

Mr. Amir Gholami Alameda County Environmental Health Services Environmental Protection Division 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577 September 14, 2004

RE: Groundwater Monitoring Report, Third Quarter 2004

Eagle Gas Station
4301 San Leandro Street
Oakland, California 94601
LOP StID# 2118
Clearwater Group Project # ZP046B
USTCF Claim No. 014551

Dear Mr. Gholami,

Please find enclosed a copy of the Groundwater Monitoring Report, Third Quarter 2004 for the above referenced project location. 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

David Mog P.E. Principal Engineer

Enclosure



September 14, 2004

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

Re: Groundwater Monitoring Report, Third Quarter 2004

Eagle Gas Station 4301 San Leandro Street Oakland, California 94601 LOP Site ID# 2118 Clearwater Project No. ZP046B USTCF Claim No. 014551

Dear Mr. Gholami:

The Clearwater Group (Clearwater) has prepared the following letter report of third quarter 2004 groundwater monitoring activities at the above referenced site. Groundwater monitoring was requested by the Alameda County Department of Environmental Health (ACDEH) in a letter dated October 18, 2001.

Site Description

The site is located in the southern portion of Oakland, Alameda County, California at the south corner of San Leandro Street and High Street, 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, (formerly Artesian Environmental), oversaw the removal from the site of five underground storage tanks (UST) consisting of two 6,000-gallon gasoline USTs, two 4,000-gallon diesel USTs and one 300-gallon used oil UST (Figure 2.) Field observations included detection of strong petroleum odors from soils near the former UST locations. A total of five-confirmation soil samples and three groundwater samples were collected from the UST excavations. Laboratory analysis confirmed an unauthorized release of petroleum had occurred.

In a letter dated May 10, 1999, the ACDEH recommended that soil be remediated by over-excavation and that "as much groundwater as possible" be pumped from the excavation. Approximately 800 tons of petroleum-impacted soil was excavated and disposed of as Class II non-hazardous waste. Less than 1,000 gallons of petroleum-impacted groundwater was pumped and removed from the excavation. Groundwater did not recharge 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 some remaining petroleum and methyl tertiary butyl ether (MTBE) contamination.

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 the presence of hydrocarbon related contamination 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 (Figure 2), and collect soil samples. Each of the three borings was converted to a groundwater monitoring well using clean, flush-threaded, 2-inch diameter polyvinyl chloride (PVC) well materials (**Table 1**.) Soil sample analytical results are included as **Table 2**. On October 3 and 10, 2000, Clearwater surveyed the top of the casing elevations for each of the wells relative to an arbitrary datum, and developed the wells for monitoring. Initial groundwater samples collected from these wells contained 83,000 micrograms per liter (µg/L) to 250,000 µg/L total petroleum hydrocarbons as gasoline, (TPHg), and 33,000 µg/L to 400,000 µg/L MTBE (**Table 3**.)

On August 3, 2001 Clearwater submitted its Groundwater Monitoring Report, Second Quarter 2001, Sensitive Receptor Survey and Workplan for Continuing Investigation. It was determined at that time that there are 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 water-borne MTBE plume. In response to Clearwater's workplan, the ACDEH, in correspondence dated October 18, 2001, recommended that off-site monitoring wells not be installed for the time being. Instead, the ACDEH 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 for a variety of reasons after the third quarter 2003 event. Quarterly monitoring resumed in July 2003 and has taken place every quarter since.



Groundwater Monitoring Activities

Groundwater Gauging and Sampling

On August 6, 2004 all three wells were monitored. An electronic water level indicator accurate to within ±0.01 feet was used to gauge depth to water. All wells were checked for the presence of Separate Phase Hydrocarbons (SPH) prior to purging. SPH were not found in any well. The wells were purged of groundwater until measurements of temperature, pH and conductivity stabilized, which occurred by approximately three wetted casing volumes. Depth to water and well purging information was recorded on Gauging Data/Purge Calculations and Purging Data sheets (Attachment 1.) All work was performed in accordance with Clearwater's Groundwater Monitoring and Sampling Field Procedures (Attachment 2.)

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.

<u>Laboratory Analysis</u>

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 TPHg, for benzene, toluene, ethylbenzene, and xylenes (BTEX), and for the oxygenates MTBE, di-isopropyl ether (DIPE), ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), and tertiary butyl alcohol (TBA). Analyses for total petroleum hydrocarbons as diesel (TPHd) were 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

Depths to water ranged from approximately 7.76 (MW-1) to 15.36 (MW-2) feet bgs (Table 3.) Depth to water data combined with arbitrary well elevation data were used to generate a groundwater elevation map (Figure 3.) During this monitoring event, groundwater flow was in a generally southerly direction with a gradient of 0.075 ft/ft. Groundwater gradient is generally consistent with observations from the previous groundwater-monitoring event. Groundwater flow for the last monitoring event was in a southeasterly direction, approximately 45 degrees to the south of this monitoring events flow direction.

Groundwater Sample Analytical Results

Diesel-range hydrocarbons were detected in samples collected from all three groundwater-monitoring wells. Concentrations of TPHd ranged from 78 μg/L (MW-3) to 510 μg/L (MW-1). MTBE was detected in samples collected from all three monitoring wells in concentrations ranging from 26,000 μg/L (MW-1) to 810,000 μg/L (MW-2). Detections of TAME were reported this quarter in all three wells with concentrations ranging from 3,600 μg/L (MW-2) to 100 μg/L (MW-1). Samples collected from MW-1, and MW-2 contained reportable concentrations of TBA at a concentration of 250,000 μg/L, and 17,000J μg/L respectively. The sample from MW-3 did not have reportable concentrations at <2,500 μg/L. Tert-Butanol results for sample MW-2 may be biased slightly high and are flagged with a "J". A fraction of MTBE (typically less than 1%) converts to Tert-Butanol during the analysis of water samples. We consider this conversion effect to be mathematically signicant in samples that contain MTBE/Tert-Butanol in ratios of over 20:1. Samples collected from MW-2 contained reportable



concentrations of benzene (590 μ g/L). Laboratory analytical results are summarized in **Table 3** and shown on **Figure 4**.

Conclusions and Recommendations

The results of the recent groundwater-monitoring event confirm the presence of elevated concentrations of petroleum related hydrocarbons in the groundwater beneath the site. Concentrations of TPHd decreased in all three wells this monitoring period from the previous event. Concentrations of MTBE in MW-1 and MW-3 decreased this reporting event, while concentrations of MTBE in MW-2 increased this event. Concentration of TBA in MW-1 doubled last monitoring event from the previous event and increased by over fifty percent this monitoring event. Previous investigations have indicated that some contaminated soil may remain underneath existing structures. To date, the extent of the dissolved-phase contaminant plume remains undefined. Clearwater recommends that further subsurface investigations be conducted both on- and off-site in order to characterize and delineate the extent of the water-borne contaminant plume. Monitoring of the existing wells should continue throughout the investigative process.

On January 9, 2004, after completing its review of the Third Quarter 2003 Groundwater Monitoring Report, ACDEH requested a workplan be prepared for the purpose of addressing the hydrocarbon contamination found in the groundwater beneath the project location. Clearwater submitted an Interim Remedial action Plan (IRAP) on January 14, 2004. Clearwater is waiting on the review and approval to perform this work. Clearwater is aware that not all the vertical and lateral extent of contamination, on-site and off-site has been performed. Nonetheless, discussions between Clearwater and our client indicated that our client wishes that an interim-remedial action be considered at the site. As such, an interim remedial measure was described in the submitted materials.



Attachments

Figures

Figure 1: Site Location Map

Figure 2: Site Plan

Figure 3: Groundwater Elevation Map - 4/17/04 Figure 4: Dissolved Hydrocarbon Map - 4/17/04

Tables

Table 1: Well Construction Data

Table 2: Soil Sample Analytical Data

Table 3: Groundwater Elevation and Analytic Data

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

> 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 at Clearwater. All statements, conclusions and recommendations are based solely upon field observations and analyses performed by a California State-certified laboratory related to the work performed by Clearwater. Clearwater is not responsible for laboratory errors. Information and interpretations presented herein are for sole use of the client and regulating agency and shall not be relied upon by any third party. The service performed by Clearwater has been conducted in a manner consistent with the level of care and skill ordinarily exercised by members of our profession currently practicing under similar conditions in the area of the site. No other warranty, expressed or implied, is made.

CLEARWATER GROUP

Prepared by:

Reviewed by:

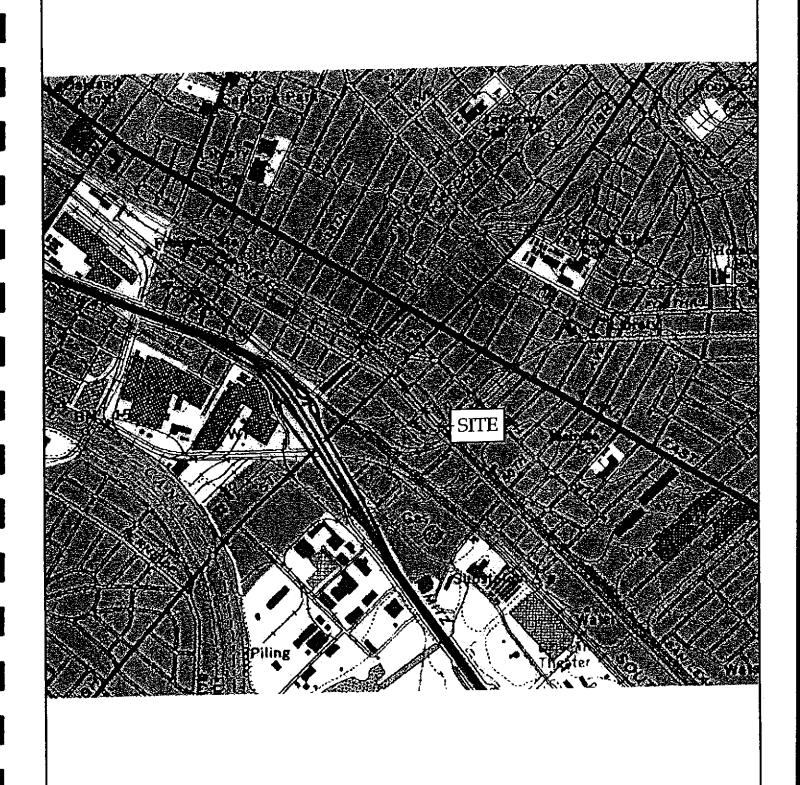
David Mog P.E. No. 39782

Principal Engineer

James A. Jacobs, R.G.

Chief Hydrogeologist

Figures



NOT TO SCALE

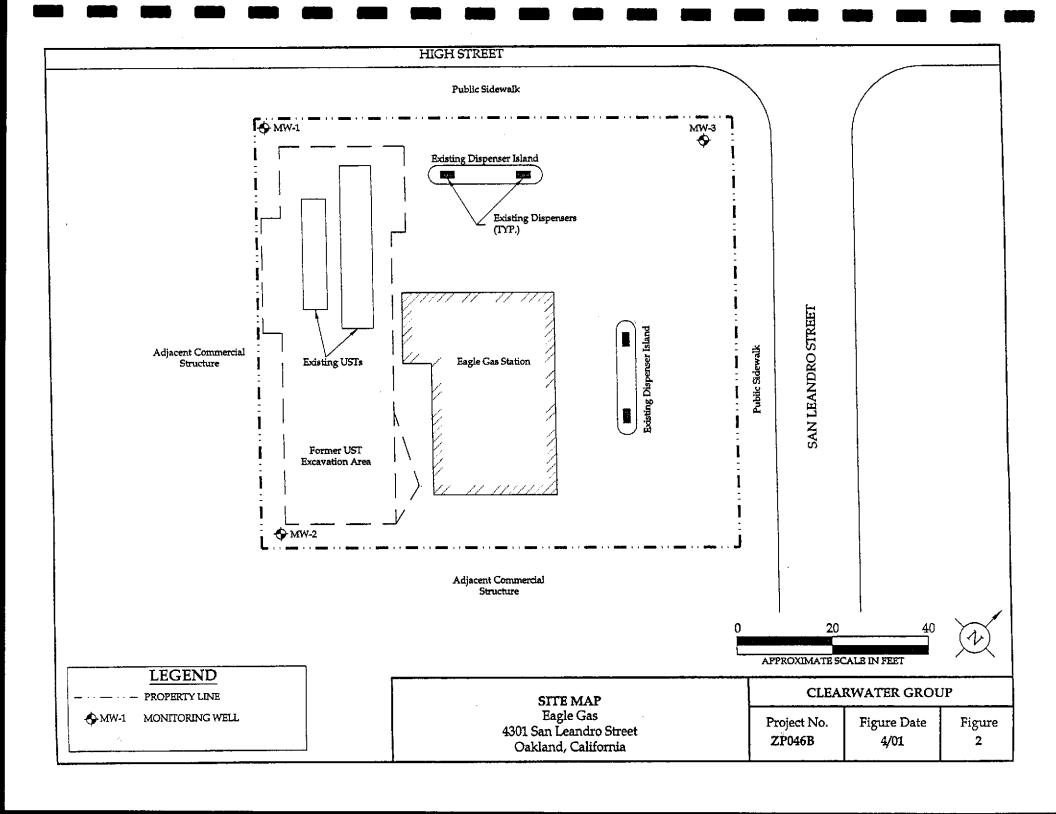


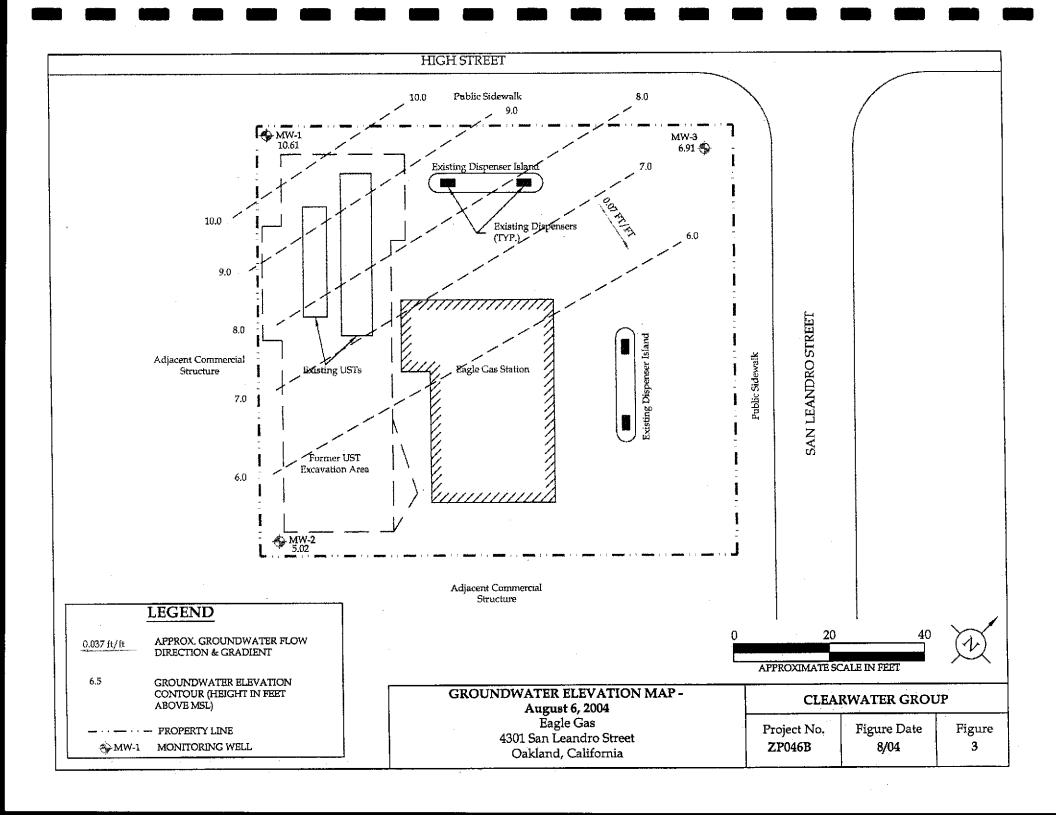
SITE LOCATION MAP

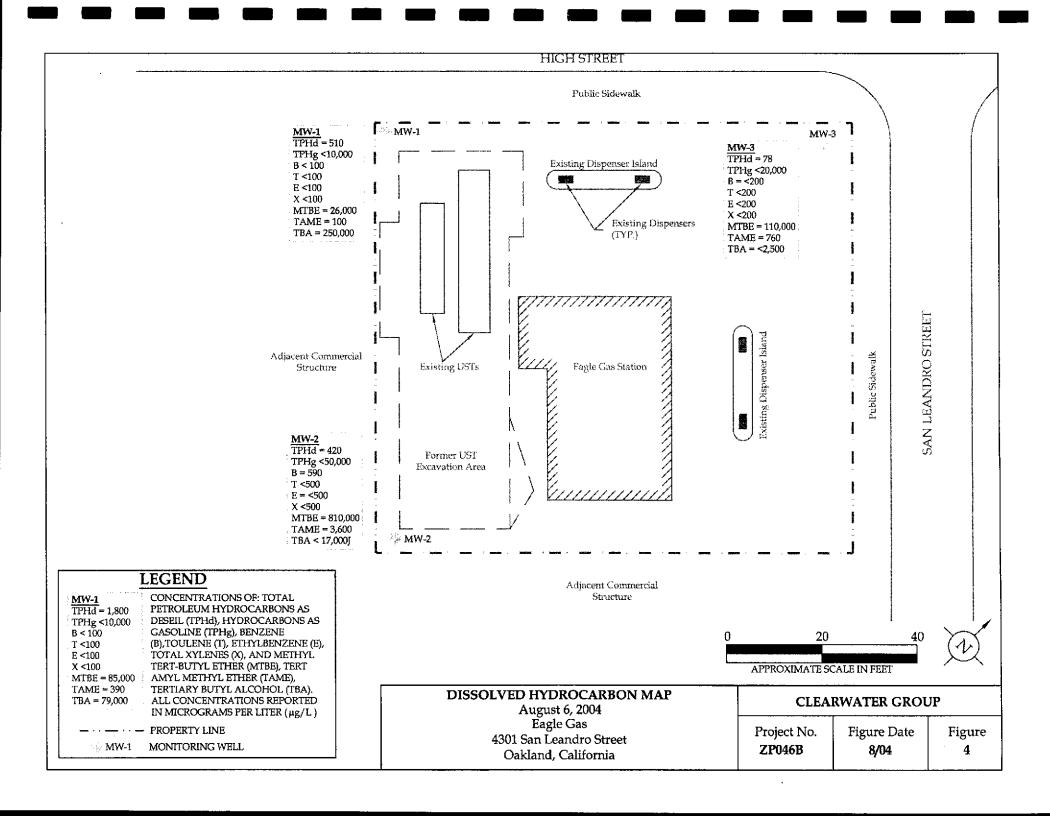
Eagle Gas 4301 San Leandro Street Oakland, California CLEARWATER GROUP

Project No. **ZP046B**

Figure Date 1/04 Figure 1







Tables

Table 1 WELL CONSTRUCTION DATA

Eagle Gas

4301 San Leandro Street Oakland, California Clearwater Group Project No. ZP046A

Well I.D.	Date Intstalled		Depth of Borehole (feet)	_		Filter Pack (feet)	Bentonite Seal (feet)	Cement (feet)
MW-1	9/26/00	8	25	2	10-25	6-25	3-6	0-3
MW-2	9/26/00	8	25	2	10-25	6-25	3-6	0-3
MW-3	9/26/00	8	25	2	10-25	6-25	3-6	0-3

TABLE 2
SOIL SAMPLE ANALYTICAL RESULTS
Eagle Gas
4301 San Leandro Street
Oakland, California
Clearwater Group Project No. ZP046B

Sample ID	Sample Date	TPHd mg/Kg	TPHg mg/Kg	B mg/Kg	T mg/Kg	E mg/Kg	X mg/Kg	MTBE mg/Kg	EDB mg/Kg	1,2-DCA mg/Kg	DIPE mg/Kg	ETBE mg/Kg	TAME mg/Kg	TBA mg/Kg
CS1-7	4/21/99	840	770	8.9	4.8	5.8	16	86						
CS2-7	4/21/99	1900	880	3.3	5.7	15	45	16						
CS3-7	4/22/99	780	1600	4.3	110	42	220	92						
CS5-6.5	4/22/99	33	20	0.22	1.8	0.54	3	52						
Stockpile 1	4/22/99	770	610	0.28	4.7	6.9	36	ND						
stockpile 2	4/22/99	670	480	0.23	2.3	3.9	18	ND						
CS4-13	4/22/00	ND	ND	ND	ND	ND	ND	0.08						
CS6-3	8/5/99	1300	4300	11	130	82	420	70						
CS7-3	8/5/99	200	50	ND	2.4	0.85	4	14						
CS8-3	8/5/99	3400	250	0.32	0.72	0.81	1	3.8						
CS9-3	8/5/99	1900	380	ND	ND	ND	ND	9.5						
CS10-3	8/5/99	350	930	ND	78	17	99	310						
CS11-3	8/5/99	5200	1400	3.2	13	25	90	62						
MW1-10'bgs	9/26/00	87	310	0.062	0.022	1.3	3.4	6.9	ND	ND	ND	ND	0.019	2.9
MW2-10'bgs	9/26/00	210	630	0.053	0.052	2	14	1.00	ND	ND	ND	ND	ND	3.5
MW3-10'bgs	9/26/00	ND	32	ND	ND	ND	ND	4.5	ND	ND	ND	ND	0.043	0.58

TABLE 2 SOIL SAMPLE ANALYTICAL RESULTS Eagle Gas 4301 San Leandro Street Oakland, California Clearwater Group Project No. ZP046B

Sample	Sample	TPHd	TPHg	B	T	E	X	MTBE	EDB	1,2-DCA	DIPE	ETBE	1
ID	Date	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
NOTES: TPHd TPHg BTEX MTBE DIPE ETBE TAME 1,2-DCA	Total petro Total petro Benzene, Methyl teri Di-isoprop Ethyl terta Tertiary ar 1,2-Dichlo	bleum hyd toluene, e tiary butyl yl ether b ry butyl et nyl methy	rocarbon ethylbenzo ether by y EPA Mo ther by El	s as gasc ene, total EPA Met ethod 826 PA Metho EPA Me	oline by El xylenes b hod 8260 80B od 8260B ethod 826	PA Method by EPA Me B	8260B	•					

Tertiary butyl alcohol by EPA Method 8260B miligrams per kilogram mg/Kg no samples collected, no data available

Ethylene dibromide by EPA Method 8260B

ND Not detected in concentrations above laboratory reporting limit

EDB

TBA

TAME

TBA

mg/Kg mg/Kg

TABLE 3
GROUNDWATER ELEVATIONS AND SAMPLE ANALYTICAL RESULTS

Eagle Gas

4301 San Leandro Street

Oakland, California

Clearwater Group Project No. ZP046B

Sample	Sample	TOC	DTW	GWE	TPHd	TPHg	В	Т	E·	X	MTBE	DIPE	ETBE	TAME	TBA
ID	Date	(feet)	(feet)	(feet)	(μg/L)	(µg/L)	$(\mu g/L)$	$(\mu g/L)$	$(\mu g/L)$	(µg/L)	(µg/L)	(µg/L)	(μg/L)	(µg/L)	(µg/L)
MW-1	10/3/00	18.37	8,96	9.41	460	93,000	<500	<500	<500	<500	130,000	<10,000	<10,000	<10,000	<2,000
	10/27/00	18.37	7.27	11.1											
	1/26/01	18.37	7.60	10.77	1,600*	51,000	270	<100	<100	<100	77,000	<5,000	<5,000	<5,000	<20,000
	5/8/01	18.37	7.50	10.87	470*	36,000*	<100	<100	<100	<100	15,000	<5,000	<5,000	<5,000	<20,000
	8/3/01	18.37	7.09	11.28	2,200*	19,000*	<50	59	<50	<50	96,000	<5,000	<5,000	<5,000	<20,000
	7/1/03	18.37	7.59	10.78	3,000	<25,000	<250	<250	<250	<250	170,000	<250	<250	980	8700
	10/1/03	18.37	8.36	10.01	2,600	<20,000	<200	<200	<200	<200	69,000	<200	<200	270	15,000
	2/13/04	18.37	8.80	9.57	1,800	<10,000	<100	<100	<100	<100	85,000	<100	<100	390	79,000
	5/17/04	18.37	10.92	7.45	5,400	<15,000	<150	<150	<150	<150	60,000	<150	<150	260	160,000
	8/6/04	18.37	7.76	10.61	510	<10,000	<100	<100	<100	<100	26,000	<100	<100	100	250,000
MW-2	10/3/00	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
	10/27/00	20.28	13.88	6.40										4- -	
	1/26/01	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
	5/8/01	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
	8/3/01	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
	7/1/03	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
	10/1/03	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
	2/13/04	20.28	13.88	6.40	1200	<20,000	860	<200	260	<200	710,000	<200	<200	2,000	<25,000
	5/17/04	20.38	14.68	5.70	2,500	<50000	860	<500	<500	<500	760,000	<500	<500	2,500	13000J
	8/6/04	20.38	15.36	5.02	420	<50000	590	<500	<500	<500	810,000	<500	<500	3,600	17,000J

TABLE 3 GROUNDWATER ELEVATIONS AND SAMPLE ANALYTICAL RESULTS Eagle Gas

4301 San Leandro Street

Oakland, California

Clearwater Group Project No. ZP046B

Sample ID	Sample Date	TOC (feet)	DTW (feet)	GWE (feet)	TPHd (µg/L)	TPHg (µg/L)	Β (μg/L)	Τ (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	10/3/00	18.98			120	8,300	<500	<500	<500	<500	33,000	<2,500	<2,500	<2,500	<10,000
	10/27/00	18.98	18.75	0.23										**-	
	1/26/01	18.98	13.38	5.60	900*	230,000	930	<500	<500	<500	330,000	<25,000	<25,000	<25,000	<100,000
	5/8/01	18.98	11.82	7,16	1,100*	95,000	840	<250	<250	<250	390,000	<12,500	<12,500	<12,500	<50,000
	8/3/01	18.98	13.44	5.54	290*	30,000*	<50	51	<50	<50 .	270,000	<12,500	<12,500	<12,500	<50,000
	7/1/03	18.98	12.67	6.31	620	<50,000	<500	<500	<500	<500	230,000	<500	<500	1,800	<5,000
	10/1/03	18,98	14.04	4.94	370	<20,000	<200	<200	<200	<200	120,000	<200	<200	1,200	<5,000
	2/13/04	19.98	12.20	7.78	430	<20,000	280	<200	<200	<200	210,000	<200	<200	1,200	<5000
	5/17/04	19.98	11.87	8.11	920	<25,000	<250	<250	<250	<250	150,000	<250	<250	1,100	5600J
	8/6/04	19.98	13.07	6,91	78	<20,000	<200	<200	<200	<200	110,000	<200	<200	760	<2,500

NOTES:

TOO		_
100	Top of well casing referenced to arbitrary datur	П

DTW Depth to water

MTBE Methyl tertiary butyl ether by EPA Method 8260B

DIPE Di-isopropyl ether by EPA Method 8260B

ETBE Ethyl tertary 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"

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

Attachments

CLEARWATER				WELL GAUGING/PURGING CALCULATIONS								
(LEAR	WATEL				DATA SHI	EET	11-4-00-01				
_	GR	OUP	-	Date	Job No.	Location 43	71-71	THE NURVEY				
229 Tewksb Phone: (51		oint Richmon Fax: (510)	d, CA 94801 (232-2823	816104Z	POHAB	OAK)A	ND, C	A				
Tech(s):		Dn	ıms on Site @	TOA		Drums on Site	@ TOD					
	10.	00	-	Mator	الانتص	Soil: 7	w	ater: / (1)				
KODNE	4 DE	KICY:	Soil: O	Water		000		7 (0)				
Well No	Diameter	DTB	DTW	ST	CV	PV	SPL	Notes				
FICHTIO	(in)	(ft)	्री (ft)	(ft)	(gal)	(gal)	(ft)					
17/42)	2	24,	276	1677	2,68	1804						
1 10 7	2	24.70	15:31	29.47	1-5C	14.52						
13107	る	32,00	13.07	100	1.60	14.80						
All		247200	1	10,01	1	100						
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Explanation;

DTB = Depth to Bottom

DTW = Depth to Water

ST = Saturated Thickness (DTB-DTW)

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

		; ·				•
			PUI 1430)	RGING I	ATADED	SHEET FOF
Job No.:	2 PO46B	Location:	OAKlA	ND, CA	Date:	8/6/04 Tech: RODNEY BERRY
WELL	TIME	VOLUME	COND.	TEMP.	pН	1006
No.		(gal)	(mS/cm)	(deg. F.)	<i>&</i>	
SAMU.	1942	3,60	38	21,4	5.25	Sample for: EPA METHOD 8015M
Calle purge	1945	6.00	863	27.30	15.21	TPHg TPHd 8010
volume	951	8.50	873	21.300	3.20	BTEX Other OUS EATH 82613
8,04			·			Purging Method:
	: \					PVC bailer Pump
	COMMEN	TS: color, tu	rbidity, recl	arge, sheen		Sampling Method:
2	CBAC	(10h)	2007, N	03HEN	, tDOK	Dedicated / Disposable bailer
		/ ¥ VOLUME	COND.	ТЕМР.	/ pH	1+20
WELL No.	TIME	(gal.)	(mS/cm)	(deg. F.)	P.Z	1030
10N-3	1015	1200	626	203°C	5-62	Sample for: EPA METHOD 80/5M
Calc purge	1017	3,00	626	20370	5.650	TPHe (TPHd 8010
volume	1021	5.00	626	20,500	5.66	BTEX Other 5045 EPA 8260B
4.52						Purging Method:
						PVC bailer Pump
	COMMENT	: FS: color, tw	bidity, rech	arge, sheen		Sampling Method:
	9RA41		GOOD, 1)	Dedicated Disposable bailer
	J	- /' - > ,				
WELL No.	TIME	VOLUME (gal.)	COND. (mS/cm)	TEMP. (deg. F.)	pН	1100
(All)-3	1038	200	214	12300	5.84	Sample for: SAMEHOD 80/SM TPHE TPHE 8010 BTEX Other 5 0X45 574 8068
Calc. purge	1,541	3,00	011	102	5.84	TPHg TPHd 8010
volume	1041	500	2012	X29	-5.84	BTEX) Other 5 0 X 4 5 574 8245 B
4.80	1	J 1012	000	(0)	0.07	Purging Method:
1.0 0				·		PVC bailer / Pump
	<u></u>	_L				
	COMMENI	S: color, tur	bidity, recha	rge, sheen	/ ₁ \ / ₂ \	Sampling Method:
3	1C/EAT	4/DW,	ypoD,	NOSASZ	K DV	Dedicated Disposable bailer
	OLE L DIVI	TED OBOXI	J	- L	Point Dick	and California BARDI

CLEARWATER GROUP, 229 Tewksbury Ave., Point Richmond, California 94801

Phone: 510-307-9943 Fax: 510-232-2823

Phone: 510-307-9943 Fax: 510-232-2823

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 purging and sampling a well, the static water level is measured to the nearest 0.01 feet with an 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 dewaters. 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 aottle. 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 sepeated with a new container.

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

 be filled. They are not opened, and are returned to the laboratory with the samples collected. Trip blanks are

 malyzed 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 baboratory, 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.

trip blanks and field blanks check field handling and transportation procedures. Duplicates check that ory procedures. The configuration of QC samples is determined by Clearwater depending on site conditions are gulatory requirements.



Date: 08/15/2004

Dave Mog Clearwater Group, Inc. 229 Tewksbury Avenue Point Richmond, CA 94801

Subject: 3 Water Samples

Project Name: NAZ EAGLE GAS

Project Number: ZP046

Dear Mr. Mog,

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,



Date: 08/15/2004

Subject : Project Name : 3 Water Samples NAZ EAGLE GAS

Project Number:

ZP046

Case Narrative

Tert-Butanol results for sample MW-2 may be biased slightly high and are flagged with a 'J'. A fraction of MtBE (typically less than 1%) converts to Tert-Butanol during the analysis of water samples. We consider this conversion effect to be mathematically significant in samples that contain MtBE/Tert-Butanol in ratios of over 20:1.

Approved By:

Joe Kiff



Date: 08/15/2004

Project Name: NAZ EAGLE GAS

Project Number: ZP046

Sample: MW-1

Matrix : Water

Lab Number: 39542-01

Sample Date :08/06/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 100	100	ug/L	EPA 8260B	08/12/2004
Toluene	< 100	100	ug/L	EPA 8260B	08/12/2004
Ethylbenzene	< 100	100	ug/L	EPA 8260B	08/12/2004
Total Xylenes	< 100	100	ug/L	EPA 8260B	08/12/2004
Methyl-t-butyl ether (MTBE)	26000	100	ug/L	EPA 8260B	08/12/2004
Diisopropyl ether (DIPE)	< 100	100	ug/L	EPA 8260B	08/12/2004
Ethyl-t-butyl ether (ETBE)	< 100	100	ug/L	EPA 8260B	08/12/2004
Tert-amyl methyl ether (TAME)	100	100	ug/L	EPA 8260B	08/12/2004
Tert-Butanol	250000	1000	ug/L	EPA 8260B	08/12/2004
TPH as Gasoline	< 10000	10000	ug/L	EPA 8260B	08/12/2004
Toluene - d8 (Surr)	103		% Recovery	EPA 8260B	08/12/2004
4-Bromofluorobenzene (Surr)	98.4		% Recovery	EPA 8260B	08/12/2004
TPH as Diesel	510	50	ug/L	M EPA 8015	08/10/2004
Octacosane (Diesel Surrogate)	104		% Recovery	M EPA 8015	08/10/2004

Approved By:

Joel Kiff



Date: 08/15/2004

Project Name: NAZ EAGLE GAS

Project Number: ZP046

Sample: MW-2

Matrix: Water

Lab Number : 39542-02

Sample Date :08/06/2004

Sample Date :08/06/2004		Method			
Parameter	Measured Value	Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	590	500	ug/L	EPA 8260B	08/13/2004
Toluene	< 500	500	ug/L	EPA 8260B	08/13/2004
Ethylbenzene	< 500	500	ug/L	EPA 8260B	08/13/2004
Total Xylenes	< 500	500	ug/L	EPA 8260B	08/13/2004
Methyl-t-butyl ether (MTBE)	810000	2000	ug/L	EPA 8260B	08/14/2004
Diisopropyl ether (DIPE)	< 500	500	ug/L	EPA 8260B	08/13/2004
Ethyl-t-butyl ether (ETBE)	< 500	500	ug/L	EPA 8260B	08/13/2004
Tert-amyl methyl ether (TAME)	3600	500	ug/L	EPA 8260B	08/13/2004
Tert-Butanol	17000 J	5000	ug/L	EPA 8260B	08/13/2004
TPH as Gasoline	< 50000	50000	ug/L	EPA 8260B	08/13/2004
Toluene - d8 (Surr)	91.5		% Recovery	EPA 8260B	08/13/2004
4-Bromofluorobenzene (Surr)	109		% Recovery	EPA 8260B	08/13/2004
TPH as Diesel	420	50	ug/L	M EPA 8015	08/10/2004
Octacosane (Diesel Surrogate)	106		% Recovery	M EPA 8015	08/10/2004

Approved By:

Joel Kiff



Date: 08/15/2004

Project Name: NAZ EAGLE GAS

Project Number: ZP046

Sample: MW-3

Matrix : Water

Lab Number: 39542-03

Sample Date: 08/06/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 200	200	ug/L	EPA 8260B	08/11/2004
Toluene	< 200	200	ug/L	EPA 8260B	08/11/2004
Ethylbenzene	< 200	200	ug/L	EPA 8260B	08/11/2004
Total Xylenes	< 200	200	ug/L	EPA 8260B	08/11/2004
Methyl-t-butyl ether (MTBE)	110000	250	ug/L	EPA 8260B	08/13/2004
Diisopropyl ether (DIPE)	< 200	200	ug/L	EPA 8260B	08/11/2004
Ethyl-t-butyl ether (ETBE)	< 200	200	ug/L	EPA 8260B	08/11/2004
Tert-amyl methyl ether (TAME)	760	200	ug/L	EPA 8260B	08/11/2004
Tert-Butanol	< 2500	2500	ug/L	EPA 8260B	08/13/2004
TPH as Gasoline	< 20000	20000	ug/L	EPA 8260B	08/11/2004
Toluene - d8 (Surr)	99.4		% Recovery	EPA 8260B	08/11/2004
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	08/11/2004
TPH as Diesel	78	50	ug/L	M EPA 8015	08/10/2004
Octacosane (Diesel Surrogate)	116		% Recovery	M EPA 8015	08/10/2004

Approved By:

Joel Kiff

Date: 08/15/2004

QC Report : Method Blank Data

Project Name: NAZ EAGLE GAS

Project Number: **ZP046**

		Method	-		D /
<u>Parameter</u>	Measured Value	Reporti Limit	ng Units	Analysis Method	Date Analyzed
TPH as Diesel	< 50	50	ug/L	M EPA 8015	08/10/2004
Octacosane (Diesel Surrogate)	112		%	M EPA 8015	08/10/2004
Benzene	< 0.50	0.50	ug/L	EPA 8260B	08/12/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	08/12/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	08/12/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	08/12/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	08/12/2004
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	08/12/2004
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	08/12/2004
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	08/12/2004
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	08/12/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	08/12/2004
Toluene - d8 (Surr)	98.0		%	EPA 8260B	08/12/2004
4-Bromofluorobenzene (Surr)	93.4		%	EPA 8260B	08/12/2004
Benzene	< 0.50	0.50	ug/L	EPA 8260B	08/10/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	08/10/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	08/10/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	08/10/2004
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	08/10/2004
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	08/10/2004
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	08/10/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	08/10/2004
Toluene - d8 (Surr)	95.1		%	EPA 8260B	08/10/2004
4-Bromofluorobenzene (Surr)	110		%	EPA 8260B	08/10/2004

Parameter	Measured Value	Method Reportir Limit	ig Units	Analysis Method	Date Analyzed
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	08/13/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	08/12/2004
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	08/12/2004
Benzene	< 0.50	0.50	ug/L	EPA 8260B	08/12/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	08/12/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	08/12/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	08/12/2004
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	08/12/2004
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	08/12/2004
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	08/12/2004
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	08/12/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	08/12/2004
Toluene - d8 (Surr)	93.3		%	EPA 8260B	08/12/2004
4-Bromofluorobenzene (Surr)	110		%	EPA 8260B	08/12/2004

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

Date: 08/15/2004

Project Name: NAZ EAGLE GAS

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Number: **ZP046**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Percent	Duplicat Spiked Sample Percent Recov.	Relative	Spiked Sample Percent Recov Limit	Relative Percent Diff, Limit
TPH as Diesel	Blank	<50	1000	1000	991	1080	ug/L	M EPA 8015	8/10/04	99.1	108	8.98	70-130	25
Benzene	39569-19	<0.50	37.5	37.5	39.9	40.2	ug/L	EPA 8260B	8/12/04	106	107	0.892	70-130	25
Toluene	39569-19	<0.50	37.5	37.5	39.4	40.0	ug/L	EPA 8260B	8/12/04	105	106	1.46	70-130	25
Tert-Butanol	39569-19	<5.0	188	188	189	174	ug/L	EPA 8260B	8/12/04	101	93.0	7.93	70-130	25
Methyl-t-Butyl Ethe	er 39569-19	0.91	37.5	37.5	40.3	40.4	ug/L	EPA 8260B	8/12/04	105	105	0.121	70-130	25
Benzene	39557-01	<0.50	40.0	40.0	39.3	38.8	ug/L	EPA 8260B	8/10/04	98.2	96.9	1.26	70-130	25
Toluene	39557-01	<0.50	40.0	40.0	39.3	39.4	ug/L	EPA 8260B	8/10/04	98.2	98.5	0.290	70-130	25
Tert-Butanol	39557-01	<5.0	200	200	199	206	ug/L	EPA 8260B	8/10/04	99.7	103	3.05	70-130	25
Methyl-t-Butyl Ethe	er 39557-01	6.3	40.0	40.0	50.1	51.0	ug/L	EPA 8260B	8/10/04	110	112	1.95	70-130	25
Benzene	39601-02	<0.50	40.0	40.0	40.4	39.8	ug/L	EPA 8260B	8/13/04	101	99.4	1.63	70-130	25
Toluene	39601-02	<0.50	40.0	40.0	38.6	38.5	ug/L	EPA 8260B	8/13/04	96.6	96.2	0.384	70-130	25
Tert-Butanol	39601-02	7300	200	200	7640	7460	ug/L	EPA 8260B	8/13/04	148	54.4	92.6	70-130	25
Methyl-t-Butyl Ethe	er 39601-02	10	40.0	40.0	48.2	50.4	ug/L	EPA 8260B	8/13/04	95.0	100	5.56	70-130	25
Benzene	39560-03	2.7	40.0	40.0	42.4	41.8	ug/L	EPA 8260B	8/12/04	99.2	97.8	1.40	70-130	25
Toluene	39560-03	13	40.0	40.0	52.0	51.9	ug/L	EPA 8260B	8/12/04	97.8	97.5	0.400	70-130	25
Tert-Butanol	39560-03	8.6	200	200	206	214	ug/L	EPA 8260B	8/12/04	98.6	102	3.93	70-130	25
Methyl-t-Butyl Ethe	er 39560-03	94	40.0	40.0	127	135	ug/L	EPA 8260B	8/12/04	83.1	101	19.8	70-130	25

Approved By: Joe Kiff

KIFF ANALYTICAL, LLC

Date: 08/15/2004

Project Name: NAZ EAGLE GAS

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Number: ZP046

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	e Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicat Spiked Sample Percent Recov.	Relative	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Benzene	39607-01	<0.50	40.0	40.0	40.9	39.9	ug/L	EPA 8260B	8/13/04	102	99.8	2.52	70-130	25
Toluene	39607-01	<0.50	40.0	40.0	41.3	40.5	ug/L	EPA 8260B	8/13/04	103	101	2.02	70-130	25
Tert-Butanol	39607-01	<5.0	200	200	192	192	ug/L	EPA 8260B	8/13/04	96.1	96.3	0.198	70-130	25
Methyl-t-Butyl Eth	er 39607-01	<0.50	40.0	40.0	40.0	39.6	ug/L	EPA 8260B	8/13/04	100	98.9	1.10	70-130	25

KIFF ANALYTICAL, LLC

Date: 08/15/2004

Project Name: NAZ EAGLE GAS

QC Report : Laboratory Control Sample (LCS)

Project Number: **ZP046**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit	
Benzene	40.0	ug/L	EPA 8260B	8/12/04	108	70-130	
Toluene	40.0	ug/L	EPA 8260B	8/12/04	105	70-130	
Tert-Butanol	200	ug/L	EPA 8260B	8/12/04	98.4	70-130	
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	8/12/04	108	70-130	
Benzene	40.0	ug/L	EPA 8260B	8/10/04	95.7	70-130	
Toluene	40.0	ug/L	EPA 8260B	8/10/04	97.9	70-130	
Tert-Butanol	200	ug/L	EPA 8260B	8/10/04	94.2	70-130	
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	8/10/04	114	70-130	
•		Ū					
Benzene	40.0	ug/L	EPA 8260B	8/13/04	98.6	70-130	
Toluene	40.0	ug/L	EPA 8260B	8/13/04	99.5	70-130	
Tert-Butanol	200	ug/L	EPA 8260B	8/13/04	111	70-130	
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	8/13/04	103	70-130	
		-3			,		
Benzene	40.0	ug/L	EPA 8260B	8/12/04	99.5	70-130	
Toluene	40.0	-	EPA 8260B	8/12/04	100	70-130	
		ug/L					
Tert-Butanol	200	ug/L	EPA 8260B	8/12/04	95.3	70-130	
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	8/12/04	97.5	70-130	
Benzene	40.0	ug/L	EPA 8260B	8/12/04	89.1	70-130	

KIFF ANALYTICAL, LLC

Approved By:

Joe Kiff

Date: 08/15/2004

Project Name: NAZ EAGLE GAS

QC Report : Laboratory Control Sample (LCS)

Project Number: **ZP046**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Toluene	40.0	ug/L	EPA 8260B	8/12/04	88.0	70-130
Tert-Butanol	200	ug/L	EPA 8260B	8/12/04	82.9	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	8/12/04	85.4	70-130

Approved By:

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Project Name: FAOK C	AS		ي 7	STONE OF THE PERSON OF THE PER	Signa	ire: کک	7	13	K	K	24		1	ITBE (80	8015)	(M8015)	TBE (82	H Gas/B	H Gas/B	80B)	(260B)	CA & 1,2	ist)	ns (EPA					772 hr.	For Lab Use Only
Project Address: 1) SAN LEAN GAD 57	Samp	ling	बा	Conta	iner	<u>U</u>	Tes	ervath	ve	Ma	trix	\Box	18)	Gas/N	Sel (M	tor O≝	TEXM	es/TP	es/TP	les (821	ses (8	(120	Full L	ocarbo	7239.2				/48 hr	e l
Sample Designation	Date	Time	40 ml VOA	SLEEVE		皇	Š H V O	2 G		WATER	SOIL		BTEX (8021B)	BTEX/TPH Gas/MTBE (8021B/M8015)	TPH as Diesel (M8015)	TPH as Motor Oil (M3015)	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)				12 hr/24 hr/48 hr/72 hr/1 wk	"
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Distribution: White - Lab, Pink - Originator		08090	77 (D930	1		% (<u>. Z</u>	<u> </u>			^~	-W	Dica.	.1													Forms	/coc	121001.fh9