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August 17, 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 *Second 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 Second 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 are true and correct to the best of my knowledge.

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

Very truly yours,

THE LAW OFFICES OF DAVID E. FRANK

Lori J. Gualco

LJG/je
Attachment

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

August 2009

Prepared for

Wickland Corporation
P.O. Box 13648
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Prepared by

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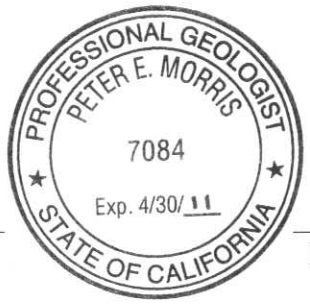
WEST
Environmental Services & Technology

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)

8/14/09
Date



Peter E. Morris
California Professional Geologist (7084)

8/14/09
Date

1.0 INTRODUCTION

This *Second 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 Second Quarter 2009, i.e., April to June 2009.

Groundwater monitoring was conducted during the Second 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 anticipated work for the upcoming quarter.

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). Groundwater samples collected from temporary wells revealed the presence of TPH as gasoline (TPHg) up to 140,000 micrograms per liter (µg/l) in samples from onsite boring B-4 and offsite up to 280,000 µg/l in samples collected from the BART parking lot boring B-16. The investigations also revealed the

presence of TPH as diesel (TPHd) up to 530,000 µg/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.

Pursuant to a request from the ACEH, quarterly groundwater monitoring activities were conducted during the Second Quarter 2009 in accordance with the *Work Plan* (ACEH, 2008). In addition, in accordance with the California State Water Resources Control Board (SWRCB) Resolution No. 2009-0042, groundwater monitoring frequency will be reduced from quarterly to semi-annual beginning in the Third Quarter 2009, i.e., July to September.

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, December 23, 2008 and March 31, 2009 in accordance with the *Work Plan.* A summary of the groundwater analytical results is presented in Table 2-3.

2.2 SECOND QUARTER 2009 ACTIVITIES

Groundwater monitoring activities were conducted during the Second Quarter 2009 in accordance with the procedures outlined in the *Work Plan*. The Second 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 Second Quarter 2009, the depth to groundwater measurements in the monitoring wells ranged from 14.21 feet below ground surface (MW-3) to 15.45 feet below ground surface (MW-2). Groundwater elevations in the monitoring wells ranged from 63.77 feet above Mean Sea Level (MW-2) to 66.33 feet above Mean Sea Level (MW-1). Based on the Second Quarter 2009 groundwater elevations, the groundwater flow direction was estimated to the southwest with a hydraulic gradient of approximately 0.011 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 June 29, 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 pre-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 20.0 µg/l. Laboratory analysis of the groundwater samples revealed the highest concentrations of petroleum hydrocarbons in the sample collected from monitoring well MW-4 including: TPHg at 5,460 µg/l; and TPHd at 1,190 µg/l. Laboratory analysis of groundwater samples collected from the upgradient monitoring well, MW-1, revealed: TPHd at 59 µg/l; tetrachloroethene (PCE) at 12.4 µg/l; trichloroethene (TCE) at 5.22 µg/l; and cis-1,2-dicholorethene (DCE) at 12.3 µg/l.

Laboratory analysis of groundwater samples collected from the downgradient monitoring well, MW-2, revealed: TPHg at 4,570 µg/l; TPHd at 707 µg/l; benzene at 193 µg/l; toluene at 9.31 µg/l; ethyl benzene at 113 µg/l; and xylenes at 53.09 µg/l. Laboratory analysis of groundwater samples collected from the cross-gradient monitoring well, MW-3, revealed: TPHg at 547 µg/l; TPHd at 234 µg/l; benzene at 1.33 µg/l; and ethyl benzene at 21.3 µg/l. A summary of the groundwater sample analytical results is presented in Table 2-3 and depicted on Figure 2-3.

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 drum and stored in a secure area. The purge water will be transported offsite for disposal pending waste profile acceptance from an appropriate disposal facility.

3.0 ANTICIPATED ACTIVITIES

Pursuant to the ACEH July 24, 2009 letter (ACEH, 2009) and consistent with the SWRCB Resolution No. 2009-0042, the groundwater monitoring frequency at the Site will be reduced from quarterly to semi-annual. Based on the previous groundwater monitoring data, semi-annual monitoring will be conducted during the First and Third calendar quarters beginning with the Third Quarter 2009.

Activities for the Third 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.

4.0 REFERENCES

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5.0 DISTRIBUTION LIST

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Geotracker (SWRCB)

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 (ft bgs)	Groundwater Elevation (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
		6/29/09	14.89	66.33
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
		6/29/09	15.45	63.77
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
		6/29/09	14.21	64.24
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
		6/29/09	14.89	65.65

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	Naph-thalene	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	0.5	<0.500	<0.500	<0.500	<0.500	<0.500	<1.00	<0.500	13.9	5.97	16.2	0.610
		6/29/09	<50	59	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<1.00	<0.500	12.4	5.22	12.3	<0.500
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
		6/29/09	4,570	707	193	9.31	113	53.09	<2.50	<2.50	20.5	8.08	15.5	11.6	31.3	98.4	<2.50	<2.50	<2.50	<2.50
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
		6/29/09	547	234	1.33	<0.500	21.3	<0.500	<0.500	0.900	<0.500	<0.500	2.12	2.58	10.1	23.4	<0.500	<0.500	0.780	<0.500
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
		6/29/09	5,460	1,190	<20.0	<20.0	52.5	<20.0	<20.0	<20.0	<20.0	<20.0	52.5	<20.0	<40.0	229	<20.0	<20.0	<20.0	<20.0

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**	WEST Environmental Services & Technology
August 2009	3875 Telegraph Avenue • Oakland, California	

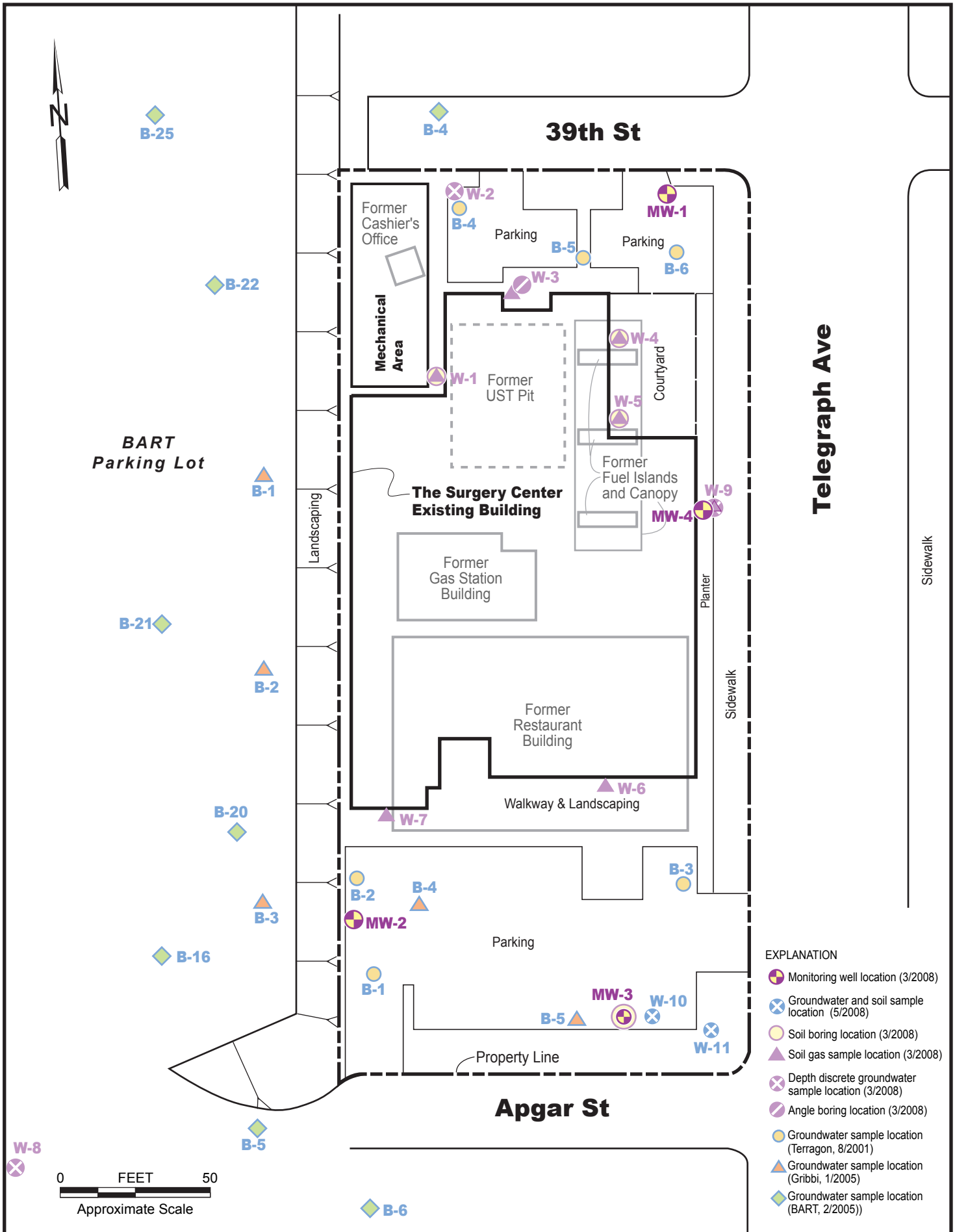


Figure 2-1

SITE PLAN AND GROUNDWATER MONITORING WELL LOCATIONS

August 2009

3875 Telegraph Avenue • Oakland, California

WEST Environmental Services & Technology

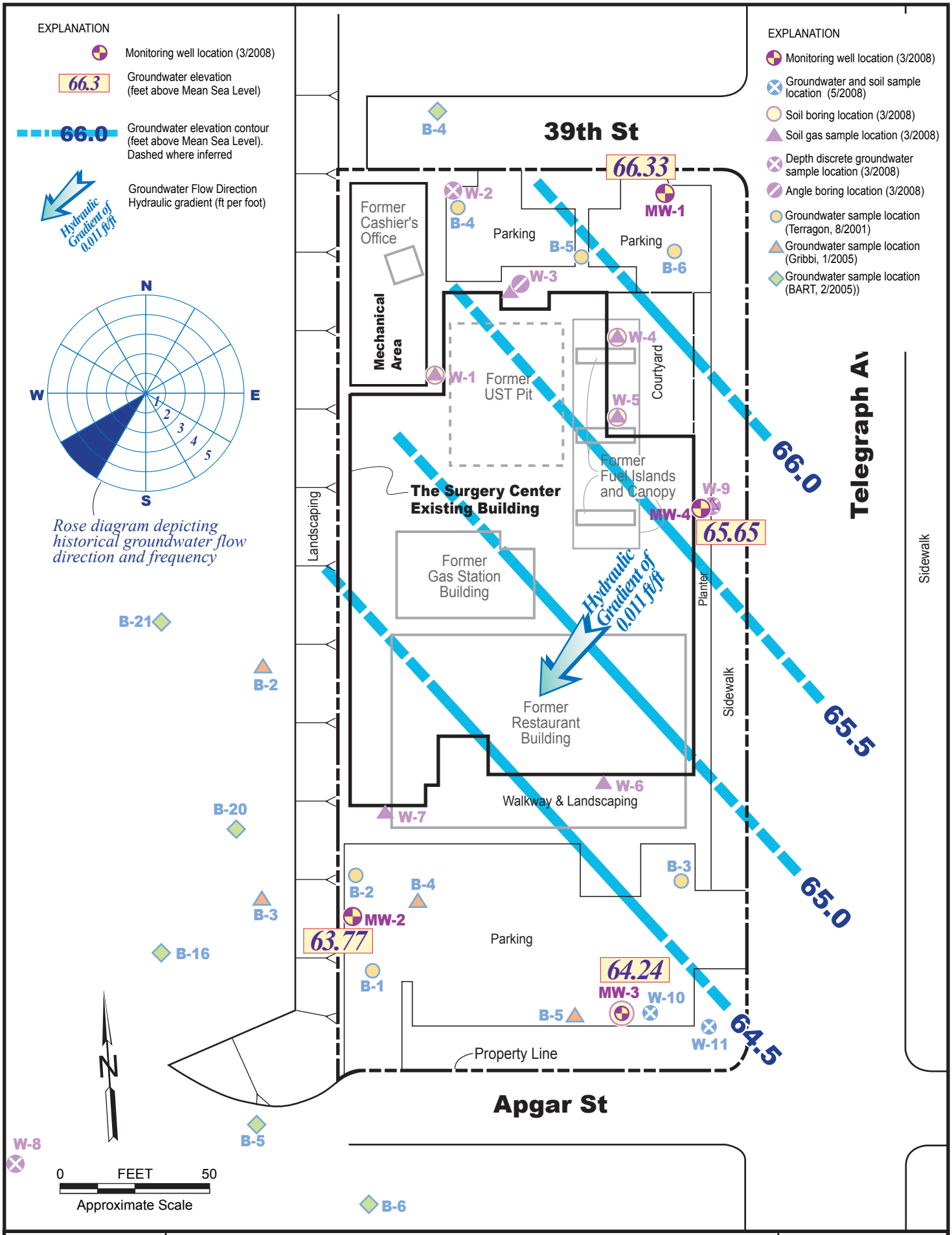


Figure 2-2	**GROUNDWATER ELEVATIONS June 2009**	WEST Environmental Services & Technology
August 2009	3875 Telegraph Avenue • Oakland, California	

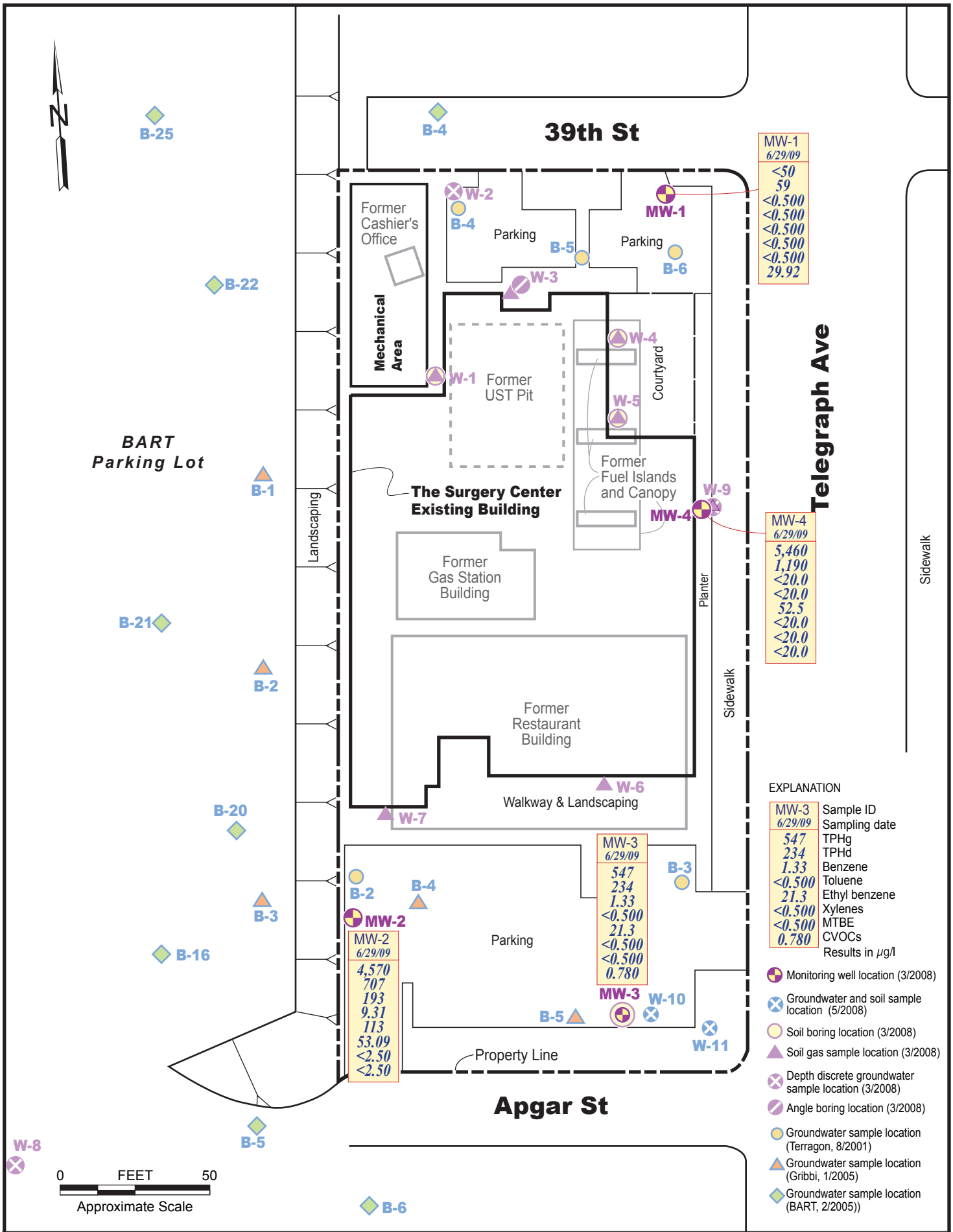


Figure 2-3

SUMMARY OF GROUNDWATER MONITORING WELL DATA
June 2009

August 2009

3875 Telegraph Avenue • Oakland, California

WEST Environmental Services & Technology

APPENDIX A

GROUNDWATER MONITORING WELL SAMPLING FIELD SHEETS

WEST
Environmental Services & Technology

GROUND WATER QUALITY SAMPLE COLLECTION FIELD DATA SHEET

Location ID: MW-1 Date: 6/29/09

Sampled By: JZ Sampling Time: 14:00

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

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

Sampling Method: Low Flow Peristaltic

Weather (Skies, temperature, wind): Clear Sunny 24°C

Well Diameter (in) 1"

Well Elevation (ft)

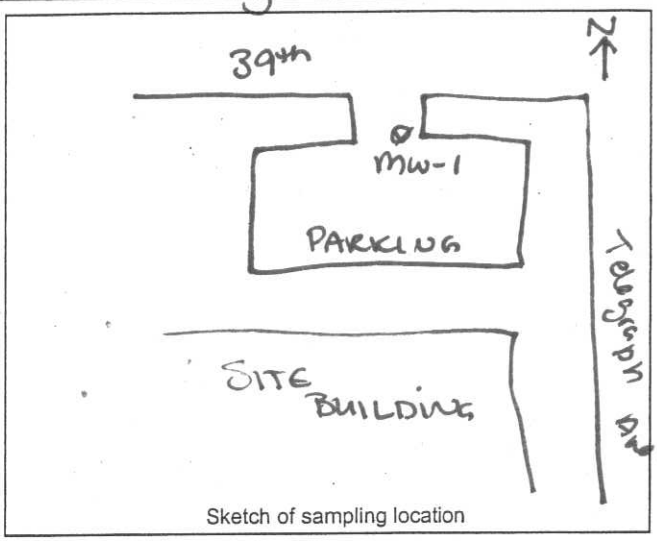
Well Casing Depth (ft) 29.4

Depth to Water (ft)) 14.89

Standing Water Volume (gal)

Purge Rate: (gal/min)

Purge Method: Low Flow



Sketch of sampling location

Observations/Comments: 4 VOA & 1L Amber

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
13:39	15.75	0.01	20.2	7.12	544	1.70	4.1	0.54	
13:42	17.45	0.1	19.3	6.74	577		3.3	0.30	turn pump down
13:45	17.76	0.2	19.3	6.58	566	0.93	2.2	0.20	pump at slowest
13:48	18.19	0.3	19.4	6.55	555		2.1	0.19	
13:51	18.25	0.4	19.2	6.52	553		2.6	0.24	
13:54	18.35	0.5	19.1	6.48	539	0.25	3.4	0.32	

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

WEST
Environmental Services & Technology

GROUND WATER QUALITY SAMPLE COLLECTION FIELD DATA SHEET

Location ID: MW-2 Date: 6.29.09

Sampled By: JZ Sampling Time: 14:40

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

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

Sampling Method: low flow

Weather (Skies, temperature, wind): Clear sunny 24°C

Well Diameter (in) 1"

Well Elevation (ft) _____

Well Casing Depth (ft) 22.8

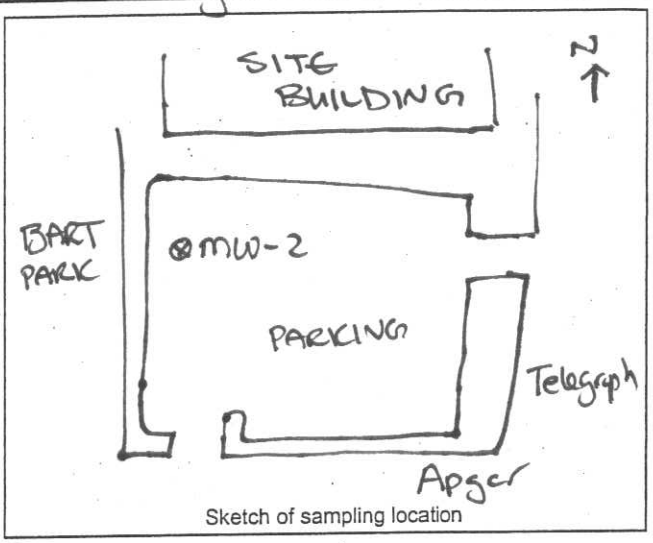
Depth to Water (ft)) 15.45

_____

Standing Water Volume (gal) _____

Purge Rate: (gal/min) _____

Purge Method: low flow



Sketch of sampling location

Observations/Comments: 4 VOA + 1L amber

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
14:22	15.67	0.01	22.1	6.56	634	2.78	6.7	0.60	
14:25	15.70	0.1	21.6	6.45	615	2.65	4.9	0.43	
14:28	15.78	0.2	21.9	6.45	599	2.17	5.6	0.50	
14:31	15.77	0.3	21.6	6.44	594	2.62	4.9	0.43	
14:34	15.77	0.4	20.7	6.43	593	1.66	3.6	0.33	
14:37	15.77	0.5	20.6	6.42	594	1.48	3.3	0.29	

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

WEST
Environmental Services & Technology

GROUND WATER QUALITY SAMPLE COLLECTION FIELD DATA SHEET

Location ID: MW-3 Date: 6.29.09

Sampled By: JZ Sampling Time: 15:10

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

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

Sampling Method: low flow

Weather (Skies, temperature, wind): Clear Sunny 24°C

Well Diameter (in) 1"

Well Elevation (ft)

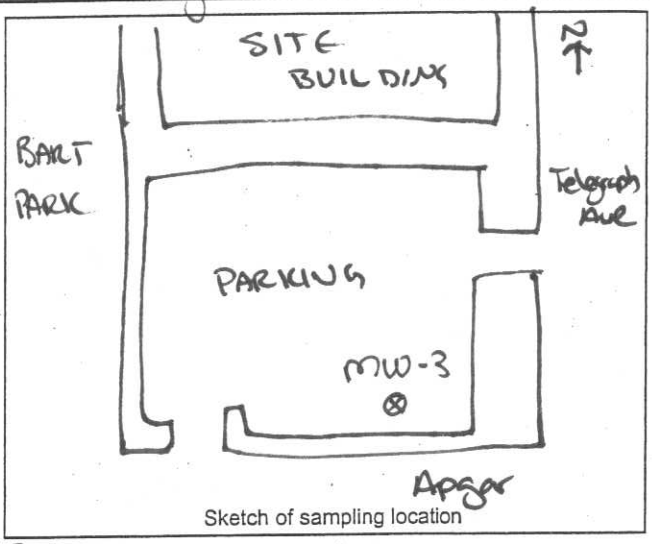
Well Casing Depth (ft) 21.5

Depth to Water (ft)) 14.21

Standing Water Volume (gal)

Purge Rate: (gal/min)

Purge Method: low flow



Sketch of sampling location

Observations/Comments: 4 VOAs + 1Q Amber

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
14:52	15.24	0.01	19.0	6.49	561	2.34	9.9	0.94	
14:55	16.75	0.1	19.0	6.42	568	1.31	4.9	0.45	turn pump down
14:58	17.28	0.2	19.9	6.40	576		4.1	0.38	
15:01	17.5	0.3	19.0	6.39	575		4.2	0.39	
15:04	18.15	0.4	19.0	6.39	572	1.51	3.5	0.33	pump at 3 bars
15:07	18.75	0.5	18.9	6.39	562	1.46	3.2	0.30	

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

WEST
Environmental Services & Technology

GROUND WATER QUALITY SAMPLE COLLECTION FIELD DATA SHEET

Location ID: MW-4 Date: 6.29.09

Sampled By: JZ Sampling Time: 15:55

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

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

Sampling Method: low flow

Weather (Skies, temperature, wind): Clear Sunny 24°C

Well Diameter (in) 3/4"

Well Elevation (ft)

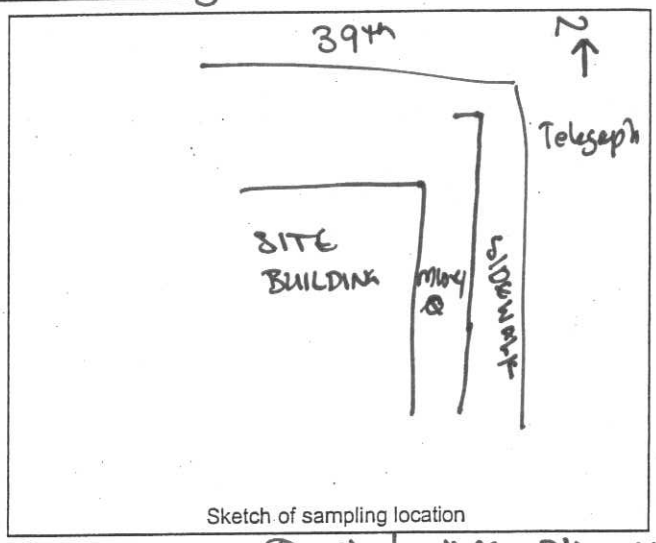
Well Casing Depth (ft) 21.5

Depth to Water (ft)) 14.89

Standing Water Volume (gal)

Purge Rate: (gal/min)

Purge Method: low flo



Sketch of sampling location

Observations/Comments: 4 VOAs + 1 Amber + Duplicate "MW8" @16:30

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
15:32	15.20	0.01	19.7	6.76	425	65.2	4.2	0.40	
15:35	15.35	0.1	19.0	6.54	398	58.9	3.7	0.34	
15:38	15.33	0.2	19.0	6.49	396	143	3.0	0.29	
15:41	15.33	0.3	18.9	6.48	393	59.6	2.8	0.26	
15:44	15.33	0.4	18.9	6.47	389	32.9	2.6	0.24	
15:47	15.33	0.5	18.8	6.47	375	24.2	2.6	0.24	
15:50	15.33	0.6	18.8	6.48	374	20.5	2.5	0.24	

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

APPENDIX B

LABORATORY DATA CERTIFICATES

K PRIME, Inc.

CONSULTING ANALYTICAL CHEMISTS

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

TRANSMITTAL

DATE: 07/16/09

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

Phone: 415-460-6770
Fax: 415-460-6711
Email: main@w-e-s-t.com

ACCT: 9946
PROJ: WICKLAND.OAKLAND

FROM: Richard A. Kagel, Ph.D.
Laboratory Director RAKagel 7/16/09

SUBJECT: LABORATORY RESULTS FOR YOUR PROJECT WICKLAND.OAKLAND

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

SAMPLE ID	TYPE	DATE	TIME	KPI LAB #
MW-1	WATER	06/29/09	14:00	78377
MW-2	WATER	06/29/09	14:40	78378
MW-3	WATER	06/29/09	15:10	78379
MW-4	WATER	06/29/09	15:55	78380
MW-8	WATER	06/29/09	16:30	78381

The above listed sample group was received on 06/30/09 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 **SAMPLE TYPE:** WATER
REFERENCE: EPA 8015C **UNITS:** mg/L

SAMPLE ID	LAB NO.	DATE SAMPLED	TIME SAMPLED	BATCH ID	DATE ANALYZED	MRL	SAMPLE CONC	GRO PATTERN
MW-1	78377	06/29/09	14:00	070109W1	07/01/09	0.050	ND	
MW-2	78378	06/29/09	14:40	070109W1	07/01/09	0.050	4.57	
MW-3	78379	06/29/09	15:10	070109W1	07/01/09	0.050	0.547	
MW-4	78380	06/29/09	15:55	070109W1	07/01/09	0.050	5.46	

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: RAK
DATE: 7/16/09

K PRIME, INC.
LABORATORY QUALITY CONTROL REPORT

METHOD BLANK ID: B070109W1
SAMPLE TYPE: WATER

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

BATCH #: 070109W1
DATE EXTRACTED: 07/02/09
DATE ANALYZED: 07/02/09

UNITS: mg/L

COMPOUND NAME	REPORTING LIMIT	SAMPLE CONC
TPH-G	0.050	ND

SAMPLE ID: L070109W1
DUPLICATE ID: D070109W1
BATCH #: 070109W1
SAMPLE TYPE: WATER
UNITS: mg/L

DATE EXTRACTED: 07/02/09
DATE ANALYZED: 07/02/09

ACCURACY (MATRIX SPIKE)

PARAMETER	SPIKE ADDED	SAMPLE RESULT	SPIKE RESULT	RECOVERY (%)	LIMITS (%)
TPH-G	0.250	ND	0.248	99	60-140

PRECISION (SPIKE DUPLICATE)

COMPOUND NAME	REPORTING LIMIT	SPIKE RESULT	DUPLICATE RESULT	RPD (%)	LIMITS (%)
TPH-G	0.050	0.248	0.234	5.8	±20

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

K PRIME, INC.
LABORATORY REPORT

SAMPLE ID: MW-1
LAB NO: 78377
DATE SAMPLED: 06/29/09
TIME SAMPLED: 14:00
BATCH #: 070109W1
DATE ANALYZED: 7/6/09

K PRIME PROJECT: 9946
CLIENT PROJECT: WICKLAND.OAKLAND

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
TRICHLOROFLUOROMETHANE	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	12.3
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	5.22
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	12.4
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

SAMPLE ID: MW-1
LAB NO: 78377
DATE SAMPLED: 06/29/09
TIME SAMPLED: 14:00
K PRIME PROJECT: 9946
BATCH #: 070109W1
CLIENT PROJECT: WICKLAND,OAKLAND
DATE ANALYZED: 7/6/09

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

SURROGATE RECOVERY	%
DIBROMOFLUOROMETHANE	88
TOLUENE-D8	91
4-BROMOFLUOROBENZENE	92

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

APPROVED BY: _____
DATE: 7/16/09

K PRIME, INC.
LABORATORY REPORT

SAMPLE ID: MW-2
LAB NO: 78378
DATE SAMPLED: 06/29/09
TIME SAMPLED: 14:40
K PRIME PROJECT: 9946
BATCH #: 070109W1
CLIENT PROJECT: WICKLAND,OAKLAND
DATE ANALYZED: 7/6/09

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	2.50	ND
CHLOROMETHANE	74-87-3	2.50	ND
VINYL CHLORIDE	75-01-4	2.50	ND
BROMOMETHANE	74-83-9	2.50	ND
CHLOROETHANE	75-00-3	2.50	ND
TRICHLOROFLUOROMETHANE	75-69-4	2.50	ND
1,1-DICHLOROETHENE	75-35-4	2.50	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	2.50	ND
METHYLENE CHLORIDE	75-09-2	12.5	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	2.50	ND
1,1-DICHLOROETHANE	75-34-3	2.50	ND
CIS-1,2-DICHLOROETHENE	156-59-2	2.50	ND
2,2-DICHLOROPROPANE	594-20-7	2.50	ND
BROMOCHLOROMETHANE	74-97-5	2.50	ND
CHLOROFORM	67-66-3	2.50	ND
1,1,1-TRICHLOROETHANE	71-55-6	2.50	ND
CARBON TETRACHLORIDE	56-23-5	2.50	ND
1,1-DICHLOROPROPENE	563-58-6	2.50	ND
BENZENE	71-43-2	2.50	193
1,2-DICHLOROETHANE	107-06-2	2.50	ND
TRICHLOROETHENE	79-01-6	2.50	ND
1,2-DICHLOROPROPANE	78-87-5	2.50	ND
DIBROMOMETHANE	74-95-3	2.50	ND
BROMODICHLOROMETHANE	75-27-4	2.50	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	2.50	ND
TOLUENE	108-88-3	2.50	9.31
CIS-1,3-DICHLOROPROPENE	10061-01-5	2.50	ND
1,1,2-TRICHLOROETHANE	79-00-5	2.50	ND
TETRACHLOROETHENE	127-18-4	2.50	ND
1,3-DICHLOROPROPANE	142-28-9	2.50	ND
DIBROMOCHLOROMETHANE	124-48-1	2.50	ND
1,2-DIBROMOETHANE	106-93-4	2.50	ND
CHLOROBENZENE	108-90-7	2.50	ND
1,1,1,2-TETRACHLOROETHANE	630-20-6	2.50	ND
ETHYLBENZENE	100-41-4	2.50	113
XYLENE (M+P)	1330-20-7	2.50	48.3
XYLENE (O)	1330-20-7	2.50	4.79
STYRENE	100-42-5	2.50	ND
BROMOFORM	75-25-2	2.50	ND
ISOPROPYLBENZENE	98-82-8	2.50	60.1
1,1,2,2-TETRACHLOROETHANE	79-34-5	2.50	ND
BROMOBENZENE	108-86-1	2.50	ND
1,2,3-TRICHLOROPROPANE	96-18-4	2.50	ND
N-PROPYLBENZENE	103-65-1	2.50	98.4
2-CHLOROTOLUENE	95-49-8	2.50	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	2.50	8.08

K PRIME, INC.
LABORATORY REPORT

SAMPLE ID: MW-2
LAB NO: 78378
DATE SAMPLED: 06/29/09
TIME SAMPLED: 14:40
K PRIME PROJECT: 9946 BATCH #: 070109W1
CLIENT PROJECT: WICKLAND.OAKLAND DATE ANALYZED: 7/6/09

METHOD: VOLATILE ORGANIC COMPOUNDS SAMPLE TYPE: WATER
REFERENCE: EPA 5030/8260 UNITS: ug/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
4-CHLOROTOLUENE	106-43-4	2.50	ND
TERT-BUTYLBENZENE	98-06-6	2.50	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	2.50	20.5
SEC-BUTYLBENZENE	135-98-8	2.50	11.6
1,3-DICHLOROBENZENE	541-73-1	2.50	ND
4-ISOPROPYLTOLUENE	99-87-6	2.50	ND
1,4-DICHLOROBENZENE	106-46-7	2.50	ND
N-BUTYLBENZENE	104-51-8	2.50	15.5
1,2-DICHLOROBENZENE	95-50-1	2.50	ND
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	2.50	ND
1,2,4-TRICHLOROBENZENE	120-82-1	5.00	ND
HEXACHLOROBUTADIENE	87-68-3	5.00	ND
NAPHTHALENE	91-20-3	5.00	31.3
1,2,3-TRICHLOROBENZENE	87-61-6	5.00	ND
METHYL TERT-BUTYL ETHER (MTBE)	1634-04-4	2.50	ND

SURROGATE RECOVERY	%
DIBROMOFLUOROMETHANE	86
TOLUENE-D8	94
4-BROMOFLUOROBENZENE	100

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

APPROVED BY: _____
DATE: 7/16/09

K PRIME, INC.
LABORATORY REPORT

SAMPLE ID: MW-3
LAB NO: 78379
DATE SAMPLED: 06/29/09
TIME SAMPLED: 15:10
K PRIME PROJECT: 9946 BATCH #: 070109W1
CLIENT PROJECT: WICKLAND.OAKLAND DATE ANALYZED: 7/8/09

METHOD: VOLATILE ORGANIC COMPOUNDS SAMPLE TYPE: WATER
REFERENCE: EPA 5030/8260 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
TRICHLOROFLUOROMETHANE	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	0.780
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	1.33
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	21.3
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	11.2
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	23.4
2-CHLOROTOLUENE	95-49-8	0.500	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	0.500	ND

K PRIME, INC.
LABORATORY REPORT

SAMPLE ID: MW-3
LAB NO: 78379
DATE SAMPLED: 06/29/09
TIME SAMPLED: 15:10
K PRIME PROJECT: 9946 BATCH #: 070109W1
CLIENT PROJECT: WICKLAND.OAKLAND DATE ANALYZED: 7/8/09

METHOD: VOLATILE ORGANIC COMPOUNDS SAMPLE TYPE: WATER
REFERENCE: EPA 5030/8260 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	0.900
1,2,4-TRIMETHYLBENZENE	95-63-6	0.500	ND
SEC-BUTYLBENZENE	135-98-8	0.500	2.58
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	2.12
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	10.1
1,2,3-TRICHLOROBENZENE	87-61-6	1.00	ND
METHYL TERT-BUTYL ETHER (MTBE)	1634-04-4	0.500	ND

SURROGATE RECOVERY	%
DIBROMOFLUOROMETHANE	86
TOLUENE-D8	94
4-BROMOFLUOROBENZENE	98

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

APPROVED BY: _____
DATE: 7/14/09

K PRIME, INC.
LABORATORY REPORT

SAMPLE ID: MW-4
LAB NO: 78380
DATE SAMPLED: 06/29/09
TIME SAMPLED: 15:55
K PRIME PROJECT: 9946 BATCH #: 070109W1
CLIENT PROJECT: WICKLAND.OAKLAND DATE ANALYZED: 7/6/09

METHOD: VOLATILE ORGANIC COMPOUNDS SAMPLE TYPE: WATER
REFERENCE: EPA 5030/8260 UNITS: ug/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	20.0	ND
CHLOROMETHANE	74-87-3	20.0	ND
VINYL CHLORIDE	75-01-4	20.0	ND
BROMOMETHANE	74-83-9	20.0	ND
CHLOROETHANE	75-00-3	20.0	ND
TRICHLOROFLUOROMETHANE	75-69-4	20.0	ND
1,1-DICHLOROETHENE	75-35-4	20.0	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	20.0	ND
METHYLENE CHLORIDE	75-09-2	100	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	20.0	ND
1,1-DICHLOROETHANE	75-34-3	20.0	ND
CIS-1,2-DICHLOROETHENE	156-59-2	20.0	ND
2,2-DICHLOROPROPANE	594-20-7	20.0	ND
BROMOCHLOROMETHANE	74-97-5	20.0	ND
CHLOROFORM	67-66-3	20.0	ND
1,1,1-TRICHLOROETHANE	71-55-6	20.0	ND
CARBON TETRACHLORIDE	56-23-5	20.0	ND
1,1-DICHLOROPROPENE	563-58-6	20.0	ND
BENZENE	71-43-2	20.0	ND
1,2-DICHLOROETHANE	107-06-2	20.0	ND
TRICHLOROETHENE	79-01-6	20.0	ND
1,2-DICHLOROPROPANE	78-87-5	20.0	ND
DIBROMOMETHANE	74-95-3	20.0	ND
BROMODICHLOROMETHANE	75-27-4	20.0	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	20.0	ND
TOLUENE	108-88-3	20.0	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	20.0	ND
1,1,2-TRICHLOROETHANE	79-00-5	20.0	ND
TETRACHLOROETHENE	127-18-4	20.0	ND
1,3-DICHLOROPROPANE	142-28-9	20.0	ND
DIBROMOCHLOROMETHANE	124-48-1	20.0	ND
1,2-DIBROMOETHANE	106-93-4	20.0	ND
CHLOROBENZENE	108-90-7	20.0	ND
1,1,1,2-TETRACHLOROETHANE	630-20-6	20.0	ND
ETHYLBENZENE	100-41-4	20.0	52.5
XYLENE (M+P)	1330-20-7	20.0	ND
XYLENE (O)	1330-20-7	20.0	ND
STYRENE	100-42-5	20.0	ND
BROMOFORM	75-25-2	20.0	ND
ISOPROPYLBENZENE	98-82-8	20.0	71.5
1,1,2,2-TETRACHLOROETHANE	79-34-5	20.0	ND
BROMOBENZENE	108-86-1	20.0	ND
1,2,3-TRICHLOROPROPANE	96-18-4	20.0	ND
N-PROPYLBENZENE	103-65-1	20.0	229
2-CHLOROTOLUENE	95-49-8	20.0	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	20.0	ND

K PRIME, INC.
LABORATORY REPORT

SAMPLE ID: MW-4
LAB NO: 78380
DATE SAMPLED: 06/29/09
TIME SAMPLED: 15:55
BATCH #: 070109W1
DATE ANALYZED: 7/6/09

K PRIME PROJECT: 9946
CLIENT PROJECT: WICKLAND,OAKLAND

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	20.0	ND
TERT-BUTYLBENZENE	98-06-6	20.0	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	20.0	ND
SEC-BUTYLBENZENE	135-98-8	20.0	ND
1,3-DICHLOROBENZENE	541-73-1	20.0	ND
4-ISOPROPYLTOLUENE	99-87-6	20.0	ND
1,4-DICHLOROBENZENE	106-46-7	20.0	ND
N-BUTYLBENZENE	104-51-8	20.0	52.5
1,2-DICHLOROBENZENE	95-50-1	20.0	ND
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	20.0	ND
1,2,4-TRICHLOROBENZENE	120-82-1	40.0	ND
HEXACHLOROBUTADIENE	87-68-3	40.0	ND
NAPHTHALENE	91-20-3	40.0	ND
1,2,3-TRICHLOROBENZENE	87-61-6	40.0	ND
METHYL TERT-BUTYL ETHER (MTBE)	1634-04-4	20.0	ND

SURROGATE RECOVERY	%
DIBROMOFLUOROMETHANE	82
TOLUENE-D8	92
4-BROMOFLUOROBENZENE	94

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

APPROVED BY: _____
DATE: 7/14/09

K PRIME, INC.
LABORATORY METHOD BLANK REPORT

METHOD BLANK ID: B070109W1

BATCH #: 070109W1
DATE ANALYZED: 7/2/09

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
TRICHLOROFLUOROMETHANE	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: B070109W1

BATCH #: 070109W1
DATE ANALYZED: 7/2/09

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

SURROGATE RECOVERY	%
DIBROMOFLUOROMETHANE	84
TOLUENE-D8	90
4-BROMOFLUOROBENZENE	94

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: B070109W1
SPIKE ID: L070109W1
DUPLICATE ID: D070109W1
BATCH #: 070109W1
SAMPLE TYPE: WATER
UNITS: µg/L

ACCURACY (MATRIX SPIKE)

PARAMETER	SPIKE ADDED	SAMPLE RESULT	SPIKE RESULT	RECOVERY (%)	LIMITS (%)
1,1 DICHLOROETHENE	10.0	ND	8.26	83	60-140
BENZENE	10.0	ND	6.93	69	60-140
TRICHLOROETHENE	10.0	ND	7.38	74	60-140
TOLUENE	10.0	ND	7.39	74	60-140
CHLOROBENZENE	10.0	ND	9.88	99	60-140

PRECISION (SPIKE DUPLICATE)

COMPOUND NAME	REPORTING LIMIT	SPIKE RESULT	DUPLICATE RESULT	RPD (%)	LIMITS (%)
1,1 DICHLOROETHENE	0.500	8.26	9.21	10.9	±20
BENZENE	0.500	6.93	7.33	5.6	±20
TRICHLOROETHENE	0.500	7.38	7.64	3.5	±20
TOLUENE	0.500	7.39	7.53	1.9	±20
CHLOROBENZENE	0.500	9.88	10.2	3.6	±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
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	78377	6/29/2009	061809W1	7/1/2009	7/1/2009	0.050	0.059	
MW-2	78378	6/29/2009	061809W1	7/1/2009	7/1/2009	0.050	0.707	AK
MW-3	78379	6/29/2009	061809W1	7/1/2009	7/1/2009	0.050	0.234	AK
MW-4	78380	6/29/2009	061809W1	7/1/2009	7/1/2009	0.050	1.19	AK

NOTES:

DRO	Diesel Range Organics (C12-C34)
ND	Not Detected at or above the stated MRL
NA	Not Applicable or Available
MRL	Method Reporting Limit
AD	Typical pattern for diesel
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: _____
DATE: 7/14/09

K PRIME, INC.
LABORATORY QUALITY CONTROL REPORT

BATCH ID: 061809W1
DATE EXTRACTED: 06/18/09
DATE ANALYZED: 06/19/09

METHOD: DRO
REFERENCE: EPA 8015C

SAMPLE TYPE: WATER
UNITS: mg/L

METHOD BLANK ID: B061809W1

COMPOUND NAME	REPORTING LIMIT	SAMPLE CONC
DRO	0.050	ND

SAMPLE ID: L061809W1
DUPLICATE ID: D061809W1

ACCURACY (MATRIX SPIKE)

PARAMETER	SPIKE ADDED	SAMPLE RESULT	SPIKE RESULT	RECOVERY (%)	LIMITS (%)
DRO	2.50	ND	2.21	88	60-140

PRECISION (SPIKE DUPLICATE)

COMPOUND NAME	REPORTING LIMIT	SPIKE RESULT	DUPLICATE RESULT	RPD (%)	LIMITS (%)
DRO	0.050	2.21	2.18	1.0	±20

NOTES:
DRO - DIESEL RANGE ORGANICS (C12-C34)
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
NA - NOT APPLICABLE OR AVAILABLE

WEST Environmental Services & Technology
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: 6·30·09**		**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 (days)**	1	2	3	5	7	10	**Std.**						
Sampler Signature:														X						
							Analyses Requested													
Sample ID	Date	Time	Type	# Containers	Composite	VOCs/BTEX/MTBE (USEPA8260B)	TPHd/TPHg (USEPA 8015M)							KP/H				HOLD		
MW-1	6.29.09	14:00	W	5		X	X							78377						
MW-2	"	14:40	W	5		X	X							78378						
MW-3	"	15:10	W	5		X	X							78379						
MW-4	"	15:55	W	5		X	X							78380						
~~Trip Blank~~ MW-8	"	16:30	W	5										78381					X	
NOTES: *Please provide EDF for all data																				
Relinquished by: (Signature)		Date/Time				Received by: (Signature)								Date/Time						
		6/30/09 12:03												6/30/09 12:03 PM						
Relinquished by: (Signature)		Date/Time				Received by: (Signature)								Date/Time						
		6/30/09 1:13 PM												6/30/09 1:14						