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By Ioprojectop at 9:25 am, May 10, 2006

Mr. Jerry Wickham
Hazardous Materials Specialist
Alameda County Health Care Services Agency
Environmental Health Services
Environmental Protection
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

RE: Eagle Gas Station
4301 San Leandro Street
Oakland, California 94601
LOP StID# 2118
Fuel Leak Case No. RO0000096
USTCF Claim No. 014551
Clearwater Group Project # ZP046

Dear Mr. Wickham,

As the legally authorized representative of the above-referenced project location I have reviewed the following lists of reports prepared by my consultant of record, Clearwater Group, Inc. I declare, under penalty of perjury, that the information and/or recommendations contained in each report listed below are true and correct to the best of my knowledge.

- *Recommendations for Interim Site Remediation* dated June 13, 2005.
- *Soil and Groundwater Investigation Work Plan* dated August 10, 2005.
- *3) Response to Comments (RTC)* dated October 6, 2005.
- *4) Notice for Interim Remediation Groundwater Treatment Pilot* dated November 1, 2005.
- *Workplan for Ozone Bench Test* dated December 19, 2005.
- *Request for Extension of the Interim Remediation Start-up Report* dated January 11, 2006.
- *Activity Status Report/Request for Extension of the Soil and Groundwater Investigation Report* on March 1, 2006.
- *Bench Test for Using Advanced Oxidation - A Summary Report* dated March 22, 2006.
- *Groundwater Monitoring Reports First Quarter through Fourth Quarter 2005.*

Sincerely,



Mr. Muhammad Jamil

CLEARWATER
G R O U P
Environmental Services

June 13, 2005

Mr. Jerry Wickham
Alameda County Environmental Health Services
Environmental Protection Division
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

FILE

RECEIVED

By lopprojectop at 9:26 am, May 10, 2006

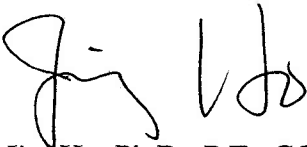
RE: *Groundwater Monitoring Report, Second Quarter 2005*
Eagle Gas Station
4301 San Leandro Street
Oakland, California 94601
LOP StID# 2118
USTCF Claim No. 014551
Clearwater Group Project # ZP046C

Dear Mr. Wickham,

Enclosed please find a copy of the *Second Quarter 2005 Groundwater Monitoring Report* for the above referenced project location. We have received a copy of your May 26, 2005 letter including your comments on our IRAP and the first quarter 2005 groundwater monitoring report. Thank you so much. We will perform the requested tasks and submit the associated reports according to the schedule included in your letter.

Due to the existence of a significant groundwater gradient and high concentrations of MTBE and TBA under the site, the potential of MTBE and TBA off-site migration exists. To prevent or reduce the anticipated migration of MTBE and TBA off site, Clearwater recommends that an interim site remediation shall be implemented as soon as possible. If there are any questions regarding the information as it is presented in the plan, please do not hesitate to contact our office at 510-307-9943 ext 231.

Sincerely,
Clearwater Group



Jim Ho, Ph.D., P.E., CGWP
Principal Engineer

Enclosure

CLEARWATER
G R O U P
Environmental Services

June 13, 2005

Mr. Leroy Griffin, Unit Supervisor
Hazardous Materials Unit
Oakland Fire Department
1605 Martin Luther King, Jr.
Oakland, California 94612

FILE

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By loprojectop at 9:26 am, May 10, 2006

RE: *Groundwater Monitoring Report, Second Quarter 2005*
Eagle Gas Station
4301 San Leandro Street
Oakland, California 94601
LOP StID# 2118
USTCF Claim No. 014551
Clearwater Group Project # ZP046C

Dear Mr. Griffin:

Enclosed please find a copy of the *Second Quarter 2005 Groundwater Monitoring Report* prepared for the above-referenced project location.

Although we have not received your review comments regarding the Interim Remedial Action Plan (IRAP), we have received comments from the Alameda County Environmental Health Services (ACEHS) in a letter dated on May 26, 2005 for the Interim Remedial Action Plan (IRAP) submitted on January 14, 2004. At the request of ACEHS, a Work Plan for Soil and Groundwater Investigation and IRAP with an initial SCM should be submitted by August 10, 2005. We will prepare the Work Plan and follow up with the ACEHS and Oakland Fire Department regarding the investigation and remediation work for the site. If there are any questions regarding the status of the project, please do not hesitate to contact my office at 510-307-9943 ext 231.

Sincerely,
Clearwater Group



Jim Ho, Ph.D., P.E., CGWP
Principal Engineer

Enclosure

CLEARWATER
G R O U P
Environmental Services

June 13, 2005

Mr. Muhammad Jamil
40092 Davis Street
Fremont, CA 94538

FILE

RE: *Groundwater Monitoring Report, Second Quarter 2005*
Eagle Gas Station
4301 San Leandro Street
Oakland, California 94601
LOP StID# 2118
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Clearwater Group Project # ZP046C

RECEIVED

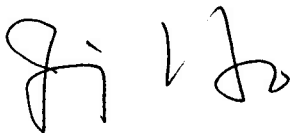
By loprojectop at 9:26 am, May 10, 2006

Dear Mr. Jamil,

Enclosed please find a copy of the *Second Quarter 2005 Groundwater Monitoring Report* prepared for the above-referenced project location. I have forwarded the original to the Hazardous Materials Unit, Oakland Fire Department and the San Francisco Bay Regional Water Quality Control Board on your behalf.

We have received comments from the Alameda County Environmental Health Services (ACEHS) in a letter dated on May 26, 2005 for our Interim Remedial Action Plan (IRAP) submitted on January 14, 2004. At the request of ACEHS, a Work Plan for Soil and Groundwater Investigation and IRAP with an initial SCM should be submitted by August 10, 2005. We will prepare the Work Plan and follow up with the ACEHS regarding the investigation and remediation work for the site. If there are any questions regarding the status of the project, please do not hesitate to contact my office at 510-307-9943 ext 231.

Sincerely,
Clearwater Group



Jim Ho, Ph.D., P.E., CGWP
Principal Engineer

Enclosure

CLEARWATER
G R O U P
Environmental Services

June 13, 2005

San Francisco Bay
Regional Water Quality Control Board
1515 Clay Street, Suite 1400
Oakland, CA 94612

FILE

RECEIVED

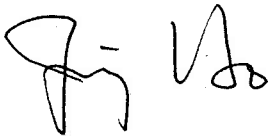
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RE: *Groundwater Monitoring Report, Second Quarter 2005*
Eagle Gas Station
4301 San Leandro Street
Oakland, California 94601
LOP StID# 2118
USTCF Claim No. 014551
Clearwater Group Project # ZP046C

Dear Sir/Madam:

Enclosed please find a copy of the *Second Quarter 2005 Groundwater Monitoring Report* prepared for the above-referenced site for your files. If there are any questions regarding the status of the project, please do not hesitate to contact my office at 510-307-9943 ext 231.

Sincerely,
Clearwater Group



Jim Ho, Ph.D., P.E., CGWP
Principal Engineer

Enclosure

13 June 2005

CLEARWATER G R O U P

Environmental Services

Mr. Jerry Wickham
Hazardous Materials Specialist
Alameda County Environmental Health Services
Environmental Protection Division
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

FILE

RECEIVED

By loprojectop at 9:26 am, May 10, 2006

Re: *Quarterly Groundwater Monitoring Report - Second Quarter 2005*
Eagle Gas Station
4301 San Leandro Street
Oakland, California 94601
LOP Site ID# 2118
USTCF Claim No. 014551
Clearwater Project No. ZP046C

Dear Mr. Wickman:

Clearwater Group (Clearwater) has prepared a Quarterly Groundwater Monitoring Report for the subject site. This report presents the Second Quarter 2005 groundwater monitoring activities and associated results. The groundwater samples were collected in accordance with standard environmental field protocols, and were submitted to a California-certified analytical laboratory for analysis of Total Petroleum Hydrocarbons as gasoline (TPH-g), Total Petroleum Hydrocarbons as diesel (TPH-d), benzene, toluene, ethylbenzene, xylenes (BTEX), and five fuel oxygenates including Methyl Tert-Butyl Ether (MTBE) and Ter-Butyl Alcohol (TBA). Groundwater monitoring was requested by the Alameda County Environmental Health Services (ACEHS) in a letter dated October 18, 2001. To prevent or reduce the anticipated migration of MTBE and TBA off site, Clearwater recommends that an interim site remediation shall be implemented as soon as possible.

SITE DESCRIPTION

The site is located in the southern portion of Oakland, Alameda County, California at the southern corner of the intersection of San Leandro Street and High Street, and is approximately 1,000 feet east of Interstate Highway 880. The site is bounded by commercial property to the southeast, southwest and northwest and by the Bay Area Rapid Transit (BART) tracks to the northeast (Figure 1.) The site is underlain predominantly by clays with some clayey gravel and clayey sand at depths to approximately 10 feet below ground surface (bgs), and silty sand below 20 feet in some areas.

BACKGROUND

On April 21 and 22, 1999, Clearwater oversaw the removal from the site of five underground storage tanks (USTs) consisting of two 6,000-gallon gasoline tanks, two 4,000-gallon diesel tanks, and one 300-gallon used oil tank. Strong petroleum odors were detected from soils near the former UST locations during field observation. A total of five soil samples and three groundwater samples were collected from the UST excavations for confirmation. Laboratory analysis confirmed that an unauthorized release of petroleum had occurred. The former UST excavation area is shown in Figure 2.

In a letter dated 10 May 1999, the ACEHS recommended that soil be remediated by over-excavation and "as much groundwater as possible" be pumped from the excavation. Approximately 800 tons of petroleum-impacted soils were excavated and disposed of as Class II non-hazardous waste; and approximately 1,000 gallons of petroleum-impacted groundwater was pumped and removed from the site. Groundwater did not recharge quickly after the initial pumping. Existing on- and off-site structures limited the amount of soil that could be safely excavated; soil samples collected from the excavation walls and product-piping trenches indicated that residual petroleum and MTBE concentrations still existed.

On August 4 and 5, 1999, approximately 100 linear feet of product piping was removed. Vent piping from between the former USTs and the south corner of the on-site building was also removed. All piping was cut up and disposed of as scrap metal. On August 5, 1999, confirmation soil samples were collected along the piping trench. Six samples were collected from approximately three feet bgs. An additional four samples were collected, one for each of the four former fuel dispensers. Laboratory analytical results indicated that hydrocarbon-related contamination existed along the piping trenches.

On September 26, 2000 West Hazmat of Rancho Cordova, California, used a CME 75 drill rig to advance three borings to approximately 25 feet bgs and collect soil samples. Each of the three borings was converted to a groundwater-monitoring well (see Figure 2) using clean, flush-threaded, 2-inch diameter polyvinyl chloride (PVC) for well casing. Construction data of these wells are presented in Table 1.

On 3 and 10 October 2000, Clearwater surveyed the top of the casing elevation for each of the well relative to an arbitrary datum; and developed the wells for monitoring purpose. Initial groundwater samples collected from these wells contained 83,000 micrograms per liter ($\mu\text{g/L}$) to 250,000 $\mu\text{g/L}$ TPH-g and 33,000 $\mu\text{g/L}$ to 400,000 $\mu\text{g/L}$ MTBE. The historical groundwater monitoring and sampling results are listed in Table 2.

On August 3, 2001 Clearwater submitted its *Groundwater Monitoring Report - Second Quarter 2001* and *Sensitive Receptor Survey and Workplan for Continuing Investigation*. It was determined, at that time, that there were no major ecological receptors, permanent surface waters or domestic use wells within a 2,000-foot radius of the site. The proposed scope of the workplan included the installation of eight groundwater monitoring wells

around the site to delineate the MTBE plume in groundwater. In response to Clearwater's workplan, the ACEHS, in a correspondence dated 18 October 2001, recommended not to install off-site monitoring wells for the time being. Instead, the ACEHS requested that further characterization of subsurface soils and groundwater on site be completed prior to the installation of any off-site wells.

Quarterly monitoring did not occur after the third quarter 2001 event that took place on August 3, 2001. Quarterly monitoring resumed in July 2003 and has continued every quarter since then.

On January 9, 2004, after completing its review of the Third Quarter 2003 Groundwater Monitoring Report, ACEHS requested a work plan to address additional on-site and off-site subsurface investigations and the extent of groundwater impact on site. Clearwater, then, submitted an Interim Remedial Action Plan (IRAP) on 14 January 2004.

In order to expedite the implementation of the IRAP, Clearwater formally requested Oakland Fire Department to review the IRAP and the Fourth Quarter 2004 groundwater monitoring report as well as to oversee the project. The Fire Department verbally agreed to oversee this project. The correspondence was shown in letters to the Fire Department dated on 3 and 15 December 2004. Fire Department turned project over to ACEHS. ACEHS provided its review comments for the IRAP and the *First Quarter 2005 Groundwater Monitoring Report* on 26 May 2005.

GROUNDWATER MONITORING ACTIVITIES

Groundwater Gauging, Purging, and Sampling

On 9 May 2005 all three on-site monitoring wells were monitored. An electronic water level indicator accurate to within ± 0.01 feet was used to gauge the depth to water. All wells were checked for the presence of Separate Phase Hydrocarbons (SPH) prior to purging.

All the wells were purged of groundwater until measurements of temperature, pH, and conductivity stabilized, which occurred by approximately three wetted casing volumes, prior to groundwater sampling. Depth to water and well purging information was recorded on Purging Data/Purging Calculations and Gauging Data sheets (see Attachment 1). Purging devices were decontaminated between wells in an Alconox® wash followed by double rinsing in clean tap water to prevent cross-contamination. Purge water and rinseate were contained in labeled 55-gallons drums and removed from the site for future disposal. Following recovery of water levels to at least 80% of their static levels, groundwater samples were collected from the monitoring wells using disposable polyethylene bailers. Samples were labeled, documented on a chain-of-custody form, and placed on ice in a cooler for transport to the project laboratory.

All work was performed in accordance with Clearwater's Groundwater Monitoring and Sampling Field Procedures (see Attachment 2).

Laboratory Analysis

Groundwater samples were analyzed by Kiff Analytical LLC, a California Department of Health Services certified laboratory, located in Davis, California. Analyses were conducted by EPA Method 8260B for TPH-g, BTEX, and five oxygenates including MTBE, di-isopropyl ether (DIPE), ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), and tertiary butyl alcohol (TBA). Analysis for TPH-d was conducted by EPA Method 8015M. Complete laboratory analytical reports including chain-of-custody forms are included in Attachment 3.

GROUNDWATER MONITORING RESULTS

Groundwater Elevation and Flow

Although no SPH was found in any well, sheen was found in monitoring well MW-1; and strong odors were detected in all three wells. Depths to water ranged from approximately 9.58 feet (MW-1) to 13.62 (MW-2) feet bgs (see Table 2). Depth to water data combined with the surveyed top of casing elevation was used to calculate the groundwater elevation. The calculated elevation ranged from 8.79 ft to 6.76 ft above mean sea level. A groundwater elevation contour map was also generated and shown in Figure 3. During this monitoring event, groundwater was flowing in the southeast direction. The associated gradient was approximately 0.024 ft/ft. The identified groundwater gradient was generally consistent with observations from the previous groundwater-monitoring event. Groundwater flow for the First Quarter 2005 monitoring event was in a southeasterly direction with a gradient of 0.028 ft/ft.

Laboratory Analytical Results

Diesel-range hydrocarbons were detected in samples collected from all three groundwater-monitoring wells. Concentrations of TPH-d ranged from 320 µg/L (MW-3) to 1,700 µg/L (MW-1). MTBE was detected in samples collected from all three monitoring wells in concentrations ranging from 11,000 µg/L (MW-1) to 570,000 µg/L (MW-2). Detections of TAME were reported this quarter in all three wells with concentrations ranging from 53 µg/L (MW-1) to 2,300 µg/L (MW-2). Samples collected from MW-1, MW-2, and MW-3 contained reportable concentrations of TBA at a concentration of 200,000 µg/L, 32,000 µg/L and 30,000 µg/L, respectively. The Method Reporting Limits for TPH-g and BTEX were relatively high due to the interference of high concentration of MTBE and TBA. As a result, no measurable concentrations of TPH-g and BTEX were reported. Laboratory analytical results are listed in Table 2 and also shown on Figure 4.

Although concentrations of petroleum hydrocarbons are not significantly high as to demonstrate a high level of groundwater impact by them, high concentrations of MTBE and TBA suggest that groundwater under the site has been impacted by oxygenates. In addition, the TBA concentration detected in monitoring well MW-1, which is upgradient

of wells MW-2 and MW-3, is approximately 20 times higher than the MTBE concentration. This situation suggests that oxygenate contamination may have occurred on site for years. Degradation or conversion from MTBE to TBA is occurring at the site.

CONCLUSIONS

Based on the monitoring results discussed above, the following conclusions have been made:

- Elevated concentrations of MTBE and TBA in the groundwater under the site have been confirmed.
- Due to the presence of high concentrations of MTBE and TBA, adverse interference to TPH-g and BTEX analysis has occurred that masks the exact concentrations of TPH-g and BTEX compounds.
- It has been noted that although the trend of MTBE concentration change is decreasing, the trend of TBA concentration is increasing, instead.
- The relatively high ratio of TBA concentration to MTBE concentration in well MW-1 suggests that oxygenates contamination may have occurred on site for years. The increasing level of TBA indicates that a limited amount of biological breakdown from MTBE to TBA is occurring. This natural process probably prevails near wells MW-1 and MW-3.
- Due to the existence of a significant groundwater gradient and high concentrations of MTBE and TBA under the site, the potential of MTBE and TBA off-site migration exists.

FORECAST ACTIVITIES

The ACEHS letter dated 26 May 2005 requested that:

- Quarterly groundwater monitoring should continue in the future. The associated quarterly reports are due on June 30 (2Q05), September 30 (3Q05), and December 30, 2005 (4Q05); and
- A work plan for a soil and groundwater investigation as well as the development of an initial Site Conceptual Model (SCM) due on August 10, 2005 will be submitted.

Clearwater will comply with a request for full three-dimensional definition, investigation, and a proposal for cleanup of soil and groundwater contamination from the unauthorized release at the site including a Soil and Groundwater Investigation, an interim remedial action, and a Corrective Action Plan.

RECOMMENDATIONS

The above activities will be conducted according to the schedule provided in ACHES letter dated 26 May 2005. Clearwater recommends that an interim site remediation should be implemented as soon as possible to prevent or reduce the migration of MTBE and TBA off site.

Figures

- Figure 1: Site Location Map
- Figure 2: Site Plan
- Figure 3: Groundwater Elevation Map - 5/9/05
- Figure 4: Dissolved Hydrocarbon Map - 5/9/05

Tables

- Table 1: Well Construction Data
- Table 2: Groundwater Elevations and Sample Analytical Results

Attachments

- Attachment 1: Well Gauging Data/Purge Calculations, Purging Data
- Attachment 2: Groundwater Monitoring and Sampling Field Procedures
- Attachment 3: Laboratory Analytical Reports and Chain-of-Custody Form

Cc: Mr. Muhammad Jamil
40092 Davis Street
Fremont, CA 94538

Mr. Leroy Griffin, Unit Supervisor
Hazardous Materials Unit
Oakland Fire Department
1605 Martin Luther King, Jr.
Oakland, CA 94612

San Francisco Bay Regional
Water Quality Control Board
1515 Clay Street, Suite 1400
Oakland, CA 94612



CERTIFICATION

This report was prepared under the supervision of a professional Registered Geologist in the State of California. All statements, conclusions and recommendations are based solely upon published results from previous consultants, field observations by Clearwater and laboratory analyses performed by a State of California certified laboratory related to the work performed by Clearwater.

Information and interpretation presented herein are for the sole use of the client and regulating agency. The information and interpretation contained in this document should not be relied upon by a third party.

The service provided by Clearwater has been conducted in a manner consistent with the level of care and skill ordinarily exercised by members of this profession currently practicing under similar conditions in the area of the site. No other warranty, expressed or implied, is made.

Sincerely,
Clearwater Group

Prepared by:

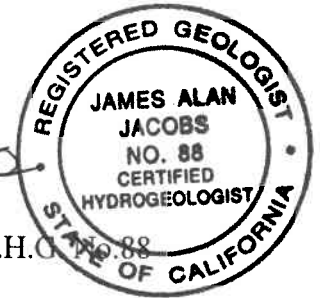
A handwritten signature in black ink, appearing to read "Jim Ho", with a stylized flourish at the end.

Jim Ho, Ph.D., CGWP
Principal Engineer

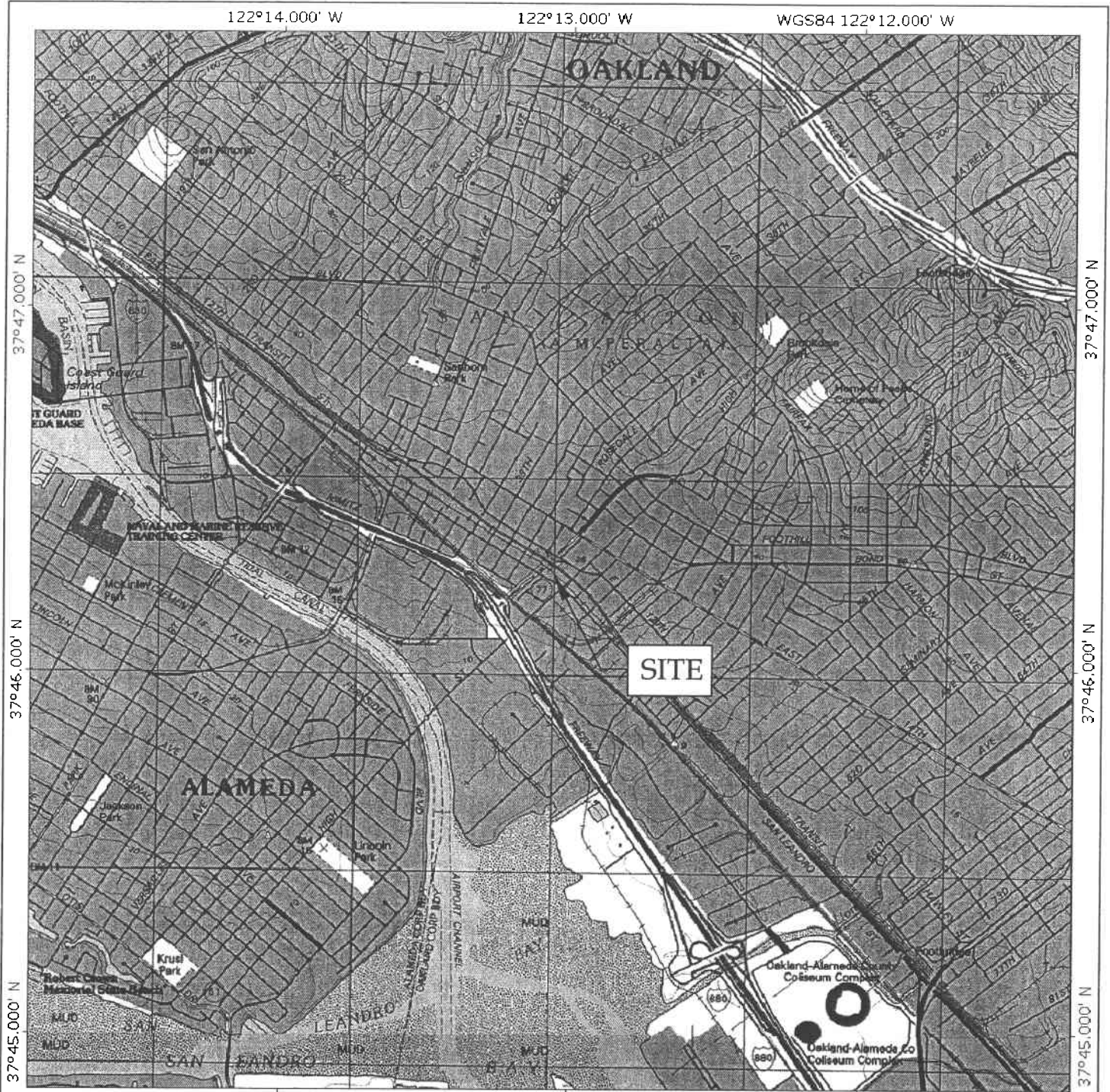
Reviewed by:

A handwritten signature in black ink, appearing to read "James A. Jacobs", written in a cursive style.

James A. Jacobs, R.G. No. 4815; C.H.G. No. 88
Chief Hydrogeologist

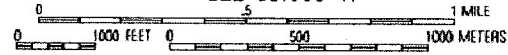


Figures

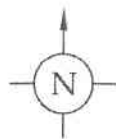


TN
MN
15°

122°14.000' W 122°13.000' W WGS84 122°12.000' W



Map created with TOPO!® ©2002 National Geographic (www.nationalgeographic.com/topo)



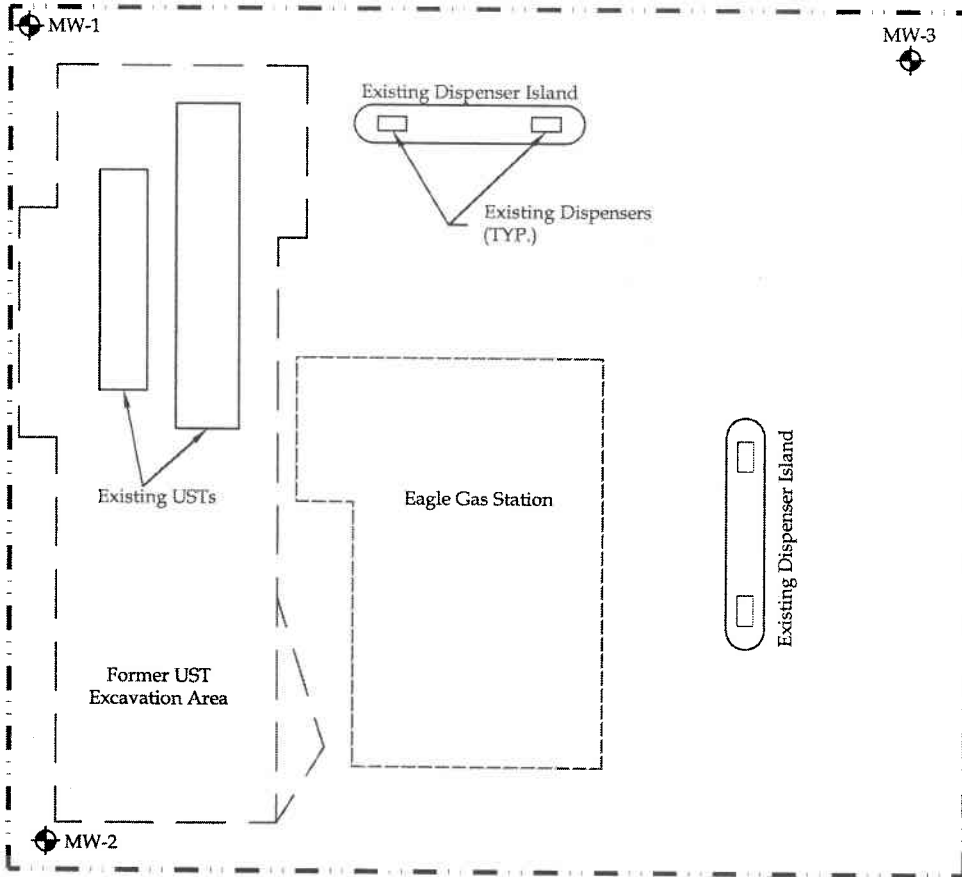
SITE VICINITY MAP
Eagle Gas
4301 San Leandro Street
Oakland, California

CLEARWATER GROUP

Project No. ZP046C	Figure Date 6/05	Figure 1
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HIGH STREET

Public Sidewalk



Adjacent Commercial Structure

Existing USTs

Former UST Excavation Area

MW-2

Eagle Gas Station

Existing Dispenser Island

Existing Dispensers (TYP.)

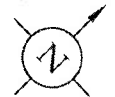
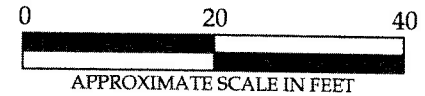
Existing Dispenser Island

MW-3

Public Sidewalk

SAN LEANDRO STREET

BART TRACKS



LEGEND

- - - - - PROPERTY LINE
- ◆ MW-1 MONITORING WELL

SITE MAP
Eagle Gas
4301 San Leandro Street
Oakland, California

CLEARWATER GROUP

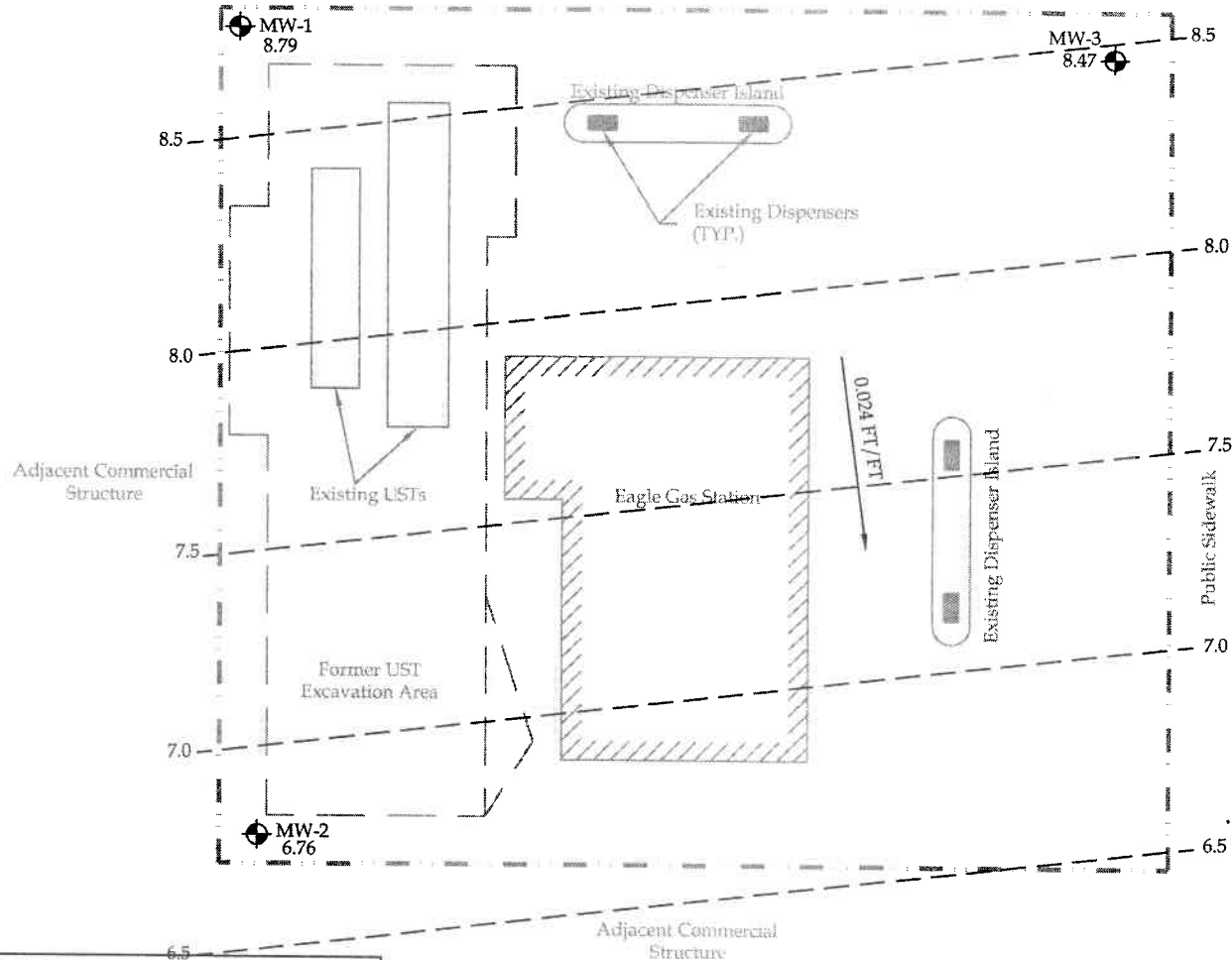
Project No.
ZP046C

Figure Date
6/05

Figure
2

HIGH STREET

Public Sidewalk



SAN LEANDRO STREET

BART TRACKS

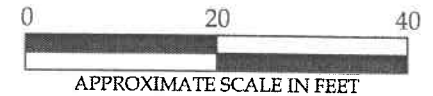
LEGEND

0.028 ft/ft APPROX. GROUNDWATER FLOW DIRECTION & GRADIENT

--- 6.5 GROUNDWATER ELEVATION CONTOUR (HEIGHT IN FEET ABOVE MSL)

- - - - - PROPERTY LINE

⊕ MW-1 MONITORING WELL



GROUNDWATER ELEVATION MAP

May 9, 2005

Eagle Gas
4301 San Leandro Street
Oakland, California

CLEARWATER GROUP

Project No.
ZP046C

Figure Date
06/05

Figure
3

HIGH STREET

Public Sidewalk

MW-1
 TPHd = 1,700
 TPHg <5,000
 B < 50
 T < 50
 E < 50
 X < 50
 MTBE = 11,000
 TAME = 53
 TBA = 200,000

MW-1

MW-3
 TPHd = 320
 TPHg <15,000
 B = <150
 T <150
 E <150
 X <150
 MTBE = 97,000
 TAME = 780
 TBA = 30,000

MW-3

Adjacent Commercial Structure

Existing USTs

Existing Dispenser Island

Existing Dispensers (TYP.)

Eagle Gas Station

Existing Dispenser Island

Public Sidewalk

SAN LEANDRO STREET

MW-2
 TPHd = 1,100
 TPHg <150,000
 B <1,500
 T <1,500
 E <1,500
 X <1,500
 MTBE = 570,000
 TAME = 2,300
 TBA = 32,000

MW-2

Former UST Excavation Area

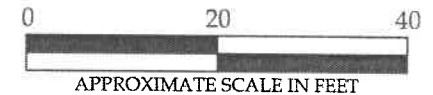
Adjacent Commercial Structure

LEGEND

MW-1
 TPHd = 1,800
 TPHg <10,000
 B < 100
 T <100
 E <100
 X <100
 MTBE = 85,000
 TAME = 390
 TBA = 79,000

CONCENTRATIONS OF: TOTAL PETROLEUM HYDROCARBONS AS DESEIL (TPHd), HYDROCARBONS AS GASOLINE (TPHg), BENZENE (B), TOULENE (T), ETHYLBENZENE (E), TOTAL XYLENES (X), AND METHYL TERT-BUTYL ETHER (MTBE), TERT AMYL METHYL ETHER (TAME), TERTIARY BUTYL ALCOHOL (TBA). ALL CONCENTRATIONS REPORTED IN MICROGRAMS PER LITER (µg/L)

--- PROPERTY LINE
 MW-1 MONITORING WELL



DISSOLVED HYDROCARBON MAP

May 9, 2005
Eagle Gas

4301 San Leandro Street
Oakland, California

CLEARWATER GROUP

Project No.
ZP046C

Figure Date
6/05

Figure
4

Tables

Table 1
WELL CONSTRUCTION DATA
Eagle Gas
 4301 San Leandro Street
 Oakland, California
 Clearwater Group Project No. ZP046A

Well I.D.	Date Installed	Borehole Diameter (inches)	Depth of Borehole (feet)	Casing Diameter (inches)	Screened Interval (feet)	Filter Pack (feet)	Bentonite Seal (feet)	Cement (feet)
MW-1	9/26/2000	8	25	2	10-25	6-25	3-6	0-3
MW-2	9/26/2000	8	25	2	10-25	6-25	3-6	0-3
MW-3	9/26/2000	8	25	2	10-25	6-25	3-6	0-3

Note: All depths and Intervals are below ground surface

TABLE 2
GROUNDWATER ELEVATIONS AND SAMPLE ANALYTICAL RESULTS
 Eagle Gas
 4301 San Leandro Street
 Oakland, California

Sample ID	Sample Date	TOC (feet)	DTW (feet)	GWE (feet)	TPH-d (µg/L)	TPH-g (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TBA (µg/L)
MW-1	10/3/2000	18.37	8.96	9.41	460	93,000	<500	<500	<500	<500	130,000	<10,000	<10,000	<10,000	<2,000
	10/27/2000	18.37	7.27	11.1	---	---	---	---	---	---	---	---	---	---	---
	1/26/2001	18.37	7.60	10.77	1,600*	51,000	270	<100	<100	<100	77,000	<5,000	<5,000	<5,000	<20,000
	5/8/2001	18.37	7.50	10.87	470*	36,000*	<100	<100	<100	<100	15,000	<5,000	<5,000	<5,000	<20,000
	8/3/2001	18.37	7.09	11.28	2,200*	19,000*	<50	59	<50	<50	96,000	<5,000	<5,000	<5,000	<20,000
	7/1/2003	18.37	7.59	10.78	3,000	<25,000	<250	<250	<250	<250	170,000	<250	<250	980	8700
	10/1/2003	18.37	8.36	10.01	2,600	<20,000	<200	<200	<200	<200	69,000	<200	<200	270	15,000
	2/13/2004	18.37	8.80	9.57	1,800	<10,000	<100	<100	<100	<100	85,000	<100	<100	390	79,000
	5/17/2004	18.37	10.92	7.45	5,400	<15,000	<150	<150	<150	<150	60,000	<150	<150	260	160,000
	8/6/2004	18.37	7.76	10.61	510	<10,000	<100	<100	<100	<100	26,000	<100	<100	100	250,000
	11/12/2004	18.37	9.25	9.12	3,500	<5,000	<50	<50	<50	<50	25,000	<50	<50	150	160,000
	2/15/2005	18.37	10.12	8.25	2,900	<5,000	<50	<50	<50	<50	12,000	<50	<50	70	160,000
	5/9/2005	18.37	9.58	8.79	1,700	<5,000	<50	<50	<50	<50	11,000	<50	<50	53	200,000
MW-2	10/3/2000	20.28	20.26	0.02	210	250,000	<1,250	<1,250	<1,250	<1,250	400,000	<25,000	<25,000	<25,000	<100,000
	10/27/2000	20.28	13.88	6.40	---	---	---	---	---	---	---	---	---	---	---
	1/26/2001	20.28	12.10	8.18	6,000*	740,000	3,800	<500	940	1,600	1,000,000	<50,000	<50,000	<50,000	<200,000
	5/8/2001	20.28	12.05	8.23	2,100*	140,000	2,800	<250	780	640	840,000	<50,000	<50,000	<50,000	<200,000
	8/3/2001	20.28	13.30	6.98	2,600*	42,000*	1,100	63	230	130	880,000	<25,000	<25,000	<25,000	<100,000
	7/1/2003	20.28	14.98	5.30	2,200	<200,000	<2,000	<2,000	<2,000	<2,000	790,000	<2,000	<2,000	3,400	<20,000
	10/1/2003	20.28	15.99	4.29	870	<100,000	<1,000	<1,000	<1,000	<1,000	620,000	<1,000	<1,000	2,700	<20,000
	2/13/2004	20.28	13.88	6.40	1200	<20,000	860	<200	260	<200	710,000	<200	<200	2,000	<25,000
	5/17/2004	20.38	14.68	5.70	2,500	<50,000	860	<500	<500	<500	760,000	<500	<500	2,500	13000J
	8/6/2004	20.38	15.36	5.02	420	<50,000	590	<500	<500	<500	810,000	<500	<500	3,600	17,000J
	11/12/2004	20.38	15.49	4.89	500	<150,000	<1500	<1500	<1500	<1500	700,000	<1500	<1500	2,800	25,000J
	2/15/2005	20.38	14.16	6.22	990	<150,000	<1,500	<1,500	<1,500	<1,500	630,000	<1,500	<1,500	2,600	32,000
	5/9/2005	20.38	13.62	6.76	1,100	<150,000	<1,500	<1,500	<1,500	<1,500	570,000	<1,500	<1,500	2,300	32,000

**TABLE 2
GROUNDWATER ELEVATIONS AND SAMPLE ANALYTICAL RESULTS**

Eagle Gas
4301 San Leandro Street
Oakland, California

Sample ID	Sample Date	TOC (feet)	DTW (feet)	GWE (feet)	TPH-d (µg/L)	TPH-g (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TBA (µg/L)
MW-3	10/3/2000	18.98	---	---	120	83,000	<500	<500	<500	<500	33,000	<2,500	<2,500	<2,500	<10,000
	10/27/2000	18.98	18.75	0.23	---	---	---	---	---	---	---	---	---	---	---
	1/26/2001	18.98	13.38	5.60	900*	230,000	930	<500	<500	<500	330,000	<25,000	<25,000	<25,000	<100,000
	5/8/2001	18.98	11.82	7.16	1,100*	95,000	840	<250	<250	<250	390,000	<12,500	<12,500	<12,500	<50,000
	8/3/2001	18.98	13.44	5.54	290*	30,000*	<50	51	<50	<50	270,000	<12,500	<12,500	<12,500	<50,000
	7/1/2003	18.98	12.67	6.31	620	<50,000	<500	<500	<500	<500	230,000	<500	<500	1,800	<5,000
	10/1/2003	18.98	14.04	4.94	370	<20,000	<200	<200	<200	<200	120,000	<200	<200	1,200	<5,000
	2/13/2004	18.98	12.20	6.78	430	<20,000	280	<200	<200	<200	210,000	<200	<200	1,200	<5000
	5/17/2004	18.98	11.87	7.11	920	<25,000	<250	<250	<250	<250	150,000	<250	<250	1,100	5600J
	8/6/2004	18.98	13.07	5.91	78	<20,000	<200	<200	<200	<200	110,000	<200	<200	760	<2,500
	11/12/2004	18.98	12.83	6.15	120	<20,000	<200	<200	<200	<200	100,000	<200	<200	660	6,000
	2/15/2005	18.98	11.95	7.03	130	<25,000	<250	<250	<250	<250	110,000	<250	<250	760	12,000
	5/9/2005	18.98	10.51	8.47	320	<15,000	<150	<150	<150	<150	97,000	<150	<150	780	30,000

NOTES:

- TOC Top of well casing referenced to arbitrary datum
- DTW Depth to water
- GWE Groundwater elevation
- TPHd Total petroleum hydrocarbons as diesel by EPA Method 8015 (modified)
- TPHg Total petroleum hydrocarbons as gasoline by EPA Method 8260B
- BTEX Benzene, toluene, ethylbenzene, total xylenes by EPA Method 8260B
- MTBE Methyl tertiary butyl ether by EPA Method 8260B
- DIPE Di-isopropyl ether by EPA Method 8260B
- ETBE Ethyl tertiary butyl ether by EPA Method 8260B
- TAME Tertiary amyl methyl ether by EPA Method 8260B
- TBA Tertiary butyl alcohol by EPA Method 8260B
- (µg/L) Micrograms per liter
- <# Not detected in concentrations above laboratory reporting limit
- no samples collected, no data available
- * Laboratory note: "Results within quantitation range; chromatographic pattern not typical of fuel"

Attachments

CLEARWATER GROUP

WELL GAUGING/PURGING CALCULATIONS DATA SHEET

229 Tewksbury Avenue,
Point Richmond, CA 94801
Tel: (510) 307-9943 Fax: (510) 232-2823

Date: 5/9/05 Job No.: ZP046C Location: 4301 SAN LEANERO ST. OAKLAND, CA

Tech(s): Rodney Berry

Drums on Site @ TOA/TOD
Soil: 0 Water: 0
Total number of DRUMS used for this event
Soil: 0 Water: 0

Well No.	Diameter (in)	DTB (ft)	DTW (ft)	ST (ft)	CV (gal)	PV (gal)	SPL (ft)	Notes
<u>MW-1</u>	<u>2</u>	<u>24.53</u>	<u>9.58</u>	<u>14.95</u>	<u>2.39</u>	<u>7.16</u>		<u>Post DTW</u> <u>11.53</u>
<u>↓ 3</u>	<u>↓</u>	<u>23.06</u>	<u>10.51</u>	<u>12.55</u>	<u>2.00</u>	<u>6.02</u>		<u>12.13</u>
<u>↓ 2</u>	<u>↓</u>	<u>24.75</u>	<u>13.62</u>	<u>11.13</u>	<u>1.78</u>	<u>5.34</u>		<u>16.22</u>

Explanation:

DTB = Depth to Bottom
DTW = Depth to Water
ST = Saturated Thickness (DTB-DTW) must be > 1 foot
CV = Casing Volume (ST x cf)
PV = Purge Volume (standard 3 x CV, well development 10 x CV)
SPL = Thickness of Separate Phase Liquid

Conversion Factors (cf)

2-inch diameter well cf = 0.16 gal/ft
4-inch diameter well cf = 0.65 gal/ft
6-inch diameter well cf = 1.44 gal. ft

PURGING DATA

SHEET 1 OF 1

4301 SAN LEANDRO ST
OAKLAND, CA

Job No.: ZP046C

Location: OAKLAND, CA

Date: 5/9/05

Tech: Rodney Berry

WELL No. TIME VOLUME (gal.) COND. (mS/cm) TEMP. (deg. F.) pH 1410

MW-1	1312	2.00	3999	18.9 ^o C	7.15	Sample for: TPHg TPHd 8010 BTEX Other
Calc. purge	1316	4.00	3999	18.9 ^o C	7.14	
volume	1320	7.50	3999	18.9 ^o C	7.12	
7.16						Purging Method: PVC bailer / Pump

COMMENTS: color, turbidity, recharge, sheen *strong*
 CLEAR, low, good, sheen, odor
 Sampling Method: Dedicated / Disposable bailer

WELL No. TIME VOLUME (gal.) COND. (mS/cm) TEMP. (deg. F.) pH 1420

MW-3	1334	2.00	3193	19.0 ^o C	7.02	Sample for: TPHg TPHd 8010 BTEX Other
Calc. purge	1338	4.00	3194	19.1 ^o C	7.01	
volume	1344	6.50	3196	19.1 ^o C	7.01	
6.02						Purging Method: PVC bailer / Pump

COMMENTS: color, turbidity, recharge, sheen *strong*
 CLEAR, low, good, NO sheen, odor
 Sampling Method: Dedicated / Disposable bailer

WELL No. TIME VOLUME (gal.) COND. (mS/cm) TEMP. (deg. F.) pH 1430

MW-2	1351	2.00	3999	18.3 ^o C	6.84	Sample for: TPHg TPHd 8010 BTEX Other
Calc. purge	1356	4.00	3999	17.8 ^o C	6.82	
volume	14.02	5.50	3999	17.7 ^o C	6.82	
5.34						Purging Method: PVC bailer / Pump

COMMENTS: color, turbidity, recharge, sheen *strong*
 CLEAR, low, good, NO sheen, odor
 Sampling Method: Dedicated / Disposable bailer

CLEARWATER GROUP

Groundwater Monitoring and Sampling Field Procedures

Groundwater Monitoring

Prior to beginning, a decontamination area is established. Decontamination procedures consist of scrubbing downhole equipment in an Alconox® solution wash (wash solution is pumped through any purging pumps used), and rinsing in a first rinse of potable water and a second rinse of potable water or deionized water if the latter is required. Any non-dedicated downhole equipment is decontaminated prior to use.

Prior to gauging, purging, and sampling a well, caps for all on-site wells should be opened to allow atmospheric pressure to equalize if local groundwater is under confined or semi-confined condition. The static water level is measured to the nearest 0.01 feet with electronic water sounder. Depth to bottom is typically measured once per year, at the request of the project manager, and during Clearwater's first visit to a site. If historical analytical data are not available, with which to establish a reliable order of increasing well contamination, the water sounder and tape will be decontaminated between each well. If floating separate-phase hydrocarbons (SPH) are suspected or observed, SPH is collected using a clear, open-ended product bailer, and the thickness is measured to the nearest 0.01 feet in the bailer. SPH may alternatively be measured with an electronic interface probe. Any monitoring well containing a measurable thickness of SPH before or during purging is not additionally purged and no sample is collected from that well. Wells containing hydrocarbon sheen are sampled unless otherwise specified by the project manager. Field observations such as well integrity as well as water level measurements and floating product thicknesses are noted on the Gauging Data/Purge Calculations form.

Well Purging

Each monitoring well to be sampled is purged using either a PVC bailer or a submersible pump. Physical parameters (pH, temperature and conductivity) of the purge water are monitored during purging activities to assess if the water sample collected is representative of the aquifer. If required, parameters such as dissolved oxygen, turbidity, salinity etc. are also measured. Samples are considered representative if parameter stability is achieved. Stability is defined as a change of less than 0.25 pH units, less than 10% change in conductivity in micro mhos, and less than 1.0 degree centigrade (1.8 degrees Fahrenheit) change in temperature. Parameters are measured in a discreet sample decanted from the bailer separately from the rest of the purge water. Parameters are measured at least four times during purging; initially, and at volume intervals of one well volume. Purging continues until three well casing volumes have been removed or until the well completely dewater. Wells which dewater or demonstrate a slow recharge may be sampled after fewer than three well volumes have been removed. Well purging information is recorded on the Purge Data sheet. All meters used to measure parameters are calibrated daily. Purge water is sealed, labeled, and stored on site in D.O.T.-approved 55-gallon drums. After being chemically profiled, the water is removed to an appropriate disposal facility by a licensed waste hauler.

Groundwater Sample Collection

Groundwater samples are collected immediately after purging or, if purging rate exceeds well recharge rate, when the well has recharged to at least 80% of its static water level. If recharge is extremely slow, the well is allowed to recharge for at least two hours, if practicable, or until sufficient volume has accumulated for sampling. The well is sampled within 24 hours of purging or repurged. Samples are collected using polyethylene bailers, either disposable or dedicated to the well. Samples being analyzed for compounds most sensitive to volatilization are collected first. Water samples are placed in appropriate laboratory-supplied containers, labeled, documented on a chain of custody form and placed on ice in a cooler for transport to a state-certified analytical laboratory. Analytical detection limits match or surpass standards required by relevant local or regional guidelines.

Quality Assurance Procedures

To prevent contamination of the samples, Clearwater personnel adhere to the following procedures in the field:

- A new, clean pair of latex gloves is put on prior to sampling each well.
- Wells are gauged, purged and groundwater samples are collected in the expected order of increasing degree of contamination based on historical analytical results.

- All purging equipment will be thoroughly decontaminated between each well, using the procedures previously described at the beginning of this section.
- During sample collection for volatile organic analysis, the amount of air passing through the sample is minimized. This helps prevent the air from stripping the volatiles from the water. Sample bottles are filled by slowly running the sample down the side of the bottle until there is a convex meniscus over the mouth of the bottle. The lid is carefully screwed onto the bottle such that no air bubbles are present within the bottle. If a bubble is present, the cap is removed and additional water is added to the sample container. After resealing the sample container, if bubbles still are present inside, the sample container is discarded and the procedure is repeated with a new container.

Laboratory and field handling procedures may be monitored, if required by the client or regulators, by including quality control (QC) samples for analysis with the groundwater samples. Examples of different types of QC samples are as follows:

- Trip blanks are prepared at the analytical laboratory by laboratory personnel to check field handling procedures. Trip blanks are transported to the project site in the same manner as the laboratory-supplied sample containers to be filled. They are not opened, and are returned to the laboratory with the samples collected. Trip blanks are analyzed for purgeable organic compounds.
- Equipment blanks are prepared in the field to determine if decontamination of field sampling equipment has been effective. The sampling equipment used to collect the groundwater samples is rinsed with distilled water which is then decanted into laboratory-supplied containers. The equipment blanks are transported to the laboratory, and are analyzed for the same chemical constituents as the samples collected at the site.
- Duplicates are collected at the same time that the standard groundwater samples are being collected and are analyzed for the same compounds in order to check the reproducibility of laboratory data. They are typically only collected from one well per sampling event. The duplicate is assigned an identification number that will not associate it with the source well.

Generally, trip blanks and field blanks check field handling and transportation procedures. Duplicates check laboratory procedures. The configuration of QC samples is determined by Clearwater depending on site conditions and regulatory requirements.



Report Number : 43697

Date : 5/17/2005

Jim Ho
Clearwater Group, Inc.
229 Tewksbury Avenue
Point Richmond, CA 94801

Subject : 3 Water Samples
Project Name : NAZ EAGLE GAS STATION
Project Number : ZP046C

Dear Mr. Ho,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

A handwritten signature in black ink, appearing to read "Joel Kiff".

Joel Kiff



Report Number : 43697

Date : 5/17/2005

Project Name : NAZ EAGLE GAS STATION

Project Number : ZP046C

Sample : MW-1

Matrix : Water

Lab Number : 43697-01

Sample Date :5/9/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 50	50	ug/L	EPA 8260B	5/12/2005
Toluene	< 50	50	ug/L	EPA 8260B	5/12/2005
Ethylbenzene	< 50	50	ug/L	EPA 8260B	5/12/2005
Total Xylenes	< 50	50	ug/L	EPA 8260B	5/12/2005
Methyl-t-butyl ether (MTBE)	11000	50	ug/L	EPA 8260B	5/12/2005
Diisopropyl ether (DIPE)	< 50	50	ug/L	EPA 8260B	5/12/2005
Ethyl-t-butyl ether (ETBE)	< 50	50	ug/L	EPA 8260B	5/12/2005
Tert-amyl methyl ether (TAME)	53	50	ug/L	EPA 8260B	5/12/2005
Tert-Butanol	200000	250	ug/L	EPA 8260B	5/12/2005
TPH as Gasoline	< 5000	5000	ug/L	EPA 8260B	5/12/2005
Toluene - d8 (Surr)	88.0		% Recovery	EPA 8260B	5/12/2005
4-Bromofluorobenzene (Surr)	95.5		% Recovery	EPA 8260B	5/12/2005
TPH as Diesel	1700	50	ug/L	M EPA 8015	5/13/2005
Octacosane (Diesel Surrogate)	128		% Recovery	M EPA 8015	5/13/2005

Approved By:

Joel Kiff



Report Number : 43697

Date : 5/17/2005

Project Name : NAZ EAGLE GAS STATION

Project Number : ZP046C

Sample : MW-3

Matrix : Water

Lab Number : 43697-02

Sample Date :5/9/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 150	150	ug/L	EPA 8260B	5/16/2005
Toluene	< 150	150	ug/L	EPA 8260B	5/16/2005
Ethylbenzene	< 150	150	ug/L	EPA 8260B	5/16/2005
Total Xylenes	< 150	150	ug/L	EPA 8260B	5/16/2005
Methyl-t-butyl ether (MTBE)	97000	150	ug/L	EPA 8260B	5/16/2005
Diisopropyl ether (DIPE)	< 150	150	ug/L	EPA 8260B	5/16/2005
Ethyl-t-butyl ether (ETBE)	< 150	150	ug/L	EPA 8260B	5/16/2005
Tert-amyl methyl ether (TAME)	780	150	ug/L	EPA 8260B	5/16/2005
Tert-Butanol	30000	700	ug/L	EPA 8260B	5/16/2005
TPH as Gasoline	< 15000	15000	ug/L	EPA 8260B	5/16/2005
Toluene - d8 (Surr)	104		% Recovery	EPA 8260B	5/16/2005
4-Bromofluorobenzene (Surr)	96.6		% Recovery	EPA 8260B	5/16/2005
TPH as Diesel	320	50	ug/L	M EPA 8015	5/12/2005
Octacosane (Diesel Surrogate)	110		% Recovery	M EPA 8015	5/12/2005

Approved By:

Joel Kiff



Report Number : 43697

Date : 5/17/2005

Project Name : **NAZ EAGLE GAS STATION**

Project Number : **ZP046C**

Sample : **MW-2**

Matrix : Water

Lab Number : 43697-03

Sample Date :5/9/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 1500	1500	ug/L	EPA 8260B	5/13/2005
Toluene	< 1500	1500	ug/L	EPA 8260B	5/13/2005
Ethylbenzene	< 1500	1500	ug/L	EPA 8260B	5/13/2005
Total Xylenes	< 1500	1500	ug/L	EPA 8260B	5/13/2005
Methyl-t-butyl ether (MTBE)	570000	1500	ug/L	EPA 8260B	5/13/2005
Diisopropyl ether (DIPE)	< 1500	1500	ug/L	EPA 8260B	5/13/2005
Ethyl-t-butyl ether (ETBE)	< 1500	1500	ug/L	EPA 8260B	5/13/2005
Tert-amyl methyl ether (TAME)	2300	1500	ug/L	EPA 8260B	5/13/2005
Tert-Butanol	32000	7000	ug/L	EPA 8260B	5/13/2005
TPH as Gasoline	< 150000	150000	ug/L	EPA 8260B	5/13/2005
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	5/13/2005
4-Bromofluorobenzene (Surr)	91.7		% Recovery	EPA 8260B	5/13/2005
TPH as Diesel	1100	50	ug/L	M EPA 8015	5/12/2005
Octacosane (Diesel Surrogate)	120		% Recovery	M EPA 8015	5/12/2005

Approved By:

Joel Kiff

Report Number : 43697

Date : 5/17/2005


QC Report : Method Blank Data

Project Name : NAZ EAGLE GAS STATION

Project Number : ZP046C

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel	< 50	50	ug/L	M EPA 8015	5/12/2005
Octacosane (Diesel Surrogate)	107		%	M EPA 8015	5/12/2005
Benzene	< 0.50	0.50	ug/L	EPA 8260B	5/12/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	5/12/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	5/12/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	5/12/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	5/12/2005
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	5/12/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	5/12/2005
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	5/12/2005
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	5/12/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	5/12/2005
Toluene - d8 (Surr)	92.6		%	EPA 8260B	5/12/2005
4-Bromofluorobenzene (Surr)	96.7		%	EPA 8260B	5/12/2005
Benzene	< 0.50	0.50	ug/L	EPA 8260B	5/16/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	5/16/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	5/16/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	5/16/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	5/16/2005
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	5/16/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	5/16/2005
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	5/16/2005
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	5/16/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	5/16/2005
Toluene - d8 (Surr)	93.9		%	EPA 8260B	5/16/2005
4-Bromofluorobenzene (Surr)	97.0		%	EPA 8260B	5/16/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	5/13/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	5/13/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	5/13/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	5/13/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	5/13/2005
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	5/13/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	5/13/2005
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	5/13/2005
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	5/13/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	5/13/2005
Toluene - d8 (Surr)	101		%	EPA 8260B	5/13/2005
4-Bromofluorobenzene (Surr)	92.9		%	EPA 8260B	5/13/2005

Approved By:  Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : NAZ EAGLE GAS

Project Number : ZP046C

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
TPH as Diesel	Blank	<50	1000	1000	984	946	ug/L	M EPA 8015	5/12/05	98.4	94.6	3.89	70-130	25
Benzene	43691-01	<0.50	38.9	39.2	36.0	37.0	ug/L	EPA 8260B	5/12/05	92.7	94.4	1.85	70-130	25
Toluene	43691-01	<0.50	38.9	39.2	35.1	35.2	ug/L	EPA 8260B	5/12/05	90.2	89.6	0.660	70-130	25
Tert-Butanol	43691-01	<5.0	194	196	189	190	ug/L	EPA 8260B	5/12/05	96.9	96.9	0.0268	70-130	25
Methyl-t-Butyl Ether	43691-01	<0.50	38.9	39.2	35.8	36.3	ug/L	EPA 8260B	5/12/05	92.0	92.7	0.738	70-130	25
Benzene	43770-01	<0.50	40.0	39.8	35.2	35.7	ug/L	EPA 8260B	5/16/05	88.0	89.7	1.90	70-130	25
Toluene	43770-01	<0.50	40.0	39.8	35.2	36.0	ug/L	EPA 8260B	5/16/05	88.0	90.6	2.80	70-130	25
Tert-Butanol	43770-01	<5.0	200	199	188	190	ug/L	EPA 8260B	5/16/05	93.8	95.7	2.08	70-130	25
Methyl-t-Butyl Ether	43770-01	<0.50	40.0	39.8	37.3	36.4	ug/L	EPA 8260B	5/16/05	93.2	91.6	1.68	70-130	25
Benzene	43733-10	<0.50	40.0	40.0	40.6	39.7	ug/L	EPA 8260B	5/13/05	102	99.2	2.32	70-130	25
Toluene	43733-10	<0.50	40.0	40.0	41.0	40.1	ug/L	EPA 8260B	5/13/05	102	100	2.35	70-130	25
Tert-Butanol	43733-10	<5.0	200	200	194	197	ug/L	EPA 8260B	5/13/05	96.9	98.3	1.50	70-130	25
Methyl-t-Butyl Ether	43733-10	<0.50	40.0	40.0	36.9	36.1	ug/L	EPA 8260B	5/13/05	92.2	90.3	2.02	70-130	25

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Approved By:  Joel Kiff

Report Number : 43697

Date : 5/17/2005

QC Report : Laboratory Control Sample (LCS)

Project Name : **NAZ EAGLE GAS**

Project Number : **ZP046C**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	5/12/05	94.1	70-130
Toluene	40.0	ug/L	EPA 8260B	5/12/05	93.0	70-130
Tert-Butanol	200	ug/L	EPA 8260B	5/12/05	96.6	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	5/12/05	95.6	70-130
Benzene	40.0	ug/L	EPA 8260B	5/16/05	90.1	70-130
Toluene	40.0	ug/L	EPA 8260B	5/16/05	91.3	70-130
Tert-Butanol	200	ug/L	EPA 8260B	5/16/05	94.1	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	5/16/05	94.1	70-130
Benzene	40.0	ug/L	EPA 8260B	5/13/05	94.3	70-130
Toluene	40.0	ug/L	EPA 8260B	5/13/05	97.1	70-130
Tert-Butanol	200	ug/L	EPA 8260B	5/13/05	90.6	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	5/13/05	90.5	70-130

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Approved By:


Joel Kiff



2795 2nd Street, Suite 300
 Davis, CA 95616
 Lab: 530.297.4800
 Fax: 530.297.4808

Lab No. 43697 Page 1 of 1

Project Contact (Hardcopy or PDF To): Jim Ho California EDF Report? Yes No

Chain-of-Custody Record and Analysis Request

Company/Address: CHAWATER GROUP Recommended but not mandatory to complete this section:
229 KINGSBURY AVE. Ft. Richmond, CA Sampling Company Log Code: CW60

Phone No.: (50) 339-9943 FAX No.: (510) 332-2823 Global ID: T-0-6-0-5-3-0-0-2-1-9

Project Number: 79046C P.O. No.: 79046C EDF Deliverable To (Email Address): Jchiaro@chawatergroup.com

Project Name: NAZ Eagle Gas Station Sampler Signature: Rodney Berry

Project Address: 4301 ST. SAULSANDRO CARLAND, CA

Analysis Request

Analysis Request	TAT
BTEX (8021B)	For Lab Use Only 12 hr / 24 hr / 48 hr / 72 hr / 1 wk
BTEX/TPH Gas/MTBE (8021B/M8015)	
TPH as Diesel (M8015)	
TPH as Motor Oil (M8015)	
TPH Gas/BTEX/MTBE (8260B)	
5 Oxygenates/TPH Gas/BTEX (8260B)	
7 Oxygenates/TPH Gas/BTEX (8260B)	
5 Oxygenates (8260B)	
7 Oxygenates (8260B)	
Lead Scav. (1,2 DCA & 1,2 EDB - 8260B)	
EPA 8260B (Full List)	
Volatile Halocarbons (EPA 8260B)	
Lead (7421/239.2) TOTAL (X) W.E.T. (X)	

Sample Designation

Sample Designation	Sampling		40 ml VOA SLEEVE	Container	Preservative				Matrix	
	Date	Time			HCl	HNO ₃	ICE	NONE	WATER	SOIL
MW-1	5/19/05	1410	X		X				X	
↓ 3	↓	↓ 1420								
↓ 2	↓	↓ 1430								

Relinquished by: <u>Rodney Berry</u>	Date: <u>5/19/05</u> Time: <u>1515</u>	Received by: _____
Relinquished by: _____	Date: _____ Time: _____	Received by: _____
Relinquished by: _____	Date: <u>05/20/05</u> Time: <u>1340</u>	Received by Laboratory: <u>Morgan W. Behavus KIFF Analytical LLC</u>

Remarks: _____
 Bill to: _____