

17 March 2004

Mr. Don Hwang
Hazardous Materials Specialist
Local Oversight Program
Alameda County Health Care Services
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Alameda County
MAR 18 2004
Environmental Health

Subject: First Quarter 2004 Groundwater Monitoring Report
Former Cox Cadillac Fuel Leak Case No. RO0000148
230 Bay Place, Oakland, CA

Dear Mr. Hwang:


ETIC Engineering, Inc., on behalf of The Greater Bay Trust Company, presents the results of the First Quarter 2004 groundwater monitoring activities conducted at the above-referenced subject site on 30 January 2004.

The subject report presents the analytical results and groundwater gauging performed at the subject site. Data tables and site figures are presented including groundwater flow contours. Field data sheets and laboratory data sheets are included as appendices.

Should you have any questions or comments, please contact me at (510) 208-1600 extension 11.

Very truly yours,

ETIC Engineering, Inc.


Katherine A. Brandt
Project Manager

Cc: Lance Shoemaker - Hanson, Bridgett, Marcus, Vlahos, Rudy, LLP
Zachary R. Walton - Paul, Hastings, Janofsky & Walker, LLP

**First Quarter 2004
Groundwater Monitoring Report**

**Former Cox Cadillac Facility
230 Bay Place
Oakland, California**

March 17, 2004

Alameda County

MAR 18 2004

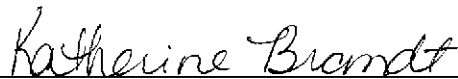
Prepared for:

Environmental Health

Mr. Lance Shoemaker
Hanson, Bridgett, Marcus, Vlahos & Rudy
333 Market Street, Suite 2300
San Francisco, California 94105

Prepared by:

ETIC Engineering, Inc.
1333 Broadway, Suite 1015
Oakland, California 94612



Katherine A. Brandt
Project Manager



Khaled Rahman, R.G., C.Hg
Senior Geologist



**FIRST QUARTER 2004
GROUNDWATER MONITORING REPORT**

**FORMER COX CADILLAC
230 BAY PLACE
OAKLAND, CALIFORNIA**

Prepared For:

Mr. Lance Shoemaker
Hanson, Bridgett, Marcus, Vlahos & Rudy
333 Market Street, Suite 2300
San Francisco, California 94105

Prepared By:

ETIC Engineering, Inc
1333 Broadway, Suite 1015
Oakland, California 94612

March 17, 2004



SITE CONTACTS

Site Name: Former Cox Cadillac

Site Address: 230 Bay Place
Oakland, California

Consultant: ETIC Engineering, Inc.
1333 Broadway, Suite 1015
Oakland, California 94612
(510) 208-1600

ETIC Project Manager: Katherine A. Brandt

Regulatory Oversight: Don Hwang
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577
(510) 567-6746

INTRODUCTION

At the request of the Hanson, Bridgett, Marcus, Vlahos & Rudy, ETIC Engineering, Inc. has prepared this first quarter 2004 groundwater monitoring report for the Former Cox Cadillac Facility. Specifically, this report presents the results for the most recent groundwater monitoring conducted at the site. Groundwater elevation data and groundwater monitoring results for the site are provided in the attached figures and tables. Groundwater monitoring protocols, field data, and analytical results are provided in the attached appendixes.

GENERAL SITE INFORMATION

Site name:	Former Cox Cadillac
Site address:	230 Bay Place, Oakland, California
Current property owner:	Bond CC Oakland, LLC
Current site use:	Vacant – Monthly parking in the rear
Current phase of project:	Groundwater monitoring
Tanks at site:	Three former tanks (1 gasoline, 1 waste-oil) and one closed mineral spirit tank
Number of wells:	7 (5 onsite, 2 offsite)

GROUNDWATER MONITORING SUMMARY

Gauging and sampling date:	30 January 2004
Wells gauged and sampled:	MW1, MW2, TW2, TW6, TW7
Wells gauged only:	None
Groundwater flow direction:	Southwest
Groundwater gradient:	0.05
Liquid-phase hydrocarbons:	Slight sheen in MW1 ¹
Laboratory:	Severn Trent Laboratories of San Francisco, Pleasanton, CA
Analyses performed:	Total Petroleum Hydrocarbons as gasoline (TPH-g), benzene, toluene, ethylbenzene, and total xylenes (BTEX), methyl tertiary butyl ether (MTBE), ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), diisopropyl ether (DIPE), tertiary butyl alcohol (TBA), 1,2-dibromoethane (EDB), 1,2-dichloroethane (1,2-DCA), and ethanol by EPA Method 8260B.

¹ During the sampling event a sudden rain shower occurred.



Attachments:

Figure 1: Site Vicinity Map

Figure 2: Site Plan Showing Groundwater Elevation Data 30 January 2004

Figure 3: Site Plan Showing Groundwater Analytical Results 30 January 2004

Table 1: Groundwater Elevation Data

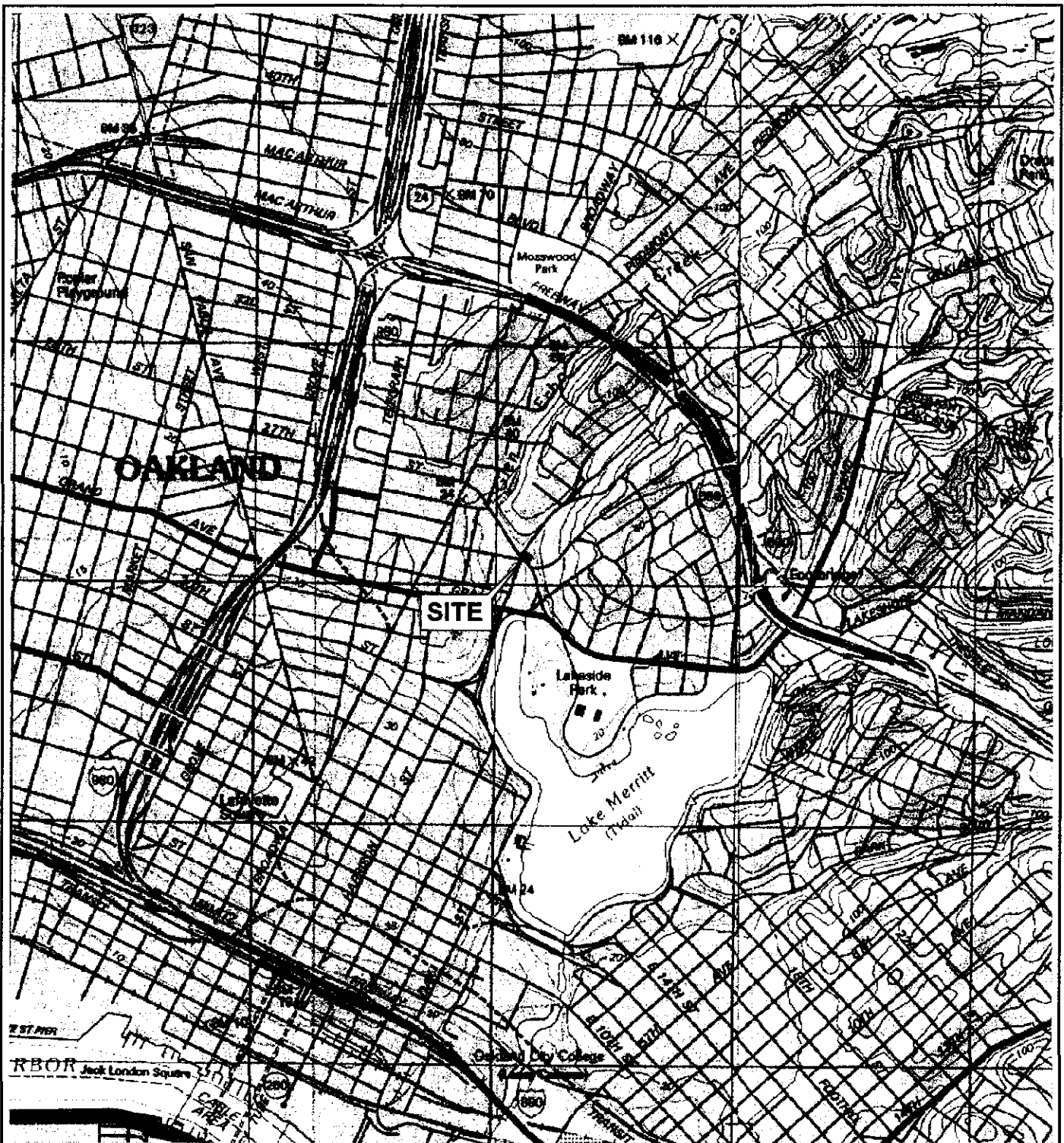
Table 2: Groundwater Analytical Data

Appendix A: Field Protocols

Appendix B: Field Documents

Appendix C: Laboratory Analytical Reports

Figures



Map Source: USGS Topography Map



FILENAME: SITEPLAN0304.DWG 03/08/04




SITE VICINITY MAP
 FORMER COX CADILLAC
 230 BAY PLACE
 OAKLAND, CALIFORNIA

FIGURE:

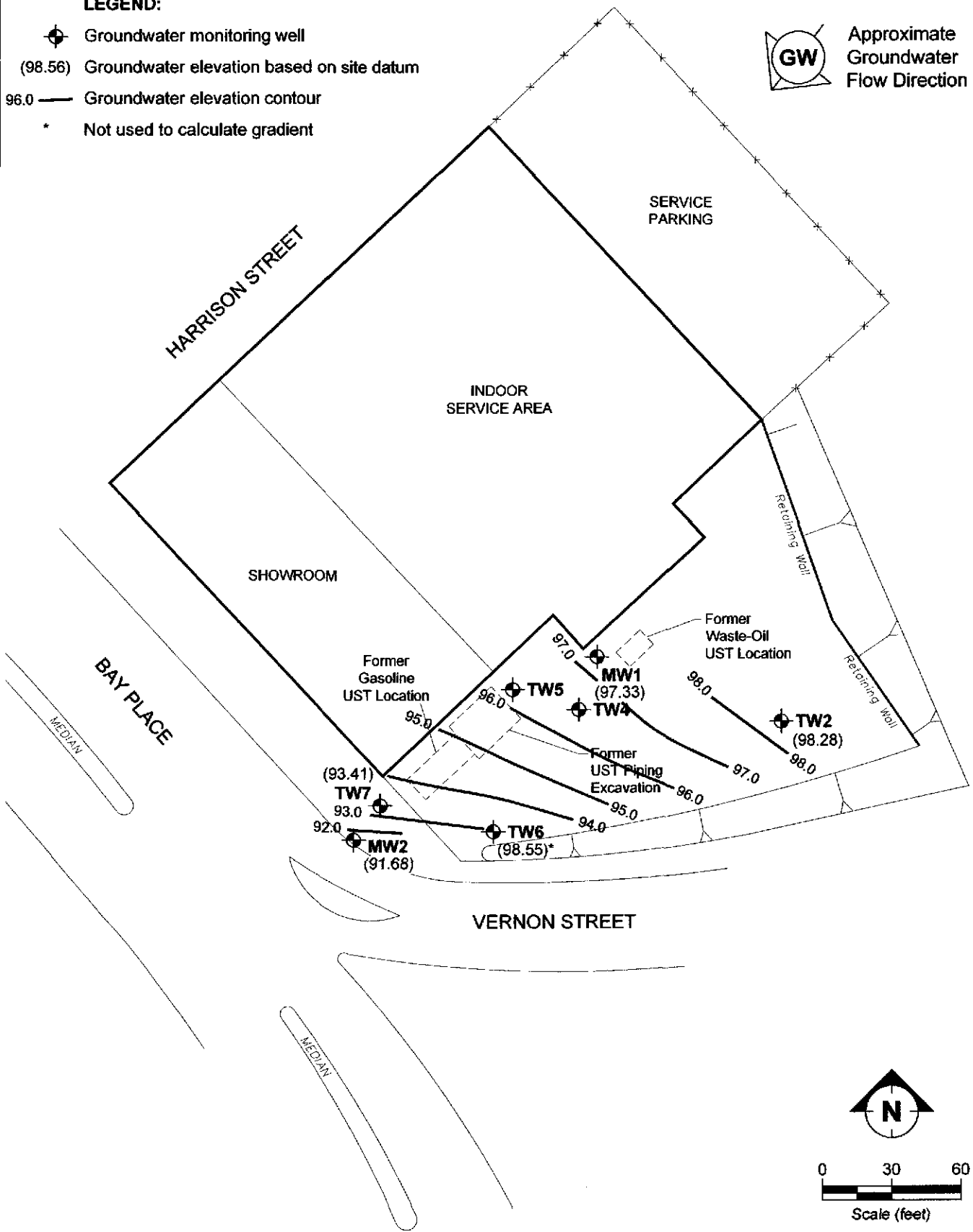
1

LEGEND:

-  Groundwater monitoring well
- (98.56) Groundwater elevation based on site datum
- 96.0 — Groundwater elevation contour
- * Not used to calculate gradient



Approximate
Groundwater
Flow Direction



FILENAME: SITEPLAN0304.DWG 03/08/04



SITE PLAN SHOWING GROUNDWATER ELEVATION DATA
FORMER COX CADILLAC
230 BAY PLACE, OAKLAND, CALIFORNIA
30 JANUARY 2004

FIGURE:

2

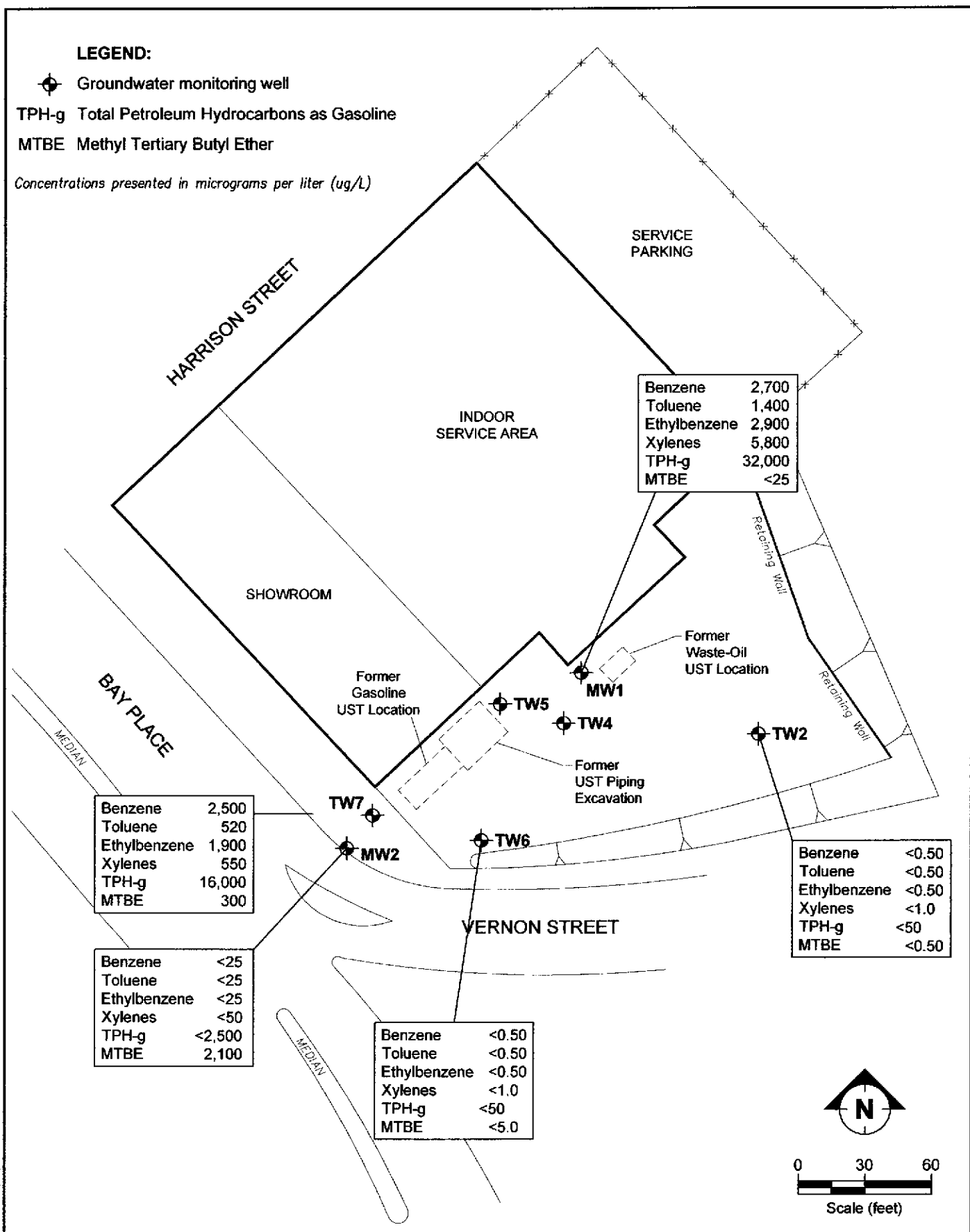
LEGEND:

⊕ Groundwater monitoring well

TPH-g Total Petroleum Hydrocarbons as Gasoline

MTBE Methyl Tertiary Butyl Ether

Concentrations presented in micrograms per liter (ug/L)



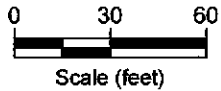
Benzene	2,700
Toluene	1,400
Ethylbenzene	2,900
Xylenes	5,800
TPH-g	32,000
MTBE	<25

Benzene	2,500
Toluene	520
Ethylbenzene	1,900
Xylenes	550
TPH-g	16,000
MTBE	300

Benzene	<25
Toluene	<25
Ethylbenzene	<25
Xylenes	<50
TPH-g	<2,500
MTBE	2,100

Benzene	<0.50
Toluene	<0.50
Ethylbenzene	<0.50
Xylenes	<1.0
TPH-g	<50
MTBE	<5.0

Benzene	<0.50
Toluene	<0.50
Ethylbenzene	<0.50
Xylenes	<1.0
TPH-g	<50
MTBE	<0.50



FILENAME: SITEPLAN0304.DWG 03/08/04



SITE PLAN SHOWING GROUNDWATER ANALYTICAL RESULTS
FORMER COX CADILLAC
230 BAY PLACE, OAKLAND, CALIFORNIA
30 JANUARY 2004

FIGURE:
3

Tables

TABLE 1 GROUNDWATER ELEVATION DATA
FORMER COX CADILLAC, 230 BAY PLACE, OAKLAND CALIFORNIA

Well Number	Sample Date	TOC Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet msl)
MW-1	12/22/94	100.00	2.96	97.04
MW-1	03/24/95	100.00	2.21	97.79
MW-1	06/29/95	100.00	2.44	97.56
MW-1	09/29/95	100.00	3.00	97.00
MW-1	02/23/96	100.00	2.18	97.82
MW-1	01/12/99	100.00	2.79	97.21
MW-1	04/13/99	100.00	2.00	98.00
MW-1	07/07/99	100.00	2.60	97.40
MW-1	10/06/99	100.00	2.94	97.06
MW-1	01/11/00	100.00	2.69	97.31
MW-1	04/06/01	100.00	2.99	97.01
MW-1	07/25/01	100.00	6.00	94.00
MW-1	11/20/01	100.00	3.32	96.68
MW-1	01/23/02	100.00	2.47	97.53
MW-1	04/26/02	100.00	2.25	97.75
MW-1	07/25/02	100.00	3.04	96.96
MW-1	10/22/02	100.00	3.02	96.98
MW-1	01/27/03	100.00	2.27	97.73
MW-1	10/03/03	100.00	2.81	97.19
MW-1	10/22/03	100.00	2.97	97.03
MW-1	01/30/04	100.00	2.67	97.33
MW-2	01/12/99	97.48	5.62	91.86
MW-2	04/13/99	97.48	5.30	92.18
MW-2	07/07/99	97.48	5.80	91.68
MW-2	10/06/99	97.48	5.99	91.49
MW-2	01/11/00	97.48	5.73	91.75
MW-2	04/06/01	97.48	5.65	91.83
MW-2	07/25/01	97.48	6.41	91.07
MW-2	11/20/01	97.48	5.89	91.59
MW-2	01/23/02	97.48	5.68	91.80
MW-2	04/26/02	97.48	5.85	91.63
MW-2	07/25/02	97.48	6.15	91.33
MW-2	10/22/02	97.48	6.25	91.23
MW-2	01/27/03	97.48	5.71	91.77
MW-2	10/03/03	97.48	6.04	91.44
MW-2	10/22/03	97.48	6.08	91.40
MW-2	01/30/04	97.48	5.80	91.68
TW-2	12/22/94	100.43	2.88	97.55
TW-2	03/24/95	100.43	1.87	98.56
TW-2	06/29/95	100.43	2.10	98.33
TW-2	09/29/95	100.43	3.02	97.41
TW-2	02/23/96	100.43	2.13	98.30
TW-2	01/12/99	100.43	1.91	98.52
TW-2	04/13/99	100.43	2.51	97.92
TW-2	07/07/99	100.43	1.89	98.54
TW-2	10/06/99	100.43	1.97	98.46

TABLE 1 GROUNDWATER ELEVATION DATA
FORMER COX CADILLAC, 230 BAY PLACE, OAKLAND CALIFORNIA

Well Number	Sample Date	TOC Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet msl)
TW-2	01/11/00	100.43	1.79	98.64
TW-2	04/06/01	100.43	3.46	96.97
TW-2	07/25/01	100.43	2.60	97.83
TW-2	11/20/01	100.43	1.85	98.58
TW-2	01/23/02	100.43	3.21	97.22
TW-2	04/26/02	100.43	4.30	96.13
TW-2	07/25/02	100.43	1.89	98.54
TW-2	10/22/02	100.43	1.97	98.46
TW-2	01/27/03	100.43	3.15	97.28
TW-2	10/03/03	100.43	1.92	98.51
TW-2	10/22/03	100.43	1.87	98.56
TW-2	01/30/04	100.43	2.15	98.28
TW-4	04/13/99	99.35	1.82	97.53
TW-4	07/07/99	99.35	2.36	96.99
TW-4	01/11/00	99.35	2.63	96.72
TW-4	04/06/01	99.35	3.97	95.38
TW-4	07/25/01	99.35	2.55	96.80
TW-4	11/20/01	99.35	2.33	97.02
TW-4	01/23/02	99.35	2.26	97.09
TW-4	04/26/02	99.35	2.20	97.15
TW-4	07/25/02	99.35	2.24	97.11
TW-4	10/22/02	99.35	2.60	96.75
TW-4	01/27/03	99.35	2.03	97.32
TW-4	10/03/03	99.35	2.72	96.63
TW-5	04/13/99	99.40	1.96	97.44
TW-5	07/07/99	99.40	3.12	96.28
TW-5	01/11/00	99.40	1.03	98.37
TW-5	04/06/01	99.40	3.04	96.36
TW-5	07/25/01	99.40	3.90	95.50
TW-5	11/20/01	99.40	2.55	96.85
TW-5	01/23/02	99.40	2.64	96.76
TW-5	04/26/02	99.40	2.50	96.90
TW-5	07/25/02	99.40	3.15	96.25
TW-5	10/22/02	99.40	3.69	95.71
TW-5	01/27/03	99.40	2.38	97.02
TW-5	10/03/03	99.40	3.73	95.67
TW-6	12/22/94	98.75	4.66	94.09
TW-6	03/24/95	98.75	3.81	94.94
TW-6	06/29/95	98.75	5.25	93.50
TW-6	09/29/95	98.75	6.12	92.63
TW-6	02/23/96	98.75	3.66	95.09
TW-6	01/12/99	98.75	5.52	93.23
TW-6	04/13/99	98.75	4.91	93.84
TW-6	07/07/99	98.75	6.04	92.71
TW-6	10/06/99	98.75	6.64	92.11

TABLE 1 GROUNDWATER ELEVATION DATA
FORMER COX CADILLAC, 230 BAY PLACE, OAKLAND CALIFORNIA

Well Number	Sample Date	TOC Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet msl)
TW-6	01/11/00	98.75	6.41	92.34
TW-6	04/06/01	98.75	4.93	93.82
TW-6	07/25/01	98.75	6.72	92.03
TW-6	11/20/01	98.75	5.44	93.31
TW-6	01/23/02	98.75	3.25	95.50
TW-6	04/26/02	98.75	3.40	95.35
TW-6	07/25/02	98.75	6.54	92.21
TW-6	10/22/02	98.75	7.06	91.69
TW-6	01/27/03	98.75	2.50	96.25
TW-6	10/03/03	98.75	8.85	89.90
TW-6	10/22/03	98.75	5.97	92.78
TW-6	01/30/04	98.75	0.20	98.55
TW-7	12/22/94	97.96	4.50	93.46
TW-7	03/24/95	97.96	2.98	94.98
TW-7	06/29/95	97.96	4.30	93.66
TW-7	09/29/95	97.96	5.19	92.77
TW-7	02/23/96	97.96	3.45	94.51
TW-7	01/12/99	97.96	4.81	93.15
TW-7	04/13/99	97.96	4.73	93.23
TW-7	07/07/99	97.96	5.17	92.79
TW-7	10/06/99	97.96	5.70	92.26
TW-7	01/11/00	97.96	5.42	92.54
TW-7	04/06/01	97.96	4.63	93.33
TW-7	07/25/01	97.96	6.80	91.16
TW-7	11/20/01	97.96	4.75	93.21
TW-7	01/23/02	97.96	5.68	92.28
TW-7	04/26/02	97.96	4.80	93.16
TW-7	07/25/02	97.96	5.61	92.35
TW-7	10/22/02	97.96	6.11	91.85
TW-7	01/27/03	97.96	4.38	93.58
TW-7	10/03/03	97.96	5.80	92.16
TW-7	10/22/03	97.96	5.91	92.05
TW-7	01/30/04	97.96	4.55	93.41

Notes:

TOC - Top of Casing.

BTOC - Beneath top of casing.

msl - Mean sea level.

TABLE 2 GROUNDWATER ANALYTICAL DATA, FORMER COX CADILLAC, 230 BAY PLACE, OAKLAND, CALIFORNIA

Well Number	Sample Date	Concentration (µg/L)													Dissolved	
		Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	MTBE	1,2-DCA	EDB	TAME	TBA	DIPE	ETBE	1,1-DCA	Lead	Ethanol
MW-1	03/03/93	8,500	7,500	4,400	15,000	110,000	--	350	--	--	--	--	--	--	--	--
MW-1	10/13/93	6,100	4,800	4,000	11,000	74,000	--	350	80	--	--	--	--	--	--	--
MW-1	12/22/94	18,000	11,000	2,800	16,000	110,000	--	130	--	--	--	--	<1.0	--	--	--
MW-1	03/24/95	3,700	1,800	2,200	4,700	25,000	--	130	--	--	--	--	<5.0	23	--	--
MW-1	06/29/95	5,300	2,100	3,200	7,500	28,000	--	110	--	--	--	--	<2.0	14	--	--
MW-1	09/29/95	5,600	2,200	3,800	7,400	43,000	--	98	--	--	--	--	<1.0	16	--	--
MW-1	02/23/96	4,800	3,000	3,400	7,700	46,000	--	96	--	--	--	--	<1.0	24	--	--
MW-1	01/12/99	2,600	970	2,900	5,700	39,000	800	--	--	--	--	--	--	--	--	--
MW-1	04/13/99	1,500	500	<50	4,000	29,000	520	--	--	--	--	--	--	--	--	--
MW-1	07/07/99	1,900	870	1,600	3,900	31,000	<250	--	--	--	--	--	--	--	--	--
MW-1	10/06/99	2,100	910	1,800	4,400	32,000	<250	a	--	--	--	--	--	--	--	--
MW-1	01/11/00	52	3.9	63	12	2,400	<5.0	a	--	--	--	--	--	--	--	--
MW-1	04/06/01	4,300	3,200	2,600	7,300	32,000	<10	a	--	--	--	--	--	--	--	--
MW-1	07/25/01	2,300	1,300	2,500	6,200	24,000	<25	a	--	--	--	--	--	--	--	--
MW-1	11/20/01	2,100	890	2,500	3,600	33,000	<100	a	--	--	--	--	--	--	--	--
MW-1	01/23/02	2,400	1,400	2,500	5,900	28,000	350	--	--	--	--	--	--	--	--	--
MW-1	04/26/02	3,200	2,400	2,700	6,300	39,000	2,800	--	--	--	--	--	--	--	--	--
MW-1	07/25/02	2,300	1,300	2,500	4,700	26,000	<500	--	--	--	--	--	--	--	--	--
MW-1	10/22/02	2,800	1,300	4,300	8,600	42,000	<10	<50	<50	<50	<100	<50	<50	--	--	--
MW-1	01/27/03	1,600	660	2,100	3,100	20,000	<20	<100	<100	<100	<200	<100	<100	--	--	--
MW-1	10/22/03	b 2,000	800	1,600	2,800	22,000	<20	<20	<20	<20	<200	<40	<20	--	--	<1,000
MW-1	01/30/04	2,700	1,400	2,900	5,800	32,000	<25	<25	<25	<25	<250	<50	<25	--	--	<1,300
MW-2	01/12/99	1.5	<0.50	<0.50	<0.50	<50	2,900	--	--	--	--	--	--	--	--	--
MW-2	04/13/99	0.76	<0.50	<0.50	<0.50	<50	3,800	--	--	--	--	--	--	--	--	--
MW-2	07/07/99	<25	<25	<25	<25	<2,500	7,000	a	--	--	--	--	--	--	--	--
MW-2	10/06/99	73	<25	<25	<25	2,800	300	a	--	--	--	--	--	--	--	--
MW-2	01/11/00	890	<100	<100	<100	11,000	8,400	a	--	--	--	--	--	--	--	--
MW-2	04/06/01	210	<25	<25	<25	2,800	3,800	a	--	--	--	--	--	--	--	--
MW-2	07/25/01	250	<12.5	<12.5	<12.5	3,400	4,200	a	--	--	--	--	--	--	--	--
MW-2	11/20/01	870	<100	<100	200	12,000	8,700	--	--	--	--	--	--	--	--	--
MW-2	01/23/02	100	<25	<25	<25	3,900	3,300	--	--	--	--	--	--	--	--	--
MW-2	04/26/02	13	<0.50	<0.50	<1.5	90	6,900	--	--	--	--	--	--	--	--	--
MW-2	07/25/02	<50	<50	<50	<100	<5,000	6,600	--	--	--	--	--	--	--	--	--
MW-2	10/22/02	<5.0	<5.0	<5.0	<10	7,800	7,000	<250	<250	<250	<500	<250	<250	--	--	--
MW-2	01/27/03	90	100	60	78	6,100	6,400	<250	<250	<250	<500	<250	<250	--	--	--
MW-2	10/22/03	b <10	<10	<10	<20	2,000	g 3,000	<10	<10	<10	<100	<20	<10	--	--	<500
MW-2	01/30/04	<25	<25	<25	<50	<2,500	2,100	<25	<25	<25	<250	<50	<25	--	--	<1,300

TABLE 2 GROUNDWATER ANALYTICAL DATA, FORMER COX CADILLAC, 230 BAY PLACE, OAKLAND, CALIFORNIA

Well Number	Sample Date	Concentration (µg/L)															
		Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	MTBE	1,2-DCA	EDB	TAME	TBA	DIPE	ETBE	1,1-DCA	Dissolved Lead	Ethanol	
TW-1	10/13/93	<0.50	<0.50	<0.50	<0.50	<50	--	<0.50	<0.50	--	--	--	--	--	--	--	
TW-2	10/13/93	<0.50	<0.50	<0.50	<0.50	<50	--	<0.50	<0.50	--	--	--	--	--	--	--	
TW-2	01/12/99	<0.50	<0.50	<0.50	<0.50	<50	<5.0	--	--	--	--	--	--	--	--	--	
TW-2	04/13/99	<0.50	<0.50	<0.50	<0.50	<50	<5.0	--	--	--	--	--	--	--	--	--	
TW-2	07/07/99	<0.50	<0.50	<0.50	<0.50	<50	<5.0	--	--	--	--	--	--	--	--	--	
TW-2	10/06/99	<0.50	<0.50	<0.50	<0.50	<50	<5.0	--	--	--	--	--	--	--	--	--	
TW-2	01/11/00	<0.50	<0.50	<0.50	<0.50	<50	<5.0	--	--	--	--	--	--	--	--	--	
TW-2	04/06/01	<0.50	<0.50	<0.50	<0.50	<50	<5.0	--	--	--	--	--	--	--	--	--	
TW-2	07/25/01	<0.50	<0.50	<0.50	<0.50	<50	<5.0	--	--	--	--	--	--	--	--	--	
TW-2	11/20/01	<0.50	<0.50	<0.50	<0.50	<50	<5.0	--	--	--	--	--	--	--	--	--	
TW-2	01/23/02	<0.50	<0.50	<0.50	<0.50	<50	<5.0	--	--	--	--	--	--	--	--	--	
TW-2	04/26/02	<0.50	<0.50	<0.50	<1.5	<50	<5.0	--	--	--	--	--	--	--	--	--	
TW-2	07/25/02	<0.50	<0.50	<0.50	<1.0	<50	<5.0	--	--	--	--	--	--	--	--	--	
TW-2	10/22/02	<0.50	<0.50	<0.50	<1.0	<50	<1.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	--	--	--	
TW-2	01/27/03	<0.50	<0.50	<0.50	<1.0	<50	<1.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	--	--	--	
TW-2	10/22/03	b	<0.50	<0.50	<0.50	<1.0	53	g	<0.50	<0.50	<0.50	<5.0	<1.0	<0.50	--	--	<25
TW-2	01/30/04	<0.50	<0.50	<0.50	<1.0	<50	<0.50	<0.50	<0.50	<0.50	<5.0	<1.0	<0.50	--	--	<25	
TW-3	10/13/93	<0.50	<0.50	<0.50	<0.50	<50	--	<0.50	<0.50	--	--	--	--	--	--	--	
TW-4	10/13/93	65	18	49	33	2,000	--	<5.0	<5.0	--	--	--	--	--	--	--	
TW-4	10/03/03	b	<0.50	0.97	0.63	1.4	<0.50	<0.50	<0.50	<0.50	<5.0	<1.0	<0.50	--	--	<25	
TW-5	10/13/93	20,000	25,000	3,800	23,000	140,000	--	<100	<100	--	--	--	--	--	--	--	
TW-5	10/03/03	b	4,400	1,700	820	2,900	21,000	<100	<100	<100	<100	<200	<100	--	--	<5,000	
TW-6	10/14/93	3,800	1,600	110	540	4,100	--	<1.0	<1.0	--	--	--	--	--	--	--	
TW-6	12/22/94	5,400	2,700	3,100	6,800	24,000	--	<1.0	--	--	--	--	<1.0	--	--	--	
TW-6	03/24/95	4,900	530	270	380	10,000	--	<2.0	--	--	--	--	<2.0	<3.0	--	--	
TW-6	06/29/95	12,000	6,600	1,000	3,000	28,000	--	<1.0	--	--	--	--	<1.0	4.2	--	--	
TW-6	09/29/95	19,000	5,200	1,500	4,000	47,000	--	<1.0	--	--	--	--	<1.0	3.3	--	--	
TW-6	02/23/96	13,000	5,200	1,100	2,770	25,000	--	<1.0	--	--	--	--	<1.0	5.2	--	--	
TW-6	01/12/99	9,900	4,100	1,000	4,000	29,000	210	--	--	--	--	--	--	--	--	--	
TW-6	04/13/99	0.70	<0.50	<0.50	0.62	<50	22	--	--	--	--	--	--	--	--	--	
TW-6	07/07/99	13	<0.50	<0.50	2.2	55	8.1	a	--	--	--	--	--	--	--	--	
TW-6	10/06/99	0.59	<0.50	<0.50	<0.50	<50	<5	--	--	--	--	--	--	--	--	--	
TW-6	01/11/00	<0.50	<0.50	<0.50	<0.50	<50	<5.0	--	--	--	--	--	--	--	--	--	
TW-6	04/06/01	<0.50	<0.50	<0.50	<0.50	<50	<5.0	--	--	--	--	--	--	--	--	--	

TABLE 2 GROUNDWATER ANALYTICAL DATA, FORMER COX CADILLAC, 230 BAY PLACE, OAKLAND, CALIFORNIA

Well Number	Sample Date	Concentration (µg/L)														
		Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	MTBE	1,2-DCA	EDB	TAME	TBA	DIPE	ETBE	1,1-DCA	Dissolved Lead	Dissolved Ethanol
TW-6	07/25/01	<0.50	<0.50	<0.50	<0.50	<50	<5.0	--	--	--	--	--	--	--	--	--
TW-6	11/20/01	<0.50	<0.50	<0.50	<0.50	<50	<5.0	--	--	--	--	--	--	--	--	--
TW-6	01/23/02	<0.50	<0.50	<0.50	<0.50	<50	<5.0	--	--	--	--	--	--	--	--	--
TW-6	04/26/02	<0.50	<0.50	<0.50	<1.5	<50	<5.0	--	--	--	--	--	--	--	--	--
TW-6	07/25/02	0.60	<0.50	<0.50	<1	<50	<5.0	--	--	--	--	--	--	--	--	--
TW-6	10/22/02	<0.50	<0.50	<0.50	<1.0	<50	<1.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	--	--	--
TW-6	01/27/03	<0.50	<0.50	<0.50	<1.0	<50	<1.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	--	--	--
TW-6	10/22/03	b	<0.50	<0.50	<0.50	<1.0	<50	<5.0	<0.50	<0.50	<0.50	<5.0	<1.0	<0.50	--	<25
TW-6	01/30/04	<0.50	<0.50	<0.50	<1.0	<50	<5.0	<0.50	<0.50	<0.50	<5.0	<1.0	<0.50	--	--	<25
TW-7	10/14/93	48,000	15,000	3,400	16,000	100,000	--	<50	<50	--	--	--	--	--	--	--
TW-7	12/22/94	49,000	33,000	7,300	28,000	210,000	--	<1.0	--	--	--	--	<1.0	--	--	--
TW-7	03/24/95	13,000	7,000	1,500	5,600	56,000	--	<2.0	--	--	--	--	<2.0	<3.0	--	--
TW-7	06/29/95	39,000	8,100	3,000	8,300	100,000	--	<1.0	--	--	--	--	<1.0	3.5	--	--
TW-7	09/29/95	32,000	8,700	2,900	8,600	74,000	--	<1.0	--	--	--	--	<1.0	3.5	--	--
TW-7	02/23/96	22,000	8,400	2,700	6,900	50,000	--	<5.0	--	--	--	--	<5.0	3.8	--	--
TW-7	01/12/99	7,300	670	2,700	960	29,000	<100	--	--	--	--	--	--	--	--	--
TW-7	04/13/99	4,500	1,800	180	8,200	54,000	1,200	--	--	--	--	--	--	--	--	--
TW-7	07/07/99	8,000	4,500	1,200	3,500	42,000	2,200	a	--	--	--	--	--	--	--	--
TW-7	10/06/99	9,700	1,600	1,600	2,100	29,000	580	a	--	--	--	--	--	--	--	--
TW-7	01/11/00	8,500	7,100	1,600	6,700	52,000	2,600	a	--	--	--	--	--	--	--	--
TW-7	04/06/01	4,800	1,800	2,200	3,400	22,000	690	a	--	--	--	--	--	--	--	--
TW-7	07/25/01	5,100	660	1,400	2,100	20,000	1,100	a	--	--	--	--	--	--	--	--
TW-7	11/20/01	6,400	1,100	1,000	2,400	26,000	1,600	--	--	--	--	--	--	--	--	--
TW-7	01/23/02	5,100	510	2,200	3,900	25,000	1,200	--	--	--	--	--	--	--	--	--
TW-7	04/26/02	4,400	1,300	2,900	2,370	29,000	1,600	--	--	--	--	--	--	--	--	--
TW-7	07/25/02	4,900	470	1,600	1,700	21,000	1,900	--	--	--	--	--	--	--	--	--
TW-7	10/22/02	6,700	410	1,100	1,500	31,000	1,700	a	<100	<100	<100	<200	<100	<100	--	--
TW-7	01/27/03	2,700	710	1,900	1,100	17,000	680	--	<100	<100	<100	<200	<100	<100	--	--
TW-7	10/22/03	b	2,900	130	310	370	13,000	660	<13	<13	<13	<130	<25	<13	--	<630
TW-7	01/30/04	2,500	520	1,900	550	16,000	300	--	<25	<25	<25	<250	<50	<25	--	<1,300

TABLE 2 GROUNDWATER ANALYTICAL DATA, FORMER COX CADILLAC, 230 BAY PLACE, OAKLAND, CALIFORNIA

Well Number	Sample Date	Concentration (µg/L)													
		Benzene	Toluene	Ethyl- benzene	Total Xylenes	TPH-g	MTBE	1,2-DCA	EDB	TAME	TBA	DIPE	ETBE	1,1-DCA	Dissolved Lead

Notes:

TPHg - Total Petroleum Hydrocarbons as gasoline

MTBE - Methyl tertiary butyl ether

DCA - Dichloroethane

EDB - Ethylene dibromide

TAME - Tertiary amyl methyl ether

TBA - Tertiary butyl alcohol

DIPE - Di-isopropyl ether

ETBE - Ethyl tertiary butyl ether

µg/L = Micrograms per liter.

< = Not detected at or above indicated laboratory reporting limit.

-- = Not Analyzed

a = MTBE Confirmation by EPA Method 8260B.

b = Samples were analyzed by EPA Method 8260B.

g = hydrocarbon reported in gasoline range does not match our gasoline standard.

Appendix A
Field Protocols

PROTOCOLS FOR QUARTERLY GROUNDWATER MONITORING

GROUNDWATER GAUGING

Wells are opened prior to gauging to allow the groundwater level in the wells to equilibrate with atmospheric pressure. The depth to groundwater and depth to liquid-phase hydrocarbons, if present, are then measured to the nearest 0.01 feet using an electronic water level meter or optical interface probe. The measurements are made from a permanent reference point at the top of the well casing. If less than 1 foot of water is measured in a well, the water is bailed from the well and, if the well does not recover, the well is considered "functionally dry." Wells with a sheen or measurable liquid-phase hydrocarbons are generally not purged or sampled.

WELL PURGING

After the wells are gauged, each well is purged of approximately 3 well casing volumes of water to provide representative groundwater samples for analysis. Field parameters of pH, temperature, and electrical conductance are measured during purging to ensure that these parameters have stabilized before groundwater in a well is sampled. Groundwater in each well is purged using an inertial pump (WaTerra), an electric submersible pump, or a bailer. After the well is purged, the water level is checked to ensure that the well has recharged to at least 80 percent of its original water level.

GROUNDWATER SAMPLING

After purging, groundwater in each well is sampled using dedicated tubing and an inertial pump (WaTerra) or a factory-cleaned disposable bailer. Samples from extraction wells are typically collected from sample ports associated with the groundwater remediation system. Samples collected for volatile organic analysis are placed in Teflon septum-sealed 40-milliliter glass vials. Samples collected for diesel analysis are placed in 1-liter amber glass bottles. Each sample bottle is labeled with the site name, well number, date, sampler's initials, and preservative. The samples are placed in a cooler with ice for delivery to a state-certified laboratory. The information for each sample is entered on a chain-of-custody form prior to transport to the laboratory.

Appendix B
Field Documents



GROUNDWATER PURGE AND SAMPLE

Project Name: COX CADILLAC, 230 BAY PLACE, OAKLAND Well No: MW1 Date: 1/3/04
 Project No: TMC0X1.1 Personnel: PATRICK P

GAUGING DATA

Water Level Measuring Method: WATER LEVEL METER Measuring Point Description:

WELL PURGE VOLUME CALCULATION	Total Depth (feet)	Depth to Water (feet)	Water Column (feet)	Multiplier for Casing Diameter				Casing Volume (gal)	Total Purge Volume (gal)
	20.01	2.67	17.34	1	2	4	6	2.77	8.32
			0.04	0.15	0.64	1.44			

PURGING DATA

Purge Method: WATERRA Purge Depth: Purge Rate: (gpm)

Time	8:50	8:52	8:54		
Volume Purged (gal)	3	6	9		
Temperature (°C)	16.4	17.8	18.8		
pH	6.90	6.88	6.83		
Sp. Cond. (µmhos)	2940	2988	3113		
Qualitative Obs.	SILTY GRN	SILTY GRN	SILTY GRN		
Odor (Y/N)	Y	Y	Y		
Casing Volume	-	-	-		
Dewatered (Y/N)	N	N	N		

Comments/Observations: LT SILTY DETECTED ON SURFACE OF WATER & ODOR PRESENT

SAMPLING DATA

Time Sampled: 8:55 Approximate Depth to Water During Sampling: (feet)
 Comments:

Sample Number	Number of Containers	Container Type	Perservative	Volume Filled (ml or L)	Turbidity/Color	Analysis Method
MW1		VOA	HCL	40ml		

Total Purge Volume: 9 (gallons) Disposal:

Weather Conditions: ~~WET~~ RAIN

Condition of Well Box and Casing at Time of Sampling: NO BOLTS

Well Head Conditions Requiring Correction: NONE

Problems Encountered During Purging and Sampling: NONE

Comments:

G:\USERS\DP\Ingenium\COX\WellPURGE\form.ctb Sheet 1

925-6024710



GROUNDWATER PURGE AND SAMPLE

Project Name: COX CADILLAC, 230 BAY PLACE, OAKLAND Well No: *MW2* Date: *1/20/04*
 Project No: TMCOX1.1 Personnel: PATRICK P

GAUGING DATA

Water Level Measuring Method: WATER LEVEL METER Measuring Point Description:

WELL PURGE VOLUME CALCULATION	Total Depth (feet)	Depth to Water (feet)	Water Column (feet)	Multiplier for Casing Diameter				Casing Volume (gal)	Total Purge Volume (gal)
		19.90	5.80	14.10	1	2	4	6	2.25
				0.04	0.16	0.64	1.44		

PURGING DATA

Purge Method: WATERRA Purge Depth: Purge Rate: (gpm)

Time	10:31	10:33	10:35		
Volume Purge (gal)	2	4	6		
Temperature (F)	17.9	18.3	18.5		
pH	6.82	6.72	6.69		
Spec. Cond. (umhos)	3972	3954	3926		
Turbidity/Color	SLTRY BAN	SLTRY BAN	SLTRY BAN		
Col (NTU)	N	N	N		
Casing Volume	-	-	-		
Dewatered (Y/N)	N	N	N		

Comments/Observations:

SAMPLING DATA

Time Sampled: 10:40 Approximate Depth to Water During Sampling: (feet)
 Comments:

Sample Number	Number of Containers	Container Type	Preservative	Volume Filled (ml or L)	Turbidity/Color	Analysis Method
<i>MW2</i>		VOA	HCL	40ml		

Total Purge Volume: *6* (gallons) Disposal:

Weather Conditions: *OK*

Condition of Well Box and Casing at Time of Sampling: *1 BOLT MISSING*

Well Head Conditions Requiring Correction: *NONE*

Problems Encountered During Purging and Sampling: *NONE*

Comments:

G:\USERS\DFirger\td\COX\WellPURGEform.xls Sheet1

17 bottles



GROUNDWATER PURGE AND SAMPLE

Project Name: COX CADILLAC, 230 BAY PLACE, OAKLAND Well No: TW2 Date: 1/30/09
 Project No: TMC0X1.1 Personnel: PATRICK P

GAUGING DATA

Water Level Measuring Method: WATER LEVEL METER Measuring Point Description:

WELL PURGE VOLUME CALCULATION	Total Depth (feet)	Depth to Water (feet)	Water Column (feet)	Multiplier for Casing Diameter				Casing Volume (gal)	Total Purge Volume (gal)
				1	2	4	6		
	7.78	2.15	5.63	0.04	0.16	0.64	1.44	.90	2.70

PURGING DATA

Purge Method: ~~WATER~~ BAUER Purge Depth: Purge Rate: (gpm)

Time	8:22	8:23	8:24			
Volume Purge (gal)	1	2	3			
Temperature (C)	14.4	15.0	15.3			
pH	6.62	6.66	6.81			
Sp. Cond. (umhos)	3363	3590	3458			
Turbidity (color)	SILTY BAN	SILTY BAN	SILTY BAN			
Color (PCU)	N	N	N			
Casing Volume	-	-	-			
Dewatered (CON)	N	N	N			

Comments/Observations: DEWATERED @ 3 gallons

SAMPLING DATA

Time Sampled: 8:30 Approximate Depth to Water During Sampling: (feet)
 Comments:

Sample Number	Number of Containers	Container Type	Preservative	Volume Filled (ml or L)	Turbidity/Color	Analysis Method
TW2		VOA	HCL	40ml		

Total Purge Volume: 3 (gallons) Disposal:

Weather Conditions: ~~WET~~ LT RAIN

Condition of Well Box and Casing at Time of Sampling: NO LID / NO DOORS / NO TANKS

Well Head Conditions Requiring Correction: NONE

Problems Encountered During Purging and Sampling: DEWATERED @ 3 gallons



GROUNDWATER PURGE AND SAMPLE

Project Name: COX CADILLAC, 230 BAY PLACE, OAKLAND Well No: TW6 Date: 1/30/04
 Project No: TMC0X1.1 Personnel: PATRICK P

GAUGING DATA

Water Level Measuring Method: WATER LEVEL METER Measuring Point Description:

WELL PURGE VOLUME CALCULATION	Total Depth (feet)	Depth to Water (feet)	Water Column (feet)	Multiplier for Casing Diameter				Casing Volume (gal)	Total Purge Volume (gal)
	7.73	2.20	7.53	1	2	4	6	1.20	3.61
			0.04	0.16	0.64	1.44			

PURGING DATA

Purge Method: ~~WATER~~ BALLOON Purge Depth: _____ Purge Rate: _____ (gpm)

Time	9:25	9:26	9:27			
Volume Purge (gal)	1	2	3			
Temperature (°C)	14.6	14.4	14.8			
pH	7.48	7.19	7.11			
Specific Conductivity	192.5	201.7	239.1			
Turbidity/Color	SILTY	BRN	SILTY	BRN	SILTY	BRN
Oil (mg)	N	N	N			
Casing Volume	-	-	-			
Dewatered (g/min)	N	N	N			

Comments/Observations:

SAMPLING DATA

Time Sampled: 9:35 Approximate Depth to Water During Sampling: _____ (feet)
 Comments:

Sample Number	Number of Containers	Container Type	Preservative	Volume Filled (ml/gal)	Turbidity/Color	Analysis Method
<u>TW6</u>		VOA	HCL	40ml		

Total Purge Volume: 3 (gallons) Disposal:

Weather Conditions: ~~WET~~ SHOWER

Condition of Well Box and Casing at Time of Sampling: NO BELTS / NO TONGS

Well Head Conditions Requiring Correction: NONE

Problems Encountered During Purging and Sampling: LOTS OF RAIN WATER IN WELL

Comments:



GROUNDWATER PURGE AND SAMPLE

Project Name: COX CADILLAC, 230 BAY PLACE, OAKLAND Well No: TW7 Date: 6/30/04
 Project No: TMC0X1.1 Personnel: PATRICK P

GAUGING DATA

Water Level Measuring Method: WATER LEVEL METER Measuring Point Description:

WELL PURGE VOLUME CALCULATION	Total Depth (feet)	Depth to Water (feet)	Water Column (feet)	Multiplier for Casing Diameter				Casing Volume (gal)	Total Purge Volume (gal)
		9.81	4.55	5.26	1 0.04	2 0.16	4 0.64	6 1.44	.84

PURGING DATA

Purge Method: WATERRA Purge Depth: Purge Rate: (gpm)

Time	9:50	9:51	9:52			
Volume Purge (gal)	1	2	3			
Temperature (C)	16.3	16.7	17.0			
SPH	6.75	6.79	6.84			
Specific Conductivity	855.8	860.9	872.3			
Turbidity/Color	SLTY CLR	SLTY CLR	SLTY CLR			
Other (N/A)	Y	Y	Y			
Casing Volume	-	-	-			
De-aerated (Y/N)	N	N	N			

Comments/Observations: SLIGHT ODOR

SAMPLING DATA

Time Sampled: 10:00 Approximate Depth to Water During Sampling: (feet)
 Comments:

Sample Number	Number of Containers	Container Type	Preservative	Volume Filled (ml or l)	Turbidity/Color	Analysis Method
TW7		VOA	HCL	40ml		

Total Purge Volume: 3 (gallons) Disposal:

Weather Conditions: OK
 Condition of Well Box and Casing at Time of Sampling: OK

Well Head Conditions Requiring Correction: NONE
 Problems Encountered During Purging and Sampling: NONE

Comments:

Appendix C

Laboratory Analytical Reports

ETIC Oakland

February 06, 2004

1333 Broadway, Suite 1015
Oakland, CA 94612

Attn.: Luis Fraticelli

Project#: TMCOX.21.1

Project: Cox Cadillac

RECEIVED
FEB 27 2004
ETIC ENGINEERING

Attached is our report for your samples received on 01/30/2004 14:05

This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 03/15/2004 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions,

You can also contact me via email. My email address is: ccaparas@stl-inc.com

Sincerely,

Criselda Caparas
Project Manager

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Luis Fraticelli

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMCOX.21.1
Cox Cadillac

Received: 01/30/2004 14:05

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW1	01/30/2004 08:55	Water	1
MW2	01/30/2004 10:40	Water	2
TW2	01/30/2004 08:30	Water	3
TW6	01/30/2004 09:35	Water	4
TW7	01/30/2004 10:00	Water	5

Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Luis Fraticelli

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMC0X.21.1

Cox Cadillac

Received: 01/30/2004 14:05

Prep(s): 5030B Test(s): 8260B
 Sample ID: MW1 Lab ID: 2004-01-0827 - 1
 Sampled: 01/30/2004 08:55 Extracted: 2/4/2004 22:00
 Matrix: Water QC Batch#: 2004/02/04-02.64
 Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	32000	2500	ug/L	50.00	02/04/2004 22:00	
tert-Butyl alcohol (TBA)	ND	250	ug/L	50.00	02/04/2004 22:00	
Methyl tert-butyl ether (MTBE)	ND	25	ug/L	50.00	02/04/2004 22:00	
Di-isopropyl Ether (DIPE)	ND	50	ug/L	50.00	02/04/2004 22:00	
Ethyl tert-butyl ether (ETBE)	ND	25	ug/L	50.00	02/04/2004 22:00	
tert-Amyl methyl ether (TAME)	ND	25	ug/L	50.00	02/04/2004 22:00	
1,2-DCA	ND	25	ug/L	50.00	02/04/2004 22:00	
EDB	ND	25	ug/L	50.00	02/04/2004 22:00	
Benzene	2700	25	ug/L	50.00	02/04/2004 22:00	
Toluene	1400	25	ug/L	50.00	02/04/2004 22:00	
Ethylbenzene	2900	25	ug/L	50.00	02/04/2004 22:00	
Total xylenes	5800	50	ug/L	50.00	02/04/2004 22:00	
Ethanol	ND	1300	ug/L	50.00	02/04/2004 22:00	
Surrogate(s)						
1,2-Dichloroethane-d4	99.4	76-114	%	50.00	02/04/2004 22:00	
Toluene-d8	99.8	88-110	%	50.00	02/04/2004 22:00	

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

02/06/2004 08:58

Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Luis Fraticelli

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMC0X.21.1

Cox Cadillac

Received: 01/30/2004 14:05

Prep(s): 5030B

Test(s): 8260B

Sample ID: MW2

Lab ID: 2004-01-0827 - 2

Sampled: 01/30/2004 10:40

Extracted: 2/4/2004 22:22

Matrix: Water

QC Batch#: 2004/02/04-02.64

Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	2500	ug/L	50.00	02/04/2004 22:22	
tert-Butyl alcohol (TBA)	ND	250	ug/L	50.00	02/04/2004 22:22	
Methyl tert-butyl ether (MTBE)	2100	25	ug/L	50.00	02/04/2004 22:22	
Di-isopropyl Ether (DIPE)	ND	50	ug/L	50.00	02/04/2004 22:22	
Ethyl tert-butyl ether (ETBE)	ND	25	ug/L	50.00	02/04/2004 22:22	
tert-Amyl methyl ether (TAME)	ND	25	ug/L	50.00	02/04/2004 22:22	
1,2-DCA	ND	25	ug/L	50.00	02/04/2004 22:22	
EDB	ND	25	ug/L	50.00	02/04/2004 22:22	
Benzene	ND	25	ug/L	50.00	02/04/2004 22:22	
Toluene	ND	25	ug/L	50.00	02/04/2004 22:22	
Ethylbenzene	ND	25	ug/L	50.00	02/04/2004 22:22	
Total xylenes	ND	50	ug/L	50.00	02/04/2004 22:22	
Ethanol	ND	1300	ug/L	50.00	02/04/2004 22:22	
Surrogate(s)						
1,2-Dichloroethane-d4	95.2	76-114	%	50.00	02/04/2004 22:22	
Toluene-d8	96.4	88-110	%	50.00	02/04/2004 22:22	

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

02/06/2004 08:58

Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Luis Fraticelli

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMC0X.21.1

Cox Cadillac

Received: 01/30/2004 14:05

Prep(s):	5030B	Test(s):	8260B
Sample ID:	TW2	Lab ID:	2004-01-0827 - 3
Sampled:	01/30/2004 08:30	Extracted:	2/4/2004 22:44
Matrix:	Water	QC Batch#:	2004/02/04-02.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	02/04/2004 22:44	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	02/04/2004 22:44	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	02/04/2004 22:44	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	1.00	02/04/2004 22:44	
Ethyl tert-butyl ether (ETBE)	ND	0.50	ug/L	1.00	02/04/2004 22:44	
tert-Amyl methyl ether (TAME)	ND	0.50	ug/L	1.00	02/04/2004 22:44	
1,2-DCA	ND	0.50	ug/L	1.00	02/04/2004 22:44	
EDB	ND	0.50	ug/L	1.00	02/04/2004 22:44	
Benzene	ND	0.50	ug/L	1.00	02/04/2004 22:44	
Toluene	ND	0.50	ug/L	1.00	02/04/2004 22:44	
Ethylbenzene	ND	0.50	ug/L	1.00	02/04/2004 22:44	
Total xylenes	ND	1.0	ug/L	1.00	02/04/2004 22:44	
Ethanol	ND	25	ug/L	1.00	02/04/2004 22:44	
<i>Surrogate(s)</i>						
1,2-Dichloroethane-d4	97.9	76-114	%	1.00	02/04/2004 22:44	
Toluene-d8	98.2	88-110	%	1.00	02/04/2004 22:44	

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

02/06/2004 08:58

Fuel Oxygenates by 8260B

ETIC Oakland
Attn.: Luis Fraticelli

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMC0X.21.1
Cox Cadillac

Received: 01/30/2004 14:05

Prep(s): 5030B	Test(s): 8260B
Sample ID: TW6	Lab ID: 2004-01-0827 - 4
Sampled: 01/30/2004 09:35	Extracted: 2/4/2004 23:50
Matrix: Water	QC Batch#: 2004/02/04-02.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	02/04/2004 23:50	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	02/04/2004 23:50	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	02/04/2004 23:50	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	1.00	02/04/2004 23:50	
Ethyl tert-butyl ether (ETBE)	ND	0.50	ug/L	1.00	02/04/2004 23:50	
tert-Amyl methyl ether (TAME)	ND	0.50	ug/L	1.00	02/04/2004 23:50	
1,2-DCA	ND	0.50	ug/L	1.00	02/04/2004 23:50	
EDB	ND	0.50	ug/L	1.00	02/04/2004 23:50	
Benzene	ND	0.50	ug/L	1.00	02/04/2004 23:50	
Toluene	ND	0.50	ug/L	1.00	02/04/2004 23:50	
Ethylbenzene	ND	0.50	ug/L	1.00	02/04/2004 23:50	
Total xylenes	ND	1.0	ug/L	1.00	02/04/2004 23:50	
Ethanol	ND	25	ug/L	1.00	02/04/2004 23:50	
Surrogate(s)						
1,2-Dichloroethane-d4	98.6	76-114	%	1.00	02/04/2004 23:50	
Toluene-d8	101.0	88-110	%	1.00	02/04/2004 23:50	

Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Luis Fraticelli

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMC0X.21.1

Cox Cadillac

Received: 01/30/2004 14:05

Prep(s): 5030B Test(s): 8260B
 Sample ID: TW7 Lab ID: 2004-01-0827 - 5
 Sampled: 01/30/2004 10:00 Extracted: 2/5/2004 00:12
 Matrix: Water QC Batch#: 2004/02/04-02.64
 Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	16000	2500	ug/L	50.00	02/05/2004 00:12	
tert-Butyl alcohol (TBA)	ND	250	ug/L	50.00	02/05/2004 00:12	
Methyl tert-butyl ether (MTBE)	300	25	ug/L	50.00	02/05/2004 00:12	
Di-isopropyl Ether (DIPE)	ND	50	ug/L	50.00	02/05/2004 00:12	
Ethyl tert-butyl ether (ETBE)	ND	25	ug/L	50.00	02/05/2004 00:12	
tert-Amyl methyl ether (TAME)	ND	25	ug/L	50.00	02/05/2004 00:12	
1,2-DCA	ND	25	ug/L	50.00	02/05/2004 00:12	
EDB	ND	25	ug/L	50.00	02/05/2004 00:12	
Benzene	2500	25	ug/L	50.00	02/05/2004 00:12	
Toluene	520	25	ug/L	50.00	02/05/2004 00:12	
Ethylbenzene	1900	25	ug/L	50.00	02/05/2004 00:12	
Total xylenes	550	50	ug/L	50.00	02/05/2004 00:12	
Ethanol	ND	1300	ug/L	50.00	02/05/2004 00:12	
Surrogate(s)						
1,2-Dichloroethane-d4	98.4	76-114	%	50.00	02/05/2004 00:12	
Toluene-d8	97.8	88-110	%	50.00	02/05/2004 00:12	

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94586

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

02/06/2004 08:58

Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Luis Fraticelli

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMCOX.21.1

Cox Cadillac

Received: 01/30/2004 14:05

Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2004/02/04-02.64-050

Water

Test(s): 8260B

QC Batch # 2004/02/04-02.64

Date Extracted: 02/04/2004 18:50

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	02/04/2004 18:50	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	02/04/2004 18:50	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	02/04/2004 18:50	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	02/04/2004 18:50	
Ethyl tert-butyl ether (ETBE)	ND	0.5	ug/L	02/04/2004 18:50	
tert-Amyl methyl ether (TAME)	ND	0.5	ug/L	02/04/2004 18:50	
1,2-DCA	ND	0.5	ug/L	02/04/2004 18:50	
EDB	ND	0.5	ug/L	02/04/2004 18:50	
Benzene	ND	0.5	ug/L	02/04/2004 18:50	
Toluene	ND	0.5	ug/L	02/04/2004 18:50	
Ethylbenzene	ND	0.5	ug/L	02/04/2004 18:50	
Total xylenes	ND	1.0	ug/L	02/04/2004 18:50	
Ethanol	ND	25	ug/L	02/04/2004 18:50	
Surrogates(s)					
1,2-Dichloroethane-d4	88.0	76-114	%	02/04/2004 18:50	
Toluene-d8	98.8	88-110	%	02/04/2004 18:50	

Sewer Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

02/06/2004 08:58

Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Luis Fraticelli

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMCOX.21.1

Cox Cadillac

Received: 01/30/2004 14:05

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Water

QC Batch # 2004/02/04-02.64

LCS 2004/02/04-02.64-006

Extracted: 02/04/2004

Analyzed: 02/04/2004 18:06

LCSD 2004/02/04-02.64-028

Extracted: 02/04/2004

Analyzed: 02/04/2004 18:28

Compound	Conc. ug/L		Exp. Conc.	Recovery %		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	19.1	17.4	25.0	76.4	69.6	9.3	65-165	20		
Benzene	23.0	22.7	25.0	92.0	90.8	1.3	69-129	20		
Toluene	24.1	24.8	25.0	96.4	99.2	2.9	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	468	425	500	93.6	85.0		76-114			
Toluene-d8	494	505	500	98.8	101.0		88-110			

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

02/06/2004 08:58

Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Luis Fraticelli

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMC0X.21.1
Cox Cadillac

Received: 01/30/2004 14:05

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD)

Water

QC Batch # 2004/02/04-02.64

TW2 >> MS

Lab ID: 2004-01-0827 - 003

MS: 2004/02/04-02.64-051

Extracted: 02/04/2004

Analyzed: 02/04/2004 23:06

Dilution: 1.00

MSD: 2004/02/04-02.64-052

Extracted: 02/04/2004

Analyzed: 02/04/2004 23:28

Dilution: 1.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	21.9	19.8	ND	25.0	87.6	79.2	10.1	65-165	20		
Benzene	23.7	23.4	ND	25.0	94.8	93.6	1.3	69-129	20		
Toluene	24.7	25.4	ND	25.0	98.8	101.6	2.8	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	505	460		500	101.0	92.0		76-114	0		
Toluene-d8	498	492		500	99.6	98.4		88-110	0		

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

02/06/2004 08:58

2004-01-0827

From		Analysis Request															Number of Containers			
Proj.Mgr	Luis Fraticelli	TPH (EPA 8015, 8020/8021) Gas w/ BTEX MTBE	Purgeable Aromatics BTEX (EPA 8020/8021)	TEPH (EPA 8015M) <input type="checkbox"/> Silica Gel <input type="checkbox"/> Diesel <input type="checkbox"/> Motor Oil <input type="checkbox"/> Other	Fuel Oxygenates (8260B) <input type="checkbox"/> DCA, EDB <input type="checkbox"/> Full Oxygenate List <input type="checkbox"/> MTBE <input type="checkbox"/> BTEX	Purgeable Halocarbons (HVOCs) (EPA 8010/8021)	Volatile Organics GC/MS (VOCs) (EPA 8260A/8260B)	Semivolatiles GC/MS (EPA 8270)	Oil and Grease <input type="checkbox"/> Petroleum (EPA 1664) <input type="checkbox"/> Total	<input type="checkbox"/> Pesticides (EPA 8081) <input type="checkbox"/> PCBs (EPA 8062)	PNAs by <input type="checkbox"/> 8270 <input type="checkbox"/> 8310	CAM17 Metals (EPA 6010/7470/7471)	Metals: <input type="checkbox"/> Lead <input type="checkbox"/> LUFT <input type="checkbox"/> RCRA <input type="checkbox"/> Other:	<input type="checkbox"/> W.E.T (STLC) <input type="checkbox"/> TCLP	Hexavalent Chromium pH (24h hold time for H ₂ O)	Spec Cond. <input type="checkbox"/> Alkalinity TSS <input type="checkbox"/> TDS		Anions: <input type="checkbox"/> Cl <input type="checkbox"/> SO ₄ <input type="checkbox"/> NO ₃ <input type="checkbox"/> F <input type="checkbox"/> Br <input type="checkbox"/> NO ₂ <input type="checkbox"/> PO ₄	TPH-g, BTEX, 5 fuel oxygenates, 1,2-DCA, EDB, and ethanol by EPA Method 8260	
Company	ETIC Engineering	Address	1333 Broadway, Suite 1015. OAKLAND, CA 94612																	
Sampler (Signature)	[Signature]																			
Phone (510)208-1600	Fax/Email(510)208-1604																			
Sample ID	Date	Time	Mat rix	Pres erv.																
MW1	1/30	8:55																		
MW2	1/30	10:40																		4
TW2	1/30	8:30																		6
TW6	1/30	9:35																		6
TW7	1/30	10:00																		6

Project Info.		Sample Receipt	
Project Name: Cox Cadillac	# of Containers:		
Project#: TMCOX.21.1	Head Space:		
PO#:	Temp: 60.0°C		
Credit Card#:	Conforms to record:		
T A T	Std 5 Day	72h	48h 24h Other
Report: <input type="checkbox"/> Routine <input type="checkbox"/> Level 2 <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 <input checked="" type="checkbox"/> EDD			
Special Instructions / Comments:			
GLOBAL ID#			

1) Relinquished by: Signature: [Signature] Time: 14:05 Printed Name: [Signature] Date: 1/30/04 Company: ETIC	2) Relinquished by: Signature: _____ Time: _____ Printed Name: _____ Date: _____ Company: _____	3) Relinquished by: Signature: _____ Time: _____ Printed Name: _____ Date: _____ Company: _____
1) Received by: Signature: _____ Time: _____ Printed Name: _____ Date: _____ Company: _____	2) Received by: Signature: _____ Time: _____ Printed Name: _____ Date: _____ Company: _____	3) Received by: Signature: [Signature] Time: 14:05 Printed Name: M-VILLANUEVA Date: 01/30/04 Company: STL SF

STL San Francisco

Sample Receipt Checklist

Submission #: 2004- 01 - 0827

Checklist completed by: (initials) DSH Date: 01/31/04

Courier name: STL San Francisco Client _____

Custody seals intact on shipping container/samples

Yes ___ No ___ Not Present

Chain of custody present?

Yes No ___

Chain of custody signed when relinquished and received?

Yes No ___

Chain of custody agrees with sample labels?

Yes No ___

Samples in proper container/bottle?

Yes No ___

Sample containers intact?

Yes No ___

Sufficient sample volume for indicated test?

Yes No ___

All samples received within holding time?

Yes No ___

Container/Temp Blank temperature in compliance ($4^{\circ}C \pm 2$)?

Temp: 6.0 °C Yes No ___

Ice Present Yes No ___

Water - VOA vials have zero headspace?

No VOA vials submitted Yes No ___

(if bubble is present, refer to approximate bubble size and itemize in comments as S (small ~O), M (medium ~ O) or L (large ~ O))

Water - pH acceptable upon receipt? Yes No

pH adjusted- Preservative used: HNO₃ HCl H₂SO₄ NaOH ZnOAc -Lot #(s) _____

For any item check-listed "No", provided detail of discrepancy in comment section below:

Comments: _____

Project Management [Routing for instruction of indicated discrepancy(ies)]

Project Manager: (initials) _____ Date: _____/_____/04

Client contacted: Yes No

Summary of discussion: _____

Corrective Action (per PM/Client): _____

