



March 30, 1995

VIA CERTIFIED MAIL NO. Z425868554

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



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 December 1994 through February 1995.

As described in the letter submitted on July 13, 1994, and modified and approved by Alameda County in a response letter dated July 27, 1994, Safety-Kleen is following the modified groundwater sampling schedule.

Safety-Kleen is in receipt of your March 6, 1995 letter which requested the soil vapor extraction (SVE) system be restarted by April 6, 1995. The request was prompted due to the concern over the accumulation of mineral spirits on the watertable. As you are aware, a free-product skimming pump is installed and removing product from recovery well RW-1. Therefore, the mineral spirits accumulation is continuing to be addressed while the SVE system is not operating. Safety-Kleen is currently addressing the recommencement of the Purus system or the potential modification of the SVE system to incorporate carbon adsorption. As indicated in your telephone conversation on March 6, 1995 with Greg Hoehn of SECOR International Incorporated, Safety-Kleen will be attempting to recommence the Purus system operation; however, if this can not be accomplished by March 31, 1995, Mr. Hoehn indicated Safety-Kleen's intent to convert the vapor abatement process to carbon adsorption. This requires the procurement of additional equipment and modification of the existing BAAQMD permit. Safety-Kleen anticipates that a carbon system will be on line by April 30, 1995, unless the BAAQMD requires a longer period of time to review the air permit modification. Safety-Kleen will inform you two days prior to the system conversion, as per your request.

As of April 3, 1995, I will no longer be the Safety-Kleen contact for this project. Mr. Edward (Chip) Prokop will assume the Senior Project Manager-Remediation position for this project. He can be contacted at (503) 655-5798. His mailing address is: 16540 SE 130th Street, Clackamas, Oregon 97015.

OAKLAND7.L04

March 30, 1995

SECOR Job No. 70005-009-07

1000 NORTH RANDALL ROAD

ELGIN, ILLINOIS 60123-7857


PHONE 708/697-8460

FAX 708/468-8500

Ms. Jennifer Eberle
Health Care Services Agency
March 30, 1995
Page 2

If you have any questions or comments regarding this correspondence, I can be contacted at the Safety-Kleen office in Elgin, Illinois at (800) 669-5740 (extension 2216). If you have any questions prior to April 3, 1995, please call me at (310) 546-2082.

Sincerely,



Anne Lunt
Senior Project Manager - Remediation
Safety-Kleen Corp.

Enclosure

cc: Gary Long, 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



March 28, 1995

VIA CERTIFIED MAIL NO. Z425868555

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

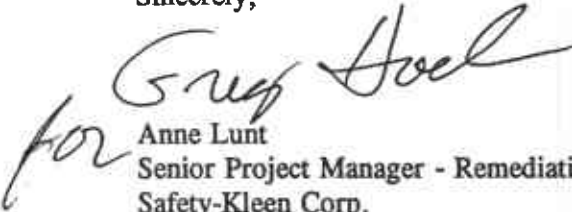
Dear Mr. Ritchie:

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 December 1994 through February 1995.

As described in the letter submitted on July 13, 1994, and modified and approved by Alameda County in a response letter dated July 27, 1994, Safety-Kleen is following the modified groundwater sampling schedule. The January 4, 1995 groundwater sampling was a quarterly event.

If you have any questions, please call me at (310) 546-2082.

Sincerely,


for Anne Lunt
Senior Project Manager - Remediation
Safety-Kleen Corp.

cc: Gary Long, Safety-Kleen Corp.
Scott Davies, Safety-Kleen Corp.
Branch Environmental File (7-178-01)
Robert Senga, State of California Department of Health Services - DTSC
Jennifer Eberle, Alameda County Health Care Services Agency
Scott Comiso, BAAQMD
Greg Hoehn, SECOR

OAKLAND7.L05
March 28, 1995
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


3-28-95

Prepared For:
Ms. Anne Lunt
Safety-Kleen Corp.
P.O. Box 1447
Manhattan Beach, California 90266

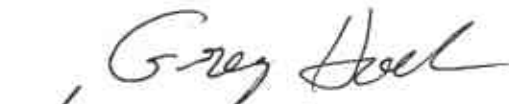
Submitted By:
SECOR International Incorporated
1390 Willow Pass Road
Suite 360
Concord, California 94520

March 28, 1995

Prepared By:


Steven M. McCabe
Project Hydrogeologist

Reviewed By:


for 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 December 1994 through February 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 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 a Padre™ regenerative adsorption system manufactured by Purus, Inc., followed by a granular activated carbon (GAC) polish. Figure 3 depicts the layout of the vapor extraction lines and the vapor treatment system. A detailed description of the SVE system can be found in the report entitled *Quarterly Groundwater Monitoring and Soil Vapor Extraction Report* dated October 1, 1993. Prior to June 30, 1993, the SVE system startup and operation was conducted in accordance with the Bay Area Air Quality Management District (BAAQMD) Authority to Construct Permit dated March 4, 1993. System operation since June 30, 1993 has been conducted in accordance with the Permit to Operate dated June 30, 1993 and amended October 20, 1994 to modify the monitoring schedule to monthly.

3.0 SCOPE OF WORK

Work conducted during this quarter consisted of the monitoring and sampling of six 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 due to a system fault. In addition, the system was down when PVC piping was damaged during the installation of UST cathodic protection. The SVE piping was repaired in December 1994; however, the system remains non-operational because of concerns over a potential electrical code violation. Safety-Kleen is conducting an engineering evaluation to determine if the recommencement of the Purus system is feasible at this time or should the SVE system be modified to use carbon for vapor abatement purposes. Operation of the SVE system will be resumed when a final determination is made.

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 January 4, 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 not monitored due to access being restricted by Caltrans by the presence of a fence located around property north of Fifth Street (Figure 2). 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 on January 4, 1995, monitoring wells MW-2 through MW-4, and MW-8 (in accordance with the quarterly sampling schedule) were purged by hand bailing until approximately 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, groundwater samples were collected using disposable samplers. The groundwater samples were placed into laboratory supplied sample containers. Field data sheets which include depth-to-water measurements and well purge data are included in Appendix A.

The groundwater samples were labeled, placed on ice, and delivered to a state-certified laboratory for analysis under chain-of-custody documentation. The groundwater samples were analyzed for the presence of 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 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 proper disposal.

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 was calculated to be 16 gallons during this reporting period. A total of 108.9 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

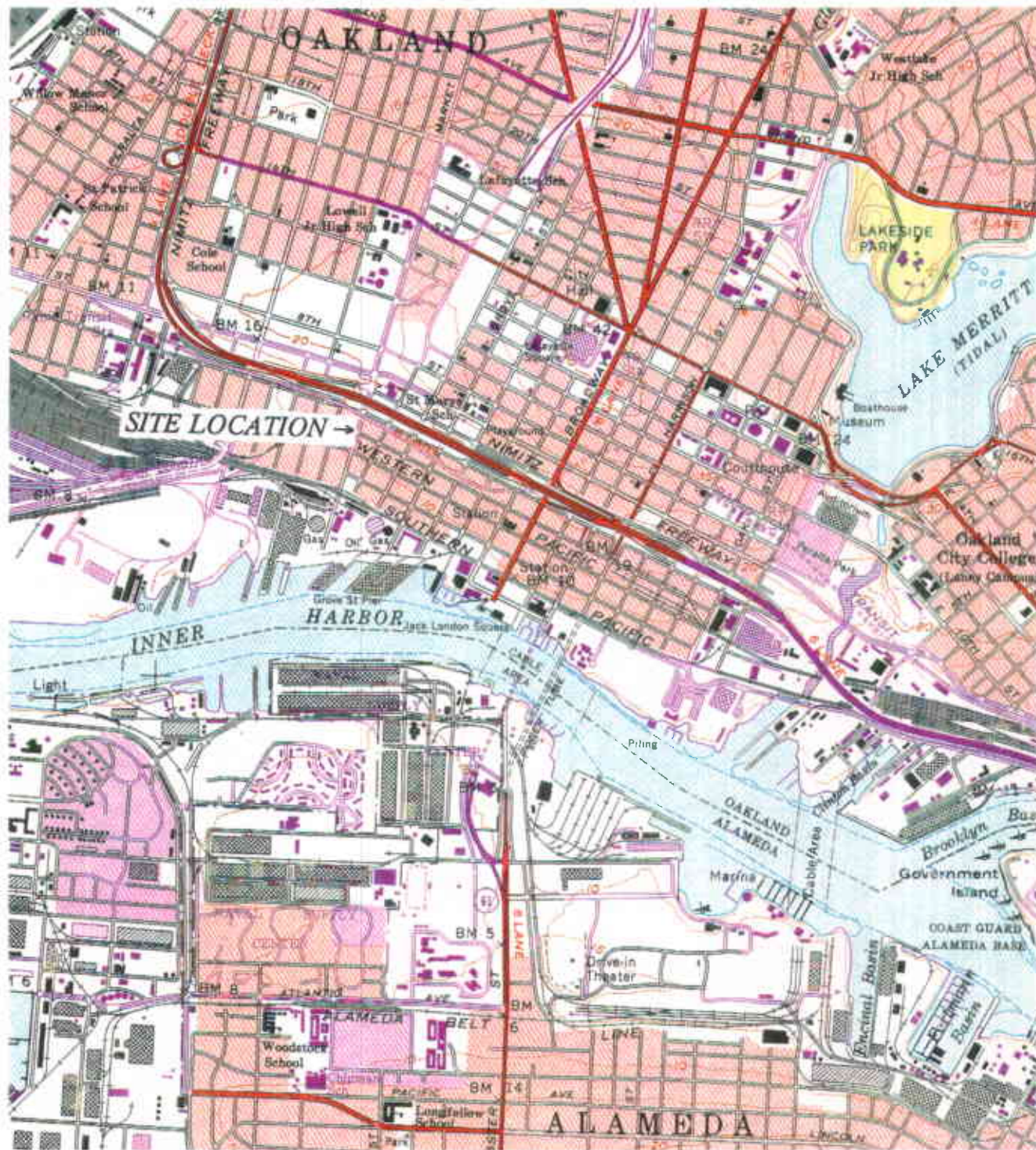
Groundwater elevations and depth-to-water readings as measured on January 4, 1995 are presented in Table 2. The average water table elevation increased by an average of 1.99 feet since the October 19, 1994 monitoring and sampling event. A potentiometric surface map prepared with the January 4, 1995 data is presented as Figure 4.

The groundwater flow direction remains to the southwest, consistent with historic site data. The hydraulic gradient is an average of 0.003 feet/foot (ft/ft) across the site and is similar to the previous quarter's data and is typical for the site.

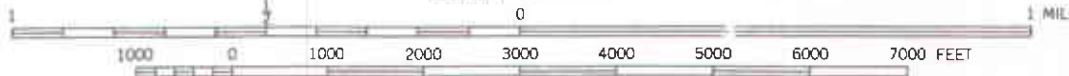
4.4 Groundwater Conditions

No concentrations of BTEX were detected above the laboratory detection limits in any of the groundwater samples collected on January 4, 1995. No concentrations of TPHms or VOCs were detected in wells MW-2 or MW-3. Trans-1,2-dichloroethane, 1,1-dichloroethene and trichloroethene (TCE) were detected in the groundwater sample collected from well MW-4 at concentrations of 1.4 $\mu\text{g}/\ell$, 0.7 $\mu\text{g}/\ell$ and 700 $\mu\text{g}/\ell$ respectively. The analysis of the sample from well MW-8 detected TCE at 2.6 $\mu\text{g}/\ell$ and chlorobenzene at 1.2 $\mu\text{g}/\ell$. 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 B.

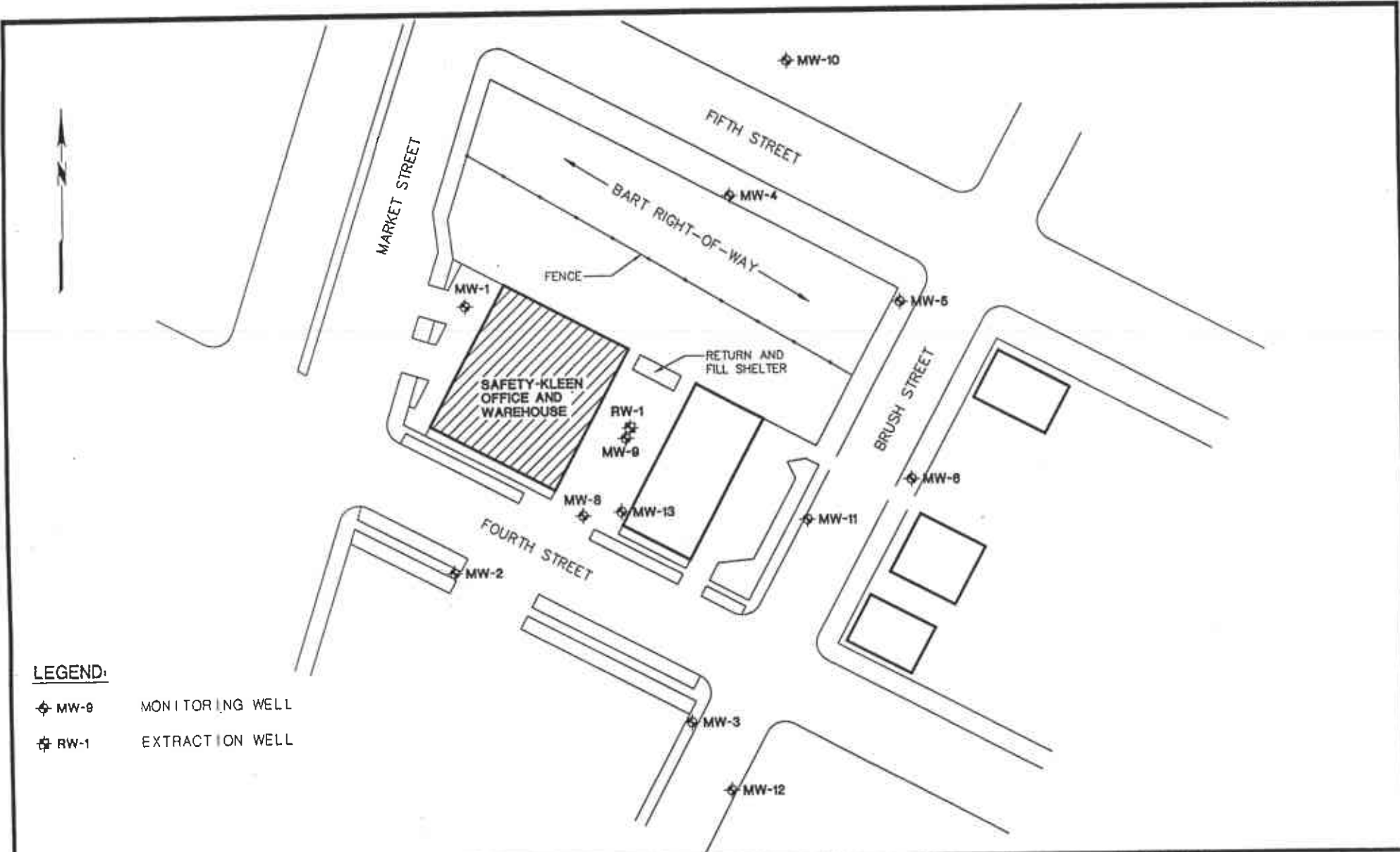
OAKLAND WEST QUADRANGLE
 CALIFORNIA
 7.5 MINUTE SERIES (TOPOGRAPHIC)



SCALE 1:24,000

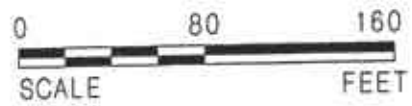


DRAFTED BY: TS	CHECKED BY: GDH	PROJECT NO. 70005-009	FIGURE 1	SEACOR 1390 Willow Pass Road Suite 360 Concord, CA 94520
DWG. DATE: 04/05/94	REV. DATE: 04/05/94			
FILE NAME: OAKLAND2.F01				



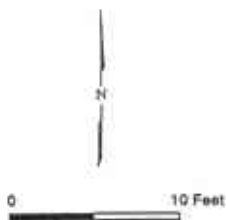
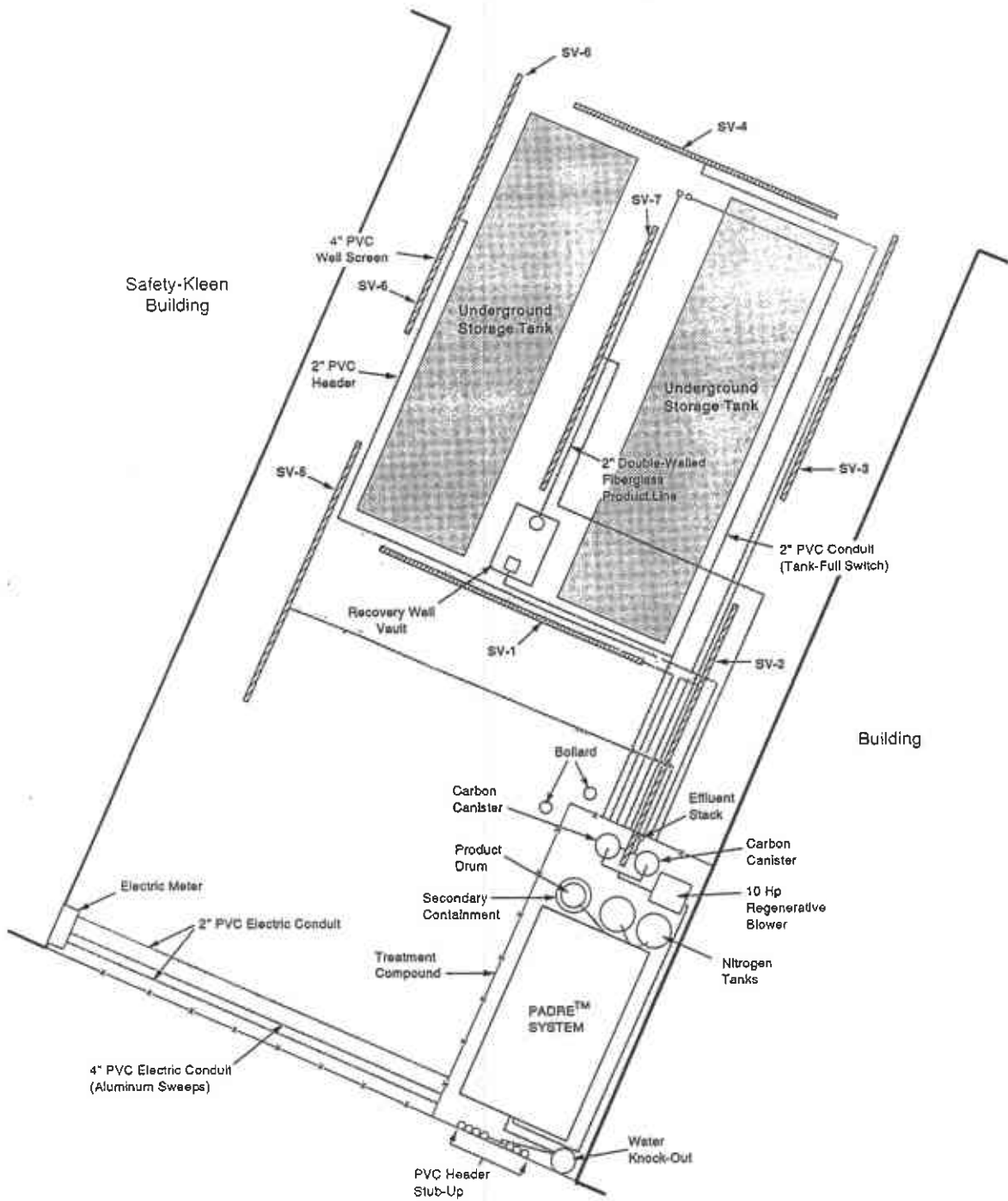
LEGEND:

- ◆ MW-# MONITORING WELL
- ⊕ RW-1 EXTRACTION WELL

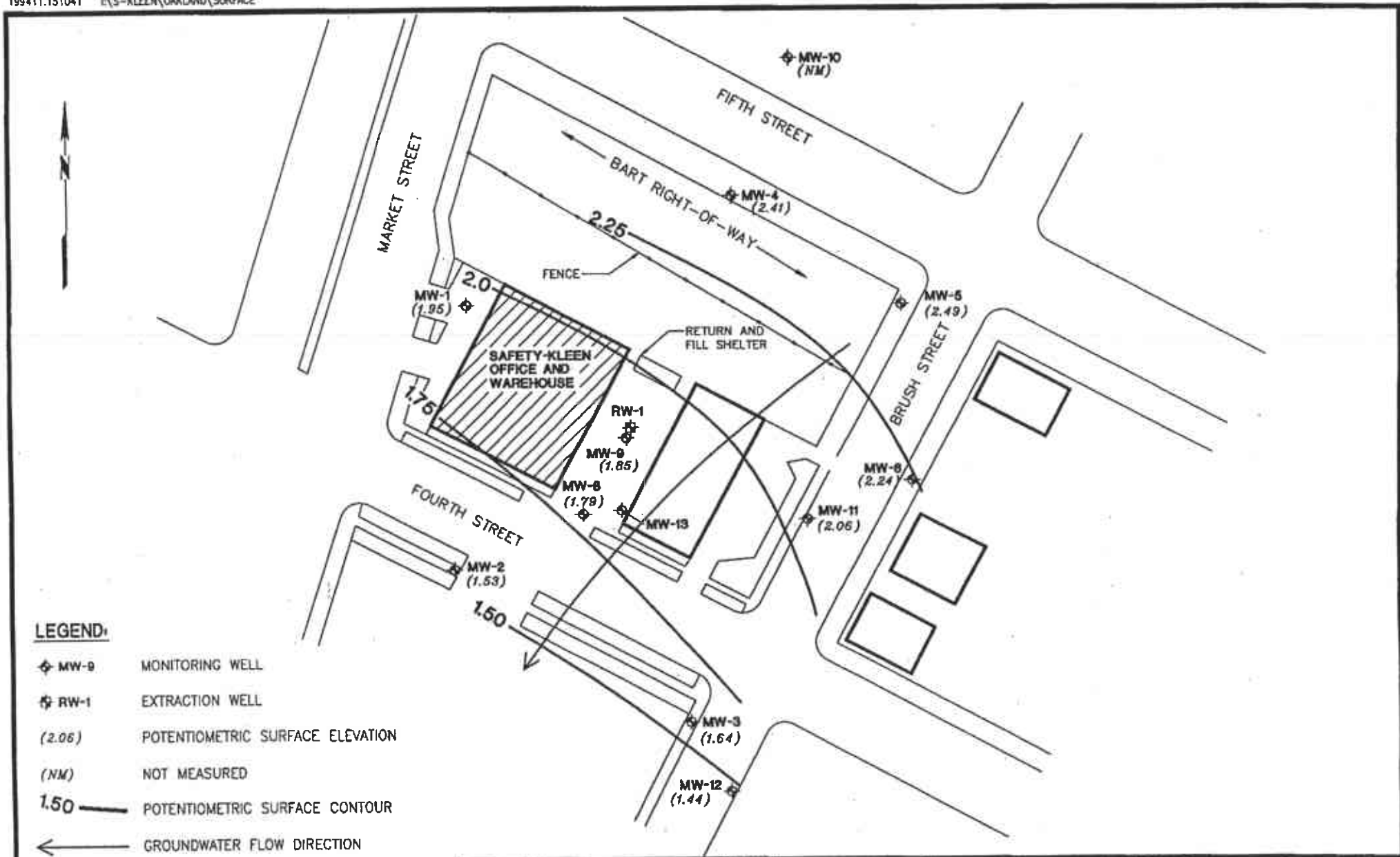


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FIGURE 2
SAFETY-KLEEN
 400 MARKET STREET
 OAKLAND, CALIFORNIA
SITE PLAN

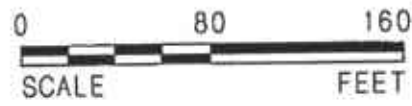


DRAFTED BY: CH	CHECKED BY:	PROJECT NO. 70005-009	FIGURE 3	SECOR INTERNATIONAL INCORPORATED
DRWG. DATE:	REV. DATE:	Safety-Kleen Service Center 400 Market Street Oakland, California	Soil Vapor Extraction System Layout	
FILE NAME:				



LEGEND:

- ◆ MW-9 MONITORING WELL
- ◆ RW-1 EXTRACTION WELL
- (2.06) POTENTIOMETRIC SURFACE ELEVATION
- (NM) NOT MEASURED
- 1.50 — POTENTIOMETRIC SURFACE CONTOUR
- ← GROUNDWATER FLOW DIRECTION



SECOR INTERNATIONAL INCORPORATED	DRAWN	CCR
	APPR	GH
	DATE	10JAN95
	JOB NO.	70005-009

**FIGURE 4
SAFETY-KLEEN
400 MARKET STREET
OAKLAND, CALIFORNIA
POTENTIOMETRIC SURFACE MAP
JANUARY 4, 1995**

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

Table 2
Groundwater Monitoring Data
January 4, 1995

Well I.D.	TOC Elevation (ft msl)	DTW (ft)	DTP (ft)	PT (ft)	ADJ Elevation (ft msl)
MW-1	7.99	6.04	-	-	1.95
MW-2	8.20	6.67	-	-	1.53
MW-3	6.66	5.02	-	-	1.64
MW-4	10.32	7.91	-	-	2.41
MW-5	10.28	7.79	-	-	2.49
MW-6	8.97	6.73	-	-	2.24
MW-8	7.80	6.01	-	-	1.79
MW-9	8.21	6.61	6.30	0.31	1.85
MW-10	10.43	NM	-	-	-
MW-11	7.91	5.85	-	-	2.06
MW-12	6.74	5.30	-	-	1.44
MW-13	8.08	6.75	-	-	1.33

TOC = Top of casing
 DTW = Depth-to-water
 DTP = Depth-to-product (separate-phase hydrocarbons)
 PT = product thickness
 ADJ Elevation = Adjusted groundwater elevation
 ft msl = Measurement in feet (ft) relative to mean sea level (msl)
 * = Well was not accessible due to Caltrans demolition work
 NM = Not Measured

Table 3
Summary of Analytical Results of Groundwater Samples
(Results in Parts Per Billion)

Well No.	Date	TPHms	B	T	E	X	1,1-DCE	1,1-DCA	1,1,1-DCA	trans-1,2-DCE	Chloroform	1,1,1-TCA	TCE	PCE	CB	1,2-DCP	1,2-DCB	TCFM	
MW-1 <i>Semi gran.</i>	04-93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	07-93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	10-93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	01-94	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	04-94	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	07-94	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10-94	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	01-95 <i>NS pk</i>	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-2	04-93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	07-93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	10-93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	01-94	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	04-94	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	07-94	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	10-94	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	01-95	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MCL	NE	1.0	150	700	1750	6.0	5.0	0.5	10.0	NE	200	5.0	5.0	70	5.0	600	150		

TPHms = total petroleum hydrocarbons as mineral spirits
 B = Benzene
 T = Toluene
 E = Ethylbenzene
 X = Xylenes

DCE = Dichloroethene
 DCA = Dichloroethane
 TCA = Trichloroethane
 TCE = Trichloroethene
 PCE = Tetrachloroethene

CB = Chlorobenzene
 DCP = Dichloropropane
 DCB = Dichlorobenzene
 TCFM = Trichlorofluoromethane
 MCL = Maximum contaminant level for primary drinking water constituents

NE = Not Established
 NS = Not Sampled
 - = Not Detected

NOTES:

Only compounds detected in one or more samples are included. See the laboratory reports for a complete list of analytes.
 * The TPH as mineral spirits result is the result of an unknown hydrocarbon consisting of a single peak.

Table 3 - Continued
Summary of Analytical Results of Groundwater Samples
 (Results in Parts Per Billion)
 Page 2

Well No.	Date	TPHms	B	T	E	X	1,1-DCE	1,1-DCA	1,2-DCA	trans-1,2-DCE	Chlorobenz	1,1,1-TCA	TCE	PCE	CB	1,2-DCP	1,2-DCB	TCFM
MW-3	04-93	-	-	-	-	-	-	-	-	-	-	-	0.7	-	-	-	-	-
	07-93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10-93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	01-94	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	04-94	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8
	07-94	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10-94	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	01-95	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-4	04-93	-	-	-	-	-	-	-	-	-	7.6	-	2400	-	-	-	-	-
	07-93	-	-	-	-	-	-	-	-	53	-	-	1100	-	-	-	-	-
	10-93	* 400	-	-	-	-	-	-	-	0.6	1.9	-	-	-	-	-	-	-
	01-94	* 270	-	-	-	-	-	-	-	1.1	-	-	790	-	-	-	-	-
	04-94	* 760	-	-	-	-	-	-	-	1.7	5.0	-	1600	-	-	-	-	-
	07-94	* 200	-	-	-	-	-	-	-	-	-	-	410	-	-	-	-	-
	10-94	* 330	-	-	-	-	-	-	-	-	-	-	650	-	-	-	-	-
	01-95	** -	-	-	-	-	-	0.7	-	-	1.4	-	700	-	-	-	-	-
MCL	NE	1.0	150	700	1750	6.0	5.0	0.5	10.0	NE	200	5.0	5.0	70	5.0	600	150	

TPHms = total petroleum hydrocarbons as mineral spirits
 B = Benzene
 T = Toluene
 E = Ethylbenzene
 X = Xylenes

DCE = Dichloroethene
 DCA = Dichloroethane
 TCA = Trichloroethane
 TCE = Trichloroethene
 PCE = Tetrachloroethene

CB = Chlorobenzene
 DCP = Dichloropropane
 DCB = Dichlorobenzene
 TCFM = Trichlorofluoromethane
 MCL = Maximum contaminant level for primary drinking water constituents

NE = Not Established
 NS = Not Sampled
 - = Not Detected

NOTES:

Only compounds detected in one or more samples are included. See the laboratory reports for a complete list of analytes.
 * The TPH as mineral spirits result is the result of an unknown hydrocarbon consisting of a single peak.
 ** Sample is ND for mineral spirits, but a positive response due to a single peak quantified against the mineral spirits standard.

Table 3 - Continued
 Summary of Analytical Results of Groundwater Samples
 (Results in Parts Per Billion)
 Page 3

Well No.	Date	TPHms	B	T	E	X	1,1-DCE	1,1-DCA	1,2-DCA	trans-1,2-DCE	Chlorobenzene	1,1,1-TCA	TCE	PCE	CB	1,2-DCP	1,2-DCB	TCFM
MW-5 <i>Ann</i>	04-93	-	-	-	-	-	1.5	-	-	-	-	-	4.0	-	-	-	-	18
	07-93	-	-	-	-	-	0.6	-	-	-	-	-	6.0	-	-	-	-	19
	10-93	-	-	-	-	-	-	-	-	-	-	-	12	-	-	-	-	-
	01-94	-	-	-	-	-	-	-	-	-	4.3	-	-	-	-	-	-	-
	04-94	-	-	-	-	-	-	-	-	-	3.5	-	7.2	-	-	-	-	7.9
	07-94	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10-94	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	01-95 <i>ok</i>	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6 <i>Ann</i>	04-93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	07-93	-	-	-	-	-	-	-	-	-	-	-	5.0	-	-	-	-	-
	10-93	-	-	-	-	-	-	-	-	-	-	-	1.3	-	-	-	-	-
	01-94	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	04-94	-	-	-	-	-	-	-	-	-	-	-	1.0	-	-	-	-	-
	07-94	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10-94	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	01-95 <i>ok</i>	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MCL	NE	1.0	150	700	1750	6.0	5.0	0.5	10.0	NE	200	5.0	5.0	70	5.0	600	150	

TPHms = total petroleum hydrocarbons as mineral spirits
 B = Benzene
 T = Toluene
 E = Ethylbenzene
 X = Xylenes

DCE = Dichloroethene
 DCA = Dichloroethane
 TCA = Trichloroethane
 TCE = Trichloroethene
 PCE = Tetrachloroethene

CB = Chlorobenzene
 DCP = Dichloropropane
 DCB = Dichlorobenzene
 TCFM = Trichlorofluoromethane
 MCL = Maximum contaminant level for primary drinking water constituents

NE = Not Established
 NS = Not Sampled
 - = Not Detected

NOTES:

Only compounds detected in one or more samples are included. See the laboratory reports for a complete list of analytes.
 * The TPH as mineral spirits result is the result of an unknown hydrocarbon consisting of a single peak.

Table 3 - Continued
 Summary of Analytical Results of Groundwater Samples
 (Results in Parts Per Billion)
 Page 4

Well No.	Date	TPHms	B	T	E	X	1,1-DCE	1,1-DCA	1,1-DCA	trans-1,2-DCE	Chlorobenz	1,1,1-TCA	TCE	PCE	CB	1,1-DCP	1,1-DCB	TCFM	
MW-8	04-93	-	-	-	-	-	-	3.4	7.4	-	-	-	14	1.8	11	0.6	2.6	-	
	07-93	-	-	-	-	-	-	-	5.0	1.0	-	-	31	-	-	-	-	-	
	10-93	-	-	-	-	-	-	-	5.2	-	-	-	15	-	5.4	-	-	-	
	01-94	* 60	-	-	-	-	-	8.6	11	-	-	2.5	22	2.0	16	-	4.8	-	
	04-94	-	-	-	-	-	-	3.7	7.1	-	-	1.5	18	0.8	-	0.8	-	-	
	07-94	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10-94	-	-	-	-	-	-	5.5	-	-	-	-	23	-	2.4	-	-	-	
	01-95	-	-	-	-	-	-	-	-	-	-	-	2.6	-	1.2	-	-	-	
MW-10	04-93	-	-	-	-	-	-	-	-	-	1.2	-	45	-	-	-	-	-	
	07-93	-	-	-	-	-	2.0	-	-	17	0.5	0.8	54	-	-	-	-	-	
	10-93	-	-	-	-	-	-	-	-	3.0	-	-	42	-	-	-	-	-	
	01-94	-	-	-	-	-	-	-	-	0.4	-	-	67	-	-	-	-	-	
	04-94	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	07-94	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10-94	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	01-95	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MCL	NE	1.0	150	700	1750	6.0	5.0	0.5	10.0	NE	200	5.0	5.0	70	5.0	600	150		

Q
 Semi
 Ann.
 inaccessible

TPHms = total petroleum hydrocarbons as mineral spirits
 B = Benzene
 T = Toluene
 E = Ethylbenzene
 X = Xylenes

DCE = Dichloroethene
 DCA = Dichloroethane
 TCA = Trichloroethane
 TCE = Trichloroethene
 PCE = Tetrachloroethene

CB = Chlorobenzene
 DCP = Dichloropropane
 DCB = Dichlorobenzene
 TCFM = Trichlorofluoromethane
 MCL = Maximum contaminant level for primary drinking water constituents

NE = Not Established
 NS = Not Sampled
 - = Not Detected

NOTES:

Only compounds detected in one or more samples are included. See the laboratory reports for a complete list of analytes.
 * The TPH as mineral spirits result is the result of an unknown hydrocarbon consisting of a single peak.

Table 3 - Continued
 Summary of Analytical Results of Groundwater Samples
 (Results in Parts Per Billion)
 Page 5

Well No.	Date	TPHms	B	T	E	X	1,1-DCE	1,1-DCA	1,1-DCA	trans-1,2-DCE	Chloroform	1,1,1-TCA	TCE	PCE	CB	1,2-DCP	1,2-DCB	TCFM	
MW-11 <i>Ann</i> <i>ok</i>	04-93	-	-	-	-	-	-	-	-	-	-	-	9.1	-	-	-	-	-	
	07-93	-	-	-	-	-	2.0	-	-	3.0	-	2.0	36	-	-	-	-	-	
	10-93	-	-	-	-	-	-	-	-	-	-	-	11	-	-	-	-	-	
	01-94	-	-	-	-	-	-	-	-	-	-	-	2.6	-	-	-	-	-	
	04-94	-	-	-	-	-	-	-	-	-	-	-	3.1	-	-	-	-	-	
	07-94	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10-94	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	01-95	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12 <i>Ann</i> <i>ok</i>	04-93	-	-	-	-	-	-	2.6	-	-	-	-	17	-	-	-	-	-	
	07-93	-	-	-	-	-	-	2.0	2.0	3.0	-	-	30	-	-	-	-	-	
	10-93	-	-	-	-	-	-	-	-	-	-	-	34	-	-	-	-	-	
	01-94	-	-	-	-	-	-	2.3	1.2	-	-	-	11	-	-	-	-	-	
	04-94	-	-	-	-	-	-	1.7	1.9	-	-	-	44	-	-	-	-	-	
	07-94	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10-94	-	-	-	-	-	-	1.6	-	-	-	-	24	-	-	-	-	-	
	01-95	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MCL	NE	1.0	150	700	1750	6.0	5.0	0.5	10.0	NE	200	5.0	5.0	70	5.0	600	150		

TPHms = total petroleum hydrocarbons as mineral spirits
 B = Benzene
 T = Toluene
 E = Ethylbenzene
 X = Xylene

DCE = Dichloroethene
 DCA = Dichloroethane
 TCA = Trichloroethane
 TCE = Trichloroethene
 PCE = Tetrachloroethene

CB = Chlorobenzene
 DCP = Dichloropropane
 DCB = Dichlorobenzene
 TCFM = Trichlorofluoromethane
 MCL = Maximum contaminant level for primary drinking water constituents

NE = Not Established
 NS = Not Sampled
 - = Not Detected

NOTES:
 Only compounds detected in one or more samples are included. See the laboratory reports for a complete list of analytes.
 * The TPH as mineral spirits result is the result of an unknown hydrocarbon consisting of a single peak.

Table 3 - Continued
 Summary of Analytical Results of Groundwater Samples
 (Results in Parts Per Billion)

Page 6

Well No.	Date	TPHms	B	T	E	X	1,1-DCE	1,1-DCA	1,1-DCA	trans-1,2-DCE	Chlorobenz	1,1,1-TCA	TCE	PCE	CB	1,2-DCP	1,2-DCB	TCFM
MW-13	04-93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	07-93	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10-93	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	01-94	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	04-94	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	07-94	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10-94	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	01-95	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MCL	NE	1.0	150	700	1750	6.0	5.0	0.5	10.0	NE	200	5.0	5.0	70	5.0	600	150	

ann

ok

TPHms = total petroleum hydrocarbons as mineral spirits
 B = Benzene
 T = Toluene
 E = Ethylbenzene
 X = Xylenes

DCE = Dichloroethene
 DCA = Dichloroethane
 TCA = Trichloroethane
 TCE = Trichloroethene
 PCE = Tetrachloroethene

CB = Chlorobenzene
 DCP = Dichloropropane
 DCB = Dichlorobenzene
 TCFM = Trichlorofluoromethane
 MCL = Maximum contaminant level for primary drinking water constituents

NE = Not Established
 NS = Not Sampled
 - = Not Detected

NOTES:

Only compounds detected in one or more samples are included. See the laboratory reports for a complete list of analytes.
 * The TPH as mineral spirits result is the result of an unknown hydrocarbon consisting of a single peak.

APPENDIX A

Field Data Sheets

HYDROLOGIC DATA SHEET

PROJECT: SAFETY-KLEEN OAKLAND				PROJECT NO.: 70005-009-07 TASK: 001			
DATE: January 4, 1995		TIME START: 0930		TIME END: 1100			
EVENT: QUARTERLY MONITORING AND SAMPLING				PERSONNEL: Hawkins/Ravelo			
WELL ID	TOC	DTW	DTP	PT	TD	ELEV.	COMMENTS
MW-1	7.99	6.04				1.95	
MW-2	8.20	6.67				1.53	
MW-3	6.66	5.02				1.64	
MW-4	10.32	7.91				2.41	
MW-5	10.28	7.79				2.49	
MW-6	8.97	6.73				2.24	
MW-8	7.80	6.01				1.79	
MW-9	8.21	6.61	6.30	0.31		1.85	Bailed 0.125 gal.
MW-10	10.43	-				-	No Access
MW-11	7.91	5.85				2.06	
MW-12	6.74	5.30				1.44	
MW-13	8.08	6.75				1.33	
RW-1	-	5.83	5.67	0.16		-	Bailed 0.125 gal.
NOTES: NET Purchase Order Number - E10275							

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)

SECOR

WATER SAMPLE FIELD DATA SHEET

PROJECT NO: 70005-009
 PURGED BY: KH/AN
 SAMPLED BY: KH/AN

WELL ID: MW-2
 SAMPLE ID: MW-2
 CLIENT NAME: SIL
 LOCATION: DAVAO

TYPE: Groundwater Surface Water _____ Treatment Effluent _____ Other _____

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

CASING ELEVATION: (feet/MSL): _____	VOLUME IN CASING (gal) <u>3.67</u>
DEPTH TO WATER (feet): <u>12.67</u>	CALCULATED PURGE (gal) <u>11.02</u>
DEPTH OF WELL (feet): <u>29.21</u>	ACTUAL PURGE VOL. (gal) <u>12</u>

DATE PURGED: 1/4/05 Start (2400 Hr) 13:42 End (2400 Hr) 13:57
 DATE SAMPLED: 1/4/05 Start (2400 Hr) 14:05 End (2400 Hr) _____

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

FIELD MEASUREMENTS						
TIME (2400 Hr)	VOLUME (gal)	pH (units)	E.C. (umhos/cm@25°C)	TEMPERATURE (°F)	COLOR (visual)	TURBIDITY (NTU)
<u>13:42</u>	<u>4</u>	<u>8.0</u>	<u>236</u>	<u>66.8</u>	<u>DAV</u>	<u>Silent</u>
<u>13:53</u>	<u>8</u>	<u>7.7</u>	<u>235</u>	<u>64.0</u>	<u>n</u>	<u>n</u>
<u>13:56</u>	<u>12</u>	<u>7.5</u>	<u>240</u>	<u>63.9</u>	<u>n</u>	<u>n</u>
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

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

ODOR: _____

<p style="text-align: center;"><u>PURGING EQUIPMENT</u></p> <p>_____ 2" Bladder Pump _____ Bailer(Teflon®) _____ Centrifugal Pump <input checked="" type="checkbox"/> Bailer (PVC) _____ Submersible Pump _____ Bailer (Stainless Steel) _____ Well Wizard™ _____ Dedicated</p> <p>Other: _____</p>	<p style="text-align: center;"><u>SAMPLING EQUIPMENT</u></p> <p>_____ 2" Bladder Pump _____ Bailer(Teflon®) _____ DDL Sampler <input checked="" type="checkbox"/> Bailer (PVC/disposable) _____ Submersible Pump _____ Bailer (Stainless Steel) _____ Well Wizard™ _____ Dedicated</p> <p>Other: _____</p>
--	---

WELL INTEGRITY: OK LOCK #: NO LOCK

REMARKS: _____

SIGNATURE: AN Page 1 of 1

SECOR

WATER SAMPLE FIELD DATA SHEET

PROJECT NO: 70005-009
 PURGED BY: KHAN
 SAMPLED BY: KHAN

WELL ID: MW-3
 SAMPLE ID: MW-3
 CLIENT NAME: SL
 LOCATION: DAVANO

TYPE: Groundwater Surface Water _____ Treatment Effluent _____ Other _____

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

CASING ELEVATION: (feet/MSL): _____	VOLUME IN CASING (gal) <u>3.45</u>
DEPTH TO WATER (feet): <u>5.02</u>	CALCULATED PURGE (gal) <u>10.35</u>
DEPTH OF WELL (feet): <u>16.20</u>	ACTUAL PURGE VOL. (gal) <u>12</u>

DATE PURGED: 1/4/95 Start (2400 Hr) 13:12 End (2400 Hr.) 13:20
 DATE SAMPLED: 1/4/95 Start (2400 Hr) 13:30 End (2400 Hr.) _____

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

FIELD MEASUREMENTS						
TIME (2400 Hr)	VOLUME (gal)	pH (units)	E.C. (umhos/cm@25°C)	TEMPERATURE (°F)	COLOR (visual)	TURBIDITY (NTU) - VISUAL
<u>13:15</u>	<u>3.5</u>	<u>8.3</u>	<u>307</u>	<u>67.9</u>	<u>Brown</u>	<u>Slight</u>
<u>13:21</u>	<u>7</u>	<u>7.5</u>	<u>239</u>	<u>64.7</u>	<u>h</u>	<u>h</u>
<u>13:23</u>	<u>9</u>	<u>7.4</u>	<u>223</u>	<u>59.9</u>	<u>h</u>	<u>h</u>
<u>13:25</u>	<u>12</u>	<u>7.4</u>	<u>218</u>	<u>59.5</u>	<u>h</u>	<u>h</u>

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

ODOR: _____

Clear
Cloudy
Yellow
Brown

PURGING EQUIPMENT		SAMPLING EQUIPMENT	
<input type="checkbox"/> 2" Bladder Pump	<input type="checkbox"/> Bailer (Teflon®)	<input type="checkbox"/> 2" Bladder Pump	<input type="checkbox"/> Bailer (Teflon®)
<input type="checkbox"/> Centrifugal Pump	<input checked="" type="checkbox"/> Bailer (PVC)	<input type="checkbox"/> DDL Sampler	<input checked="" type="checkbox"/> Bailer (PVC/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"/> Well Wizard™	<input type="checkbox"/> Dedicated	<input type="checkbox"/> Well Wizard™	<input type="checkbox"/> Dedicated
Other: _____		Other: _____	

WELL INTEGRITY: OK LOCK #: _____

REMARKS: _____

SIGNATURE: [Signature] Page 1 of 1

SECOR

WATER SAMPLE FIELD DATA SHEET

PROJECT NO: 70005-009
 PURGED BY: KH/RA
 SAMPLED BY: KH/RA

WELL ID: MW-8
 SAMPLE ID: MW-8
 CLIENT NAME: SK
 LOCATION: ORLANDO

TYPE: Groundwater Surface Water _____ Treatment Effluent _____ Other _____
 CASING DIAMETER (inches): 2 3 _____ 4 _____ 4.5 _____ 6 _____ Other _____

CASING ELEVATION: (feet/MSL): _____	VOLUME IN CASING (gal) <u>3.74</u>
DEPTH TO WATER (feet): <u>6.01</u>	CALCULATED PURGE (gal) <u>11.21</u>
DEPTH OF WELL (feet): <u>28.93</u>	ACTUAL PURGE VOL. (gal) <u>12</u>

DATE PURGED: 1/4/95 Start (2400 Hr) 14:14 End (2400 Hr.) 14:29
 DATE SAMPLED: 1/4/95 Start (2400 Hr) 14:35 End (2400 Hr.) _____

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

FIELD MEASUREMENTS						
TIME (2400 Hr)	VOLUME (gal)	pH (units)	E.C. (umhos/cm@25°C)	TEMPERATURE (°F)	COLOR (visual)	TURBIDITY (NTU) VISUAL
<u>14:21</u>	<u>4</u>	<u>8.1</u>	<u>281</u>	<u>67.6</u>	<u>Brown</u>	<u>Slight</u>
<u>14:23</u>	<u>8</u>	<u>7.7</u>	<u>235</u>	<u>64.3</u>	<u>h</u>	<u>h</u>
<u>14:25</u>	<u>10</u>	<u>7.5</u>	<u>241</u>	<u>62.2</u>	<u>h</u>	<u>h</u>
<u>14:28</u>	<u>12</u>	<u>7.5</u>	<u>254</u>	<u>61.8</u>	<u>h</u>	<u>h</u>
D.O. (ppm): _____		COLOR, COBALT (0-100): _____			Clear Cloudy Yellow Brown	
ODOR: _____						

PURGING EQUIPMENT				SAMPLING EQUIPMENT			
<input type="checkbox"/>	2" Bladder Pump	<input type="checkbox"/>	Bailer (Teflon®)	<input type="checkbox"/>	2" Bladder Pump	<input type="checkbox"/>	Bailer (Teflon®)
<input type="checkbox"/>	Centrifugal Pump	<input checked="" type="checkbox"/>	Bailer (PVC)	<input type="checkbox"/>	DDL Sampler	<input checked="" type="checkbox"/>	Bailer (PVC/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"/>	Well Wizard™	<input type="checkbox"/>	Dedicated	<input type="checkbox"/>	Well Wizard™	<input type="checkbox"/>	Dedicated
Other: _____				Other: _____			

WELL INTEGRITY: OK LOCK #: 3210

REMARKS: _____

SIGNATURE: _____ Page 1 of 1

SECOR

WATER SAMPLE FIELD DATA SHEET

PROJECT NO: 70005-009
 PURGED BY: KH/RA
 SAMPLED BY: KH/RA

WELL ID: MW-4
 SAMPLE ID: MW-4
 CLIENT NAME: SK
 LOCATION: OAKLAND

TYPE: Groundwater Surface Water _____ Treatment Effluent _____ Other _____
 CASING DIAMETER (inches): 2 3 _____ 4 _____ 4.5 _____ 6 _____ Other _____

CASING ELEVATION: (feet/MSL): _____	VOLUME IN CASING (gal.) <u>2.85</u>
DEPTH TO WATER (feet): <u>7.91</u>	CALCULATED PURGE (gal.) <u>8.55</u>
DEPTH OF WELL (feet): <u>25.40</u>	ACTUAL PURGE VOL. (gal.) <u>9</u>

DATE PURGED: 1/4/95 Start (2400 Hr) 11:19 End (2400 Hr.) 11:39
 DATE SAMPLED: 1/4/95 Start (2400 Hr) 11:45 End (2400 Hr.) _____

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

FIELD MEASUREMENTS						
TIME (2400 Hr)	VOLUME (gal)	pH (units)	E.C. (umhos/cm@25°C)	TEMPERATURE (°F)	COLOR (visual)	TURBIDITY NTU VISUAL
<u>11:24</u>	<u>3</u>	<u>7.0</u>	<u>445</u>	<u>61.8</u>	<u>Brown</u>	<u>Slight</u>
<u>11:32</u>	<u>6</u>	<u>6.7</u>	<u>424</u>	<u>57.6</u>	<u>n</u>	<u>n</u>
<u>11:36</u>	<u>9</u>	<u>6.6</u>	<u>423</u>	<u>58.5</u>	<u>n</u>	<u>n</u>
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

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

Clear
Cloudy
Yellow
Brown

ODOR: _____

PURGING EQUIPMENT		SAMPLING EQUIPMENT	
_____ 2" Bladder Pump	_____ Bailer(Teflon®)	_____ 2" Bladder Pump	_____ Bailer(Teflon®)
_____ Centrifugal Pump <input checked="" type="checkbox"/>	_____ Bailer (PVC)	_____ DDL Sampler <input checked="" type="checkbox"/>	_____ Bailer (PVC/disposable)
_____ Submersible Pump	_____ Bailer (Stainless Steel)	_____ Submersible Pump	_____ Bailer (Stainless Steel)
_____ Well Wizard™	_____ Dedicated	_____ Well Wizard™	_____ Dedicated
Other: _____		Other: _____	

WELL INTEGRITY: OK LOCK #: 3210
 REMARKS: _____

SIGNATURE: AM Page 1 of 1

APPENDIX B

Laboratory Reports - Groundwater



NATIONAL
ENVIRONMENTAL
TESTING, INC.

RECEIVED
JAN 17 1995

Santa Rosa Division
435 Tesconi Circle
Santa Rosa, CA 95401
Tel: (707) 526-7200
Fax: (707) 526-9623

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

Date: 01/13/1995
NET Client Acct. No: 62100
NET Pacific Job No: 94.06450
Received: 01/06/1995

Client Reference Information

400 Market St., Oakland

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

Approved by:

Linda DeMartino
Project Coordinator

Jim Hoch
Operations Manager

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

Enclosure(s)



Client Name: Safety-Kleen
Client Acct: 62100
NET Job No: 94.06450

Date: 01/13/1995
ELAP Cert: 1386
Page: 2

- Ref: 400 Market St., Oakland

SAMPLE DESCRIPTION: MW-4
Date Taken: 01/04/1995
Time Taken: 11:45
NET Sample No: 232868

Parameter	Results	Flags	Reporting			Date	Date	Run
			Limit	Units	Method	Extracted	Analyzed	Batch No.
TPH (Gas/BTEX, Liquid)								
METHOD 5030/M8015	--						01/11/1995	2478
DILUTION FACTOR*	1						01/11/1995	2478
as Mineral Spirits	ND**		0.05	mg/L	5030		01/11/1995	2478
METHOD 8020 (GC, Liquid)	--						01/11/1995	2478
DILUTION FACTOR*	1						01/11/1995	2478
Benzene	ND		0.5	ug/L	8020		01/11/1995	2478
Toluene	ND		0.5	ug/L	8020		01/11/1995	2478
Ethylbenzene	ND		0.5	ug/L	8020		01/11/1995	2478
Xylenes (Total)	ND		0.5	ug/L	8020		01/11/1995	2478
SURROGATE RESULTS	--						01/11/1995	2478
Bromofluorobenzene (SRR)	102			† Rec.	5030		01/11/1995	2478

** Sample is ND for Mineral Spirits, but has a positive response due to a single peak at a concentration of 0.42 mg/L quantified against the Mineral Spirit standard.

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



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SAMPLE DESCRIPTION: MW-4

Date Taken: 01/04/1995

Time Taken: 11:45

NET Sample No: 232868

Parameter	Results	Flags	Reporting		Method	Date	Date	Run
			Limit	Units		Extracted	Analyzed	Batch No.
METHOD 8010 (GC,Liquid)								
DILUTION FACTOR*	1						01/06/1995	792
Bromodichloromethane	ND		0.4	ug/L	8010		01/06/1995	792
Bromoform	ND		0.4	ug/L	8010		01/06/1995	792
Bromomethane	ND		0.4	ug/L	8010		01/06/1995	792
Carbon tetrachloride	ND		0.4	ug/L	8010		01/06/1995	792
Chlorobenzene	ND		0.4	ug/L	8010		01/06/1995	792
Chloroethane	ND		0.4	ug/L	8010		01/06/1995	792
2-Chloroethylvinyl ether	ND		1.0	ug/L	8010		01/06/1995	792
Chloroform	ND		0.4	ug/L	8010		01/06/1995	792
Chloromethane	ND		0.4	ug/L	8010		01/06/1995	792
Dibromochloromethane	ND		0.4	ug/L	8010		01/06/1995	792
1,2-Dichlorobenzene	ND		0.4	ug/L	8010		01/06/1995	792
1,3-Dichlorobenzene	ND		0.4	ug/L	8010		01/06/1995	792
1,4-Dichlorobenzene	ND		0.4	ug/L	8010		01/06/1995	792
Dichlorodifluoromethane	ND		0.4	ug/L	8010		01/06/1995	792
1,1-Dichloroethane	ND		0.4	ug/L	8010		01/06/1995	792
1,2-Dichloroethane	ND		0.4	ug/L	8010		01/06/1995	792
1,1-Dichloroethene	0.7		0.4	ug/L	8010		01/06/1995	792
trans-1,2-Dichloroethene	1.4		0.4	ug/L	8010		01/06/1995	792
1,2-Dichloropropane	ND		0.4	ug/L	8010		01/06/1995	792
cis-1,3-Dichloropropene	ND		0.4	ug/L	8010		01/06/1995	792
trans-1,3-Dichloropropene	ND		0.4	ug/L	8010		01/06/1995	792
Methylene chloride	ND		10	ug/L	8010		01/06/1995	792
1,1,2,2-Tetrachloroethane	ND		0.4	ug/L	8010		01/06/1995	792
Tetrachloroethene	ND		0.4	ug/L	8010		01/06/1995	792
1,1,1-Trichloroethane	ND		0.4	ug/L	8010		01/06/1995	792
1,1,2-Trichloroethane	ND		1	ug/L	8010		01/06/1995	792
Trichloroethene	700	FD	0.4	ug/L	8010		01/06/1995	792
Trichlorofluoromethane	ND		0.4	ug/L	8010		01/06/1995	792
Vinyl chloride	ND		0.4	ug/L	8010		01/06/1995	792
SURROGATE RESULTS								
1,4-Difluorobenzene (SURR)	84				‡ Rec.		01/06/1995	792
Bromochloromethane (SURR)	88				‡ Rec.		01/06/1995	792

FD : Compound quantitated at a 20X dilution factor.

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



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SAMPLE DESCRIPTION: MW-8
 Date Taken: 01/04/1995
 Time Taken: 14:35
 NET Sample No: 232869

Parameter	Results	Flags	Reporting		Method	Date	Date	Run
			Limit	Units		Extracted	Analyzed	Batch
TPH (Gas/BTXE,Liquid)								
METHOD 5030/M8015	--						01/11/1995	2478
DILUTION FACTOR*	1						01/11/1995	2478
as Mineral Spirits	ND		0.05	mg/L	5030		01/11/1995	2478
METHOD 8020 (GC,Liquid)	--						01/11/1995	2478
DILUTION FACTOR*	1						01/11/1995	2478
Benzene	ND		0.5	ug/L	8020		01/11/1995	2478
Toluene	ND		0.5	ug/L	8020		01/11/1995	2478
Ethylbenzene	ND		0.5	ug/L	8020		01/11/1995	2478
Xylenes (Total)	ND		0.5	ug/L	8020		01/11/1995	2478
SURROGATE RESULTS	--						01/11/1995	2478
Bromofluorobenzene (SURR)	105			µ Rec.	5030		01/11/1995	2478

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



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SAMPLE DESCRIPTION: MW-8
Date Taken: 01/04/1995
Time Taken: 14:35
NET Sample No: 232869

Parameter	Results	Flags	Reporting		Method	Date	Date	Run
			Limit	Units		Extracted	Analyzed	Batch No.
METHOD 8010 (GC,Liquid)								
DILUTION FACTOR*	1						01/06/1995	792
Bromodichloromethane	ND		0.4	ug/L	8010		01/06/1995	792
Bromoform	ND		0.4	ug/L	8010		01/06/1995	792
Bromomethane	ND		0.4	ug/L	8010		01/06/1995	792
Carbon tetrachloride	ND		0.4	ug/L	8010		01/06/1995	792
Chlorobenzene	1.2		0.4	ug/L	8010		01/06/1995	792
Chloroethane	ND		0.4	ug/L	8010		01/06/1995	792
2-Chloroethylvinyl ether	ND		1.0	ug/L	8010		01/06/1995	792
Chloroform	ND		0.4	ug/L	8010		01/06/1995	792
Chloromethane	ND		0.4	ug/L	8010		01/06/1995	792
Dibromochloromethane	ND		0.4	ug/L	8010		01/06/1995	792
1,2-Dichlorobenzene	ND		0.4	ug/L	8010		01/06/1995	792
1,3-Dichlorobenzene	ND		0.4	ug/L	8010		01/06/1995	792
1,4-Dichlorobenzene	ND		0.4	ug/L	8010		01/06/1995	792
Dichlorodifluoromethane	ND		0.4	ug/L	8010		01/06/1995	792
1,1-Dichloroethane	ND		0.4	ug/L	8010		01/06/1995	792
1,2-Dichloroethane	ND		0.4	ug/L	8010		01/06/1995	792
1,1-Dichloroethene	ND		0.4	ug/L	8010		01/06/1995	792
trans-1,2-Dichloroethene	ND		0.4	ug/L	8010		01/06/1995	792
1,2-Dichloropropane	ND		0.4	ug/L	8010		01/06/1995	792
cis-1,3-Dichloropropene	ND		0.4	ug/L	8010		01/06/1995	792
trans-1,3-Dichloropropene	ND		0.4	ug/L	8010		01/06/1995	792
Methylene chloride	ND		10	ug/L	8010		01/06/1995	792
1,1,2,2-Tetrachloroethane	ND		0.4	ug/L	8010		01/06/1995	792
Tetrachloroethene	ND		0.4	ug/L	8010		01/06/1995	792
1,1,1-Trichloroethane	ND		0.4	ug/L	8010		01/06/1995	792
1,1,2-Trichloroethane	ND		1	ug/L	8010		01/06/1995	792
Trichloroethene	2.6		0.4	ug/L	8010		01/06/1995	792
Trichlorofluoromethane	ND		0.4	ug/L	8010		01/06/1995	792
Vinyl chloride	ND		0.4	ug/L	8010		01/06/1995	792
SURROGATE RESULTS	--						01/06/1995	792
1,4-Difluorobenzene (SURR)	81				% Rec.		01/06/1995	792
Bromochloromethane (SURR)	83				% Rec.		01/06/1995	792

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



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SAMPLE DESCRIPTION: MW-2
Date Taken: 01/04/1995
Time Taken: 14:05
NET Sample No: 232870

Parameter	Results	Flags	Reporting			Date	Date	Run
			Limit	Units	Method	Extracted	Analyzed	Batch No.
TPH (Gas/BTXE, Liquid)								
METHOD 5030/M8015	--						01/11/1995	2478
DILUTION FACTOR*	1						01/11/1995	2478
as Mineral Spirits	ND		0.05	mg/L	5030		01/11/1995	2478
METHOD 8020 (GC, Liquid)	--						01/11/1995	2478
DILUTION FACTOR*	1						01/11/1995	2478
Benzene	ND		0.5	ug/L	8020		01/11/1995	2478
Toluene	ND		0.5	ug/L	8020		01/11/1995	2478
Ethylbenzene	ND		0.5	ug/L	8020		01/11/1995	2478
Xylenes (Total)	ND		0.5	ug/L	8020		01/11/1995	2478
SURROGATE RESULTS	--							
Bromofluorobenzene (SURR)	98			‡ Rec.	5030		01/11/1995	2478

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



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Ref: 400 Market St., Oakland

SAMPLE DESCRIPTION: MW-2

Date Taken: 01/04/1995

Time Taken: 14:05

NET Sample No: 232870

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
METHOD 8010 (GC,Liquid)								
DILUTION FACTOR*	1						01/06/1995	792
Bromodichloromethane	ND		0.4	ug/L	8010		01/06/1995	792
Bromoform	ND		0.4	ug/L	8010		01/06/1995	792
Bromomethane	ND		0.4	ug/L	8010		01/06/1995	792
Carbon tetrachloride	ND		0.4	ug/L	8010		01/06/1995	792
Chlorobenzene	ND		0.4	ug/L	8010		01/06/1995	792
Chloroethane	ND		0.4	ug/L	8010		01/06/1995	792
2-Chloroethylvinyl ether	ND		1.0	ug/L	8010		01/06/1995	792
Chloroform	ND		0.4	ug/L	8010		01/06/1995	792
Chloromethane	ND		0.4	ug/L	8010		01/06/1995	792
Dibromochloromethane	ND		0.4	ug/L	8010		01/06/1995	792
1,2-Dichlorobenzene	ND		0.4	ug/L	8010		01/06/1995	792
1,3-Dichlorobenzene	ND		0.4	ug/L	8010		01/06/1995	792
1,4-Dichlorobenzene	ND		0.4	ug/L	8010		01/06/1995	792
Dichlorodifluoromethane	ND		0.4	ug/L	8010		01/06/1995	792
1,1-Dichloroethane	ND		0.4	ug/L	8010		01/06/1995	792
1,2-Dichloroethane	ND		0.4	ug/L	8010		01/06/1995	792
1,1-Dichloroethene	ND		0.4	ug/L	8010		01/06/1995	792
trans-1,2-Dichloroethene	ND		0.4	ug/L	8010		01/06/1995	792
1,2-Dichloropropane	ND		0.4	ug/L	8010		01/06/1995	792
cis-1,3-Dichloropropene	ND		0.4	ug/L	8010		01/06/1995	792
trans-1,3-Dichloropropene	ND		0.4	ug/L	8010		01/06/1995	792
Methylene chloride	ND		10	ug/L	8010		01/06/1995	792
1,1,2,2-Tetrachloroethane	ND		0.4	ug/L	8010		01/06/1995	792
Tetrachloroethene	ND		0.4	ug/L	8010		01/06/1995	792
1,1,1-Trichloroethane	ND		0.4	ug/L	8010		01/06/1995	792
1,1,2-Trichloroethane	ND		1	ug/L	8010		01/06/1995	792
Trichloroethene	ND		0.4	ug/L	8010		01/06/1995	792
Trichlorofluoromethane	ND		0.4	ug/L	8010		01/06/1995	792
Vinyl chloride	ND		0.4	ug/L	8010		01/06/1995	792
SURROGATE RESULTS	--						01/06/1995	792
1,4-Difluorobenzene (SURR)	82				† Rec.		01/06/1995	792
Bromochloromethane (SURR)	91				† Rec.		01/06/1995	792

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



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SAMPLE DESCRIPTION: MW-3
Date Taken: 01/04/1995
Time Taken: 13:30
NET Sample No: 232871

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
TPH (Gas/BTEX, Liquid)								
METHOD 5030/M8015	--						01/11/1995	2478
DILUTION FACTOR*	1						01/11/1995	2478
as Mineral Spirits	ND		0.05	mg/L	5030		01/11/1995	2478
METHOD 8020 (GC, Liquid)	--						01/11/1995	2478
DILUTION FACTOR*	1						01/11/1995	2478
Benzene	ND		0.5	ug/L	8020		01/11/1995	2478
Toluene	ND		0.5	ug/L	8020		01/11/1995	2478
Ethylbenzene	ND		0.5	ug/L	8020		01/11/1995	2478
Xylenes (Total)	ND		0.5	ug/L	8020		01/11/1995	2478
SURROGATE RESULTS	--						01/11/1995	2478
Bromofluorobenzene (SURR)	100			% Rec.	5030		01/11/1995	2478

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



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SAMPLE DESCRIPTION: MW-3
 Date Taken: 01/04/1995
 Time Taken: 13:30
 NET Sample No: 232871

Parameter	Results	Flags	Reporting		Method	Date	Date	Run
			Limit	Units		Extracted	Analyzed	Batch No.
METHOD 8010 (GC,Liquid)								
DILUTION FACTOR*	1						01/06/1995	792
Bromodichloromethane	ND		0.4	ug/L	8010		01/06/1995	792
Bromoform	ND		0.4	ug/L	8010		01/06/1995	792
Bromomethane	ND		0.4	ug/L	8010		01/06/1995	792
Carbon tetrachloride	ND		0.4	ug/L	8010		01/06/1995	792
Chlorobenzene	ND		0.4	ug/L	8010		01/06/1995	792
Chloroethane	ND		0.4	ug/L	8010		01/06/1995	792
2-Chloroethylvinyl ether	ND		1.0	ug/L	8010		01/06/1995	792
Chloroform	ND		0.4	ug/L	8010		01/06/1995	792
Chloromethane	ND		0.4	ug/L	8010		01/06/1995	792
Dibromochloromethane	ND		0.4	ug/L	8010		01/06/1995	792
1,2-Dichlorobenzene	ND		0.4	ug/L	8010		01/06/1995	792
1,3-Dichlorobenzene	ND		0.4	ug/L	8010		01/06/1995	792
1,4-Dichlorobenzene	ND		0.4	ug/L	8010		01/06/1995	792
Dichlorodifluoromethane	ND		0.4	ug/L	8010		01/06/1995	792
1,1-Dichloroethane	ND		0.4	ug/L	8010		01/06/1995	792
1,2-Dichloroethane	ND		0.4	ug/L	8010		01/06/1995	792
1,1-Dichloroethene	ND		0.4	ug/L	8010		01/06/1995	792
trans-1,2-Dichloroethene	ND		0.4	ug/L	8010		01/06/1995	792
1,2-Dichloropropane	ND		0.4	ug/L	8010		01/06/1995	792
cis-1,3-Dichloropropene	ND		0.4	ug/L	8010		01/06/1995	792
trans-1,3-Dichloropropene	ND		0.4	ug/L	8010		01/06/1995	792
Methylene chloride	ND		10	ug/L	8010		01/06/1995	792
1,1,2,2-Tetrachloroethane	ND		0.4	ug/L	8010		01/06/1995	792
Tetrachloroethene	ND		0.4	ug/L	8010		01/06/1995	792
1,1,1-Trichloroethane	ND		0.4	ug/L	8010		01/06/1995	792
1,1,2-Trichloroethane	ND		1	ug/L	8010		01/06/1995	792
Trichloroethene	ND		0.4	ug/L	8010		01/06/1995	792
Trichlorofluoromethane	ND		0.4	ug/L	8010		01/06/1995	792
Vinyl chloride	ND		0.4	ug/L	8010		01/06/1995	792
SURROGATE RESULTS	--						01/06/1995	792
1,4-Difluorobenzene (SURR)	84				‡ Rec.		01/06/1995	792
Bromochloromethane (SURR)	90				‡ Rec.		01/06/1995	792

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



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CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

Parameter	CCV Standard % Recovery	CCV Standard Amount Found	CCV Standard Amount Expected	Units	Date Analyzed	Analyst Initials	Run Batch Number
TPH (Gas/BTEXE,Liquid)							
Benzene	98.8	4.94	5.00	ug/L	01/11/1995	dfw	2478
Toluene	108.6	5.43	5.00	ug/L	01/11/1995	dfw	2478
Ethylbenzene	109.6	5.48	5.00	ug/L	01/11/1995	dfw	2478
Xylenes (Total)	107.3	16.1	15.0	ug/L	01/11/1995	dfw	2478
Bromofluorobenzene (SURR)	107.0	107	100	% Rec.	01/11/1995	dfw	2478

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



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 Client Acct: 62100
 NET Job No: 94.06450

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CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

Parameter	CCV	CCV	CCV	Units	Date Analyzed	Analyst Initials	Run Batch Number
	Standard Amount	Standard Amount	Standard Amount				
METHOD 8010 (GC, Liquid)	% Recovery	Found	Expected				
Bromodichloromethane	97.0	19.4	20.0	ug/L	01/06/1995	ltg	792
Bromoform	93.5	18.7	20.0	ug/L	01/06/1995	ltg	792
Bromomethane	100.0	20.0	20.0	ug/L	01/06/1995	ltg	792
Carbon tetrachloride	95.5	19.1	20.0	ug/L	01/06/1995	ltg	792
Chlorobenzene	97.5	19.5	20.0	ug/L	01/06/1995	ltg	792
Chloroethane	88.0	17.6	20.0	ug/L	01/06/1995	ltg	792
2-Chloroethylvinyl ether	71.0	14.2	20.0	ug/L	01/06/1995	ltg	792
Chloroform	102.5	20.5	20.0	ug/L	01/06/1995	ltg	792
Chloromethane	87.5	17.5	20.0	ug/L	01/06/1995	ltg	792
Dibromochloromethane	92.0	18.4	20.0	ug/L	01/06/1995	ltg	792
1,2-Dichlorobenzene	92.0	18.4	20.0	ug/L	01/06/1995	ltg	792
1,3-Dichlorobenzene	85.5	17.1	20.0	ug/L	01/06/1995	ltg	792
1,4-Dichlorobenzene	91.0	18.2	20.0	ug/L	01/06/1995	ltg	792
Dichlorodifluoromethane	88.5	17.7	20.0	ug/L	01/06/1995	ltg	792
1,1-Dichloroethane	101.5	20.3	20.0	ug/L	01/06/1995	ltg	792
1,2-Dichloroethane	92.5	18.5	20.0	ug/L	01/06/1995	ltg	792
1,1-Dichloroethene	108.0	21.6	20.0	ug/L	01/06/1995	ltg	792
trans-1,2-Dichloroethene	85.0	17.0	20.0	ug/L	01/06/1995	ltg	792
1,2-Dichloropropane	90.0	18.0	20.0	ug/L	01/06/1995	ltg	792
cis-1,3-Dichloropropene	81.0	16.2	20.0	ug/L	01/06/1995	ltg	792
trans-1,3-Dichloropropene	92.0	18.4	20.0	ug/L	01/06/1995	ltg	792
Methylene chloride	95.0	19.0	20.0	ug/L	01/06/1995	ltg	792
1,1,2,2-Tetrachloroethane	94.5	18.9	20.0	ug/L	01/06/1995	ltg	792
Tetrachloroethene	94.5	18.9	20.0	ug/L	01/06/1995	ltg	792
1,1,1-Trichloroethane	94.5	18.9	20.0	ug/L	01/06/1995	ltg	792
1,1,2-Trichloroethane	92.0	18.4	20.0	ug/L	01/06/1995	ltg	792
Trichloroethene	95.5	19.1	20.0	ug/L	01/06/1995	ltg	792
Trichlorofluoromethane	99.5	19.9	20.0	ug/L	01/06/1995	ltg	792
Vinyl chloride	88.5	17.7	20.0	ug/L	01/06/1995	ltg	792
1,4-Difluorobenzene (SURR)	83.0	83	100	% Rec.	01/06/1995	ltg	792
Bromochloromethane (SURR)	94.0	94	100	% Rec.	01/06/1995	ltg	792

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Name: Safety-Kleen
Client Acct: 62100
NET Job No: 94.06450

Date: 01/13/1995
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Ref: 400 Market St., Oakland

METHOD BLANK REPORT

Parameter	Method	Reporting		Date	Analyst	Run
	Blank	Amount	Limit	Analyzed	Initials	Batch
	Found		Units			Number
TPH (Gas/BTXE,Liquid)						
as Mineral Spirits	ND	0.05	mg/L	01/11/1995	dfw	2478
Benzene	ND	0.5	ug/L	01/11/1995	dfw	2478
Toluene	ND	0.5	ug/L	01/11/1995	dfw	2478
Ethylbenzene	ND	0.5	ug/L	01/11/1995	dfw	2478
Xylenes (Total)	ND	0.5	ug/L	01/11/1995	dfw	2478
Bromofluorobenzene (SURRE)	100		* Rec.	01/11/1995	dfw	2478

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Ref: 400 Market St., Oakland

METHOD BLANK REPORT

Parameter	Method	Reporting	Units	Date	Analyst	Run
	Blank			Amount	Analyzed	Initials
	Found	Limit				Number
METHOD 8010 (GC,Liquid)						
Bromodichloromethane	ND	0.4	ug/L	01/06/1995	ltg	792
Bromoform	ND	0.4	ug/L	01/06/1995	ltg	792
Bromomethane	ND	0.4	ug/L	01/06/1995	ltg	792
Carbon tetrachloride	ND	0.4	ug/L	01/06/1995	ltg	792
Chlorobenzene	ND	0.4	ug/L	01/06/1995	ltg	792
Chloroethane	ND	0.4	ug/L	01/06/1995	ltg	792
2-Chloroethylvinyl ether	ND	1.0	ug/L	01/06/1995	ltg	792
Chloroform	ND	0.4	ug/L	01/06/1995	ltg	792
Chloromethane	ND	0.4	ug/L	01/06/1995	ltg	792
Dibromochloromethane	ND	0.4	ug/L	01/06/1995	ltg	792
1,2-Dichlorobenzene	ND	0.4	ug/L	01/06/1995	ltg	792
1,3-Dichlorobenzene	ND	0.4	ug/L	01/06/1995	ltg	792
1,4-Dichlorobenzene	ND	0.4	ug/L	01/06/1995	ltg	792
Dichlorodifluoromethane	ND	0.4	ug/L	01/06/1995	ltg	792
1,1-Dichloroethane	ND	0.4	ug/L	01/06/1995	ltg	792
1,2-Dichloroethane	ND	0.4	ug/L	01/06/1995	ltg	792
1,1-Dichloroethene	ND	0.4	ug/L	01/06/1995	ltg	792
trans-1,2-Dichloroethene	ND	0.4	ug/L	01/06/1995	ltg	792
1,2-Dichloropropane	ND	0.4	ug/L	01/06/1995	ltg	792
cis-1,3-Dichloropropene	ND	0.4	ug/L	01/06/1995	ltg	792
trans-1,3-Dichloropropene	ND	0.4	ug/L	01/06/1995	ltg	792
Methylene chloride	ND	10	ug/L	01/06/1995	ltg	792
1,1,2,2-Tetrachloroethane	ND	0.4	ug/L	01/06/1995	ltg	792
Tetrachloroethene	ND	0.4	ug/L	01/06/1995	ltg	792
1,1,1-Trichloroethane	ND	0.4	ug/L	01/06/1995	ltg	792
1,1,2-Trichloroethane	ND	0.4	ug/L	01/06/1995	ltg	792
Trichloroethene	ND	0.4	ug/L	01/06/1995	ltg	792
Trichlorofluoromethane	ND	0.4	ug/L	01/06/1995	ltg	792
Vinyl chloride	ND	0.4	ug/L	01/06/1995	ltg	792
1,4-Difluorobenzene (SURR)	89		‡ Rec.	01/06/1995	ltg	792
Bromochloromethane (SURR)	90		‡ Rec.	01/06/1995	ltg	792

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MATRIX SPIKE / MATRIX SPIKE DUPLICATE

Parameter	Matrix Spike		RPD	Spike Amount	Sample Conc.	Matrix Spike		Units	Date Analyzed	Run Batch	Sample Spiked
	Matrix Spike % Rec.	Dup % Rec.				Matrix Spike Conc.	Dup. Conc.				
TPH (Gas/BTXE, Liquid)											232969
Benzene	89.8	76.4	16.1	22.5	ND	20.2	17.2	ug/L	01/11/1995	2478	232969
Toluene	88.2	78.3	11.9	91.6	ND	80.8	71.7	ug/L	01/11/1995	2478	232969

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Client Name: Safety-Kleen
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MATRIX SPIKE / MATRIX SPIKE DUPLICATE

Parameter	Matrix Spike		RPD	Spike Amount	Sample Conc.	Matrix Spike Dup.		Units	Date Analyzed	Run Batch	Sample Spiked
	% Rec.	% Rec.				Conc.	Conc.				
METHOD 8010 (GC,Liquid)											232808
Chlorobenzene	99.5	106.5	6.7	20.0	ND	19.9	21.3	ug/L	01/06/1995	792	232808
1,1-Dichloroethene	115.5	117.0	1.3	20.0	ND	23.1	23.4	ug/L	01/06/1995	792	232808
Trichloroethene	103.0	105.5	2.4	20.0	ND	20.6	21.1	ug/L	01/06/1995	792	232808

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KEY TO ABBREVIATIONS and METHOD REFERENCES

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

Method References

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

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

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

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



NATIONAL ENVIRONMENTAL TESTING, INC.

SAFETY-KLEEN CHAIN OF CUSTODY

4820

Safety-Kleen National Account No. 2222
All information must be filled in completely.

Safety-Kleen Project Manager ANNE LUNT
Safety-Kleen PM Phone No. (310) 546-2082
Safety-Kleen PM FAX No. (310) 546-5852
Safety-Kleen Project Number _____
Safety-Kleen Site Address 400 MARKET ST. - OAKLAND, CA.

Consultant Name GREG HOLMAN
Consultant Company Name SECON
Consultant Address 1390 WILLOW PASS RD., STE 300 CONCORD, CA. - 94520
Consultant Fax No. (510) 686-3099
Consultant Phone No. (510) 686-9780

Safety-Kleen Analytical Purchase Order No: E10275
NET QUOTE NO. _____

Invoice to: SAFETY-KLEEN Report to: Fax a copy to the Safety-Kleen Project Manager along with a copy of the COC. Send final report to the Consultant with a copy of the COC.

Sampled by							ANALYSES										COMMENTS				
K. HAWKINS / R. PAVAO Print Name							[Signature]														
[Signature]							[Signature]														
DATE	TIME	SAMPLE ID/DESCRIPTION	GRAB	COMP	# & type of containers	MATRIX	Pres Y/N	TAP AS INDICATED SPLITS BTEX		EPA METHOD 8010											
1/4/95	11:45	MW-4	X		6 VOAS	WATER	Y	X	X												
1/4/95	14:35	MW-8	X		6 VOAS	WATER	Y	X	X												
1/4/95	14:05	MW-2	X		6 VOAS	WATER	Y	X	X												
1/4/95	13:30	MW-3	X		6 VOAS	WATER	Y	X	X												
Condition of sample: Bottles Intact? Yes / No Field Filtered? Yes / No COC seals Present & intact? Yes / No Volatiles free of Headspace? Yes / No Temperature upon receipt: <u>3.4°C</u> Sample remainder disposal: Return Sample remainder to client via Request NET to Dispose of all sample remainders																					
Relinquished By: [Signature]							Received by: Betty Harvey							Date: 1/5/95				Received for NET by: 1-6-95/07:00			
Method of Shipment																					

