

April 21, 1995

Eisenberg, Olivieri, & Associates Environmental and Public Health Engineering

Mr. Bill Cox 232 E. 14th St. San Leandro, CA 94577

SUBJECT: Second Quarterly Monitoring Report

Dear Mr. Cox:

This letter report summarizes the results of monitoring of wells during the period January through March 1995 (second quarter of monitoring) at the property located at 230 Bay Place, Oakland, California. Monitoring activities during this quarter include measuring depth to groundwater monthly and sampling groundwater for analyses in March. The report was completed according to Task III of the approved *Work Plan for Further Investigation, 230 Bay Place, Oakland, California* (Work Plan), dated March 1994. The Work Plan was approved by the Alameda County Department of Environmental Health, Environmental Protection Division (County) with two exceptions. The County suggested using well TW-2 as an upgradient well, if needed, and the County suggested sampling well TW-6 for groundwater analyses.

Two main tasks were completed for this report; 1) on a monthly basis, wells MW-1, TW-2, TW-6, and TW-7 were checked for free product, then depth to groundwater was measured in them and 2) on March 24, wells MW-1, TW-6, and TW-7 were purged and sampled for groundwater analyses. As subcontractors to EOA, Inc., Subsurface Consultants, Inc. (SCI) performed the field tasks and Curtis and Tompkins Laboratory, a California-Certified Laboratory, performed the groundwater analyses.

<u>Methodology</u>

The January and February groundwater surface contour maps (SCI, January 30, 1995 and SCI, March 1, 1995) are included in this report as Attachments 1 and 2. The field methods used to perform the tasks listed above are described in Attachment 3, "Quarterly Groundwater Monitoring" Report (SCI, April 12, 1995). The depth to groundwater was measured and contoured (see Figures 1-3). For the groundwater surface contour maps, the data points were referenced to an arbitrary datum of 100' for the top of casing (TOC) in MW-1. The wells have not been surveyed to date and this methodology is consistent with that used by PES in a prior report.

In March, wells MW-1, TW-6, and TW-7 were purged and samples were collected for the following analyses: 1) Total Volatile Hydrocarbons as gasoline and Benzene, Toluene, Ethylbenzene, and total Xylenes (TVH/BTEX) (by California DOHS Method and LUFT Manual methodology, and by EPA 5030/8020), 2) 1,1-, and 1,2-dichloroethane (DCA) (by

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Mr. Bill Cox April 21, 1995 Page 2

EPA Method 8010) and 3) soluble lead (by EPA 6010A). Locations of the sampled wells with groundwater analyses results are indicated on Figure 4.

<u>Results</u>

Table 1 summarizes the groundwater elevation data for the December 1994 and January, February, and March 1995 monitoring events. Based on data collected on March 24, 1995, the general direction of groundwater flow is in a southwesterly direction, toward Lake Merritt; this result is similar to previous observations at this site. The groundwater level in March is higher than the December levels.

No free product was observed in any of the wells that were monitored. The results of the groundwater analyses are summarized in Table 2, "Summary of Groundwater Analyses". A copy of the original laboratory analytical report is in Attachment 4. Historical groundwater analyses are summarized in Table 3. The concentrations in groundwater of TVH, benzene, toluene, ethyl benzene, and total xylenes have generally decreased in value. The only concentration that did not decrease is ethyl benzene in well MW-1 which is present at 2,200 micrograms per liter versus 2,000 micrograms per liter in December (*Well Conversion and First Quarterly Monitoring Report*, EOA, January 26, 1995). The concentrations in each well relative to each other are similar to those from the December monitoring event. The concentration of 1,2-DCA in MW-1 is unchanged. For this quarter, an additional analysis for soluble lead was performed. Soluble lead is present in well MW-1 at a concentration of .023 ppm (23 ppb) and was not detected in wells TW-6 and TW-7.

Interpretation

This quarterly sampling report is intended as a data report only. A more complete interpretation is planned for inclusion in the annual report, when the full year of monitoring data is available. However, at the County's request, some limited and preliminary interpretation can be provided regarding the limited data collected to date.

Regarding groundwater flow, the data is appears to confirm that, at least during the wet season (in which most existing elevation measurements have been collected), the gradient across the property is consistently towards the southwest. There is some indication from the most recent quarter's measurements that the flow may shift to a more southerly direction near the Bay St. property boundary (near well TW-7). With the available data, it cannot be determined whether this is actually a change of flow direction, or some localized effect, or even a problem with the construction of wells TW-6 or TW-7).

Regarding analytical results, the highest concentrations of TVH and BTEX were found in well TW-7, which is located adjacent to, and downgradient from, the former underground storage tank location. 1,2-DCA and soluble lead was detected only in well MW-1, which is located next to the former waste oil tank location. The TVH and BTEX are consistent with the confirmed release of unleaded gas from the underground fuel tank which was

Mr. Bill Cox April 21, 1995 Page 3

removed last year. Both dissolved lead and chlorinated solvents are more commonly associated with releases from waste oil tanks than with unleaded gasoline. The detection of soluble lead and 1,2-DCA, and their presence only in MW-1, tend to indicate that their source was more likely the former waste oil tank than the former fuel tank, and that their exent in groundwater is probably relatively limited.

Concentrations of TVH and BTEX have decreased; this apparent decrease in concentration may be due to dilution with increased groundwater flow from infiltration of heavy rainfall this season, or it may represent a combination of degradation and movement during the period since the source was removed.

Please call me or Sherris Ragsdale if you have any questions concerning this report.

Sincerely, EOA, Inc.

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Don Eisenberg, PhD., P.E. President

Attachments

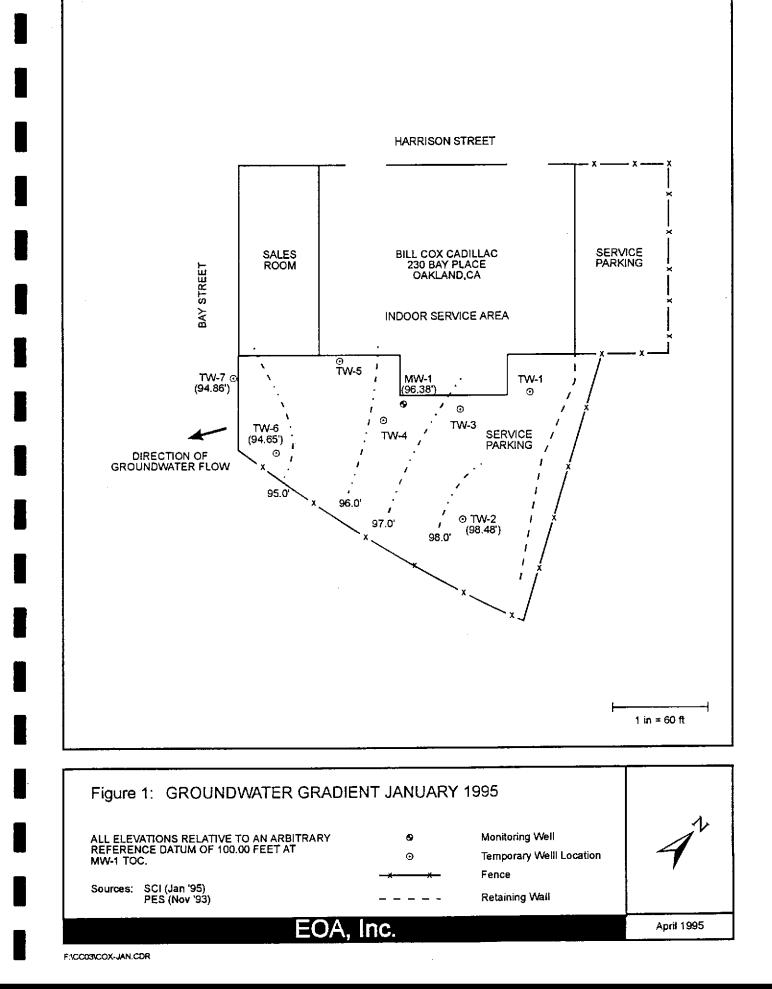
Mr. Bill Cox April 21, 1995 Page 4

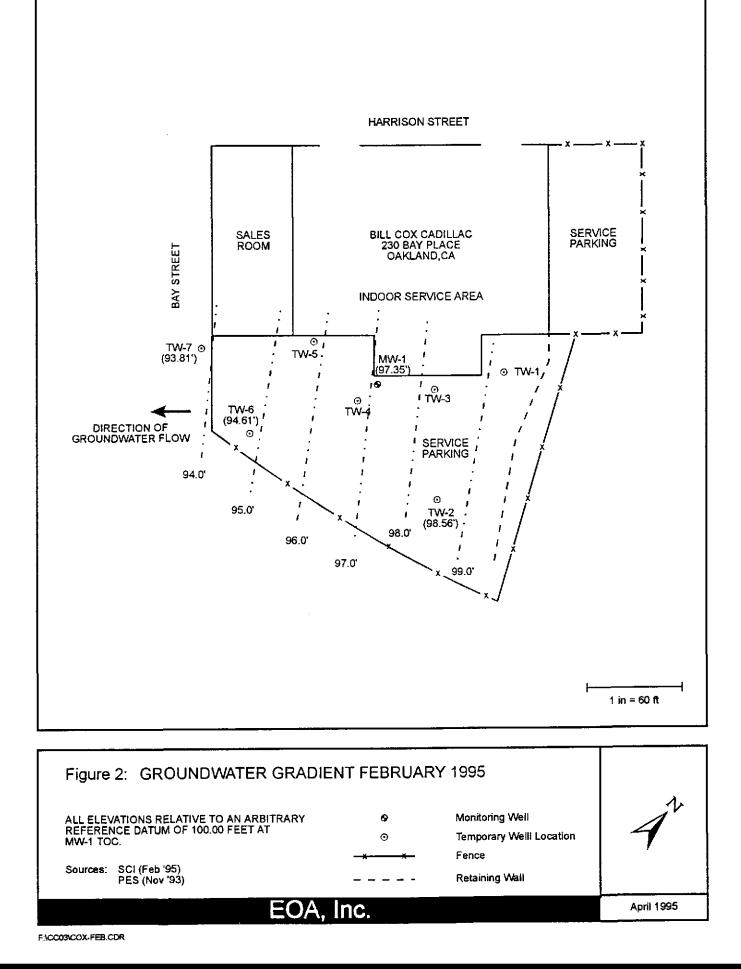
Limitations

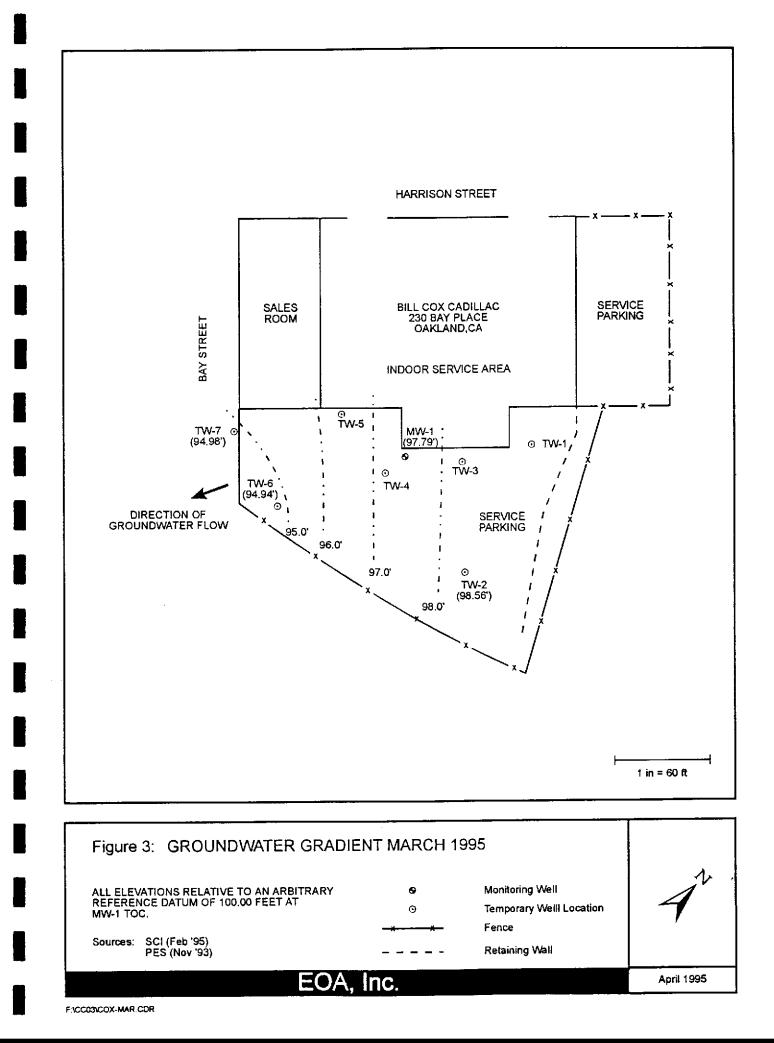
The services performed by EOA, Inc. for this report have been performed using that degree of care and skill ordinarily exercised by reputable professionals practicing under similar circumstances in this or similar localities. No other warranty, expressed or implied, is made by providing these consulting services. This report has been prepared by EOA, Inc. for Mr. Cox for submittal to Alameda County Health Department and other regulatory agencies. This report has not been prepared for use by other parties, and may not contain sufficient information for the purposes of other parties or uses.

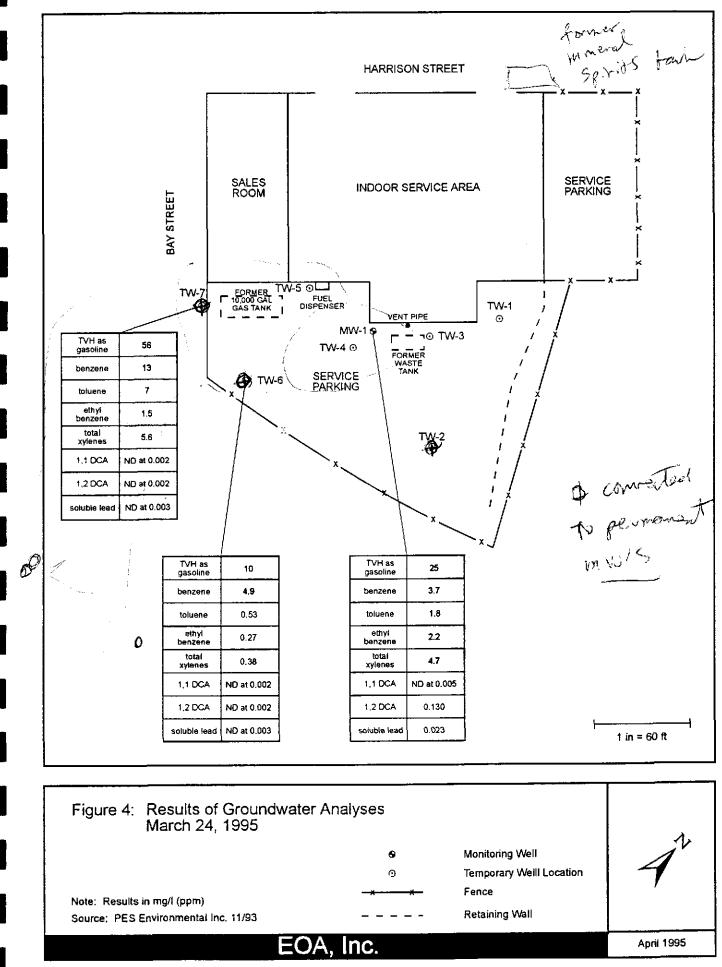
It should be recognized that subsurface conditions may vary from those encountered at the location where samples are collected. The data, interpretation and recommendations of EOA, Inc. are based solely on the information available to EOA, Inc. during the project. EOA, Inc. will be responsible for those data, interpretations and recommendations, but shall not be responsible for the interpretation by others of the information developed.

Because of the limitations inherent in sampling, and the variability of natural materials, determining the absence of any chemical except in the immediate vicinity of a sample can rarely be done with complete certainty. The only way to determine that a site is absolutely free of chemicals of concern is to sample and analyze all the soil and groundwater at the site, which is impractical and costly. Balancing the level of confidence required against the budgetary constraints is difficult. The sampling and analysis in this investigation were approved by the Alameda County Health Department and are consistent with State regulations and guidelines.









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Table 1
Groundwater Elevation Data
December 1994 through March 1995

Well Number	Date	TOC Elevation* (feet)	Depth to Water (feet)	Groundwater Elevation (feet)
TW-2	12/22/94 1/24/95 2/22/95 3/24/95	100.43	2.88 1.95 1.87 1.87	97.55 98.48 98.56 98.56
TW-6	12/22/94 1/24/95 2/22/95 3/24/95	98.75	4.66 4.10 4.14 3.81	94.09 94.65 94.61 94.94
TW-7	12/22/94 1/24/95 2/22/95 3/24/95	97.96	4.50 3.10 4.15 2.98	93.46 94.86 93.81 94.98
MW-1	12/22/94 1/24/95 2/22/95 3/24/95	100.00	2.96 3.62 2.65 2.21	97.04 96.38 97.35 97.79

Depths are measured below Top of Casing (TOC)

* Elevations are referenced to the TOC for MW-1, which was assumed (by PES) to have an elevation of 100.00 feet

Table 2
Summary of Groundwater Analyses
Cox Cadillac
March 24, 1995

Well	TVH as gasoline	benzene	toluene	ethyl benzene	total xylenes	1,1 DCA	1,2 DCA	soluble lead
MW-1	25	3.7	1.8	2.2	4.7	ND at .005	.130	.023
TW-6	10	4.9	0.53	0.27	0.38	ND at .002	ND at .002	ND at .003
TW-7	56	13	7	1.5	5.6	ND at .002	ND at .002	ND at .003

All values in milligrams per liter (ppm).

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Well	Date	TVH as gasoline	benzene	toluene	ethyl benzene	total xylenes	1,1- DCA	1,2-DCA	ethylene dibromide	soluble lead
MW-1	3/3/93 10/13/93 12/22/94 3/24/95	110 74 110 25	8.5 6.1 18 3.7	7.5 4.8 11 1.8	4.4 4 2 2.2	15 11 16 4.7	NA NA <.001 <.005	0.35 0.35 0.13 0.13	NA 0.08 NA NA	NA NA NA .023
TW-1	10/13/93	< 0.05	<.0005	<.0005	<.0005	<.0005	NA	<.0005	<.0005	NA
TW-2	10/13/93	<.05	<.0005	<.0005	<.0005	<.0005	NA	<.0005	<.0005	NA
TW-3	10/13/93	<.05	<.0005	<.0005	<.0005	<.0005	NA	<.0005	<.0005	NA
TW-4	10/13/93	2	.065	.018	.049	.033	NA	<.005	<.005	NA
TW-5	10/13/93	140	20	25	3.8	23	NA	<.01	<.01	NA
TW-6	10/14/93 12/22/94 3/24/95	4.1 24 10	3.8 5 4.9	1.6 2 0.53	0.11 3 0.27	0.54 6 0.38	NA <.001 <.002	<.001 <.001 <.002	<.001 NA NA	NA NA <.003
TW-7	10/14/93 12/22/94 3/24/95	100 210 56	48 49 13	15 33 7	3.4 7 1.5	16 28 5.6	NA <.001 <.002	<.05 <.001 <.002	<.05 NA NA	NA NA <.003

Table 3Summary of Historical Groundwater Analytical ResultsCox Cadillac

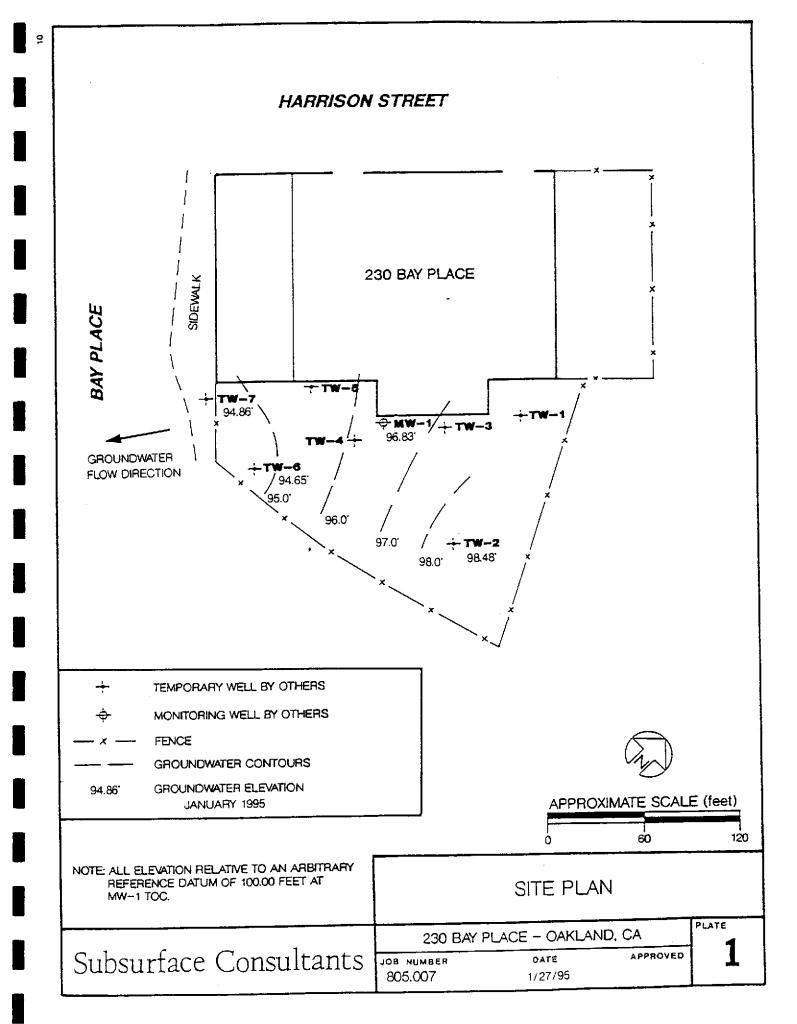
All values in milligrams per liter (ppm). NA - Not Analyzed

LIST OF ATTACHMENTS

Attachment 1.	SCI, Inc. January 1995 Groundwater Elevation Contour Map
Attachment 2.	SCI, Inc. February 1995 Groundwater Elevation Contour Map
Attachment 3.	SCI, Inc. Quarterly Groundwater Monitoring Report (April 12, 1995)
Attachment 4.	Curtis and Tompkins Laboratory Analytical Report

ATTACHMENT 1

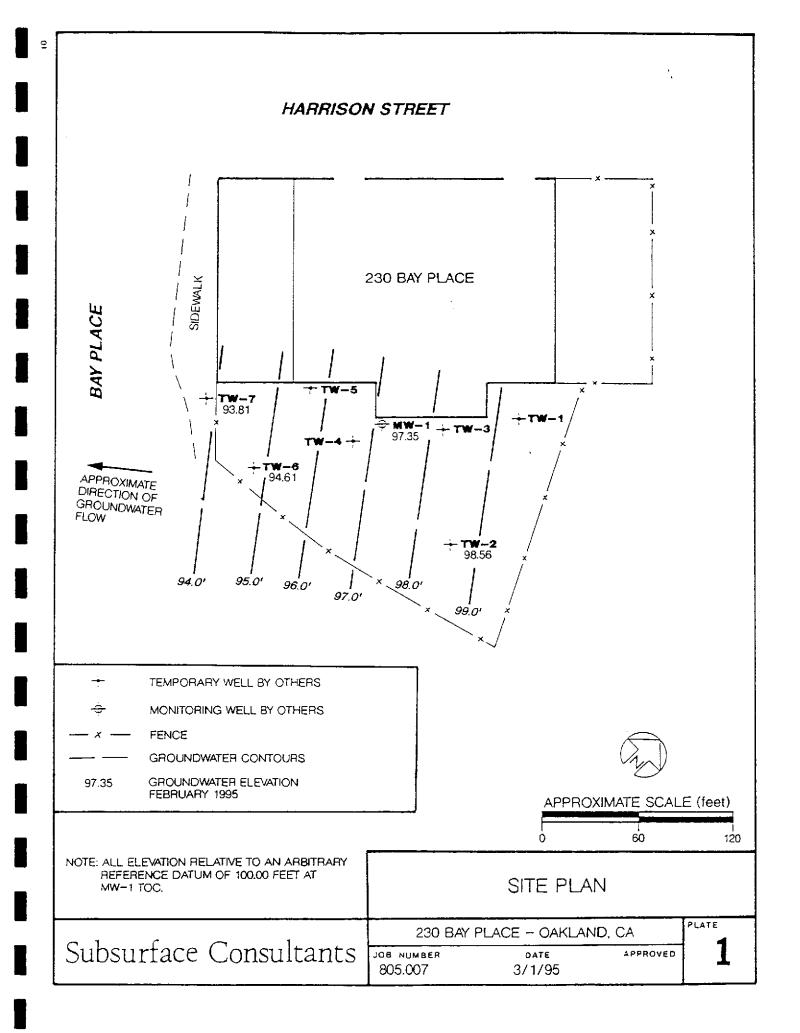
SCI, Inc. JANUARY 1995 GROUNDWATER ELEVATION CONTOUR MAP



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ATTACHMENT 2

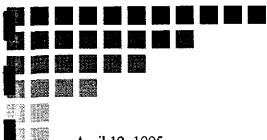
SCI, Inc. FEBRUARY 1995 GROUNDWATER ELEVATION CONTOUR MAP



ATTACHMENT 3

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SCI, Inc. QUARTERLY GROUNDWATER MONITORING REPORT (April 12, 1995)



R. William Rudolph, Jr., PE Thomas E. Cundey, PE Jeriann N. Alexander, PE

April 12, 1995 SCI 805.007

Ms. Sherris Ragsdale Eisenberg, Olivieri, and Associates 1410 Jackson Street Oakland, California 94612

Quarterly Groundwater Monitoring March 1995 Event Cox Cadillac Facility 230 Bay Street Oakland, California

Dear Ms. Ragsdale:

This letter presents the results of the March 1995 groundwater monitoring event for the referenced site. Subsurface Consultants, Inc. (SCI) performed the event at the request of Eisenberg, Olivieri, and Associates (EOA). In general, SCI's services included:

- 1. Checking wells TW-2, TW-6, TW-7 and MW-1 for free floating product,
- 2. Measuring groundwater depths in wells TW-2, TW-6, TW-7 and MW-1, and
- 3. Purging and sampling wells TW-6, TW-7 and MW-1.

Groundwater Sampling

On March 24, 1995, wells TW-2, TW-6, TW-7 and MW-1 were monitored. Initially, the wells were checked for free product and the depth to groundwater using a steel tape and water and petroleum sensitive pastes. No free product was observed. Groundwater level data is summarized in Table 1. Groundwater surface contours are shown on the Site Plan, Plate 1.

Subsurface Consultants, Inc.

171 12th Street • Suite 201 • Oakland, California 94607 • Telephone 510-268-0461 • FAX 510-268-0137

Ms. Sherris Ragsdale Eisenberg, Olivieri, and Associates April 12, 1995 SCI 805.007 Page 2

Prior to sampling, the wells were each purged of at least three well volumes of water by using a new disposable bailer. Once the wells had recovered to at least 80 percent of their initial levels, they were sampled with new disposable bailers. Purge water was placed in 55-gallon drums which were labeled and left on-site for later disposal by others.

Samples were retained in glass containers pre-cleaned by the supplier in accordance with EPA protocol. The containers were placed in an ice filled cooler and remained iced until delivered to EOA. Well sampling forms are attached.

On-going Services

Groundwater levels in wells TW-2, TW-6, TW-7 and MW-1 will be measured on a monthly basis and wells TW-6, TW-7 and MW-1 will be sampled on a quarterly basis through December 1995. As a result, the next monthly event will be performed during the week of April 24, 1995 and the next quarterly event will be performed during the week of June 19, 1995.

If you have any questions, please call.

Yours very truly,

Subsurface Consultants, Inc.

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Jeriann N. Alexander Civil Engineer 40469 (expires 3/31/99)

JNA:RWR:sld

Attachments: Table 1. Groundwater Elevation Data Plate 1. Site Plan Well Sampling Forms

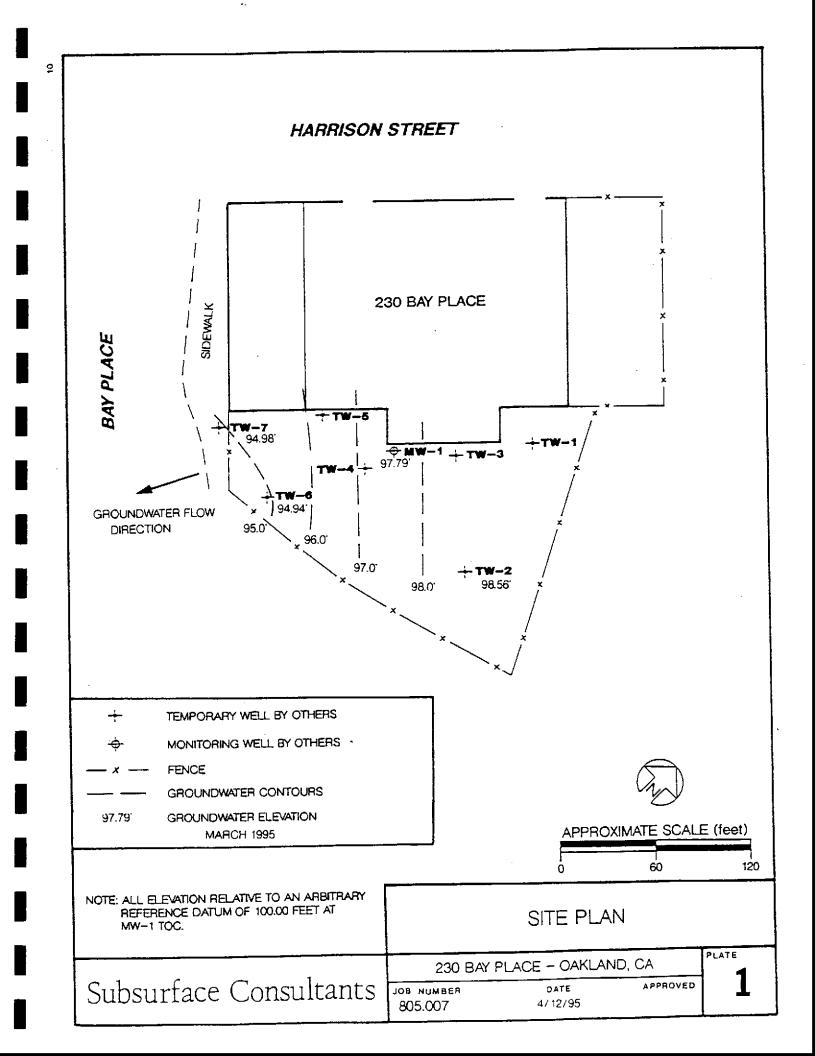
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Table 1. Groundwater Elevation Data

<u>Well Number</u>	<u>Date</u>	TOC Elevation* <u>(feet)</u>	Depth to Water <u>(feet)</u>	Groundwater Elevation <u>(feet)</u>
TW-1	10/13/93	100.91	0.06	100.85
TW-2	10/13/93 12/22/94 3/24/95	100.43	2.32 2.88 1.87	98.11 97.55 98.56
TW-3	10/13/93	100.46	4.43	96.03
TW-4	10/13/93	99.35	2.73	96.62
TW-5	10/13/93	99.40	4.84	94.56
TW-6	10/13/93 12/22/94 3/24/95	98.75	5.40 4.66 3.81	93.35 94.09 94.94
TW-7	10/14/93 12/22/94 3/24/95	97.96	5.40 4.50 2.98	92.56 93.46 94.98
MW-1	10/13/93 12/22/94 3/24/95	100.00	3.55 2.96 2.21	96.45 97.04 97.79

Depths are measured below Top of Casing (TOC)

* Elevations are referenced to the TOC for MW-1, which was assumed by others to have an elevation 100.00 feet



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TW-6	2/22/95	10:35,0	4.4	Sure actery	hed Schilled
<u>TW-7</u>	2/22/45	10:50A	4.15		
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TW-2	3/21/05		1.87	ELEV.	98.56	
TW-6	3/2/105		3.81	98.75	94.94	
TW-7			2.98	97.96	94.98	
MW-1.			2-21	100.00	97.79	
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TOC Elevation:	Weather:	
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Depth to Groundwater When 80% Recovered		feet
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Free Product	build	
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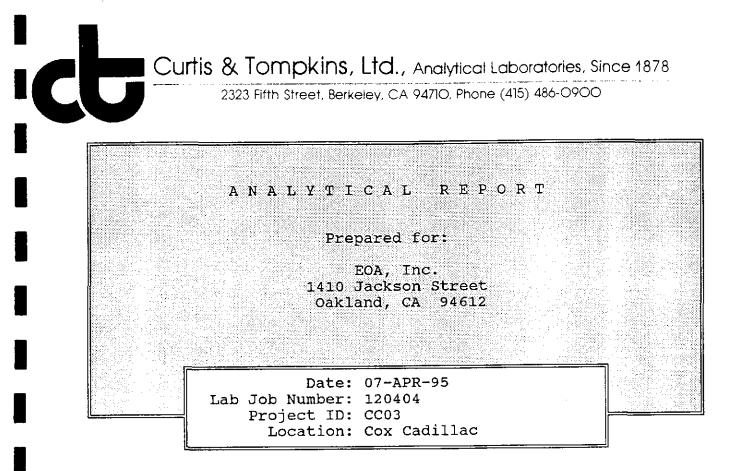
WELL SAMPL	ING FORM		
Project Name: <u>COX CADILLAC</u> Job No.: <u>B05.007</u> Sampled By: <u>COIDEC</u> TOC Elevation:		,	7 inch
Depth to Casing Bottom (below TOC) Depth to Groundwater (below TOC) Feet of Water in Well Depth to Groundwater When 80% Recovered Casing Volume (feet of water x Casing DIA ² x 0.0408) Depth Measurement Method Tape & Paste Free Product MON &	7.02 <u>1.14</u> Electronic So	Inder i Other	feet feet gallons
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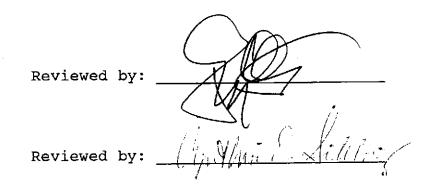
WELL SAMPL	
Project Name: <u>COX CADILLAC</u> Job No.: <u>B05.007</u> Sampled By: <u>CD XII</u>	_ Date:
TOC Elevation:	
Feet of Water in Well	<u>(2. [9]</u> feet
Casing Volume (feet of water x Casing DIA ² x 0.0408) Depth Measurement Method Tape & Paste Free Product $\square DM_{i}$ Purge Method $\square MM_{i}$	/ Electronic Sounder / Other
Gallons Removed pH Temp (°c) (micro	REMENTS nductivity omhos/cm) Salinity S% Coo 450
Total Gallons Purged Depth to Groundwater Before Sampling (below TOC) - Sampling Method	3 gallor binilun
Containers Used 4 1 Po	250 mL pint

ATTACHMENT 4

CURTIS AND TOMPKINS LABORATORY ANALYTICAL REPORT

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This package may be reproduced only in its entirety.

Wilmington

LABORATORY NUMBER: 120404 CLIENT: EOA, INC. PROJECT ID: CC03 LOCATION: COX CADILLAC Curtis & Tompkins, Ltd. DATE SAMPLED: 03/24/95 DATE RECEIVED: 03/24/95 DATE ANALYZED: 03/30/95 DATE REPORTED: 04/07/95 BATCH NO.: 19734

Total Volatile Hydrocarbons with BTXE in Aqueous Solutions TVH by California DOHS Method/LUFT Manual October 1989 BTXE by EPA 5030/8020

LAB ID	SAMPLE ID	TVH AS GASOLINE (ug/L)	BENZENE (ug/L)	TOLUENE	ETHYL BENZENE (ug/L)	TOTAL XYLENES (ug/L)
120404-001 120404-003	MW-1 TW-7	25,000 56,000	3,700 13,000	1,800 7,000	2,200 1,500	4,700 5,600
METHOD BLAN	K N/A	ND(50)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)

ND = Not detected at or above reporting limit; Reporting limit indicated in parentheses.

QA/QC SUMMARY: BS/BSD	
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RPD, %	2
RECOVERY, %	98

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 120404 CLIENT: EOA, INC. PROJECT ID: CC03 LOCATION: COX CADILLAC DATE SAMPLED: 03/24/95 DATE RECEIVED: 03/24/95 DATE ANALYZED: 03/30/95 DATE REPORTED: 04/07/95 BATCH NO.: 19523

Total Volatile Hydrocarbons with BTXE in Aqueous Solutions TVH by California DOHS Method/LUFT Manual October 1989 BTXE by EPA 5030/8020

LAB ID	SAMPLE ID	TVH AS GASOLINE (Ug/L)	BENZENE (ug/L)	TOLUENE	ETHYL BENZENE (ug/L)	TOTAL XYLENES (ug/L)
120404-002	ТW-б	10,000	4,900*	530	270	380
METHOD BLAN	IK N/A	ND(50)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)

* Results obtained from a 1:50 dilution (Batch No: 19734).

ND = Not detected at or above reporting limit; Reporting limit indicated in parentheses.

QA/QC SUMMARY: MS/MSD of 120405-004

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RPD, %	1
RECOVERY, %	112

CLIENT: EOA, Inc. PROJECT ID: CC03 LOCATION: Cox Cadillac MATRIX: Filtrate

Metals Analytical Report

			\mathbf{L}	ead				
Sample ID	Lab ID	Sample Date	Receive Date	Result (ug/L)	Reporting Limit (ug/L)	QC Batch	Method	Analysis Date
							<u>, , , , , , , , , , , , , , , , , , , </u>	
MW-1	120404-001	03/24/95	03/24/95	23	3.0	19826	EPA 6010A	04/05/95
TW-6	120404-002	03/24/95	03/24/95	ND	3.0	19826	EPA 6010A	04/05/95
TW-7	120404-003	03/24/95	03/24/95	ND	3.0	19826	EPA 6010A	04/05/95
L		= Not dei	tected at	or above rep	orting limit			

Curtis & Tompkins, Ltd.



DATE REPORTED: 04/07/95

CLIENT: EOA, Inc. JOB NUMBER: 120404

BATCH QC REPORT BLANK SPIKE / BLANK SPIKE DUPLICATE

[Compound	Spike Amount	BS Result	BSD Result	Units	BS % Recovery	BSD % Recovery	Average Recovery	RPD	QC Batch	Method	Analysis Date
	Lead	500	484	484	ug/L	97	97	97	0	19826	EPA 6010A	04/05/95



DATE REPORTED: 04/07/95

CLIENT: EOA, Inc. JOB NUMBER: 120404

BATCH QC REPORT PREP BLANK

Compound		Result	Reporting Limit	Units	QC Batch	Method	Analysis Date
Lead		ND	3	ug/L	19826	EPA 6010A	04/05/95
	NE) = Not Detec	ted at or abo	ve repo	orting	limit	1

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 120404-001 CLIENT: EOA, INC. PROJECT ID: CC03 LOCATION: COX CADILLAC SAMPLE ID: MW-1 DATE SAMPLED: 03/24/95 DATE RECEIVED: 03/24/95 DATE ANALYZED: 04/03/95 DATE REPORTED: 04/07/95 DATE REVISED: 04/11/95 BATCH NO: 19765

EPA 8010 Purgeable Halocarbons in Water

Compound	Result	Reporting
F	ug/L	Limit
		ug/L
1,1-Dichloroethane	ND	5.0
1,2-Dichloroethane	130	5.0

Surrogate Recovery			
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Bromobenzene	106 %		
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LABORATORY NUMBER: 120404-002 CLIENT: EOA, INC. PROJECT ID: CC03 LOCATION: COX CADILLAC SAMPLE ID: TW-6 DATE SAMPLED: 03/24/95 DATE RECEIVED: 03/24/95 DATE ANALYZED: 04/03/95 DATE REPORTED: 04/07/95 DATE REVISED: 04/11/95 BATCH NO: 19765

EPA 8010 Purgeable Halocarbons in Water

Compound	Result ug/L	Reporting Limit ug/L
l,l-Dichloroethane	ND	2.0
l,2-Dichloroethane	ND	2.0

<u>, , , , , , , , , , , , , , , , , , , </u>				
Bromobenzene 1	08 %			
	##########			
Surrogate Recovery				

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 120404-003 CLIENT: EOA, INC. PROJECT ID: CC03 LOCATION: COX CADILLAC SAMPLE ID: TW-7 DATE SAMPLED: 03/24/95 DATE RECEIVED: 03/24/95 DATE ANALYZED: 04/03/95 DATE REPORTED: 04/07/95 DATE REVISED: 04/11/95 BATCH NO: 19765

EPA 8010 Purgeable Halocarbons in Water

Compound	Result ug/L	Reporting Limit ug/L			
l,l-Dichloroethane	ND	2.0			
l,2-Dichloroethane	ND	2.0			

Surrogate Recovery	
	; <b>;;==*</b> #?==== <u>;</u> ;====;;====;;====;
Bromobenzene	107 %

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 120404-METHOD BLANK CLIENT: EOA, INC. PROJECT ID: CC03 LOCATION: COX CADILLAC SAMPLE ID: MB DATE ANALYZED: 04/03/95 DATE REPORTED: 04/07/95 DATE REVISED: 04/11/95 BATCH NO: 19765

### EPA 8010 Purgeable Halocarbons in Water

Compound	Result	Reporting
-	ug/L	Limit
		ug/L
l,l-Dichloroethane	ND	1.0
1,2-Dichloroethane	ND	1.0

Surrogate Recovery	
Bromobenzene	104 %

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Project No: Project Name: Turnaround Th	Cox cadi	seek		T F	elepi	hone:	<u></u>	52:	-2-	<u>1</u> 2	2	aus & TEX	1-3-MA	NE LEAN						
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