

report missing



January 15, 1997

Via Certified Mail No. P563448342

Mr. Robert M. Senga, Unit Chief
California Environmental Protection Agency
Department of Toxic Substances Control
Facility Permitting Branch
245 West Broadway, Suite 425
Long Beach, California 90802-4444

Re: **Safety-Kleen Corp. Service Center**
400 Market Street
Oakland, California

Dear Mr. Senga:

Enclosed is the [redacted] monitoring and sampling report for [redacted] which summarizes the groundwater monitoring and vapor extraction activities conducted at the above-referenced facility. This report covers the period from September through November 1996. Safety-Kleen is following the modified groundwater sampling schedule as described in the letter submitted on July 13, 1994, and as modified and approved by Alameda County in a response letter dated July 27, 1994. A comparison of laboratory analytical results of groundwater samples collected prior to purging the wells versus the standard post-purge results is also included in the report.

If you have any questions, please call me at (503) 655-2769.

Sincerely,

Chip Prokop
Senior Project Manager - Remediation
Safety-Kleen Corp.

Enclosure

cc: Keith Marcott, Safety-Kleen Corp.
Scott Davies, Safety-Kleen Corp.
Branch Environmental File (7-178-01)
Jennifer Eberle, Alameda County - Department of Environmental Health
Steven Ritchie, California Regional Water Quality Control Board
Greg Hoehn, SECOR

OAKLAND7.L19
January 15, 1997
SECOR Job No. 70005-009-07

**QUARTERLY GROUNDWATER MONITORING
AND SOIL VAPOR EXTRACTION
REPORT
SAFETY-KLEEN SERVICE CENTER
400 MARKET STREET
OAKLAND, CALIFORNIA**

SECOR Job No. 70005-009-07

Prepared For:
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16540 S.E. 130th Avenue
Clackamas, Oregon 97015

Jan 15, 97

Submitted By:
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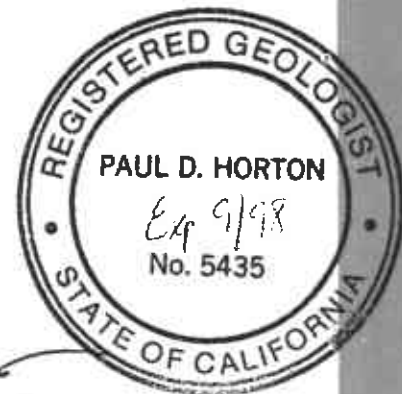
January 15, 1997

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1.0 INTRODUCTION

This report presents the results of groundwater monitoring and sampling activities conducted for the quarter of September through November 1996 at the Safety-Kleen Service Center located at 400 Market Street in Oakland, California (Figures 1 and 2). Also included are the results of soil vapor extraction (SVE) system monitoring and sampling for the period. In addition to the normal quarterly groundwater sampling activities, a second set of groundwater samples were collected during this event to compare the analytical results of groundwater samples collected after completing standard hand bailing methods with those of groundwater samples collected prior to purging the wells. A detailed description of the sample methods used is detailed in Section 3.3 and a discussion of the results of the study are included in Section 4.4 of this report.

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-gallons double-walled tanks in June and July of 1990. Product and waste mineral spirits are currently stored in the two double-walled USTs at the site. One UST is used to consolidate waste mineral spirits prior to shipment to a Safety-Kleen Recycle Center and one UST is used for storage of product mineral spirits prior to 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. The product pumping system was removed on November 20, 1995, and replaced with a passive hydrocarbon skimming device which is capable of removing product thickness within the well to a sheen.

The SVE system consists of seven horizontal vapor extraction lines and a vapor extraction and treatment system. A system to extract and treat soil vapor utilizing regenerative polymer adsorption began full-scale operation on June 1, 1993. The SVE system was modified and restarted on November 28, 1995, utilizing the current granular activated carbon (GAC) treatment system. Figure 3 depicts the layout of the vapor extraction lines and the vapor treatment system.

3.0 SCOPE OF WORK

Groundwater monitoring work conducted during this quarter consisted of product recovery and the monitoring of nine groundwater monitoring wells and one recovery well and the sampling of five groundwater monitoring wells as specified by the quarterly sampling schedule. One well (MW-12) could not be accessed during this event and therefore, was not monitored or sampled. SVE activities conducted during this quarter consisted of the operation and maintenance of the SVE system. The following sections provide a description of the work steps conducted.

3.1 Soil Vapor Extraction System

The SVE system consists of two 1,500-pound granular active carbon vessels connected in series to a manifold attached to the seven horizontal vapor extraction lines. While the SVE system is operating, monitoring occurs bi-weekly and consists of measuring influent and effluent concentrations using a photo-ionization detector (PID) or a flame-ionization detector (FID). SVE system influent and effluent vapor samples are collected monthly. During this quarter, SVE system influent and effluent vapor samples were collected on September 26, October 10, October 22 and November 13, 1996. The vapor samples were submitted to a state-certified analytical laboratory under chain-of-custody manifest and analyzed for total petroleum hydrocarbons as mineral spirits (TPHms) by modified U.S. Environmental Protection Agency (EPA) Method 8015 and for volatile organic compounds (VOCs) by EPA Method 8010. The results of the SVE system operation and sampling are presented in Section 4.1.

3.2 Mineral Spirits Recovery

The mineral spirits recovery pump that was located in recovery well RW-1 failed and was replaced by a passive recovery skimmer in November 1995. A passive recovery skimmer was also placed in monitoring well MW-9 (Figure 2) at that time. Mineral spirits recovered from recovery well RW-1 and monitoring well MW-9 is emptied directly to the waste mineral spirits UST at the site and is incorporated into the Safety-Kleen recycling process. The amount of recovered product is recorded each time the skimmer is emptied. The results of mineral spirits recovery are presented in Section 4.2.

3.3 Groundwater Monitoring and Sampling

On November 1, 1996, on-site and off-site monitoring wells were monitored for depth-to-water and groundwater samples were collected from wells MW-1, MW-2, MW-3, MW-4, and MW-8. Monitoring well MW-9 was not sampled due to the presence of a product sheen, and well MW-12 was not accessible during the event because a truck was parked over the wellhead. Monitor well MW-11 was not monitored because tree roots have grown through the well casing and are obstructing the well. For this event, two

sets of groundwater samples were collected in order to compare the results of laboratory analytical results of samples collected using standard purging methods with those of samples collected prior to purging the wells. Pre-purge and post-purge groundwater samples were collected using the following procedures.

All accessible monitoring wells were monitored for depth-to-water using a water level indicator calibrated to 0.01-foot. During depth-to-water monitoring, care was taken to not splash or over immerse the probe. Depth-to-bottom measurements were not made prior to pre-purge groundwater sample collection. The depth-to-water measurements were used with well survey data to construct a potentiometric surface map (Figure 4).

Subsequent to collecting depth-to-water measurements and prior to purging, monitoring wells MW-1, MW-2, MW-3, MW-4, and MW-8 were sampled. Groundwater samples were collected from each well using a new disposable bailer which was slowly submerged approximately 36 inches below the water surface taking care not to splash the bailer in the water column. Samples were decanted into laboratory supplied sample vessels from the bottom of the bailer using a VOC-type bottom emptying device. The samples were then labeled, placed on ice in an insulated cooler, and logged onto the chain-of-custody manifest.

Subsequent to collecting the pre-purge samples, the wells were purged by hand-bailing until a minimum of three well volumes of groundwater had been removed or until measurements of pH, temperature, and conductivity had stabilized. Within two hours of completing well purging, the groundwater levels had recovered to at least 80 percent of the original level in the wells and groundwater samples were collected using new single-use disposable samplers as described above. The samples were placed into laboratory supplied sample containers in the same manner as the pre-purge samples, labeled, placed on ice in an insulated cooler, and logged onto the chain-of-custody manifest. Field data sheets that include depth-to-water measurements and well purge data are included in Appendix A.

The groundwater samples were delivered to a state-certified laboratory for analysis under chain-of-custody documentation. The groundwater samples were analyzed for the presence of benzene, toluene, ethylbenzene and xylenes (BTEX) by EPA Method 8020, for TPHms by modified EPA Method 8015, and for halogenated VOCs by EPA Method 8010.

Prior to use and between each well, all non-single-use 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 labeled containers pending transport for treatment at a Safety-Kleen facility.

4.0 RESULTS

4.1 Soil Vapor Extraction System

The results of SVE system monitoring conducted through November 13, 1996, are summarized on Table 1. Table 1 presents data on the system flow rate and PID measurements from the SVE system influent, the effluent after each carbon adsorption vessel, and the system effluent. Based on the analytical data and subsequent monitoring data, the GAC system is sufficiently removing organic vapors to below the 10 ppmv permit requirement.

For this quarter, SVE system influent and effluent vapor samples were collected on September 26, October 10, October 22 and November 13, 1996. No TPHms, benzene, toluene, ethylbenzene or VOC analytes were detected in any of the system effluent samples collected during this quarter. Total xylenes were detected at 0.5 $\mu\text{g}/\ell$ in the September 26 effluent sample, 0.8 $\mu\text{g}/\ell$ in the October 22 effluent sample, and at 0.9 $\mu\text{g}/\ell$ in the November 13 effluent sample. The laboratory analyses of system influent samples detected TPHms concentrations of 1,300 $\mu\text{g}/\ell$ on September 26, 880 $\mu\text{g}/\ell$ on October 10, 670 $\mu\text{g}/\ell$ on October 22, and 460 $\mu\text{g}/\ell$ on November 13. Xylenes were detected in each of the influent samples collected during the quarter at 4.5 $\mu\text{g}/\ell$, 2.1 $\mu\text{g}/\ell$, 3.66 $\mu\text{g}/\ell$ and 2.6 $\mu\text{g}/\ell$ respectively. Tetrachloroethene (PCE) was detected at a concentration of 360 $\mu\text{g}/\ell$ in the October 10 influent sample. No other analytes were detected in the influent samples collected during the quarter. Copies of soil vapor extraction system 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, the removal rate for each of the sampling events was estimated to range from 9.05 pounds per day (lbs/day) to 3.94 lbs/day. Data collected through November 13, 1996, indicate 4601.9 pounds of mineral spirits have been removed from the subsurface by the SVE system.

4.2 Mineral Spirits Recovery

Mineral spirits product is collected in monitoring well MW-9 and recovery well RW-1 via passive recovery skimmers and by hand bailing at the time of SVE monitoring and groundwater sampling. No product accumulated in the skimmers during this reporting period. The total volume of mineral spirits product removed from the subsurface to date is approximately 144.25 gallons. The mineral spirits recovery data is shown in Table 3.

4.3 Groundwater Elevations

Groundwater elevations and depth-to-water measurements for the November 1, 1996, event are presented in Table 4. The average water table elevation on November 1, 1996, was 1.05 feet above mean sea level, a decrease of 1.09 feet since the July 1996 event. A potentiometric surface map prepared with the November 1, 1996, data is presented as Figure 4.

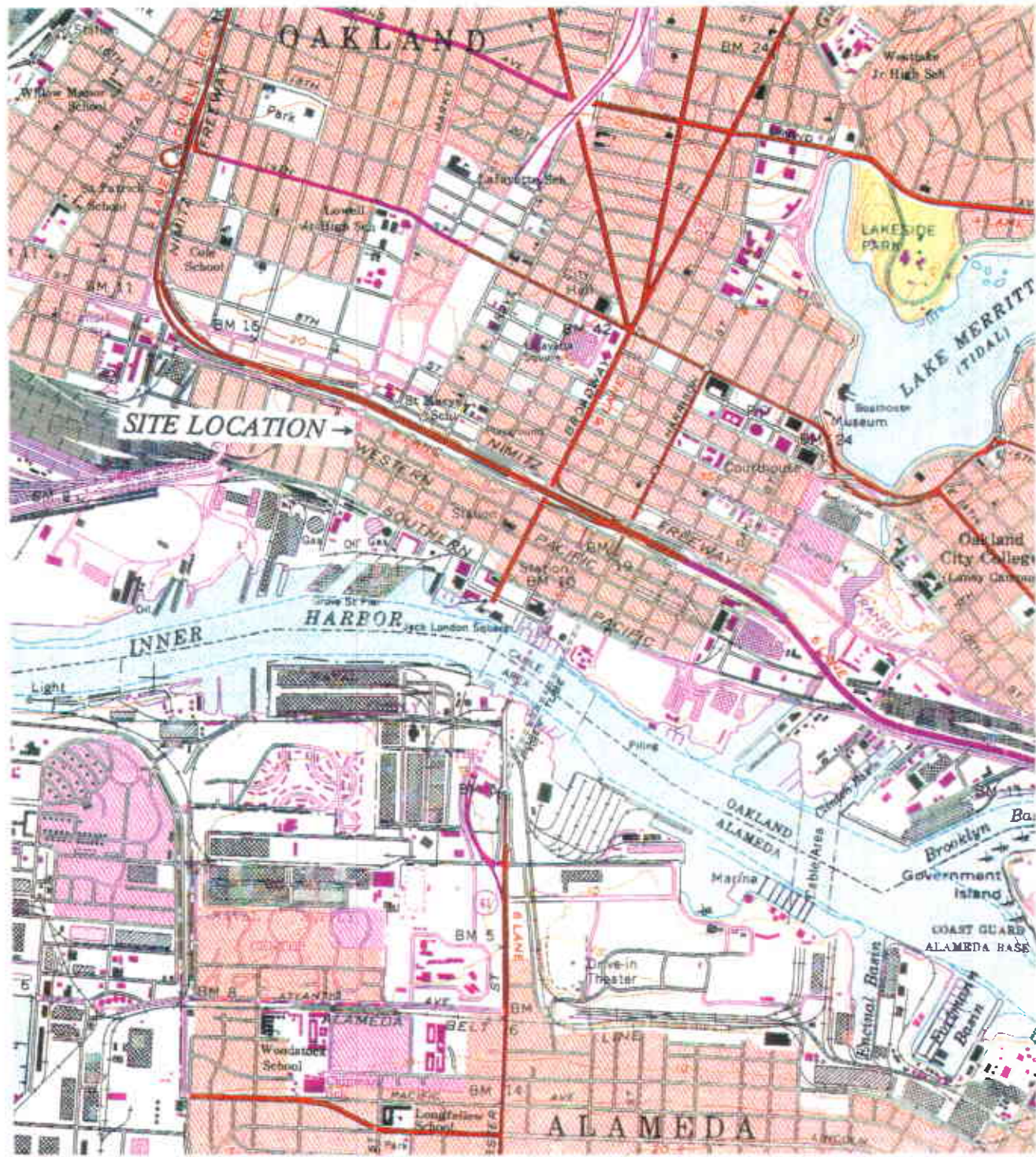
As shown in Figure 4, the groundwater flow direction remains to the south and southwest, consistent with historic site data. The hydraulic gradient was 0.003 feet/foot (ft/ft) across the site as measured between monitoring wells MW-4 and MW-2. The gradient is the same as that measured during the last event and is consistent with previous data for the site. A summary of groundwater elevations since January 1993 is provided as Table 5.

4.4 Groundwater Conditions

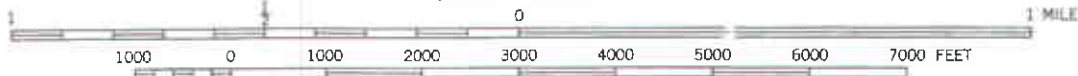
This discussion of groundwater conditions at the site is based on the results of analysis of **post-purge samples**. A comparison of post-purge versus pre-purge sample analytical data is provided later in this section. No concentrations of TPHms or BTEX were detected above the laboratory detection limits in any of the groundwater samples collected on November 1, 1996. In addition, no VOCs were detected in the groundwater samples from monitoring wells MW-1 and MW-2. Laboratory analyses of post-purge groundwater samples from monitoring wells MW-3, MW-4, and MW-8 detected several VOCs at concentrations exceeding the detection limits. The compounds detected were *cis*-1,2-dichloroethene (DCE), *trans*-1,2-DCE, 1,1-DCE, 1,1-dichloroethane (DCA), 1,2-DCA, trichloroethene (TCE), PCE, chloroform, vinyl chloride, chlorobenzene, 1,2-dichlorobenzene (DCB), and 1,4-DCB. **The distribution of VOCs detected at the site is consistent with historical data.** Figure 5 depicts the chemical distribution in the **post-purge samples** collected on November 1, 1996. A summary of analytical test results showing compounds detected since the April 1993 sampling event are presented in Table 6. Copies of the groundwater laboratory analytical reports are included in Appendix C.

Two sets of groundwater samples were collected during this event in order to compare the results of laboratory analytes of pre-purge and post-purge groundwater samples. **The results of analysis of pre-purge and post-purge samples are summarized in Table 7.** The table lists the analytes detected in each sample and shows a relative percent difference (RPD) calculation for each sample pair. As shown in the table, the types and concentrations of analytes are consistent in most cases. Of the 22 detection pairs, 54 percent of the pre-purge detections contained higher concentrations as compared to post-purge detections. Of the 14 compounds detected, four compounds were only detected in the pre-purge samples and not in the post-purge samples. The relative percent difference between sample pairs was high in several data pairs from monitoring well MW-8, but may be the result of laboratory dilution of the post-purge sample and not the pre-purge sample. **A more thorough analysis of the statistical significance of pre- and post-purge sample pair analyses will be presented after several sample events have been performed.**

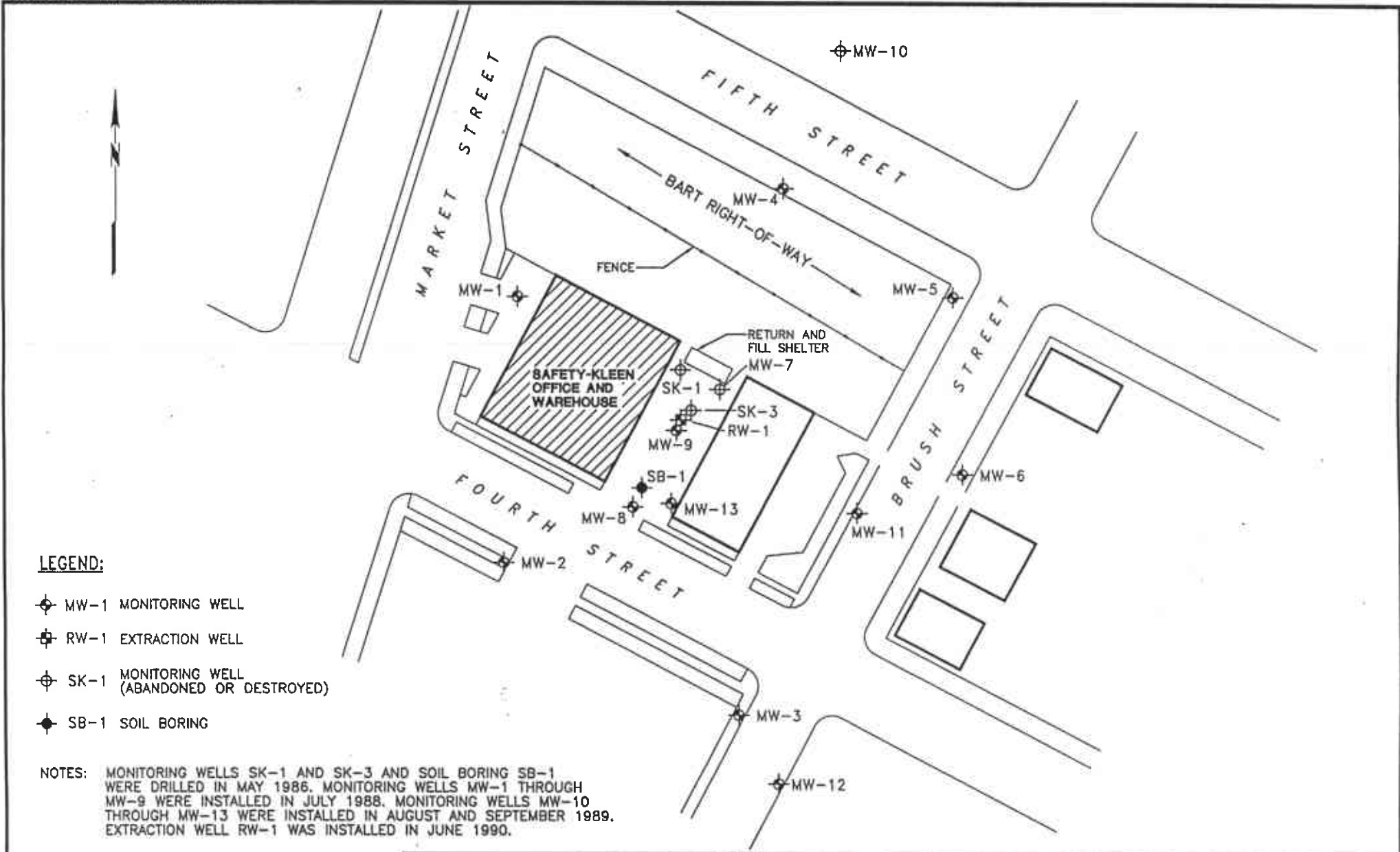
OAKLAND WEST QUADRANGLE
California
7.5 Minute Series (Topographic)



SCALE 1:24 000



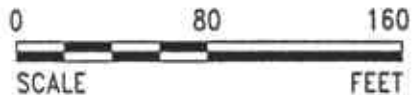
DRAFTED BY: TS	CHECKED BY: GDH	PROJECT NO. 70005-009	FIGURE 1	SECOR 1390 Willow Pass Road Suite 360 Concord, CA 94520
DWG. DATE: 04-05-94	REV. DATE: 06-15-95			
FILE NAME: Oakland7.F01				



LEGEND:

- ⊕ MW-1 MONITORING WELL
- ⊕ RW-1 EXTRACTION WELL
- ⊕ SK-1 MONITORING WELL (ABANDONED OR DESTROYED)
- ⊕ SB-1 SOIL BORING

NOTES: MONITORING WELLS SK-1 AND SK-3 AND SOIL BORING SB-1 WERE DRILLED IN MAY 1986. MONITORING WELLS MW-1 THROUGH MW-9 WERE INSTALLED IN JULY 1988. MONITORING WELLS MW-10 THROUGH MW-13 WERE INSTALLED IN AUGUST AND SEPTEMBER 1989. EXTRACTION WELL RW-1 WAS INSTALLED IN JUNE 1990.

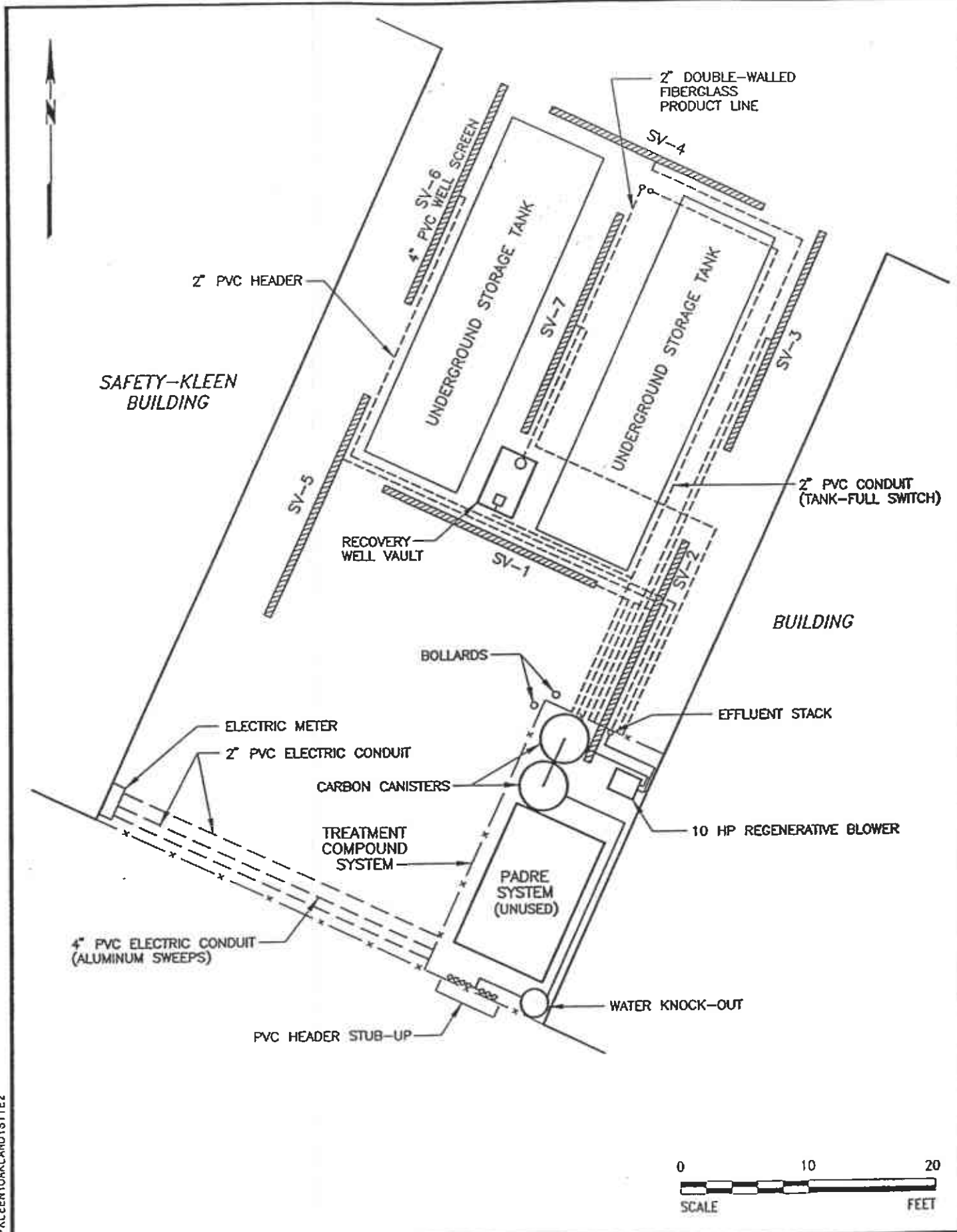


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FIGURE 2
SAFETY-KLEEN SERVICE CENTER
400 MARKET STREET
OAKLAND, CALIFORNIA

SITE PLAN

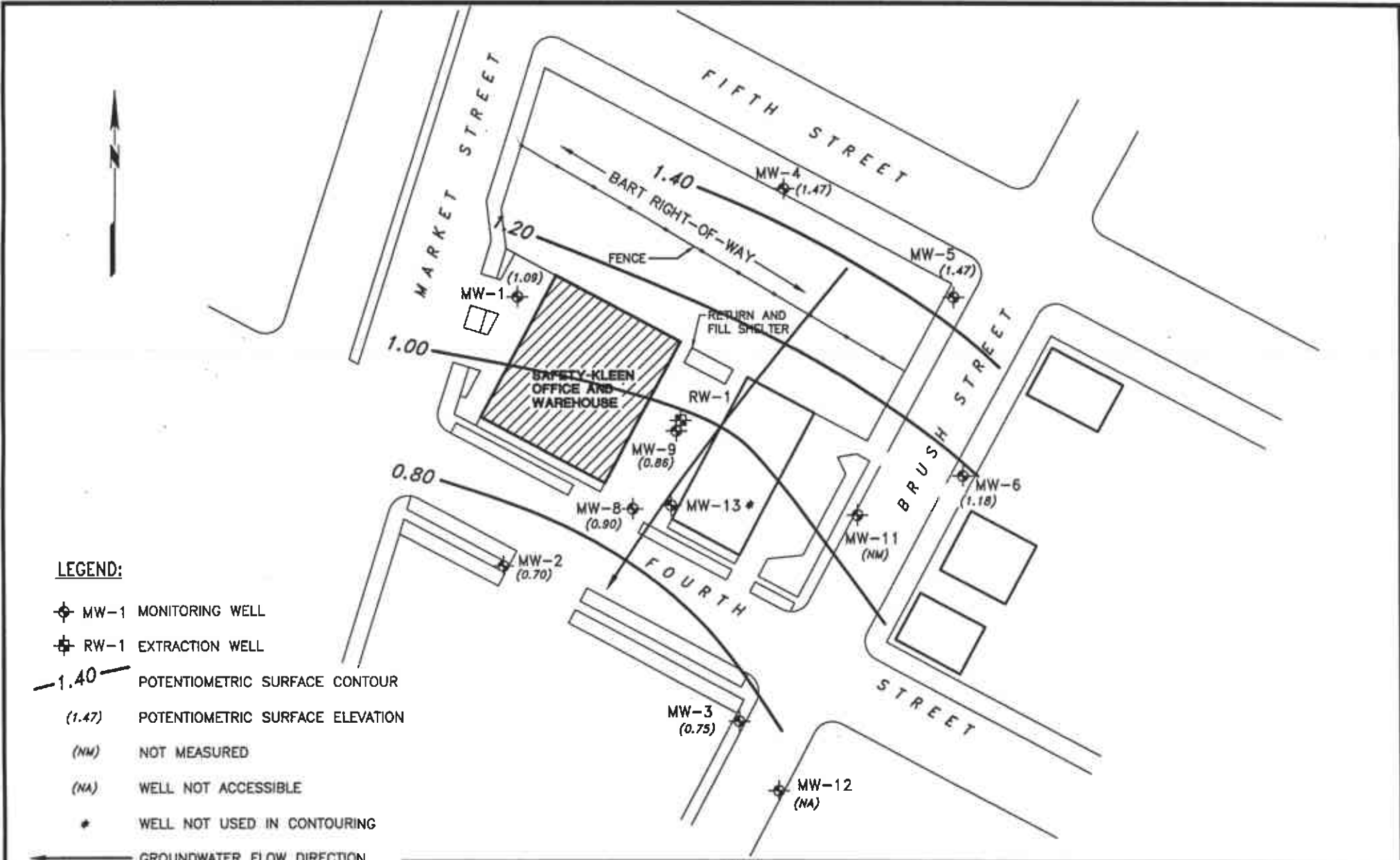


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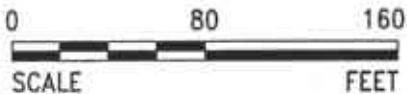
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DATE	08DEC95
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FIGURE 3
SAFETY-KLEEN SERVICE CENTER
400 MARKET STREET
OAKLAND, CALIFORNIA
**SOIL VAPOR EXTRACTION
SYSTEM LAYOUT**



LEGEND:

- ⊕ MW-1 MONITORING WELL
- ⊕ RW-1 EXTRACTION WELL
- 1.40 — POTENTIOMETRIC SURFACE CONTOUR
- (1.47) POTENTIOMETRIC SURFACE ELEVATION
- (NM) NOT MEASURED
- (NA) WELL NOT ACCESSIBLE
- * WELL NOT USED IN CONTOURING
- ← GROUNDWATER FLOW DIRECTION



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FIGURE 4
 SAFETY-KLEEN SERVICE CENTER
 400 MARKET STREET
 OAKLAND, CALIFORNIA
POTENTIOMETRIC SURFACE MAP
NOVEMBER 1, 1996

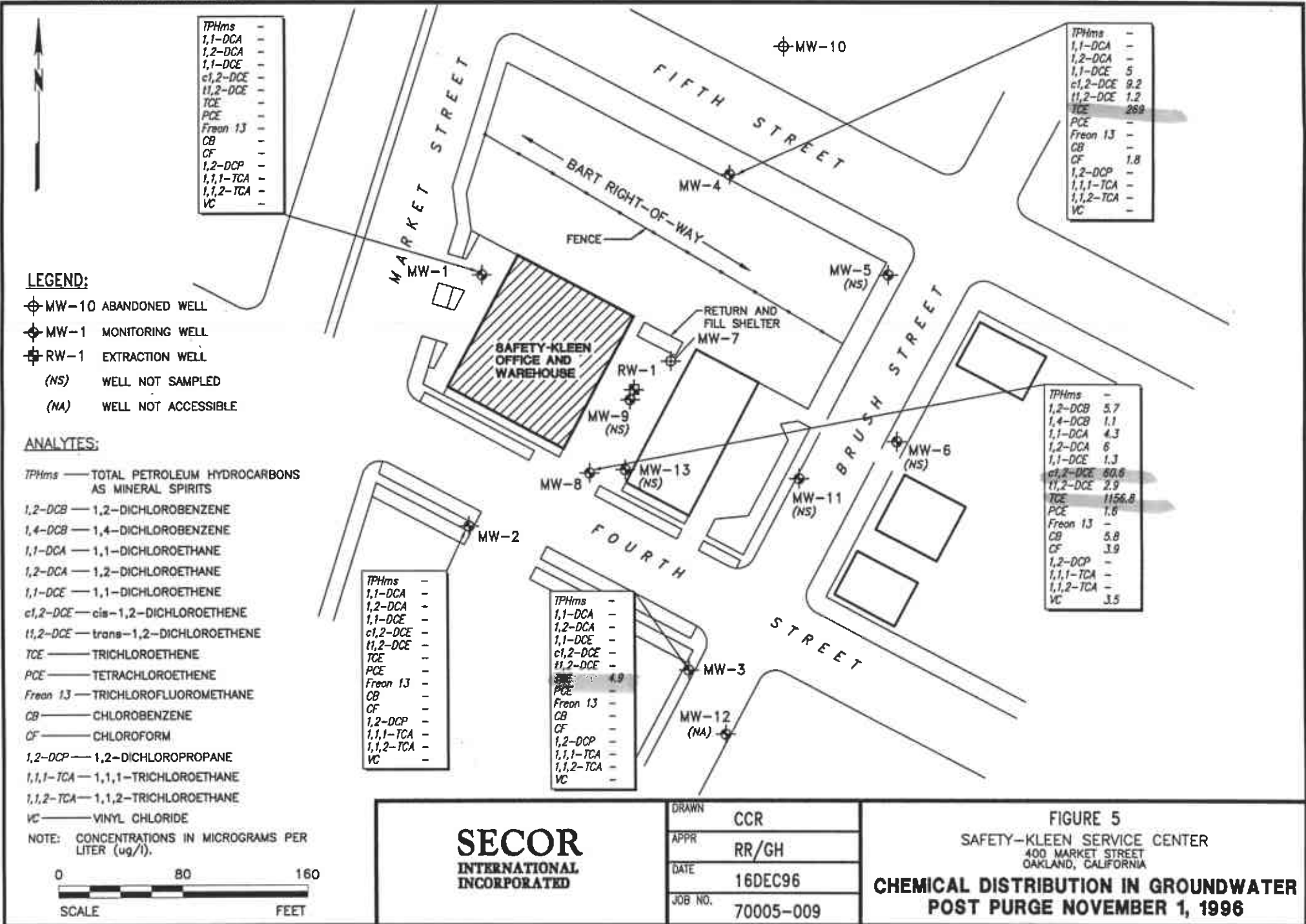


Table 1

Soil Vapor Extraction System Monitoring Data

Safety-Kleen Service Center
 400 Market Street
 Oakland, California

Date	Elapsed Time*	SV-1 Extraction Vacuum	KO Vacuum	Extraction Flow Rate		System Influent	#1 Carbon Effluent	#2 Carbon Effluent	System Effluent	Notes
	(hours)	(inches H2O)	(inches H2O)	(ft/min)	(scfm)	(PID units)	(PID units)	(PID units)	(PID units)	
12/8/95	362.6	6.5	22	5000	107	413	3.1	4.6	6.4	* System restarted using carbon adsorption on 11/28/95.
12/21/95	677.2	6	20	5000	107	79.5	36.2	1.2	1.2	Influent and Effluent samples collected
1/9/96	1134.2	9	22	5000	106	169	42.4	2.8	1.7	Influent and Effluent samples collected
1/24/95	1488.75	5.5	17	2200	47	43	43.2	24.2	6.1	
2/6/96	1803.3	5	16	6000	129	63.4	61.1	33.4	16.1	Influent and Effluent samples collected
2/21/96	2157.55	8	20	5500	117	60.1	48	38.2	8.4	
3/8/96	2540.1	10	23	5000	106	183.7	52.3	44.8	15.5	Influent and Effluent samples collected
3/20/96	2635.2	12	23	5000	106	430	362.1	311.4	22.4	
4/3/96	2905.9	12	25	5000	106	290	45	32	2	FID used, Influent and Effluent samples collected, Carbon changed.
4/18/96	3267.7	11	24	5000	106	500	30	9	3	FID used.
5/2/96	3594	NA	24	5000	109	109.3	44.5	0.2	0.2	Influent and Effluent samples collected
5/16/96	3934.3	NA	23	5000	109	117.3	150.9	3.2	1	
5/31/96	4289.2	0.15	25	5000	109	53.7	61	0.7	0	Influent and Effluent samples collected
7/1/96	5038.8	11	23	5000	106	325	150	75	37	Influent and Effluent samples collected
7/17/96	5421.7	10	24	5000	106	159	160	163	33	System shut down for carbon replacement
8/20/96	5423.6	7	17	3200	68	300	0	0	0	System restarted with new carbon
8/22/96	5469.5	7	17	3000	64	300	1.4	1.4	0	Influent and Effluent samples collected
9/3/96	5760.1	0.15	16	3500	76	131.2	0	0	0	
9/26/96	6315.5	8	15	3550	76	165	30	1.2	2.2	Influent and Effluent samples collected
10/3/96	6478.1	8	15	3000	64	231	70	42	13	
10/10/96	6644.7	8	15	3500	75	269.4	189	20.5	12.5	Influent and Effluent samples collected
10/22/96	6938.9	7	15	3000	64	480	442	1.8	1.2	Influent and Effluent samples collected
10/29/96	71040	8	16	4000	85	148.8	142.7	7.5	1.2	
11/13/96	7466.6	8	16	3500	75	120	90	40	8	Influent and Effluent samples collected

Notes: ft/min = feet per minute
 scfm = standard cubic feet per minute assuming ambient temperature and ideal gas
 NA = not available

Table 2
Soil Vapor Extraction System
Mineral Spirits Removal
 Safety-Kleen Service Center
 400 Market Street
 Oakland, California

Sample Date	Elapsed Time	Run Time This Period	Extraction Flow Rate	TPHms Influent	Removal Rate	TPHms Removed	Notes
	(hours)	(hours)	(cfm)	(ug/L)	(lbs./day)	(lbs.)	
11/28/95	Carbon adsorbtion system start-up					1798.4	TPHms removed by prior system.
12/21/95	677.2	677.2	109.1	823	8.07	2026.0	
1/9/96	1134.2	457	109.1	1116	10.95	2234.4	
2/6/96	1803.3	669.1	130.9	999	11.75	2562.1	
3/8/96	2540.1	736.8	109.1	1821	17.86	3110.4	
4/3/96	2905.9	365.8	109.1	1116	10.95	3277.2	
5/2/96	3594	688.1	109.1	1586	15.56	3723.2	
5/31/96	4289.2	695.2	109.1	1234	12.10	4073.6	
7/1/96	5038.8	749.6	109.1	82	0.81	4098.8	
8/22/96	5469.5	430.7	65.4	500	2.94	4151.6	
9/26/96	6315.5	846	77.4	1300	9.05	4470.7	
10/10/96	6644.7	1175.2	76.4	880	6.04	4447.4	
10/22/96	6938.9	623.4	65.4	670	3.94	4573.1	
11/13/96	7466.6	821.9	109.1	460	4.51	4601.9	

Notes: cfm = cubic feet per minute
 ug/L = micrograms per liter
 lbs = pounds

Table 3
Free Product Recovery System
Mineral Spirits Removal Summary

Safety-Kleen Service Center
 400 Market Street
 Oakland, California

Date	Product Recovery		
	This Period	Total	
	(gallons)	(gallons)	(pounds)
1/1/89	15	30.0	196.5
1/31/89	15	45.0	294.8
3/2/89	15	60.0	393.0
4/1/89	15	75.0	491.3
5/1/89	15	90.0	589.5
5/31/89	15	105.0	687.8
6/30/89	15	120.0	786.0
7/30/89	15	135.0	884.3
8/29/89	15	150.0	982.5
9/28/89	15	165.0	1080.8
10/28/89	15	180.0	1179.0
11/27/89	15	195.0	1277.3
12/27/89	15	210.0	1375.5
1/26/90	15	225.0	1473.8
2/25/90	15	240.0	1572.0
3/27/90	15	255.0	1670.3
4/26/90	15	270.0	1768.5
5/26/90	15	285.0	1866.8
6/25/90	15	300.0	1965.0
1/19/93	0	300	1965.0
2/25/93	6.5	306.5	2007.6
5/20/93	4.3	310.8	2035.7
8/27/93	0	310.8	2035.7
10/24/93	10.3	321.1	2103.2
2/28/94	22.6	343.7	2251.2
5/31/94	16.6	360.3	2360.0
8/31/94	16.4	376.7	2467.4
11/30/94	16.2	392.9	2573.5
2/28/95	16	408.9	2678.3
5/31/95	16.6	425.5	2787.0
8/31/95	16.6	442.1	2895.8
11/30/95	0	442.1	2895.8
1/9/96	0.75	442.85	2900.7
3/20/96	0.75	443.6	2905.6
5/2/96	0.03	443.63	2905.8
5/16/96	0.55	444.18	2909.4
5/31/96	0.05	444.23	2909.7
7/1/96	0.02	444.25	2909.8
9/3/96	0	444.25	2909.8
10/10/96	0	444.25	2909.8
10/29/96	0	444.25	2909.8
11/1/96	0	444.25	2909.8

Note: Data shown in smaller text is estimated based on previous reports.

TABLE 4
Groundwater Monitoring Data
April 2, 1996

Well I.D.	TOC Elevation (ft msl)	DTW (ft)	DTP (ft)	PT (ft)	Adjusted Elevation (ft msl)
MW-1	7.99	6.90	-	-	1.09
MW-2	8.20	7.50	-	-	0.70
MW-3	6.66	5.91	-	-	0.75
MW-4	10.32	8.85	-	-	1.47
MW-5	10.28	7.79	-	-	1.47
MW-6	8.97	6.90	-	-	1.18
MW-8	7.80	7.35	-	-	0.90
MW-9	8.21	7.35			0.86
MW-10*	-	-	-	-	-
MW-11	7.91	NM	-	-	-
MW-12	6.74	NM	-	-	-
MW-13	8.08	7.30	-	-	0.78
RW-1	-	6.12	6.09	0.03	-

TOC = Top of casing
 DTW = Depth-to-water
 DTP = Depth-to-product (separate-phase hydrocarbons)
 PT = product thickness
 Elevation = Adjusted groundwater elevation
 ft msl = Measurement in feet (ft) relative to mean sea level (msl)
 * = Well destroyed July 1995
 NM = Well not accessible

Table 5
Historical Summary of Groundwater Elevations

Safety-Kleen Service Center
 400 Market Street
 Oakland, California

Date	Well Identification											
	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-8	MW-9	MW-10	MW-11	MW-12	MW-13
Jan-93	1.29	1.00	0.86	1.57	1.48	1.27	1.08	1.15	1.73	1.16	0.44	0.58
Apr-93	1.09	0.51	0.38	1.52	1.42	1.08	0.74	0.95	1.85	0.90	0.10	0.40
Jul-93	0.27	-0.23	-0.27	0.68	0.62	0.37	-0.01	-0.68	0.99	0.20	-0.72	-0.15
Oct-93	-0.02	-0.51	-0.66	0.32	0.17	-0.12	-0.35	0.14	0.62	-0.22	-0.91	-0.57
Jan-94	-0.01	-0.52	-0.77	0.33	0.48	-0.10	-0.37	-0.49	0.60	-0.14	-1.05	-0.65
Apr-94	0.55	0.05	-0.09	0.85	0.74	0.46	0.22	0.33	-	0.34	-0.76	-0.09
Jul-94	0.25	-0.20	-0.31	0.62	0.55	0.23	-0.03	0.08	0.90	0.09	-0.70	-0.22
Oct-94	0.08	-0.33	-0.44	0.41	0.38	0.12	-0.15	0.01	-	0.01	-0.59	-0.33
Jan-95	1.95	1.53	1.64	2.41	2.49	2.24	1.79	1.85	-	2.06	1.44	1.33
Apr-95	3.09	2.46	2.49	3.71	3.73	3.42	2.79	2.95	-	3.18	2.22	1.98
Jul-95	2.04	1.53	1.53	2.54	2.50	2.26	1.76	1.93	-	2.01	1.33	1.53
Oct-95	1.38	0.94	1.01	1.81	1.27	1.56	1.15	1.32	-	1.42	0.94	1.06
Jan-96	1.82	1.40	0.64	2.21	2.21	2.04	1.61	1.54	-	1.85	-	1.51
Apr-96	2.81	2.40	2.46	3.33	3.36	3.17	2.58	2.51	-	2.91	2.24	2.38
Jul-96	2.16	1.70	1.75	2.67	2.63	2.35	1.90	1.93	-	2.18	NM	1.84
Nov-96	1.09	0.70	0.75	1.47	1.47	1.18	0.90	0.86	-	-	NM	0.78

Notes:
 Groundwater elevations are relative to mean sea-level datum
 - = Not measured

**TABLE 6
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
DETECTED COMPOUNDS**

Safety-Kleen Service Center
400 Market Street
Oakland, California

Well No.		MW-1															
Date		04-93	07-93	10-93	01-94	04-94	07-94	10-94	01-95	04-95	07-95	10-95	01-96	04-96	07-96	11-96	
Compound	MCL	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)**	(ug/l)
TPH-mineral spirits	NE	-	-	-	-	-	NS	-	NS	-	NS	-	NS	-	NS	-	-
Benzene	1	-	-	-	-	-	NS	-	NS	-	NS	-	NS	-	NS	-	-
Toluene	150	-	-	-	-	-	NS	-	NS	-	NS	-	NS	-	NS	-	-
Ethyl-benzene	700	-	-	-	-	-	NS	-	NS	-	NS	-	NS	-	NS	-	-
Xylenes	1750	-	-	-	-	-	NS	-	NS	-	NS	-	NS	-	NS	-	-
1,1-Dichloroethene	6	-	-	-	-	-	NS	-	NS	-	NS	-	NS	-	NS	-	-
1,1-Dichloroethane	5	-	-	-	-	-	NS	-	NS	-	NS	-	NS	-	NS	-	-
1,2-Dichloroethane	0.5	-	-	-	-	-	NS	-	NS	-	NS	-	NS	-	NS	-	-
cis-1,2-Dichloroethene	6	-	-	-	-	-	NS	-	NS	-	NS	-	NS	-	NS	-	-
trans-1,2-Dichloroethene	10	-	-	-	-	-	NS	-	NS	-	NS	-	NS	-	NS	-	-
Chloroform	NE	-	-	-	-	-	NS	-	NS	-	NS	-	NS	-	NS	-	-
1,1,1-Trichloroethane	200	-	-	-	-	-	NS	-	NS	-	NS	-	NS	-	NS	-	-
Trichloroethene	5	-	-	-	-	-	NS	-	NS	-	NS	-	NS	-	NS	-	-
Tetrachloroethene	5	-	-	-	-	-	NS	-	NS	0.7	NS	-	NS	-	NS	-	-
Chlorobenzene	70	-	-	-	-	-	NS	-	NS	-	NS	-	NS	-	NS	-	-
1,2-Dichloropropane	5	-	-	-	-	-	NS	-	NS	-	NS	-	NS	-	NS	-	-
1,2-Dichlorobenzene	600	-	-	-	-	-	NS	-	NS	-	NS	-	NS	-	NS	-	-
1,4-Dichlorobenzene	5	-	-	-	-	-	NS	-	NS	-	NS	-	NS	-	NS	-	-
Trichlorofluoromethane	150	-	-	-	-	-	NS	-	NS	-	NS	-	NS	-	NS	-	-
Dichlorodifluoromethane	NE	-	-	-	-	-	NS	-	NS	-	NS	-	NS	-	NS	-	-
Vinyl chloride	0.5	-	-	-	-	-	NS	-	NS	-	NS	-	NS	-	NS	-	-

Well No.		MW-2															
Date		04-93	07-93	10-93	01-94	04-94	07-94	10-94	01-95	04-95	07-95	10-95	01-96	04-96	07-96	11-96	
Compound	MCL	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)**	(ug/l)
TPH-mineral spirits	NE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethyl-benzene	700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes	1750	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform	NE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane	NE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 6
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
DETECTED COMPOUNDS

Safety-Kleen Service Center
 400 Market Street
 Oakland, California

Well No.		MW-3															
Date		04-93	07-93	10-93	01-94	04-94	07-94	10-94	01-95	04-95	07-95	10-95	01-96	04-96	07-96	11-96	
Compound	MCL	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)**	(ug/l)
TPH-mineral spirits	NE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethyl-benzene	700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes	1750	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	6	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
trans-1,2-Dichloroethene	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform	NE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	5	0.7	-	-	-	-	-	-	-	-	-	-	-	-	-	1.6	4.9
Tetrachloroethene	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane	150	-	-	-	-	1.8	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane	NE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Well No.		MW-4															
Date		04-93	07-93	10-93	01-94	04-94	07-94	10-94	01-95	04-95	07-95	10-95	01-96	04-96	07-96	11-96	
Compound	MCL	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)**	(ug/l)
TPH-mineral spirits	NE	-	-	* 400	* 270	* 760	* 200	* 330	-	-	-	-	-	-	-	-	-
Benzene	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	150	-	-	-	-	-	-	-	-	1.2	-	-	-	-	-	-	-
Ethyl-benzene	700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes	1750	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	6	-	-	-	-	-	-	-	0.7	0.8	5.2	4	3	6	4.8	5.1	5
1,1-Dichloroethane	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	6	-	-	-	-	-	-	-	-	-	11.8	-	17	10	11.3	5.1	9.2
trans-1,2-Dichloroethene	10	-	53	0.6	1.1	1.7	-	-	1.4	1	3.2	3	4	1.7	1.2	-	1.2
Chloroform	NE	7.6	-	1.9	-	5.0	-	-	-	-	-	3	6	1.3	1.8	1.6	1.8
1,1,1-Trichloroethane	200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.1	-
Trichloroethene	5	2400	1100	-	790	1600	410	650	700	440	247	207	157	140	224	242.4	269
Tetrachloroethene	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.2	-
1,2-Dichloropropane	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane	NE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	0.5	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-

**TABLE 6
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
DETECTED COMPOUNDS**

**Safety-Kleen Service Center
400 Market Street
Oakland, California**

Well No.		MW-5															
Date		04-93	07-93	10-93	01-94	04-94	07-94	10-94	01-95	04-95	07-95	10-95	01-96	04-96	07-96	11-96	
Compound	MCL	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)**	(ug/l)
TPH-mineral spirits	NE	-	-	-	-	-	NS	NS	NS	-	NS	NS	NS	-	NS	NS	NS
Benzene	1	-	-	-	-	-	NS	NS	NS	-	NS	NS	NS	-	NS	NS	NS
Toluene	150	-	-	-	-	-	NS	NS	NS	-	NS	NS	NS	-	NS	NS	NS
Ethyl-benzene	700	-	-	-	-	-	NS	NS	NS	-	NS	NS	NS	-	NS	NS	NS
Xylenes	1750	-	-	-	-	-	NS	NS	NS	-	NS	NS	NS	-	NS	NS	NS
1,1-Dichloroethene	6	1.5	0.6	-	-	-	NS	NS	NS	-	NS	NS	NS	-	NS	NS	NS
1,1-Dichloroethane	5	-	-	-	-	-	NS	NS	NS	-	NS	NS	NS	-	NS	NS	NS
1,2-Dichloroethane	0.5	-	-	-	-	-	NS	NS	NS	-	NS	NS	NS	-	NS	NS	NS
cis-1,2-Dichloroethene	6	-	-	-	-	-	NS	NS	NS	-	NS	NS	NS	-	NS	NS	NS
trans-1,2-Dichloroethene	10	-	-	-	4.3	3.5	NS	NS	NS	-	NS	NS	NS	-	NS	NS	NS
Chloroform	NE	-	-	-	-	-	NS	NS	NS	-	NS	NS	NS	1.4	NS	NS	NS
1,1,1-Trichloroethane	200	4	6	12	-	7.2	NS	NS	NS	9.1	NS	NS	NS	-	NS	NS	NS
Trichloroethene	5	-	-	-	-	-	NS	NS	NS	-	NS	NS	NS	8.7	NS	NS	NS
Tetrachloroethene	5	-	-	-	-	-	NS	NS	NS	-	NS	NS	NS	-	NS	NS	NS
Chlorobenzene	70	-	-	-	-	-	NS	NS	NS	-	NS	NS	NS	-	NS	NS	NS
1,2-Dichloropropane	5	-	-	-	-	-	NS	NS	NS	-	NS	NS	NS	-	NS	NS	NS
1,2-Dichlorobenzene	600	-	-	-	-	-	NS	NS	NS	-	NS	NS	NS	-	NS	NS	NS
1,4-Dichlorobenzene	5	-	-	-	-	-	NS	NS	NS	-	NS	NS	NS	-	NS	NS	NS
Trichlorofluoromethane	150	18	19	-	-	7.9	NS	NS	NS	-	NS	NS	NS	4.5	NS	NS	NS
Dichlorodifluoromethane	NE	-	-	-	-	-	NS	NS	NS	-	NS	NS	NS	-	NS	NS	NS
Vinyl chloride	0.5	-	-	-	-	-	NS	NS	NS	16	NS	NS	NS	-	NS	NS	NS

Well No.		MW-6															
Date		04-93	07-93	10-93	01-94	04-94	07-94	10-94	01-95	04-95	07-95	10-95	01-96	04-96	07-96	11-96	
Compound	MCL	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)**	(ug/l)
TPH-mineral spirits	NE	-	-	-	-	-	NS	NS	NS	-	NS	NS	NS	-	NS	NS	NS
Benzene	1	-	-	-	-	-	NS	NS	NS	-	NS	NS	NS	-	NS	NS	NS
Toluene	150	-	-	-	-	-	NS	NS	NS	-	NS	NS	NS	-	NS	NS	NS
Ethyl-benzene	700	-	-	-	-	-	NS	NS	NS	-	NS	NS	NS	-	NS	NS	NS
Xylenes	1750	-	-	-	-	-	NS	NS	NS	-	NS	NS	NS	-	NS	NS	NS
1,1-Dichloroethene	6	-	-	-	-	-	NS	NS	NS	-	NS	NS	NS	-	NS	NS	NS
1,1-Dichloroethane	5	-	-	-	-	-	NS	NS	NS	-	NS	NS	NS	-	NS	NS	NS
1,2-Dichloroethane	0.5	-	-	-	-	-	NS	NS	NS	-	NS	NS	NS	-	NS	NS	NS
cis-1,2-Dichloroethene	6	-	-	-	-	-	NS	NS	NS	-	NS	NS	NS	-	NS	NS	NS
trans-1,2-Dichloroethene	10	-	-	-	-	-	NS	NS	NS	-	NS	NS	NS	-	NS	NS	NS
Chloroform	NE	-	-	-	-	-	NS	NS	NS	-	NS	NS	NS	-	NS	NS	NS
1,1,1-Trichloroethane	200	-	5	1.3	-	1	NS	NS	NS	0.4	NS	NS	NS	-	NS	NS	NS
Trichloroethene	5	-	-	-	-	-	NS	NS	NS	-	NS	NS	NS	-	NS	NS	NS
Tetrachloroethene	5	-	-	-	-	-	NS	NS	NS	-	NS	NS	NS	-	NS	NS	NS
Chlorobenzene	70	-	-	-	-	-	NS	NS	NS	-	NS	NS	NS	-	NS	NS	NS
1,2-Dichloropropane	5	-	-	-	-	-	NS	NS	NS	-	NS	NS	NS	-	NS	NS	NS
1,2-Dichlorobenzene	600	-	-	-	-	-	NS	NS	NS	-	NS	NS	NS	-	NS	NS	NS
1,4-Dichlorobenzene	5	-	-	-	-	-	NS	NS	NS	-	NS	NS	NS	-	NS	NS	NS
Trichlorofluoromethane	150	-	-	-	-	-	NS	NS	NS	-	NS	NS	NS	-	NS	NS	NS
Dichlorodifluoromethane	NE	-	-	-	-	-	NS	NS	NS	-	NS	NS	NS	-	NS	NS	NS
Vinyl chloride	0.5	-	-	-	-	-	NS	NS	NS	-	NS	NS	NS	-	NS	NS	NS

**TABLE 6
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
DETECTED COMPOUNDS**

**Safety-Kleen Service Center
400 Market Street
Oakland, California**

Well No.		MW-8															
Date		04-93	07-93	10-93	01-94	04-94	07-94	10-94	01-95	04-95	07-95	10-95	01-96	04-96	07-96	11-96	
Compound	MCL	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)**	(ug/l)
TPH-mineral spirits	NE	-	-	-	* 60	-	NS	-	-	-	-	-	-	-	-	-	-
Benzene	1	-	-	-	-	-	NS	-	-	-	-	-	-	-	-	-	-
Toluene	150	-	-	-	-	-	NS	-	-	-	-	-	-	-	-	-	-
Ethyl-benzene	700	-	-	-	-	-	NS	-	-	-	-	-	-	-	-	-	-
Xylenes	1750	-	-	-	-	-	NS	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	6	-	-	-	-	-	NS	-	-	3.5	7	19	7.2	-	-	3.2	1.3
1,1-Dichloroethane	5	3.4	-	-	8.6	3.7	NS	5.5	-	6.2	5	7	2.9	-	-	16.7	4.3
1,2-Dichloroethane	0.5	7.4	5	5.2	11	7.1	NS	-	-	9.8	10	11	5.1	-	-	9.5	6
cis-1,2-Dichloroethene	6	-	-	-	-	-	NS	-	-	25.57	63	56	63	-	-	44.5	60.6
trans-1,2-Dichloroethene	10	-	1	-	-	-	NS	-	-	2.3	6	4	2.9	-	-	1.1	2.9
Chloroform	NE	-	-	-	-	-	NS	-	-	-	-	-	13	-	-	1.7	3.9
1,1,1-Trichloroethane	200	-	-	-	2.5	1.5	NS	-	-	-	-	-	-	-	1.3	2.5	-
Trichloroethene	5	14	31	15	22	18	NS	23	2.6	15	163	557	486	569	1352	339.2	1156.8
Tetrachloroethene	5	1.8	-	-	2	0.8	NS	-	-	0.4	3.2	2	2	1.1	2	3.4	1.6
Chlorobenzene	70	11	-	5.4	16	-	NS	2.4	1.2	-	6.9	4	6	3.3	-	23.3	5.8
1,2-Dichloropropane	5	0.6	-	-	-	0.8	NS	-	-	-	-	-	-	-	-	3	-
1,2-Dichlorobenzene	600	2.6	-	-	4.8	-	NS	-	-	-	3.8	3	5	2	-	24.4	5.7
1,4-Dichlorobenzene	5	-	-	-	-	-	NS	-	-	-	-	-	-	-	1.1	3.9	1.1
Trichlorofluoromethane	150	-	-	-	-	-	NS	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane	NE	-	-	-	-	-	NS	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	0.5	-	-	-	-	-	NS	-	-	2.6	4	5	1.6	6.3	9.8	3.5	3.5

Well No.		MW-10 (Abandoned)															
Date		04-93	07-93	10-93	01-94	04-94	07-94	10-94	01-95	04-95	07-95	10-95	01-96	04-96	07-96	11-96	
Compound	MCL	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)**	(ug/l)
TPH-mineral spirits	NE	-	-	-	-	NS	NS	NS	NS	NS	NS						
Benzene	1	-	-	-	-	NS	NS	NS	NS	NS	NS						
Toluene	150	-	-	-	-	NS	NS	NS	NS	NS	NS						
Ethyl-benzene	700	-	-	-	-	NS	NS	NS	NS	NS	NS						
Xylenes	1750	-	-	-	-	NS	NS	NS	NS	NS	NS						
1,1-Dichloroethene	6	-	2	-	-	NS	NS	NS	NS	NS	NS						
1,1-Dichloroethane	5	-	-	-	-	NS	NS	NS	NS	NS	NS						
1,2-Dichloroethane	0.5	-	-	-	-	NS	NS	NS	NS	NS	NS						
cis-1,2-Dichloroethene	6	-	-	-	-	NS	NS	NS	NS	NS	NS						
trans-1,2-Dichloroethene	10	-	17	3	0.4	NS	NS	NS	NS	NS	NS						
Chloroform	NE	1.2	0.5	-	-	NS	NS	NS	NS	NS	NS						
1,1,1-Trichloroethane	200	-	0.8	-	-	NS	NS	NS	NS	NS	NS						
Trichloroethene	5	45	54	42	67	NS	NS	NS	NS	NS	NS						
Tetrachloroethene	5	-	-	-	-	NS	NS	NS	NS	NS	NS						
Chlorobenzene	70	-	-	-	-	NS	NS	NS	NS	NS	NS						
1,2-Dichloropropane	5	-	-	-	-	NS	NS	NS	NS	NS	NS						
1,2-Dichlorobenzene	600	-	-	-	-	NS	NS	NS	NS	NS	NS						
1,4-Dichlorobenzene	5	-	-	-	-	NS	NS	NS	NS	NS	NS						
Trichlorofluoromethane	150	-	-	-	-	NS	NS	NS	NS	NS	NS						
Dichlorodifluoromethane	NE	-	-	-	-	NS	NS	NS	NS	NS	NS						
Vinyl chloride	0.5	-	-	-	-	NS	NS	NS	NS	NS	NS						

Well Destroyed July 1995

**TABLE 6
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
DETECTED COMPOUNDS**

Safety-Kleen Service Center
400 Market Street
Oakland, California

Well No.		MW-11															
Date		04-93	07-93	10-93	01-94	04-94	07-94	10-94	01-95	04-95	07-95	10-95	01-96	04-96	07-96	11-96	
Compound	MCL	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)**	(ug/l)
TPH-mineral spirits	NE	-	-	-	-	-	NS	NS	NS	-	NS	NS	NS	NS	NS	NS	NS
Benzene	1	-	-	-	-	-	NS	NS	NS	-	NS	NS	NS	NS	NS	NS	NS
Toluene	150	-	-	-	-	-	NS	NS	NS	-	NS	NS	NS	NS	NS	NS	NS
Ethyl-benzene	700	-	-	-	-	-	NS	NS	NS	-	NS	NS	NS	NS	NS	NS	NS
Xylenes	1750	-	-	-	-	-	NS	NS	NS	-	NS	NS	NS	NS	NS	NS	NS
1,1-Dichloroethene	6	-	2	-	-	-	NS	NS	NS	-	NS	NS	NS	NS	NS	NS	NS
1,1-Dichloroethane	5	-	-	-	-	-	NS	NS	NS	-	NS	NS	NS	NS	NS	NS	NS
1,2-Dichloroethane	0.5	-	-	-	-	-	NS	NS	NS	-	NS	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethene	6	-	-	-	-	-	NS	NS	NS	-	NS	NS	NS	NS	NS	NS	NS
trans-1,2-Dichloroethene	10	-	3	-	-	-	NS	NS	NS	-	NS	NS	NS	NS	NS	NS	NS
Chloroform	NE	-	-	-	-	-	NS	NS	NS	-	NS	NS	NS	NS	NS	NS	NS
1,1,1-Trichloroethane	200	-	2	-	-	-	NS	NS	NS	-	NS	NS	NS	NS	NS	NS	NS
Trichloroethene	5	9.1	36	11	2.6	3.1	NS	NS	NS	3.4	NS	NS	NS	NS	NS	NS	NS
Tetrachloroethene	5	-	-	-	-	-	NS	NS	NS	-	NS	NS	NS	NS	NS	NS	NS
Chlorobenzene	70	-	-	-	-	-	NS	NS	NS	-	NS	NS	NS	NS	NS	NS	NS
1,2-Dichloropropane	5	-	-	-	-	-	NS	NS	NS	-	NS	NS	NS	NS	NS	NS	NS
1,2-Dichlorobenzene	600	-	-	-	-	-	NS	NS	NS	-	NS	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	5	-	-	-	-	-	NS	NS	NS	-	NS	NS	NS	NS	NS	NS	NS
Trichlorofluoromethane	150	-	-	-	-	-	NS	NS	NS	-	NS	NS	NS	NS	NS	NS	NS
Dichlorodifluoromethane	NE	-	-	-	-	-	NS	NS	NS	-	NS	NS	NS	NS	NS	NS	NS
Vinyl chloride	0.5	-	-	-	-	-	NS	NS	NS	1.4	NS	NS	NS	NS	NS	NS	NS

Well No.		MW-12															
Date		04-93	07-93	10-93	01-94	04-94	07-94	10-94	01-95	04-95	07-95	10-95	01-96	04-96	07-96	11-96	
Compound	MCL	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)**	(ug/l)
TPH-mineral spirits	NE	-	-	-	-	-	NS	-	NS	-	NS	-	NS	-	NS	NS	NS
Benzene	1	-	-	-	-	-	NS	-	NS	-	NS	-	NS	-	NS	NS	NS
Toluene	150	-	-	-	-	-	NS	-	NS	-	NS	-	NS	-	NS	NS	NS
Ethyl-benzene	700	-	-	-	-	-	NS	-	NS	-	NS	-	NS	-	NS	NS	NS
Xylenes	1750	-	-	-	-	-	NS	-	NS	-	NS	-	NS	-	NS	NS	NS
1,1-Dichloroethene	6	-	-	-	-	-	NS	-	NS	-	NS	2	NS	-	NS	NS	NS
1,1-Dichloroethane	5	2.6	2	-	2.3	1.7	NS	1.6	NS	3.8	NS	4	NS	2.9	NS	NS	NS
1,2-Dichloroethane	0.5	-	2	-	1.2	1.9	NS	-	NS	-	NS	3	NS	1.6	NS	NS	NS
cis-1,2-Dichloroethene	6	-	-	-	-	-	NS	-	NS	-	NS	5	NS	-	NS	NS	NS
trans-1,2-Dichloroethene	10	-	3	-	-	-	NS	-	NS	-	NS	2	NS	-	NS	NS	NS
Chloroform	NE	-	-	-	-	-	NS	-	NS	-	NS	-	NS	1.1	NS	NS	NS
1,1,1-Trichloroethane	200	-	-	-	-	-	NS	-	NS	-	NS	-	NS	-	NS	NS	NS
Trichloroethene	5	17	30	34	11	44	NS	24	NS	59	NS	95	NS	7.5	NS	NS	NS
Tetrachloroethene	5	-	-	-	-	-	NS	-	NS	-	NS	-	NS	-	NS	NS	NS
Chlorobenzene	70	-	-	-	-	-	NS	-	NS	-	NS	-	NS	-	NS	NS	NS
1,2-Dichloropropane	5	-	-	-	-	-	NS	-	NS	-	NS	2	NS	-	NS	NS	NS
1,2-Dichlorobenzene	600	-	-	-	-	-	NS	-	NS	-	NS	-	NS	-	NS	NS	NS
1,4-Dichlorobenzene	5	-	-	-	-	-	NS	-	NS	-	NS	-	NS	-	NS	NS	NS
Trichlorofluoromethane	150	-	-	-	-	-	NS	-	NS	-	NS	-	NS	-	NS	NS	NS
Dichlorodifluoromethane	NE	-	-	-	-	-	NS	-	NS	-	NS	-	NS	-	NS	NS	NS
Vinyl chloride	0.5	-	-	-	-	-	NS	-	NS	-	NS	-	NS	-	NS	NS	NS

**TABLE 6
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
DETECTED COMPOUNDS**

**Safety-Kleen Service Center
400 Market Street
Oakland, California**

Well No.		MW-13															
Date		04-93	07-93	10-93	01-94	04-94	07-94	10-94	01-95	04-95	07-95	10-95	01-96	04-96	07-96	11-96	
Compound	MCL	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)**	
TPH-mineral spirits	NE	-	NS	NS	NS	-	NS	NS	NS	-	NS	NS	NS	-	NS	NS	NS
Benzene	1	-	NS	NS	NS	-	NS	NS	NS	-	NS	NS	NS	-	NS	NS	NS
Toluene	150	-	NS	NS	NS	-	NS	NS	NS	-	NS	NS	NS	-	NS	NS	NS
Ethyl-benzene	700	-	NS	NS	NS	-	NS	NS	NS	-	NS	NS	NS	-	NS	NS	NS
Xylenes	1750	-	NS	NS	NS	-	NS	NS	NS	-	NS	NS	NS	-	NS	NS	NS
1,1-Dichloroethene	6	-	NS	NS	NS	-	NS	NS	NS	-	NS	NS	NS	-	NS	NS	NS
1,1-Dichloroethane	5	-	NS	NS	NS	-	NS	NS	NS	-	NS	NS	NS	-	NS	NS	NS
1,2-Dichloroethane	0.5	-	NS	NS	NS	-	NS	NS	NS	-	NS	NS	NS	-	NS	NS	NS
cis-1,2-Dichloroethene	6	-	NS	NS	NS	-	NS	NS	NS	-	NS	NS	NS	-	NS	NS	NS
trans-1,2-Dichloroethene	10	-	NS	NS	NS	-	NS	NS	NS	-	NS	NS	NS	-	NS	NS	NS
Chloroform	NE	-	NS	NS	NS	-	NS	NS	NS	-	NS	NS	NS	-	NS	NS	NS
1,1,1-Trichloroethane	200	-	NS	NS	NS	-	NS	NS	NS	-	NS	NS	NS	-	NS	NS	NS
Trichloroethene	5	-	NS	NS	NS	-	NS	NS	NS	-	NS	NS	NS	-	NS	NS	NS
Tetrachloroethene	5	-	NS	NS	NS	-	NS	NS	NS	-	NS	NS	NS	-	NS	NS	NS
Chlorobenzene	70	-	NS	NS	NS	-	NS	NS	NS	-	NS	NS	NS	-	NS	NS	NS
1,2-Dichloropropane	5	-	NS	NS	NS	-	NS	NS	NS	-	NS	NS	NS	-	NS	NS	NS
1,2-Dichlorobenzene	600	-	NS	NS	NS	-	NS	NS	NS	-	NS	NS	NS	-	NS	NS	NS
1,4-Dichlorobenzene	5	-	NS	NS	NS	-	NS	NS	NS	-	NS	NS	NS	-	NS	NS	NS
Trichlorofluoromethane	150	-	NS	NS	NS	-	NS	NS	NS	-	NS	NS	NS	-	NS	NS	NS
Dichlorodifluoromethane	NE	-	NS	NS	NS	-	NS	NS	NS	-	NS	NS	NS	-	NS	NS	NS
Vinyl chloride	0.5	-	NS	NS	NS	-	NS	NS	NS	-	NS	NS	NS	-	NS	NS	NS

LEGEND

MCL = Maximum contaminant level for primary drinking water constituents

NE = Not Established

NS = Not Sampled

- = Not Detected

* The TPH as mineral spirits result is the result of an unknown hydrocarbon consisting of a single peak.

** This sample was collected prior to purging the monitor well.

NOTE

Only compounds detected in one or more samples are included. See the laboratory reports for a complete list of analytes.

Table 7

Comparison of Pre-Purge and Post-Purge Groundwater Analytical Data

November 1, 1996

Safety-Kleen Service Center

400 Market Street

Oakland, California

Sample Name	Analyte														
	TPHms	1,2-DCB	1,4-DCB	1,1-DCA	1,2-DCA	1,1-DCE	c1,2-DCE	t1,2-DCE	1,1,1-TCA	TCE	PCE	CB	1,2-DCP	VC	CF
	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
MW-1 No Purge	<50	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
MW-1 Post Purge	<50	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
RPD	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
MW-2 No Purge	<50	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
MW-2 Post Purge	<50	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
RPD	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
MW-3 No Purge	<50	<1	<1	<1	<1	<1	<1	<1	<1	1.6	<1	<1	<1	<1	<1
MW-3 Post Purge	<50	<1	<1	<1	<1	<1	<1	<1	<1	4.9	<1	<1	<1	<1	<1
RPD	0%	0%	0%	0%	0%	0%	0%	0%	0%	-102%	0%	0%	0%	0%	0%
MW-4 No Purge	<50	<1	<1	<1	<1	5.1	5.1	<1	1.1	242.4	<1	1.2	<1	<1	1.6
MW-4 Post Purge	<50	<1	<1	<1	<1	5	9.2	1.2	<1	269	<1	<1	<1	<1	1.8
RPD	0%	0%	0%	0%	0%	2%	-57%	-18%	10%	-10%	0%	18%	0%	0%	-12%
MW-8 No Purge	<50	24.4	3.9	16.7	9.5	3.2	44.5	1.1	2.5	339.2	3.4	23.3	3	9.8	1.7
MW-8 Post Purge	<50	5.7	1.1	4.3	6	1.3	60.6	2.9	<1	1156.8	1.6	5.8	<1	3.5	3.9
RPD	0%	124%	112%	118%	45%	84%	-31%	-90%	86%	-109%	72%	120%	100%	95%	-79%

Notes:

TPHms = Total Petroleum Hydrocarbons as Mineral Spirits

DCB = Dichlorobenzene

DCA = Dichloroethane

DCE = Dichloroethene

TCA = Trichloroethane

TCE = Trichloroethene

PCE = Tetrachloroethene

CB = Chlorobenzene

DCP = Dichloropropane

VC = Vinyl Chloride

CF = Chloroform

RPD = Relative Percent Difference = $[(A-B) / \{(A+B) / 2\}] * 100$

APPENDIX A

Field Data Sheets

HYDROLOGIC DATA SHEET

PROJECT: SAFETY-KLEEN 400 MARKET STREET OAKLAND, CALIFORNIA				PROJECT NO.: 70005-009-07 TASK: 001			
DATE: 11-1-96		TIME START: 7:50		TIME END: 11:00			
EVENT: QUARTERLY/SEMI-ANNUAL/ANNUAL MONITORING AND SAMPLING				PERSONNEL: GARY CLIFT			
WELL ID	TOC	DTW	DTP	PT	TD	ELEV.	COMMENTS
MW-1	7.99	6.90	-	-		1.09	2"
MW-2	8.20	7.50	-	-		0.70	2"
MW-3	6.66	5.91	-	-		0.75	2"
MW-4	10.32	8.85	-	-		1.47	2"
MW-5	10.28	8.81	-	-		1.47	2"
MW-6	8.97	7.79	-	-		1.18	2"
MW-8	7.80	6.90	-	-		0.90	2"
MW-9	8.21	7.35	-	-		0.86	4"
MW-11	7.91	DM	-	-		-	2"
MW-12	6.74	Covered	-	-		-	2"
MW-13	8.08	7.30	-	-		0.78	4"(deep well)
RW-1	-	6.12	6.09	.03			10"
NOTES: S-K Laboratory P.O. Number - E11819							
NOTE: MW-9, RW-1 No Batable product							

- TOC = TOP OF CASING (FEET RELATIVE TO MEAN SEA LEVEL)
- DTW = DEPTH TO WATER (FEET)
- DTP = DEPTH TO PRODUCT (FEET)
- PT = PRODUCT THICKNESS (FEET)
- TD = TOTAL DEPTH (FEET)
- ELEV. = GROUNDWATER ELEVATION (FEET RELATIVE TO MEAN SEA LEVEL)

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 7000 5-009-07 PURGED BY: GRC WELL I.D.: MW-12
 CLIENT NAME: Safety Klean SAMPLED BY: GRC SAMPLE I.D.: MW-12
 LOCATION: 400 Market St. Oakland CA QA SAMPLES: None

DATE PURGED 11-1-96 START (2400hr) _____ END (2400hr) _____
 DATE SAMPLED 11-1-96 SAMPLE TIME (2400hr) post purge

SAMPLE TYPE: Groundwater Surface Water _____ NO Purge _____ Treatment Effluent _____ Other _____

CASING DIAMETER: 2" 3" _____ 4" _____ 5" _____ 6" _____ 8" _____ Other _____
 Casing Volume: (gallons per foot) (0.17) (0.38) (0.67) (1.02) (1.50) (2.60) ()

DEPTH TO BOTTOM (feet) = 28.56 CASING VOLUME (gal) = _____
 DEPTH TO WATER (feet) = _____ CALCULATED PURGE (gal) = _____
 WATER COLUMN HEIGHT (feet) = _____ ACTUAL PURGE (gal) = _____

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (Visual)
<u>11-1</u>	_____	_____	_____	_____	_____	_____	_____
<u>11-1</u>	_____	_____	_____	_____	_____	_____	_____
<u>11-1</u>	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

SAMPLE DEPTH TO WATER: _____ SAMPLE INFORMATION SAMPLE TURBIDITY: _____

80% RECHARGE: YES NO ANALYSES: Tph AS MS BTEX 8010, 8020
 ODOR: None SAMPLE VESSEL / PRESERVATIVE: 4 HCL

PURGING EQUIPMENT

Bladder Pump
 Centrifugal Pump
 Submersible Pump
 Peristaltic Pump
 Other: _____
 Pump Depth: _____

SAMPLING EQUIPMENT

Bladder Pump
 Centrifugal Pump
 Submersible Pump
 Peristaltic Pump
 Other: _____

Bailer (Teflon)
 Bailer (PVC)
 Bailer (Stainless Steel)
 Dedicated DISPOS

WELL INTEGRITY: ~~_____~~ LOCK#: 0909

REMARKS: Not sampled CAR over well

SIGNATURE: GRC Page 1 of 1

SECOR INTERNATIONAL INC.
WATER SAMPLE FIELD DATA SHEET

PROJECT #: 7000 S-009-07 PURGED BY: GRC WELL I.D.: MW-8
 CLIENT NAME: SARTY KLEN SAMPLED BY: GRC SAMPLE I.D.: MW-8
 LOCATION: 400 MARKET ST. OAKLAND CA QA SAMPLES: None

DATE PURGED 11-1-96 START (2400hr) 10:05 END (2400hr) 10:25
 DATE SAMPLED 11-1-96 SAMPLE TIME (2400hr) Post Purge 10:30
 No. Purge: 10160
 SAMPLE TYPE: Groundwater Surface Water _____ Treatment Effluent _____ Other _____

CASING DIAMETER: 2" 3" _____ 4" _____ 5" _____ 6" _____ 8" _____ Other _____
 Casing Volume: (gallons per foot) (0.17) (0.38) (0.67) (1.02) (1.50) (2.60) ()

DEPTH TO BOTTOM (feet) = 29.20 CASING VOLUME (gal) = 3.79
 DEPTH TO WATER (feet) = 6.90 CALCULATED PURGE (gal) = 11.37
 WATER COLUMN HEIGHT (feet) = 22.30 ACTUAL PURGE (gal) = 11.50

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (visual)
<u>11-1</u>	<u>10:10</u>	<u>3.5</u>	<u>61.6</u>	<u>618</u>	<u>7.19</u>	<u>Cloudy</u>	<u>Med</u>
<u>11-1</u>	<u>10:20</u>	<u>8.0</u>	<u>63.8</u>	<u>652</u>	<u>7.06</u>	<u>Cloudy</u>	<u>Med</u>
<u>11-1</u>	<u>10:25</u>	<u>11.50</u>	<u>64.0</u>	<u>655</u>	<u>6.93</u>	<u>Cloudy</u>	<u>Med</u>

SAMPLE DEPTH TO WATER: _____ SAMPLE INFORMATION _____ SAMPLE TURBIDITY: _____

80% RECHARGE: YES NO ANALYSES: TPH AS MS BTEX 8010, 8020
 ODOR: None SAMPLE VESSEL / PRESERVATIVE: 4 HCL VOAS

PURGING EQUIPMENT		SAMPLING EQUIPMENT	
<input type="checkbox"/> Bladder Pump	<input type="checkbox"/> Bailer (Teflon)	<input type="checkbox"/> Bladder Pump	<input type="checkbox"/> Bailer (Teflon)
<input type="checkbox"/> Centrifugal Pump	<input type="checkbox"/> Bailer (PVC)	<input type="checkbox"/> Centrifugal Pump	<input checked="" type="checkbox"/> Bailer (<input type="checkbox"/> PVC or <input checked="" type="checkbox"/> disposable)
<input type="checkbox"/> Submersible Pump	<input type="checkbox"/> Bailer (Stainless Steel)	<input type="checkbox"/> Submersible Pump	<input type="checkbox"/> Bailer (Stainless Steel)
<input type="checkbox"/> Peristaltic Pump	<input checked="" type="checkbox"/> Dedicated <u>Dispos.</u>	<input type="checkbox"/> Peristaltic Pump	<input type="checkbox"/> Dedicated _____
Other: _____		Other: _____	
Pump Depth: _____			

WELL INTEGRITY: Good LOCK#: 0909

REMARKS: _____

SIGNATURE: GRC Page 1 of 1

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 7005-009-07 PURGED BY: GRC WELL I.D.: MW-1
 CLIENT NAME: SAFETY Klien SAMPLED BY: GRC SAMPLE I.D.: MW-1
 LOCATION: 400 Market Street Oakland CA QA SAMPLES: None

DATE PURGED 11-96 START (2400hr) 8:40 END (2400hr) 9:10
 DATE SAMPLED 11-1-96 SAMPLE TIME (2400hr) 8:45 Post Purge 9:20

SAMPLE TYPE: Groundwater Surface Water _____
 Treatment Effluent _____ Other _____

CASING DIAMETER: 2" 3" _____ 4" _____ 5" _____ 6" _____ 8" _____ Other _____
 Casing Volume: (gallons per foot) (0.17) (0.38) (0.67) (1.02) (1.50) (2.60) ()

DEPTH TO BOTTOM (feet) = 22.02 CASING VOLUME (gal) = 2.50
 DEPTH TO WATER (feet) = 6.90 CALCULATED PURGE (gal) = 7.71
 WATER COLUMN HEIGHT (feet) = 15.12 ACTUAL PURGE (gal) = 8.00

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (Visual)
<u>11-1</u>	<u>8:50</u>	<u>2.5</u>	<u>60.6</u>	<u>373</u>	<u>7.35</u>	<u>TAN</u>	<u>High</u>
<u>11-1</u>	<u>8:59</u>	<u>5.0</u>	<u>62.4</u>	<u>391</u>	<u>7.40</u>	<u>TAN</u>	<u>High</u>
<u>11-1</u>	<u>9:10</u>	<u>8.0</u>	<u>62.2</u>	<u>404</u>	<u>7.43</u>	<u>TAN</u>	<u>High</u>

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: _____ SAMPLE TURBIDITY: _____
 80% RECHARGE: YES NO ANALYSES: Tph AS MS BTEX 8010, 8020
 ODOR: None SAMPLE VESSEL / PRESERVATIVE: 4 HCL VOAS

PURGING EQUIPMENT

SAMPLING EQUIPMENT

Bladder Pump _____ Bailer (Teflon) _____
 Centrifugal Pump _____ Bailer (PVC) _____
 Submersible Pump _____ Bailer (Stainless Steel) _____
 Peristaltic Pump _____ Dedicated Dispos _____
 Other: _____
 Pump Depth: _____

Bladder Pump _____ Bailer (Teflon) _____
 Centrifugal Pump _____ Bailer (PVC or disposable) _____
 Submersible Pump _____ Bailer (Stainless Steel) _____
 Peristaltic Pump _____ Dedicated _____
 Other: _____

WELL INTEGRITY: Good LOCK#: 0909

REMARKS: _____

SIGNATURE: GRC Page 1 of 1

SECOR International Inc.
WATER SAMPLE FIELD DATA SHEET

PROJECT #: 70005-009-07 PURGED BY: GRC WELL I.D.: MW-2
 CLIENT NAME: Safety-Kleen SAMPLED BY: GRC SAMPLE I.D.: MW-2
 LOCATION: 400 Market St. Oakland CA QA SAMPLES: None

DATE PURGED 11-1-96 START (2400hr) 8:00 END (2400hr) 8:35
 DATE SAMPLED 11-1-96 SAMPLE TIME (2400hr) Post Purge 8:40

SAMPLE TYPE: Groundwater Surface Water _____
 No. Purge 8:15 Treatment Effluent _____ Other _____

CASING DIAMETER: 2" 3" _____ 4" _____ 5" _____ 6" _____ 8" _____ Other _____
 Casing Volume: (gallons per foot) (0.17) (0.38) (0.67) (1.02) (1.50) (2.60) ()

DEPTH TO BOTTOM (feet) = 29.40 CASING VOLUME (gal) = 3.72
 DEPTH TO WATER (feet) = 7.50 CALCULATED PURGE (gal) = 11.16
 WATER COLUMN HEIGHT (feet) = 21.90 ACTUAL PURGE (gal) = 11.25

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (Visual Visual)
<u>11-1-96</u>	<u>8:20</u>	<u>3.5</u>	<u>64.4</u>	<u>425</u>	<u>7.66</u>	<u>TAN</u>	<u>High</u>
<u>11-1-96</u>	<u>8:25</u>	<u>7.0</u>	<u>66.2</u>	<u>461</u>	<u>7.31</u>	<u>TAN</u>	<u>High</u>
<u>11-1-96</u>	<u>8:30</u>	<u>11.25</u>	<u>67.1</u>	<u>462</u>	<u>7.20</u>	<u>TAN</u>	<u>High</u>

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: _____ SAMPLE TURBIDITY: _____

80% RECHARGE: YES NO ANALYSES: TPH AS MS BTEX 8010, 8020
 ODOR: None SAMPLE VESSEL / PRESERVATIVE: B HCL VOAS

PURGING EQUIPMENT

SAMPLING EQUIPMENT

Bladder Pump _____ Bailer (Teflon) _____
 Centrifugal Pump _____ Bailer (PVC) _____
 Submersible Pump _____ Bailer (Stainless Steel) _____
 Peristaltic Pump _____ Dedicated Dispo _____

Other: _____ Other: _____
 Pump Depth: _____

WELL INTEGRITY: Good LOCK#: None

REMARKS: _____

SIGNATURE: GRC Page 1 of 1

APPENDIX B

Laboratory Reports - Vapor

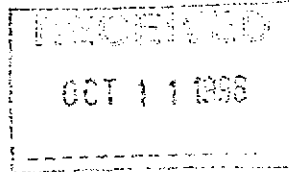


Superior

Analytical Laboratory

SECOR
1390 WILLOW PASS RD, STE. 360
CONCORD, CA 94520

Date: October 7, 1996



Attn: GREG HOEHN

Laboratory Number : 21928

Project Number/Name : 70005-009
Facility/Site : 400 MARKET ST
OAKLAND

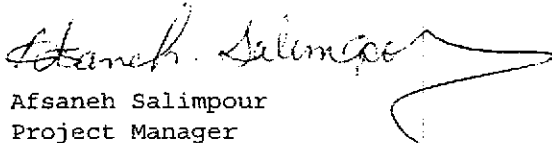
Dear GREG HOEHN:

Attached is Superior Analytical Laboratory report for the samples received on September 27, 1996. This report has been reviewed and approved for release. Following the cover letter is the Case Narrative detailing sample receipt and analysis. Also enclosed is a copy of the original Chain-of-Custody record confirming receipt of samples.

Please note that any unused portion of the sample will be discarded after October 27, 1996, unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions, please contact our Laboratory at (510) 313-0850.

Sincerely,


Afsaneh Salimpour
Project Manager

Customer Service: (800) 521-6109 . Laboratory: (510) 313-0850 . Facsimile: (510) 229-0916
Post Office Box 2648 . 835 Arnold Drive . Suite #106 . Martinez, California 94553
1555 Burke Street . Suite A . San Francisco, California 94124



Superior

Analytical Laboratory

CASE NARRATIVE

SECOR

Project Number/Name: 70005-009

Laboratory Number: 21928

Sample Receipt

Two air samples were received by
Superior Analytical Laboratory on September 27, 1996.

No abnormalities were noted with sample receiving.

Sample Analysis

The samples were analysed for methods 8010, 8015M and 8020.

I / I

Customer Service: (800) 521-6109 . Laboratory: (510) 313-0850 . Facsimile: (510) 229-0916
Post Office Box 2648 . 835 Arnold Drive . Suite #106 . Martinez, California 94553
1555 Burke Street . Suite A . San Francisco, California 94124



Superior

Analytical Laboratory

SECOR
Attn: GREG HOEHN

Project 70005-009
Reported on October 1, 1996

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

Chronology

Laboratory Number 21928

Sample ID	Sampled	Received	Extract.	Analyzed	QC Batch	LAB #
INF	09/26/96	09/27/96	09/27/96	09/27/96	CI271.05	01
EFF	09/26/96	09/27/96	09/27/96	09/27/96	CI271.05	02

QC Samples

QC Batch #	QC Sample ID	TypeRef.	Matrix	Extract.	Analyzed
CI271.05-05	Laboratory Spike	LS	Water	09/27/96	09/27/96
CI271.05-16	B-19	MS 21918-02	Water	09/27/96	09/27/96
CI271.05-17	B-19	MSD 21918-02	Water	09/27/96	09/27/96
CI271.05-20	Method Blank	MB	Air	09/27/96	09/27/96
CI271.05-06	Laboratory Spike	LS	Water	09/27/96	09/27/96
CI271.05-18	B-19	MS 21918-02	Water	09/27/96	09/27/96
CI271.05-19	B-19	MSD 21918-02	Water	09/27/96	09/27/96



SECOR
Attn: GREG HOEHN

Project 70005-009
Reported on October 1, 1996

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

LAB ID	Sample ID	Matrix	Dil.Factor	Moisture
21928-01	INF	Air	1.0	-
21928-02	EFF	Air	1.0	-

RESULTS OF ANALYSIS

Compound	21928-01		21928-02	
	Conc.	RL	Conc.	RL
	ug/L		ug/L	
Mineral Spirits	1300	50	ND	50
Benzene	ND	0.5	ND	0.5
Toluene	ND	0.5	ND	0.5
Ethyl Benzene	0.9	0.5	ND	0.5
Total Xylenes	4.5	0.5	0.5	0.5
>> Surrogate Recoveries (%) <<				
Trifluorotoluene (SS)	81		78	



Superior

Analytical Laboratory

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

Quality Assurance and Control Data

Laboratory Number: 21928
Method Blank(s)

CI271.05-20
Conc. RL
ppm-v

Mineral Spirits	ND	50
Benzene	ND	0.5
Toluene	ND	0.5
Ethyl Benzene	ND	0.5
Total Xylenes	ND	0.5

>> Surrogate Recoveries (%) <<
Trifluorotoluene (SS) 83



Superior

Analytical Laboratory

Gasoline Range Petroleum Hydrocarbons and BTXE
 by EPA SW-846 5030/8015M/8020
 Gasoline Range quantitated as all compounds from C6-C10

Quality Assurance and Control Data

Laboratory Number: 21928

Compound	Sample conc.	SPK Level	SPK Result	Recovery %	Limits %	RPD %
For Water Matrix (ug/L)						
	CI271.05 05 /	- Laboratory Control Spikes				
Benzene		20	17	85	65-125	
Toluene		20	19	95	65-125	
Ethyl Benzene		20	18	90	65-125	
Total Xylenes		60	60	100	65-125	
>> Surrogate Recoveries (%) <<						
	Trifluorotoluene (SS)			80	50-150	
For Water Matrix (ug/L)						
	CI271.05 06 /	- Laboratory Control Spikes				
Gasoline		2000	2000	100	65-135	
For Water Matrix (ug/L)						
	CI271.05 16 / 17	- Sample Spiked: 21918 - 02				
Benzene	ND	20	17/17	85/85	65-125	0
Toluene	0.7	20	16/17	77/82	65-125	6
Ethyl Benzene	ND	20	15/17	75/85	65-125	13
Total Xylenes	0.7	60	51/58	84/96	65-125	13
>> Surrogate Recoveries (%) <<						
	Trifluorotoluene (SS)			71/72	50-150	
For Water Matrix (ug/L)						
	CI271.05 18 / 19	- Sample Spiked: 21918 - 02				
Gasoline	ND	2000	1700/1900	85/95	65-135	11



Superior

Analytical Laboratory

Narrative:

Definitions:

ND = Not Detected

RL = Reporting Limit

NA = Not Analysed

RPD = Relative Percent Difference

ug/L = parts per billion (ppb)

mg/L = parts per million (ppm)

ug/kg = parts per billion (ppb)

mg/kg = parts per million (ppm)



SECOR
Attn: GREG HOEHN

Project 70005-009
Reported on September 30, 1996

Halogenated Volatile Organics by EPA SW-846 Methods 5030/8010

Chronology

Laboratory Number 21928

Sample ID	Sampled	Received	Extract.	Analyzed	QC Batch	LAB #
INF	09/26/96	09/27/96	09/27/96	09/27/96	CI271.08	01
EFF	09/26/96	09/27/96	09/27/96	09/27/96	CI271.08	02

QC Samples

QC Batch #	QC Sample ID	TypeRef.	Matrix	Extract.	Analyzed
CI271.08-01	Method Blank	MB	Air	09/27/96	09/27/96
CI271.08-02	Laboratory Spike	LS	Water	09/27/96	09/27/96
CI271.08-03	Laboratory Spike Duplicate	LSD	Water	09/27/96	09/27/96
CI271.08-04	MW-8	MS 21906-04	Water	09/27/96	09/27/96
CI271.08-05	MW-8	MSD 21906-04	Water	09/27/96	09/27/96



SECOR
Attn: GREG HOEHN

Project 70005-009
Reported on September 30, 1996

Halogenated Volatile Organics by EPA SW-846 Methods 5030/8010

LAB ID	Sample ID	Matrix	Dil. Factor	Moisture
21928-01	INF	Air	1.0	-
21928-02	EFF	Air	1.0	-

RESULTS OF ANALYSIS

Compound	21928-01		21928-02	
	Conc. PPB	RL (V/V)	Conc. PPB	RL (V/V)
Chloromethane	ND	480	ND	480
Vinyl Chloride	ND	390	ND	390
Bromomethane	ND	250	ND	250
Chloroethane	ND	270	ND	270
Trichlorofluoromethane	ND	88	ND	88
1,1-Dichloroethene	ND	120	ND	120
Dichloromethane	ND	140	ND	140
t-1,2-Dichloroethene	ND	120	ND	120
1,1-Dichloroethane	ND	120	ND	120
c-1,2-Dichloroethene	ND	120	ND	120
Chloroform	ND	100	ND	100
1,1,1-Trichloroethane	ND	90	ND	90
Carbon tetrachloride	ND	78	ND	78
1,2-Dichloroethane	ND	120	ND	120
Trichloroethene	ND	92	ND	92
c-1,3-Dichloropropene	ND	110	ND	110
1,2-Dichloropropane	ND	110	ND	110
t-1,3-Dichloropropene	ND	110	ND	110
Bromodichloromethane	ND	68	ND	68
1,1,2-Trichloroethane	ND	90	ND	90
Tetrachloroethene	ND	73	ND	73
Dibromochloromethane	ND	58	ND	58
Chlorobenzene	ND	110	ND	110
Bromoform	ND	48	ND	48
1,1,2,2-Tetrachloroethane	ND	72	ND	72
1,3-Dichlorobenzene	ND	82	ND	82
1,2-Dichlorobenzene	ND	82	ND	82
1,4-Dichlorobenzene	ND	82	ND	82
>> Surrogate Recoveries (%) <<				
Bromochloromethane	91		90	



Halogenated Volatile Organics by EPA SW-846 Methods 5030/8010

Quality Assurance and Control Data

Laboratory Number: 21928

Method Blank(s)

CI271.08-01

Conc. RL

PPB (V/V)

Chloromethane	ND	480
Vinyl Chloride	ND	390
Bromomethane	ND	250
Chloroethane	ND	270
Trichlorofluoromethane	ND	88
1,1-Dichloroethene	ND	120
Dichloromethane	ND	140
t-1,2-Dichloroethene	ND	120
1,1-Dichloroethane	ND	120
c-1,2-Dichloroethene	ND	120
Chloroform	ND	100
1,1,1-Trichloroethane	ND	90
Carbon tetrachloride	ND	78
1,2-Dichloroethane	ND	120
Trichloroethene	ND	92
c-1,3-Dichloropropene	ND	110
1,2-Dichloropropane	ND	110
t-1,3-Dichloropropene	ND	110
Bromodichloromethane	ND	68
1,1,2-Trichloroethane	ND	90
Tetrachloroethene	ND	73
Dibromochloromethane	ND	58
Chlorobenzene	ND	110
Bromoform	ND	48
1,1,2,2-Tetrachloroethane	ND	72
1,3-Dichlorobenzene	ND	82
1,2-Dichlorobenzene	ND	82
1,4-Dichlorobenzene	ND	82

>> Surrogate Recoveries (%) <<

Bromochloromethane 71



Halogenated Volatile Organics by EPA SW-846 Methods 5030/8010

Quality Assurance and Control Data

Laboratory Number: 21928

Compound	Sample conc.	SPK Level	SPK Result	Recovery %	Limits %	RPD %
For Water Matrix (ug/L)						
CI271.08 02 / 03 - Laboratory Control Spikes						
1,1-Dichloroethene		20	21/21	105/105	50-189	0
Trichloroethene		20	19/19	95/95	53-161	0
Chlorobenzene		20	21/21	105/105	57-171	0

>> Surrogate Recoveries (%) <<

Bromochloromethane				95/94	50-125	
--------------------	--	--	--	-------	--------	--

For Water Matrix (ug/L)

CI271.08 04 / 05 - Sample Spiked: 21906 - 04

1,1-Dichloroethene	ND	20	22/21	110/105	50-189	5
Trichloroethene	ND	20	20/20	100/100	53-161	0
Chlorobenzene	ND	20	21/21	105/105	57-171	0

>> Surrogate Recoveries (%) <<

Bromochloromethane				92/83	50-125	
--------------------	--	--	--	-------	--------	--

Definitions:

ND = Not Detected

RL = Reporting Limit

NA = Not Analysed

RPD = Relative Percent Difference

ug/L = parts per billion (ppb)

mg/L = parts per million (ppm)

ug/kg = parts per billion (ppb)

mg/kg = parts per million (ppm)

21928

Chain-of Custody Number:

SECOR Chain-of Custody Record

Field Office: SECOR
 Address: 1390 Willow Pass Road Suite 360
Concord, CA 94519

Additional documents are attached, and are a part of this Record.
 Job Name: SAFETY KLEEN
 Location: 400 MARKET ST.
OAKLAND, CA

Project # 170005-009 Task # _____
 Project Manager Greg Hoenn
 Laboratory Superior
 Turnaround Time Standard

Sampler's Name GARY CLIFT
 Sampler's Signature [Signature]

Analysis Request

Sample ID	Date	Time	Matrix	HClD	TPHg/BTEX/WTPH-G 8015 (modified)/8020	TPHd/WTPH-D 8015 (modified)	TPH 418.1/WTPH 418.1	Aromatic Volatiles 602/8020	Volatile Organics 624/8240 (GC/MS)	Halogenated Volatiles 601/8010	Semi-volatile Organics 625/8270 (GC/MS)	Pesticides/PCBs 608/8080	Total Lead 7421	Priority Pollutant Metals (13)	TCLP Metals	TPH AS PRINCIPAL SPINS BTEX	Comments/ Instructions	Number of Containers
INF	9-26-96	6:15	Air							X						X		1
EFF	9-26-96	6:00	Air							X						X		1

Samples Stored in ice: NA
 Appropriate containers ✓
 Samples preserved _____
 VOA's without headspace _____
 Comments: _____

Special Instructions/Comments:

Relinquished by: SECOR
 Sign [Signature]
 Print GARY CLIFT
 Company SECOR
 Time 8:00 Date 9-27-96

Relinquished by: DEAN CHERRY
 Sign [Signature]
 Print DEAN CHERRY
 Company SAI
 Time 9:42 Date 9/27/96

Received by: DEAN CHERRY
 Sign [Signature]
 Print DEAN CHERRY
 Company SAI
 Time 9/27/96 Date 9/27/96

Received by: SAI
 Sign [Signature]
 Print SAI
 Company _____
 Time 9:42 Date 9/27/96

Sample Receipt

Total no. of containers: 2

Chain of custody seals: _____

Rec'd. in good condition/cold: _____

Conforms to record: _____

Client: SECOR

Client Contact: Greg Hoenn

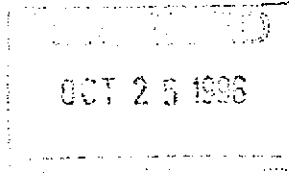
Client Phone: (510) 686-9780



Superior

Analytical Laboratory

SECOR
1390 WILLOW PASS RD, STE. 360
CONCORD, CA 94520



Date: October 23, 1996

Attn: GREG HOEHN

Laboratory Number : 21963

Project Number/Name : 70005-009 TAS
Facility/Site : SAFETY KLEEN
400 MARKET ST
OAKLAND, CA

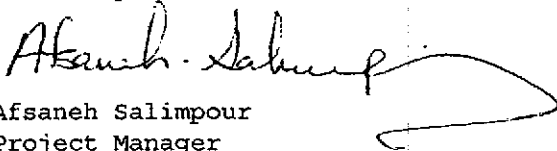
Dear GREG HOEHN:

Attached is Superior Analytical Laboratory report for the samples received on October 11, 1996. This report has been reviewed and approved for release. Following the cover letter is the Case Narrative detailing sample receipt and analysis. Also enclosed is a copy of the original Chain-of-Custody record confirming receipt of samples.

Please note that any unused portion of the sample will be discarded after November 10, 1996, unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions, please contact our Laboratory at (510) 313-0850.

Sincerely,



Afsaneh Salimpour
Project Manager

Customer Service: (800) 521-6109 . Laboratory: (510) 313-0850 . Facsimile: (510) 229-0916
Post Office Box 2648 . 835 Arnold Drive . Suite #106 . Martinez, California 94553
1555 Burke Street . Suite A . San Francisco, California 94124



Superior

Analytical Laboratory

CASE NARRATIVE

SECOR

Project Number/Name: 70005-009 TASK # 001

Laboratory Number: 21963

Sample Receipt

Two air samples were received by
Superior Analytical Laboratory on October 11, 1996.

No abnormalities were noted with sample receiving.

Sample Analysis

The samples were analysed for methods 8010, 8015M and 8020.

I / I

Customer Service: (800) 521-6109 . Laboratory: (510) 313-0850 . Facsimile: (510) 229-0916
Post Office Box 2648 . 835 Arnold Drive . Suite #106 . Martinez, California 94553
1555 Burke Street . Suite A . San Francisco, California 94124



Superior

Analytical Laboratory

SECOR
Attn: GREG HOEHN

Project 70005-009 TASK # 001
Reported on October 23, 1996

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

Chronology

Laboratory Number 21963

Sample ID	Sampled	Received	Extract.	Analyzed	QC Batch	LAB #
INF	10/10/96	10/11/96	10/11/96	10/11/96	CJ111.05	01
EFF	10/10/96	10/11/96	10/11/96	10/11/96	CJ111.05	02

QC Samples

QC Batch #	QC Sample ID	TypeRef.	Matrix	Extract.	Analyzed
CJ111.05-02	Laboratory Spike	LS	Water	10/11/96	10/11/96
CJ111.05-03	RW-36	MS 21955-02	Water	10/11/96	10/11/96
CJ111.05-04	RW-36	MSD 21955-02	Water	10/11/96	10/11/96
CJ111.05-08	Method Blank	MB	Air	10/11/96	10/11/96
CJ111.05-05	Laboratory Spike	LS	Water	10/11/96	10/11/96
CJ111.05-06	RW-36	MS 21955-02	Water	10/11/96	10/11/96
CJ111.05-07	RW-36	MSD 21955-02	Water	10/11/96	10/11/96



Superior

Analytical Laboratory

SECOR
Attn: GREG HOEHN

Project 70005-009 TASK # 001
Reported on October 23, 1996

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

LAB ID	Sample ID	Matrix	Dil. Factor	Moisture
21963-01	INF	Air	1.0	-
21963-02	EFF	Air	1.0	-

RESULTS OF ANALYSIS

Compound	21963-01		21963-02	
	Conc. ug/L	RL	Conc. ug/L	RL
Mineral Spirits	880	50	ND	50
Benzene	ND	0.5	ND	0.5
Toluene	ND	0.5	ND	0.5
Ethyl Benzene	ND	0.5	ND	0.5
Total Xylenes	2.1	0.5	ND	0.5
>> Surrogate Recoveries (%) <<				
Trifluorotoluene (SS)	73		69	



Superior

Analytical Laboratory

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

Quality Assurance and Control Data

Laboratory Number: 21963
Method Blank(s)

CJ111.05-08
Conc. RL
ug/L

Mineral Spirits	ND	50
Benzene	ND	0.5
Toluene	ND	0.5
Ethyl Benzene	ND	0.5
Total Xylenes	ND	0.5

>> Surrogate Recoveries (%) <<
Trifluorotoluene (SS) 76



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Gasoline Range Petroleum Hydrocarbons and BTXE
 by EPA SW-846 5030/8015M/8020
 Gasoline Range quantitated as all compounds from C6-C10

Quality Assurance and Control Data

Laboratory Number: 21963

Compound	Sample conc.	SPK Level	SPK Result	Recovery %	Limits %	RPD %
For Water Matrix (ug/L)						
	CJ111.05	02 /	- Laboratory Control Spikes			
Benzene		20	18	90	65-125	
Toluene		20	19	95	65-125	
Ethyl Benzene		20	20	100	65-125	
Total Xylenes		60	64	107	65-125	
>> Surrogate Recoveries (%) <<						
				91	50-150	
For Water Matrix (ug/L)						
	CJ111.05	05 /	- Laboratory Control Spikes			
Gasoline		2000	2000	100	65-135	
For Water Matrix (ug/L)						
	CJ111.05	03 / 04	- Sample Spiked: 21955 - 02			
Benzene		ND	16/19	80/95	65-125	17
Toluene		ND	16/20	80/100	65-125	22
Ethyl Benzene		ND	17/20	85/100	65-125	16
Total Xylenes		ND	51/60	85/100	65-125	16
>> Surrogate Recoveries (%) <<						
				75/19	50-150	
For Water Matrix (ug/L)						
	CJ111.05	06 / 07	- Sample Spiked: 21955 - 02			
Gasoline		ND	2100/2100	105/105	65-135	0



Narrative:

Definitions:

ND = Not Detected

RL = Reporting Limit

NA = Not Analysed

RPD = Relative Percent Difference

ug/L = parts per billion (ppb)

mg/L = parts per million (ppm)

ug/kg = parts per billion (ppb)

mg/kg = parts per million (ppm)



Superior

Analytical Laboratory

SECOR
Attn: GREG HOEHN

Project 70005-009 TASK # 001
Reported on October 15, 1996

Halogenated Volatile Organics by EPA SW-846 Methods 5030/8010

Chronology

Laboratory Number 21963

Sample ID	Sampled	Received	Extract.	Analyzed	QC Batch	LAB #
INF	10/10/96	10/11/96	10/12/96	10/12/96	CJ121.08	01
EFF	10/10/96	10/11/96	10/12/96	10/12/96	CJ121.08	02

QC Samples

QC Batch #	QC Sample ID	Type	Ref.	Matrix	Extract.	Analyzed
CJ121.08-01	Method Blank	MB		Air	10/12/96	10/12/96
CJ121.08-02	Laboratory Spike	LS		Water	10/12/96	10/12/96
CJ121.08-03	GP-31A	MS	21961-41	Water	10/12/96	10/12/96
CJ121.08-04	GP-31A	MSD	21961-41	Water	10/12/96	10/12/96



SECOR
Attn: GREG HOEHN

Project 70005-009 TASK # 001
Reported on October 15, 1996

Halogenated Volatile Organics by EPA SW-846 Methods 5030/8010

LAB ID	Sample ID	Matrix	Dil. Factor	Moisture
21963-01	INF	Air	1.0	-
21963-02	EFF	Air	1.0	-

RESULTS OF ANALYSIS

Compound	21963-01		21963-02	
	Conc.	RL	Conc.	RL
	PPB (V/V)		PPB (V/V)	
Chloromethane	ND	480	ND	480
Vinyl Chloride	ND	390	ND	390
Bromomethane	ND	250	ND	250
Chloroethane	ND	270	ND	270
Trichlorofluoromethane	ND	88	ND	88
1,1-Dichloroethene	ND	120	ND	120
Dichloromethane	ND	140	ND	140
t-1,2-Dichloroethene	ND	120	ND	120
1,1-Dichloroethane	ND	120	ND	120
c-1,2-Dichloroethene	ND	120	ND	120
Chloroform	ND	100	ND	100
1,1,1-Trichloroethane	ND	90	ND	90
Carbon tetrachloride	ND	78	ND	78
1,2-Dichloroethane	ND	120	ND	120
Trichloroethene	ND	92	ND	92
c-1,3-Dichloropropene	ND	110	ND	110
1,2-Dichloropropane	ND	110	ND	110
t-1,3-Dichloropropene	ND	110	ND	110
Bromodichloromethane	ND	68	ND	68
1,1,2-Trichloroethane	ND	90	ND	90
Tetrachloroethene	360	73	ND	73
Dibromochloromethane	ND	58	ND	58
Chlorobenzene	ND	110	ND	110
Bromoform	ND	48	ND	48
1,1,2,2-Tetrachloroethane	ND	72	ND	72
1,3-Dichlorobenzene	ND	82	ND	82
1,2-Dichlorobenzene	ND	82	ND	82
1,4-Dichlorobenzene	ND	82	ND	82
>> Surrogate Recoveries (%) <<				
Bromochloromethane	81		78	



Halogenated Volatile Organics by EPA SW-846 Methods 5030/8010

Quality Assurance and Control Data

Laboratory Number: 21963

Method Blank(s)

CJ121.08-01

Conc. RL

PPB (V/V)

Chloromethane	ND	480
Vinyl Chloride	ND	390
Bromomethane	ND	250
Chloroethane	ND	270
Trichlorofluoromethane	ND	88
1,1-Dichloroethene	ND	120
Dichloromethane	ND	140
t-1,2-Dichloroethene	ND	120
1,1-Dichloroethane	ND	120
c-1,2-Dichloroethene	ND	120
Chloroform	ND	100
1,1,1-Trichloroethane	ND	90
Carbon tetrachloride	ND	78
1,2-Dichloroethane	ND	120
Trichloroethene	ND	92
c-1,3-Dichloropropene	ND	110
1,2-Dichloropropane	ND	110
t-1,3-Dichloropropene	ND	110
Bromodichloromethane	ND	68
1,1,2-Trichloroethane	ND	90
Tetrachloroethene	ND	73
Dibromochloromethane	ND	58
Chlorobenzene	ND	110
Bromoform	ND	48
1,1,2,2-Tetrachloroethane	ND	72
1,3-Dichlorobenzene	ND	82
1,2-Dichlorobenzene	ND	82
1,4-Dichlorobenzene	ND	82

>> Surrogate Recoveries (%) <<

Bromochloromethane 94



Halogenated Volatile Organics by EPA SW-846 Methods 5030/8010

Quality Assurance and Control Data

Laboratory Number: 21963

Compound	Sample conc.	SPK Level	SPK Result	Recovery %	Limits %	RPD %
For Water Matrix (ug/L)						
CJ121.08 02 / - Laboratory Control Spikes						
1,1-Dichloroethene		20	25	125	50-189	
Trichloroethene		20	22	110	53-161	
Chlorobenzene		20	23	115	57-171	
>> Surrogate Recoveries (%) <<						
Bromochloromethane				96	50-125	
For Water Matrix (ug/L)						
CJ121.08 03 / 04 - Sample Spiked: 21961 - 41						
1,1-Dichloroethene	ND	20	27/29	135/145	50-189	7
Trichloroethene	ND	20	21/23	105/115	53-161	9
Chlorobenzene	ND	20	23/24	115/120	57-171	4
>> Surrogate Recoveries (%) <<						
Bromochloromethane				82/99	50-125	

Definitions:

ND = Not Detected

RL = Reporting Limit

NA = Not Analysed

RPD = Relative Percent Difference

ug/L = parts per billion (ppb)

mg/L = parts per million (ppm)

ug/kg = parts per billion (ppb)

mg/kg = parts per million (ppm)



Superior

Analytical Laboratory

SECOR
1390 WILLOW PASS RD, STE. 360
CONCORD, CA 94520

Date: October 31, 1996

Attn: GREG HOEHN

Laboratory Number : 22009

Project Number/Name : 70005-009-08
Facility/Site : SAFETY KLEEN

Dear GREG HOEHN:

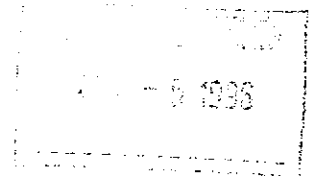
Attached is Superior Analytical Laboratory report for the samples received on October 23, 1996. This report has been reviewed and approved for release. Following the cover letter is the Case Narrative detailing sample receipt and analysis. Also enclosed is a copy of the original Chain-of-Custody record confirming receipt of samples.

Please note that any unused portion of the sample will be discarded after November 22, 1996, unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions, please contact our Laboratory at (510) 313-0850.

Sincerely,

Afsaneh Salimpour
Project Manager



Customer Service: (800) 521-6109 . Laboratory: (510) 313-0850 . Facsimile: (510) 229-0916
Post Office Box 2648 . 835 Arnold Drive . Suite #106 . Martinez, California 94553
1555 Burke Street . Suite A . San Francisco, California 94124



Superior

Analytical Laboratory

CASE NARRATIVE

SECOR

Project Number/Name: 70005-009-08

Laboratory Number: 22009

Sample Receipt

Two air samples were received by
Superior Analytical Laboratory on October 23, 1996.

Cooler temperature was 22°C

No abnormalities were noted with sample receiving.

Sample Analysis

The samples were analysed for methods 8010, 8015M and 8020.

I / I

Customer Service: (800) 521-6109 . Laboratory: (510) 313-0850 . Facsimile: (510) 229-0916
Post Office Box 2648 . 835 Arnold Drive . Suite #106 . Martinez, California 94553
1555 Burke Street . Suite A . San Francisco, California 94124



Superior

Analytical Laboratory

SECOR
Attn: GREG HOEHN

Project 70005-009-08
Reported on October 24, 1996

Halogenated Volatile Organics by EPA SW-846 Methods 5030/8010

Chronology

Laboratory Number 22009

Sample ID	Sampled	Received	Extract.	Analyzed	QC Batch	LAB #
INF	10/22/96	10/23/96	10/23/96	10/23/96	CJ232.06	01
EFF	10/22/96	10/23/96	10/23/96	10/23/96	CJ232.06	02

QC Samples

QC Batch #	QC Sample ID	TypeRef.	Matrix	Extract.	Analyzed
CJ232.06-01	Method Blank	MB	Water	10/23/96	10/23/96
CJ232.06-02	Laboratory Spike	LS	Water	10/23/96	10/23/96
CJ232.06-03	Laboratory Spike Duplicate	LSD	Water	10/23/96	10/23/96
CJ232.06-04	DW-2	MS 22006-03	Water	10/23/96	10/23/96
CJ232.06-05	DW-2	MSD 22006-03	Water	10/23/96	10/23/96



SECOR
Attn: GREG HOEHN

Project 70005-009-08
Reported on October 24, 1996

Halogenated Volatile Organics by EPA SW-846 Methods 5030/8010

LAB ID	Sample ID	Matrix	Dil.Factor	Moisture
22009-01	INF	Air	1.0	-
22009-02	EFF	Air	1.0	-

RESULTS OF ANALYSIS

Compound	22009-01		22009-02	
	Conc. PPB	RL (V/V)	Conc. PPB	RL (V/V)
Chloromethane	ND	480	ND	480
Vinyl Chloride	ND	390	ND	390
Bromomethane	ND	250	ND	250
Chloroethane	ND	270	ND	270
Trichlorofluoromethane	ND	88	ND	88
1,1-Dichloroethene	ND	120	ND	120
Dichloromethane	ND	140	ND	140
t-1,2-Dichloroethene	ND	120	ND	120
1,1-Dichloroethane	ND	120	ND	120
c-1,2-Dichloroethene	ND	120	ND	120
Chloroform	ND	100	ND	100
1,1,1-Trichloroethane	ND	90	ND	90
Carbon tetrachloride	ND	78	ND	78
1,2-Dichloroethane	ND	120	ND	120
Trichloroethene	ND	92	ND	92
c-1,3-Dichloropropene	ND	110	ND	110
1,2-Dichloropropane	ND	110	ND	110
t-1,3-Dichloropropene	ND	110	ND	110
Bromodichloromethane	ND	68	ND	68
1,1,2-Trichloroethane	ND	90	ND	90
Tetrachloroethene	ND	73	ND	73
Dibromochloromethane	ND	58	ND	58
Chlorobenzene	ND	110	ND	110
Bromoform	ND	48	ND	48
1,1,2,2-Tetrachloroethane	ND	72	ND	72
1,3-Dichlorobenzene	ND	82	ND	82
1,2-Dichlorobenzene	ND	82	ND	82
1,4-Dichlorobenzene	ND	82	ND	82
>> Surrogate Recoveries (%) <<				
Bromochloromethane	77		78	



Superior

Analytical Laboratory

Halogenated Volatile Organics by EPA SW-846 Methods 5030/8010

Quality Assurance and Control Data

Laboratory Number: 22009

Method Blank(s)

CJ232.06-01

Conc. RL

ug/L

Chloromethane	ND	0.5
Vinyl Chloride	ND	0.5
Bromomethane	ND	0.5
Chloroethane	ND	0.5
Trichlorofluoromethane	ND	0.5
1,1-Dichloroethene	ND	0.5
Dichloromethane	ND	0.5
t-1,2-Dichloroethene	ND	0.5
1,1-Dichloroethane	ND	0.5
c-1,2-Dichloroethene	ND	0.5
Chloroform	ND	0.5
1,1,1-Trichloroethane	ND	0.5
Carbon tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Trichloroethene	ND	0.5
c-1,3-Dichloropropene	ND	0.5
1,2-Dichloropropane	ND	0.5
t-1,3-Dichloropropene	ND	0.5
Bromodichloromethane	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	ND	0.5
Bromoform	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5

>> Surrogate Recoveries (%) <<

Bromochloromethane 69



Halogenated Volatile Organics by EPA SW-846 Methods 5030/8010

Quality Assurance and Control Data

Laboratory Number: 22009

Compound	Sample conc.	SPK Level	SPK Result	Recovery %	Limits %	RPD %
For Water Matrix (ug/L)						
CJ232.06 02 / 03 - Laboratory Control Spikes						
1,1-Dichloroethene		20	23/24	115/120	50-189	4
Trichloroethene		20	21/20	105/100	53-161	5
Chlorobenzene		20	22/20	110/100	57-171	10

>> Surrogate Recoveries (%) <<

Bromochloromethane				78/84	50-125	
--------------------	--	--	--	-------	--------	--

For Water Matrix (ug/L)

CJ232.06 04 / 05 - Sample Spiked: 22006 - 03

1,1-Dichloroethene	ND	20	19/28R	95/140	50-189	38
Trichloroethene	ND	20	21/30R	105/150	53-161	35
Chlorobenzene	ND	20	23/27	115/135	57-171	16

>> Surrogate Recoveries (%) <<

Bromochloromethane				73/81	50-125	
--------------------	--	--	--	-------	--------	--

R - MS and/or MSD recoveries were out of control limits. LCS / LCSD recoveries were within acceptable limits.

Definitions:

ND = Not Detected

RL = Reporting Limit

NA = Not Analysed

RPD = Relative Percent Difference

ug/L = parts per billion (ppb)

mg/L = parts per million (ppm)

ug/kg = parts per billion (ppb)

mg/kg = parts per million (ppm)



Superior

Analytical Laboratory

SECOR
Attn: GREG HOEHN

Project 70005-009-08
Reported on October 31, 1996

Volatile Aromatic Hydrocarbons by EPA SW-846 Method 5030/8020

Chronology

Laboratory Number 22009

Sample ID	Sampled	Received	Extract.	Analyzed	QC Batch	LAB #
INF	10/22/96	10/23/96	10/23/96	10/23/96	CJ232.37	01
EFF	10/22/96	10/23/96	10/23/96	10/23/96	CJ232.37	02

QC Samples

QC Batch #	QC Sample ID	TypeRef.	Matrix	Extract.	Analyzed
CJ232.37-01	Method Blank	MB	Water	10/23/96	10/23/96
CJ232.37-02	Laboratory Spike	LS	Water	10/23/96	10/23/96
CJ232.37-03	Laboratory Spike Duplicate	LSD	Water	10/23/96	10/23/96
CJ232.37-04	MW1-1	MS 22003-01	Water	10/23/96	10/23/96
CJ232.37-05	MW1-1	MSD 22003-01	Water	10/23/96	10/23/96



SECOR
Attn: GREG HOEHN

Project 70005-009-08
Reported on October 31, 1996

Volatile Aromatic Hydrocarbons by EPA SW-846 Method 5030/8020

LAB ID	Sample ID	Matrix	Dil. Factor	Moisture
22009-01	INF	Air	1.0	-
22009-02	EFF	Air	1.0	-

R E S U L T S O F A N A L Y S I S

Compound	22009-01		22009-02	
	Conc.	RL	Conc.	RL
	ug/L		ug/L	
Benzene	ND	0.5	ND	0.5
Toluene	ND	0.5	ND	0.5
Ethyl Benzene	ND	0.5	ND	0.5
Xylenes	3.6	0.5	0.8	0.5
>> Surrogate Recoveries (%) <<				
Trifluorotoluene (SS)	104		90	



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Analytical Laboratory

Volatile Aromatic Hydrocarbons by EPA SW-846 Method 5030/8020

Quality Assurance and Control Data

Laboratory Number: 22009

Method Blank(s)

CJ232.37-01

Conc. RL

ug/L

Benzene	ND	0.5
Toluene	ND	0.5
Ethyl Benzene	ND	0.5
Xylenes	ND	0.5

>> Surrogate Recoveries (%) <<

Trifluorotoluene (SS) 109



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Analytical Laboratory

Volatile Aromatic Hydrocarbons by EPA SW-846 Method 5030/8020

Quality Assurance and Control Data

Laboratory Number: 22009

Compound	Sample conc.	SPK Level	SPK Result	Recovery %	Limits %	RPD %
----------	--------------	-----------	------------	------------	----------	-------

For Water Matrix (ug/L)
CJ232.37 02 / 03 - Laboratory Control Spikes

Benzene		20	20/19	100/95	65-135	5
Toluene		20	20/19	100/95	65-135	5
Ethyl Benzene		20	19/19	95/95	65-135	0
Xylenes		60	60/58	100/97	65-135	3

>> Surrogate Recoveries (%) <<

Trifluorotoluene (SS)				108/104	50-150	
-----------------------	--	--	--	---------	--------	--

For Water Matrix (ug/L)
CJ232.37 04 / 05 - Sample Spiked: 22003 - 01

Benzene	ND	20	18/14	90/70	65-135	25
Toluene	ND	20	18/14	90/70	65-135	25
Ethyl Benzene	ND	20	18/14	90/70	65-135	25
Xylenes	ND	60	54/43	90/72	65-135	22

>> Surrogate Recoveries (%) <<

Trifluorotoluene (SS)				101/86	50-150	
-----------------------	--	--	--	--------	--------	--

Definitions:

ND = Not Detected

RL = Reporting Limit

NA = Not Analysed

RPD = Relative Percent Difference

ug/L = parts per billion (ppb)

mg/L = parts per million (ppm)

ug/kg = parts per billion (ppb)

mg/kg = parts per million (ppm)



Superior

Analytical Laboratory

SECOR
Attn: GREG HOEHN

Project 70005-009-08
Reported on October 31, 1996

Total Volatile Petroleum Hydrocarbons by EPA SW-846 5030/8015M

Chronology

Laboratory Number 22009

Sample ID	Sampled	Received	Extract.	Analyzed	QC Batch	LAB #
INF	10/22/96	10/23/96	10/23/96	10/23/96	CJ232.37	01
EFF	10/22/96	10/23/96	10/23/96	10/23/96	CJ232.37	02

QC Samples

QC Batch #	QC Sample ID	TypeRef.	Matrix	Extract.	Analyzed
CJ232.37-01	Method Blank	MB	Water	10/23/96	10/23/96
CJ232.37-02	Laboratory Spike	LS	Water	10/23/96	10/23/96
CJ232.37-03	Laboratory Spike Duplicate	LSD	Water	10/23/96	10/23/96
CJ232.37-04	MW1-1	MS 22003-01	Water	10/23/96	10/23/96
CJ232.37-05	MW1-1	MSD 22003-01	Water	10/23/96	10/23/96



Superior

Analytical Laboratory

SECOR
Attn: GREG HOEHN

Project 70005-009-08
Reported on October 31, 1996

Total Volatile Petroleum Hydrocarbons by EPA SW-846 5030/8015M

LAB ID	Sample ID	Matrix	Dil.Factor	Moisture
22009-01	INF	Air	1.0	-
22009-02	EFF	Air	1.0	-

RESULTS OF ANALYSIS

Compound	22009-01		22009-02	
	Conc.	RL	Conc.	RL
	ug/L		ug/L	
Mineral Spirits	670	50	ND	50



Superior

Analytical Laboratory

Total Volatile Petroleum Hydrocarbons by EPA SW-846 5030/8015M

Quality Assurance and Control Data

Laboratory Number: 22009

Method Blank(s)

CJ232.37-01

Conc. RL

ug/L

Mineral Spirits

ND

50



Superior

Analytical Laboratory

Total Volatile Petroleum Hydrocarbons by EPA SW-846 5030/8015M

Quality Assurance and Control Data

Laboratory Number: 22009

Compound	Sample conc.	SPK Level	SPK Result	Recovery %	Limits %	RPD %
For Water Matrix (ug/L)						
CJ232.37 02 / 03 - Laboratory Control Spikes						
Gasoline		2000	1800/1900	90/95	65-135	5
For Water Matrix (ug/L)						
CJ232.37 04 / 05 - Sample Spiked: 22003 - 01						
Gasoline	ND	2000	1800/2000	90/100	65-135	11

Definitions:

ND = Not Detected

RL = Reporting Limit

NA = Not Analysed

RPD = Relative Percent Difference

ug/L = parts per billion (ppb)

mg/L = parts per million (ppm)

ug/kg = parts per billion (ppb)

mg/kg = parts per million (ppm)

22009

Chain-of Custody Number:

SECOR Chain-of Custody Record

Field Office: SECOR
 Address: 1390 Willow Pass Road Suite 360
Concord, CA

Additional documents are attached, and are a part of this Record.
 Job Name: Safety Klean
 Location: 400 Market Street
Oakland CA

Project # 7005-009-08 Task # 001
 Project Manager Greg Hoehn
 Laboratory Superior
 Turnaround Time Standard

Sampler's Name GARY CLIFT
 Sampler's Signature [Signature]

				Analysis Request													Number of Containers	
Sample ID	Date	Time	Matrix	HCID	TPHg/BTEX/WTPH-G 8015 (modified)/8020	TPHd/WTPH-D 8015 (modified)	TPH 418:1/WTPH 418:1	Aromatic/Volatiles 602/8020	Volatile Organics 624/8240 (GC/MS)	Halogenated Volatiles 8010	Semi-volatile Organics 625/8270 (GC/MS)	Pesticides/PCBs 608/8080	Total Lead 7421	Priority Pollutant Metals (13)	TCLP Metals	TPH AS MS BTEX		Comments/ Instructions
INF	10/22	5:15	Air							X						X		1
EFF	10/27	5:00	Air							X						X		1

Please Initial: [Signature]
 Samples Stored in ice: NO
 Appropriate containers: YES
 Samples preserved: YES
 VOA's without headspace: YES
 Comments: in TECTAR BAGS

Special Instructions/Comments:

Relinquished by: SECOR
 Sign [Signature]
 Print GARY CLIFT
 Company SECOR
 Time 8:00 Date 10/23/96

Relinquished by: SUPERIOR
 Sign [Signature]
 Print MARIO STERNAD
 Company SUPERIOR
 Time 1452 Date 10-23-96

Received by: SUPERIOR
 Sign [Signature]
 Print MARIO STERNAD
 Company SUPERIOR
 Time 1434 Date 10-23-96

Received by: SAL
 Sign [Signature]
 Print Paul S. Tabler
 Company SAL
 Time 14:52 Date 10/23/96

Sample Receipt
 Total no. of containers: 2
 Chain of custody seals: 2
 Rec'd. in good condition/cold: YES
 Conforms to record: YES
 Client: SECOR
 Client Contact: Greg Hoehn
 Client Phone: (510) 686-9780

The logo consists of the letters 'SAL' in a bold, white, sans-serif font, set against a black square background. A white diagonal slash is positioned over the 'A'.

Superior

Analytical Laboratory

SECOR
1390 WILLOW PASS RD, STE. 360
CONCORD, CA 94520

Date: November 22, 1996

Attn: GREG HOEHN

Laboratory Number : 22063

Project Number/Name : 70005-009

Facility/Site : SAFETYKLEEN 400 MARKET ST.
OAKLAND

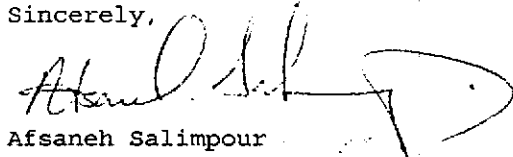
Dear GREG HOEHN:

Attached is Superior Analytical Laboratory report for the samples received on November 13, 1996. This report has been reviewed and approved for release. Following the cover letter is the Case Narrative detailing sample receipt and analysis. Also enclosed is a copy of the original Chain-of-Custody record confirming receipt of samples.

Please note that any unused portion of the sample will be discarded after December 13, 1996, unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions, please contact our Laboratory at (510) 313-0850.

Sincerely,

A handwritten signature in black ink, appearing to read 'Afsaneh Salimpour', is written over a large, faint circular stamp or watermark.

Afsaneh Salimpour
Project Manager

Customer Service: (800) 521-6109 . Laboratory: (510) 313-0850 . Facsimile: (510) 229-0916
Post Office Box 2648 . 835 Arnold Drive . Suite #106 . Martinez, California 94553
1555 Burke Street . Suite A . San Francisco, California 94124

The logo for Superior Analytical Laboratory (SAL) features the letters 'SAL' in a bold, white, sans-serif font. The letters are set against a dark, rectangular background that has a subtle, starburst-like pattern emanating from behind the text.

Superior

Analytical Laboratory

CASE NARRATIVE

SECOR

Project Number/Name: 70005-009

Laboratory Number: 22063

Sample Receipt

Two air samples were received by
Superior Analytical Laboratory on November 13, 1996.

Cooler temperature was °C

No abnormalities were noted with sample receiving.

Sample Analysis

The samples were analysed for methods 8010, 8015M and 8020.

I / I

Customer Service: (800) 521-6109 . Laboratory: (510) 313-0850 . Facsimile: (510) 229-0916
Post Office Box 2648 . 835 Arnold Drive . Suite #106 . Martinez, California 94553
1555 Burke Street . Suite A . San Francisco, California 94124



Superior

Analytical Laboratory

SECOR
Attn: GREG HOEHN

Project 70005-009
Reported on November 22, 1996

Halogenated Volatile Organics by EPA SW-846 Methods 5030/8010

Chronology

Laboratory Number 22063

Sample ID	Sampled	Received	Extract.	Analyzed	QC Batch	LAB #
INF 11/13/96 3:10PM	11/13/96	11/13/96	11/14/96	11/14/96	CK141.08	01
EFF 11/13/96 3:00PM	11/13/96	11/13/96	11/14/96	11/14/96	CK141.08	02

QC Samples

QC Batch #	QC Sample ID	TypeRef.	Matrix	Extract.	Analyzed
CK141.08-01	Method Blank	MB	Water	11/14/96	11/14/96
CK141.08-02	Laboratory Spike	LS	Water	11/14/96	11/14/96
CK141.08-03	Laboratory Spike Duplicate	LSD	Water	11/14/96	11/14/96
CK141.08-04	INF 11/13/96 3:10PM	MS 22063-01	Air	11/14/96	11/14/96
CK141.08-05	INF 11/13/96 3:10PM	MSD 22063-01	Air	11/15/96	11/15/96



Superior

Analytical Laboratory

SECOR
Attn: GREG HOEHN

Project 70005-009
Reported on November 22, 1996

Halogenated Volatile Organics by EPA SW-846 Methods 5030/8010

Table with 5 columns: LAB ID, Sample ID, Matrix, Dil. Factor, Moisture. Rows include 22063-01 and 22063-02.

RESULTS OF ANALYSIS

Main analysis table with columns: Compound, 22063-01 Conc. RL, 22063-01 PPB (V/V), 22063-02 Conc. RL, 22063-02 PPB (V/V). Lists various compounds like Chloromethane, Vinyl Chloride, etc.



Superior

Analytical Laboratory

Halogenated Volatile Organics by EPA SW-846 Methods 5030/8010

Quality Assurance and Control Data

Laboratory Number: 22063

Method Blank(s)

CK141.08-01

Conc. RL

ug/L

Chloromethane	ND	0.5
Vinyl Chloride	ND	0.5
Bromomethane	ND	0.5
Chloroethane	ND	0.5
Trichlorofluoromethane	ND	0.5
1,1-Dichloroethene	ND	0.5
Dichloromethane	ND	0.5
t-1,2-Dichloroethene	ND	0.5
1,1-Dichloroethane	ND	0.5
c-1,2-Dichloroethene	ND	0.5
Chloroform	ND	0.5
1,1,1-Trichloroethane	ND	0.5
Carbon tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Trichloroethene	ND	0.5
c-1,3-Dichloropropene	ND	0.5
1,2-Dichloropropane	ND	0.5
t-1,3-Dichloropropene	ND	0.5
Bromodichloromethane	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	ND	0.5
Bromoform	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5

>> Surrogate Recoveries (%) <<

Bromochloromethane 91



Superior

Analytical Laboratory

Halogenated Volatile Organics by EPA SW-846 Methods 5030/8010

Quality Assurance and Control Data

Laboratory Number: 22063

Compound	Sample conc.	SPK Level	SPK Result	Recovery %	Limits %	RPD %
For Water Matrix (ug/L)						
CK141.08 02 / 03 - Laboratory Control Spikes						
1,1-Dichloroethene		20	20/22	100/110	50-189	5
Trichloroethene		20	21/21	105/105	53-161	0
Chlorobenzene		20	20/20	100/100	57-171	0
>>> Surrogate Recoveries (%) <<						
Bromochloromethane				93/91	50-125	

For Air Matrix (PPB (V))
 CK141.08 04 / 05 - Sample Spiked: 22063 - 01

1,1-Dichloroethene	ND	4960	5208/4712	105/95	50-189	10
Trichloroethene	ND	3660	3843/3660	105/100	53-161	5
Chlorobenzene	ND	4280	4280/4280	100/100	57-171	0
>>> Surrogate Recoveries (%) <<						
Bromochloromethane				92/85	50-125	

Definitions:

ND = Not Detected
 RL = Reporting Limit
 NA = Not Analysed
 RPD = Relative Percent Difference
 ug/L = parts per billion (ppb)
 mg/L = parts per million (ppm)

ug/kg = parts per billion (ppb)
 mg/kg = parts per million (ppm)



Superior

Analytical Laboratory

SECOR
Attn: GREG HOEHN

Project 70005-009
Reported on November 22, 1996

Total Volatile Petroleum Hydrocarbons by EPA SW-846 5030/8015M

Chronology

Laboratory Number 22063

Sample ID	Sampled	Received	Extract.	Analyzed	QC Batch	LAB #
INF 11/13/96 3:10PM	11/13/96	11/13/96	11/15/96	11/15/96	CK151.37	01
EFF 11/13/96 3:00PM	11/13/96	11/13/96	11/15/96	11/15/96	CK151.37	02

QC Samples

QC Batch #	QC Sample ID	TypeRef.	Matrix	Extract.	Analyzed
CK151.37-06	Method Blank	MB	Water	11/15/96	11/15/96
CK151.37-07	Laboratory Spike	LS	Water	11/15/96	11/15/96
CK151.37-08	MW-8B	MS 22061-01	Water	11/15/96	11/15/96
CK151.37-09	MW-8B	MSD 22061-01	Water	11/15/96	11/15/96



SECOR
Attn: GREG HOEHN

Project 70005-009
Reported on November 22, 1996

Total Volatile Petroleum Hydrocarbons by EPA SW-846 5030/8015M

LAB ID	Sample ID	Matrix	Dil.Factor	Moisture
22063-01	INF 11/13/96 3:10PM	Air	1.0	-
22063-02	EFF 11/13/96 3:00PM	Air	1.0	-

RESULTS OF ANALYSIS

Compound	22063-01		22063-02	
	Conc.	RL	Conc.	RL
	ug/L		ug/L	
Mineral Spirits	460	50	ND	50
>> Surrogate Recoveries (%) <<				
Trifluorotoluene (SS)	99		98	



Superior

Analytical Laboratory

Total Volatile Petroleum Hydrocarbons by EPA SW-846 5030/8015M

Quality Assurance and Control Data

Laboratory Number: 22063

Method Blank(s)

CK151.37-06

Conc. RL

ug/L

Mineral Spirits	ND	50
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>> Surrogate Recoveries (%) <<

Trifluorotoluene (SS)	89
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Superior

Analytical Laboratory

Total Volatile Petroleum Hydrocarbons by EPA SW-846 5030/8015M

Quality Assurance and Control Data

Laboratory Number: 22063

Compound	Sample conc.	SPK Level	SPK Result	Recovery %	Limits %	RPD %
For Water Matrix (ug/L)						
CK151.37 07 / - Laboratory Control Spikes						
Gasoline		2000	1800	90	65-135	
For Water Matrix (ug/L)						
CK151.37 08 / 09 - Sample Spiked: 22061 - 01						
Gasoline	ND	2000	2200/2200	110/110	65-135	0

Definitions:

ND = Not Detected
 RL = Reporting Limit
 NA = Not Analysed
 RPD = Relative Percent Difference
 ug/L = parts per billion (ppb)
 mg/L = parts per million (ppm)

ug/kg = parts per billion (ppb)
 mg/kg = parts per million (ppm)



SECOR
Attn: GREG HOEHN

Project 70005-009
Reported on November 22, 1996

Volatile Aromatic Hydrocarbons by EPA SW-846 Method 5030/8020

Chronology

Laboratory Number 22063

Sample ID	Sampled	Received	Extract.	Analyzed	QC Batch	LAB #
INF 11/13/96 3:10PM	11/13/96	11/13/96	11/15/96	11/15/96	CK151.37	01
EFF 11/13/96 3:00PM	11/13/96	11/13/96	11/15/96	11/15/96	CK151.37	02

QC Samples

QC Batch #	QC Sample ID	Type	Ref.	Matrix	Extract.	Analyzed
CK151.37-01	Method Blank	MB		Water	11/15/96	11/15/96
CK151.37-02	Laboratory Spike	LS		Water	11/15/96	11/15/96
CK151.37-03	MW-8B	MS	22061-01	Water	11/15/96	11/15/96
CK151.37-04	MW-8B	MSD	22061-01	Water	11/15/96	11/15/96



SECOR
Attn: GREG HOEHN

Project 70005-009
Reported on November 22, 1996

Volatile Aromatic Hydrocarbons by EPA SW-846 Method 5030/8020

LAB ID	Sample ID	Matrix	Dil.Factor	Moisture
22063-01	INF 11/13/96 3:10PM	Air	1.0	-
22063-02	EFF 11/13/96 3:00PM	Air	1.0	-

R E S U L T S O F A N A L Y S I S

Compound	22063-01		22063-02	
	Conc.	RL	Conc.	RL
	ug/L		ug/L	
Benzene	ND	0.5	ND	0.5
Toluene	0.7	0.5	ND	0.5
Ethyl Benzene	ND	0.5	ND	0.5
Xylenes	2.6	0.5	0.9	0.5

>> Surrogate Recoveries (%) <<

Trifluorotoluene (SS)	96	98
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Superior

Analytical Laboratory

Volatile Aromatic Hydrocarbons by EPA SW-846 Method 5030/8020

Quality Assurance and Control Data

Laboratory Number: 22063

Method Blank(s)

CK151.37-01

Conc. RL

ug/L

Benzene	ND	0.5
Toluene	ND	0.5
Ethyl Benzene	ND	0.5
Xylenes	ND	0.5

>> Surrogate Recoveries (%) <<

Trifluorotoluene (SS) 89



Volatile Aromatic Hydrocarbons by EPA SW-846 Method 5030/8020

Quality Assurance and Control Data

Laboratory Number: 22063

Compound	Sample conc.	SPK Level	SPK Result	Recovery %	Limits %	RPD %
For Water Matrix (ug/L)						
CK151.37 02 / - Laboratory Control Spikes						
Benzene		20	17	85	65-135	
Toluene		20	18	90	65-135	
Ethyl Benzene		20	19	95	65-135	
Xylenes		60	57	95	65-135	
>> Surrogate Recoveries (%) <<						
Trifluorotoluene (SS)				94	50-150	
For Water Matrix (ug/L)						
CK151.37 03 / 04 - Sample Spiked: 22061 - 01						
Benzene	ND	20	19/20	95/100	65-135	5
Toluene	ND	20	21/21	105/105	65-135	0
Ethyl Benzene	ND	20	20/22	100/110	65-135	10
Xylenes	ND	60	58/58	97/97	65-135	0
>> Surrogate Recoveries (%) <<						
Trifluorotoluene (SS)				102/108	50-150	

Definitions:

ND = Not Detected
 RL = Reporting Limit
 NA = Not Analysed
 RPD = Relative Percent Difference
 ug/L = parts per billion (ppb)
 mg/L = parts per million (ppm)

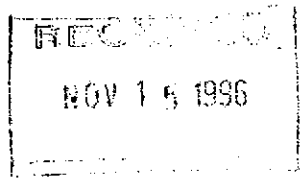
ug/kg = parts per billion (ppb)
 mg/kg = parts per million (ppm)

APPENDIX C

Laboratory Reports - Groundwater



Allan A. Manteuffel Technical Center



November 14, 1996

Mr. Greg Hoehn
Secor International
1390 Willow Pass Road
Suite 360
Concord, CA 94520

Re: SK Lab Project #96-335
Project ID Name: Oakland, CA

Dear Greg:

Enclosed please find the analytical results for the sample received by SK Environmental Laboratory on 11/4/96.

A formal Quality Control/Quality Assurance program is maintained by Safety-Kleen, which is designed to meet or exceed the EPA requirements. This information is available upon request.

If you have any questions concerning this analysis, or if we can be of further assistance, please contact me at 312-825-7351.

Sincerely,


Richard H. Cook
Environmental Section Leader

MAH:

P.O. Box 92050
Elk Grove Village, IL
60009-2050

12555 W. Old Higgins Road
Elk Grove Village, IL 60007
Telephone: 773/694-2700
Fax: 773/825-7850

Project ID Name: Oakland, CA

SK Lab Project #: 96-335

Date Reported: 11/14/96


ANALYTICAL RESULTS**Total Petroleum Hydrocarbons as Mineral Spirits in Water**

Modified EPA Method 8015

Reporting Limit: 50.0

Work Order #	Collector's Sample #	Date Sampled	Date Analyzed	Concentration (µg/L)
01	No Purge MW-1	11/1/96	11/7/96	<50
02	Post Purge MW-1	11/1/96	11/7/96	<50
03	No Purge MW-2	11/1/96	11/7/96	<50
04	Post Purge MW-2	11/1/96	11/7/96	<50
05	No Purge MW-3	11/1/96	11/7/96	<50
06	Post Purge MW-3	11/1/96	11/7/96	<50
07	No Purge MW-4	11/1/96	11/7/96	<50
08	Post Purge MW-4	11/1/96	11/7/96	<50
09	No Purge MW-8	11/1/96	11/8/96	<50
10	Post Purge MW-8	11/1/96	11/8/96	<50

Analytical Review / Date:

 11/14/96

Project ID Name: Oakland, CA

SK Lab Project #: 96-335

Date Reported: 11/14/96

ANALYTICAL RESULTS**Volatile Organics in Water**

EPA Method 8010

Work Order #	01	02	03	04	05	06
Collector's Sample #	No Purge MW-1	Post Purge MW-1	No Purge MW-2	Post Purge MW-2	No Purge MW-3	Post Purge MW-3
Date Sampled	11/1/96	11/1/96	11/1/96	11/1/96	11/1/96	11/1/96
Date Analyzed	11/11/96	11/11/96	11/12/96	11/12/96	11/12/96	11/12/96
Dilution Factor	1	1	1	1	1	1
Analyte	Report Limit µg/L	Concentration µg/L				
Benzyl Chloride	1	<1	<1	<1	<1	<1
Bromobenzene	1	<1	<1	<1	<1	<1
Bromodichloromethane	1	<1	<1	<1	<1	<1
Bromoform	2	<2	<2	<2	<2	<2
Bromomethane	2	<2	<2	<2	<2	<2
Carbon Tetrachloride	1	<1	<1	<1	<1	<1
Chlorobenzene	1	<1	<1	<1	<1	<1
Chloroethane	1	<1	<1	<1	<1	<1
Chloroform	1	<1	<1	<1	<1	<1
Chloromethane	1	<1	<1	<1	<1	<1
Chlorotoluene	2	<2	<2	<2	<2	<2
Dibromochloromethane	2	<2	<2	<2	<2	<2
Dibromomethane	1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	1	<1	<1	<1	<1	<1
Dichlorodifluoromethane	1	<1	<1	<1	<1	<1
1,1-Dichloroethane	1	<1	<1	<1	<1	<1
1,2-Dichloroethane	1	<1	<1	<1	<1	<1
1,1-Dichloroethylene	1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethylene	1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethylene	1	<1	<1	<1	<1	<1

Project ID Name: Oakland, CA

SK Lab Project #: 96-335

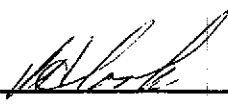
Date Reported: 11/14/96

ANALYTICAL RESULTS**Volatile Organics in Water**

EPA Method 8010

Work Order #	01	02	03	04	05	06
Collector's Sample #	No Purge MW-1	Post Purge MW-1	No Purge MW-2	Post Purge MW-2	No Purge MW-3	Post Purge MW-3
Date Sampled	11/1/96	11/1/96	11/1/96	11/1/96	11/1/96	11/1/96
Date Analyzed	11/11/96	11/11/96	11/12/96	11/12/96	11/12/96	11/12/96
Dilution Factor	1	1	1	1	1	1
Analyte	Report Limit µg/L	Concentration µg/L				
Dichloromethane	2	<2	<2	<2	<2	<2
1,2-Dichloropropane	1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropylene	1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	2	<2	<2	<2	<2	<2
1,1,1,2-Tetrachloroethane	1	<1	<1	<1	<1	<1
Tetrachloroethylene	1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	1	<1	<1	<1	<1	<1
Trichloroethylene	1	<1	<1	<1	<1	1.6 4.9
Trichlorofluoromethane	1	<1	<1	<1	<1	<1
Trichloropropane	2	<2	<2	<2	<2	<2
Vinyl Chloride	2	<2	<2	<2	<2	<2

Analytical Review / Date:

 11/14/96

Project ID Name: Oakland, CA

SK Lab Project #: 96-335

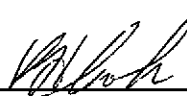
Date Reported: 11/14/96

ANALYTICAL RESULTS**Volatile Organics in Water**

EPA Method 8020

Work Order #	01	02	03	04	05	06	
Collector's Sample #	No Purge MW-1	Post Purge MW-1	No Purge MW-2	Post Purge MW-2	No Purge MW-3	Post Purge MW-3	
Date Sampled	11/1/96	11/1/96	11/1/96	11/1/96	11/1/96	11/1/96	
Date Analyzed	11/11/96	11/11/96	11/12/96	11/12/96	11/12/96	11/12/96	
Dilution Factor	1	1	1	1	1	1	
Analyte	Report Limit µg/L	Concentration µg/L					
Benzene	1	<1	<1	<1	<1	<1	<1
Ethylbenzene	1	<1	<1	<1	<1	<1	<1
Toluene	1	<1	<1	<1	<1	<1	<1
Xylenes	1	<1	<1	<1	<1	<1	<1

Analytical Review / Date:

 11/14/96

Project ID Name: Oakland, CA

SK Lab Project #: 96-335

Date Reported: 11/14/96

ANALYTICAL RESULTS**Volatile Organics in Water**

EPA Method 8010

Work Order #		07	08	09	10	11
Collector's Sample #		No Purge MW-4	Post Purge MW-4	No Purge MW-8	Post Purge MW-8	Trip Blank
Date Sampled		11/1/96	11/1/96	11/1/96	11/1/96	11/1/96
Date Analyzed		11/12/96	11/12/96	11/12/96	11/12/96	11/11/96
Dilution Factor		1	1	1	1	1
Analyte	Report Limit µg/L	Concentration µg/L				
Benzyl Chloride	1	<1	<1	<1	<1	<1
Bromobenzene	1	<1	<1	<1	<1	<1
Bromodichloromethane	1	<1	<1	<1	<1	<1
Bromoform	2	<2	<2	<2	<2	<2
Bromomethane	2	<2	<2	<2	<2	<2
Carbon Tetrachloride	1	<1	<1	<1	<1	<1
Chlorobenzene	1	1.2	<1	23.3 *	5.8	<1
Chloroethane	1	<1	<1	<1	<1	<1
Chloroform	1	1.6	1.8	1.7	3.9	<1
Chloromethane	1	<1	<1	<1	<1	<1
Chlorotoluene	2	<2	<2	<2	<2	<2
Dibromochloromethane	2	<2	<2	<2	<2	<2
Dibromomethane	1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	1	<1	<1	24.4 *	5.7	<1
1,3-Dichlorobenzene	1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	1	<1	<1	3.9	1.1	<1
Dichlorodifluoromethane	1	<1	<1	<1	<1	<1
1,1-Dichloroethane	1	<1	<1	16.7 *	4.3	<1
1,2-Dichloroethane	1	<1	<1	9.5	6.0	<1
1,1-Dichloroethylene	1	5.1	5.0	3.2	1.3	<1
cis-1,2-Dichloroethylene	1	5.1	9.2	44.5 *	60.6 *	<1
trans-1,2-Dichloroethylene	1	<1	1.2	1.1	2.9	<1

Project ID Name: Oakland, CA

SK Lab Project #: 96-335

Date Reported: 11/14/96

ANALYTICAL RESULTS**Volatile Organics in Water**

EPA Method 8010

Work Order #	07	08	09	10	11
Collector's Sample #	No Purge MW-4	Post Purge MW-4	No Purge MW-8	Post Purge MW-8	Trip Blank
Date Sampled	11/1/96	11/1/96	11/1/96	11/1/96	11/1/96
Date Analyzed	11/12/96	11/12/96	11/12/96	11/12/96	11/11/96
Dilution Factor	1	1	1	1	1
Analyte	Report Limit µg/L	Concentration µg/L			
Dichloromethane	2	<2	<2	<2	<2
1,2-Dichloropropane	1	<1	<1	3.0	<1
trans-1,3-Dichloropropylene	1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	2	<2	<2	<2	<2
1,1,1,2-Tetrachloroethane	1	<1	<1	<1	<1
Tetrachloroethylene	1	<1	<1	3.4	1.6
1,1,1-Trichloroethane	1	1.1	<1	2.5	<1
1,1,2-Trichloroethane	1	<1	<1	<1	<1
Trichloroethylene	1	242.4 **	269.0 **	339.2 **	1156.8 **
Trichlorofluoromethane	1	<1	<1	<1	<1
Trichloropropane	2	<2	<2	<2	<2
Vinyl Chloride	2	<2	<2	9.8 *	3.5

* 1:10 Dilution

** 1:100 Dilution

Analytical Review / Date:

W. L. ... 11/14/96

Project ID Name: Oakland, CA

SK Lab Project #: 96-335

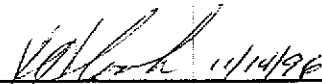
Date Reported: 11/14/96

ANALYTICAL RESULTS**Volatile Organics in Water**

EPA Method 8020

Work Order #	07	08	09	10	11
Collector's Sample #	No Purge MW-4	Post Purge MW-4	No Purge MW-8	Post Purge MW-8	Trip Blank
Date Sampled	11/1/96	11/1/96	11/1/96	11/1/96	11/1/96
Date Analyzed	11/12/96	11/12/96	11/12/96	11/12/96	11/11/96
Dilution Factor	1	1	1	1	1
Analyte	Report Limit µg/L	Concentration µg/L			
Benzene	1	<1	<1	<1	<1
Ethylbenzene	1	<1	<1	<1	<1
Toluene	1	<1	<1	<1	<1
Xylenes	1	<1	<1	<1	<1

Analytical Review / Date:


 11/14/96

96-335 (copy)

Chain-of Custody Number:

VOA

SECOR Chain-of Custody Record

Field Office: SECOR
Address: 1390 Willow Pass Road Suite 360
Concord, CA 94520

Additional documents are attached, and are a part of this Record.
Job Name: SAFETY Klean
Location: 400 MARKET STREET
OAKLAND, CA

Project # 70005-009-07 Task # 001
Project Manager Greg Hoehn
Laboratory SAFETY Klean
Turnaround Time Standard

Sampler's Name GARY CLIFT
Sampler's Signature [Signature]

Analysis Request

Sample ID	Date	Time	Matrix	HCID	TPH/BTEX/WTPH-G 8015 (modified)/8020	TPH/WTPH-D 8015 (modified)	TPH 418.1/WTPH 418.1	Aromatic Volatiles 602/8020	Volatile Organics 824/8240 (GC/MS)	Halogenated Volatiles 8010	Semi-volatile Organics 625/8270 (GC/MS)	Pesticides/PCBs 608/8080	Total Lead 7421	Priority Pollutant Metals (13)	TCLP Metals	TPH AS MS. EPA Method 8015 by purge & trap BTEX by EPA Method 8000	Comments/ Instructions	Number of Containers
01 No Purge MW-1	11-1	8:45	H2O							X						X	9607239	4
02 Post Purge MW-1	11-1	9:20	H2O							X						X	7240	4
03 No Purge MW-2	11-1	8:15	H2O							X						X	7241	4
04 Post Purge MW-2	11-1	8:40	H2O							X						X	7242	4
05 No Purge MW-3	11-1	10:45	H2O							X						X	7243	4
06 Post Purge MW-3	11-1	11:30	H2O							X						X	7244	4
07 No Purge MW-4	11-1	9:25	H2O							X						X	7245	4
08 Post Purge MW-4	11-1	9:50	H2O							X						X	7246	4
09 No Purge MW-B	11-1	10:00	H2O							X						X	7247	4
10 Post Purge MW-B	11-1	10:30	H2O							X						X	7248	4

Special Instructions/Comments:
Sea still present -
OK to Analyze - Temp of 90C
per Greg Hoehn.

Relinquished by: SECOR
Sign [Signature]
Print GARY B. CLIFT
Company SECOR
Time 8:30 AM Date 11-1-96

Received by:
Sign [Signature]
Print T. COOK
Company FEC
Time 11:30 Date 11-1-96

Sample Receipt
Total no. of containers: 40
Chain of custody seals:
Rec'd. In good condition/cold:
Conforms to record:

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

Received by: C. Smith
Sign _____
Print _____
Company 90C
Time 10:30 A Date 11-04-96

Client: SECOR
Client Contact: Greg Hoehn
Client Phone: (510) 686-9780

Chain-of Custody Number:

SECOR Chain-of Custody Record

Field Office: SECOR
 Address: 1390 Willow Pass Road Suite 360
Concord, CA 94520

Additional documents are attached, and are a part of this Record.
 Job Name: SAFETY KLEN
 Location: 400 MARKET ST
OAKLAND, CA

Project # 76005-009-07 Task # 001
 Project Manager Greg Hoehn
 Laboratory SAFETY KLEN
 Turnaround Time STANDARD

Sampler's Name GARY CLIFT
 Sampler's Signature *Gary Clift*

Analysis Request

Sample ID	Date	Time	Matrix	HCID	TPHg/BTEX/WTPH-G 8015 (modified)/8020	TPHg/WTPH-O 8015 (modified)	TPH 418.1/WTPH 418.1	Aromatic Volatiles 602/8020	Volatile Organics 624/8240 (GC/MS)	Halogenated Volatiles 78010	Semi-volatile Organics 825/8270 (GC/MS)	Pesticides/PCBs 608/8080	Total Lead 7421	Priority Pollutant Metals (13)	TCLP Metals	TPH as M.S. EPA method 8015 by EPA method 8015 by EPA method	Comments/ Instructions	Number of Containers
No Page MW-12	11-1		H2O							X						X X		#
Post Page MW-12	11-1		H2O							X						X X		#
TAP BLANK	11-1		H2O							x						x	9607249	1

Special Instructions/Comments:

Relinquished by: SECOR
 Sign *Gary Clift*
 Print GARY R CLIFT
 Company SECOR
 Time 3:30 P.M. Date 11-1-96

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

Received by: _____
 Sign *T Cook*
 Print T COOK
 Company FEC
 Time 1:40 Date 11-1-96

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

Sample Receipt

Total no. of containers:	91
Chain of custody seals:	
Rec'd. in good condition/cold:	
Conforms to record:	

Client: SECOR
 Client Contact: Greg Hoehn
 Client Phone: (510) 686-9780

SECOR CUSTREC Rev. 1/95