with the January 19, 1994 data is presented as Figure 4. The groundwater flow direction remains to the south, consistent with historic site data. The hydraulic gradient is an average of 0.004 across the site. This gradient is similar to the previous quarter's hydraulic gradient of 0.003 and is typical for the site.

4.4 GROUNDWATER CONDITIONS

No BTEX concentrations were detected above the laboratory detection limits in any of the ten groundwater samples collected on January 19 and 20, 1994. TPHms was reported in the samples collected from wells MW-4 and MW-8 at concentrations of 270 $\mu g/\ell$ and 60 $\mu g/\ell$, respectively; however, the laboratory indicated the results do not appear to be related to mineral spirits and are likely due to the VOCs detected in the EPA Method 8010 analysis. No concentrations of TPHms were detected in any of the remaining wells. Volatile organic compounds (VOCs) were detected in groundwater samples from six wells (MW-4, MW-5, MW-8, MW-10, MW-11 and MW-12). VOCs detected during this sampling event consisted of 1,1-dichloroethane (1,1-DCA), 1,2-dichloroethane (1,2-DCA), trichloroethene (TCE), chloroform, 1,2-dichloroethene (1,2-DCE), 1,1,1-trichloroethane (1,1,1-TCA), tetrachloroethene (PCE), 1,2-dichlorobenzene (1,2-DCB) and chlorobenzene. The presence of TCE in upgradient wells has been interpreted as the result of an off-site plume with a source unrelated to activities at the Safety-Kleen facility. Analytical test results showing compounds detected since the October 19, 1992 sampling event are presented in Table 6. Copies of the groundwater laboratory analytical reports are included in Appendix C.



DRAFTED BY:	CHECKED BY:	PROJECT NO. 70005-009-02	FIGURE 1	*SEACOR*
TS	GDH			1390 Willow Pass Road Suite 360 Concord, CA 94520
DWG. DATE:	REV. DATE:	Safety-Kleen Corporation 400 Market Street Oakland, California	Site Location Map	
12/14/92	12/14/92			
FILE NAME:				
OAKLAND2.F01				

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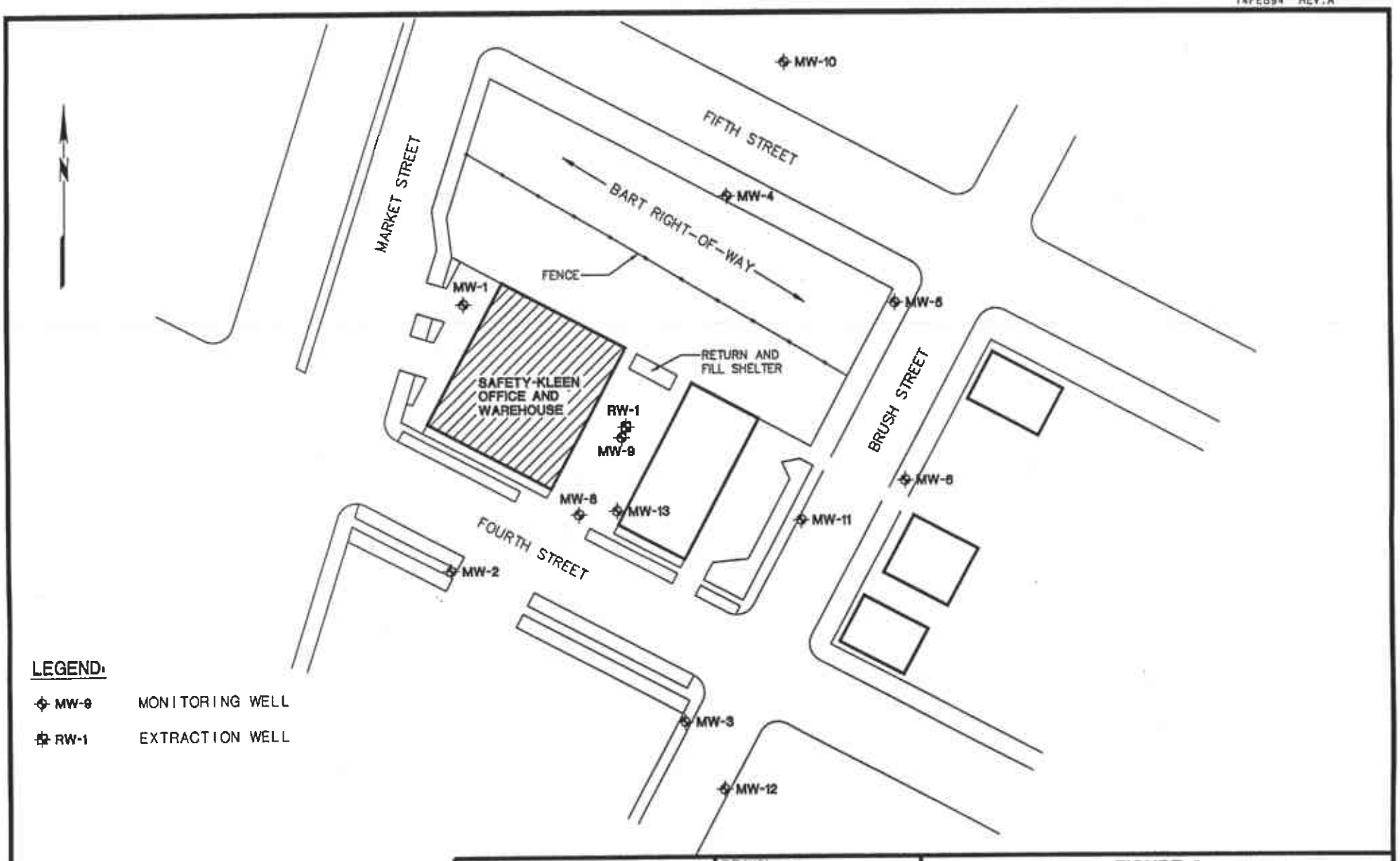

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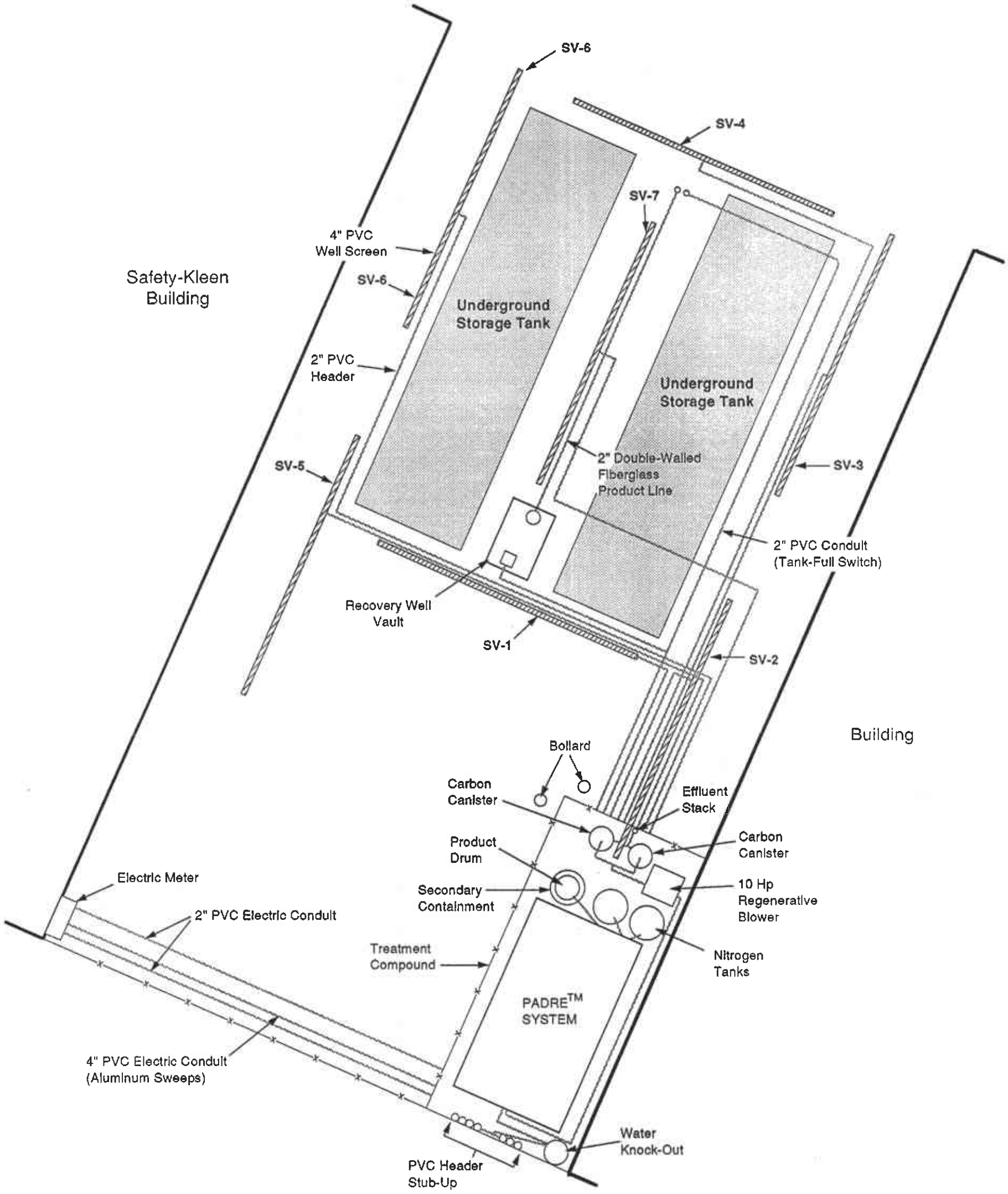
FIGURE 2
SAFETY-KLEEN
400 MARKET STREET
OAKLAND, CALIFORNIA
SITE PLAN



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0 10 Feet

DRAFTED BY: DH	CHECKED BY:	PROJECT NO. 70005-009	FIGURE 3	*SEACOR* 1390 Willow Pass Road Suite 360 Concord, CA 94520
DRWG. DATE:	REV. DATE:	**Safety-Kleen Service Center** 400 Market Street Oakland, California	**Soil Vapor Extraction System Layout**	
FILE NAME:				

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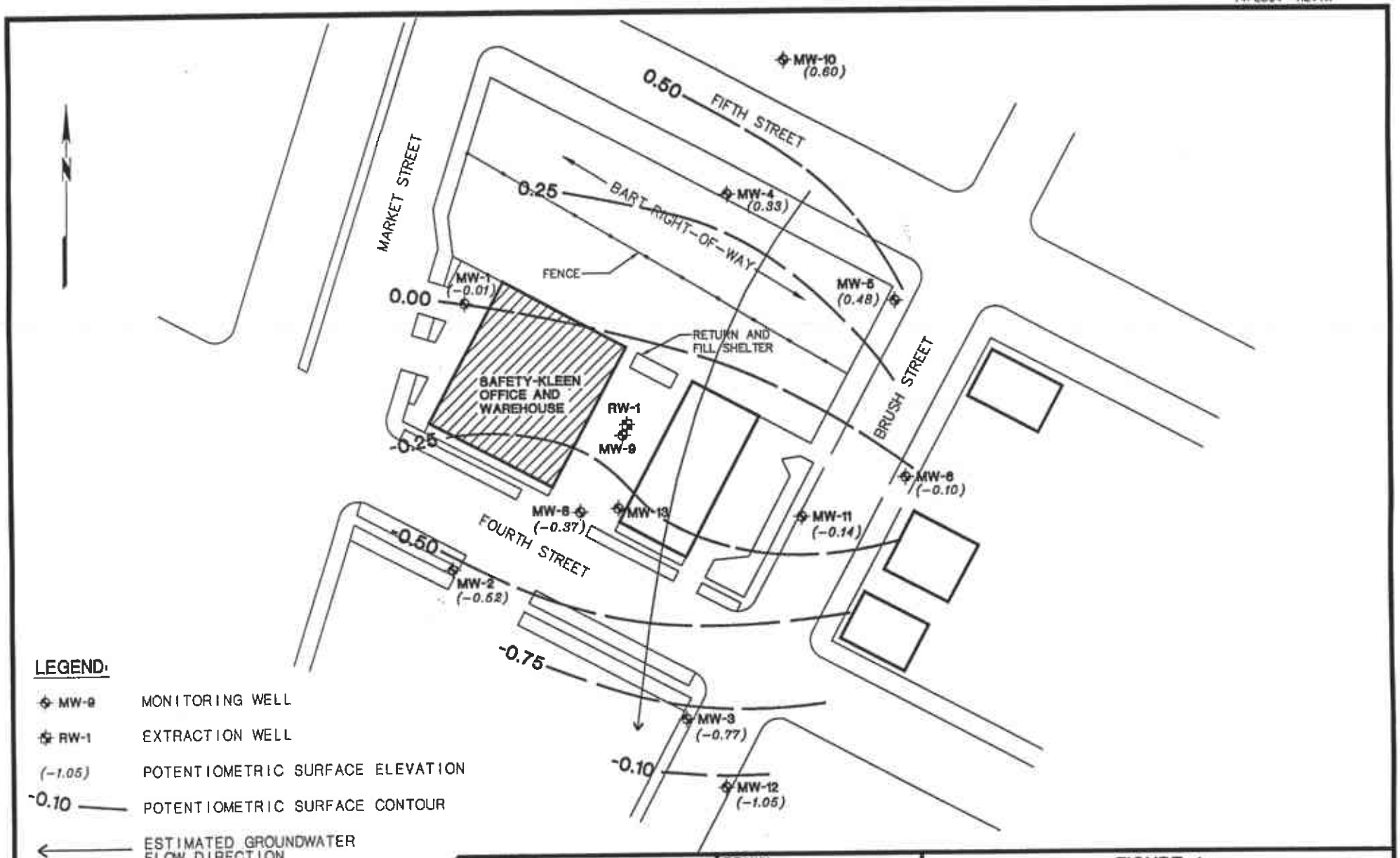
14FEB94 REV.A



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ENVIRONMENTAL ENGINEERING

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DATE	14FEB94
JOB NO.	70005-009

FIGURE 4
SAFETY-KLEEN
400 MARKET STREET
OAKLAND, CALIFORNIA
POTENTIOMETRIC SURFACE MAP
JANUARY 19, 1994

Table 1
Vapor Extraction System Monitoring Data

Date	Extraction Vacuum in. H20	Extraction Flowrate scfm	KO Vacuum in. H20(1)	Padre Influent (ppmv)	Padre Effluent (ppmv)	Stack Effluent (ppmv)	Sampler	Notes
05-27-93	2	114	22	40	4	0	GGA	24 hours run from 05/27-28
06-01-93	2.3	122	16	450	3	0.5	GGA	
06-02-93	3.25	123	16	200	1.5	3	GGA	
06-03-93	10	114	22	70	4	1.1	GGA	
06-04-93	10.5	114	22.5	80	2.5	1.5	RAR	Shut down for weekend
06-07-93	12	113	34	120	1	0.5	GGA	
06-08-93	10	117	22	300	1.5	0	GGA	
06-09-93	7	117	20	375	29	2	NAB	
06-10-93	8	117	22	400	6	0	NAB	
06-11-93	8	118	18	320	8	0	NAB	Shut down for weekend
06-14-93	8.5	118	18	250	11.75	3	NAB	
06-15-93	7	118	19	250	0.75	1	NAB	
06-16-93	7	117	18	200	0	0	NAB	
06-17-93	7	117	18	200	0	0	NAB	
06-18-93	6	118	19	300	10	8.5	NAB	Shut down for weekend
06-21-93	5.5	117	18	250	0	0.75	NAB	
06-22-93	5.5	117	18	290	0.5	0	NAB	
06-23-93	5	118	18	210	0	0	NAB	
06-24-93	5	118	18	200	0	0	NAB	Shut down on 6/25 and weekend
06-28-93	5	120	18	190	0	0	NAB	38.8 gallons removed on 6/25
06-29-93	4.5	117	18	150	0	0	NAB	
06-30-93	4	117	18	150	0	0	NAB	
07-07-93	4	117	18	250	0.5	0	NAB	
07-08-93	4	117	18	200	0	0.5	NAB	
07-09-93	5	120	18	200	0	0	NAB	Shut down for weekend
07-12-93	5	120	18	190	0	0	NAB	
07-13-93	5	118	18	160	0	1	NAB	Weekly monitoring to begin on 7/23
07-23-93	6	118	20	230	9	1	GGA	55.2 gallons removed on 7/23 (94.0 total)
07-27-93	6	120	19	300	3	3	NAB	
08-05-93	5.75	117	20	350	1.5	1	NAB	
08-11-93	5.8	118	24	125	6.4	7.6	RPR	Began monitoring with PID
08-20-93	6	118	24	113	12.6	9.3	RPR	35.5 gallons removed on 8/19 (129.5 total)
08-24-93	5.75	117	24	128	6	7.3	RPR	

(1) Knockout Pot Effluent Vacuum.

Table 1
Vapor Extraction System Monitoring Data

Date	Extraction Vacuum in. H20	Extraction Flowrate scfm	KO Vacuum in. H20(1)	Padre Influent (ppmv)	Padre Effluent (ppmv)	Stack Effluent (ppmv)	Sampler	Notes
09-01-93	5	117	2.3	141	0	1.5	RPR	
09-09-93	5.25	117	24	103	27.2	3.4	RPR	
09-16-93	6.5	117	26.5	144	6	6	RPR	45.4 gallons removed on 9/15 (174.9 total)
09-22-93	6.75	115	27.5	128	7	7	DEM	
09-30-93	7.5	115	27	129	6.8	4.6	RPR	29.7 gallons removed on 9/30 (204.6 total)
10-06-93	7.25	115	28	125	2.5	2	RPR	
10-13-93	9.5	123	28	145	0	0	GDH	
10-20-93	8.5	115	28	108	0	0	RAR	
10-25-93	8.5	115	28	124	0	0	RAR	42.9 gallons removed on 10/25 (247.5 total)
11-03-93	8.5	117	28	120	0	0	GDH	
11-10-93	7.75	115	27	104	1.2	0.8	RPR	
11-24-93	8.4	117	28.5	105	13	0	RPR	44.6 gallons removed on 11/24 (292.1 total)
12-10-93	17.5	110	32.5	65	0	0	RPR	Modifed system-vacuum on SV-1 and SV-5
12-22-93	16.75	110	37.5	61	0	0	RPR	31.8 gallons removed on 12/22 (323.9 total)
01-04-94	16.75	111	39	81	1.5	0	RAR	
01-19-94	15.5	110	38	87	0	0	RAR	31.4 gallons removed on 01/19 (355.5 total)
02-02-94	17.25	111	38	65	3.2	0	RPR	
02-17-94	16.5	110	37	38	0.1	0.5	RPR	25.6 gallons removed on 02/17 (380.9 total)
02-28-94	16.5	111	37	52	0.1	0.8	RPR	modified sys.-vacuum on SV-3, SV-4, SV-5

(1) Knockout Pot Effluent Vacuum.

TABLE 2
Vapor Extraction System Mineral Spirits Removal Data

DATE	ELAPSED OPERATING TIME (hours)	TPHms INFLUENT (ug/l)	FLOW RATE (cfm)	REMOVAL RATE (lbs/day)	TPHms REMOVED (lbs)
06-10-93	217	320	117	3.37	30.4
06-23-93	489.5	400	118	4.24	78.6
08-11-93	1339	570	118	6.05	292.6
09-09-93	1859	120	118	1.27	320.2
10-06-93	2381.5	410	115	4.24	412.5
11-10-93	3242.5	300	115	3.10	523.8
12-10-93	3727	170	110	1.68	557.7
01-04-94	4309.5	170	111	1.70	598.9
02-02-94	4893.5	1100	111	10.98	866.0
02-28-94	5576.5	234	111	2.33	932.4

TPHms = total petroleum hydrocarbons as mineral spirits
ug/l = micrograms per liter, or parts per billion
cfm = cubic feet per minute
lbs = pounds

TABLE 3
Liquid Recovery Data from Padre™ System

DATE	LIQUID RECOVERED THIS PERIOD (gallons)	CUMMULATIVE LIQUID RECOVERED (gallons)
06-25-93	38.80	38.8
07-23-93	55.20	94.0
08-19-93	35.50	129.5
09-15-93	45.40	129.5
09-30-93	29.70	204.6
10-25-93	42.90	247.5
11-24-93	44.60	292.1
12-22-93	31.80	323.9
01-19-94	31.40	355.3
02-17-94	25.58	380.9

TABLE 4
PRODUCT RECOVERY DATA
From Well RW-1

Date	*Product Recovered This Period (gallons)*	*Cummulative Product Recovered (gallons)*
01/19/93	-	-
02/25/93	6.5	6.5
05/20/93	4.3	10.8
08/27/93	-	10.8
10/24/93	10.3	21.1
02/28/94	22.6	43.7

TABLE 5 GROUNDWATER MONITORING DATA JANUARY 19, 1994					
Well I.D.	*TOC Elevation (ft msl)*	*DTW (ft)*	*DTP (ft)*	*PT (ft)*	*ADJ Elevation (ft msl)*
MW-1	7.99	8.00	-	-	-0.01
MW-2	8.20	8.72	-	-	-0.52
MW-3	6.66	7.43	-	-	-0.77
MW-4	10.32	9.99	-	-	0.33
MW-5	10.28	9.80	-	-	0.48
MW-6	8.97	9.07	-	-	-0.10
MW-8	7.80	8.17	-	-	-0.37
MW-9	8.21	* 9.16	* 8.58	* 0.58	* -0.49
MW-10	10.43	9.83	-	-	0.60
MW-11	7.91	8.05	-	-	-0.14
MW-12	6.74	7.79	-	-	-1.05
MW-13	8.08	8.73	-	-	-0.65

TOC	=	Top of casing
DTW	=	Depth-to-water
DTP	=	Depth-to-product (separate-phase hydrocarbons)
PT	=	product thickness
ADJ ELEVATION	=	Adjusted groundwater elevation.
ft msl	=	Measurement in feet (ft) relative to mean sea level (msl)
*	=	Measurement is approximate due to emulsion layer between groundwater and product

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02/04/94
Job No. 70005-009-02

TABLE 6
SUMMARY OF ANALYTICAL RESULTS OF GROUNDWATER SAMPLES
(Results in Parts Per Billion)

Compound	*MW-1*						*MW-2*					
	10/19/92	*1/20/93*	*4/20/93*	*7/29/93*	*10/21/93*	*01/20/94*	*10/19/92*	*1/20/93*	*4/20/93*	*7/30/93*	*10/21/93*	*01/20/94*
1,1-Dichloroethene	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethene	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	1.5	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	-	0.6	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	NA	-	-	-	-	-	NA	-	-	-	-	-
Toluene	NA	-	-	-	-	-	NA	-	-	-	-	-
Ethylbenzene	NA	-	-	-	-	-	NA	-	-	-	-	-
Xylenes	NA	-	-	-	-	-	NA	-	-	-	-	-
TPH as Mineral Spirits	-	-	-	-	-	-	-	-	-	-	-	-

- = Not Detected NA = Not Analyzed NS = Not Sampled

TABLE 6 - Continued
SUMMARY OF ANALYTICAL RESULTS OF GROUNDWATER SAMPLES
(Results in Parts Per Billion)

Compound	*MW-13*											
	10/19/92	*1/20/93*	*4/20/93*	*7/20/93*	*10/20/93*	*01/20/94*						
1,1-Dichloroethene	-	-	-	NS	NS	NS						
1,1-Dichloroethane	-	-	-	NS	NS	NS						
1,2-Dichloroethane	-	-	-	NS	NS	NS						
1,2-Dichloroethene	-	-	-	NS	NS	NS						
Chloroform	-	-	-	NS	NS	NS						
1,1,1-Trichloroethane	-	-	-	NS	NS	NS						
Trichloroethene	-	-	-	NS	NS	NS						
Chlorobenzene	-	-	-	NS	NS	NS						
1,2-Dichloropropane	-	-	-	NS	NS	NS						
Trichlorofluoromethane	-	-	-	NS	NS	NS						
Tetrachloroethene	-	-	-	NS	NS	NS						
1,2-Dichlorobenzene	-	-	-	NS	NS	NS						
Benzene	NA	0.5	-	NS	NS	NS						
Toluene	NA	0.4	-	NS	NS	NS						
Ethylbenzene	NA	0.3	-	NS	NS	NS						
Xylenes	NA	1	-	NS	NS	NS						
TPH as Mineral Spirits	-	-	-	NS	NS	NS						

- = Not Detected NA = Not Analyzed NS = Not Sampled

TABLE 6 - Continued
SUMMARY OF ANALYTICAL RESULTS OF GROUNDWATER SAMPLES
(Results in Parts Per Billion)

Compound	MW-3						MW-4					
	10/19/92	1/20/93	4/20/93	7/29/93	10/20/93	01/19/94	10/19/92	1/20/93	4/20/93	7/29/93	10/21/93	01/20/94
1,1-Dichloroethene	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	2.7	2.0	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	1.8	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethene	-	-	-	-	-	-	-	-	-	53	0.6	1.1
Chloroform	-	-	-	-	-	-	1.8	-	7.6	-	1.9	-
1,1,1-Trichloroethane	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	44	1.3	0.7	-	-	-	270	5500	2400	1100	-	790
Chlorobenzene	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	-	-	-	-	-	-	-	0.5	-	-	-	-
1,2-Dichlorobenzene	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	NA	-	-	-	-	-	NA	-	-	-	-	-
Toluene	NA	-	-	-	-	-	NA	-	-	-	-	-
Ethylbenzene	NA	-	-	-	-	-	NA	-	-	-	-	-
Xylenes	NA	0.5	-	-	-	-	NA	-	-	-	-	-
TPH as Mineral Spirits	-	-	-	-	-	-	-	-	-	-	* 400	* 270

- = Not Detected NA = Not Analyzed NS = Not Sampled

NOTE: * The TPH as mineral spirits result is the result of an unknown hydrocarbon(s).

TABLE 6 - Continued
SUMMARY OF ANALYTICAL RESULTS OF GROUNDWATER SAMPLES
(Results in Parts Per Billion)

Compound	*MW-5*						*MW-6*					
	10/19/92	*1/20/93*	*4/20/93*	*7/29/93*	*10/20/93*	*01/20/94*	*10/19/92*	*1/20/93*	*4/20/93*	*7/29/93*	*10/20/93*	*01/19/94*
1,1-Dichloroethene	-	-	1.5	0.6	-	-	-	-	-	-	-	-
1,1-Dichloroethane	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethene	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform	-	-	-	-	-	4.3	-	-	-	-	-	-
1,1,1-Trichloroethane	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	3.7	11	4.0	6.0	12	-	1.5	1.8	-	5.0	1.3	-
Chlorobenzene	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane	-	-	18	19	-	-	-	-	-	-	-	-
Tetrachloroethene	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	NA	-	-	-	-	-	NA	-	-	-	-	-
Toluene	NA	-	-	-	-	-	NA	-	-	-	-	-
Ethylbenzene	NA	-	-	-	-	-	NA	-	-	-	-	-
Xylenes	NA	-	-	-	-	-	NA	-	-	-	-	-
TPH as Mineral Spirits	-	-	-	-	-	-	-	-	-	-	-	-

- = Not Detected NA = Not Analyzed NS = Not Sampled

TABLE 6 - Continued
SUMMARY OF ANALYTICAL RESULTS OF GROUNDWATER SAMPLES
(Results in Parts Per Billion)

Compound	*MW-8*						*MW-10*					
	10/19/92	*1/20/93*	*4/20/93*	*7/30/93*	*10/21/93*	*01/20/94*	*10/19/92*	*1/20/93*	*4/20/93*	*7/30/93*	*10/21/93*	*01/19/94*
1,1-Dichloroethene	-	-	-	-	-	-	1.4	-	-	2.0	-	-
1,1-Dichloroethane	0.7	-	3.4	-	-	8.6	-	-	-	-	-	-
1,2-Dichloroethane	3.3	-	7.4	5.0	5.2	11	-	-	-	-	-	-
1,2-Dichloroethene	-	-	-	1.0	-	-	-	-	-	17	3.0	0.4
Chloroform	-	-	-	-	-	-	1.1	-	1.2	0.5	-	-
1,1,1-Trichloroethane	-	-	-	-	-	2.5	-	-	-	0.8	-	-
Trichloroethene	14	1.4	14	31	15	22	86	53	45	54	42	67
Chlorobenzene	4.5	-	11	-	5.4	16	-	-	-	-	-	-
1,2-Dichloropropane	-	-	0.6	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	-	-	1.8	-	-	2.0	-	-	-	-	-	-
1,2-Dichlorobenzene	1.9	-	2.6	-	-	4.8	-	-	-	-	-	-
Benzene	NA	-	-	-	-	-	NA	-	-	-	-	-
Toluene	NA	-	-	-	-	-	NA	-	-	-	-	-
Ethylbenzene	NA	-	-	-	-	-	NA	-	-	-	-	-
Xylenes	NA	-	-	-	-	-	NA	-	-	-	-	-
TPH as Mineral Spirits	-	-	-	-	-	* 60	-	-	-	-	-	-

- = Not Detected NA = Not Analyzed NS = Not Sampled

NOTE: * The TPH as mineral spirits result is the result of an unknown hydrocarbon(s).

TABLE 6 - Continued
SUMMARY OF ANALYTICAL RESULTS OF GROUNDWATER SAMPLES
(Results in Parts Per Billion)

Compound	*MW-11*						*MW-12*					
	10/19/92	*1/20/93*	*4/20/93*	*7/30/93*	*10/21/93*	*01/19/94*	*10/19/92*	*1/20/93*	*4/20/93*	*7/30/93*	*10/20/93*	*01/19/94*
1,1-Dichloroethene	1.9	-	-	2.0	-	-	-	-	-	-	-	-
1,1-Dichloroethane	-	-	-	-	-	-	2.9	-	2.6	2.0	-	2.3
1,2-Dichloroethane	-	-	-	-	-	-	1.5	-	-	2.0	-	1.2
1,2-Dichloroethene	14	-	-	3.0	-	-	-	-	-	3.0	-	-
Chloroform	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	1.2	-	-	2.0	-	-	-	-	-	-	-	-
Trichloroethene	77	47	9.1	36	11	2.6	4	22	17	30	34	11
Chlorobenzene	-	-	-	-	-	-	2.0	-	-	-	-	-
1,2-Dichloropropane	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	NA	-	-	-	-	-	NA	-	-	-	-	-
Toluene	NA	-	-	-	-	-	NA	-	-	-	-	-
Ethylbenzene	NA	-	-	-	-	-	NA	-	-	-	-	-
Xylenes	NA	-	-	-	-	-	NA	-	-	-	-	-
TPH as Mineral Spirits	-	-	-	-	-	-	-	-	-	-	-	-

- = Not Detected NA = Not Analyzed NS = Not Sampled

APPENDIX A
FIELD DATA SHEETS

SEACON — HYDROLOGIC DATA SHEET

DATE: 1/19 PROJECT: SALEM KLEEN, OAK PROJECT # 70005-009-01

EVENT: Sampling SAMPLER: RR

WELL OR LOCATION	TIME	MEASUREMENT					COMMENTS
		TOC	DTW	DTP	PT	ELEV	
MW-1	7:33		8.00				
MW-10	7:42		9.83				
MW-4	7:49		9.99				
MW-5	7:55		9.80				
MW-6	8:00		9.09				
MW-11	8:03		8:05				
MW-12	6:07		7.79				BROKEN WELL CAP.
MW-3	8:10		7.43				
MW-2	8:17		8.72				NO LOCKING CAP NO LOCK.
MW-8	8:22		8:17				
MW-13	8:36		8.73				
MW-9	8:43		9.16		9" free product		CAP BROKEN -- NO LOCK.
RW-1?							
						5	

CODES: TOC - TOP OF CASING (FEET, RELATIVE TO MEAN SEA LEVEL)
DTW - DEPTH TO WATER (FEET)
DTP - DEPTH TO PRODUCT (FEET)
PT - PRODUCT THICKNESS (FEET)
ELEV - GROUNDWATER ELEVATION (FEET, RELATIVE TO MEAN SEA LEVEL)

SEACOR
WATER SAMPLE FIELD DATA SHEET

WELL ID: MW-1
SAMPLE ID: MW-1
CLIENT NAME: SHELL KLEEN
LOCATION: OAKLAND

PROJECT NO: 70005-009-01
PURGED BY: DH
SAMPLED BY: DH

TYPE: Groundwater ✓ Surface Water ____ Treatment Effluent ____ Other ____

CASING DIAMETER (inches): 2 ✓ 3 ____ 4 ____ 4.5 ____ 6 ____ Other ____

CASING ELEVATION: (feet/MSL):		VOLUME IN CASING (gal)	1.94
DEPTH TO WATER (feet):	8.00	CALCULATED PURGE (gal)	5.82
DEPTH OF WELL (feet):	19.91	ACTUAL PURGE VOL. (gal)	6.0

DATE PURGED: 1/20/94 Start (2400 Hr) 11:04 End (2400 Hr.) 11:20
DATE SAMPLED: 1/20/94 Start (2400 Hr) 11:30 End (2400 Hr.) ____

FIELD QC SAMPLES COLLECTED AT THIS WELL (i.e. FB-1, X-DUP-1): ____

FIELD MEASUREMENTS

TIME (2400 Hr)	VOLUME (gal)	pH (units)	E.C. (umhos/cm@25°C)	TEMPERATURE (°F)	COLOR (visual)	TURBIDITY (NTU)
11:07	2	7.7	1115	60.2	TAN	SLIGHT
11:13	4.5	7.7	1018	61.5	"	"
11:18	6.5	7.6	931	62.1		

D.O. (ppm): ____ COLOR, COBALT (0-100): ____

Clear
Cloudy
Yellow
Brown

ODOR: ____

PURGING EQUIPMENT

____	2" Bladder Pump	____	Bailer(Teflon®)
____	Centrifugal Pump	✓	Bailer (PVC)
____	Submersible Pump	____	Bailer (Stainless Steel)
____	Well Wizard™	____	Dedicated

Other: ____

SAMPLING EQUIPMENT

____	2" Bladder Pump	____	Bailer(Teflon®)
____	DDL Sampler	✓	Bailer (PVC)(disposable)
____	Submersible Pump	____	Bailer (Stainless Steel)
____	Well Wizard™	____	Dedicated

Other: ____

WELL INTEGRITY: OK LOCK #: 3210

REMARKS:
A LOT OF SILT IN WELL
MEASURED 9.31 @ 11:22 AM

SIGNATURE: AN Page 1 of 1

SEACOR
WATER SAMPLE FIELD DATA SHEET

WELL ID: MW-2
SAMPLE ID: MW-2
CLIENT NAME: SAFETY KLEEN
LOCATION: OAKLAND

PROJECT NO: 70005-009-01
PURGED BY: DL
SAMPLED BY: DL

TYPE: Groundwater ✓ Surface Water ____ Treatment Effluent ____ Other ____

CASING DIAMETER (inches): 2 ✓ 3 ____ 4 ____ 4.5 ____ 6 ____ Other ____

CASING ELEVATION: (feet/MSL):	____	VOLUME IN CASING (gal)	3.3K
DEPTH TO WATER (feet):	6.72	CALCULATED PURGE (gal)	10.01
DEPTH OF WELL (feet):	19.20	ACTUAL PURGE VOL. (gal)	11

DATE PURGED: 1/20/94 Start (2400 Hr) 10:17 End (2400 Hr.) 10:37
DATE SAMPLED: 1/20/94 Start (2400 Hr) 10:45 End (2400 Hr.) ____

FIELD QC SAMPLES COLLECTED AT THIS WELL (i.e. FB-1, X-DUP-1): ____

FIELD MEASUREMENTS

TIME (2400 Hr)	VOLUME (gal)	pH (units)	E.C. (umhos/cm@25°C)	TEMPERATURE (°F)	COLOR (visual)	TURBIDITY (NTU) VISUAL
10:23	3.5	7.8	533	59.6	TAN	SLIGHT
10:30	7.5	7.9	590	62.5	"	"
10:36	11	7.6	611	63.1	"	"

D.O. (ppm): ____ COLOR, COBALT (0-100): ____

Clear
Cloudy
Yellow
Brown

ODOR: ____

PURGING EQUIPMENT

___	2" Bladder Pump	___	Bailer(Teflon®)
___	Centrifugal Pump	✓	Bailer (PVC)
___	Submersible Pump	___	Bailer (Stainless Steel)
___	Well Wizard™	___	Dedicated

Other: ____

SAMPLING EQUIPMENT

___	2" Bladder Pump	___	Bailer(Teflon®)
___	DDL Sampler	✓	Bailer (PVC)disposable)
___	Submersible Pump	___	Bailer (Stainless Steel)
___	Well Wizard™	___	Dedicated

Other: ____

WELL INTEGRITY: OK. LOCK #: NO LOCK.

REMARKS:
MEASURED 9.91 @ 10:40 AM

SIGNATURE: [signature] Page 1 of 1

SEACOR
WATER SAMPLE FIELD DATA SHEET

WELL ID: MW-3
SAMPLE ID: MW-3
CLIENT NAME: SAFETY KLEEN
LOCATION: OAKLAND

PROJECT NO: 70005-009-01
PURGED BY: [illegible]
SAMPLED BY: [illegible]

TYPE: Groundwater ✓ Surface Water ____ Treatment Effluent ____ Other ____

CASING DIAMETER (inches): 2 ✓ 3 ____ 4 ____ 4.5 ____ 6 ____ Other ____

CASING ELEVATION: (feet/MSL):		VOLUME IN CASING (gal)	3.57
DEPTH TO WATER (feet):	7.43	CALCULATED PURGE (gal)	10.71
DEPTH OF WELL (feet):	29.34	ACTUAL PURGE VOL. (gal)	11.5

DATE PURGED: 1/19/94 Start (2400 Hr) 13:55 End (2400 Hr.) 14:19
DATE SAMPLED: 1/19/94 Start (2400 Hr) 14:35 End (2400 Hr.) ____

FIELD QC SAMPLES COLLECTED AT THIS WELL (i.e. FB-1, X-DUP-1): ____

FIELD MEASUREMENTS

TIME (2400 Hr)	VOLUME (gal)	pH (units)	E.C. (umhos/cm@25°C)	TEMPERATURE (°F)	COLOR (visual)	TURBIDITY (NTU)
14:03	4	8.0	431	63.1	TAN	SLIGHT
14:11	8	7.7	418	62.8	"	"
14:18	11.5	7.7	463	62.5	"	"

D.O. (ppm): ____ COLOR, COBALT (0-100): ____

Clear
Cloudy
Yellow
Brown

ODOR: ____

PURGING EQUIPMENT

___	2" Bladder Pump	___	Bailer(Teflon®)
___	Centrifugal Pump	✓	Bailer (PVC)
___	Submersible Pump	___	Bailer (Stainless Steel)
___	Well Wizard™	___	Dedicated

Other: ____

SAMPLING EQUIPMENT

___	2" Bladder Pump	___	Bailer(Teflon®)
___	DDL Sampler	✓	Bailer (PVC/disposable)
___	Submersible Pump	___	Bailer (Stainless Steel)
___	Well Wizard™	___	Dedicated

Other: ____

WELL INTEGRITY: OK LOCK #: 3210

REMARKS:
MEASURED 8.05 @ 14:27 pm

SIGNATURE: [signature] Page 1 of 1

SEACOR
WATER SAMPLE FIELD DATA SHEET

WELL ID: MW-4
SAMPLE ID: MW-4
CLIENT NAME: SAFETY KLEEN
LOCATION: OAKLAND, C

PROJECT NO: 70005-009-01
PURGED BY: NA
SAMPLED BY: NA

TYPE: Groundwater ✓ Surface Water ____ Treatment Effluent ____ Other ____

CASING DIAMETER (inches): 2 ✓ 3 ____ 4 ____ 4.5 ____ 6 ____ Other ____

CASING ELEVATION: (feet/MSL):		VOLUME IN CASING (gal.)	2.52
DEPTH TO WATER (feet):	9.99	CALCULATED PURGE (gal.)	7.56
DEPTH OF WELL (feet):	25.45	ACTUAL PURGE VOL. (gal.)	8

DATE PURGED: 1/20/94 Start (2400 Hr) 8:38 End (2400 Hr.) 8:52
DATE SAMPLED: 1/20/94 Start (2400 Hr) 9:05 End (2400 Hr.) ____

FIELD QC SAMPLES COLLECTED AT THIS WELL (i.e. FB-1, X-DUP-1): ____

FIELD MEASUREMENTS

TIME (2400 Hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm@25°C)	TEMPERATURE (°F)	COLOR (visual)	TURBIDITY (NTU) VISUAL
8:42	3	7.7	773	59.9	TAN	SLIGHT
8:46	5	7.1	780	61.7	"	"
8:51	8	7.1	771	61.6	"	"

D.O. (ppm): ____ COLOR, COBALT (0-100): ____

Clear
Cloudy
Yellow
Brown

ODOR: ____

PURGING EQUIPMENT

___	2" Bladder Pump	___	Bailer(Teflon®)
___	Centrifugal Pump	✓	Bailer (PVC)
___	Submersible Pump	___	Bailer (Stainless Steel)
___	Well Wizard™	___	Dedicated

Other: ____

SAMPLING EQUIPMENT

___	2" Bladder Pump	___	Bailer(Teflon®)
___	DDL Sampler	✓	Bailer (PVC/disposable)
___	Submersible Pump	___	Bailer (Stainless Steel)
___	Well Wizard™	___	Dedicated

Other: ____

WELL INTEGRITY: OK LOCK #: 3210

REMARKS: MEASURED 10.54 @ 8:55 AM.

SIGNATURE: [signature] Page 1 of 1

SEACOR
WATER SAMPLE FIELD DATA SHEET

PROJECT NO: 70005-009-01
PURGED BY: [illegible]
SAMPLED BY: [illegible]

WELL ID: MW-5
SAMPLE ID: MW-5
CLIENT NAME: SAFEWAY INC.
LOCATION: OAKLAND

TYPE: Groundwater ✓ Surface Water ____ Treatment Effluent ____ Other ____

CASING DIAMETER (inches): 2 ✓ 3 ____ 4 ____ 4.5 ____ 6 ____ Other ____

CASING ELEVATION: (feet/MSL):		VOLUME IN CASING (gal.)	3.13
DEPTH TO WATER (feet):	9.80	CALCULATED PURGE (gal.)	9.39
DEPTH OF WELL (feet):	29.00	ACTUAL PURGE VOL. (gal.)	10

DATE PURGED: 1/20/94 Start (2400 Hr) 9:21 End (2400 Hr.) 9:40
DATE SAMPLED: 1/20/94 Start (2400 Hr) 9:55 End (2400 Hr.) ____

FIELD QC SAMPLES COLLECTED AT THIS WELL (i.e. FB-1, X-DUP-1): ____

FIELD MEASUREMENTS

TIME (2400 Hr)	VOLUME (gal)	pH (units)	E.C. (umhos/cm@25°C)	TEMPERATURE (°F)	COLOR (visual)	TURBIDITY (NTU) – VISUAL
9:26	3	7.6	754	57.1	TAN	SLIGHT
9:34	7	7.7	781	59.5	"	"
9:39	10	7.6	791	60.1	"	"

D.O. (ppm): ____ COLOR, COBALT (0-100): ____

Clear
Cloudy
Yellow
Brown

ODOR: ____

PURGING EQUIPMENT

___	2" Bladder Pump	___	Bailer(Teflon®)
___	Centrifugal Pump	✓	Bailer (PVC)
___	Submersible Pump	___	Bailer (Stainless Steel)
___	Well Wizard™	___	Dedicated

Other: ____

SAMPLING EQUIPMENT

___	2" Bladder Pump	___	Bailer(Teflon®)
___	DDL Sampler	✓	Bailer (PVC/disposable)
___	Submersible Pump	___	Bailer (Stainless Steel)
___	Well Wizard™	___	Dedicated

Other: ____

WELL INTEGRITY: OK LOCK #: 3210

REMARKS:
MEASURED 9.96 @ 9:48 AM

SIGNATURE: [signature] Page 1 of 1

SEACOR
WATER SAMPLE FIELD DATA SHEET

WELL ID: MW-6
SAMPLE ID: MW-6
CLIENT NAME: SAFETY KLEEN
LOCATION: OAKLAND, -

PROJECT NO: 70005-009-01
PURGED BY: AA
SAMPLED BY: AA, -

TYPE: Groundwater ✓ Surface Water ____ Treatment Effluent ____ Other ____

CASING DIAMETER (inches): 2 ✓ 3 ____ 4 ____ 4.5 ____ 6 ____ Other ____

CASING ELEVATION: (feet/MSL):		VOLUME IN CASING (gal)	3.23
DEPTH TO WATER (feet):	9.07	CALCULATED PURGE (gal)	9.70
DEPTH OF WELL (feet):	28.91	ACTUAL PURGE VOL. (gal)	10

DATE PURGED: 1/19/94 Start (2400 Hr) 12:56 End (2400 Hr.) 13:22
DATE SAMPLED: 1/19/94 Start (2400 Hr) 13:35 End (2400 Hr.) ____

FIELD QC SAMPLES COLLECTED AT THIS WELL (i.e. FB-1, X-DUP-1): ____

FIELD MEASUREMENTS

TIME (2400 Hr)	VOLUME (gal)	pH (units)	E.C. (umhos/cm@25°C)	TEMPERATURE (°F)	COLOR (visual)	TURBIDITY (NTU's VISUAL)
13:02	3	7.9	502	63.1	TAN	SLIGHTLY
13:09	7	7.5	506	61.8	"	"
13:21	10	7.2	543	64.3	"	"

D.O. (ppm): ____ COLOR, COBALT (0-100): ____

ODOR: ____

Clear
Cloudy
Yellow
Brown

PURGING EQUIPMENT

____	2" Bladder Pump	____	Bailer(Teflon®)
____	Centrifugal Pump	✓	Bailer (PVC)
____	Submersible Pump	____	Bailer (Stainless Steel)
____	Well Wizard™	____	Dedicated

Other: ____

SAMPLING EQUIPMENT

____	2" Bladder Pump	____	Bailer(Teflon®)
____	DDL Sampler	✓	Bailer (PVC/disposable)
____	Submersible Pump	____	Bailer (Stainless Steel)
____	Well Wizard™	____	Dedicated

Other: ____

WELL INTEGRITY: OK. - LOCK #: 3210

REMARKS:
PURGED 1.15 @ 13:28

SIGNATURE: AA Page 1 of 1

SEACOR
WATER SAMPLE FIELD DATA SHEET

WELL ID: MW-8
SAMPLE ID: MW-8
CLIENT NAME: SAFETY KLEEN
LOCATION: OAKLAND.

PROJECT NO: 70205-009-01
PURGED BY: [illegible]
SAMPLED BY: [illegible]

TYPE: Groundwater ✓ Surface Water ____ Treatment Effluent ____ Other ____

CASING DIAMETER (inches): 2 ✓ 3 ____ 4 ____ 4.5 ____ 6 ____ Other ____

CASING ELEVATION: (feet/MSL):		VOLUME IN CASING (gal.)	3.38
DEPTH TO WATER (feet):	8.17	CALCULATED PURGE (gal.)	10.14
DEPTH OF WELL (feet):	23.90	ACTUAL PURGE VOL. (gal.)	11

DATE PURGED: 1/20/94 Start (2400 Hr) 12:10 End (2400 Hr.) 12:31
DATE SAMPLED: 1/20/94 Start (2400 Hr) 12:45 End (2400 Hr.) ____

FIELD QC SAMPLES COLLECTED AT THIS WELL (i.e. FB-1, X-DUP-1): ____

FIELD MEASUREMENTS

TIME (2400 Hr.)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm@25°C)	TEMPERATURE (°F)	COLOR (visual)	TURBIDITY (NTU) VISUAL
12:17	4.5	8.1	479	60.1	TAN	SLIGHT
12:24	8	8.0	502	62.1	"	"
12:30	11	7.6	485	62.4	"	"

D.O. (ppm): ____ COLOR, COBALT (0-100): ____

Clear
Cloudy
Yellow
Brown

ODOR: ____

PURGING EQUIPMENT

___	2" Bladder Pump	___	Bailer(Teflon®)
___	Centrifugal Pump	✓	Bailer (PVC)
___	Submersible Pump	___	Bailer (Stainless Steel)
___	Well Wizard™	___	Dedicated

Other: ____

SAMPLING EQUIPMENT

___	2" Bladder Pump	___	Bailer(Teflon®)
___	DDL Sampler	✓	Bailer (PVC)(disposable)
___	Submersible Pump	___	Bailer (Stainless Steel)
___	Well Wizard™	___	Dedicated

Other: ____

WELL INTEGRITY: OK. LOCK #: 3210

REMARKS:
SHEEN ON THE SURFACE OF THE WATER
MEASURED 8.24 @ 12:39 PM.

SIGNATURE: [signature] Page 1 of 1

SEACOR
WATER SAMPLE FIELD DATA SHEET

WELL ID: MW-10
SAMPLE ID: MW-10
CLIENT NAME: SAFETY KLEEN
LOCATION: OAKLAND

PROJECT NO: 70005-009-01
PURGED BY: AA
SAMPLED BY: AA

TYPE: Groundwater ✓ Surface Water ____ Treatment Effluent ____ Other ____

CASING DIAMETER (inches): 2 ✓ 3 ____ 4 ____ 4.5 ____ 6 ____ Other ____

CASING ELEVATION: (feet/MSL):		VOLUME IN CASING (gal)	3.19
DEPTH TO WATER (feet):	9.83	CALCULATED PURGE (gal)	9.56
DEPTH OF WELL (feet):	29.38	ACTUAL PURGE VOL. (gal)	10

DATE PURGED: 1/19/94 Start (2400 Hr) 11:45 End (2400 Hr.) 12:03
DATE SAMPLED: 1/19/94 Start (2400 Hr) 12:15 End (2400 Hr.) ____

FIELD QC SAMPLES COLLECTED AT THIS WELL (i.e. FB-1, X-DUP-1): NONE --

FIELD MEASUREMENTS

TIME (2400 Hr)	VOLUME (gal)	pH (units)	E.C. (umhos/cm@25°C)	TEMPERATURE (°F)	COLOR (visual)	TURBIDITY (NTU)
11:50	3	7.6	888	61.3	YELLOW	SLIGHTLY
11:56	7	7.4	878	62.3	"	"
12:02	10	7.2	884	62.7	"	"

D.O. (ppm): ____ COLOR, COBALT (0-100): ____

Clear
Cloudy
Yellow
Brown

ODOR: ____

PURGING EQUIPMENT

____	2" Bladder Pump	____	Bailer(Teflon®)
____	Centrifugal Pump	✓	Bailer (PVC)
____	Submersible Pump	____	Bailer (Stainless Steel)
____	Well Wizard™	____	Dedicated

Other: ____

SAMPLING EQUIPMENT

____	2" Bladder Pump	____	Bailer(Teflon®)
____	DDL Sampler	✓	Bailer (PVC/disposable)
____	Submersible Pump	____	Bailer (Stainless Steel)
____	Well Wizard™	____	Dedicated

Other: ____

WELL INTEGRITY: OK LOCK #: 3210

REMARKS:
MEASURED 9.97 D 12:06 M

SIGNATURE: AA Page 1 of 1

SEACOR
WATER SAMPLE FIELD DATA SHEET

WELL ID: MW-11
SAMPLE ID: MW-11
CLIENT NAME: SAFETY KLEEN
LOCATION: OAKLAND

PROJECT NO: 7005-009-01
PURGED BY: [signature]
SAMPLED BY: [signature]

TYPE: Groundwater ✓ Surface Water ____ Treatment Effluent ____ Other ____

CASING DIAMETER (inches): 2 ✓ 3 ____ 4 ____ 4.5 ____ 6 ____ Other ____

CASING ELEVATION: (feet/MSL):		VOLUME IN CASING (gal)	3.25
DEPTH TO WATER (feet):	8.05	CALCULATED PURGE (gal)	9.76
DEPTH OF WELL (feet):	28.00	ACTUAL PURGE VOL. (gal)	10

DATE PURGED: 11/19/94 Start (2400 Hr) 10:58 End (2400 Hr.) 11:17
DATE SAMPLED: 11/19/94 Start (2400 Hr) 11:30 End (2400 Hr.) ____

FIELD QC SAMPLES COLLECTED AT THIS WELL (i.e. FB-1, X-DUP-1): ____

FIELD MEASUREMENTS

TIME (2400 Hr)	VOLUME (gal)	pH (units)	E.C. (umhos/cm@25°C)	TEMPERATURE (°F)	COLOR (visual)	TURBIDITY (NTU)
11:03	3	7.6	717	60.0	BROWN	MODERATE
11:09	7	7.5	728	61.2	"	"
11:17	10	7.2	749	61.2	"	"

D.O. (ppm): ____ COLOR, COBALT (0-100): ____

Clear
Cloudy
Yellow
Brown

ODOR: ____

PURGING EQUIPMENT

___	2" Bladder Pump	✓	Bailer(Teflon®)
___	Centrifugal Pump	___	Bailer (PVC)
___	Submersible Pump	___	Bailer (Stainless Steel)
___	Well Wizard™	___	Dedicated

Other: ____

SAMPLING EQUIPMENT

___	2" Bladder Pump	___	Bailer(Teflon®)
___	DDL Sampler	✓	Bailer (PVC)(disposable)
___	Submersible Pump	___	Bailer (Stainless Steel)
___	Well Wizard™	___	Dedicated

Other: ____

WELL INTEGRITY: OK. LOCK #: 3210

REMARKS:
MEASURED 8.18 @ 11:22 am

SIGNATURE: [signature] Page 1 of 1

SEACOR
WATER SAMPLE FIELD DATA SHEET

WELL ID: MW-12
SAMPLE ID: MW-12
CLIENT NAME: SAFETY KLEEN
LOCATION: OAKLAND,

PROJECT NO: 70005-009-01
PURGED BY: NN
SAMPLED BY: NN

TYPE: Groundwater ✓ Surface Water ____ Treatment Effluent ____ Other ____

CASING DIAMETER (inches): 2 ✓ 3 ____ 4 ____ 4.5 ____ 6 ____ Other ____

CASING ELEVATION: (feet/MSL):		VOLUME IN CASING (gal)	3.37
DEPTH TO WATER (feet):	7.79	CALCULATED PURGE (gal)	10.12
DEPTH OF WELL (feet):	28.48	ACTUAL PURGE VOL. (gal)	12

DATE PURGED: 1/19/96 Start (2400 Hr) 10:13 End (2400 Hr.) 10:31
DATE SAMPLED: 1/19/96 Start (2400 Hr) 10:40 End (2400 Hr.) ____

FIELD QC SAMPLES COLLECTED AT THIS WELL (i.e. FB-1, X-DUP-1): ____

FIELD MEASUREMENTS

TIME (2400 Hr)	VOLUME (gal)	pH (units)	E.C. (umhos/cm@25°C)	TEMPERATURE (°F)	COLOR (Visual)	TURBIDITY (NTU) VISUAL
10:19	4	7.6	753	58.8	YELLOW	MODERATE
10:24	8	7.2	766	59.3	"	"
10:30	12	7.2	749	58.1	"	"

D.O. (ppm): ____ COLOR, COBALT (0-100): ____

ODOR: ____

Clear
Cloudy
Yellow
Brown

PURGING EQUIPMENT

___	2" Bladder Pump	___	Bailer(Teflon®)
___	Centrifugal Pump	✓	Bailer (PVC)
___	Submersible Pump	___	Bailer (Stainless Steel)
___	Well Wizard™	___	Dedicated

Other: ____

SAMPLING EQUIPMENT

___	2" Bladder Pump	___	Bailer(Teflon®)
___	DDL Sampler	✓	Bailer (PVC/disposable)
___	Submersible Pump	___	Bailer (Stainless Steel)
___	Well Wizard™	___	Dedicated

Other: ____

WELL INTEGRITY: OK. LOCK #: 3210

REMARKS:
MEASURED 8.00 @ 10:36 AM

SIGNATURE: NN

APPENDIX B
CERTIFIED LABORATORY RESULTS - VAPOR

Superior Precision Analytical, Inc.
1555 Burke, Unit I • San Francisco, California 94124 • (415) 647-2081 / fax (415) 821-7123

CERTIFICATE OF ANALYSIS

Laboratory No.: 57720
Client : SEACOR
Client job No.: 70005-009-04

Date received : 02/28/94
Date reported : 03/03/94
Date revised : 03/04/94

ANALYSIS FOR MINERAL SPIRITS, BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES
BY EPA SW-846 METHOD 5030/8015M/8020
Concentration in air is calculated based on 20°C and 1 ATM. Assumed molecular weight of mineral spirits is same as decane. Reported as volume to volume.

Lab	Sample ID	Date Sampled	Date Analyzed	Analyte	Conc.	RL	Unit
1	PADRE INF.	02/28/94	03/01/94	Mineral Spirits	37	15	ppm
				Benzene	ND	85	ppb
				Toluene	ND	250	ppb
				Ethyl Benzene	ND	65	ppb
				Xylenes	1200	250	ppb
QC	METHOD BLANK	Air	03/01/94	Mineral Spirits	ND	15	ppm
				Benzene	ND	85	ppb
				Toluene	ND	250	ppb
				Ethyl Benzene	ND	65	ppb
				Xylenes	ND	250	ppb

QC Summary:

Air	Benzene	MS/MSD % Recovery = 93/88	Duplicate RPD = 6%
Air	Toluene	MS/MSD % Recovery = 95/89	Duplicate RPD = 7%
Air	Ethyl Benzene	MS/MSD % Recovery = 93/86	Duplicate RPD = 8%
Air	Xylenes	MS/MSD % Recovery = 99/94	Duplicate RPD = 5%

ND = Not Detected
NA = Not Applicable
RL = Reporting Limit

Cecilia Joaquin
Senior Chemist
Account Manager

Superior Precision Analytical, Inc.
825 Arnold Drive, Suite 114 • Martinez, California 94553 • (510) 229-1512 / fax (510) 229-1526

CERTIFICATE OF ANALYSIS

LABORATORY NO. 57720
CLIENT: SEACOR

DATE SAMPLED : 02/28/94
DATE ANALYZED: 03/01/94

DATE RECEIVED: 02/28/94
DATE REPORTED: 03/07/94
PROJECT NO. : 70005-009-04

EPA SW-846 METHOD 8010 - VOLATILE ORGANICS

SAMPLE: PADRE INF

Compound	RL ppb (V/V)	
Chloromethane	480	ND
Bromomethane	250	ND
Vinyl Chloride	390	ND
Chloroethane	270	ND
Methylene Chloride	140	ND
Trichlorofluoromethane	88	ND
1,1-Dichloroethene	120	ND
1,1-Dichloroethane	120	ND
cis-1,2-Dichloroethene	120	ND
trans-1,2-Dichloroethene	120	ND
Chloroform	100	ND
1,2-Dichloroethane	120	ND
1,1,1-Trichloroethane	90	130
Carbon Tetrachloride	78	ND
Bromodichloromethane	68	ND
1,2-Dichloropropane	110	ND
Cis-1,3-Dichloropropene	110	ND
Trichloroethene	92	ND
Dibromochloromethane	58	ND
1,1,2-Trichloroethane	90	ND

Superior Precision Analytical, Inc.
825 Arnold Drive, Suite 114 • Martinez, California 94553 • (510) 229-1512 / fax (510) 229-1526

CERTIFICATE OF ANALYSIS

LABORATORY NO. 57720
CLIENT: SEACOR

DATE RECEIVED: 02/28/94
DATE REPORTED: 03/07/94
PROJECT NO. : 70005-009-04

DATE SAMPLED : 02/28/94
DATE ANALYZED: 03/01/94

EPA SW-846 METHOD 8010 - VOLATILE ORGANICS

SAMPLE: PADRE INF

Compound	RL ppb (V/V)	
Trans-1,3-Dichloropropene	110	ND
Bromoform	48	ND
Tetrachloroethene	73	ND
1,1,2,2-Tetrachloroethane	72	ND
Chlorobenzene	110	ND
1,3-Dichlorobenzene	82	ND
1,4-Dichlorobenzene	82	ND
1,2-Dichlorobenzene	82	ND
Freon 113	64	ND

RL = Reporting Limit
ND = ANALYTE NOT DETECTED ABOVE QUANTITATION LIMIT

Comments:

3/7/94
Senior Chemist
Account Manager

57720 Chain-of-Custody Number: A

SEACOR Chain-of-Custody Record

Address
1390 Willow Pass Rd. Ste 3600
Concord CA 94520
(510) 686-9780

Project # 20005-009-01 Task # ____
Project Manager Greg Hochs
Laboratory Superior
Turn-around time: Normal

Sampler's Name: Bob Robitaille
Sampler's Signature: [signature]

Analysis Request

Sample ID	Date	Time	Matrix	TPHg/BTEX 8015 (modified)/8020	TPHd 8015 (modified)	TPH 418.1	Aromatic Volatiles 602/8020	Volatile Organics 624/8240 (GC/MS)	Halogenated Volatiles 601/8010 + 8020	Semi-volatile Organics 625/8270 (GC/MS)	Pesticides/PCB's 608/8080	Total Lead 7421	Priority Pollutant Metals (13)	TCLP Metals	TPH-as-Mineral Spirits			Comments/ Instructions	Number of Containers
Padre Inf.	2/28/94	13:30	Air						X						X				2

Please Initial: VW
Samples Stored in ice. yes
Appropriate containers yes
Samples preserved yes
VOA's without headspace N/A
Comments: ____

Special Instructions/Comments:
Site: Safety Kleen
400 Market St.
Oakland, CA.

Relinquished by:
Sign [signature]
Print Bob Robitaille
Company SEACOR
Time 1440 Date 2-28-94

Received by:
Sign ____
Print ____
Company ____
Time ____ Date ____

Relinquished by:
Sign ____
Print ____
Company ____
Time ____ Date ____

Received by:
Sign Val Ogamba
Print ____
Company Superior
Time 2:14 pm Date 2/28/94

Sample Receipt

Total no. of containers
Chain of custody seals:
Rec'd good condition/cold:
Conforms to record:

Client:
Client Contact:
Client Phone Number:

R. Burton
Date 02/28/94 Page 1 of 1

GTEL
ENVIRONMENTAL
LABORATORIES, INC.

4080 Pike Lane
Concord, CA 94520
(510) 685-7852
(800) 544-3422 Inside CA
(800) 423-7143 Outside CA
(510) 825-0720 FAX

Client Number: SEA01SFK01
Consultant Project Number: 70005-009
Work Order Number: C4-02-0035

February 4, 1994

RECEIVED
FEB 7 1994

Greg Hoehn
SEACOR
1390 Willow Pass Road, Suite 360
Concord, CA 94520

Enclosed please find the analytical results for samples received by GTEL Environmental Laboratories, Inc. on 02/02/94.

A formal Quality Assurance/Quality Control (QA/QC) program is maintained by GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/QC criteria, unless otherwise stated in the footnotes.

GTEL is certified by the California State Department of Health Services, Laboratory certification number E1075, to perform analyses for drinking water, wastewater, and hazardous waste materials according to EPA protocols.

If you have any questions concerning this analysis or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,
GTEL Environmental Laboratories, Inc.

Rashmi Shah
Laboratory Director

Client Number: SEA01SFK01
Consultant Project Number: 70005-009
Work Order Number: C4-02-0035

Table 1

ANALYTICAL RESULTS
Volatile Halocarbons and Aromatics in Air
EPA Method 601[a]

GTEL Sample Number		01	020294C		
Client Identification		PADRE INF.	METHOD BLANK		
Date Sampled		02/02/94	--		
Date Analyzed		02/02/94	02/02/94		
Analyte	Detection Limit, ug/L	Concentration, ug/L			
Chloromethane	0.5	<0.5	<0.5		
Bromomethane	0.5	<0.5	<0.5		
Vinyl chloride	1	<1	<1		
Chloroethane	0.5	<0.5	<0.5		
Methylene chloride	0.5	<0.5	<0.5		
1,1-Dichloroethene	0.5	<0.5	<0.5		
1,1-Dichloroethane	0.5	<0.5	<0.5		
1,2-Dichloroethene	0.5	<0.5	<0.5		
Chloroform	0.5	<0.5	<0.5		
1,2-Dichloroethane	0.5	<0.5	<0.5		
1,1,1-Trichloroethane	0.5	3	<0.5		
Carbon tetrachloride	0.5	<0.5	<0.5		
Bromodichloromethane	0.5	<0.5	<0.5		
1,2-Dichloropropane	0.5	<0.5	<0.5		
cis-1,3-Dichloropropene	0.5	<0.5	<0.5		
Trichloroethene	0.5	<0.5	<0.5		
Dichlorodifluoromethane	0.5	<0.5	<0.5		
Dibromochloromethane	0.5	<0.5	<0.5		
1,1,2-Trichloroethane	0.5	<0.5	<0.5		
trans-1,3-Dichloropropene	0.5	<0.5	<0.5		
2-Chloroethylvinyl ether	1	<1	<1		
Bromoform	0.5	<0.5	<0.5		
Tetrachloroethene	0.5	<0.5	<0.5		
1,1,2,2-Tetrachloroethane	0.5	<0.5	<0.5		
Chlorobenzene	0.5	<0.5	<0.5		
1,2-Dichlorobenzene	0.5	<0.5	<0.5		
1,3-Dichlorobenzene	0.5	<0.5	<0.5		
1,4-Dichlorobenzene	0.5	<0.5	<0.5		
Trichlorofluoromethane	0.5	<0.5	<0.5		
Detection Limit Multiplier		1	1		
BFB surrogate, % recovery		113	104		

a. Test Method for Chemical Analysis of Water and Wastes, EPA 600/4-79-020, March, 1983.

GTEL ENVIRONMENTAL LABORATORIES, INC

Client Number: SEA01SFK01
Consultant Project Number: 70005-009
Work Order Number: C4-02-0035

Table 1

ANALYTICAL RESULTS

Aromatic Volatile Organics and Total Petroleum Hydrocarbons as Mineral Spirits in Air

Modified EPA Methods 602 and 8015[a]

GTEL Sample Number		01	E020294-1		
Client Identification		PADRE INF.	METHOD BLANK		
Date Sampled		02/02/94	--		
Date Analyzed		02/02/94	02/02/94		
Analyte	Detection Limit, ug/L	Concentration, ug/L			
Benzene	0.5	<0.5	<0.5		
Toluene	0.5	<0.5	<0.5		
Ethylbenzene	0.5	<0.5	<0.5		
Xylene, total	0.5	2	<0.5		
TPH as Mineral Spirits	10	1100	<10		
Detection Limit Multiplier		1	1		
TFT surrogate, % recovery		110	104		

a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Modification for TPH as gasoline as per California State Water Resources Control Board LUFT Manual protocols, May 1988 revision.

Chain-of-Custody Number: A

SEACOR Chain-of-Custody Record

history: none

Address
1390 Willow Pass Rd Ste 360
Concord CA 94520
(510) 686-9780

Project # 20005-009 Task #
Project Manager Greg Haehn
Laboratory GTEL
Turn-around time: Standard
Sampler's Name: Bob Robitaille
Sampler's Signature:

Analysis Request

Sample ID	Date	Time	Matrix	TPHg/BTEX 8015 (modified)/8020	TPHd 8015 (modified)	TPH 418.1	Aromatic Volatiles 602/8020	Volatile Organics 624/8240 (GC/MS)	Halogenated Volatiles 601/8010	Semi-volatile Organics 625/8270 (GC/MS)	Pesticides/PCB's 608/8080	Total Lead 7421	Priority Pollutant Metals (13)	TCLP Metals	TPH-gas-Mineral Spirits			Comments/ Instructions	Number of Containers
01 Padre Inf.	Feb 2,94		Air				X		X						X				2
																		J. [illegible] 2/4/94	
															2/4				
																		Box 2 C4020035	

Special Instructions/Comments:
Safety Kleen - Oakland
Auth.# RM181203201973A

Relinquished by:
Sign
Print Bob Robitaille
Company SEACOR
Time 1328 Date 2-2-94

Received by:
Sign Kevin Molander
Print Kevin Molander
Company GTEL
Time 1:28 Date 2-2-94

Relinquished by:
Sign
Print
Company
Time Date

Received by:
Sign
Print
Company
Time Date

Sample Receipt

Total no. of containers
Chain of custody seals:
Rec'd good condition/cold:
Conforms to record:

Client:
Client Contact:
Client Phone Number:

Date 02 / 02 / 94 Page 1 of 1

GTEL
ENVIRONMENTAL
LABORATORIES, INC.

Northwest Region
4080-C Pike Lane
Concord, CA 94520
(510) 685-7852
(800) 544-3422 *from inside California*
(800) 423-7143 *from outside California*
(510) 825-0720 (FAX)

Client Number: SEA02SFK01
Consultant Project Number: 70005-009-04
Work Order Number: C4-01-0019

January 7, 1994

Greg Hoehn
Seacor
1390 Willow Pass Road, Suite 360
Concord, CA 94520

Enclosed please find the analytical results for samples received by GTEL Environmental Laboratories, Inc. on 01/04/94.

A formal Quality Assurance/Quality Control (QA/QC) program is maintained by GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/QC criteria, unless otherwise stated in the footnotes.

GTEL is certified by the California State Department of Health Services, Laboratory certification number E1075, to perform analyses for drinking water, wastewater, and hazardous waste materials according to EPA protocols.

If you have any questions concerning this analysis or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,
GTEL Environmental Laboratories, Inc.

Rashmi Shah
Laboratory Director

Client Number: SEA02SFK01
Consultant Project Number: 70005-009-04
Work Order Number: C4-01-0019

Table 1

ANALYTICAL RESULTS

Aromatic Volatile Organics and Total Petroleum Hydrocarbons as Mineral Spirits in Air

Modified EPA Methods 8020 and 8015[a]

GTEL Sample Number		01	E010594		
Client Identification		PADRE INF.	METHOD BLANK		
Date Sampled		01/04/94	--		
Date Analyzed		01/05/94	01/05/94		
Analyte	Detection Limit, ug/L	Concentration, ug/L			
Benzene	0.5	<0.5	<0.5		
Toluene	0.5	<0.5	<0.5		
Ethylbenzene	0.5	2	<0.5		
Xylene, total	0.5	4	<0.5		
Mineral Spirits	10	170	<10		
Detection Limit Multiplier		1	NA		
BFB surrogate, % recovery		114	105		

a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Modification for TPH as gasoline as per California State Water Resources Control Board LUFT Manual protocols, May 1988 revision. Bromofluorobenzene surrogate recovery acceptability limits are 70-130%. NA = Not Applicable.

GTEL ENVIRONMENTAL LABORATORIES, INC.

Client Number: SEA02SFK01
Consultant Project Number: 70005-009-04
Work Order Number: C4-01-0019

Table 1

ANALYTICAL RESULTS

Purgeable Halocarbons in Air

EPA Method 8010[a]

GTEL Sample Number		01	C010594		
Client Identification		PADRE INF.	METHOD BLANK		
Date Sampled		01/04/94	--		
Date Analyzed		01/05/94	01/05/94		
Analyte	Detection Limit, ug/L	Concentration, ug/L			
Chloromethane	0.5	<0.5	<0.5		
Bromomethane	0.5	<0.5	<0.5		
Vinyl chloride	1	<1	<1		
Chloroethane	0.5	<0.5	<0.5		
Methylene chloride	0.5	<0.5	<0.5		
1,1-Dichloroethene	0.5	<0.5	<0.5		
1,1-Dichloroethane	0.5	<0.5	<0.5		
1,2-Dichloroethene	0.5	<0.5	<0.5		
Chloroform	0.5	<0.5	<0.5		
1,2-Dichloroethane	0.5	<0.5	<0.5		
1,1,1-Trichloroethane	0.5	<0.5	<0.5		
Carbon tetrachloride	0.5	<0.5	<0.5		
Bromodichloromethane	0.5	<0.5	<0.5		
1,2-Dichloropropane	0.5	<0.5	<0.5		
cis-1,3-Dichloropropene	0.5	<0.5	<0.5		
Trichloroethene	0.5	<0.5	<0.5		
Dichlorodifluoromethane	0.5	<0.5	<0.5		
Dibromochloromethane	0.5	<0.5	<0.5		
1,1,2-Trichloroethane	0.5	<0.5	<0.5		
trans-1,3-Dichloropropene	0.5	<0.5	<0.5		
2-Chloroethylvinyl ether	1	<1	<1		
Bromoform	0.5	<0.5	<0.5		
Tetrachloroethene	0.5	<0.5	<0.5		
1,1,2,2-Tetrachloroethane	0.5	<0.5	<0.5		
Chlorobenzene	0.5	<0.5	<0.5		
1,2-Dichlorobenzene	0.5	<0.5	<0.5		
1,3-Dichlorobenzene	0.5	<0.5	<0.5		
1,4-Dichlorobenzene	0.5	<0.5	<0.5		
Trichlorofluoromethane	0.5	<0.5	<0.5		
Detection Limit Multiplier		1	1		
BFB surrogate, % recovery		90.2	92.0		

a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Bromofluorobenzene surrogate recovery acceptability limits are 65-135%.

GTEL ENVIRONMENTAL LABORATORIES, INC.

Chain-of-Custody Number: A

SEACOR Chain-of-Custody Record

Address
SEACOR
1390 WILLOW PASS #360
CONCORD, CA. 94520

Project # 70005-009-04 Task # SK13
Project Manager G. HOEHN
Laboratory GTEL
Turn-around time: NORMAL
Sampler's Name:
Sampler's Signature:

Analysis Request

Sample ID	Date	Time	Matrix	TPHg/BTEX 8015 (modified)/8020	TPHd 8015 (modified)	TPH 418.1	Aromatic Volatiles 602/8020	Volatile Organics 624/8240 (GC/MS)	Halogenated Volatiles 601/8010	Semi-volatile Organics 625/8270 (GC/MS)	Pesticides/PCB's 608/8080	Total Lead 7421	Priority Pollutant Metals (13)	TCLP Metals	TPH-AS Mineral Spirits	BTEX		Comments/ Instructions	Number of Containers
PADRE WF.	1/4/94	11:05	AIR						X						X	X			2
																		C9010019	

Special Instructions/Comments:
SAFETY KLEEN OAKLAND
AUTH # RM 181203201973 A

Relinquished by:
Sign
Print R. MANSO
Company SEACOR
Time 14:20 Date 1/4/94

Received by:
Sign
Print RON JENSEN
Company GTEL
Time 14:20 Date 1/4/94

Relinquished by:
Sign
Print
Company
Time Date

Received by:
Sign
Print
Company
Time Date

Sample Receipt

Total no. of containers
Chain of custody seals:
Rec'd good condition/cold:
Conforms to record:

SEACOR
Client:
GREG HOEHN
Client Contact:
(510)686-9780
Client/Phone Number:

Date / / Page of

GTEL
ENVIRONMENTAL
LABORATORIES, INC.
4080 Pike Lane
Concord, CA 94520
(510) 685-7852
(800) 544-3422 Inside CA
(800) 423-7143 Outside CA
(510) 825-0720 FAX

Client Number: SEA02SFK01
Consultant Project Number: 70005-009
Project ID: Safety-Kleen/Oakland
Work Order Number: C3-12-0171

December 17, 1993

Greg Hoehn
SEACOR
1390 Willow Pass Road, Suite 360
Concord, CA 94520

Enclosed please find the analytical results for samples received by GTEL Environmental Laboratories, Inc. on 12/10/93, under chain of custody record "A".

A formal Quality Assurance/Quality Control (QA/QC) program is maintained by GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/QC criteria, unless otherwise stated in the footnotes.

GTEL is certified by the California State Department of Health Services, Laboratory certification number E1075, to perform analyses for drinking water, wastewater, and hazardous waste materials according to EPA protocols.

If you have any questions concerning this analysis or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,

GTEL Environmental Laboratories, Inc.

Bill Svoboda
for
Rashmi Shah
Laboratory Director

Client Number: SEA02SFK01
Consultant Project Number: 70005-009
Project ID: Safety-Kleen/Oakland
Work Order Number: C3-12-0171

GTEL ENVIRONMENTAL LABORATORIES, INC.

Table 1

ANALYTICAL RESULTS

Total Petroleum Hydrocarbons as Mineral Spirits in Air

Modified EPA Method 8015[a]

a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. BFB surrogate recovery acceptability limits are 70-130%.

GTEL Sample Number		01	E121093		
Client Identification		PADRE INF	METHOD BLANK		
Date Sampled		12/10/93	–		
Date Analyzed		12/11/93	12/10/93		
Analyte	Detection Limit, ug/L	Concentration, ug/L			
TPH as Mineral Spirits	10	170	<10		
Detection Limit Multiplier		1	1		
BFB surrogate, % recovery		113	98.9		

Client Number: SEA02SFK01
Consultant Project Number: 70005-009
Project ID: Safety-Kleen/Oakland
Work Order Number: C3-12-0171

Table 1
ANALYTICAL RESULTS
Volatile Halocarbons and Aromatics in Air EPA Methods 601 and 602[a]

GTEL Sample Number		01	121193C		
Client Identification		PADRE INF	METHOD BLANK		
Date Sampled		12/10/93	–		
Date Analyzed		12/11/93	12/11/93		
Analyte	Detection Limit, ug/L	Concentration, ug/L			
Chloromethane	0.5	<0.5	<0.5		
Bromomethane	0.5	<0.5	<0.5		
Vinyl chloride	1	<1	<1		
Chloroethane	0.5	<0.5	<0.5		
Methylene chloride	0.5	<0.5	<0.5		
1,1-Dichloroethene	0.5	<0.5	<0.5		
1,1-Dichloroethane	0.5	<0.5	<0.5		
1,2-Dichloroethene	0.5	<0.5	<0.5		
Chloroform	0.5	<0.5	<0.5		
1,2-Dichloroethane	0.5	<0.5	<0.5		
1,1,1-Trichloroethane	0.5	<0.5	<0.5		
Carbon tetrachloride	0.5	<0.5	<0.5		
Bromodichloromethane	0.5	<0.5	<0.5		
1,2-Dichloropropane	0.5	<0.5	<0.5		
cis-1,3-Dichloropropene	0.5	<0.5	<0.5		
Trichloroethene	0.5	<0.5	<0.5		
Dichlorodifluoromethane	0.5	<0.5	<0.5		
Dibromochloromethane	0.5	<0.5	<0.5		
1,1,2-Trichloroethane	0.5	<0.5	<0.5		
trans-1,3-Dichloropropene	0.5	<0.5	<0.5		
2-Chloroethylvinyl ether	1	<1	<1		
Bromoform	0.5	<0.5	<0.5		
Tetrachloroethene	0.5	<0.5	<0.5		
1,1,2,2-Tetrachloroethane	0.5	<0.5	<0.5		
Chlorobenzene	0.5	<0.5	<0.5		
1,2-Dichlorobenzene	0.5	<0.5	<0.5		
1,3-Dichlorobenzene	0.5	<0.5	<0.5		
1,4-Dichlorobenzene	0.5	<0.5	<0.5		
Trichlorofluoromethane	0.5	<0.5	<0.5		
Benzene	0.5	<0.5	<0.5		
Toluene	0.5	<0.5	<0.5		
Ethylbenzene	0.5	<0.5	<0.5		
Xylenes, total	0.5	4	<0.5		
Detection Limit Multiplier		1	1		
BFB surrogate, %recovery		85.8	84.0		

a. Federal Register, Vol. 49, October 26, 1984.

GTEL ENVIRONMENTAL LABORATORIES, INC

Chain-of-Custody Number: 11

SEACOR Chain-of-Custody Record

Address: 1390 Willow Pass Rd. Ste 300
Concord CA 94520
(510) 686-9780

Project # 20005-009 Task # SETB
Project Manager Greg Hoerr
Laboratory GTEL
Turn-around time: 5-day
Sampler's Name: Bob Robitaille
Sampler's Signature:

Analysis Request

Sample ID	Date	Time	Matrix	TPHg/BTEX 8015 (modified)/8020	TPHd 8015 (modified)	TPH 418.1	Aromatic Volatiles 602/8020	Volatile Organics 624/8240 (GC/MS)	Halogenated Volatiles 601/8010	Semi-volatile Organics 625/8270 (GC/MS)	Pesticides/PCB's 608/8080	Total Lead 7421	Priority Pollutant Metals (13)	TCLP Metals	TPH-GS-Mineral Spirits			Comments/ Instructions	Number of Containers
01 Padre Inf.	12-10-93	1120	Air				X		X						X				2
02 Padre Effl	12-10-93	1130	Air				X		X						X				2
																		Hold	
																		1114	
																		Box 12	
																		C3120171	

Special Instructions/Comments:
Safety Kleen / Oakland
Auth # RM181203201973A

Relinquished by:
Sign
Print Bob Robitaille
Company SEACOR
Time 12:43 Date 12-10-93

Received by:
Sign Kevin Molander
Print Kevin Molander
Company GTEL
Time 12:43 Date 12-10-93

Relinquished by:
Sign
Print
Company
Time Date

Received by:
Sign
Print
Company
Time Date

Sample Receipt

Total no. of containers
Chain of custody seals:
Rec'd good condition/cold:
Conforms to record:

Client:
Client Contact:
Client Phone Number:

Date 12 / 10 / 93 Page 1 of 1

APPENDIX C

CERTIFIED LABORATORY RESULTS - GROUNDWATER

NATIONAL ENVIRONMENTAL TESTING, INC.

NET Pacific, Inc.
435 Tesconi Circle
Santa Rosa, CA 95401
Tel: (707) 526-7200
Fax: (707) 526-9623

Ann Lunt
Safety-Kleen
PO Box 1447
Manhattan Beach, CA 90266

Date: 02/02/1994
NET Client Acct. No: 62100
NET Pacific Job No: 94.00263
Received: 01/22/1994

RECEIVED
FEB 7 1994

Client Reference Information

Safety-Kleen, Project: 70005-009-02, Oakland

Sample analysis in support of the project referenced above has been completed and results are presented on following pages. Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Should you have questions regarding procedures or results, please feel welcome to contact Client Services.

Approved by:

Linda DeMartino
Project Coordinator

Jim Hoch
Operations Manager

cc: Greg Hoehn
Seacor
1390 Willow Pass Road, Ste 360
Concord, CA 94520

Enclosure(s)

Ref: Safety-Kleen, Project: 70005-009-02, Oakland

SAMPLE DESCRIPTION: MW-1
Date Taken: 01/20/1994
Time Taken: 11:30
NET Sample No: 183395

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
TPH (Gas/BTXE,Liquid)							
METHOD 5030/M8015	--						01/25/1994
DILUTION FACTOR*	1						01/25/1994
as Mineral Spirits	ND		0.05	mg/L	5030		01/25/1994
METHOD 8020 (GC,Liquid)	--						01/25/1994
DILUTION FACTOR*	1						01/25/1994
Benzene	ND		0.5	ug/L	8020		01/25/1994
Toluene	ND		0.5	ug/L	8020		01/25/1994
Ethylbenzene	ND		0.5	ug/L	8020		01/25/1994
Xylenes (Total)	ND		0.5	ug/L	8020		01/25/1994
SURROGATE RESULTS	--						01/25/1994
Bromofluorobenzene (SURR)	96			% Rec.	5030		01/25/1994

Ref: Safety-Kleen, Project: 70005-009-02, Oakland

SAMPLE DESCRIPTION: MW-1
Date Taken: 01/20/1994
Time Taken: 11:30
NET Sample No: 183395

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
METHOD 8010 (GC,Liquid)							
DILUTION FACTOR*	1						01/27/1994
Bromodichloromethane	ND		0.4	ug/L	8010		01/27/1994
Bromoform	ND		0.4	ug/L	8010		01/27/1994
Bromomethane	ND		0.4	ug/L	8010		01/27/1994
Carbon tetrachloride	ND		0.4	ug/L	8010		01/27/1994
Chlorobenzene	ND		0.4	ug/L	8010		01/27/1994
Chloroethane	ND		0.4	ug/L	8010		01/27/1994
2-Chloroethylvinyl ether	ND		1.0	ug/L	8010		01/27/1994
Chloroform	ND		0.4	ug/L	8010		01/27/1994
Chloromethane	ND		0.4	ug/L	8010		01/27/1994
Dibromochloromethane	ND		0.4	ug/L	8010		01/27/1994
1,2-Dichlorobenzene	ND		0.4	ug/L	8010		01/27/1994
1,3-Dichlorobenzene	ND		0.4	ug/L	8010		01/27/1994
1,4-Dichlorobenzene	ND		0.4	ug/L	8010		01/27/1994
Dichlorodifluoromethane	ND		0.4	ug/L	8010		01/27/1994
1,1-Dichloroethane	ND		0.4	ug/L	8010		01/27/1994
1,2-Dichloroethane	ND		0.4	ug/L	8010		01/27/1994
1,1-Dichloroethene	ND		0.4	ug/L	8010		01/27/1994
trans-1,2-Dichloroethene	ND		0.4	ug/L	8010		01/27/1994
1,2-Dichloropropane	ND		0.4	ug/L	8010		01/27/1994
cis-1,3-Dichloropropene	ND		0.4	ug/L	8010		01/27/1994
trans-1,3-Dichloropropene	ND		0.4	ug/L	8010		01/27/1994
Methylene chloride	ND		10	ug/L	8010		01/27/1994
1,1,2,2-Tetrachloroethane	ND		0.4	ug/L	8010		01/27/1994
Tetrachloroethene	ND		0.4	ug/L	8010		01/27/1994
1,1,1-Trichloroethane	ND		0.4	ug/L	8010		01/27/1994
1,1,2-Trichloroethane	ND		1	ug/L	8010		01/27/1994
Trichloroethene	ND		0.4	ug/L	8010		01/27/1994
Trichlorofluoromethane	ND		0.4	ug/L	8010		01/27/1994
Vinyl chloride	ND		0.4	ug/L	8010		01/27/1994
SURROGATE RESULTS	--						01/27/1994
1,4-Difluorobenzene (SURR)	88			% Rec.			01/27/1994
1,4-Dichlorobutane (SURR)	89			% Rec.			01/27/1994

Ref: Safety-Kleen, Project: 70005-009-02, Oakland

SAMPLE DESCRIPTION: MW-2
Date Taken: 01/20/1994
Time Taken: 10:45
NET Sample No: 183396

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
TPH (Gas/BTXE,Liquid)							
METHOD 5030/M8015	--						01/25/1994
DILUTION FACTOR*	1						01/25/1994
as Mineral Spirits	ND		0.05	mg/L	5030		01/25/1994
METHOD 8020 (GC,Liquid)	--						01/25/1994
DILUTION FACTOR*	1						01/25/1994
Benzene	ND		0.5	ug/L	8020		01/25/1994
Toluene	ND		0.5	ug/L	8020		01/25/1994
Ethylbenzene	ND		0.5	ug/L	8020		01/25/1994
Xylenes (Total)	ND		0.5	ug/L	8020		01/25/1994
SURROGATE RESULTS	--						01/25/1994
Bromofluorobenzene (SURR)	100			% Rec.	5030		01/25/1994

Ref: Safety-Kleen, Project: 70005-009-02, Oakland

SAMPLE DESCRIPTION: MW-2
Date Taken: 01/20/1994
Time Taken: 10:45
NET Sample No: 183396

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
METHOD 8010 (GC,Liquid)							
DILUTION FACTOR*	1						01/27/1994
Bromodichloromethane	ND		0.4	ug/L	8010		01/27/1994
Bromoform	ND		0.4	ug/L	8010		01/27/1994
Bromomethane	ND		0.4	ug/L	8010		01/27/1994
Carbon tetrachloride	ND		0.4	ug/L	8010		01/27/1994
Chlorobenzene	ND		0.4	ug/L	8010		01/27/1994
Chloroethane	ND		0.4	ug/L	8010		01/27/1994
2-Chloroethylvinyl ether	ND		1.0	ug/L	8010		01/27/1994
Chloroform	ND		0.4	ug/L	8010		01/27/1994
Chloromethane	ND		0.4	ug/L	8010		01/27/1994
Dibromochloromethane	ND		0.4	ug/L	8010		01/27/1994
1,2-Dichlorobenzene	ND		0.4	ug/L	8010		01/27/1994
1,3-Dichlorobenzene	ND		0.4	ug/L	8010		01/27/1994
1,4-Dichlorobenzene	ND		0.4	ug/L	8010		01/27/1994
Dichlorodifluoromethane	ND		0.4	ug/L	8010		01/27/1994
1,1-Dichloroethane	ND		0.4	ug/L	8010		01/27/1994
1,2-Dichloroethane	ND		0.4	ug/L	8010		01/27/1994
1,1-Dichloroethene	ND		0.4	ug/L	8010		01/27/1994
trans-1,2-Dichloroethene	ND		0.4	ug/L	8010		01/27/1994
1,2-Dichloropropane	ND		0.4	ug/L	8010		01/27/1994
cis-1,3-Dichloropropene	ND		0.4	ug/L	8010		01/27/1994
trans-1,3-Dichloropropene	ND		0.4	ug/L	8010		01/27/1994
Methylene chloride	ND		10	ug/L	8010		01/27/1994
1,1,2,2-Tetrachloroethane	ND		0.4	ug/L	8010		01/27/1994
Tetrachloroethene	ND		0.4	ug/L	8010		01/27/1994
1,1,1-Trichloroethane	ND		0.4	ug/L	8010		01/27/1994
1,1,2-Trichloroethane	ND		1	ug/L	8010		01/27/1994
Trichloroethene	ND		0.4	ug/L	8010		01/27/1994
Trichlorofluoromethane	ND		0.4	ug/L	8010		01/27/1994
Vinyl chloride	ND		0.4	ug/L	8010		01/27/1994
SURROGATE RESULTS	--						01/27/1994
1,4-Difluorobenzene (SURR)	91			% Rec.			01/27/1994
1,4-Dichlorobutane (SURR)	92			% Rec.			01/27/1994

Ref: Safety-Kleen, Project: 70005-009-02, Oakland

SAMPLE DESCRIPTION: MW-3
Date Taken: 01/19/1994
Time Taken: 14:35
NET Sample No: 183397

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
TPH (Gas/BTXE,Liquid)							
METHOD 5030/M8015	--						01/25/1994
DILUTION FACTOR*	1						01/25/1994
as Mineral Spirits	ND		0.05	mg/L	5030		01/25/1994
METHOD 8020 (GC,Liquid)	--						01/25/1994
DILUTION FACTOR*	1						01/25/1994
Benzene	ND		0.5	ug/L	8020		01/25/1994
Toluene	ND		0.5	ug/L	8020		01/25/1994
Ethylbenzene	ND		0.5	ug/L	8020		01/25/1994
Xylenes (Total)	ND		0.5	ug/L	8020		01/25/1994
SURROGATE RESULTS	--						01/25/1994
Bromofluorobenzene (SURR)	94			% Rec.	5030		01/25/1994

Ref: Safety-Kleen, Project: 70005-009-02, Oakland

SAMPLE DESCRIPTION: MW-3
Date Taken: 01/19/1994
Time Taken: 14:35
NET Sample No: 183397

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
METHOD 8010 (GC,Liquid)							
DILUTION FACTOR*	1						01/26/1994
Bromodichloromethane	ND		0.4	ug/L	8010		01/26/1994
Bromoform	ND		0.4	ug/L	8010		01/26/1994
Bromomethane	ND		0.4	ug/L	8010		01/26/1994
Carbon tetrachloride	ND		0.4	ug/L	8010		01/26/1994
Chlorobenzene	ND		0.4	ug/L	8010		01/26/1994
Chloroethane	ND		0.4	ug/L	8010		01/26/1994
2-Chloroethylvinyl ether	ND		1.0	ug/L	8010		01/26/1994
Chloroform	ND		0.4	ug/L	8010		01/26/1994
Chloromethane	ND		0.4	ug/L	8010		01/26/1994
Dibromochloromethane	ND		0.4	ug/L	8010		01/26/1994
1,2-Dichlorobenzene	ND		0.4	ug/L	8010		01/26/1994
1,3-Dichlorobenzene	ND		0.4	ug/L	8010		01/26/1994
1,4-Dichlorobenzene	ND		0.4	ug/L	8010		01/26/1994
Dichlorodifluoromethane	ND		0.4	ug/L	8010		01/26/1994
1,1-Dichloroethane	ND		0.4	ug/L	8010		01/26/1994
1,2-Dichloroethane	ND		0.4	ug/L	8010		01/26/1994
1,1-Dichloroethene	ND		0.4	ug/L	8010		01/26/1994
trans-1,2-Dichloroethene	ND		0.4	ug/L	8010		01/26/1994
1,2-Dichloropropane	ND		0.4	ug/L	8010		01/26/1994
cis-1,3-Dichloropropene	ND		0.4	ug/L	8010		01/26/1994
trans-1,3-Dichloropropene	ND		0.4	ug/L	8010		01/26/1994
Methylene chloride	ND		10	ug/L	8010		01/26/1994
1,1,2,2-Tetrachloroethane	ND		0.4	ug/L	8010		01/26/1994
Tetrachloroethene	ND		0.4	ug/L	8010		01/26/1994
1,1,1-Trichloroethane	ND		0.4	ug/L	8010		01/26/1994
1,1,2-Trichloroethane	ND		1	ug/L	8010		01/26/1994
Trichloroethene	ND		0.4	ug/L	8010		01/26/1994
Trichlorofluoromethane	ND		0.4	ug/L	8010		01/26/1994
Vinyl chloride	ND		0.4	ug/L	8010		01/26/1994
SURROGATE RESULTS	--						01/26/1994
1,4-Difluorobenzene (SURR)	97			% Rec.			01/26/1994
1,4-Dichlorobutane (SURR)	98			% Rec.			01/26/1994

Ref: Safety-Kleen, Project: 70005-009-02, Oakland

SAMPLE DESCRIPTION: MW-4
Date Taken: 01/20/1994
Time Taken: 09:05
NET Sample No: 183398

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
TPH (Gas/BTXE,Liquid)							
METHOD 5030/M8015	--						01/25/1994
DILUTION FACTOR*	1						01/25/1994
as Mineral Spirits	0.27	G1	0.05	mg/L	5030		01/25/1994
METHOD 8020 (GC,Liquid)	--						01/25/1994
DILUTION FACTOR*	1						01/25/1994
Benzene	ND		0.5	ug/L	8020		01/25/1994
Toluene	ND		0.5	ug/L	8020		01/25/1994
Ethylbenzene	ND		0.5	ug/L	8020		01/25/1994
Xylenes (Total)	ND		0.5	ug/L	8020		01/25/1994
SURROGATE RESULTS	--						01/25/1994
Bromofluorobenzene (SURR)	94			% Rec.	5030		01/25/1994

G1 : The result for Mineral Spirits is an unk. HC which consists of a single peak.

Ref: Safety-Kleen, Project: 70005-009-02, Oakland

SAMPLE DESCRIPTION: MW-4
Date Taken: 01/20/1994
Time Taken: 09:05
NET Sample No: 183398

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
METHOD 8010 (GC,Liquid)							
DILUTION FACTOR*	1						01/27/1994
Bromodichloromethane	ND		0.4	ug/L	8010		01/27/1994
Bromoform	ND		0.4	ug/L	8010		01/27/1994
Bromomethane	ND		0.4	ug/L	8010		01/27/1994
Carbon tetrachloride	ND		0.4	ug/L	8010		01/27/1994
Chlorobenzene	ND		0.4	ug/L	8010		01/27/1994
Chloroethane	ND		0.4	ug/L	8010		01/27/1994
2-Chloroethylvinyl ether	ND		1.0	ug/L	8010		01/27/1994
Chloroform	ND		0.4	ug/L	8010		01/27/1994
Chloromethane	ND		0.4	ug/L	8010		01/27/1994
Dibromochloromethane	ND		0.4	ug/L	8010		01/27/1994
1,2-Dichlorobenzene	ND		0.4	ug/L	8010		01/27/1994
1,3-Dichlorobenzene	ND		0.4	ug/L	8010		01/27/1994
1,4-Dichlorobenzene	ND		0.4	ug/L	8010		01/27/1994
Dichlorodifluoromethane	ND		0.4	ug/L	8010		01/27/1994
1,1-Dichloroethane	ND		0.4	ug/L	8010		01/27/1994
1,2-Dichloroethane	ND		0.4	ug/L	8010		01/27/1994
1,1-Dichloroethene	ND		0.4	ug/L	8010		01/27/1994
trans-1,2-Dichloroethene	1.1		0.4	ug/L	8010		01/27/1994
1,2-Dichloropropane	ND		0.4	ug/L	8010		01/27/1994
cis-1,3-Dichloropropene	ND		0.4	ug/L	8010		01/27/1994
trans-1,3-Dichloropropene	ND		0.4	ug/L	8010		01/27/1994
Methylene chloride	ND		10	ug/L	8010		01/27/1994
1,1,2,2-Tetrachloroethane	ND		0.4	ug/L	8010		01/27/1994
Tetrachloroethene	ND		0.4	ug/L	8010		01/27/1994
1,1,1-Trichloroethane	ND		0.4	ug/L	8010		01/27/1994
1,1,2-Trichloroethane	ND		1	ug/L	8010		01/27/1994
Trichloroethene	790	FD	0.4	ug/L	8010		01/27/1994
Trichlorofluoromethane	ND		0.4	ug/L	8010		01/27/1994
Vinyl chloride	ND		0.4	ug/L	8010		01/27/1994
SURROGATE RESULTS	--						01/27/1994
1,4-Difluorobenzene (SURR)	89			% Rec.			01/27/1994
1,4-Dichlorobutane (SURR)	94			% Rec.			01/27/1994

FD : Compound quantitated at a 20X dilution factor.

Ref: Safety-Kleen, Project: 70005-009-02, Oakland

SAMPLE DESCRIPTION: MW-5
Date Taken: 01/20/1994
Time Taken: 09:55
NET Sample No: 183399

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
TPH (Gas/BTXE,Liquid)							
METHOD 5030/M8015	--						01/25/1994
DILUTION FACTOR*	1						01/25/1994
as Mineral Spirits	ND		0.05	mg/L	5030		01/25/1994
METHOD 8020 (GC,Liquid)	--						01/25/1994
DILUTION FACTOR*	1						01/25/1994
Benzene	ND		0.5	ug/L	8020		01/25/1994
Toluene	ND		0.5	ug/L	8020		01/25/1994
Ethylbenzene	ND		0.5	ug/L	8020		01/25/1994
Xylenes (Total)	ND		0.5	ug/L	8020		01/25/1994
SURROGATE RESULTS	--						01/25/1994
Bromofluorobenzene (SURR)	97			% Rec.	5030		01/25/1994

Ref: Safety-Kleen, Project: 70005-009-02, Oakland

SAMPLE DESCRIPTION: MW-5
Date Taken: 01/20/1994
Time Taken: 09:55
NET Sample No: 183399

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
METHOD 8010 (GC,Liquid)							
DILUTION FACTOR*	1						01/27/1994
Bromodichloromethane	ND		0.4	ug/L	8010		01/27/1994
Bromoform	ND		0.4	ug/L	8010		01/27/1994
Bromomethane	ND		0.4	ug/L	8010		01/27/1994
Carbon tetrachloride	ND		0.4	ug/L	8010		01/27/1994
Chlorobenzene	ND		0.4	ug/L	8010		01/27/1994
Chloroethane	ND		0.4	ug/L	8010		01/27/1994
2-Chloroethylvinyl ether	ND		1.0	ug/L	8010		01/27/1994
Chloroform	4.3		0.4	ug/L	8010		01/27/1994
Chloromethane	ND		0.4	ug/L	8010		01/27/1994
Dibromochloromethane	ND		0.4	ug/L	8010		01/27/1994
1,2-Dichlorobenzene	ND		0.4	ug/L	8010		01/27/1994
1,3-Dichlorobenzene	ND		0.4	ug/L	8010		01/27/1994
1,4-Dichlorobenzene	ND		0.4	ug/L	8010		01/27/1994
Dichlorodifluoromethane	ND		0.4	ug/L	8010		01/27/1994
1,1-Dichloroethane	ND		0.4	ug/L	8010		01/27/1994
1,2-Dichloroethane	ND		0.4	ug/L	8010		01/27/1994
1,1-Dichloroethene	ND		0.4	ug/L	8010		01/27/1994
trans-1,2-Dichloroethene	ND		0.4	ug/L	8010		01/27/1994
1,2-Dichloropropane	ND		0.4	ug/L	8010		01/27/1994
cis-1,3-Dichloropropene	ND		0.4	ug/L	8010		01/27/1994
trans-1,3-Dichloropropene	ND		0.4	ug/L	8010		01/27/1994
Methylene chloride	ND		10	ug/L	8010		01/27/1994
1,1,2,2-Tetrachloroethane	ND		0.4	ug/L	8010		01/27/1994
Tetrachloroethene	ND		0.4	ug/L	8010		01/27/1994
1,1,1-Trichloroethane	ND		0.4	ug/L	8010		01/27/1994
1,1,2-Trichloroethane	ND		1	ug/L	8010		01/27/1994
Trichloroethene	ND		0.4	ug/L	8010		01/27/1994
Trichlorofluoromethane	ND		0.4	ug/L	8010		01/27/1994
Vinyl chloride	ND		0.4	ug/L	8010		01/27/1994
SURROGATE RESULTS	--						01/27/1994
1,4-Difluorobenzene (SURR)	94			% Rec.			01/27/1994
1,4-Dichlorobutane (SURR)	93			% Rec.			01/27/1994

Ref: Safety-Kleen, Project: 70005-009-02, Oakland

SAMPLE DESCRIPTION: MW-6
Date Taken: 01/19/1994
Time Taken: 13:35
NET Sample No: 183400

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
TPH (Gas/BTXE,Liquid)							
METHOD 5030/M8015	--						01/25/1994
DILUTION FACTOR*	1						01/25/1994
as Mineral Spirits	ND		0.05	mg/L	5030		01/25/1994
METHOD 8020 (GC,Liquid)	--						01/25/1994
DILUTION FACTOR*	1						01/25/1994
Benzene	ND		0.5	ug/L	8020		01/25/1994
Toluene	ND		0.5	ug/L	8020		01/25/1994
Ethylbenzene	ND		0.5	ug/L	8020		01/25/1994
Xylenes (Total)	ND		0.5	ug/L	8020		01/25/1994
SURROGATE RESULTS	--						01/25/1994
Bromofluorobenzene (SURR)	92			% Rec.	5030		01/25/1994

Ref: Safety-Kleen, Project: 70005-009-02, Oakland

SAMPLE DESCRIPTION: MW-6
Date Taken: 01/19/1994
Time Taken: 13:35
NET Sample No: 183400

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
METHOD 8010 (GC,Liquid)							
DILUTION FACTOR*	1						01/26/1994
Bromodichloromethane	ND		0.4	ug/L	8010		01/26/1994
Bromoform	ND		0.4	ug/L	8010		01/26/1994
Bromomethane	ND		0.4	ug/L	8010		01/26/1994
Carbon tetrachloride	ND		0.4	ug/L	8010		01/26/1994
Chlorobenzene	ND		0.4	ug/L	8010		01/26/1994
Chloroethane	ND		0.4	ug/L	8010		01/26/1994
2-Chloroethylvinyl ether	ND		1.0	ug/L	8010		01/26/1994
Chloroform	ND		0.4	ug/L	8010		01/26/1994
Chloromethane	ND		0.4	ug/L	8010		01/26/1994
Dibromochloromethane	ND		0.4	ug/L	8010		01/26/1994
1,2-Dichlorobenzene	ND		0.4	ug/L	8010		01/26/1994
1,3-Dichlorobenzene	ND		0.4	ug/L	8010		01/26/1994
1,4-Dichlorobenzene	ND		0.4	ug/L	8010		01/26/1994
Dichlorodifluoromethane	ND		0.4	ug/L	8010		01/26/1994
1,1-Dichloroethane	ND		0.4	ug/L	8010		01/26/1994
1,2-Dichloroethane	ND		0.4	ug/L	8010		01/26/1994
1,1-Dichloroethene	ND		0.4	ug/L	8010		01/26/1994
trans-1,2-Dichloroethene	ND		0.4	ug/L	8010		01/26/1994
1,2-Dichloropropane	ND		0.4	ug/L	8010		01/26/1994
cis-1,3-Dichloropropene	ND		0.4	ug/L	8010		01/26/1994
trans-1,3-Dichloropropene	ND		0.4	ug/L	8010		01/26/1994
Methylene chloride	ND		10	ug/L	8010		01/26/1994
1,1,2,2-Tetrachloroethane	ND		0.4	ug/L	8010		01/26/1994
Tetrachloroethene	ND		0.4	ug/L	8010		01/26/1994
1,1,1-Trichloroethane	ND		0.4	ug/L	8010		01/26/1994
1,1,2-Trichloroethane	ND		1	ug/L	8010		01/26/1994
Trichloroethene	ND		0.4	ug/L	8010		01/26/1994
Trichlorofluoromethane	ND		0.4	ug/L	8010		01/26/1994
Vinyl chloride	ND		0.4	ug/L	8010		01/26/1994
SURROGATE RESULTS	--						01/26/1994
1,4-Difluorobenzene (SURR)	97			% Rec.			01/26/1994
1,4-Dichlorobutane (SURR)	94			% Rec.			01/26/1994

Ref: Safety-Kleen, Project: 70005-009-02, Oakland

SAMPLE DESCRIPTION: MW-8
Date Taken: 01/20/1994
Time Taken: 12:45
NET Sample No: 163401

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
TPH (Gas/BTXE,Liquid)							
METHOD 5030/M8015	--						01/25/1994
DILUTION FACTOR*	1						01/25/1994
as Mineral Spirits	0.06	GX	0.05	mg/L	5030		01/25/1994
METHOD 8020 (GC,Liquid)	--						01/25/1994
DILUTION FACTOR*	1						01/25/1994
Benzene	ND		0.5	ug/L	8020		01/25/1994
Toluene	ND		0.5	ug/L	8020		01/25/1994
Ethylbenzene	ND		0.5	ug/L	8020		01/25/1994
Xylenes (Total)	ND		0.5	ug/L	8020		01/25/1994
SURROGATE RESULTS	--						01/25/1994
Bromofluorobenzene (SURR)	101			% Rec.	5030		01/25/1994

GX : The result for Mineral Spirits is an unk. HC which consists of several peaks.

Ref: Safety-Kleen, Project: 70005-009-02, Oakland

SAMPLE DESCRIPTION: MW-8
Date Taken: 01/20/1994
Time Taken: 12:45
NET Sample No: 183401

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
METHOD 8010 (GC,Liquid)							
DILUTION FACTOR*	1						01/27/1994
Bromodichloromethane	ND		0.4	ug/L	8010		01/27/1994
Bromoform	ND		0.4	ug/L	8010		01/27/1994
Bromomethane	ND		0.4	ug/L	8010		01/27/1994
Carbon tetrachloride	ND		0.4	ug/L	8010		01/27/1994
Chlorobenzene	16		0.4	ug/L	8010		01/27/1994
Chloroethane	ND		0.4	ug/L	8010		01/27/1994
2-Chloroethylvinyl ether	ND		1.0	ug/L	8010		01/27/1994
Chloroform	ND		0.4	ug/L	8010		01/27/1994
Chloromethane	ND		0.4	ug/L	8010		01/27/1994
Dibromochloromethane	ND		0.4	ug/L	8010		01/27/1994
1,2-Dichlorobenzene	4.8		0.4	ug/L	8010		01/27/1994
1,3-Dichlorobenzene	ND		0.4	ug/L	8010		01/27/1994
1,4-Dichlorobenzene	ND		0.4	ug/L	8010		01/27/1994
Dichlorodifluoromethane	ND		0.4	ug/L	8010		01/27/1994
1,1-Dichloroethane	8.6		0.4	ug/L	8010		01/27/1994
1,2-Dichloroethane	11		0.4	ug/L	8010		01/27/1994
1,1-Dichloroethene	ND		0.4	ug/L	8010		01/27/1994
trans-1,2-Dichloroethene	ND		0.4	ug/L	8010		01/27/1994
1,2-Dichloropropane	ND		0.4	ug/L	8010		01/27/1994
cis-1,3-Dichloropropene	ND		0.4	ug/L	8010		01/27/1994
trans-1,3-Dichloropropene	ND		0.4	ug/L	8010		01/27/1994
Methylene chloride	ND		10	ug/L	8010		01/27/1994
1,1,2,2-Tetrachloroethane	ND		0.4	ug/L	8010		01/27/1994
Tetrachloroethene	2.0		0.4	ug/L	8010		01/27/1994
1,1,1-Trichloroethane	2.5		0.4	ug/L	8010		01/27/1994
1,1,2-Trichloroethane	ND		1	ug/L	8010		01/27/1994
Trichloroethene	22		0.4	ug/L	8010		01/27/1994
Trichlorofluoromethane	ND		0.4	ug/L	8010		01/27/1994
Vinyl chloride	ND		0.4	ug/L	8010		01/27/1994
SURROGATE RESULTS	--						01/27/1994
1,4-Difluorobenzene (SURR)	94			% Rec.			01/27/1994
1,4-Dichlorobutane (SURR)	96			% Rec.			01/27/1994

Ref: Safety-Kleen, Project: 70005-009-02, Oakland

SAMPLE DESCRIPTION: MW-10
Date Taken: 01/19/1994
Time Taken: 12:15
NET Sample No: 183402

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
TPH (Gas/BTXE,Liquid)							
METHOD 5030/M8015	--						01/25/1994
DILUTION FACTOR*	1						01/25/1994
as Mineral Spirits	ND		0.05	mg/L	5030		01/25/1994
METHOD 8020 (GC,Liquid)	--						01/25/1994
DILUTION FACTOR*	1						01/25/1994
Benzene	ND		0.5	ug/L	8020		01/25/1994
Toluene	ND		0.5	ug/L	8020		01/25/1994
Ethylbenzene	ND		0.5	ug/L	8020		01/25/1994
Xylenes (Total)	ND		0.5	ug/L	8020		01/25/1994
SURROGATE RESULTS	--						01/25/1994
Bromofluorobenzene (SURR)	97			% Rec.	5030		01/25/1994

Ref: Safety-Kleen, Project: 70005-009-02, Oakland

SAMPLE DESCRIPTION: MW-10
Date Taken: 01/19/1994
Time Taken: 12:15
NET Sample No: 183402

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
METHOD 8010 (GC,Liquid)							
DILUTION FACTOR*	1						01/26/1994
Bromodichloromethane	ND		0.4	ug/L	8010		01/26/1994
Bromoform	ND		0.4	ug/L	8010		01/26/1994
Bromomethane	ND		0.4	ug/L	8010		01/26/1994
Carbon tetrachloride	ND		0.4	ug/L	8010		01/26/1994
Chlorobenzene	ND		0.4	ug/L	8010		01/26/1994
Chloroethane	ND		0.4	ug/L	8010		01/26/1994
2-Chloroethylvinyl ether	ND		1.0	ug/L	8010		01/26/1994
Chloroform	ND		0.4	ug/L	8010		01/26/1994
Chloromethane	ND		0.4	ug/L	8010		01/26/1994
Dibromochloromethane	ND		0.4	ug/L	8010		01/26/1994
1,2-Dichlorobenzene	ND		0.4	ug/L	8010		01/26/1994
1,3-Dichlorobenzene	ND		0.4	ug/L	8010		01/26/1994
1,4-Dichlorobenzene	ND		0.4	ug/L	8010		01/26/1994
Dichlorodifluoromethane	ND		0.4	ug/L	8010		01/26/1994
1,1-Dichloroethane	ND		0.4	ug/L	8010		01/26/1994
1,2-Dichloroethane	ND		0.4	ug/L	8010		01/26/1994
1,1-Dichloroethene	ND		0.4	ug/L	8010		01/26/1994
trans-1,2-Dichloroethene	0.4		0.4	ug/L	8010		01/26/1994
1,2-Dichloropropane	ND		0.4	ug/L	8010		01/26/1994
cis-1,3-Dichloropropene	ND		0.4	ug/L	8010		01/26/1994
trans-1,3-Dichloropropene	ND		0.4	ug/L	8010		01/26/1994
Methylene chloride	ND		10	ug/L	8010		01/26/1994
1,1,2,2-Tetrachloroethane	ND		0.4	ug/L	8010		01/26/1994
Tetrachloroethene	ND		0.4	ug/L	8010		01/26/1994
1,1,1-Trichloroethane	ND		0.4	ug/L	8010		01/26/1994
1,1,2-Trichloroethane	ND		1	ug/L	8010		01/26/1994
Trichloroethene	67		0.4	ug/L	8010		01/26/1994
Trichlorofluoromethane	ND		0.4	ug/L	8010		01/26/1994
Vinyl chloride	ND		0.4	ug/L	8010		01/26/1994
SURROGATE RESULTS	--						01/26/1994
1,4-Difluorobenzene (SURR)	99			% Rec.			01/26/1994
1,4-Dichlorobutane (SURR)	98			% Rec.			01/26/1994

Ref: Safety-Kleen, Project: 70005-009-02, Oakland

SAMPLE DESCRIPTION: MW-11
Date Taken: 01/19/1994
Time Taken: 11:30
NET Sample No: 183403

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
TPH (Gas/BTXE,Liquid)							
METHOD 5030/M8015	--						01/25/1994
DILUTION FACTOR*	1						01/25/1994
as Mineral Spirits	ND		0.05	mg/L	5030		01/25/1994
METHOD 8020 (GC,Liquid)	--						01/25/1994
DILUTION FACTOR*	1						01/25/1994
Benzene	ND		0.5	ug/L	8020		01/25/1994
Toluene	ND		0.5	ug/L	8020		01/25/1994
Ethylbenzene	ND		0.5	ug/L	8020		01/25/1994
Xylenes (Total)	ND		0.5	ug/L	8020		01/25/1994
SURROGATE RESULTS	--						01/25/1994
Bromofluorobenzene (SURR)	97			% Rec.	5030		01/25/1994

Ref: Safety-Kleen, Project: 70005-009-02, Oakland

SAMPLE DESCRIPTION: MW-11
Date Taken: 01/19/1994
Time Taken: 11:30
NET Sample No: 183403

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
METHOD 8010 (GC,Liquid)							
DILUTION FACTOR*	1						01/26/1994
Bromodichloromethane	ND		0.4	ug/L	8010		01/26/1994
Bromoform	ND		0.4	ug/L	8010		01/26/1994
Bromomethane	ND		0.4	ug/L	8010		01/26/1994
Carbon tetrachloride	ND		0.4	ug/L	8010		01/26/1994
Chlorobenzene	ND		0.4	ug/L	8010		01/26/1994
Chloroethane	ND		0.4	ug/L	8010		01/26/1994
2-Chloroethylvinyl ether	ND		1.0	ug/L	8010		01/26/1994
Chloroform	ND		0.4	ug/L	8010		01/26/1994
Chloromethane	ND		0.4	ug/L	8010		01/26/1994
Dibromochloromethane	ND		0.4	ug/L	8010		01/26/1994
1,2-Dichlorobenzene	ND		0.4	ug/L	8010		01/26/1994
1,3-Dichlorobenzene	ND		0.4	ug/L	8010		01/26/1994
1,4-Dichlorobenzene	ND		0.4	ug/L	8010		01/26/1994
Dichlorodifluoromethane	ND		0.4	ug/L	8010		01/26/1994
1,1-Dichloroethane	ND		0.4	ug/L	8010		01/26/1994
1,2-Dichloroethane	ND		0.4	ug/L	8010		01/26/1994
1,1-Dichloroethene	ND		0.4	ug/L	8010		01/26/1994
trans-1,2-Dichloroethene	ND		0.4	ug/L	8010		01/26/1994
1,2-Dichloropropane	ND		0.4	ug/L	8010		01/26/1994
cis-1,3-Dichloropropene	ND		0.4	ug/L	8010		01/26/1994
trans-1,3-Dichloropropene	ND		0.4	ug/L	8010		01/26/1994
Methylene chloride	ND		10	ug/L	8010		01/26/1994
1,1,2,2-Tetrachloroethane	ND		0.4	ug/L	8010		01/26/1994
Tetrachloroethene	ND		0.4	ug/L	8010		01/26/1994
1,1,1-Trichloroethane	ND		0.4	ug/L	8010		01/26/1994
1,1,2-Trichloroethane	ND		1	ug/L	8010		01/26/1994
Trichloroethene	2.6		0.4	ug/L	8010		01/26/1994
Trichlorofluoromethane	ND		0.4	ug/L	8010		01/26/1994
Vinyl chloride	ND		0.4	ug/L	8010		01/26/1994
SURROGATE RESULTS	--						01/26/1994
1,4-Difluorobenzene (SURR)	95			% Rec.			01/26/1994
1,4-Dichlorobutane (SURR)	93			% Rec.			01/26/1994

Ref: Safety-Kleen, Project: 70005-009-02, Oakland

SAMPLE DESCRIPTION: MW-12
Date Taken: 01/19/1994
Time Taken: 10:40
NET Sample No: 183404

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
TPH (Gas/BTXE,Liquid)							
METHOD 5030/M8015	--						01/25/1994
DILUTION FACTOR*	1						01/25/1994
as Mineral Spirits	ND		0.05	mg/L	5030		01/25/1994
METHOD 8020 (GC,Liquid)	--						01/25/1994
DILUTION FACTOR*	1						01/25/1994
Benzene	ND		0.5	ug/L	8020		01/25/1994
Toluene	ND		0.5	ug/L	8020		01/25/1994
Ethylbenzene	ND		0.5	ug/L	8020		01/25/1994
Xylenes (Total)	ND		0.5	ug/L	8020		01/25/1994
SURROGATE RESULTS	--						01/25/1994
Bromofluorobenzene (SURR)	95			% Rec.	5030		01/25/1994

Ref: Safety-Kleen, Project: 70005-009-02, Oakland

SAMPLE DESCRIPTION: MW-12
Date Taken: 01/19/1994
Time Taken: 10:40
NET Sample No: 183404

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
METHOD 8010 (GC,Liquid)							
DILUTION FACTOR*	1						01/26/1994
Bromodichloromethane	ND		0.4	ug/L	8010		01/26/1994
Bromoform	ND		0.4	ug/L	8010		01/26/1994
Bromomethane	ND		0.4	ug/L	8010		01/26/1994
Carbon tetrachloride	ND		0.4	ug/L	8010		01/26/1994
Chlorobenzene	ND		0.4	ug/L	8010		01/26/1994
Chloroethane	ND		0.4	ug/L	8010		01/26/1994
2-Chloroethylvinyl ether	ND		1.0	ug/L	8010		01/26/1994
Chloroform	ND		0.4	ug/L	8010		01/26/1994
Chloromethane	ND		0.4	ug/L	8010		01/26/1994
Dibromochloromethane	ND		0.4	ug/L	8010		01/26/1994
1,2-Dichlorobenzene	ND		0.4	ug/L	8010		01/26/1994
1,3-Dichlorobenzene	ND		0.4	ug/L	8010		01/26/1994
1,4-Dichlorobenzene	ND		0.4	ug/L	8010		01/26/1994
Dichlorodifluoromethane	ND		0.4	ug/L	8010		01/26/1994
1,1-Dichloroethane	2.3		0.4	ug/L	8010		01/26/1994
1,2-Dichloroethane	1.2		0.4	ug/L	8010		01/26/1994
1,1-Dichloroethene	ND		0.4	ug/L	8010		01/26/1994
trans-1,2-Dichloroethene	ND		0.4	ug/L	8010		01/26/1994
1,2-Dichloropropane	ND		0.4	ug/L	8010		01/26/1994
cis-1,3-Dichloropropene	ND		0.4	ug/L	8010		01/26/1994
trans-1,3-Dichloropropene	ND		0.4	ug/L	8010		01/26/1994
Methylene chloride	ND		10	ug/L	8010		01/26/1994
1,1,2,2-Tetrachloroethane	ND		0.4	ug/L	8010		01/26/1994
Tetrachloroethene	ND		0.4	ug/L	8010		01/26/1994
1,1,1-Trichloroethane	ND		0.4	ug/L	8010		01/26/1994
1,1,2-Trichloroethane	ND		1	ug/L	8010		01/26/1994
Trichloroethene	11		0.4	ug/L	8010		01/26/1994
Trichlorofluoromethane	ND		0.4	ug/L	8010		01/26/1994
Vinyl chloride	ND		0.4	ug/L	8010		01/26/1994
SURROGATE RESULTS	--						01/26/1994
1,4-Difluorobenzene (SURR)	92			% Rec.			01/26/1994
1,4-Dichlorobutane (SURR)	92			% Rec.			01/26/1994

Ref: Safety-Kleen, Project: 70005-009-02, Oakland

CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

Parameter	CCV Standard % Recovery	CCV Standard Amount Found	CCV Standard Amount Expected	Units	Date Analyzed	Analyst Initials
TPH (Gas/BTXE,Liquid)						
Benzene	103.4	5.17	5.00	ug/L	01/25/1994	vin
Toluene	103.6	5.18	5.00	ug/L	01/25/1994	vin
Ethylbenzene	101.6	5.08	5.00	ug/L	01/25/1994	vin
Xylenes (Total)	102.5	15.38	15.0	ug/L	01/25/1994	vin
Bromofluorobenzene (SURR)	101.0	101	100	% Rec.	01/25/1994	vin
METHOD 8010 (GC,Liquid)						
Bromodichloromethane	85.5	17.1	20.0	ug/L	01/26/1994	asm
Bromoform	75.0	15.0	20.0	ug/L	01/26/1994	asm
Bromomethane	105.0	21.0	20.0	ug/L	01/26/1994	asm
Carbon tetrachloride	98.5	19.7	20.0	ug/L	01/26/1994	asm
Chlorobenzene	91.5	18.3	20.0	ug/L	01/26/1994	asm
Chloroethane	105.0	21.0	20.0	ug/L	01/26/1994	asm
2-Chloroethylvinyl ether	80.0	16.0	20.0	ug/L	01/26/1994	asm
Chloroform	94.0	18.8	20.0	ug/L	01/26/1994	asm
Chloromethane	92.0	18.4	20.0	ug/L	01/26/1994	asm
Dibromochloromethane	79.0	15.8	20.0	ug/L	01/26/1994	asm
1,2-Dichlorobenzene	90.5	18.1	20.0	ug/L	01/26/1994	asm
1,3-Dichlorobenzene	84.0	16.8	20.0	ug/L	01/26/1994	asm
1,4-Dichlorobenzene	88.5	17.7	20.0	ug/L	01/26/1994	asm
1,1-Dichloroethane	96.0	19.2	20.0	ug/L	01/26/1994	asm
1,2-Dichloroethane	92.5	18.5	20.0	ug/L	01/26/1994	asm
1,1-Dichloroethene	82.0	16.4	20.0	ug/L	01/26/1994	asm
trans-1,2-Dichloroethene	87.5	17.5	20.0	ug/L	01/26/1994	asm
1,2-Dichloropropane	89.5	17.9	20.0	ug/L	01/26/1994	asm
cis-1,3-Dichloropropene	90.0	18.0	20.0	ug/L	01/26/1994	asm
trans-1,3-Dichloropropene	90.0	18.0	20.0	ug/L	01/26/1994	asm
Methylene chloride	94.0	18.8	20.0	ug/L	01/26/1994	asm
1,1,2,2-Tetrachloroethane	111.0	22.2	20.0	ug/L	01/26/1994	asm
Tetrachloroethene	92.5	18.5	20.0	ug/L	01/26/1994	asm
1,1,1-Trichloroethane	99.0	19.8	20.0	ug/L	01/26/1994	asm
1,1,2-Trichloroethane	91.0	18.2	20.0	ug/L	01/26/1994	asm
Trichloroethene	87.0	17.4	20.0	ug/L	01/26/1994	asm
Trichlorofluoromethane	90.0	18.0	20.0	ug/L	01/26/1994	asm
Vinyl chloride	93.5	18.7	20.0	ug/L	01/26/1994	asm
1,4-Difluorobenzene (SURR)	105.0	105	100	% Rec.	01/26/1994	asm
1,4-Dichlorobutane (SURR)	84.0	84	100	% Rec.	01/26/1994	asm
METHOD 8010 (GC,Liquid)						
Bromodichloromethane	96.5	19.3	20.0	ug/L	01/27/1994	asm
Bromoform	88.5	17.7	20.0	ug/L	01/27/1994	asm
Bromomethane	106.0	21.2	20.0	ug/L	01/27/1994	asm
Carbon tetrachloride	104.5	20.9	20.0	ug/L	01/27/1994	asm
Chlorobenzene	101.0	20.2	20.0	ug/L	01/27/1994	asm
Chloroethane	106.0	21.2	20.0	ug/L	01/27/1994	asm

Ref: Safety-Kleen, Project: 70005-009-02, Oakland

CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

Parameter	CCV Standard % Recovery	CCV Standard Amount Found	CCV Standard Amount Expected	Units	Date Analyzed	Analyst Initials
2-Chloroethylvinyl ether	81.5	16.3	20.0	ug/L	01/27/1994	asm
Chloroform	104.0	20.8	20.0	ug/L	01/27/1994	asm
Chloromethane	89.0	17.8	20.0	ug/L	01/27/1994	asm
Dibromochloromethane	93.5	18.7	20.0	ug/L	01/27/1994	asm
1,2-Dichlorobenzene	103.0	20.6	20.0	ug/L	01/27/1994	asm
1,3-Dichlorobenzene	95.0	19.0	20.0	ug/L	01/27/1994	asm
1,4-Dichlorobenzene	101.0	20.2	20.0	ug/L	01/27/1994	asm
1,1-Dichloroethane	103.0	20.6	20.0	ug/L	01/27/1994	asm
1,2-Dichloroethane	101.5	20.3	20.0	ug/L	01/27/1994	asm
1,1-Dichloroethene	80.0	16.0	20.0	ug/L	01/27/1994	asm
trans-1,2-Dichloroethene	88.0	17.6	20.0	ug/L	01/27/1994	asm
1,2-Dichloropropane	97.0	19.4	20.0	ug/L	01/27/1994	asm
cis-1,3-Dichloropropene	99.5	19.9	20.0	ug/L	01/27/1994	asm
trans-1,3-Dichloropropene	100.0	20.0	20.0	ug/L	01/27/1994	asm
Methylene chloride	94.0	18.8	20.0	ug/L	01/27/1994	asm
1,1,2,2-Tetrachloroethane	116.5	23.3	20.0	ug/L	01/27/1994	asm
Tetrachloroethene	101.0	20.2	20.0	ug/L	01/27/1994	asm
1,1,1-Trichloroethane	107.5	21.5	20.0	ug/L	01/27/1994	asm
1,1,2-Trichloroethane	100.5	20.1	20.0	ug/L	01/27/1994	asm
Trichloroethene	92.0	18.4	20.0	ug/L	01/27/1994	asm
Trichlorofluoromethane	86.5	17.3	20.0	ug/L	01/27/1994	asm
Vinyl chloride	89.0	17.8	20.0	ug/L	01/27/1994	asm
1,4-Difluorobenzene (SURR)	94.0	94	100	% Rec.	01/27/1994	asm
1,4-Dichlorobutane (SURR)	98.0	98	100	% Rec.	01/27/1994	asm

Ref: Safety-Kleen, Project: 70005-009-02, Oakland

METHOD BLANK REPORT

Parameter	Method Blank Amount Found	Reporting Limit	Units	Date Analyzed	Analyst Initials
TPH (Gas/BTXE,Liquid)					
as Mineral Spirits	ND	0.05	mg/L	01/25/1994	vin
Benzene	ND	0.5	ug/L	01/25/1994	vin
Toluene	ND	0.5	ug/L	01/25/1994	vin
Ethylbenzene	ND	0.5	ug/L	01/25/1994	vin
Xylenes (Total)	ND	0.5	ug/L	01/25/1994	vin
Bromofluorobenzene (SURR)	101		% Rec.	01/25/1994	vin
METHOD 8010 (GC,Liquid)					
Bromodichloromethane	ND	0.4	ug/L	01/26/1994	asm
Bromoform	ND	0.4	ug/L	01/26/1994	asm
Bromomethane	ND	0.4	ug/L	01/26/1994	asm
Carbon tetrachloride	ND	0.4	ug/L	01/26/1994	asm
Chlorobenzene	ND	0.4	ug/L	01/26/1994	asm
Chloroethane	ND	0.4	ug/L	01/26/1994	asm
2-Chloroethylvinyl ether	ND	1.0	ug/L	01/26/1994	asm
Chloroform	ND	0.4	ug/L	01/26/1994	asm
Chloromethane	ND	0.4	ug/L	01/26/1994	asm
Dibromochloromethane	ND	0.4	ug/L	01/26/1994	asm
1,2-Dichlorobenzene	ND	0.4	ug/L	01/26/1994	asm
1,3-Dichlorobenzene	ND	0.4	ug/L	01/26/1994	asm
1,4-Dichlorobenzene	ND	0.4	ug/L	01/26/1994	asm
Dichlorodifluoromethane	ND	0.4	ug/L	01/26/1994	asm
1,1-Dichloroethane	ND	0.4	ug/L	01/26/1994	asm
1,2-Dichloroethane	ND	0.4	ug/L	01/26/1994	asm
1,1-Dichloroethene	ND	0.4	ug/L	01/26/1994	asm
trans-1,2-Dichloroethene	ND	0.4	ug/L	01/26/1994	asm
1,2-Dichloropropane	ND	0.4	ug/L	01/26/1994	asm
cis-1,3-Dichloropropene	ND	0.4	ug/L	01/26/1994	asm
trans-1,3-Dichloropropene	ND	0.4	ug/L	01/26/1994	asm
Methylene chloride	ND	10	ug/L	01/26/1994	asm
1,1,2,2-Tetrachloroethane	ND	0.4	ug/L	01/26/1994	asm
Tetrachloroethene	ND	0.4	ug/L	01/26/1994	asm
1,1,1-Trichloroethane	ND	0.4	ug/L	01/26/1994	asm
1,1,2-Trichloroethane	ND	0.4	ug/L	01/26/1994	asm
Trichloroethene	ND	0.4	ug/L	01/26/1994	asm
Trichlorofluoromethane	ND	0.4	ug/L	01/26/1994	asm
Vinyl chloride	ND	0.4	ug/L	01/26/1994	asm
1,4-Difluorobenzene (SURR)	104		% Rec.	01/26/1994	asm
1,4-Dichlorobutane (SURR)	72		% Rec.	01/26/1994	asm
METHOD 8010 (GC,Liquid)					
Bromodichloromethane	ND	0.4	ug/L	01/27/1994	asm
Bromoform	ND	0.4	ug/L	01/27/1994	asm
Bromomethane	ND	0.4	ug/L	01/27/1994	asm
Carbon tetrachloride	ND	0.4	ug/L	01/27/1994	asm
Chlorobenzene	ND	0.4	ug/L	01/27/1994	asm
Chloroethane	ND	0.4	ug/L	01/27/1994	asm
2-Chloroethylvinyl ether	ND	1.0	ug/L	01/27/1994	asm

Ref: Safety-Kleen, Project: 70005-009-02, Oakland

METHOD BLANK REPORT

Parameter	Method Blank Amount Found	Reporting Limit	Units	Date Analyzed	Analyst Initials
Chloroform	ND	0.4	ug/L	01/27/1994	asm
Chloromethane	ND	0.4	ug/L	01/27/1994	asm
Dibromochloromethane	ND	0.4	ug/L	01/27/1994	asm
1,2-Dichlorobenzene	ND	0.4	ug/L	01/27/1994	asm
1,3-Dichlorobenzene	ND	0.4	ug/L	01/27/1994	asm
1,4-Dichlorobenzene	ND	0.4	ug/L	01/27/1994	asm
Dichlorodifluoromethane	ND	0.4	ug/L	01/27/1994	asm
1,1-Dichloroethane	ND	0.4	ug/L	01/27/1994	asm
1,2-Dichloroethane	ND	0.4	ug/L	01/27/1994	asm
1,1-Dichloroethene	ND	0.4	ug/L	01/27/1994	asm
trans-1,2-Dichloroethene	ND	0.4	ug/L	01/27/1994	asm
1,2-Dichloropropane	ND	0.4	ug/L	01/27/1994	asm
cis-1,3-Dichloropropene	ND	0.4	ug/L	01/27/1994	asm
trans-1,3-Dichloropropene	ND	0.4	ug/L	01/27/1994	asm
Methylene chloride	ND	10	ug/L	01/27/1994	asm
1,1,2,2-Tetrachloroethane	ND	0.4	ug/L	01/27/1994	asm
Tetrachloroethene	ND	0.4	ug/L	01/27/1994	asm
1,1,1-Trichloroethane	ND	0.4	ug/L	01/27/1994	asm
1,1,2-Trichloroethane	ND	0.4	ug/L	01/27/1994	asm
Trichloroethene	ND	0.4	ug/L	01/27/1994	asm
Trichlorofluoromethane	ND	0.4	ug/L	01/27/1994	asm
Vinyl chloride	ND	0.4	ug/L	01/27/1994	asm
1,4-Difluorobenzene (SURR)	99		% Rec.	01/27/1994	asm
1,4-Dichlorobutane (SURR)	95		% Rec.	01/27/1994	asm

Ref: Safety-Kleen, Project: 70005-009-02, Oakland

MATRIX SPIKE / MATRIX SPIKE DUPLICATE

Parameter	Matrix Spike % Rec.	Matrix Spike Dup % Rec.	RPD	Spike Amount	Sample Conc.	Matrix Spike Conc.	Matrix Spike Dup. Conc.	Units	Date Analyzed	Analyst Initials
TPH (Gas/BTXE,Liquid)										
Benzene	100.7	104.3	3.5	41.4	ND	41.7	43.2	ug/L	01/25/1994	vin
Toluene	99.9	103.1	3.1	99.6	ND	99.5	102.7	ug/L	01/25/1994	vin
Bromofluorobenzene (SURR)	101	108		100	98		*	% Rec.	01/25/1994	vin
METHOD 8010 (GC,Liquid)										
Chlorobenzene	82.5	77.5	6.3	20.0	ND	16.5	15.5	ug/L	01/26/1994	asm
1,1-Dichloroethene	74.5	70.0	6.2	20.0	ND	14.9	14.0	ug/L	01/26/1994	asm
Trichloroethene	77.0	73.5	4.7	20.0	ND	15.4	14.7	ug/L	01/26/1994	asm
1,4-Difluorobenzene (SURR)	97	94	3.1	100	102			% Rec.	01/26/1994	asm
1,4-Dichlorobutane (SURR)	81	75	7.7	100	76			% Rec.	01/26/1994	asm
METHOD 8010 (GC,Liquid)										
Chlorobenzene	117.5	118.5	0.8	20.0	ND	23.5	23.7	ug/L	01/27/1994	asm
1,1-Dichloroethene	90.5	90.5	0.0	20.0	ND	18.1	18.1	ug/L	01/27/1994	asm
Trichloroethene	102.0	100.5	1.5	20.0	ND	20.4	20.1	ug/L	01/27/1994	asm
1,4-Difluorobenzene (SURR)	193	199	3.1	100	190			% Rec.	01/27/1994	asm
1,4-Dichlorobutane (SURR)				100	90			% Rec.	01/27/1994	asm

NET®

KEY TO ABBREVIATIONS and METHOD REFERENCES

<	:	Less than; When appearing in results column indicates analyte not detected at the value following. This datum supercedes the listed Reporting Limit.
*	:	Reporting Limits are a function of the dilution factor for any given sample. Actual reporting limits and results have been multiplied by the listed dilution factor. Do not multiply the reporting limits or reported values by the dilution factor.
dw	:	Result expressed as dry weight.
mean	:	Average; sum of measurements divided by number of measurements.
mg/Kg (ppm)	:	Concentration in units of milligrams of analyte per kilogram of sample, wet-weight basis (parts per million).
mg/L	:	Concentration in units of milligrams of analyte per liter of sample.
mL/L/hr	:	Milliliters per liter per hour.
MPN/100 mL	:	Most probable number of bacteria per one hundred milliliters of sample.
N/A	:	Not applicable.
NA	:	Not analyzed.
ND	:	Not detected; the analyte concentration is less than the applicable listed reporting limit.
NTU	:	Nephelometric turbidity units.
RPD	:	Relative percent difference, 100 [Value 1 - Value 2]/mean value.
SNA	:	Standard not available.
ug/Kg (ppb)	:	Concentration in units of micrograms of analyte per kilogram of sample, wet-weight basis (parts per billion).
ug/L	:	Concentration in units of micrograms of analyte per liter of sample.
umhos/cm	:	Micromhos per centimeter.

Method References

Methods 100 through 493: see "Methods for Chemical Analysis of Water & Wastes", U.S. EPA, 600/4-79-020, Rev. 1983.

Methods 601 through 625: see "Guidelines Establishing Test Procedures for the Analysis of Pollutants" U.S. EPA, 40 CFR, Part 136, Rev. 1988.

Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", U.S. EPA SW-846, 3rd edition, 1986., Rev. 1, December 1987.

SM: see "Standard Methods for the Examination of Water & Wastewater, 17th Edition, APHA, 1989.

Revised September, 1993
abb.93

Chain-of-Custody Number: A 8516

SEACOR Chain-of-Custody Record

7582

Address
SEACOR
1390 WILLOW PASS RD. #360
CONCORD, CA. 94520

Project # 70005-009-02 Task # ____
Project Manager G. HOLTON
Laboratory NET
Turn-around time: ____

Sampler's Name: R. RAVERA
Sampler's Signature: [signature]

Analysis Request

Sample ID	Date	Time	Matrix	TPHg/BTEX 8015 (modified)/8020	TPHd 8015 (modified)	TPH 418.1	Aromatic Volatiles 602/8020	Volatile Organics 624/8240 (GC/MS)	Halogenated Volatiles 601/8010	Semi-volatile Organics 625/8270 (GC/MS)	Pesticides/PCB's 608/8080	Total Lead 7421	Priority Pollutant Metals (13)	TCLP Metals	TPH-as-Mineral Spirits BTEX			Comments/ Instructions	Number of Containers
MW-1	1/20/94	11:30	W						X						X				6
MW-2	1/20/94	10:45	W						X						X				6
MW-3	1/19/94	14:35	W						X						X				6
MW-4	1/20/94	9:05	W						X						X				6
MW-5	1/20/94	9:55	W						X						X			CUSTODY SEALED 1/21/94 G.P. Lumbre intact	6
MW-6	1/19/94	13:35	W						X						X				6
MW-8	1/20/94	12:45	W						X						X				6
MW-10	1/19/94	12:15	W						X						X				6
MW-11	1/19/94	11:30	W						X						X				6
MW-12	1/19/94	10:40	W						X						X				6

Special Instructions/Comments:

Temp Rec'd: 2.6°C

RM541C38347551

Relinquished by:
Sign [signature]
Print R. RAVERA
Company SEACON
Time 10:16 Date 1/21/94

Received by:
Sign [signature]
Print G P LUMBRE
Company NET
Time 10:19 Date 1/21/94

Relinquished by:
Sign [signature]
Print G P LUMBRE
Company NET
Time 17:00 Date 1/21/94

Received by:
Sign [signature]
Print K. Temple
Company NES
Time 1000 Date 1/22/94

via NCS

Sample Receipt

Total no. of containers	
Chain of custody seals:	
Rec'd good condition/cold:	
Conforms to record:	

Client: ____
Client Contact: ____
Client Phone Number: ____

Date ___ / ___ / ___ Page ___ of ___