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Alameda County
Environmental Health

May 11, 2009

Mr. Jerry Wickham, P.G.
Alameda County Health Care Services Agency
Environmental Health Services
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

Subject: Submittal of *First Quarter 2009 Groundwater Monitoring Report*
Former Regal Station #120, LOP Case No. RO0002875
3875 Telegraph Avenue, Oakland, California

Dear Mr. Wickham:

Pursuant to your request, please find attached the *First Quarter 2009 Groundwater Monitoring Report* ("Quarterly Report"), prepared by West Environmental Services & Technology, Inc. (WEST) on behalf of Wickland Corporation (Wickland) for the former Regal Station #120 (Local Oversight Program Case No. RO0002875), located at 3875 Telegraph Avenue in Oakland, California.

In accordance with the Alameda County Health Care Services Agency, Environmental Health Services requirements, I declare under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge.

Please contact me at 916/978-2460, if you have any questions or wish to discuss this further.

Sincerely,

Daniel E. Hall
President

Attachment

cc: Lori J. Gualco, Attorney-at-Law

**FIRST QUARTER 2009
GROUNDWATER MONITORING REPORT
Former Regal Station #120
LOP Case No. RO0002875
3875 Telegraph Avenue
Oakland, California**

May 2009

Prepared for

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Prepared by



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SIGNATURE PAGE

All engineering information, conclusions and recommendations contained in this report have been prepared by a California Professional Engineer. All hydrogeologic and geologic information, conclusions and recommendations contained in this report have been prepared by a California Professional Geologist.



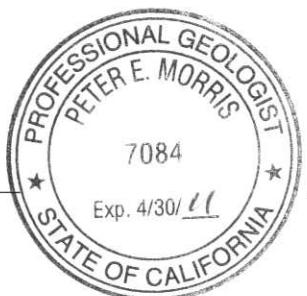
Peter M. Krasnoff
California Registered Civil Engineer (44031)



5/2009
Date



Peter E. Morris
California Professional Geologist (7084)



5/2009
Date

1.0 INTRODUCTION

This *First Quarter 2009 Groundwater Monitoring Report* (“*Quarterly Report*”) has been prepared by West Environmental Services & Technology, Inc., (WEST) for the former Regal Station #120, located at 3875 Telegraph Avenue in Oakland, California (“the Site;” Figure 1-1). This *Quarterly Report* presents the results of groundwater monitoring activities performed at the Site during the First Quarter 2009, i.e., January to March 2009.

Groundwater monitoring was conducted during the First Quarter 2009 in accordance with the procedures outlined in the *Preliminary Site Assessment/Soil, Soil Gas and Groundwater Investigation Work Plan* (WEST, 2007a) and *Addendum* (WEST, 2007b; “*Work Plan*”), as requested by the Alameda County Health Care Services Agency (ACEH, 2008). This *Quarterly Report* also presents a summary of the work to be performed during the Second Quarter 2009.

1.1 BACKGROUND

The approximately 0.9-acre Site is located at 3875 Telegraph Avenue in Oakland, California to the east of the Bay Area Rapid Transit District (BART) MacArthur Station parking lot. Between 1928 and 1935, Associated Oil Company was a tenant on the Site (Fidelity, 2007). In the 1930s, the Site was used for: an automobile parking lot; and two gasoline stations near the southwest corner (3855 Telegraph Avenue) and the northern portion (3881 Telegraph Avenue) of the Site (Figure 2-1; HLA, 1992). By the 1940s, the two gasoline stations had been removed.

In the 1950s, the southern portion of the Site was occupied by a tamale factory and restaurant; and the northern portion was occupied by another gasoline service station. Features of the gasoline service station included: a service station building; pump islands; a cashier’s office; and two 200-gallon underground storage tanks (USTs) and one 400-gallon UST. Between 1961 and 1971, Regal Petroleum Corporation leased the northern portion of the Site and operated the gasoline service station. Between approximately 1971 and 1984, Wickland operated the gasoline

service station on the northern portion of the Site. In the mid-1970s, permits were issued for: one 8,000-gallon UST; one 5,000-gallon UST; one 2,500-gallon UST; and one 10,000-gallon UST, at the Site.

In June 1984, as part of pre-construction evaluations, Harding Lawson Associates (HLA) drilled four borings for collection of soil samples for geotechnical testing. HLA noted the soil cores collected from approximately 15 feet below ground surface contained “gasoline odor.” In December 1984, the four USTs, associated service station buildings and pump islands were removed (HLA, 1992). Prior to their removal, the four USTs were reportedly pressure tested (HLA, 1992). The findings of the pressure testing indicated that the USTs were integral, i.e., capable of handling the applied pressure without indication of leakage. Following removal of the USTs, the excavation was backfilled with imported material.

In early 1985, the Site was purchased by East Bay Outpatient Surgery for development as a surgery center. In May 1985, as part of the surgery center construction, the UST excavation backfill material was removed. The former UST excavation was subsequently over-excavated to a depth of approximately 15 feet below ground surface with approximately 1,070 cubic yards of soil removed for offsite disposal.

Investigations have been conducted at and near the Site since 2001. The investigations revealed indications of separate releases of petroleum hydrocarbons downgradient and upgradient of the Site (WEST, 2008). Soil investigations reported the presence of total petroleum hydrocarbons (TPH) up to 90 milligrams per kilogram (mg/kg) onsite (boring B-4) and up to 2,700 mg/kg in samples collected offsite in the BART parking lot (boring B-16; Table 1-1). Groundwater samples collected from temporary wells revealed the presence of TPH as gasoline (TPHg) up to 140,000 micrograms per liter ($\mu\text{g/l}$) in samples from onsite boring B-4 and offsite up to 280,000 $\mu\text{g/l}$ in samples collected from the BART parking lot boring B-16 (Table 1-2). The investigations also revealed the presence of TPH as diesel (TPHd) up to 530,000 $\mu\text{g/l}$ in the sample collected upgradient of the Site within 39th Street.

In March and April of 2008, WEST conducted soil, soil gas and groundwater investigations. The investigations revealed: the presence of benzene and methyl tertiary butyl ether (MTBE) in groundwater downgradient of the former USTs excavation; contributions of TPH to groundwater attributable to upgradient and offsite sources; and contributions of chlorinated volatile organic compounds (CVOCs) attributed to upgradient offsite sources (Tables 1-1 to 1-3).

Pursuant to a request from the ACEH, quarterly groundwater monitoring activities were conducted during the First Quarter 2009 in accordance with the *Work Plan* (ACEH, 2008).

2.0 GROUNDWATER MONITORING

2.1 PREVIOUS GROUNDWATER INVESTIGATIONS

Groundwater investigations were conducted at the Site in March, April, October and December 2008. Four permanent groundwater monitoring wells, MW-1, MW-2, MW-3 and MW-4, were installed at the Site in March 2008 (Figure 2-1). A summary of the groundwater monitoring well construction details and the groundwater elevations are presented in Tables 2-1 and 2-2. Sampling of the four groundwater monitoring wells was conducted at the Site on April 24, 2008, October 2, 2008, and December 23, 2008 in accordance with the *Work Plan*. A summary of the groundwater analytical results is presented in Table 2-3.

2.2 FIRST QUARTER 2009 ACTIVITIES

Groundwater monitoring activities were conducted during the First Quarter 2009 in accordance with the procedures outlined in the *Work Plan*. The First Quarter 2009 activities included:

- Measurement of depth to groundwater in monitoring wells MW-1, MW-2, MW-3 and MW-4; and
- Collection of groundwater samples from monitoring wells MW-1, MW-2, MW-3 and MW-4.

2.2.1 Depth to Groundwater Measurement

Prior to groundwater sampling, depth to groundwater measurements were collected from monitoring wells MW-1, MW-2, MW-3 and MW-4. The depth to groundwater was measured in the monitoring wells in accordance with the procedures outlined in the *Work Plan*.

The depths to groundwater measurements are summarized in Table 2-2. During the First Quarter 2009, the depth to groundwater measurements in the monitoring wells ranged from 12.92 feet

below ground surface (MW-3) to 14.10 feet below ground surface (MW-2). Groundwater elevations in the monitoring wells ranged from 65.12 feet above Mean Sea Level (MW-2) to 67.37 feet above Mean Sea Level (MW-4). Based on the First Quarter 2009 groundwater elevations, the groundwater flow direction was estimated to the southwest with a hydraulic gradient of approximately 0.012 feet per foot (Figure 2-2).

2.2.2 Groundwater Sampling

Groundwater samples were collected from monitoring wells MW-1, MW-2, MW-3 and MW-4 on March 21, 2009 using low-flow sampling techniques (USEPA, 1996). Prior to sampling, water within the well casings was purged for a minimum of 15 minutes. Groundwater parameter data including: temperature; pH; electrical conductivity; turbidity; and dissolved oxygen (DO) were measured during well purging to monitor stability of parameters and recorded on groundwater sampling field data sheets. Copies of the groundwater sampling field data sheets are included in Appendix A.

Groundwater samples were collected once the indicator parameters collected during purging had stabilized for three consecutive readings, as follows: plus/minus 0.1 Standard Units (S.U.) for pH; plus/minus three percent for specific conductance; and plus/minus 10 percent for turbidity and DO (USEPA, 1996).

Following purging, the groundwater samples were collected into laboratory supplied zero headspace 40-milliliter glass volatile organic analysis (VOA) vials preserved with hydrochloric acid and an unpreserved one-liter amber glass bottle. Following sample collection, the samples were labeled, placed in a chilled cooler and transported to K Prime, Inc, a California Department of Public Health (CDPH), Environmental Laboratory Accreditation Program (ELAP) certified laboratory pursuant to ASTM D4840 chain-of-custody protocols. The groundwater samples and a laboratory-prepared travel blank were submitted to K Prime, Inc. of Santa Rosa, California. The groundwater samples were analyzed for: TPHg and TPHd by United States Environmental

Protection Agency (USEPA) Method 8015M; petroleum related VOCs, including MTBE and CVOCs by USEPA Method 8260B. The analytical results for the groundwater samples are summarized in Table 2-3 and depicted on Figure 2-3. Copies of laboratory data certificates and chain-of-custody forms are included in Appendix B.

2.2.3 Analytical Results

Laboratory analysis of groundwater samples collected from monitoring wells MW-1, MW-2, MW-3 and MW-4 did not reveal the presence of MTBE above the laboratory-reporting limit ranging from 0.500 µg/l to 4.00 µg/l. Laboratory analysis of the groundwater samples revealed the highest concentrations of petroleum hydrocarbons in the sample collected from monitoring well MW-4 with: TPHg at 5,690 µg/l; TPHd at 969 µg/l. Laboratory analysis of groundwater samples collected from the upgradient monitoring well, MW-1, revealed: tetrachloroethene (PCE) at 13.9 µg/l; trichloroethene (TCE) at 5.97 µg/l; cis-1,2-dicholorethene (DCE) at 16.2 µg/l; and perchloromethane (PCM) at 0.610 µg/l.

Laboratory analysis of groundwater samples collected from the downgradient monitoring well, MW-2, revealed: TPHg at 5,070 µg/l; TPHd at 623 µg/l; benzene at 398 µg/l; toluene at 27.6 µg/l; ethyl benzene at 322 µg/l; and xylenes at 127.7 µg/l. Laboratory analysis of groundwater samples collected from the cross-gradient monitoring well, MW-3, revealed: TPHg at 597 µg/l; TPHd at 200 µg/l and ethyl benzene at 34.9 µg/l. A summary of the groundwater sample analytical results is presented in Table 2-3 and depicted on Figure 2-3. An iso-concentration plot of benzene in groundwater is depicted on Figure 2-4.

2.2.4 Waste Management

Purge water generated during the groundwater monitoring activities was containerized in a United States Department of Transportation-approved, United Nations-tested 1A2 open-top steel

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3875 TELEGRAPH AVENUE
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drum and stored in a secure area. The purge water will be transported offsite under a bill-of-lading for disposal pending waste profile acceptance from an appropriate disposal facility.

3.0 ANTICIPATED ACTIVITIES FOR THE SECOND QUARTER 2009

The First Quarter 2009 groundwater monitoring results revealed the presence of petroleum hydrocarbons. Based on the findings from the First Quarter 2009 groundwater monitoring event, it appears that the downgradient extent of petroleum hydrocarbons in groundwater has not been delineated. Therefore, the offsite delineation activities proposed in the *Work Plan* should be conducted to complete the downgradient delineation of petroleum hydrocarbons in groundwater.

Activities for the Second Quarter 2009 will include sampling of the four existing groundwater monitoring wells, MW-1, MW-2, MW-3 and MW-4. The groundwater monitoring well sampling will include: depth to groundwater measurements; and collection of groundwater samples from monitoring wells MW-1, MW-2, MW-3 and MW-4. WEST, pending approval of the access permit from BART, also anticipates completion during the Second Quarter 2009 of the offsite soil and groundwater investigation within BART MacArthur Station parking lot, as outlined in the *Work Plan*.

4.0 REFERENCES

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WEST, *Addendum to Preliminary Site Assessment/Soil, Soil Gas and Groundwater Investigation Work Plan, Former Regal Station #120, 3875 Telegraph Avenue, Oakland, California*, October 2007 (WEST, 2007b).

WEST, *Preliminary Investigation and Evaluation Report, Former Regal Station #120, 3875 Telegraph Avenue, Oakland, California*, May 2008 (WEST, 2008).

5.0 DISTRIBUTION LIST

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TABLE 1-1
SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS
3875 Telegraph Avenue
Oakland, California

Location	Sample ID	Date	Depth (ft)	Petroleum Hydrocarbons			Volatile Organic Compounds																
				TPHg	TPHd	TPHmo	Benzene	Toluene	Ethyl benzene	Xylenes	MTBE	1,2,4-TMB	1,3,5-TMB	n-Butyl benzene	sec-Butyl benzene	tert-Butyl benzene	Isopropyl benzene	p-Isopropyl toluene	Naphthalene	n-Propyl benzene	1,2,3-TCB	1,2,4-TCB	
				(mg/kg)	(mg/kg)	(mg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)		
<i>Terracon</i>																							
Onsite	B-1	8/28/01	15	--	--	--	420	86	4,700	16,500	--	10,000	3,500	1,400	350	ND	630	160	1,700	2,300	ND	ND	
	B-2		19.5	--	--	--	ND	ND	9,600	2,000	--	22,000	12,000	6,800	2,000	ND	3,800	1,000	4,200	14,000	ND	ND	
	B-3		15.5	--	--	--	ND	ND	ND	ND	--	ND	ND	23	10	ND	8.2	ND	ND	32	6.6	7.3	
	B-4		14.5	--	--	--	ND	ND	45	320	--	ND	ND	370	870	61	1,500	41	ND	5,400	ND	ND	
	B-5		21.5	--	--	--	ND	ND	ND	ND	--	ND	ND	22	19	ND	ND	ND	ND	15	ND	ND	
	B-6		11.5	--	--	--	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
<i>Gribi</i>																							
BART Parking Lot	B-1	1/8/05	7.5	<0.5	--	--	<5.0	<5.0	<5.0	<10	<20	--	--	--	--	--	--	--	--	--	--	--	
			11.5	<0.5	--	--	<5.0	<5.0	<5.0	<10	<20	--	--	--	--	--	--	--	--	--	--	--	
			13	18.0	--	--	<5.0	14	120	27	120	--	--	--	--	--	--	--	--	--	--	--	
			15	0.77	--	--	<5.0	<5.0	<5.0	<10	<20	--	--	--	--	--	--	--	--	--	--	--	
			16	4.4	--	--	<5.0	13	26	<10	30	--	--	--	--	--	--	--	--	--	--	--	
			7	190	--	--	<5.0	710	4,100	7,800	200	--	--	--	--	--	--	--	--	--	--	--	
	B-2		14	670	190	--	440	<5.0	140	410	200	--	--	--	--	--	--	--	--	--	--	--	
			7.5	65	--	--	75	52	500	212	220	--	--	--	--	--	--	--	--	--	--	--	
			11.5	170	--	--	<5.0	1,800	2,800	14,800	370	--	--	--	--	--	--	--	--	--	--	--	
			15	5	--	--	130	8.4	20	78	<20	--	--	--	--	--	--	--	--	--	--	--	
Onsite	B-4		7.5	<0.5	--	--	<5.0	<5.0	<5.0	<10	<20	--	--	--	--	--	--	--	--	--	--	--	
			11.5	<0.5	<10	--	<5.0	<5.0	<5.0	<10	<20	--	--	--	--	--	--	--	--	--	--	--	
			15	39.0	--	--	630	<5.0	1,500	3,600	58	--	--	--	--	--	--	--	--	--	--	--	
			19.5	90.0	--	--	1,400	1,100	2,000	9,300	180	--	--	--	--	--	--	--	--	--	--	--	
			7.5	1.4	<10	--	<5.0	<5.0	<5.0	<10	<20	--	--	--	--	--	--	--	--	--	--	--	
			11.5	<0.5	--	--	<5.0	<5.0	<5.0	<10	<20	--	--	--	--	--	--	--	--	--	--	--	
	B-5		15.5	16.0	--	--	<5.0	<5.0	54	<10	<20	--	--	--	--	--	--	--	--	--	--	--	
			19.5	1.1	--	--	<5.0	<5.0	13	20	<20	--	--	--	--	--	--	--	--	--	--	--	
<i>BART</i>																							
3901 Telegraph	B-4	2/05	5	<1.1	9.3	55	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	
			10	<1.1	1.0	<5.0	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	
Apgar Street	B-5	2/05	5	<1.1	33	210	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	
			10	<1.0	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
			17	<1.0	51	5.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
3801 Telegraph	B-6	2/05	5	<0.99	1.8	<5.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
			10	<1.0	1.1	<5.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
BART Central Parking	B-16	2/05	2	<1.0	19	140	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	
			5	2,700	240	<25	5,700	26,000	49,000	150,000	<1,000	--	--	--	--	--	--	--	--	--	--	--	
	B-20		2	--	10	110	--	--	--	--													

TABLE 1-1
SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS
3875 Telegraph Avenue
Oakland, California

Location	Sample ID	Date	Depth (ft)	Petroleum Hydrocarbons			Volatile Organic Compounds													
				TPHg	TPHd	TPHmo	Benzene	Toluene	Ethyl benzene	Xylenes	MTBE	1,2,4-TMB	1,3,5-TMB	n-Butyl benzene	sec-Butyl benzene	tert-Butyl benzene	Isopropyl benzene	p-Isopropyl toluene	Naphthalene	n-Propyl benzene
				(mg/kg)	(mg/kg)	(mg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
<i>WEST</i>																				
Onsite	W-1	3/29/08	6	<1.00	<10.0	--	<1.49	<1.49	<1.49	<1.49	<1.49	--	--	--	--	--	--	--	--	
			10	<1.00	<10.0	--	<1.49	<1.49	<1.49	<1.49	<1.49	--	--	--	--	--	--	--	--	
			17	40.0	<10.0	--	337	<200	<200	<200	<200	--	--	--	--	--	--	--	--	
	W-2	3/29/08	8	<1.00	<10.0	--	<1.50	<1.50	<1.50	<1.50	<1.50	--	--	--	--	--	--	--	--	
			14	286	<10.0	--	<500	<500	<500	<500	<500	--	--	--	--	--	--	--	--	
	W-3	3/29/08	7	<1.00	<10.0	--	<1.50	<1.50	<1.50	<1.50	<1.50	--	--	--	--	--	--	--	--	
			15	2.79	<10.0	--	<1.50	<1.50	<1.50	<1.50	<1.50	--	--	--	--	--	--	--	--	
	W-5	3/29/08	6	<1.00	<10.0	--	<1.49	<1.49	<1.49	<1.49	<1.49	--	--	--	--	--	--	--	--	
			9.5	<1.00	<10.0	--	<1.51	<1.51	<1.51	<1.51	<1.51	--	--	--	--	--	--	--	--	
			15	99.6	<10.0	--	<200	<200	<200	<200	<200	--	--	--	--	--	--	--	--	
	W-9/ MW4	3/29/08	7	<1.00	<10.0	--	<1.50	<1.50	<1.50	<1.50	<1.50	--	--	--	--	--	--	--	--	
			10	<1.00	<10.0	--	<1.50	<1.50	<1.50	<1.50	<1.50	--	--	--	--	--	--	--	--	
			13	<1.00	<10.0	--	<200	<200	<200	<200	<200	--	--	--	--	--	--	--	--	
	W-10	5/1/08	5	<1.00	<10.0	--	<1.49	<1.49	<1.49	<1.49	<1.49	--	--	--	--	--	--	--	--	
			10	<1.00	<10.0	--	<1.51	<1.51	<1.51	<1.51	<1.51	--	--	--	--	--	--	--	--	
			15	5.23	<10.0	--	<200	993	1560	<200	<200	--	--	--	--	--	--	--	--	
	W-11	5/1/08	4	<1.00	<10.0	--	<1.49	<1.49	<1.49	<1.49	<1.49	--	--	--	--	--	--	--	--	
			10	<1.00	<10.0	--	<1.51	<1.51	<1.51	<1.51	<1.51	--	--	--	--	--	--	--	--	
			16	<1.00	<10.0	--	<1.51	<1.51	<1.51	<1.51	<1.51	--	--	--	--	--	--	--	--	
MW1	3/29/08	14	6.10	41.6	--	<200	<200	<200	<200	<200	--	--	--	--	--	--	--	--	--	

Notes:

mg/kg: Milligrams per kilogram

µg/kg: Micrograms per kilogram

<1.0: Less than the method detection limit

-- not analyzed

TPHg: Total Petroleum Hydrocarbons as Gasoline

TPHd: Total Petroleum Hydrocarbons as Diesel

TPHmo: Total Petroleum Hydrocarbons as Motor Oil

MTBE: Methyl Tertiary Butyl Ether

PCE: Tetrachloroethene

TCE: Trichloroethene

DCE: Dichloroethene

TABLE 1-2
SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
3875 Telegraph Avenue
Oakland, California

Location	Sample ID	Date	Depth (ft)	Petroleum Hydrocarbons			Petroleum-Related VOCs												Chlorinated VOCs					
				TPHg	TPHd	TPHmo	Benzene	Toluene	Ethyl benzene	Xylenes	MTBE	1,2,4-TMB	1,3,5-TMB	n-Butyl benzene	sec-Butyl benzene	Isopropyl benzene	4-Isopropyl toluene	Naphthalene	n-Propyl benzene	PCE	TCE	cis-1,2-DCE	1,2-DCA	
				(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	
<i>Terracon</i>																								
Onsite	B-1	8/28/01	--	--	--	--	11,000	760	2,600	9,300	--	2,300	600	ND	ND	ND	ND	640	560	ND	--	--	--	
	B-2	8/28/01	--	--	--	--	30	ND	100	162	--	57	10	ND	ND	ND	21	20	39	ND	--	--	--	
	B-3	8/28/01	--	--	--	--	ND	ND	310	74	--	100	120	ND	23	74	ND	90	230	ND	--	--	--	
	B-4	8/28/01	--	--	--	--	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	ND	6.4	ND	--	--	--	
	B-5	8/28/01	--	--	--	--	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	6.2	ND	7.3	ND	--	--	--	
	B-6	8/28/01	--	--	--	--	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	
<i>Gribi</i>																								
BART Parking Lot	B-1	1/8/05	--	240	--	--	<1.0	<1.0	9.1	<2.0	<4.0	--	--	--	--	--	--	--	--	--	--	--	--	
	B-2	1/8/05	--	14,000	--	--	220	<1.0	380	540	34	--	--	--	--	--	--	--	--	--	--	--	--	
	B-3	1/8/05	--	80,000	--	--	3,800	1,700	5,400	21,800	<100	--	--	--	--	--	--	--	--	--	--	--	--	
Onsite	B-4	1/8/05	--	140,000	--	--	21,000	1,700	8,500	33,600	<4.0	--	--	--	--	--	--	--	--	--	--	--	--	
	B-5	1/8/05	--	130,000	--	--	<1.0	<1.0	8,000	6,680	390	--	--	--	--	--	--	--	--	--	--	--	--	
<i>BART</i>																								
3931 Telegraph	B-1	2/05	--	--	--	--	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
3915 Telegraph	B-3	2/05	--	--	--	--	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
3901 Telegraph	B-4	2/05	--	33,000	--	39,000	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
Apgar Street	B-5	2/05	--	23,000	4,800	<300	340	78	940	2,540	<71	980	320	<71	<71	72	<71	160	250	<71	<71	<71	<71	
3801 Telegraph	B-6	2/05	--	2,200	680	<300	11	<5.0	56	129	<5.0	91	21	13	6.7	14	<5.0	24	44	<5.0	<5.0	<5.0	<5.0	
	B-8	2/05	--	5,300	2,400	<300	69	<0.5	100	10	<2.0	--	--	--	--	--	--	--	--	<2.0	<2.0	<2.0	<2.0	
MacArthur Blvd	B-9	2/05	--	920	2,500	<300	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
	B-10	2/05	--	270	260	<300	<5.0	<5.0	<5.0	<5.0	<5.0	9.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	B-11	6/05	--	--	<300	--	<5.0	2700	--	<5.0	--	--	--	--	--	--	--	--	<5.0	<5.0	<5.0	<5.0	<5.0	
BART South Parking	B-12	2/05	--	<50	<50	<300	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
	B-13	2/05	--	--	620	670	20	<5.0	65	42	<5.0	78	22	<5.0	<5.0	11	<5.0	29	30	<5.0	<5.0	<5.0	<5.0	<5.0
	B-15	2/05	--	--	2,900	12,000	9.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
BART Central Parking	B-16	2/05	--	280,000	--	<15,000	47,000	48,000	6,500	34,300	<4,200	6,200	<4,200	<4,200	<4,200	<4,200	<4,200	<4,200	<4,200	<4,200	<4,200	<4,200	<4,200	
	B-16A	6/05	--	4,300	--	--	19	25	170	400	--	--	--	--	--	--	--	--	--	--	--	--	--	
	B-16B	6/05	--	20,000	--	--	560	21	800	1,500	--	--	--	--	--	--	--	--	--	--	--	--	--	
	B-17	2/05	--	3,500	900	--	20	<10	150	190	<10	180	61	12	<10	18	<10	24	58	<10	<10	<10	<10	
	B-18	2/05	--	54	2,200	20,000	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
	B-20	2/05	--	680	<300	290	<20	40	<20	<20	50	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	
	B-21	2/05	--	4,600	2,600	<300	<10	<10	40	33	<10	40	21	60	29	28	<10	22	150	<10	<10	<10	<10	
	B-22	2/05	--	2,600	970	<300	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
	B-24	2/05	--	--	--	--	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
	B-25	2/05	--	700	2,500	5,300	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	8.2	6.2	<5.0	<5.0	14	<5.0	<5.0	
3501 MacArthur	B-33	2/05	--	<50	710	<300	<5.0	<5.0	70	266	<5.0	190	56	16	6	11	<5.0	52	40	<5.0	<5.0	<5.0	<5.0	

TABLE 1-2
SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
3875 Telegraph Avenue
Oakland, California

Location	Sample ID	Date	Depth (ft)	Petroleum Hydrocarbons			Petroleum-Related VOCs												Chlorinated VOCs					
				TPHg	TPHd	TPHmo	Benzene	Toluene	Ethyl benzene	Xylenes	MTBE	1,2,4-TMB	1,3,5-TMB	n-Butyl benzene	sec-Butyl benzene	Isopropyl benzene	4-Isopropyl toluene	Naphthalene	n-Propyl benzene	PCE	TCE	cis-1,2-DCE	1,2-DCA	
				(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	
<i>WEST</i>																								
Onsite	W-1	3/29/08	20	759	585	--	70.2	<1.00	9.74	<1.00	5.91	<1.00	<1.00	4.70	2.58	9.45	<1.00	<2.00	28.1	<1.00	<1.00	1.05	<1.00	
			30	636	109	--	20.2	<1.00	4.28	<1.00	5.72	<1.00	<1.00	4.72	2.43	5.90	<1.00	<2.00	20.2	<1.00	<1.00	1.19	<1.00	
	W-2	3/29/08	30	2,430	1,120	--	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	4.51	<2.00	
	W-3	3/29/08	29	82	<50	--	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	0.610	1.68	0.720	2.05	<0.500
	W-5	3/29/08	22	36,800	2,780	--	<25.0	<25.0	393	<25.0	<25.0	<25.0	<25.0	30.3	<25.0	73.9	<25.0	116	227	<25.0	<25.0	<25.0	<25.0	
	W-9	3/29/08	22	24,000	630	--	<20.0	<20.0	517	62.8	<20.0	960	97.5	294	<20.0	194	29.6	283	776	<20.0	<20.0	<20.0	<20.0	
	W-10	5/1/08	25	440	95	--	<1.00	<1.00	49.2	<1.00	<1.00	14.5	3.79	5.50	<1.00	6.63	<1.00	23.0	24.7	1.90	2.26	6.48	<1.00	
	W-11	5/1/08	25	<50	<50	--	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	0.510	0.550	1.99	1.48	

Notes:

µg/l: micrograms per liter

TPHg: Total Petroleum Hydrocarbons as Gasoline

TPHd: Total Petroleum Hydrocarbons as Diesel

TPHmo: Total Petroleum Hydrocarbons as Motor Oil

MTBE: Methyl Tertiary Butyl Ether

TMB: Trimethylbenzene

PCE: Tetrachloroethene

TCE: Trichloroethene

DCE: Dichloroethene

<1.0: Less than the method detection limit

-- not analyzed

TABLE 1-3
SUMMARY OF SOIL GAS SAMPLE ANALYTICAL RESULTS
3875 Telegraph Avenue
Oakland, California

Sample ID	Date	Depth (ft)	Volatile Organic Compounds						
			Benzene	Toluene	Ethyl benzene	Xylenes	PCE	TCE	TCM
			($\mu\text{g}/\text{m}^3$)						
W-1	3/29/08	7	<16.0	<18.8	<21.7	<21.7	<33.9	<26.9	<24.4
W-3	3/29/08	5	<6.39	<7.54	<8.68	<8.68	<13.6	144	179
W-4	3/29/08	5	<16.0	<18.8	<21.7	<21.7	<33.9	<26.9	150
W-5	3/29/08	5	<63.9	<75.4	<86.8	<86.8	<136	<107	<97.7
W-6	3/29/08	5	<16.0	<18.8	24.3	<21.7	<33.9	<26.9	<24.4
W-7	3/29/08	5	<319	<377	<434	<434	<678	<537	<488
W-9	3/29/08	5	<6.39	<7.54	<8.68	<8.68	<13.6	<10.7	<9.77

Notes:

$\mu\text{g}/\text{m}^3$: micrograms per cubic meter

CHHSLs: California Human Health Screening Levels (January 2005)

ESLs: Environmental Screening Levels (November 2007)

TPHg: Total Petroleum Hydrocarbons as Gasoline

TPHd: Total Petroleum Hydrocarbons as Diesel

TPHmo: Total Petroleum Hydrocarbons as Motor Oil

PCE: Tetrachloroethene

TCE: Trichloroethene

TCM: Trichloromethane

<1.0: Less than the method detection limit

TABLE 2-1
SUMMARY OF GROUNDWATER MONITORING WELL CONSTRUCTION DETAILS
3875 Telegraph Avenue
Oakland, California

Well ID	Date Installed	Monitoring Well Construction Details					
		Well Diameter	Total Depth	Screen Interval	Sand Pack Interval	Bentonite Seal	Grout Seal
		(inches)	(ft bgs)	(ft bgs)	(ft bgs)	(ft bgs)	(ft bgs)
MW-1	3/29/08	1	30	15 to 30	13 to 30	11 to 13	0 to 11
MW-2	3/29/08	1	23	13 to 23	11 to 25	9 to 11	0 to 9
MW-3	3/29/08	1	22	12 to 22	10 to 25	8 to 10	0 to 8
MW-4	3/29/08	0.75	22	12 to 22	10 to 22	2 to 10	0 to 2

Notes:

ft bgs: feet below ground surface

TABLE 2-2
SUMMARY OF GROUNDWATER ELEVATION DATA
3875 Telegraph Avenue
Oakland, California

Well ID	Top of Casing Elevation (ft MSL)	Date	Depth to Water	Groundwater Elevation
			(ft bgs)	(ft MSL)
MW-1	81.22	4/24/08	14.70	66.52
		5/20/08	14.67	66.55
		10/2/08	15.45	65.77
		12/23/08	16.75	64.47
		3/21/09	13.37	67.85
MW-2	79.22	4/24/08	15.00	64.22
		5/20/08	15.21	64.01
		10/2/08	15.79	63.43
		12/23/08	14.08	65.14
		3/21/09	14.10	65.12
MW-3	78.45	4/24/08	13.85	64.60
		5/20/08	14.11	64.34
		10/2/08	14.66	63.79
		12/23/08	12.93	65.52
		3/21/09	12.92	65.53
MW-4	80.54	4/24/08	13.82	66.72
		5/20/08	14.18	66.36
		10/2/08	15.09	65.45
		12/23/08	13.16	67.38
		3/21/09	13.17	67.37

Notes:

ft MSL: feet above Mean Sea Level using North American Vertical Datum of 1988

ft bgs: feet below ground surface

TABLE 2-3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS
3875 Telegraph Avenue
Oakland, California

Well ID	Depth (ft)	Date	Petroleum Hydrocarbons		Petroleum-Related VOCs												CVOCs			
			TPHg	TPHd	Benzene	Toluene	Ethyl benzene	Xylenes	MTBE	tert-Butyl benzene	1,2,4-TMB	1,3,5-TMB	n-Butyl benzene	sec-Butyl benzene	Naphthalene	n-Propyl benzene	PCE	TCE	cis-1,2-DCE	PCM
			(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)
MW-1	15-30	4/24/08	<50	<50	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<1.00	<0.500	8.49	2.55	10.3	<0.500
		10/2/08	<50	65	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<1.00	<0.500	14.9	6.44	20.4	0.540
		12/23/08	<50	<50	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<1.00	<0.500	18.1	6.20	24.5	0.660
		3/21/09	<50	<50	<0.500	<0.500	<0.500	<0.500	0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<1.00	<0.500	13.9	5.97	16.2	0.610
MW-2	13-23	4/24/08	6,140	1,270	391	31.5	366	334.3	<20.0	<20.0	144	31.2	<20.0	<20.0	64	198	<20.0	<20.0	<20.0	<20.0
		10/2/08	4,210	573	423	16	137	91.7	<5.00	<5.00	53.8	14.1	15.9	12.6	37.8	133	<5.00	<5.00	<5.00	<5.00
		12/23/08	4,490	694	336	27.6	148	88.06	<4.00	<4.00	33.8	14.1	27.4	18	48.4	197	<4.00	<4.00	<4.00	<4.00
		3/21/09	5,070	623	398	27.6	322	127.7	<4.00	<4.00	44.2	14.2	17.3	17.8	37.8	213	<4.00	<4.00	<4.00	<4.00
MW-3	12-22	4/24/08	1,730	506	<4.00	<4.00	229	<4.00	<4.00	<4.00	10.1	7.27	7.59	6.02	75	88.7	<4.00	<4.00	<4.00	<4.00
		10/2/08	627	620	1.68	<0.500	67.8	<0.500	<0.500	0.71	2.33	<0.500	2.6	3.54	21.6	36.6	0.51	0.6	2.14	<0.500
		12/23/08	620	554	1.36	<0.500	80.5	<0.500	<0.500	1.03	0.87	6.63	4.75	5.36	11	56.9	<0.500	<0.500	1.26	<0.500
		3/21/09	597	200	<2.00	<2.00	34.9	<2.00	<2.00	<2.00	<2.00	3.88	2.94	4.33	7.72	37.8	<2.00	<2.00	<2.00	<2.00
MW-4	12-22	4/24/08	7,290	2,390	<10.0	<10.0	656	27.7	<10.0	<10.0	101	<10.0	64.1	30.4	341	433	<10.0	<10.0	<10.0	<10.0
		10/2/08	5,800	958	<5.00	<5.00	106	<5.00	<5.00	<5.00	15.3	<5.00	58.5	26	59.9	306	<5.00	<5.00	<5.00	<5.00
		12/23/08	5,470	1,220	<2.50	<2.50	157	3.4	<2.50	<2.50	34.7	7.29	104	34.8	139	397	<2.50	<2.50	<2.50	<2.50
		3/21/09	5,690	969	<5.00	<5.00	163	<5.00	<5.00	<5.00	8.13	<5.00	63.1	28.3	86.5	320	<5.00	<5.00	<5.00	<5.00

Notes:

ft.: feet

µg/l: micrograms per liter

CVOCs: Chlorinated Volatile Organic Compounds

TPHg: Total Petroleum Hydrocarbons as Gasoline

TPHd: Total Petroleum Hydrocarbons as Diesel

MTBE: Methyl Tertiary Butyl Ether

TMB: Trimethylbenzene

PCE: Tetrachloroethene

TCE: Trichloroethene

PCM: Perchloromethane

cis-1,2-DCE: Dichloroethene

<1.0: Less than the laboratory-reporting limit

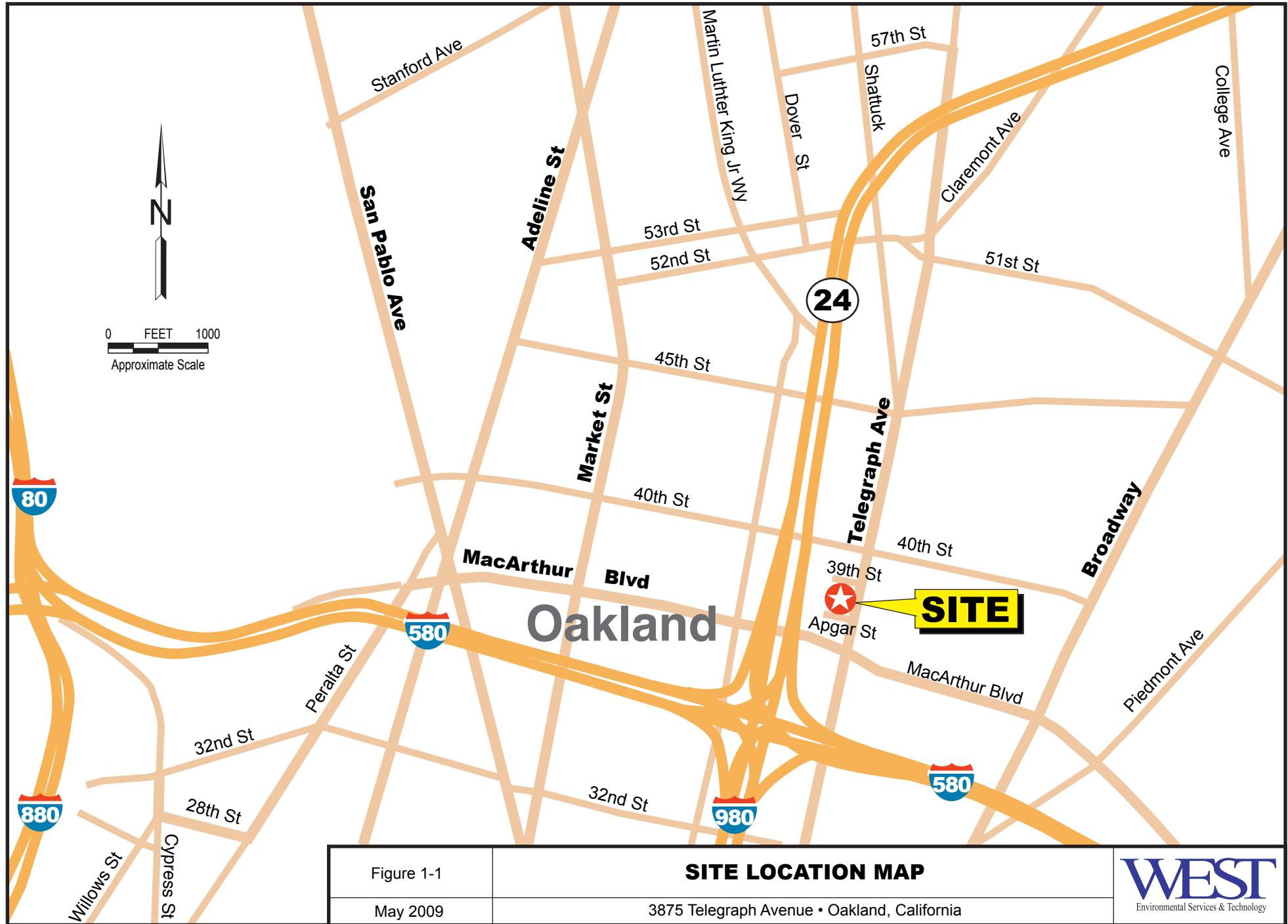


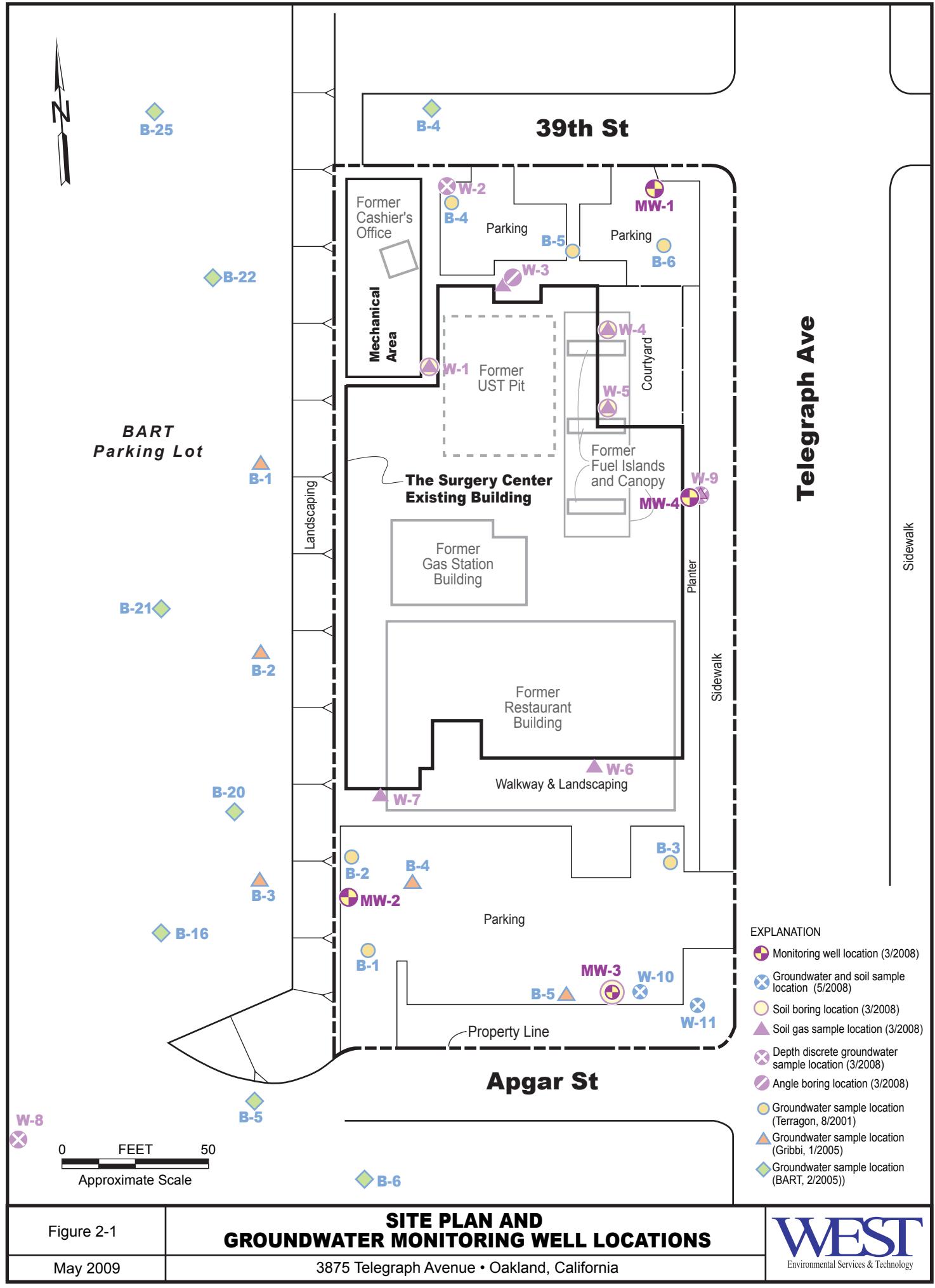
Figure 1-1

SITE LOCATION MAP

May 2009

3875 Telegraph Avenue • Oakland, California

WEST
Environmental Services & Technology



EXPLANATION

Monitoring well location (3/2008)

65.38

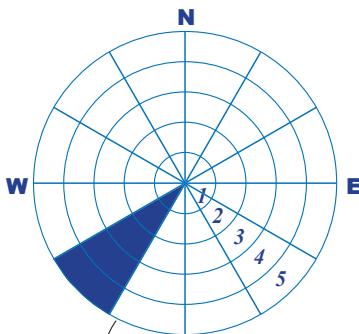
Groundwater elevation
(feet above Mean Sea Level)

66.0

Groundwater elevation contour
(feet above Mean Sea Level).
Dashed where inferred

Hydraulic
Gradient of
0.012 ft/ft

Groundwater Flow Direction
Hydraulic gradient (ft per foot)



Rose diagram depicting
historical groundwater flow
direction and frequency

EXPLANATION

Monitoring well location (3/2008)

Groundwater and soil sample
location (5/2008)

Soil boring location (3/2008)

Soil gas sample location (3/2008)

Depth discrete groundwater
sample location (3/2008)

Angle boring location (3/2008)

Groundwater sample location
(Terragon, 8/2001)

Groundwater sample location
(Gribbi, 1/2005)

Groundwater sample location
(BART, 2/2005)

39th St

67.85

Telegraph Av

Sidewalk

65.5

66.0

67.0

67.5

67.37

67.5

Former
Gas Station
Building

**The Surgery Center
Existing Building**

Former
Restaurant
Building

Walkway & Landscaping

W-6

W-7

W-8

W-9

W-10

W-11

W-12

W-13

W-14

W-15

W-16

W-17

W-18

W-19

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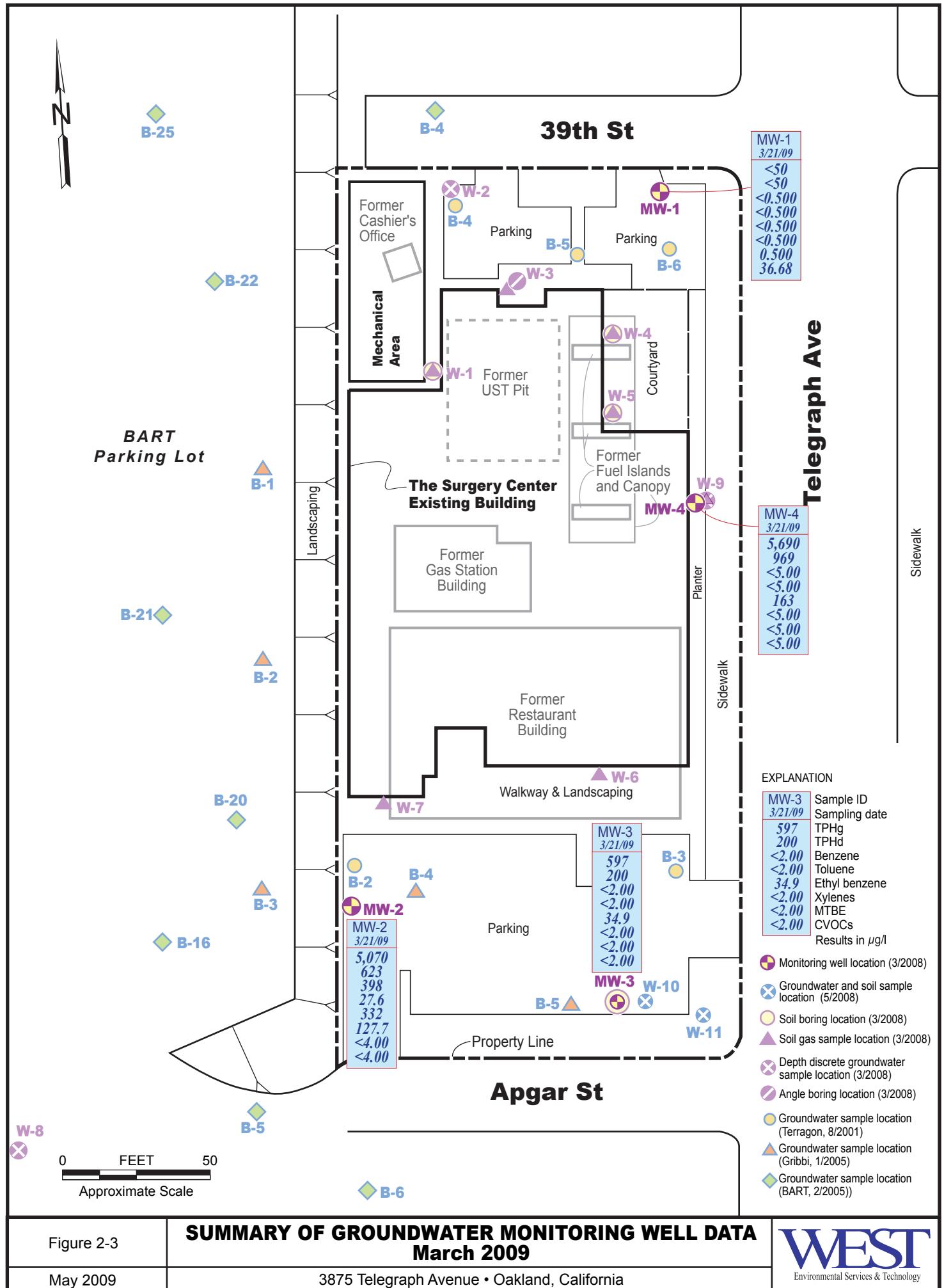


Figure 2-3

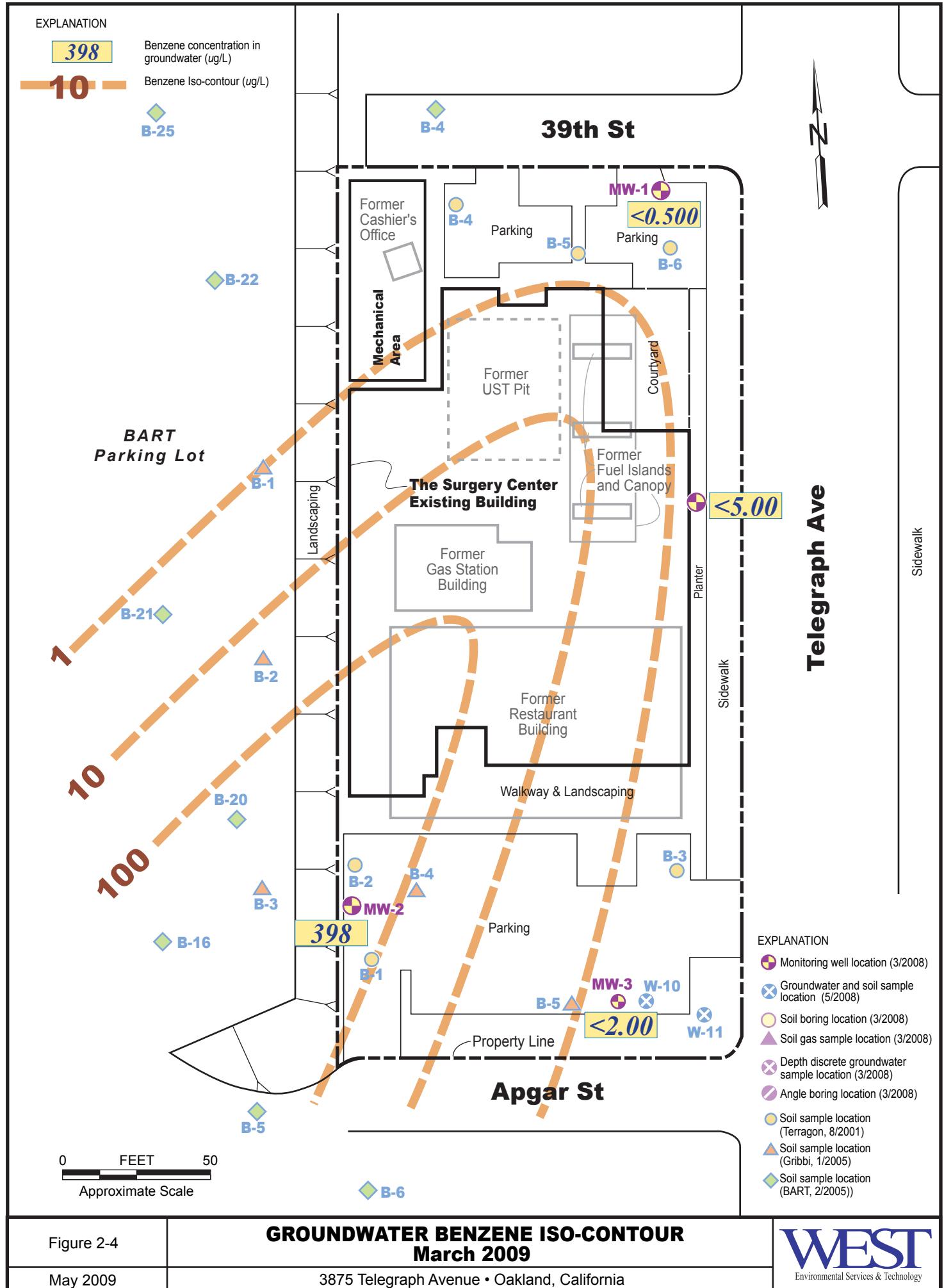
SUMMARY OF GROUNDWATER MONITORING WELL DATA

March 2009

May 2009

3875 Telegraph Avenue • Oakland, California

WEST
Environmental Services & Technology



FIRST QUARTER 2009
GROUNDWATER MONITORING REPORT
FORMER REGAL STATION #120, LOP NO. RO0002875
3875 TELEGRAPH AVENUE
OAKLAND, CALIFORNIA



APPENDIX A

GROUNDWATER MONITORING WELL SAMPLING FIELD SHEETS

GROUND WATER QUALITY SAMPLE COLLECTION FIELD DATA SHEET

Location ID: MW-1

Date: 3/2/109

Sampled By: OZ

Sampling Time: 10:25

Project/Site Name: 3875 Telegraph Ave Project No: Wittlawn, Oakland

Location type: monitoring well, supply well, soil boring, other

Sampling Method: low flow Peristaltic

Weather (Skies, temperature, wind): _____

Well Diameter (in) 1"

Well Elevation (ft) _____

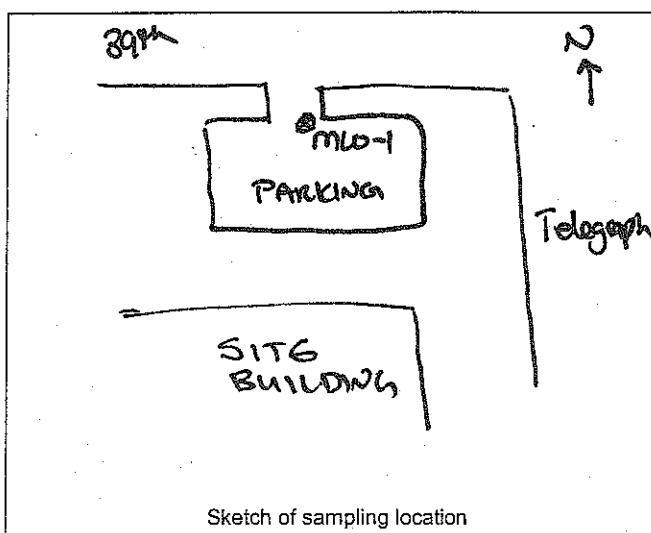
Well Casing Depth (ft) 29.4'

Depth to Water (ft) 13.37'

Standing Water Volume (gal) _____

Purge Rate: (gal/min) _____

Purge Method: Peristaltic
Low Flow



Sketch of sampling location

Observations/Comments: 1 Ambr + 4 Vola

Measurements of Water Levels and Field Parameters:

Time (24 hr)	Depth to Water (ft)	Purge Volume (gal)	Temp (°C)	pH (S.U.)	E. Cond. (µS/cm)	Turbidity (NTUs)	Dissolved Oxygen (%)	Dissolved Oxygen (mg/L)	Remarks
10:04	14.3	0.01	17.1	6.50	591	3.01	14.1	1.27	
10:07	15.95	0.1	17.3	6.80	563	5.98	8.9	0.81	
10:10	16.41	0.2	17.3	6.33	545	5.44	7.6	0.81	
10:13	17.0	0.3	17.3	6.33	540	2.64	7.8	0.74	Pump at slowest
10:18	17.2	0.4	17.1	6.34	528	1.43	7.6	0.73	
10:21	17.55	0.5	17.3	6.39	517	1.53	7.0	0.67	
10:22	17.62	0.6	17.3	6.41	515	1.53	6.9	0.65	

2-inch casing = 0.16 gallons/foot
7.48 gallons per cubic foot

4-inch casing = 0.65 gallons/foot

6 inch casing = 1.47 gallons/foot
GW-Field Data Sht-1_revised.doc

GROUND WATER QUALITY SAMPLE COLLECTION FIELD DATA SHEET

Location ID: MW 2

Date: 3/21/09

Sampled By: JZ

Sampling Time: 11:45

Project/Site Name: 3875 Telegraph Ave Project No: Wickland - Oakland

Location type: monitoring well, supply well, soil boring, other

Sampling Method: Peristaltic flow Flow

Weather (Skies, temperature, wind): _____

Well Diameter (in) 1"

Well Elevation (ft) _____

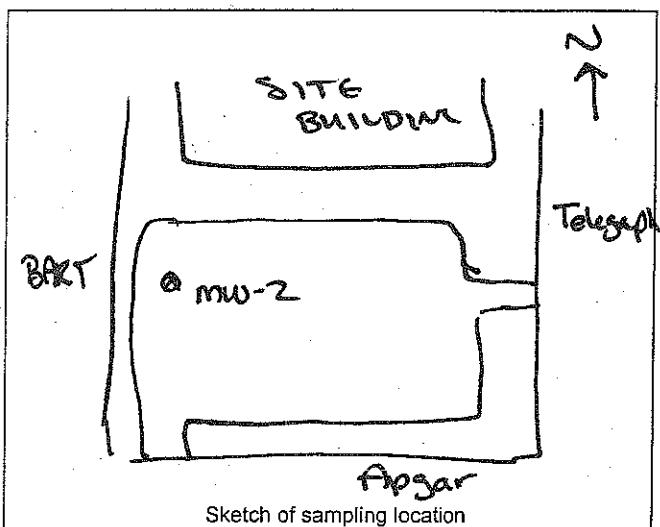
Well Casing Depth (ft) 22.8

Depth to Water (ft) 14.03 14.10

Standing Water Volume (gal) _____

Purge Rate: (gal/min) _____

Purge Method: Low Flow Peristaltic



Observations/Comments: 1st Amter + 400m³

Measurements of Water Levels and Field Parameters:

Time (24 hr)	Depth to Water (ft)	Purge Volume (gal)	Temp (°C)	pH (S.U.)	E. Cond. (µS/cm)	Turbidity (NTUs)	Dissolved Oxygen (%)	Dissolved Oxygen (mg/L)	Remarks
11:30	14.3	0.0	17.4	6.79	537	42.1	10.9	1.02	H/C odor forward
11:33	14.47	0.1	18.3	6.72	523	8.71	8.6	0.84	
11:36	14.50	0.2	18.3	6.74	521	8.27	7.7	0.71	
11:39	14.53	0.3	18.3	6.74	518	5.27	5.27	0.63	turned pump down
11:42	14.50	0.4	18.3	6.74	518	4.05	5.6	0.52	
11:45	14.50	0.5	18.3	6.75	518	3.30	5.0	0.47	

2-inch casing = 0.16 gallons/foot
7.48 gallons per cubic foot

4-inch casing = 0.65 gallons/foot

6 inch casing = 1.47 gallons/foot
GW-Field Data Sht-1_revised.doc

GROUND WATER QUALITY SAMPLE COLLECTION FIELD DATA SHEET

Location ID: MW-3

Date: 3/21/09

Sampled By: JZ

Sampling Time: 11:05

Project/Site Name: 3875 Telegraph Ave Project No: Oakland OAKL2

Location type: monitoring well, supply well, soil boring, other _____

Sampling Method: Low flow Peristaltic

Weather (Skies, temperature, wind): _____

Well Diameter (in) 1"

Well Elevation (ft) _____

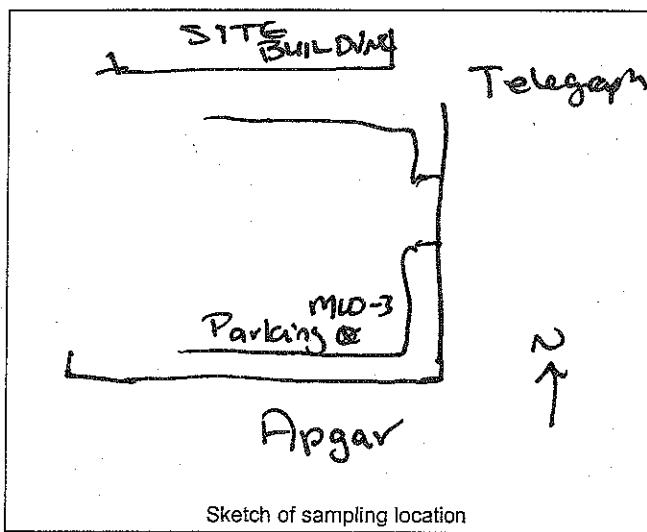
Well Casing Depth (ft) 21.5

Depth to Water (ft) 12.92

Standing Water Volume (gal) _____

Purge Rate: (gal/min) _____

Purge Method: Low flow Peristaltic



Observations/Comments: 1 l Amber i, 4 vials took Duplicate 32109

Time 11:00

Measurements of Water Levels and Field Parameters:

Time (24 hr)	Depth to Water (ft)	Purge Volume (gal)	Temp (°C)	PH (S.U.)	E. Cond. (μS/cm)	Turbidity (NTUs)	Dissolved Oxygen (%)	Dissolved Oxygen (mg/L)	Remarks
10:48	13.10	0.01	14.3	6.72	585	2.14	17.0	1.61	
10:51	14.56	0.10	17.1	6.58	582		10.9	1.06	
10:54	15.14	0.2	17.5	6.58	575	3.93	8.9	0.83	
10:57	16.06	0.3	17.6	6.59	573	2.86	7.3	0.70	
10:00	16.47	0.4	17.5	6.59	574	2.83	6.8	0.65	
11:03	17.41	0.5	17.6	6.62	574	1.66	7.0	0.62	

2-inch casing = 0.16 gallons/foot
7.48 gallons per cubic foot

4-inch casing = 0.65 gallons/foot

6 inch casing = 1.47 gallons/foot
GW-Field Data Sht-1_revised.doc

GROUND WATER QUALITY SAMPLE COLLECTION FIELD DATA SHEET

Location ID: MW-4

Date: 3/21/09

Sampled By: JZ

Sampling Time: 12:20

Project/Site Name: 3875 Telegraph Av Project No: Wickland Oakland

Location type: monitoring well, supply well, soil boring, other

Sampling Method: low flow Peristaltic

Weather (Skies, temperature, wind): _____

Well Diameter (in) 1"

Well Elevation (ft) _____

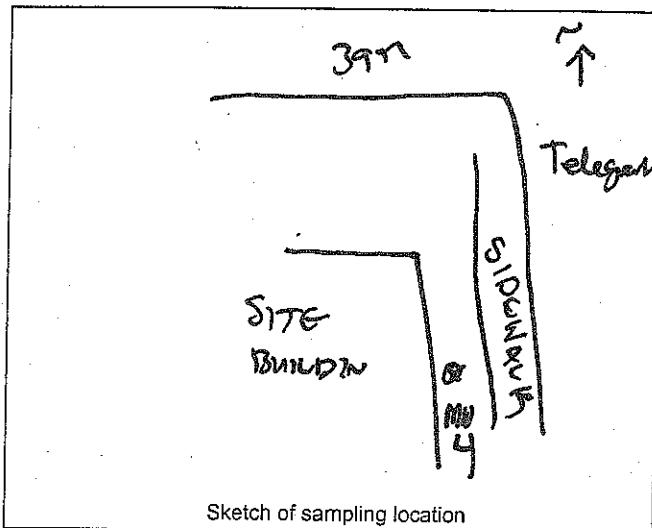
Well Casing Depth (ft) 21.5

Depth to Water (ft) 13.17

Standing Water Volume (gal) _____

Purge Rate: (gal/min) _____

Purge Method: Low Flow Pump



Observations/Comments: 12 amber - 4 yellow

Measurements of Water Levels and Field Parameters:

Time (24 hr)	Depth to Water (ft)	Purge Volume (gal)	Temp (°C)	PH (S.U.)	E. Cond. (μS/cm)	Turbidity (NTUs)	Dissolved Oxygen (%)	Dissolved Oxygen (mg/L)	Remarks
12:02	13.42	0.01	16.8	6.87	418	42.2	9.6	0.90	H/C odor
12:05	13.77	0.1	17.1	6.78	412		8.1	0.79	
12:08	13.91	0.2	17.2	6.76	406	17.5	7.8	0.73	
12:11	13.87	0.3	17.2	6.75	398	16.1	5.8	0.56	
12:14	13.82	0.4	17.3	6.75	394	33.7	5.8	0.56	
12:17	13.82	0.5	17.3	6.76	390	19.7	6.0	0.55	

2-inch casing = 0.16 gallons/foot
7.48 gallons per cubic foot

4-inch casing = 0.65 gallons/foot

6 inch casing = 1.47 gallons/foot
GW-Field Data Sht-1_revised.doc

FIRST QUARTER 2009
GROUNDWATER MONITORING REPORT
FORMER REGAL STATION #120, LOP NO. RO0002875
3875 TELEGRAPH AVENUE
OAKLAND, CALIFORNIA



APPENDIX B
LABORATORY DATA CERTIFICATES
AND CHAIN-OF-CUSTODY FORMS

K PRIME, Inc.

CONSULTING ANALYTICAL CHEMISTS

3621 Westwind Blvd.
Santa Rosa CA 95403
Phone: 707 527 7574
FAX: 707 527 7879

TRANSMITTAL

DATE: 04/06/09

TO: MR. PETER MORRIS
WEST ENVIRONMENTAL S&T
711 GRAND AVENUE, SUITE 220
SAN RAFAEL, CA 94901

ACCT: 9946
PROJ: WICKLAND.OAKLAND

Phone: 415-460-6770
Fax: 415-460-6771
Email: main@w-e-s-t.com

FROM: Richard A. Kagel, Ph.D.
Laboratory Director
*RAG/kagel
4/6/09*

SUBJECT: LABORATORY RESULTS FOR YOUR PROJECT

WICKLAND.OAKLAND

Enclosed please find K Prime's laboratory reports for the following samples:

SAMPLE ID	TYPE	DATE	TIME	KPI LAB #
MW-1	WATER	03/21/09	10:25	75519
MW-2	WATER	03/21/09	11:45	75520
MW-3	WATER	03/21/09	11:05	75521
MW-4	WATER	03/21/09	12:20	75522
TRIP BLANK	WATER	03/21/09	NA	75523

The above listed sample group was received on 03/23/09 and tested as requested on the chain of custody document.

Please call me if you have any questions or need further information.
Thank you for this opportunity to be of service.

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9946
CLIENT PROJECT: WICKLAND.OAKLAND

METHOD: GRO-GASOLINE RANGE ORGANICS
REFERENCE: EPA 8015C

SAMPLE TYPE: WATER
UNITS: mg/L

SAMPLE ID	LAB NO.	DATE SAMPLED	TIME SAMPLED	BATCH ID	DATE ANALYZED	MRL	SAMPLE CONC	GRO PATTERN
MW-1	75519	03/21/09	10:25	033109W1	03/30/09	0.050	ND	
MW-2	75520	03/21/09	11:45	033109W1	03/30/09	0.050	5.07	
MW-3	75521	03/21/09	11:05	033109W1	03/30/09	0.050	0.597	
MW-4	75522	03/21/09	12:20	033109W1	03/30/09	0.050	5.69	

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED METHOD REPORTING LIMIT

NA - NOT APPLICABLE OR AVAILABLE

MRL - METHOD REPORTING LIMIT

AE - UNKNOWN HYDROCARBON WITH A SINGLE PEAK

AN - UNKNOWN HYDROCARBON WITH SEVERAL PEAKS

AS - HEAVIER HYDROCARBON THAN GASOLINE CONTRIBUTING TO GRO VALUE

CO - HYDROCARBON RESPONSE IN GASOLINE RANGE BUT DOES NOT RESEMBLE GASOLINE

APPROVED BY: CH
DATE: 4/6/09

K PRIME, INC.
LABORATORY QUALITY CONTROL REPORT

METHOD BLANK ID: B033109W1
SAMPLE TYPE: WATER

METHOD: GRO-GASOLINE RANGE ORGANICS
REFERENCE: EPA 8015C

BATCH #: 033109W1
DATE EXTRACTED: 03/31/09
DATE ANALYZED: 03/31/09

UNITS: mg/L

COMPOUND NAME	REPORTING LIMIT	SAMPLE CONC
TPH-G	0.050	ND

SAMPLE ID: L033109W1
DUPLICATE ID: D033109W1
BATCH #: 033109W1
SAMPLE TYPE: WATER
UNITS: mg/L

DATE EXTRACTED: 03/31/09
DATE ANALYZED: 03/31/09

ACCURACY (MATRIX SPIKE)

PARAMETER	SPIKE ADDED	SAMPLE RESULT	SPIKE RESULT	RECOVERY (%)	LIMITS (%)
TPH-G	0.250	ND	0.227	91	60-140

PRECISION (SPIKE DUPLICATE)

COMPOUND NAME	REPORTING LIMIT	SPIKE RESULT	DUPLICATE RESULT	RPD (%)	LIMITS (%)
TPH-G	0.050	0.227	0.218	4.0	±20

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

NA - NOT APPLICABLE

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9946
CLIENT PROJECT: WICKLAND.OAKLAND

SAMPLE ID: MW-1
LAB NO: 75519
DATE SAMPLED: 03/21/09
TIME SAMPLED: 10:25
BATCH #: 040109W1
DATE ANALYZED: 04/03/09

METHOD: VOLATILE ORGANIC COMPOUNDS
REFERENCE: EPA 5030/8260

SAMPLE TYPE: WATER
UNITS: ug/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	0.500	ND
CHLOROMETHANE	74-87-3	0.500	ND
VINYL CHLORIDE	75-01-4	0.500	ND
BROMOMETHANE	74-83-9	0.500	ND
CHLOROETHANE	75-00-3	0.500	ND
TRICHLORODIFLUOROMETHANE	75-69-4	0.500	ND
1,1-DICHLOROETHENE	75-35-4	0.500	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	0.500	ND
METHYLENE CHLORIDE	75-09-2	2.50	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	0.500	ND
1,1-DICHLOROETHANE	75-34-3	0.500	ND
CIS-1,2-DICHLOROETHENE	156-59-2	0.500	16.2
2,2-DICHLOROPROPANE	594-20-7	0.500	ND
BROMOCHLOROMETHANE	74-97-5	0.500	ND
CHLOROFORM	67-66-3	0.500	ND
1,1,1-TRICHLOROETHANE	71-55-6	0.500	ND
CARBON TETRACHLORIDE	56-23-5	0.500	0.610
1,1-DICHLOROPROPENE	563-58-6	0.500	ND
BENZENE	71-43-2	0.500	ND
1,2-DICHLOROETHANE	107-06-2	0.500	ND
TRICHLOROETHENE	79-01-6	0.500	5.97
1,2-DICHLOROPROPANE	78-87-5	0.500	ND
DIBROMOMETHANE	74-95-3	0.500	ND
BROMODICHLOROMETHANE	75-27-4	0.500	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	0.500	ND
TOLUENE	108-88-3	0.500	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	0.500	ND
1,1,2-TRICHLOROETHANE	79-00-5	0.500	ND
TETRACHLOROETHENE	127-18-4	0.500	13.9
1,3-DICHLOROPROPANE	142-28-9	0.500	ND
DIBROMOCHLOROMETHANE	124-48-1	0.500	ND
1,2-DIBROMOETHANE	106-93-4	0.500	ND
CHLOROBENZENE	108-90-7	0.500	ND
1,1,1,2-TETRACHLOROETHANE	630-20-6	0.500	ND
ETHYLBENZENE	100-41-4	0.500	ND
XYLENE (M+P)	1330-20-7	0.500	ND
XYLENE (O)	1330-20-7	0.500	ND
STYRENE	100-42-5	0.500	ND
BROMOFORM	75-25-2	0.500	ND
ISOPROPYLBENZENE	98-82-8	0.500	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	0.500	ND
BROMOBENZENE	108-86-1	0.500	ND
1,2,3-TRICHLOROPROPANE	96-18-4	0.500	ND
N-PROPYLBENZENE	103-65-1	0.500	ND
2-CHLOROTOLUENE	95-49-8	0.500	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	0.500	ND

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9946
CLIENT PROJECT: WICKLAND.OAKLAND

SAMPLE ID: MW-1
LAB NO: 75519
DATE SAMPLED: 03/21/09
TIME SAMPLED: 10:25
BATCH #: 040109W1
DATE ANALYZED: 04/03/09

METHOD: VOLATILE ORGANIC COMPOUNDS
REFERENCE: EPA 5030/8260

SAMPLE TYPE: WATER
UNITS: ug/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
4-CHLOROTOLUENE	106-43-4	0.500	ND
TERT-BUTYLBENZENE	98-06-6	0.500	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	0.500	ND
SEC-BUTYLBENZENE	135-98-8	0.500	ND
1,3-DICHLOROBENZENE	541-73-1	0.500	ND
4-ISOPROPYLtolUENE	99-87-6	0.500	ND
1,4-DICHLOROBENZENE	106-46-7	0.500	ND
N-BUTYLBENZENE	104-51-8	0.500	ND
1,2-DICHLOROBENZENE	95-50-1	0.500	ND
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	0.500	ND
1,2,4-TRICHLOROBENZENE	120-82-1	1.00	ND
HEXACHLOROBUTADIENE	87-68-3	1.00	ND
NAPHTHALENE	91-20-3	1.00	ND
1,2,3-TRICHLOROBENZENE	87-61-6	1.00	ND
METHYL TERT-BUTYL ETHER (MTBE)	1634-04-4	0.500	0.500
DIISOPROPYL ETHER	108-20-3	5.00	ND
ETHYL TERTIARY BUTYL ETHER	673-92-3	5.00	ND
TERTIARY AMYL METHYL ETHER	994-05-8	5.00	ND
TERTIARY BUTYL ALCOHOL	75-65-0	10.0	ND

SURROGATE RECOVERY

%

DIBROMOFLUOROMETHANE	99
TOLUENE-D8	101
4-BROMOFLUOROBENZENE	100

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

NA -NOT APPLICABLE OR AVAILABLE

APPROVED BY: ch
DATE: 4/16/09

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9946
CLIENT PROJECT: WICKLAND.OAKLAND

SAMPLE ID: MW-2
LAB NO: 75520
DATE SAMPLED: 03/21/09
TIME SAMPLED: 11:45
BATCH #: 040109W1
DATE ANALYZED: 04/03/09

METHOD: VOLATILE ORGANIC COMPOUNDS
REFERENCE: EPA 5030/8260

SAMPLE TYPE: WATER
UNITS: ug/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	4.00	ND
CHLOROMETHANE	74-87-3	4.00	ND
VINYL CHLORIDE	75-01-4	4.00	ND
BROMOMETHANE	74-83-9	4.00	ND
CHLOROETHANE	75-00-3	4.00	ND
TRICHLORODIFLUOROMETHANE	75-69-4	4.00	ND
1,1-DICHLOROETHENE	75-35-4	4.00	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	4.00	ND
METHYLENE CHLORIDE	75-09-2	20.0	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	4.00	ND
1,1-DICHLOROETHANE	75-34-3	4.00	ND
CIS-1,2-DICHLOROETHENE	156-59-2	4.00	ND
2,2-DICHLOROPROPANE	594-20-7	4.00	ND
BROMOCHLOROMETHANE	74-97-5	4.00	ND
CHLOROFORM	67-66-3	4.00	ND
1,1,1-TRICHLOROETHANE	71-55-6	4.00	ND
CARBON TETRACHLORIDE	56-23-5	4.00	ND
1,1-DICHLOROPROPENE	563-58-6	4.00	ND
BENZENE	71-43-2	4.00	398
1,2-DICHLOROETHANE	107-06-2	4.00	ND
TRICHLOROETHENE	79-01-6	4.00	ND
1,2-DICHLOROPROPANE	78-87-5	4.00	ND
DIBROMOMETHANE	74-95-3	4.00	ND
BROMODICHLOROMETHANE	75-27-4	4.00	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	4.00	ND
TOLUENE	108-88-3	4.00	27.6
CIS-1,3-DICHLOROPROPENE	10061-01-5	4.00	ND
1,1,2-TRICHLOROETHANE	79-00-5	4.00	ND
TETRACHLOROETHENE	127-18-4	4.00	ND
1,3-DICHLOROPROPANE	142-28-9	4.00	ND
DIBROMOCHLOROMETHANE	124-48-1	4.00	ND
1,2-DIBROMOETHANE	106-93-4	4.00	ND
CHLOROBENZENE	108-90-7	4.00	ND
1,1,1,2-TETRACHLOROETHANE	630-20-6	4.00	ND
ETHYLBENZENE	100-41-4	4.00	322
XYLENE (M+P)	1330-20-7	4.00	117
XYLENE (O)	1330-20-7	4.00	10.7
STYRENE	100-42-5	4.00	ND
BROMOFORM	75-25-2	4.00	ND
ISOPROPYLBENZENE	98-82-8	4.00	129
1,1,2,2-TETRACHLOROETHANE	79-34-5	4.00	ND
BROMOBENZENE	108-86-1	4.00	ND
1,2,3-TRICHLOROPROPANE	96-18-4	4.00	ND
N-PROPYLBENZENE	103-65-1	4.00	213
2-CHLOROTOLUENE	95-49-8	4.00	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	4.00	14.2

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9946
CLIENT PROJECT: WICKLAND.OAKLAND

SAMPLE ID: MW-2
LAB NO: 75520
DATE SAMPLED: 03/21/09
TIME SAMPLED: 11:45
BATCH #: 040109W1
DATE ANALYZED: 04/03/09

METHOD: VOLATILE ORGANIC COMPOUNDS
REFERENCE: EPA 5030/8260

SAMPLE TYPE: WATER
UNITS: ug/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
4-CHLOROTOLUENE	106-43-4	4.00	ND
TERT-BUTYLBENZENE	98-06-6	4.00	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	4.00	44.2
SEC-BUTYLBENZENE	135-98-8	4.00	17.8
1,3-DICHLOROBENZENE	541-73-1	4.00	ND
4-ISOPROPYLtolUENE	99-87-6	4.00	ND
1,4-DICHLOROBENZENE	106-46-7	4.00	ND
N-BUTYLBENZENE	104-51-8	4.00	17.3
1,2-DICHLOROBENZENE	95-50-1	4.00	ND
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	4.00	ND
1,2,4-TRICHLOROBENZENE	120-82-1	8.00	ND
HEXACHLOROBUTADIENE	87-68-3	8.00	ND
NAPHTHALENE	91-20-3	8.00	37.8
1,2,3-TRICHLOROBENZENE	87-61-6	8.00	ND
METHYL TERT-BUTYL ETHER (MTBE)	1634-04-4	4.00	ND
DIISOPROPYL ETHER	108-20-3	40.0	ND
ETHYL TERTIARY BUTYL ETHER	673-92-3	40.0	ND
TERtiARY AMYL METHYL ETHER	994-05-8	40.0	ND
TERtiARY BUTYL ALCOHOL	75-65-0	80.0	ND

SURROGATE RECOVERY

%

DIBROMOFLUOROMETHANE	101
TOLUENE-D8	98
4-BROMOFLUOROBENZENE	107

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

NA -NOT APPLICABLE OR AVAILABLE

APPROVED BY: ch
DATE: 4/6/09

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9946
CLIENT PROJECT: WICKLAND.OAKLAND

SAMPLE ID: MW-3
LAB NO: 75521
DATE SAMPLED: 03/21/09
TIME SAMPLED: 11:05
BATCH #: 040109W1
DATE ANALYZED: 04/04/09

METHOD: VOLATILE ORGANIC COMPOUNDS
REFERENCE: EPA 5030/8260

SAMPLE TYPE: WATER
UNITS: ug/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	2.00	ND
CHLOROMETHANE	74-87-3	2.00	ND
VINYL CHLORIDE	75-01-4	2.00	ND
BROMOMETHANE	74-83-9	2.00	ND
CHLOROETHANE	75-00-3	2.00	ND
TRICHLORODIFLUOROMETHANE	75-69-4	2.00	ND
1,1-DICHLOROETHENE	75-35-4	2.00	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	2.00	ND
METHYLENE CHLORIDE	75-09-2	10.0	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	2.00	ND
1,1-DICHLOROETHANE	75-34-3	2.00	ND
CIS-1,2-DICHLOROETHENE	156-59-2	2.00	ND
2,2-DICHLOROPROPANE	594-20-7	2.00	ND
BROMOCHLOROMETHANE	74-97-5	2.00	ND
CHLOROFORM	67-66-3	2.00	ND
1,1,1-TRICHLOROETHANE	71-55-6	2.00	ND
CARBON TETRACHLORIDE	56-23-5	2.00	ND
1,1-DICHLOROPROPENE	563-58-6	2.00	ND
BENZENE	71-43-2	2.00	ND
1,2-DICHLOROETHANE	107-06-2	2.00	ND
TRICHLOROETHENE	79-01-6	2.00	ND
1,2-DICHLOROPROPANE	78-87-5	2.00	ND
DIBROMOMETHANE	74-95-3	2.00	ND
BROMODICHLOROMETHANE	75-27-4	2.00	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	2.00	ND
TOLUENE	108-88-3	2.00	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	2.00	ND
1,1,2-TRICHLOROETHANE	79-00-5	2.00	ND
TETRACHLOROETHENE	127-18-4	2.00	ND
1,3-DICHLOROPROPANE	142-28-9	2.00	ND
DIBROMOCHLOROMETHANE	124-48-1	2.00	ND
1,2-DIBROMOETHANE	106-93-4	2.00	ND
CHLOROBENZENE	108-90-7	2.00	ND
1,1,1,2-TETRACHLOROETHANE	630-20-6	2.00	ND
ETHYLBENZENE	100-41-4	2.00	34.9
XYLENE (M+P)	1330-20-7	2.00	ND
XYLENE (O)	1330-20-7	2.00	ND
STYRENE	100-42-5	2.00	ND
BROMOFORM	75-25-2	2.00	ND
ISOPROPYLBENZENE	98-82-8	2.00	20.0
1,1,2,2-TETRACHLOROETHANE	79-34-5	2.00	ND
BROMOBENZENE	108-86-1	2.00	ND
1,2,3-TRICHLOROPROPANE	96-18-4	2.00	ND
N-PROPYLBENZENE	103-65-1	2.00	37.8
2-CHLOROTOLUENE	95-49-8	2.00	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	2.00	3.88

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9946
CLIENT PROJECT: WICKLAND.OAKLAND

SAMPLE ID: MW-3
LAB NO: 75521
DATE SAMPLED: 03/21/09
TIME SAMPLED: 11:05
BATCH #: 040109W1
DATE ANALYZED: 04/04/09

METHOD: VOLATILE ORGANIC COMPOUNDS
REFERENCE: EPA 5030/8260

SAMPLE TYPE: WATER
UNITS: ug/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
4-CHLOROTOLUENE	106-43-4	2.00	ND
TERT-BUTYLBENZENE	98-06-6	2.00	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	2.00	ND
SEC-BUTYLBENZENE	135-98-8	2.00	4.33
1,3-DICHLOROBENZENE	541-73-1	2.00	ND
4-ISOPROPYLtolUENE	99-87-6	2.00	ND
1,4-DICHLOROBENZENE	106-46-7	2.00	ND
N-BUTYLBENZENE	104-51-8	2.00	2.94
1,2-DICHLOROBENZENE	95-50-1	2.00	ND
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	2.00	ND
1,2,4-TRICHLOROBENZENE	120-82-1	4.00	ND
HEXACHLOROBUTADIENE	87-68-3	4.00	ND
NAPHTHALENE	91-20-3	4.00	7.72
1,2,3-TRICHLOROBENZENE	87-61-6	4.00	ND
METHYL TERT-BUTYL ETHER (MTBE)	1634-04-4	2.00	ND
DIISOPROPYL ETHER	108-20-3	20.0	ND
ETHYL TERTIARY BUTYL ETHER	673-92-3	20.0	ND
TERtiARY AMYL METHYL ETHER	994-05-8	20.0	ND
TERtiARY BUTYL ALCOHOL	75-65-0	40.0	ND

SURROGATE RECOVERY

	%
DIBROMOFLUOROMETHANE	98
TOLUENE-D8	100
4-BROMOFLUOROBENZENE	101

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

NA -NOT APPLICABLE OR AVAILABLE

APPROVED BY: ch
DATE: 4/6/09

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9946
CLIENT PROJECT: WICKLAND.OAKLAND

SAMPLE ID: MW-4
LAB NO: 75522
DATE SAMPLED: 03/21/09
TIME SAMPLED: 12:20
BATCH #: 040109W1
DATE ANALYZED: 04/03/09

METHOD: VOLATILE ORGANIC COMPOUNDS
REFERENCE: EPA 5030/8260

SAMPLE TYPE: WATER
UNITS: ug/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	5.00	ND
CHLOROMETHANE	74-87-3	5.00	ND
VINYL CHLORIDE	75-01-4	5.00	ND
BROMOMETHANE	74-83-9	5.00	ND
CHLOROETHANE	75-00-3	5.00	ND
TRICHLORODIFLUOROMETHANE	75-69-4	5.00	ND
1,1-DICHLOROETHENE	75-35-4	5.00	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	5.00	ND
METHYLENE CHLORIDE	75-09-2	25.0	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	5.00	ND
1,1-DICHLOROETHANE	75-34-3	5.00	ND
CIS-1,2-DICHLOROETHENE	156-59-2	5.00	ND
2,2-DICHLOROPROPANE	594-20-7	5.00	ND
BROMOCHLOROMETHANE	74-97-5	5.00	ND
CHLOROFORM	67-66-3	5.00	ND
1,1,1-TRICHLOROETHANE	71-55-6	5.00	ND
CARBON TETRACHLORIDE	56-23-5	5.00	ND
1,1-DICHLOROPROPENE	563-58-6	5.00	ND
BENZENE	71-43-2	5.00	ND
1,2-DICHLOROETHANE	107-06-2	5.00	ND
TRICHLOROETHENE	79-01-6	5.00	ND
1,2-DICHLOROPROPANE	78-87-5	5.00	ND
DIBROMOMETHANE	74-95-3	5.00	ND
BROMODICHLOROMETHANE	75-27-4	5.00	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	5.00	ND
TOLUENE	108-88-3	5.00	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	5.00	ND
1,1,2-TRICHLOROETHANE	79-00-5	5.00	ND
TETRACHLOROETHENE	127-18-4	5.00	ND
1,3-DICHLOROPROPANE	142-28-9	5.00	ND
DIBROMOCHLOROMETHANE	124-48-1	5.00	ND
1,2-DIBROMOETHANE	106-93-4	5.00	ND
CHLOROBENZENE	108-90-7	5.00	ND
1,1,1,2-TETRACHLOROETHANE	630-20-6	5.00	ND
ETHYLBENZENE	100-41-4	5.00	163
XYLENE (M+P)	1330-20-7	5.00	ND
XYLENE (O)	1330-20-7	5.00	ND
STYRENE	100-42-5	5.00	ND
BROMOFORM	75-25-2	5.00	ND
ISOPROPYLBENZENE	98-82-8	5.00	97.2
1,1,2,2-TETRACHLOROETHANE	79-34-5	5.00	ND
BROMOBENZENE	108-86-1	5.00	ND
1,2,3-TRICHLOROPROPANE	96-18-4	5.00	ND
N-PROPYLBENZENE	103-65-1	5.00	320
2-CHLOROTOLUENE	95-49-8	5.00	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	5.00	ND

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9946
CLIENT PROJECT: WICKLAND.OAKLAND

SAMPLE ID: MW-4
LAB NO: 75522
DATE SAMPLED: 03/21/09
TIME SAMPLED: 12:20
BATCH #: 040109W1
DATE ANALYZED: 04/03/09

METHOD: VOLATILE ORGANIC COMPOUNDS
REFERENCE: EPA 5030/8260

SAMPLE TYPE: WATER
UNITS: ug/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
4-CHLOROTOLUENE	106-43-4	5.00	ND
TERT-BUTYLBENZENE	98-06-6	5.00	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	5.00	8.13
SEC-BUTYLBENZENE	135-98-8	5.00	28.3
1,3-DICHLOROBENZENE	541-73-1	5.00	ND
4-ISOPROPYLtolUENE	99-87-6	5.00	ND
1,4-DICHLOROBENZENE	106-46-7	5.00	ND
N-BUTYLBENZENE	104-51-8	5.00	63.1
1,2-DICHLOROBENZENE	95-50-1	5.00	ND
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	5.00	ND
1,2,4-TRICHLOROBENZENE	120-82-1	10.0	ND
HEXACHLOROBUTADIENE	87-68-3	10.0	ND
NAPHTHALENE	91-20-3	10.0	86.5
1,2,3-TRICHLOROBENZENE	87-61-6	10.0	ND
METHYL TERT-BUTYL ETHER (MTBE)	1634-04-4	5.00	ND
DIISOPROPYL ETHER	108-20-3	50.0	ND
ETHYL TERTIARY BUTYL ETHER	673-92-3	50.0	ND
TERTIARY AMYL METHYL ETHER	994-05-8	50.0	ND
TERTIARY BUTYL ALCOHOL	75-65-0	100	ND

SURROGATE RECOVERY

%

DIBROMOFLUOROMETHANE	100
TOLUENE-D8	100
4-BROMOFLUOROBENZENE	104

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

NA -NOT APPLICABLE OR AVAILABLE

APPROVED BY: ch
DATE: 4/6/09

K PRIME, INC.

LABORATORY METHOD BLANK REPORT

METHOD BLANK ID: B040109W1

BATCH #: 040109W1
DATE ANALYZED: 04/01/09METHOD: VOLATILE ORGANIC COMPOUNDS
REFERENCE: EPA 5030/8260SAMPLE TYPE: WATER
UNITS: ug/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	0.500	ND
CHLOROMETHANE	74-87-3	0.500	ND
VINYL CHLORIDE	75-01-4	0.500	ND
BROMOMETHANE	74-83-9	0.500	ND
CHLOROETHANE	75-00-3	0.500	ND
TRICHLORODIFLUOROMETHANE	75-69-4	0.500	ND
1,1-DICHLOROETHENE	75-35-4	0.500	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	0.500	ND
METHYLENE CHLORIDE	75-09-2	2.50	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	0.500	ND
1,1-DICHLOROETHANE	75-34-3	0.500	ND
CIS-1,2-DICHLOROETHENE	156-59-2	0.500	ND
2,2-DICHLOROPROPANE	594-20-7	0.500	ND
BROMOCHLOROMETHANE	74-97-5	0.500	ND
CHLOROFORM	67-66-3	0.500	ND
1,1,1-TRICHLOROETHANE	71-55-6	0.500	ND
CARBON TETRACHLORIDE	56-23-5	0.500	ND
1,1-DICHLOROPROPENE	563-58-6	0.500	ND
BENZENE	71-43-2	0.500	ND
1,2-DICHLOROETHANE	107-06-2	0.500	ND
TRICHLOROETHENE	79-01-6	0.500	ND
1,2-DICHLOROPROPANE	78-87-5	0.500	ND
DIBROMOMETHANE	74-95-3	0.500	ND
BROMODICHLOROMETHANE	75-27-4	0.500	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	0.500	ND
TOLUENE	108-88-3	0.500	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	0.500	ND
1,1,2-TRICHLOROETHANE	79-00-5	0.500	ND
TETRACHLOROETHENE	127-18-4	0.500	ND
1,3-DICHLOROPROPANE	142-28-9	0.500	ND
DIBROMOCHLOROMETHANE	124-48-1	0.500	ND
1,2-DIBROMOETHANE	106-93-4	0.500	ND
CHLOROBENZENE	108-90-7	0.500	ND
1,1,1,2-TETRACHLOROETHANE	630-20-6	0.500	ND
ETHYLBENZENE	100-41-4	0.500	ND
XYLENE (M+P)	1330-20-7	0.500	ND
XYLENE (O)	1330-20-7	0.500	ND
STYRENE	100-42-5	0.500	ND
BROMOFORM	75-25-2	0.500	ND
ISOPROPYLBENZENE	98-82-8	0.500	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	0.500	ND
BROMOBENZENE	108-86-1	0.500	ND
1,2,3-TRICHLOROPROPANE	96-18-4	0.500	ND
N-PROPYLBENZENE	103-65-1	0.500	ND
2-CHLOROTOLUENE	95-49-8	0.500	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	0.500	ND

K PRIME, INC.
LABORATORY METHOD BLANK REPORT

METHOD BLANK ID: B040109W1

BATCH #: 040109W1
DATE ANALYZED: 04/01/09

METHOD: VOLATILE ORGANIC COMPOUNDS
REFERENCE: EPA 5030/8260

SAMPLE TYPE: WATER
UNITS: ug/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
4-CHLOROTOLUENE	106-43-4	0.500	ND
TERT-BUTYLBENZENE	98-06-6	0.500	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	0.500	ND
SEC-BUTYLBENZENE	135-98-8	0.500	ND
1,3-DICHLOROBENZENE	541-73-1	0.500	ND
4-ISOPROPYLtolUENE	99-87-6	0.500	ND
1,4-DICHLOROBENZENE	106-46-7	0.500	ND
N-BUTYLBENZENE	104-51-8	0.500	ND
1,2-DICHLOROBENZENE	95-50-1	0.500	ND
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	0.500	ND
1,2,4-TRICHLOROBENZENE	120-82-1	1.00	ND
HEXACHLOROBUTADIENE	87-68-3	1.00	ND
NAPHTHALENE	91-20-3	1.00	ND
1,2,3-TRICHLOROBENZENE	87-61-6	1.00	ND
METHYL TERT-BUTYL ETHER (MTBE)	1634-04-4	0.500	ND
DIISOPROPYL ETHER	108-20-3	5.00	ND
ETHYL TERTIARY BUTYL ETHER	673-92-3	5.00	ND
TERTIARY AMYL METHYL ETHER	994-05-8	5.00	ND
TERTIARY BUTYL ALCOHOL	75-65-0	10.0	ND

SURROGATE RECOVERY

%

DIBROMOFLUOROMETHANE	100
TOLUENE-D8	101
4-BROMOFLUOROBENZENE	98

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

NA -NOT APPLICABLE OR AVAILABLE

K PRIME, INC.
LABORATORY QC REPORT

METHOD: VOLATILE ORGANIC COMPOUNDS
REFERENCE: EPA 5030/8260

SAMPLE ID: B040109W1
SPIKE ID: L040109W1
DUPLICATE ID: D040109W1
BATCH #: 040109W1
SAMPLE TYPE: WATER
UNITS: µg/L

ACCURACY (MATRIX SPIKE)

PARAMETER	SPIKE	SAMPLE	SPIKE	RECOVERY	LIMITS
	ADDED	RESULT	RESULT	(%)	(%)
1,1 DICHLOROETHENE	10.0	ND	11.2	112	60-140
BENZENE	10.0	ND	9.80	98	60-140
TRICHLOROETHENE	10.0	ND	10.7	107	60-140
TOLUENE	10.0	ND	9.37	94	60-140
CHLOROBENZENE	10.0	ND	10.6	106	60-140

PRECISION (SPIKE DUPLICATE)

COMPOUND NAME	REPORTING	SPIKE	DUPLICATE	RPD	LIMITS
	LIMIT	RESULT	RESULT	(%)	(%)
1,1 DICHLOROETHENE	0.500	11.2	12.1	7.3	±20
BENZENE	0.500	9.80	10.6	7.4	±20
TRICHLOROETHENE	0.500	10.7	11.5	7.3	±20
TOLUENE	0.500	9.37	9.60	2.4	±20
CHLOROBENZENE	0.500	10.6	11.5	8.2	±20

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
NA - NOT AVAILABLE OR APPLICABLE

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9946
CLIENT PROJECT: WICKLAND.OAKLAND

METHOD: DRO - DIESEL RANGE ORGANICS (C12-C34)
REFERENCE: EPA 8015C

SAMPLE TYPE: WATER
UNITS: mg/L

SAMPLE ID	LAB NO.	DATE SAMPLED	BATCH ID	EXTRACT DATE	DATE ANALYZED	MRL	SAMPLE CONC	DRO PATTERN
MW-1	75519	3/21/09	032709W1	03/27/09	03/28/09	0.056	ND	
MW-2	75520	3/21/09	032709W1	03/27/09	03/28/09	0.053	0.623	AK
MW-3	75521	3/21/09	032709W1	03/27/09	03/28/09	0.056	0.200	AK
MW-4	75522	3/21/09	032709W1	03/27/09	03/28/09	0.053	0.969	AK

NOTES:

- ND Not Detected at or above the stated MRL
NA Not Applicable or Available
MRL Method Reporting Limit
AM Hydrocarbon response is in the C12-C22 range
AC Heavier hydrocarbons contributing to diesel range quantitation
AJ Heavier hydrocarbon than diesel
AK Lighter hydrocarbon than diesel
AE Unknown hydrocarbon with a single peak
AN Unknown hydrocarbon with several peaks

APPROVED BY: ch
DATE: 4/6/09

K PRIME, INC.
LABORATORY QUALITY CONTROL REPORT

BATCH ID: 032709W1
DATE EXTRACTED: 03/27/09
DATE ANALYZED: 03/28/09

METHOD: DRO
REFERENCE: EPA 8015C

SAMPLE TYPE: WATER
UNITS: mg/L

METHOD BLANK ID: B032709W1

COMPOUND NAME	REPORTING LIMIT	SAMPLE CONC
DRO	0.050	ND

SAMPLE ID: L032709W1
DUPLICATE ID: D032709W1

ACCURACY (MATRIX SPIKE)

PARAMETER	SPIKE	SAMPLE	SPIKE	RECOVERY	LIMITS
	ADDED	RESULT	RESULT	(%)	(%)
DRO	1.00	ND	0.653	65	60-140

PRECISION (SPIKE DUPLICATE)

COMPOUND NAME	REPORTING	SPIKE	DUPLICATE	RPD	LIMITS
	LIMIT	RESULT	RESULT	(%)	(%)
DRO	0.050	0.653	0.679	3.8	±20

NOTES:

DRO - DIESEL RANGE ORGANICS (C12-C34)

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

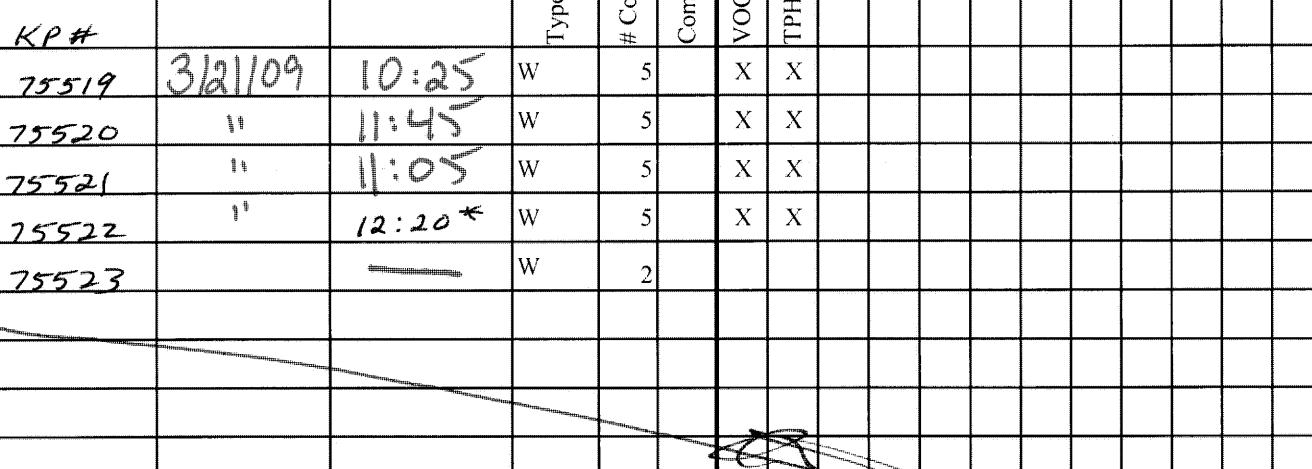
NA - NOT APPLICABLE OR AVAILABLE



711 Grand Avenue, Suite 220
San Rafael, California 94901
415.460.6770 • Fax 415.460.6771
main@westenvironmental.com

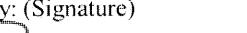
SAMPLE ANALYSIS/COMPOSITE REQUEST FORM

CHAIN-OF-CUSTODY

Invoice to: WEST, Inc.			Date 3/21/09		Page 1 of 1								
Project: Wickland,Oakland			Location: 3875 Telegraph Ave										
Project Manager: Peter Morris			Phone: 415/460-6770					Fax: 415/460-6771					
Laboratory: KPrime, Inc, Santa Rosa, CA			Turnaround time		1	2	3	5	7	10	Std.		
Sampler Signature:			(days)								X		
Analyses Requested													
Sample ID	Date	Time	Type	# Containers	Composite	VOCs/BTEX/MTBE (USEPA8260B)	TPHd/TPHg (USEPA 8015M)						HOLD
MW-1	75519	3/21/09	10:25	W	5	X	X						
MW-2	75520	"	11:45	W	5	X	X						
MW-3	75521	"	11:05	W	5	X	X						
MW-4	75522	"	12:20*	W	5	X	X						
Trip Blank	75523		—	W	2								X
													

NOTES: *Please provide EDF for all data

* Time taken from sample container
ph 8/23/09

Relinquished by: (Signature) 	Date/Time 3/23/09 13:36	Received by: (Signature) 	Date/Time 13:36 03/23/09
Relinquished by: (Signature) 	Date/Time 15:15 03/23/09	Received by: (Signature) 	Date/Time 3/23/09 15:15