



October 2, 1995

Via Certified Mail No. Z425868581

Ms. Jennifer Eberle  
Alameda County  
Department of Environmental Health  
Hazardous Materials Division  
1131 Harbor Bay Parkway, Second Floor  
Alameda, California 94502-6577

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

Dear Ms. Eberle:

Enclosed is the quarterly report which summarizes the groundwater monitoring and vapor extraction activities conducted at the above-referenced facility. This report covers the period from June through August 1995. 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, Safety-Kleen is following the modified groundwater sampling schedule.

Also included is a description of the destruction of monitoring well MW-10 and the abandonment permit.

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

Sincerely,

*Greg Hoehn*  
for 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)  
Robert Senga, State of California Department of Health Services - DTSC  
Steven Ritchie, California Regional Water Quality Control Board  
Scott Comiso, BAAQMD  
Greg Hoehn, SECOR

OAKLAND7.L10  
October 2, 1995  
SECOR Job No. 70005-009-07

ENVIRONMENTAL  
PROTECTION

95 OCT-14 PM 2:45



October 2, 1995

Via Certified Mail No. Z425868580

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

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

Dear Mr. Ritchie:

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OAKLAND7.L09  
October 2, 1995  
SECOR Job No. 70005-009-07

ENVIRONMENTAL  
PROTECTION

95 OCT -4 PM 2:45

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

**SECOR Job No. 70005-009-07**

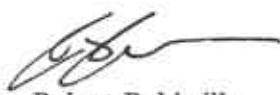
**Prepared For:**  
Safety-Kleen Corp.  
16540 S.E. 130th Street  
Clackamas, Oregon 97015

10-2-95

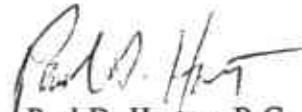
**Submitted By:**  
**SECOR International Incorporated**  
1390 Willow Pass Road  
Suite 360  
Concord, California 94520

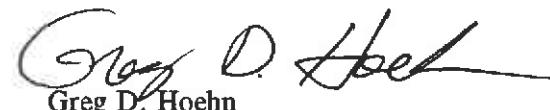
October 2, 1995

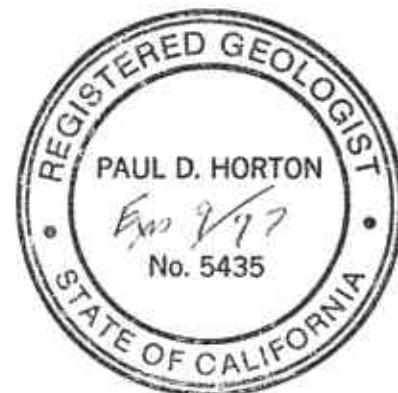
**Prepared By:**

  
Robert Robitaille  
Project Geologist

**Reviewed By:**

  
Paul D. Horton, R.G.  
Principal Hydrogeologist

  
Greg D. Hoehn  
Principal Geologist



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## **1.0 INTRODUCTION**

This report presents the results of groundwater monitoring and sampling activities conducted for the quarter of June through August 1995, at the Safety-Kleen Service Center located at 400 Market Street in Oakland, California (Figure 1 and Figure 2). Also included are the results of the soil vapor extraction (SVE) system operation.

## 2.0 PROJECT BACKGROUND INFORMATION

The Safety-Kleen Oakland Service Center is a local distribution center for Safety-Kleen products. Three single-walled underground storage tanks (USTs) were removed and replaced with two new 12,000 gallon double-walled tanks in June and July of 1990. 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 prior to distribution of product mineral spirits to Safety-Kleen customers.

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

The SVE system consists of seven horizontal vapor extraction lines and a vapor treatment system consisting of granular activated carbon (GAC). The Padre™ regenerative adsorption system manufactured by Purus, Inc. is no longer utilized. Figure 3 depicts the layout of the vapor extraction lines and the vapor treatment system. A detailed description of the SVE system can be found in the report entitled *Quarterly Groundwater Monitoring and Soil Vapor Extraction Report* dated October 1, 1993.

### **3.0 SCOPE OF WORK**

Work conducted during this quarter consisted of product recovery and the monitoring of twelve groundwater monitoring wells and the sampling of four groundwater monitoring wells. The following sections provide a description of the work steps conducted.

#### **3.1 Soil Vapor Extraction System**

The SVE system has not operated since November 24, 1994. At that time, the system was shut down by a system fault. Subsequently, the system piping was damaged during the installation of UST cathodic protection. The damage to SVE piping was repaired in December 1994; however, the system remains non-operational pending modification to a carbon adsorption treatment system. Operation of the SVE system will be resumed as soon as the system modification is complete. It is anticipated that the system will resume operation during the next quarter.

#### **3.2 RW-1 Mineral Spirits Recovery**

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

#### **3.3 Groundwater Monitoring and Sampling**

On July 11, 1995, on- and off-site monitoring wells were monitored for depth-to-water using a water level indicator calibrated to 0.01-foot. Monitoring well MW-10 was declared abandoned on July 12, 1995 after it was destroyed during Caltrans work in the area. The County was notified in the abandonment permit application that the well was destroyed by Caltrans during construction before it could be abandoned by Safety-Kleen. A copy of the well destruction permit is included in Appendix A. The depth-to-water measurements from the remaining wells were used with well survey data to construct a potentiometric surface map (Figure 4).

On July 11, 1995, subsequent to collecting depth-to-water measurements, monitoring wells MW-2, MW-3, MW-4 and MW-8 (in accordance with the quarterly sampling schedule) 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. Following recovery of the groundwater levels in the wells to at least 80 percent of original volume, groundwater samples were collected using single use disposable samplers. The samples were placed into laboratory supplied sample containers, labelled with the date, time, and sample number, and placed on ice in an insulated cooler. Field data sheets which include depth-to-water measurements and well purge data are included in Appendix B.

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 U.S. Environmental Protection Agency (EPA) Method 8020, for total petroleum hydrocarbons as mineral spirits (TPHms) by modified EPA Method 8015 and for halogenated volatile organic compounds (VOCs) by EPA Method 8010.

Prior to using any non-single use equipment in a groundwater monitoring well, the equipment was decontaminated by double-washing with a laboratory grade detergent in clean water, and triple-rinsed using deionized water. Purge water and decontamination water generated during well purging and sampling was placed in the waste mineral spirits tank or in labeled containers pending incorporation into the facilities' waste stream.

## **4.0 RESULTS**

### **4.1 Soil Vapor Extraction System**

No samples were collected or analyzed from the soil vapor extraction system during this reporting period because the system was non-operational.

### **4.2 RW-1 Mineral Spirits Recovery**

The mineral spirits skimming pump recovery data indicated that 16.6 gallons of mineral spirits product were recovered during this reporting period. A total of 142.1 gallons of product have been removed since the pump was installed on January 19, 1993. Product recovery data are summarized on Table 1.

### **4.3 Groundwater Elevations**

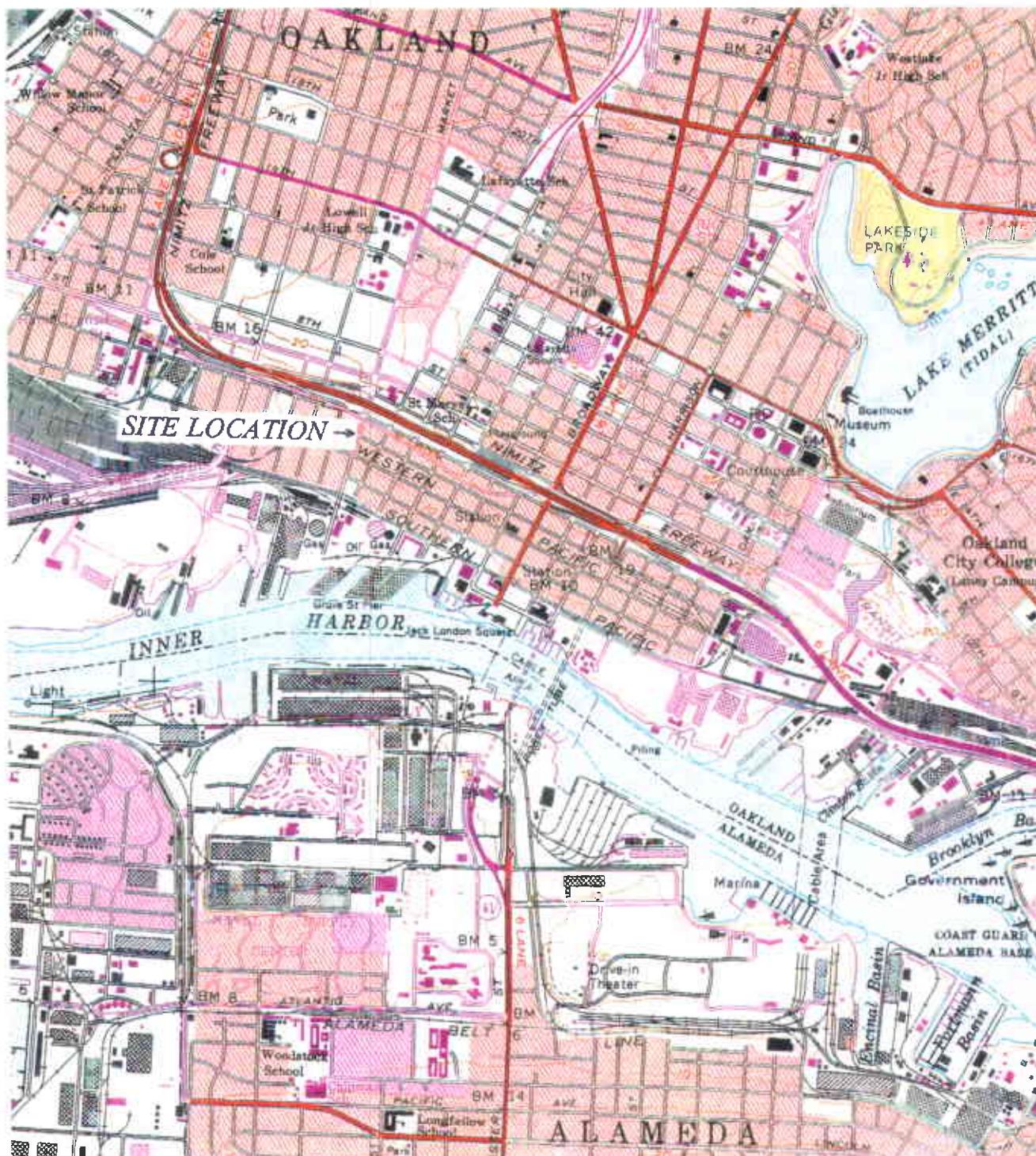
Groundwater elevations and depth-to-water measurements for this event are presented in Table 2. The average water table elevation on July 11, 1995 was 1.94 feet above mean sea level, a decrease of 1.06 feet since the April, 1995 event. A potentiometric surface map prepared with the July 11, 1995, data is presented as Figure 4.

As shown in Figure 4, the groundwater flow direction remains to the southwest, consistent with historic site data. The hydraulic gradient was 0.004 feet/foot (ft/ft) across the site as measured between wells MW-4 and MW-2. The gradient is 0.001 ft/ft lower than that measured during the last event and is consistent with previous data for the site.

### **4.4 Groundwater Conditions**

No concentrations of BTEX were detected above the laboratory detection limits in any of the groundwater samples collected on July 11, 1995. Laboratory analysis of groundwater samples indicate that VOC's exist at concentrations exceeding the detection limits in wells MW-4 and MW-8. The groundwater sample from monitoring well MW-4 contained TCE at 247  $\mu\text{g/l}$ , 1,1-DCE at 5.2  $\mu\text{g/l}$ ; cis-1,2-DCE at 11.8  $\mu\text{g/l}$ , and trans-1,2-DCE at 3.2  $\mu\text{g/l}$ . The groundwater sample from monitoring well MW-8 contained TCE at 163  $\mu\text{g/l}$ ; PCE at 3.2  $\mu\text{g/l}$ ; vinyl chloride at 2.6  $\mu\text{g/l}$ ; 1,2-DCB at 3.8  $\mu\text{g/l}$ ; 1,1-DCA at 6.2  $\mu\text{g/l}$ ; 1,2-DCA at 9.8 ; 1,1-DCE at 3.5  $\mu\text{g/l}$ ; cis-1,2-DCE at 25.57  $\mu\text{g/l}$ ; trans-1,2-DCE at 2.3  $\mu\text{g/l}$ ; and chlorobenzene at 6.9  $\mu\text{g/l}$ . The groundwater samples collected from monitoring wells MW-2 and MW-3 did not contain detectable levels of any VOC's. Analytical test results showing compounds detected since the April 20, 1993 sampling event are presented in Table 3. Copies of the groundwater laboratory analytical reports are included in Appendix C.

OAKLAND WEST QUADRANGLE  
California  
7.5 Minute Series (Topographic)



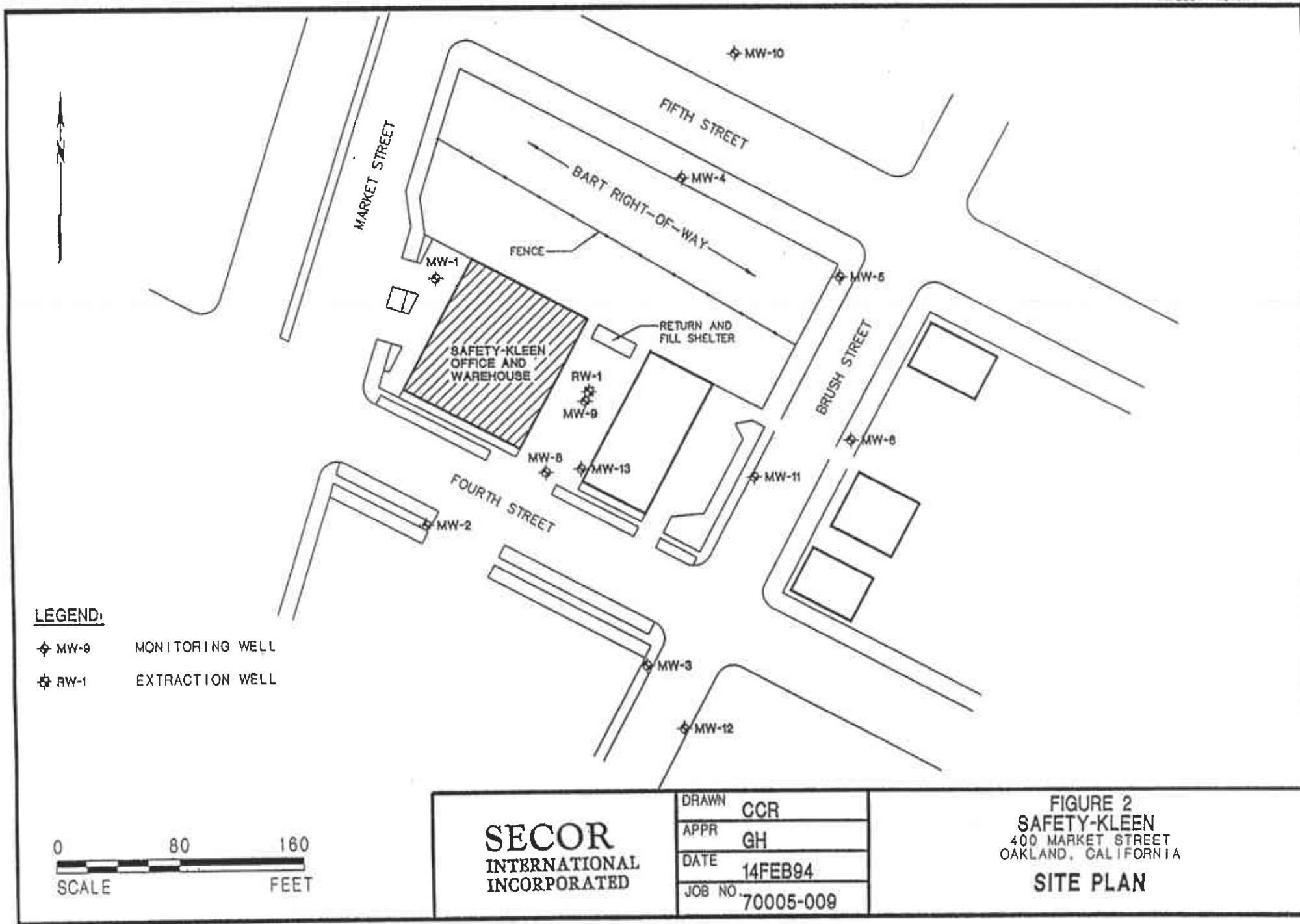
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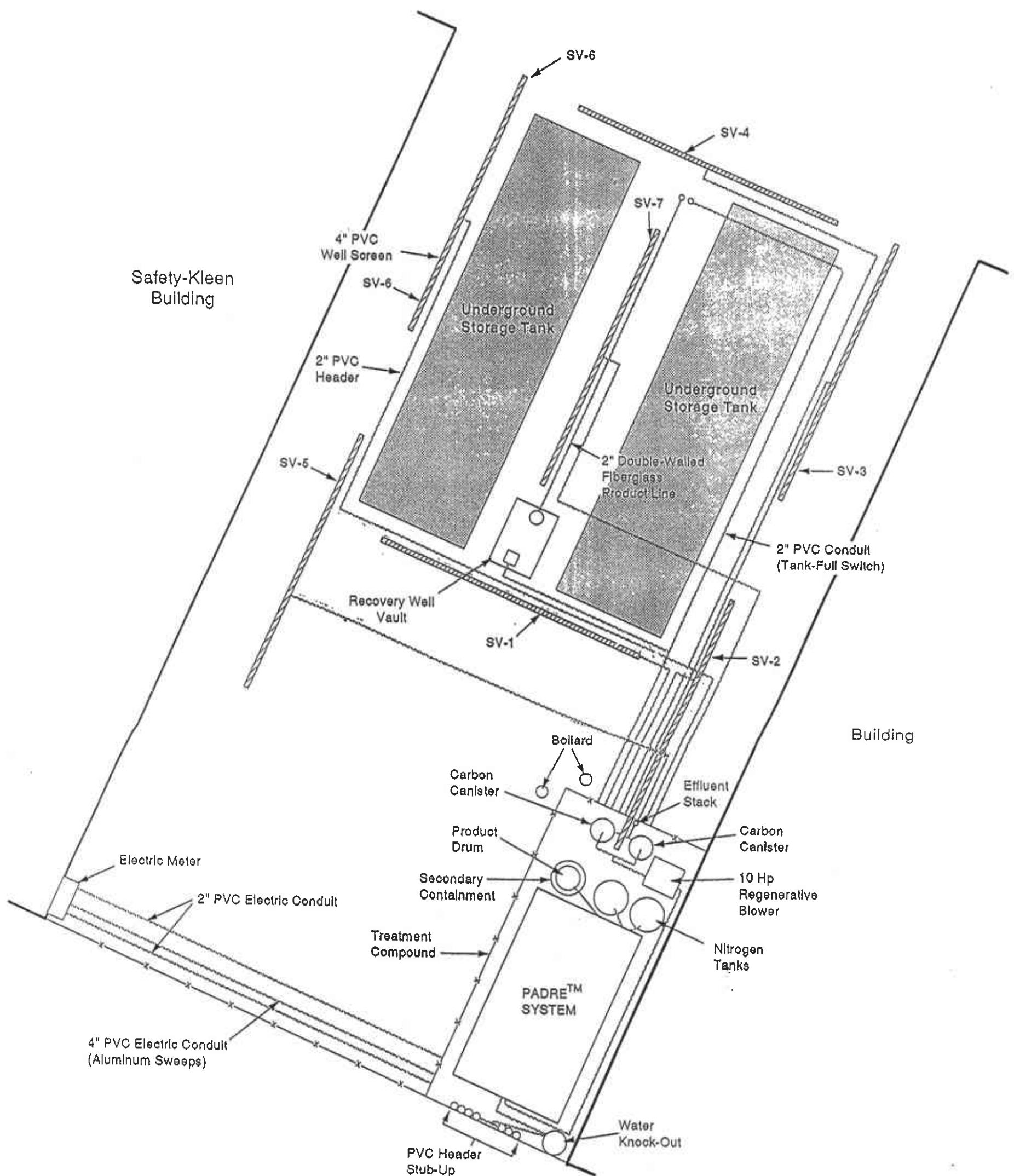
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1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

DRAFTED BY:	CHECKED BY:	PROJECT NO.	FIGURE 1	SECOR
TS	GDH	70005-009	Site Location Map	1390 Willow Pass Road Suite 360 Concord, CA 94520
DWG. DATE:	REV. DATE:	Safety-Kleen Corp. 400 Market Street Oakland, California		
FILE NAME:	Oakland7.F01			

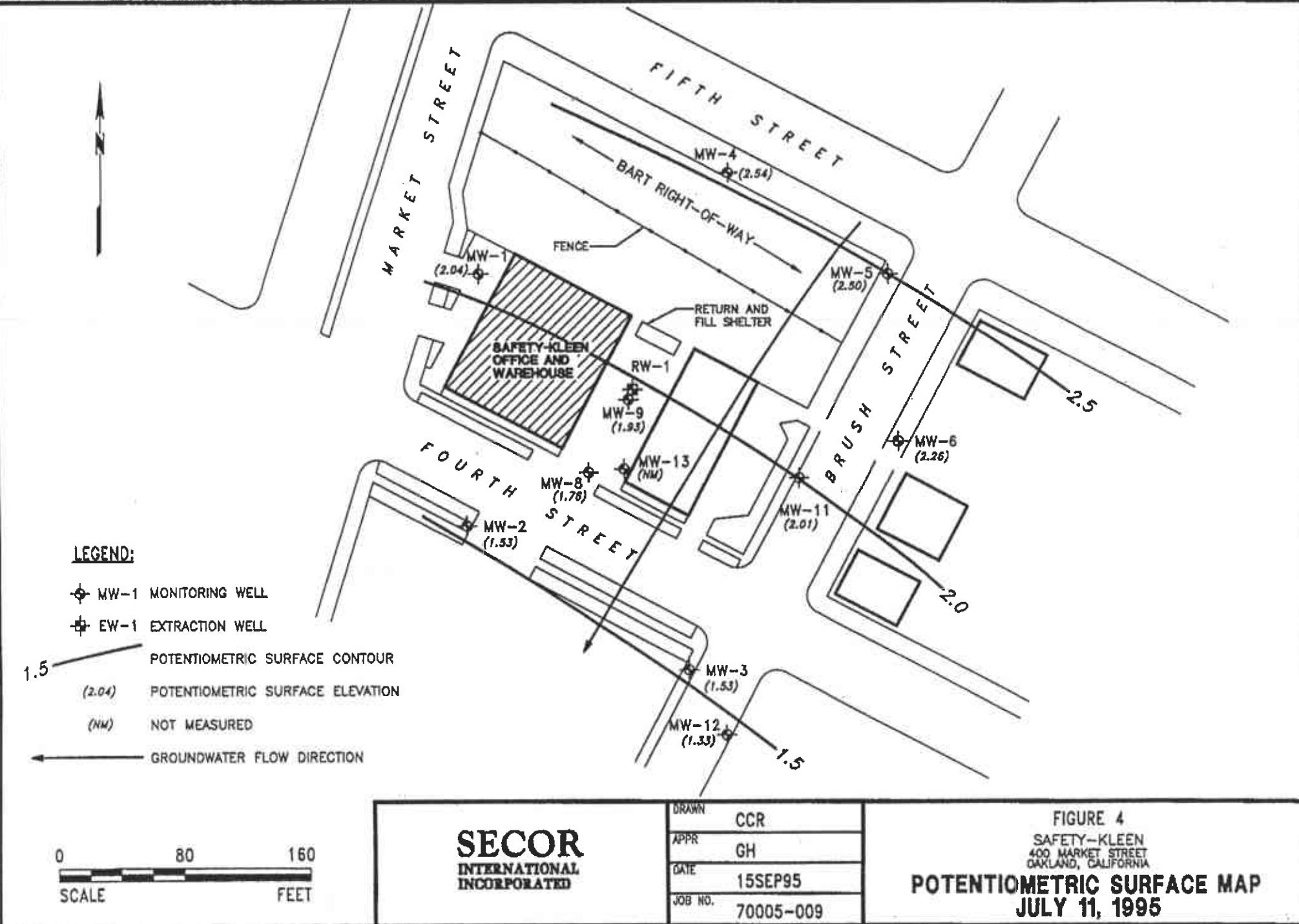




0 10 Feet

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DRAFTED BY: DH	CHECKED BY: 	PROJECT NO. 70005-009	FIGURE 3	SECOR INTERNATIONAL INCORPORATED
DRWG. DATE: 	REV. DATE: 			
FILE NAME: 		Safety-Kleen Service Center 400 Market Street Oakland, California	Soil Vapor Extraction System Layout	



**TABLE 1**  
**Product Recovery Data**  
**from Well RW-1**

Date	Product Recovered This Period (gallons)	Cumulative Product Recovered (gallons)
01-19-93	-	-
02-25-93	6.5	6.5
05-20-93	4.3	10.8
08-27-93	-	10.8
10-24-93	10.3	21.1
02-28-94	22.6	43.7
05-31-94	16.6	60.3
08-31-94	16.4	76.7
11-30-94	16.2	92.9
02-28-95	16.0	108.9
05-31-95	16.6	125.5
08-31-95	16.6	142.1

**TABLE 2**  
**Groundwater Monitoring Data**  
**July 11, 1995**

Well I.D.	TOC Elevation (ft msl)	DTW (ft)	DTP (ft)	PT (ft)	Adjusted Elevation (ft msl)
MW-1	7.99	5.95	-	-	2.04
MW-2	8.20	6.67	-	-	1.53
MW-3	6.66	5.13	-	-	1.53
MW-4	10.32	7.78	-	-	2.54
MW-5	10.28	7.78	-	-	2.50
MW-6	8.97	6.71	-	-	2.26
MW-8	7.80	6.04	-	-	1.76
MW-9	8.21	6.74	6.17	0.57	1.93
MW-10*	10.43	-	-	-	-
MW-11	7.91	5.90	-	-	2.01
MW-12	6.74	5.41	-	-	1.33
MW-13	8.08	6.55	-	-	1.53

---

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

**TABLE 3**  
**SUMMARY OF GROUNDWATER ANALYTICAL RESULTS**  
**DETECTED COMPOUNDS**

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

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

Well No.	MW-2	Demurrage									
Date		04-93	07-93	10-93	01-94	04-94	07-94	10-94	01-95	04-95	07-95
Compound	MCL	(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	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane	150	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane	NE	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	0.5	-	-	-	-	-	-	-	-	-	-

**TABLE 3**  
**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
Compound	MCL	(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	-	-	-	-	-	-	-	-	-
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	
Compound	MCL	(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	-	-	-	-	-	-	-	0.8	5.2	
1,1-Dichloroethane	5	-	-	-	-	-	-	-	-	-	
1,2-Dichloroethane	0.5	-	-	-	-	-	-	-	-	-	
cis-1,2-Dichloroethene	6	-	-	-	-	-	-	-	-	11.8	
trans-1,2-Dichloroethene	10	-	-	-	-	-	-	-	1.0	3.2	
Chloroform	NE	-	-	-	-	-	-	-	-	-	
1,1,1-Trichloroethane	200	-	-	-	-	-	-	-	-	-	
Trichloroethene	5	2400	1100	-	790	1600	410	650	780	440	247
Tetrachloroethene	5	-	-	-	-	-	-	-	-	-	
Chlorobenzene	70	-	-	-	-	-	-	-	-	-	
1,2-Dichloropropane	5	-	-	-	-	-	-	-	-	-	
1,2-Dichlorobenzene	600	-	-	-	-	-	-	-	-	-	
Trichlorofluoromethane	150	-	-	-	-	-	-	-	-	-	
Dichlorodifluoromethane	NE	-	-	-	-	-	-	-	-	-	
Vinyl chloride	0.5	-	-	-	-	-	-	-	-	-	

**TABLE 3**  
**SUMMARY OF GROUNDWATER ANALYTICAL RESULTS**  
**DETECTED COMPOUNDS**

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

Well No.	MW-5	Ann.										
Date		04-93	07-93	10-93	01-94	04-94	07-94	10-94	01-95	04-95	07-95	
Compound	MCL	(ug/l)										
TPH-mineral spirits	NE	-	-	-	-	-	-	NS	NS	NS	-	NS
Benzene	1	-	-	-	-	-	-	NS	NS	NS	-	NS
Toluene	150	-	-	-	-	-	-	NS	NS	NS	-	NS
Ethyl-benzene	700	-	-	-	-	-	-	NS	NS	NS	-	NS
Xylenes	1750	-	-	-	-	-	-	NS	NS	NS	-	NS
1,1-Dichloroethene	6	1.5	0.6	-	-	-	-	NS	NS	NS	-	NS
1,1-Dichloroethane	5	-	-	-	-	-	-	NS	NS	NS	-	NS
1,2-Dichloroethane	0.5	-	-	-	-	-	-	NS	NS	NS	-	NS
cis-1,2-Dichloroethene	6	-	-	-	-	-	-	NS	NS	NS	-	NS
trans-1,2-Dichloroethene	10	-	-	-	-	4.3	3.5	NS	NS	NS	-	NS
Chloroform	NE	-	-	-	-	-	-	NS	NS	NS	-	NS
1,1,1-Trichloroethane	200	4.0	6.0	12	-	7.2	NS	NS	NS	9.1	NS	
Trichloroethene	5	-	-	-	-	-	NS	NS	NS	-	NS	
Tetrachloroethene	5	-	-	-	-	-	NS	NS	NS	-	NS	
Chlorobenzene	70	-	-	-	-	-	NS	NS	NS	-	NS	
1,2-Dichloropropane	5	-	-	-	-	-	NS	NS	NS	-	NS	
1,2-Dichlorobenzene	600	-	-	-	-	-	NS	NS	NS	-	NS	
Trichlorofluoromethane	150	18	19	-	-	7.9	NS	NS	NS	-	NS	
Dichlorodifluoromethane	NE	-	-	-	-	-	NS	NS	NS	-	NS	
Vinyl chloride	0.5	-	-	-	-	-	NS	NS	NS	16	NS	

Well No.	MW-6	Ann.										
Date		04-93	07-93	10-93	01-94	04-94	07-94	10-94	01-95	04-95	07-95	
Compound	MCL	(ug/l)										
TPH-mineral spirits	NE	-	-	-	-	-	-	NS	NS	NS	-	NS
Benzene	1	-	-	-	-	-	-	NS	NS	NS	-	NS
Toluene	150	-	-	-	-	-	-	NS	NS	NS	-	NS
Ethyl-benzene	700	-	-	-	-	-	-	NS	NS	NS	-	NS
Xylenes	1750	-	-	-	-	-	-	NS	NS	NS	-	NS
1,1-Dichloroethene	6	-	-	-	-	-	-	NS	NS	NS	-	NS
1,1-Dichloroethane	5	-	-	-	-	-	-	NS	NS	NS	-	NS
1,2-Dichloroethane	0.5	-	-	-	-	-	-	NS	NS	NS	-	NS
cis-1,2-Dichloroethene	6	-	-	-	-	-	-	NS	NS	NS	-	NS
trans-1,2-Dichloroethene	10	-	-	-	-	-	-	NS	NS	NS	-	NS
Chloroform	NE	-	-	-	-	-	-	NS	NS	NS	-	NS
1,1,1-Trichloroethane	200	-	5.0	1.3	-	1.0	NS	NS	NS	0.4	NS	
Trichloroethene	5	-	-	-	-	-	NS	NS	NS	-	NS	
Tetrachloroethene	5	-	-	-	-	-	NS	NS	NS	-	NS	
Chlorobenzene	70	-	-	-	-	-	NS	NS	NS	-	NS	
1,2-Dichloropropane	5	-	-	-	-	-	NS	NS	NS	-	NS	
1,2-Dichlorobenzene	600	-	-	-	-	-	NS	NS	NS	-	NS	
Trichlorofluoromethane	150	-	-	-	-	-	NS	NS	NS	-	NS	
Dichlorodifluoromethane	NE	-	-	-	-	-	NS	NS	NS	-	NS	
Vinyl chloride	0.5	-	-	-	-	-	NS	NS	NS	-	NS	

**TABLE 3**  
**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
Compound	MCL	(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
1,1-Dichloroethane	5	3.4	-	-	8.6	3.7	NS	5.5	-	-	6.2
1,2-Dichloroethane	0.5	7.4	5.0	5.2	11	7.1	NS	-	-	-	9.8
cis-1,2-Dichloroethene	6	-	-	-	-	-	NS	-	-	-	25.57
trans-1,2-Dichloroethene	10	-	1.0	-	-	-	NS	-	-	-	2.3
Chloroform	NE	-	-	-	-	-	NS	-	-	-	-
1,1,1-Trichloroethane	200	-	-	-	2.5	1.5	NS	-	-	-	-
Trichloroethene <i>TOE</i>	5	14	31	15	22	18	NS	23	2.6	15	163
Tetrachloroethene	5	1.8	-	-	2.0	0.8	NS	-	-	0.4	3.2
Chlorobenzene	70	11	-	5.4	16	-	NS	2.4	1.2	-	6.9
1,2-Dichloropropane	5	0.6	-	-	-	0.8	NS	-	-	-	-
1,2-Dichlorobenzene	600	2.6	-	-	4.8	-	NS	-	-	-	3.8
Trichlorofluoromethane	150	-	-	-	-	-	NS	-	-	-	-
Dichlorodifluoromethane	NE	-	-	-	-	-	NS	-	-	-	-
Vinyl chloride	0.5	-	-	-	-	-	NS	-	-	-	2.6

Well No.	MW-10										
Date		04-93	07-93	10-93	01-94	04-94	07-94	10-94	01-95	04-95	07-95
Compound	MCL	(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	-	2.0	-	-	-	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	-	17	3.0	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
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

**TABLE 3**  
**SUMMARY OF GROUNDWATER ANALYTICAL RESULTS**  
**DETECTED COMPOUNDS**

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

Well No.	MW-11 <i>ann</i>											
Date		04-93	07-93	10-93	01-94	04-94	07-94	10-94	01-95	04-95	07-95	
Compound	MCL	(ug/l)										
TPH-mineral spirits	NE	-	-	-	-	-	-	NS	NS	NS	-	NS
Benzene	1	-	-	-	-	-	-	NS	NS	NS	-	NS
Toluene	150	-	-	-	-	-	-	NS	NS	NS	-	NS
Ethyl-benzene	700	-	-	-	-	-	-	NS	NS	NS	-	NS
Xylenes	1750	-	-	-	-	-	-	NS	NS	NS	-	NS
1,1-Dichloroethene	6	-	2.0	-	-	-	-	NS	NS	NS	-	NS
1,1-Dichloroethane	5	-	-	-	-	-	-	NS	NS	NS	-	NS
1,2-Dichloroethane	0.5	-	-	-	-	-	-	NS	NS	NS	-	NS
cis-1,2-Dichloroethene	6	-	-	-	-	-	-	NS	NS	NS	-	NS
trans-1,2-Dichloroethene	10	-	3.0	-	-	-	-	NS	NS	NS	-	NS
Chloroform	NE	-	-	-	-	-	-	NS	NS	NS	-	NS
1,1,1-Trichloroethane	200	-	2.0	-	-	-	-	NS	NS	NS	-	NS
Trichloroethene	5	9.1	36	11	2.6	3.1	-	NS	NS	NS	3.4	NS
Tetrachloroethene	5	-	-	-	-	-	-	NS	NS	NS	-	NS
Chlorobenzene	70	-	-	-	-	-	-	NS	NS	NS	-	NS
1,2-Dichloropropane	5	-	-	-	-	-	-	NS	NS	NS	-	NS
1,2-Dichlorobenzene	600	-	-	-	-	-	-	NS	NS	NS	-	NS
Trichlorofluoromethane	150	-	-	-	-	-	-	NS	NS	NS	-	NS
Dichlorodifluoromethane	NE	-	-	-	-	-	-	NS	NS	NS	-	NS
Vinyl chloride	0.5	-	-	-	-	-	-	NS	NS	NS	1.4	NS

Well No.	MW-12 <i>Demi-ann</i>											
Date		04-93	07-93	10-93	01-94	04-94	07-94	10-94	01-95	04-95	07-95	
Compound	MCL	(ug/l)										
TPH-mineral spirits	NE	-	-	-	-	-	-	NS	-	NS	-	NS
Benzene	1	-	-	-	-	-	-	NS	-	NS	-	NS
Toluene	150	-	-	-	-	-	-	NS	-	NS	-	NS
Ethyl-benzene	700	-	-	-	-	-	-	NS	-	NS	-	NS
Xylenes	1750	-	-	-	-	-	-	NS	-	NS	-	NS
1,1-Dichloroethene	6	-	-	-	-	-	-	NS	-	NS	-	NS
1,1-Dichloroethane	5	2.6	2.0	-	2.3	1.7	NS	1.6	NS	3.8	NS	
1,2-Dichloroethane	0.5	-	2.0	-	1.2	1.9	NS	-	NS	-	NS	
cis-1,2-Dichloroethene	6	-	-	-	-	-	NS	-	NS	-	NS	
trans-1,2-Dichloroethene	10	-	3.0	-	-	-	NS	-	NS	-	NS	
Chloroform	NE	-	-	-	-	-	NS	-	NS	-	NS	
1,1,1-Trichloroethane	200	-	-	-	-	-	NS	-	NS	-	NS	
Trichloroethene	5	17	30	34	11	44	NS	24	NS	59	NS	
Tetrachloroethene	5	-	-	-	-	-	NS	-	NS	-	NS	
Chlorobenzene	70	-	-	-	-	-	NS	-	NS	-	NS	
1,2-Dichloropropane	5	-	-	-	-	-	NS	-	NS	-	NS	
1,2-Dichlorobenzene	600	-	-	-	-	-	NS	-	NS	-	NS	
Trichlorofluoromethane	150	-	-	-	-	-	NS	-	NS	-	NS	
Dichlorodifluoromethane	NE	-	-	-	-	-	NS	-	NS	-	NS	
Vinyl chloride	0.5	-	-	-	-	-	NS	-	NS	-	NS	

**TABLE 3****SUMMARY OF GROUNDWATER ANALYTICAL RESULTS****DETECTED COMPOUNDS**

*deep well screened ~65' bgs*

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

Well No.	MW-13	ann									
Date	04-93	07-93	10-93	01-94	04-94	07-94	10-94	01-95	04-95	07-95	
Compound	MCL	(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	-	NS	NS	NS	-	NS
1,1-Dichloroethane	5	-	NS	NS	NS	-	NS	NS	NS	-	NS
1,2-Dichloroethane	0.5	-	NS	NS	NS	-	NS	NS	NS	-	NS
cis-1,2-Dichloroethene	6	-	NS	NS	NS	-	NS	NS	NS	-	NS
trans-1,2-Dichloroethene	10	-	NS	NS	NS	-	NS	NS	NS	-	NS
Chloroform	NE	-	NS	NS	NS	-	NS	NS	NS	-	NS
1,1,1-Trichloroethane	200	-	NS	NS	NS	-	NS	NS	NS	-	NS
Trichloroethene	5	-	NS	NS	NS	-	NS	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	-	NS	NS	NS	-	NS
1,2-Dichlorobenzene	600	-	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

**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.

**NOTE:**

Only compounds detected in one or more samples are included.

See the laboratory reports for a complete list of analytes.

***APPENDIX A***

***Well Destruction Permit for Monitoring Well MW-10***

**SECOR**  
*International Incorporated*

July 12, 1995

Mr. Wyman Hong  
Alameda County Food Control and Water Conservation District  
5997 Parkside Drive  
Pleasanton, California 94588-5127

RE: Well Destruction - MW-10  
Safety-Kleen Service Center  
400 Market Street  
Oakland, California

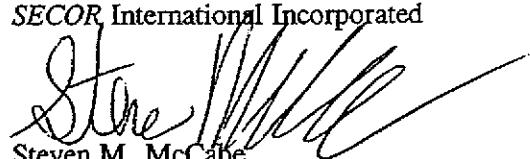
Dear Mr. Hong:

As I discussed with you in a telephone conversation on Friday, July 6, 1995, monitor well MW-10 appears to have been destroyed by Cal Trans work being conducted in the area. I met Norman Freitag of Cal Trans on site to try and locate the well on July 6, 1995. His phone number is (510) 614-5951. There appeared to be a 5 foot deep excavation in the area of MW-10, and sections of broken PVC were observed in the area. I dug around the area with a shovel, but was unable to locate the well. The well was located on the north side of 5th street between Brush Street and Market Street.

Mr. Freitag said he considered the well abandoned, therefore, I have attached a Well Destruction Permit Application with this letter. Please let me know if you have any questions or comments regarding this matter.

Sincerely,

SECOR International Incorporated

  
Steven M. McCabe

Project Hydrogeologist

Attachment

Permit # 95459



***APPENDIX B***

***Field Data Sheets***

**SECOR****HYDROLOGIC DATA SHEET**

PROJECT: SAFETY-KLEEN OAKLAND			PROJECT NO.: 70005-009-07 TASK: 001				
DATE: July 11, 1995		TIME START: 0700			TIME END: 1000		
EVENT: QUARTERLY MONITORING AND SAMPLING						PERSONNEL: R. Ravelo	
WELL ID	TOC	DTW	DTP	PT	TD	ELEV.	COMMENTS
MW-1	7.99	5.95			21.49	2.04	
MW-2	8.20	6.67			29.21	1.53	
MW-3	6.66	5.13			26.20	1.53	
MW-4	10.32	7.78			25.40	2.54	
MW-5	10.28	7.78			28.98	2.50	
MW-6	8.97	6.71			28.97	2.26	
MW-8	7.80	6.04			28.93	1.76	
MW-9	8.21	6.74	6.17	0.57	-	1.93	
MW-10	10.43						Destroyed
MW-11	7.91	5.90			27.50	2.01	
MW-12	6.74	5.41			25.38	1.33	
MW-13	8.08	6.55			69.00	1.53	
RW-1	-	5.52	5.31	0.21	-		
NOTES:							

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)









## **APPENDIX C**

### *Laboratory Reports - Groundwater*

Project ID #: 70005-009

TPH

Page 1 of 1

Project ID Name: Oakland, CA

SK Lab Project #: 95-102

Date Reported: 8/14/95

## ANALYTICAL RESULTS

### Total Petroleum Hydrocarbons as Mineral Spirits in Water

Modified EPA Method 8015

Extraction By EPA Method 5030

Work Order #	Collector's Sample #	Date Sampled	Date Extracted	Date Analyzed	Concentration (ug/L)
01	MW-4	7/11/95	7/20/95	7/20/95	<50
02	MW-3	7/11/95	7/20/95	7/20/95	<50
03	MW-8	7/11/95	7/20/95	7/20/95	<50
04	MW-2	7/11/95	7/20/95	7/20/95	<50

Analytical Review / Date:

*Al Koch* 8/14/95

Project ID #: 70005-009  
Project ID Name: Oakland, CA  
SK Lab Project #: 95-102  
Date Reported: 8/14/95

BTEX Page 1 of 1

## ANALYTICAL RESULTS

### Volatile Organics in Water

EPA Method 8021

Work Order #	01	02	03	04	
Collector's Sample #	MW-4	MW-3	MW-8	MW-2	
Date Sampled	7/11/95	7/11/95	7/11/95	7/11/95	
Date Analyzed	7/24/95	7/24/95	7/24/95	7/24/95	
Dilution Factor	1	1	1	1	
Analyte	Report Limit mg/L	Concentration mg/L			
Benzene	0.005	<0.005	<0.005	<0.005	<0.005
Ethylbenzene	0.005	<0.005	<0.005	<0.005	<0.005
Toluene	0.005	<0.005	<0.005	<0.005	<0.005
Xylene (Total)	0.005	<0.005	<0.005	<0.005	<0.005

Analytical Review / Date:

*[Signature]* 8/14/95

Project ID Name: Oakland, CA

SK Lab Project #: 95-102

Date Reported: 8/14/95

**ANALYTICAL RESULTS****Volatile Organics in Water**

EPA Method 8021

Work Order #	01	02	03	04
Collector's Sample #	MW-4	MW-3	MW-8	MW-2
Date Sampled	7/11/95	7/11/95	7/11/95	7/11/95
Date Analyzed	7/17/95	7/17/95	7/17/95	7/17/95
Dilution Factor	1	1	1	1
Analyte	Report Limit / $\mu$ g/L	Concentration / $\mu$ g/L		
Benzene	1.0	<1.0	<1.0	<1.0
Bromobenzene	1.0	<1.0	<1.0	<1.0
Bromochloromethane	1.0	<1.0	<1.0	<1.0
Bromodichloromethane	1.0	<1.0	<1.0	<1.0
Bromoform	1.0	<1.0	<1.0	<1.0
Bromomethane	1.0	<1.0	<1.0	<1.0
-Butylbenzene	1.0	<1.0	<1.0	<1.0
sec-Butylbenzene	1.0	<1.0	<1.0	<1.0
tert-Butylbenzene	1.0	<1.0	<1.0	<1.0
Carbon Tetrachloride	1.0	<1.0	<1.0	<1.0
Chlorobenzene	1.0	<1.0	<1.0	6.9
Chlorodibromomethane	1.0	<1.0	<1.0	<1.0
Chloroethane	1.0	<1.0	<1.0	<1.0
Chloroform	1.0	<1.0	<1.0	<1.0
Chloromethane	1.0	<1.0	<1.0	<1.0
2-Chlorotoluene	1.0	<1.0	<1.0	<1.0
-Chlorotoluene	1.0	<1.0	<1.0	<1.0
1,2-Dibromo-3-chloropropane	1.0	<1.0	<1.0	<1.0
,2-Dibromoethane	1.0	<1.0	<1.0	<1.0
Dibromomethane	1.0	<1.0	<1.0	<1.0

Project ID Name: Oakland, CA

SK Lab Project #: 95-102

Date Reported: 8/14/95

**ANALYTICAL RESULTS****Volatile Organics in Water**

EPA Method 8021

Work Order #	01	02	03	04	
Collector's Sample #	MW-4	MW-3	MW-8	MW-2	
Date Sampled	7/11/95	7/11/95	7/11/95	7/11/95	
Date Analyzed	7/17/95	7/17/95	7/17/95	7/17/95	
Dilution Factor	1	1	1	1	
Analyte	Report Limit (ppb)	Concentration (ppb)			
,2-Dichlorobenzene	1.0	<1.0	<1.0	3.8	<1.0
1,3-Dichlorobenzene	1.0	<1.0	<1.0	<1.0	<1.0
,4-Dichlorobenzene	1.0	<1.0	<1.0	<1.0	<1.0
Dichlorodifluoromethane	1.0	<1.0	<1.0	<1.0	<1.0
,1-Dichloroethane	1.0	<1.0	<1.0	6.2	<1.0
1,2-Dichloroethane	1.0	<1.0	<1.0	9.8	<1.0
,1-Dichloroethene	1.0	5.2	<1.0	3.5	<1.0
cis-1,2-Dichloroethene	1.0	11.8	<1.0	25.57	<1.0
trans-1,2-Dichloroethene	1.0	3.2	<1.0	2.3	<1.0
1,2-Dichloropropane	1.0	<1.0	<1.0	<1.0	<1.0
,3-Dichloropropane	1.0	<1.0	<1.0	<1.0	<1.0
2,2-Dichloropropane	1.0	<1.0	<1.0	<1.0	<1.0
,1-Dichloropropene	1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-dichloropropene	1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-dichloropropene	1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	1.0	<1.0	<1.0	<1.0	<1.0
Hexachlorobutadiene	1.0	<1.0	<1.0	<1.0	<1.0
Isopropylbenzene	1.0	<1.0	<1.0	<1.0	<1.0
p-Isopropyltoluene	1.0	<1.0	<1.0	<1.0	<1.0
Methylene Chloride	1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene	1.0	<1.0	<1.0	<1.0	<1.0

Project ID Name: Oakland, CA

SK Lab Project #: 95-102

Date Reported: 8/14/95

**ANALYTICAL RESULTS****Volatile Organics in Water**

EPA Method 8021

Work Order #	01	02	03	04
Collector's Sample #	MW-4	MW-3	MW-8	MW-2
Date Sampled	7/11/95	7/11/95	7/11/95	7/11/95
Date Analyzed	7/17/95	7/17/95	7/17/95	7/17/95
Dilution Factor	1	1	1	1
Analyst	Report Limit /ug/L		Concentration /ug/L	
Propylbenzene	1.0	<1.0	<1.0	<1.0
Styrene	1.0	<1.0	<1.0	<1.0
1,1,2-Tetrachloroethane	1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	1.0	<1.0	<1.0	<1.0
Tetrachloroethylene	1.0	<1.0	<1.0	3.2
Toluene	1.0	<1.0	<1.0	<1.0
2,3-Trichlorobenzene	1.0	<1.0	<1.0	<1.0
1,2,4-Trichlorobenzene	1.0	<1.0	<1.0	<1.0
1,1-Trichloroethane	1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	1.0	<1.0	<1.0	<1.0
Trichloroethylene	1.0	247	<1.0	163
Trichlorofluoromethane	1.0	<1.0	<1.0	<1.0
2,3-Trichloropropane	1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	1.0	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene	1.0	<1.0	<1.0	<1.0
Vinyl Chloride	1.0	<1.0	<1.0	2.6
Cylenes (Total)	1.0	<1.0	<1.0	<1.0

Analytical Review / Date:

Wilson 8/14/95

DATE: July 11 1995

95-ENVK  
95-10#2

## **ENVIRONMENTAL CHAIN OF CUSTODY**

**Philip Hollingshead**

WE CARE.  
MAY 2012

DATE: July 11 1993	PROJECT #	70005-009
SAFETY-KLEEN 400 MARKET ST. OAKLAND, CA.	PROJECT MANAGER(S)	AUTHORIZATION #
GENERATOR SITE & ADDRESS	GREG HOETH 1390 William Pass CONCORD, CA.	(510) 686-9980 (510) 686-3099 (fax) PHONE & FAX

SAMPLER'S NAME

R. PAYELO

**ANALYSIS REQUESTED**

COMMENTS/REMARKS: \* TPH as mineral spirits by Purge trap

REQUESTED TAT

**SAMPLE TRANSFER RECORD**

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
SIGNATURE OF COLLECTOR: <u>AN</u>	<u>3/11/95</u>	<u>15:00</u>	<u>W.H.</u>		

SK TCLP LAB USE ONLY

TEMPERATURE WHEN RECEIVED  $13^{\circ}\text{C}$

SHIPPED VIA: UPS FED EX OTHER

SAMPLE KIT OPENED AND CHECKED IN BY

AT&T.COM

**ALL SAMPLES SIGNED, DATED AND INTACT ON ALL SAMPLE JARS? YES NO**

**IF NO, EXPLAIN**

#### **ANSWERING QUESTIONS AND COMMENTS:**

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