

#### **RECEIVED**

2:52 pm, Apr 01, 2008

Alameda County Environmental Health

March 27, 2008

Mr. Steve Plunkett Alameda County Health Care Services Agency 1000 San Leandro Blvd., Suite 300 San Leandro, CA 94577

Re:

First Quarter 2008 Groundwater Monitoring Report

Palace Garage

14336 Washington Avenue San Leandro, California

SFRWQCB LUFT Case No. 01-1133

Dear Dr. Hunt:

On behalf of Kerry & Associates, Closure Solutions, Incorporated (Closure Solutions) is submitting the *First Quarter 2008 Groundwater Monitoring Report* for the Palace Garage facility, located at 14336 Washington Avenue, in San Leandro, California

If you have any questions regarding this submission, please contact Mr. Roger Hoffmore of Closure Solutions at (916) 983-5604, or at rhoffmore@closuresolutions.com.

HOFFMORE

Sincerely,

**CLOSURE SOLUTIONS** 

Senior Geologist

Enclosure: First Quarter 2008 Groundwater Monitoring Report

cc: Mr. Jeff Kerry, Kerry & Associates

aoDate: March 27, 2008

Quarter: 1Q 2008

## QUARTERLY GROUNDWATER MONITORING REPORT

SITE NAME:	Palace Garage
Address:	14336 Washington Avenue
	San Leandro, California
Responsible Party:	Kerry & Associates
Consulting Co./Contact Person:	Closure Solutions, Inc. / Ronald D. Chinn, P.E.
Primary Agency/Regulatory ID No.:	Case No. 01-1133 (San Francisco Bay RWQCB)

#### **WORK PERFORMED THIS QUARTER:** (First – 2008):

- 1. Prepared and submitted Fourth Quarter 2007 groundwater monitoring report.
- 2. Performed First Quarter 2008 groundwater monitoring event on February 21, 2008.

#### **WORK PROPOSED FOR NEXT QUARTER:** (Second – 2008):

- 1. Perform Second Quarter 2008 groundwater monitoring event.
- 2. Prepare and submit First Quarter 2008 groundwater monitoring report.

Current Phase of Project:	Monitoring
Groundwater Monitoring & Sampling:	Quarterly: MW-1, MW-2, MW-3, MW-4
Is Free Product (FP) Present On-Site:	No
Current Remediation Techniques:	Monitored Natural Attenuation
Depth to Groundwater:	13.56 ft (MW-4) to 13.72 ft (MW-1)
Groundwater Gradient (direction):	West
Groundwater Gradient (magnitude):	0.005

#### **DISCUSSION:**

The First Quarter 2008 Groundwater Monitoring and Sampling event was performed at the former Palace Garage facility located at 14336 Washington Avenue, in San Leandro, California on February 21, 2008 (Figure 1).

#### Site Background

A 550-gallon gasoline underground storage tank (UST) was removed from the site in 1991. Subsequent investigations included the installation of 3 monitoring wells and the drilling of 15 borings. Based on data obtained from the wells and borings, impacted unsaturated-zone soil is confined to the area of the former dispenser pad and UST. The primary groundwater flow direction is toward the southwest.

In December 2002, Professional Service Industries, Inc. (PSI) conducted a soil and groundwater investigation to evaluate the lateral extent of petroleum hydrocarbons in the soil and groundwater at the site. Borings B-16 and B-17 were advanced to between 20 and 24 feet below ground surface (bgs). Boring B-16 was converted into monitoring well MW-4. Concentration of total petroleum hydrocarbons as gasoline (TPHg) and gasoline related contaminants were detected only in soil from boring B-17 and groundwater from wells MW-1 and MW-2. The locations of the monitoring wells and soil borings are presented in Figure 1.

#### **DISCUSSION OF MONITORING & SAMPLING RESULTS:**

On February 21, 2008, Blaine Tech Services performed the monitoring and sampling activities at the site. A total of three monitoring wells (MW-1, MW-2 and MW-4) were gauged and sampled in accordance with Blaine Tech Services' Standard Operating Procedures (included in Attachment A). Monitoring well MW-3 was inaccessible (and was not gauged or sampled this event) due to the presence of a parked car over it. The collected groundwater samples and a trip blank sample were submitted to Kiff Analytical for laboratory analysis under Chain-of-Custody protocols.

The samples were analyzed for TPHg, benzene, toluene, ethylbenzene, and total xylenes (BTEX constituents), and the fuel additives Methyl-tertiary-Butyl Ether (MTBE), Diisopropyl Ether (DIPE), Tert-butyl Alcohol (TBA), Ethyl tert-butyl ether (EtBE), Tert-amyl methyl ether (TAME), Ethanol, Methanol, 1,2-Dichloroethane (1,2-DCA), and 1,2-Dibromoethane (EDB). TPHg, BTEX constituents and the fuel additives were analyzed by EPA Method 8260B.

TPHg was detected in two wells at concentrations of 19,000 micrograms per liter ( $\mu$ g/L) (MW-1) and 710  $\mu$ g/L (MW-2). Benzene was detected in two wells at concentrations of 300  $\mu$ g/L (MW-1) and 23  $\mu$ g/L (MW-2). Toulene was detected in well MW-1 at a concentration of 150  $\mu$ g/L. Ethylbenzene was detected in two wells at concentrations of 1,100  $\mu$ g/L (MW-1) and 6.2  $\mu$ g/L (MW-2). Xylenes were detected in two wells at concentrations of 4,900  $\mu$ g/L (MW-1) and 1.1  $\mu$ g/L (MW-2). No other analytes were detected above their respective laboratory reporting limit. Laboratory procedures, chain of custody records, and the certified analytical report for all analytes are included as Attachment B. Groundwater elevation and analytical data are summarized on Tables 1 and 2.

The average groundwater elevation at the Site during the monitoring and sampling event was 23.64 feet above mean sea level, which represents an increase of approximately 1.86 feet from the Fourth Quarter 2007 sampling event. The groundwater flow direction this event was calculated to be toward the west at a gradient of 0.005 ft/ft. Historical groundwater flow at the site is predominantly to the southwest.

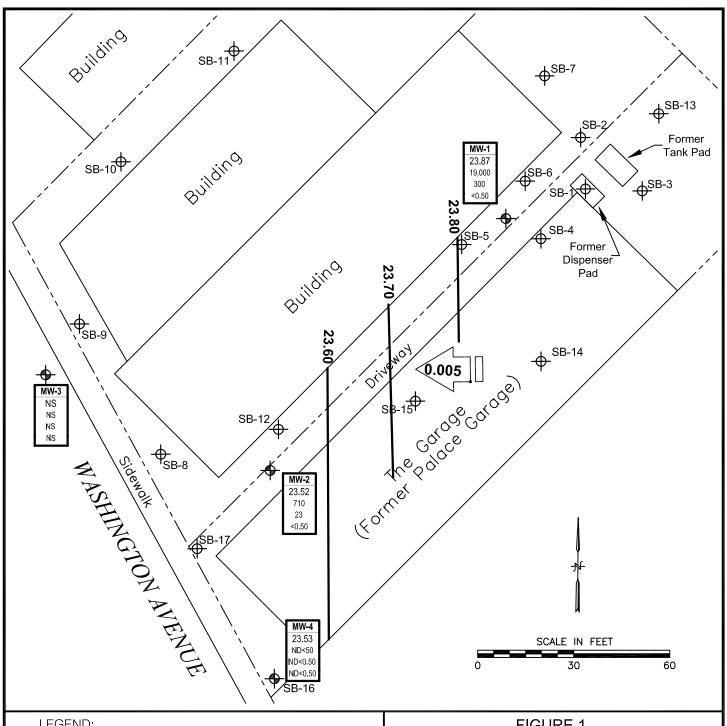
Purge water generated during the monitoring and sampling event was temporarily drummed on site pending transport and disposal at a licensed hazardous waste treatment facility.

#### **CURRENT STATUS/RECENT DEVELOPMENTS:**

Closure Solutions will continue to perform quarterly groundwater monitoring and sampling to monitor contaminant plume stability and degradation.

#### **ATTACHMENTS:**

- Figure 1 First Quarter 2008 Groundwater Elevation & Contour February 21, 2008
- Table 1 Groundwater Elevation and Analytical Data
- Table 2 Fuel Oxygenate and Lead Scavenger Analytical Data
- Attachment A Field Procedures and Field Data Sheets
- Attachment B Laboratory Procedure, Certified Analytical Reports and Chain-of-Custody Records





GROUNDWATER MONITORING WELL

SOIL BORING WELL

- WELL DESIGNATION

ELEV. TPHG BENZ MTBE

GROUNDWATER ELEVATION (FT ABOVE MSL)

TPHg, BENZENE AND MTBE CONCENTRATIONS (µg/L)

NOT DETECTED AT OR ABOVE LABORATORY REPORTING LIMITS ND<

NS NOT SAMPLED

FP FREE PRODUCT

GROUNDWATER ELEVATION NOT USED IN CONTOURING 21.61\*

GROUNDWATER ELEVATION CONTOURS (FEET ABOVE MEAN SEA LEVEL)



GROUNDWATER FLOW DIRECTION AND GRADIENT

#### NOTES:

1. BASEMAP SOURCE: MORROW SURVEYING, 2/05/03

#### FIGURE 1

FIRST QUARTER 2008 GROUNDWATER MONITORING & SAMPLING RESULTS

# **GROUNDWATER FLOW DIRECTION** & CHEMICAL CONCENTRATIONS

**FEBURARY 21, 2008** 

PALACE GARAGE 14336 WASHINGTON AVENUE SAN LEANDRO, CALIFORNIA



# CLOSURE SOLUTIONS, INC.

1243 Oak Knoll Drive • Concord California • 94521 Phone: (925) 429-5555 • Fax: (925) 459-5602

 Table 1

 Groundwater Elevation and Analytical Data

#### Palace Garage 14336 Washington Avenue San Leandro, California

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (Feet)	TPHg (μg/L)	B (µg/L)	T (µg/L)	E (µg/L)	Χ (μg/L)	LAE
MW-1	12/31/2002	37.59	13.62	23.97	48,000	1,030	2,380	1,690	9,220	
	9/22/2006		13.33	24.26	44,000	870	2,200	720	9,700	
	12/21/2006		13.94	23.65	17,000	240	980	180	5,000	
	3/29/2007		13.71	23.88	2,000	30	85	23	550	
	9/27/2007		15.53	22.06	540	14	3.9	44	87	KIF
	12/20/2007		15.69	21.90	280	4.3	1.3	15	37	KIF
	2/21/2008		13.72	23.87	19,000	300	150	1,100	4,900	KIF
MW-2	12/31/2002	37.12	13.38	23.74	1,670	1,030	11.00	23	16.4	
	9/22/2006		13.25	23.87	1,800	53	1.40	14	7.5	
	12/21/2006		13.89	23.23						
	3/29/2007		13.57	23.55	2,100	51	1.30		4.5	
	9/27/2007		15-37	21.75	1,600	58	0.99	12	3.7	KIF
	12/20/2007		15.40	21.72	1,500	63	1.1	16	4.9	KIF
	2/21/2008		13.60	23.52	710	23	ND<0.50	6.2	1.1	KIF
MW-3	12/31/2002	37.01	13.29	23.72	<50	<0.5	<0.5	<0.5	<1.0	
141 44 - 3	9/22/2006	37.01	13.14	23.87	<50	<0.5	<0.5	<0.5	<1.5	
	12/21/2006									
	3/29/2007		13.47	23.54	<50	<0.5	<0.5	<0.5	<1.5	
	9/27/2007		15.29	21.72	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	KIF
	12/20/2007		15.30	21.71	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	KIF
	2/21/2008									
MW-4	12/31/2002	37.09	13.45	23.64	<50	<0.5	<0.5	<0.5	<1.0	
1V1 VV -4	9/22/2006	51.09	13.43	23.69	<50	<0.5	<0.5	<0.5	<1.0 <1.5	
	12/21/2006		13.40		<50		<0.5	<0.5	<1.5 <1.5	
	3/29/2007			23.23 23.40	<50	<0.5 <0.5	<0.5 <0.5			
	3/29/2007 9/27/2007		13.69 15.48	23.40	<50 ND<50	<0.5 1.5	<0.5 ND<0.50	<0.5 0.71	<1.5 0.74	KIF
										KIF
	12/20/2007 2/21/2008		15.28 13.56	21.81 23.53	ND<50 ND<50	ND<0.50 ND<0.50	ND<0.50 ND<0.50	ND<0.50 ND<0.50	ND<0.50 ND<1.0	KIF

#### Table 1

#### Groundwater Elevation and Analytical Data

Palace Garage 14336 Washington Avenue San Leandro, California

#### ABBREVIATIONS:

TPHg Total Petroleum Hydrocarbons as Gasoline

B Benzene
T Toluene
E Ethylbenzene
X Total xylenes

ug/L Micrograms per liter (parts per billion [ppb])

--- Not analyzed/measured/applicable

ND< Not detected at or above specified laboratory reporting limit

KIFF Kiff Analytical LLC, Davis, Ca NA Not Accessible / Not Available

NS No Sampled Bold Detection

#### LIMITATIONS:

Background information, including but not limited to previous field measurements, analytical results, Site plans, and other data have been obtained from previous consultants, and/or third parties, in the preparation of this report. Closure Solutions has relied on this information as furnished. Closure Solutions is not responsible for, nor has it confirmed the accuracy of data collected or generated by others.

 Table 2

 Fuel Oxygenate & Lead Scavenger Analytical Data

#### Palace Garage 14336 Washington Avenue San Leandro, California

Well Number	Date Sampled	MTBE (μg/L)	TBA (μg/L)	DIPE (μg/L)	ETBE (μg/L)	TAME (μg/L)	1,2-DCA (μg/L)	EDB (µg/L)	LAF
MW-1	12/31/2002	< 0.5							
	9/22/2006	<1.0							
	12/21/2006	3.9							
	3/29/2007	<1.0							
	9/27/2007	1.6	ND<5.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	KIF
	12/21/2007	1.5	ND<5.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	KIF
	2/21/2008	ND<7.0	ND<40	ND<7.0	ND<7.0	ND<7.0	ND<7.0	ND<7.0	KIF
MW-2	12/31/2002	<0.5							
2	9/22/2006	<1.0							
	12/21/2006								
	3/29/2007	1.10							
	9/27/2007	0.89	ND<5.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	KIF
	12/20/2007	0.95	ND<5.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	KIF
	2/21/2008	ND<0.50	ND<5.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	KIF
MW-3	12/31/2002	<0.5							
11111 5	9/22/2006	<1.0							
	12/21/2006								
	3/29/2007	<1.0							
	9/27/2007	ND<0.50	ND<5.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	KIF
	12/20/2007	ND<0.50	ND<5.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	KIF
	2/21/2008								
MW-4	12/31/2002	<0.5							
141 AA	9/22/2006	<1.0							
	12/21/2006	<1.0							
	3/29/2007	<1.0							
	9/27/2007	ND<0.50	ND<5.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	KIF
	12/20/2007	ND<0.50 ND<0.50	ND<5.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	KIF
	2/21/2008	ND<0.50	ND<5.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	KIF

#### Table 2

Fuel Oxygenate & Lead Scavanger Analytical Data

Palace Garage 14336 Washington Avenue San Leandro, California

#### ABBREVIATIONS:

MTBE Methyl Tertiary Butyl Ether
TBA Tertiary Butyl Alcohol
DIPE Diisopropyl Ether
ETBE Ethyl Tertiary Butyl ether
TAME Tertiary Amyl Methyl Ether
1,2-DCA 1,2-Dichloroethane
EDB 1,2-Dibromoethane

KIFF Kiff Analytical LLC, Davis, Ca

ug/L Micrograms per liter (parts per billion [ppb])

--- Not analyzed/measured/applicable

ND\* Not detected at or above raised laboratory detection limits ND< Not detected at or above specified laboratory reporting limit

NA Not Accessible / Not Available

NS Not Sampled Bold Detection

Note: Analysis for all VOC's not reported in tables can be found in Attachment B.

#### LIMITATIONS:

Background information, including but not limited to previous field measurements, analytical results, Site plans, and other data have been obtained from previous consultants, and/or third parties, in the preparation of this report. Closure Solutions has relied on this information as furnished. Closure Solutions is not responsible for, nor has it confirmed the accuracy of data collected or generated by others.

# Attachment A

**Field Procedures and Field Data Sheets** 

PURGING SOP Page 1 of 3

# Blaine Tech Services, Inc. Standard Operating Procedure

# **WELL WATER EVACUATION (PURGING)**

#### **Purpose**

Evacuation of a predetermined minimum volume of water from a well (purging) while *simultaneously* measuring water quality parameters is typically required prior to sampling. Purging a minimum volume guarantees that actual formation water is drawn into the well. Measuring water quality parameters either verifies that the water is stable and suitable for sampling or shows that the water remains unstable, indicating the need for continued purging. Both the minimum volume and the stable parameter qualifications need to be met prior to sampling. This assures that the subsequent sample will be representative of the formation water surrounding the well screen and not of the water standing in the well.

#### **Defining Casing Volumes**

The predetermined minimum quantity of water to be purged is based on the wells' casing volume. A casing volume is the volume of water presently standing within the casing of the well. This is calculated as follows:

Casing Volume = (TD – DTW) VCF

- 1. Subtract the wells' depth to water (DTW) measurement from its total depth (TD) measurement. This is the height of the water column in feet.
- 2. Determine the well casings' volume conversion factor (VCF). The VCF is based on the diameter of the well casing and represents the volume, in gallons, that is contained in one (1) foot of a particular diameter of well casing. The common VCF's are listed on our Well Purge Data Sheets.
- 3. Multiply the VCF by the calculated height of the water column. This is the casing volume, the amount of water in gallons standing in the well.

#### **Remove Three to Five Casing Volumes**

Prior to sampling, an attempt will be made to purge all wells of a minimum of three casing volumes and a maximum of five casing volumes except where regulations mandate the minimum removal of four casing volumes.

#### **Choose the Appropriate Evacuation Device Based on Efficiency**

In the absence of instructions on the SOW to the contrary, selection of evacuation device will be based on efficiency.

PURGING SOP Page 2 of 3

#### Measure Water Quality Parameters at Each Casing Volume

At a minimum, water quality measurements include pH, temperature and electrical conductivity (EC). Measurements are made and recorded at least once every casing volume. They are considered stable when all parameters are within 10% of their previous measurement.

Note: The following instructions assume that well has already been properly located, accessed, inspected and gauged.

#### **Prior to Purging a Well**

- 1. Confirm that the well is to be purged and sampled per the SOW.
- 2. Confirm that the well is suitable based on the conditions set by the client relative to separate phase.
- 3. Calculate the wells' casing volume.
- 4. Put new Latex or Nitrile gloves on your hands.

#### Purging With a Bailer (Stainless Steel, Teflon or Disposable)

- 1. Attach bailer cord or string to bailer. Leave other end attached to spool.
- 2. Gently lower empty bailer into well until well bottom is reached.
- 3. Cut cord from spool. Tie end of cord to hand.
- 4. Gently raise full bailer out of well and clear of well head. Do not let the bailer or cord touch the ground.
- 5. Pour contents into graduated 5-gallon bucket or other graduated receptacle.
- 6. Repeat purging process.
- 7. Upon removal of first casing volume, fill clean parameter cup with purgewater, empty the remainder of the purgewater into the bucket, lower the bailer back into the well and secure the cord on the Sampling Vehicle.
- 8. Use the water in the cup to collect and record parameter measurements.
- 9. Continue purging until second casing volume is removed.
- 10. Collect parameter measurements.
- 11. Continue purging until third casing volume is removed.
- 12. Collect parameter measurements. If parameters are stable, stop purging. If parameters remain unstable, continue purging until stabilization occurs or the fifth casing volume is removed.

#### **Purging With a Pneumatic Pump**

- 1. Position Pneumatic pump hose reel over the top of the well.
- 2. Gently unreel and lower the pump into the well. Do not contact the well bottom.
- Secure the hose reel.
- 4. Begin purging into graduated 5-gallon bucket or other graduated receptacle.
- 5. Adjust water recharge duration and air pulse duration for maximum efficiency.
- 6. Upon removal of first casing volume, fill clean parameter cup with water.
- 7. Use the water in the cup to collect and record parameter measurements.
- 8. Continue purging until second casing volume is removed.

PURGING SOP Page 3 of 3

- 9. Collect parameter measurements.
- 10. Continue purging until third casing volume is removed.
- 11. Collect parameter measurements. If parameters are stable, stop purging. If parameters remain unstable, continue purging until stabilization occurs or the fifth casing volume is removed.
- 12. Upon completion of purging, gently recover the pump and secure the reel.

#### Purging With a Fixed Speed Electric Submersible Pump

- 1. Position Electric Submersible hose reel over the top of the well.
- 2. Gently unreel and lower the pump to the well bottom.
- 3. Raise the pump 5 feet off the bottom.
- 4. Secure the hose reel.
- 5. Begin purging.
- 6. Verify pump rate with flow meter or graduated 5-gallon bucket
- 7. Upon removal of first casing volume, fill clean parameter cup with water.
- 8. Use the water in the cup to collect and record parameter measurements.
- 9. Continue purging until second casing volume is removed.
- 10. Collect parameter measurements.
- 11. Continue purging until third casing volume is removed.
- 12. Collect parameter measurements. If parameters are stable, stop purging. If parameters remain unstable, continue purging until stabilization occurs or the fifth casing volume is removed.
- 13. Upon completion of purging, gently recover the pump and secure the reel.

Sampling SOP Page 1 of 1

## Blaine Tech Services, Inc. Standard Operating Procedure

# SAMPLE COLLECTION FROM GROUNDWATER WELLS USING BAILERS

#### Sampling with a Bailer (Stainless Steel, Teflon or Disposable)

- 1. Put new Latex or Nitrile gloves on your hands.
- 2. Determine required bottle set.
- 3. Fill out sample labels completely and attach to bottles.
- 4. Arrange bottles in filling order and loosen caps (see Determine Collection Order below).
- 5. Attach bailer cord or string to bailer. Leave other end attached to spool.
- 6. Gently lower empty bailer into well until water is reached.
- 7. As bailer fills, cut cord from spool and tie end of cord to hand.
- 8. Gently raise full bailer out of well and clear of well head. Do not let the bailer or cord touch the ground. If a set of parameter measurements is required, go to step 9. If no additional measurements are required, go to step 11.
- 9. Fill a clean parameter cup, empty the remainder contained in the bailer into the sink, lower the bailer back into the well and secure the cord on the Sampling Vehicle. Use the water in the cup to collect and record parameter measurements.
- 10. Fill bailer again and carefully remove it from the well.
- 11. Slowly fill and cap sample bottles. Fill and cap volatile compounds first, then semivolatile, then inorganic. Return to the well as needed for additional sample material.

Fill 40-milliliter vials for volatile compounds as follows: Slowly pour water down the inside on the vial. Carefully pour the last drops creating a convex or positive meniscus on the surface. Gently screw the cap on eliminating any air space in the vial. Turn the vial over, tap several times and check for trapped bubbles. If bubbles are present, repeat process.

Fill 1 liter amber bottles for semi-volatile compounds as follows: Slowly pour water into the bottle. Leave approximately 1 inch of headspace in the bottle. Cap bottle.

Field filtering of inorganic samples using a stainless steel bailer is performed as follows: Attach filter connector to top of full stainless steel bailer. Attach 0.45 micron filter to connector. Flip bailer over and let water gravity feed through the filter and into the sample bottle. If high turbidity level of water clogs filter, repeat process with new filter until bottle is filled. Leave headspace in the bottle. Cap bottle.

Field filtering of inorganic samples using a disposable bailer is performed as follows: Attach 0.45 micron filter to connector plug. Attach connector plug to bottom of full disposable bailer. Water will gravity feed through the filter and into the sample bottle. If high turbidity level of water clogs filter, repeat process with new filter until bottle is filled. Leave headspace in the bottle. Cap bottle.

- 12. Bag samples and place in ice chest.
- 13. Note sample collection details on well data sheet and Chain of Custody.

BLAINE TECH SERVICES, INC SAN JOSE LOS ANGELES SACRAMENTO SAN DIEGO

# SrH or Purge Water Drum Log

Client: Palace Garage						
Client: Palace Garage Site Address: 14336 Washing	fon the.	San Le	eandro			
STATUS OF DRUM(S) UPON	ARRIVAL					
Date	9/27/57	12/20/07	02/21/86	THE STATE OF THE PERSON OF THE	STANCE SECURITY CONTRACTOR SECURITY SEC	Employ Control
Number of drum(s) empty:			0			
Number of drum(s) 1/4 full:						
Number of drum(s) 1/2 full:						
Number of drum(s) 3/4 full:						
Number of drum(s) full:	124%	<b>7</b> ?	Margh			
Total drum(s) on site:	12	13	12			
Are the drum(s) properly labeled?	2	3N 14	17'			
Drum ID & Contents:	7 1	> purgend	profe the			
If any drum(s) are partially or totally filled, what is the first use date:						
<ul> <li>If you add any SPH to an empty or partially</li> <li>If drum contains SPH, the drum MUST be s</li> <li>All BTS drums MUST be labeled appropriate</li> </ul>	teel AND labe	led with the ap				
STATUS OF DRUM(S) UPON						
Date	9/27/51	12/20/07	02/21/08			
Number of drums empty:						
Number of drum(s) 1/4 full:						
Number of drum(s) 1/2 full:						
Number of drum(s) 3/4 full:	17 01002		<b>YB</b> 12			
Number of drum(s) full:	12 NONBB		QUAD 12			
Total drum(s) on site:	13	L 13	1 (Cap) (D			
Are the drum(s) properly labeled?  Drum ID & Contents:	purge Hz O.		pur M20			
CONTROL CHESTANIA MANAGANIAN CANADAGO CONTROL	Jung 1720		The Action			
LOCATION OF DRUM(S)		0 7/4		101	1 / C	
Describe location of drum(s): in t	he sack i	of facou	Garage	by Che	an //weefth	C.
FINAL STATUS						
Number of new drum(s) left on site this event	l	0	l			
Date of inspection:	9/27/51	12/20/07	ortritsus			
Drum(s) labelled properly:	XY _	1 7	19			
Logged by BTS Field Tech:	FE	80	JA .			
Office reviewed by:	\ \mathcal{A}	N	400			

BLA	INE	SAN J	10 IOSE, CA	680 ROC	GERS AVEN NIA 95112-11	UE 105		СО	NDUC	TANAL	YSIS	TO DE	TECT	LAB <b>Kiff</b>	DHS #
TECH SEF				FAX	(408) 573-77 (408) 573-05	771		(60B)						ALL ANALYSES MUST MEET SPECIFICATIONS AND DETEC SET BY CALIFORNIA DHS AND	TON LIMITS
CHAIN OF CU			W			7		(5) Oxygenates (8260B)						☐ EPA ☐ RWQCB REGION☐ LIA☐ OTHER	
CLIENT		BTS#				H.S.		gena							
SITE	Closure		ons			CONTAINERS		Oxy						SPECIAL INSTRUCTIONS Project Contact: R	on Chinn lutions.com
	Palace (	Garage				- SON		(5)						Invoice and Report to: Closure Solutions 925.348.0656 Office 1234 Oak Knoll Dr. 925.459.5602 Fax	
	14336 V	Vashing	ton Av	e.		ALL (	<b>a</b>	/w s						Concord, CA 94521  Global ID: T060010143 Report (PDF) and EDF to Ron Chinn (email)	
	San Lea	ndro, CA					260	VOC's						EDF required	
			MATRIX	COI	NTAINERS	COMPOSITE	80	Scan V							
SAMPLE I.D.	DATE	TINAF	S= SOIL W=H <sub>2</sub> 0			11	TPH-g (8260B)	Full Sc							
MW-1	02/21	1 25/		TOTAL	3 HCL VOAS	U								ADD'L INFORMATION STATUS CONDITION LA	B SAMPLE#
MW-2			W	3	3 HCL VOAS	-	Х	Х	<u> </u>						
MW-3	02/21	12//	W	3	3 HCL VOAS		X	X							
MW-4	02/21	[13]	W	3	3 HCL VOAS	$\vdash$	*	X							
141 44		112	W	3		-	X	X	<u> </u>						
		<u> </u>				ļ	<u> </u>								
						-									
	-														-
						-									-
												-			
SAMPLING COMPLETED	DATE 62/21		SAMPLI PERFOR		Y M.P.	1/20	as,		E.					RESULTS NEEDED	<del></del>
RELEASED BY						DAT	Ē		TIME		. 1	RECEIV	/ED BY	NO LATER THAN Standard	TIME
RELEASED BY							1211		130					(5mg/ custom) DE/2 1/08	1533
WH C	Saple	· Costs	Da			DAT	= 22/0	ఎద్ర	TIME くらつ	57		RECE	ED BY	DATE	TIME
RELEASED BY						DAT			TIME			RECEI		DATE DATE	1037
SHIPPED VIA			·			DATI	E SEN	ΤΊ	TIME	SENT		COOLE	R#		

# **TEST EQUIPMENT CALIBRATION LOG**

PROJECT NAM	ΛE			PROJECT NUI	VIBER		
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP.	INITIALS
Myen- Who me h	612194	6421/56 1023	9.0 w.o 7.0	3.55 10.01 7.01	775	16.3	B
		Cink	370>	3659	Ź	1	
Hack turbolanter VSF550 NO.	29033		20 100 0.1	101	95		
YS7550	0381062		100%	10z	2		
		V		Ψ.			
		,				4	<i>V</i>
							·

# WELLHEAD INSPECTION CHECKLIST

Page \_\_\_\_ of \_\_\_\_\_

Date 02/2/	108	_ Client	17050	ine E	solugh	~//			
Site Address /	336 W	ashing	La	, 5-	n Cear	dus	, Ce	·	
Date 02/2/ Site Address /4  Job Number	180221	-MD?	2	Tec	hnician	mik	2160	(E	ATTO SHOW HE SHOW I SHO
Well ID	Well Inspected - No Corrective Action Required	Water Bailed From Wellbox	I	Cap Replaced	Debris Removed From Wellbox	Lock Replaced	Other Action Taken (explain below)	In:	/ell Not spected explain pelow)
MW-1 MW-Z	8								
MW-Z $MW3$	5	×	Pakh	Led .	0101	2_			
VER MONT	1								
,									
			•						
				A-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1					
•									
								-	
NOTES:							***************************************	L	
						7			
			····				-		

#### WELL GAUGING DATA

Project # 080221-m02 Date 02/21/08 Client Cho Sun 50/6/2019
Site 19336 Wash. Jan Am, Son Leandw, Ca

Well ID	Time	Well Size (in.)	Sheen / Odor		Thickness of Immiscible Liquid (ft.)	Immiscibles Removed	1	Depth to well bottom (ft.)	Survey Point: TOB or	Notes
mw - 1	1050	2					13.72	23.47		,
mw-1 mw-2	1055	7					13.72	23.61		
mw-3 mw-4	1	Z		- well	Par	hed ou	08			
mw-4	1098						13.56	静17.23		
							·			

# WELL MONITORING DATA SILLE

Project#: 👌	80221-	m02		Client: Closar	· Sludmi	Palace Course			
Sampler:	MO			Date: 02/2/	08				
Well I.D.: /	mw-	/		Well Diameter: 2 3 4 6 8					
Total Well l	Depth (TD	): て:	3.97	Depth to Water (DTW): /3.72					
Depth to Fro	ee Product	•		Thickness of F	ree Product (fee	et):			
Referenced	to:	<b>PVO</b>	Grade	D.O. Meter (if	req'd):	YSI HACH			
DTW with 8	30% Recha	arge [(H	leight of Water	Column x 0.20	) + DTW]: \	15.67			
4	Disposable Barrie Positive Air Electric Subm	Displaceme nersible	ont Extrac	Waterra Peristaltic stion Pump  Well Diamete	0.04 4"	Bailer Sposable Bailer Extraction Port Dedicated Tubing  Diameter Multiplier  0.65			
1.5 (C 1 Case Volume	Gals.) X Speci	S fied Volum	${\text{des}} = \frac{4.5}{\text{Calculated Vo}}$	_Gals. <u></u>	0.16 6" 0.37 Other	1.47 radius <sup>2</sup> * 0.163			
Time	Temp (°F or C)	рН	Cond. (mS or as)	Turbidity (NTUs)	Gals. Removed	Observations			
1232	16.4	7.4 1	884	47	1.5				
1235	16.6	7.45		52	3,0				
1240	16.7	7.21	912	34	9.5	baor			
Did well der	water?	Yes (	No	Gallons actuall	y evacuated:	4.5			
Sampling D	ate: 62   21	1/08	Sampling Time	e: [25]	Depth to Water	r: 13.97			
Sample I.D.	: mw	- /		Laboratory:	Kiff CalScience	Other			
Analyzed fo	COC								
EB I.D. (if a	pplicable)		@ Time	Duplicate I.D. (if applicable):					
Analyzed fo	r: TPH-G	BTEX	MTBE TPH-D	Oxygenates (5)	Other:				
D.O. (if req'	d): Pr	e-purge:		<sup>mg</sup> / <sub>L</sub> Post-purge:					
O.R.P. (if re	q'd): Pr	e-purge:		mV P	ost-purge:	mV			

# WELL MONITORING DATA SHEE.

Project #: ¿	58022	1 - pri	) Z	Client:	Closu	a Silaly	Palace Going				
Sampler:	mo			I	52/21		-				
Well I.D.:	mw-i	2		Well D	iameter:	: ② 3 4	6 8				
Total Well	Depth (TD	)): <u>2</u>	3.6/	Depth to Water (DTW): 13.6 $\circ$							
Depth to Fr	ee Product	[:		Thickness of Free Product (feet):							
Referenced	to:	PVO	Grade	D.O. M	leter (if	req'd):	YSI HACH				
DTW with	80% Rech	arge [(H	leight of Water	Column	x 0.20)	) + DTW]: 15	. 6 0				
Purge Method:	Bailer Disposable Bailer Positive Air I Electric Subm	Displaceme	ent Extrac	Waterra Peristaltic ction Pump		Sampling Method: Other:	Bisposable Bailer Extraction Port Dedicated Tubing				
L. 6 (() 1 Case Volume	Gals.) XSpeci	ろ ified Volum	$= \frac{\cancel{4} \cdot \cancel{8}}{\text{Calculated Vo}}$	_ Gals.	Well Diamete 1" (2" 3"	Multiplier   Well E	Oiameter Multiplier 0.65 1.47 radius <sup>2</sup> * 0.163				
Time	Temp	рН	Cond. (mS or US)	Turb (NT	-	Gals. Removed	Observations				
1159	16.3	7.36	973	47	7	1.6	-				
1201	16.8	7.17	975	31	2	3.2					
1203	17.1	7.22	972	26	1	4.8	Name and American				
Did well de	water?	Yes (	N	Gallons	actuall	y evacuated:	9.8				
Sampling D	ate: 02/2	1/0%	Sampling Time	e: 121	11	Depth to Water	r: <i>19.</i> 31				
Sample I.D.	: MW	-2		Laborat	ory:	Kiff CalScience	Other				
Analyzed fo	or: TPH-G	BTEX	MTBE TPH-D	Oxygena	tes (5)	Other: . Sce	COC				
EB I.D. (if a	applicable)	):	@ Time	Duplica	ite I.D. (	(if applicable):					
Analyzed for	or: TPH-G	BTEX	MTBE TPH-D	Oxygena	tes (5)	Other:					
D.O. (if req'	d): Pr	re-purge:	A CONTRACTOR OF THE CONTRACTOR	mg/ <sub>L</sub>	P	ost-purge:	<sup>mg</sup> /L				
O.R.P. (if re	eq'd): Pr	re-purge:		mV	P	ost-purge:	mV				

## WELL MONITORING DATA SHEEL

Project #: 68 02	21 - M	02	Client	: Closu	ne Solasis	5.			
Sampler: MI)			Date:	52/21	108	:			
Well I.D.: Mw-	. 3		Well Diameter: 2 3 4 6 8						
Total Well Depth (T	 D):		Depth to Water (DTW):						
Depth to Free Produ	ct:		Thicki	ness of F	ree Product (fe	et):			
Referenced to:	PVC	Grade	D.O. N	Meter (if	req'd):	YSI HACH			
DTW with 80% Rec	harge [(E	leight of Water	Colum	n x 0.20)	) + DTW]:				
Electric Sul	r Displaceme	ent Extrac Other	Waterra Peristaltic tion Pump  Gals.		Other:  Multiplier Well I  0.04  0.16  0.37  Other	Disposable Bailer Extraction Port Dedicated Tubing  Diameter Multiplier  0.65  1.47			
Temp (°F or °C	<del></del>	Cond. (mS or µS)	1	bidity TUs)	Gals. Removed	Observations			
	By	Red Sur							
		D 6 R	51	1					
	1/0	<u> </u>	/	/ 1/0	Sample				
Did well dewater?	Yes	No	Gallon	s actuall	y evacuated:				
Sampling Date:	_/_	Sampling Time	e:		Depth to Wate	r:			
Sample I.D.:			Labora	itory:	Kiff CalScience	e Other			
Analyzed for: TPH-C	BTEX	MTBE TPH-D	Oxygen	ates (5)	Other:				
EB I.D. (if applicable	e):	@ Time	Duplic	ate I.D.	(if applicable):				
Analyzed for: TPH-0	G BTEX	МТВЕ ТРН-Д	Oxygen		Other:				
D <sub>t</sub> O. (if req'd):	Pre-purge:		mg/ <sub>L</sub>	Р	ost-purge:	mg/ <sub>L</sub> .			
O.R.P. (if reg'd):	Pre-purge:	,	mV	Р	ost-purge:	mV			

# WELL MONITORING DATA SHEEL

Project #: (	06022	21-11	NDZ	Client: Chos	Ture 5 /48:0.	S, Pand, G
Sampler: 4	In D			Date: 02		
Well I.D.:	Mw-	4		Well Diamete	r: 2 3 4	6 8 (12)
Total Well	Depth (TD	)): / -	7.25	Depth to Wate	er (DTW): /	3.56
Depth to Fr	ee Product			Thickness of	Free Product (fee	et):
Referenced	to:	PVE	Grade	D.O. Meter (i	f req'd):	YSI HACH
DTW with	80% Rech	arge [(H	leight of Water	Column x 0.20	0) + DTW]:	14.29
	Disposable B Positive Air I Electric Subn	Displaceme nersible	Other Dec	Waterra Peristaltic ction Pump  he La fibe and L  Well Diame	<u></u> 0 111011.	Disposable Bailer Extraction Port  Dedicated Tubing
0.15 (Case Volume		≾ fied Volum	$\frac{1}{10000000000000000000000000000000000$	[] 3"	0.16 6" 0.37 Other	1.47 radius² * 0.163
Time	Temp (°F or C)	рН	Cond. (mS or (LS)	Turbidity (NTUs)	Gals. Removed	Observations
6116	56.2	B.33	723	757	0.15	
1119	57.0	7,77	783	7/000	0.36	<b>Q</b>
1121	59.2	7.60	653	7/000	0.95	
Did well de	water?	Yes	NO	Gallons actua	lly evacuated:	0-45
Sampling D	ate: 62 (	21/58	Sampling Time	e: //3/	Depth to Wate	r: 13.76
Sample I.D.	: Mw	4		Laboratory:	Kiff CalScience	e Other
Analyzed fo	or: TPH-G	BTEX	MTBE TPH-D	Oxygenates (5)	Other: See	Coc
EB I.D. (if a	applicable)	):	@ Time	Duplicate I.D.	. (if applicable):	
Analyzed fo	or: TPH-G	BTEX	MTBE TPH-D	Oxygenates (5)	Other:	
D.O. (if req	'd): Pı	re-purge:	and the second s	mg/L	Post-purge:	mg/ <sub>L</sub>
O.R.P. (if re	ea'd): Pi	re-purge:		mV	Post-purge:	mV

# **Attachment B** Laboratory Procedures, Certified Analytical Reports and Chain-of-Custody Records



Date: 2/28/2008

Ron Chinn Closure Solutions, Inc. 1243 Oak Knoll Drive Concord, CA 94521

Subject: 3 Water Samples

Project Name: Palace Garage 14336 Washington San Leandro

Project Number:

Dear Mr. Chinn,

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: 2/28/2008

Subject: 3 Water Samples

Project Name: Palace Garage 14336 Washington San Leandro

Project Number:

# **Case Narrative**

The Method Reporting Limit for Styrene has been increased due to the presence of an interfering compound for sample MW-1.

Approved By:

Jde Kiff

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



Measured

Value < 7.0

< 7.0

1100

3500

1400

< 50

< 7.0

< 7.0

< 7.0

110

< 7.0

170

< 15

< 7.0

820

8.3

< 7.0

< 7.0

< 7.0

< 7.0

< 7.0

< 7.0

< 7.0

230

< 7.0

99.5

97.7

103

14

46

**MRL** 

7.0

7.0

7.0

15

7.0

7.0

7.0

7.0

7.0

7.0

7.0

7.0

15

7.0

7.0

7.0

7.0

7.0

7.0

7.0

7.0

7.0

7.0

7.0

7.0

7.0

50 (2)

Units

ug/L

% Recovery

% Recovery

% Recovery

Date: 2/28/2008

Sample: MW-1

Project Name: Palace Garage 14336 Washington San Leandro

Project Number: Lab Number: 61198-01 Date Analyzed: 2/28/2008

Matrix : Water Sample Date :2/21/2008 Analysis Method: EPA 8260B

Parameter	Measur Value	ed 1 MRL	Units	Parameter
TPH as Gasoline	19000	700	ug/L	Chlorobenzene
				1,1,1,2-Tetrachloroethane
Methyl-t-butyl ether (MTBE)	< 7.0	7.0	ug/L	Ethylbenzene
Diisopropyl ether (DIPE)	< 7.0	7.0	ug/L	P,M-Xylene
Ethyl-t-butyl ether (ETBE)	< 7.0	7.0	ug/L	O-Xylene
Tert-amyl methyl ether (TAME)	< 7.0	7.0	ug/L	Styrene
Tert-Butanol	< 40	40	ug/L	Isopropyl benzene
				Bromoform
Dichlorodifluoromethane	< 7.0	7.0	ug/L	1,1,2,2-Tetrachloroethane
Chloromethane	< 7.0	7.0	ug/L	1,2,3-Trichloropropane
Vinyl Chloride	< 7.0	7.0	ug/L	n-Propylbenzene
Bromomethane	< 25	25	ug/L	Bromobenzene
Chloroethane	< 7.0	7.0	ug/L	1,3,5-Trimethylbenzene
Trichlorofluoromethane	< 7.0	7.0	ug/L	2+4-Chlorotoluene
1,1-Dichloroethene	< 7.0	7.0	ug/L	tert-Butylbenzene
Methylene Chloride	< 7.0	7.0	ug/L	1,2,4-Trimethylbenzene
trans-1,2-Dichloroethene	< 7.0	7.0	ug/L	sec-Butylbenzene
1,1-Dichloroethane	< 7.0	7.0	ug/L	p-Isopropyltoluene
2,2-Dichloropropane	< 7.0	7.0	ug/L	1,3-Dichlorobenzene
cis-1,2-Dichloroethene	< 7.0	7.0	ug/L	1,4-Dichlorobenzene
Chloroform	< 7.0	7.0	ug/L	n-Butylbenzene
Bromochloromethane	< 7.0	7.0	ug/L	1,2-Dichlorobenzene
1,1,1-Trichloroethane	< 7.0	7.0	ug/L	1,2-Dibromo-3-chloropropane
1,1-Dichloropropene	< 7.0	7.0	ug/L	1,2,4-Trichlorobenzene
1,2-Dichloroethane	< 7.0	7.0	ug/L	Hexachlorobutadiene
Carbon Tetrachloride	< 7.0	7.0	ug/L	Naphthalene
Benzene	300	7.0	ug/L	1,2,3-Trichlorobenzene
Trichloroethene	< 7.0	7.0	ug/L	.,_,55
1,2-Dichloropropane	< 7.0	7.0	ug/L	1,2-Dichloroethane-d4 (Surr)
Bromodichloromethane	< 7.0	7.0	ug/L	Toluene-d8 (Surr)
Dibromomethane	< 7.0	7.0	ug/L	4-Bromofluorobenzene (Surr)
cis-1,3-Dichloropropene	< 7.0	7.0	ug/L	,
Toluene	150	7.0	ug/L	
trans-1,3-Dichloropropene	< 7.0	7.0	ug/L	
1,1,2-Trichloroethane	< 7.0	7.0	ug/L	
1,3-Dichloropropane	< 7.0	7.0	ug/L	
Tetrachloroethene	< 7.0	7.0	ug/L	
Dibromochloromethane	< 7.0	7.0	ug/L	
1,2-Dibromoethane	< 7.0	7.0	ug/L	

1)	MRL = Method reporting limit
2)	MRL raised due to interference

Approved By: 2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Joel Kiff



**MRL** 

0.50

0.50

0.50

1.0

0.50

0.50

0.50

0.50

0.50

0.50

0.50

0.50

0.50

1.0

0.50

0.50

0.50

0.50

0.50

0.50

0.50

0.50

0.50

0.50

0.50

0.50

0.50

Units

ug/L

% Recovery% Recovery

Date: 2/28/2008

Sample: MW-2

Project Name: Palace Garage 14336 Washington San Leandro

Project Number: Lab Number: 61198-02 Date Analyzed: 2/27/2008

Matrix : Water Sample Date :2/21/2008 Analysis Method: EPA 8260B

Parameter	Measur Value	ed 1 MRL	Units	Parameter	Measur Value	ed N
TPH as Gasoline	710	50	ug/L	Chlorobenzene	< 0.50	0
				1,1,1,2-Tetrachloroethane	< 0.50	0
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	Ethylbenzene	6.2	0
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	P,M-Xylene	1.1	1
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	O-Xylene	< 0.50	0
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	Styrene	< 0.50	0
Tert-Butanol	< 5.0	5.0	ug/L	Isopropyl benzene	17	0
				Bromoform	< 0.50	0
Dichlorodifluoromethane	< 0.50	0.50	ug/L	1,1,2,2-Tetrachloroethane	< 0.50	0
Chloromethane	< 0.50	0.50	ug/L	1,2,3-Trichloropropane	< 0.50	0
Vinyl Chloride	< 0.50	0.50	ug/L	n-Propylbenzene	28	0
Bromomethane	< 20	20	ug/L	Bromobenzene	< 0.50	0
Chloroethane	< 0.50	0.50	ug/L	1,3,5-Trimethylbenzene	< 0.50	0
Trichlorofluoromethane	< 0.50	0.50	ug/L	2+4-Chlorotoluene	< 1.0	1
1,1-Dichloroethene	< 0.50	0.50	ug/L	tert-Butylbenzene	< 0.50	0
Methylene Chloride	< 5.0	5.0	ug/L	1,2,4-Trimethylbenzene	< 0.50	0
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L	sec-Butylbenzene	1.5	0
1,1-Dichloroethane	< 0.50	0.50	ug/L	p-Isopropyltoluene	< 0.50	0
2,2-Dichloropropane	< 0.50	0.50	ug/L	1,3-Dichlorobenzene	< 0.50	0
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L	1,4-Dichlorobenzene	< 0.50	0
Chloroform	< 0.50	0.50	ug/L	n-Butylbenzene	1.0	0
Bromochloromethane	< 0.50	0.50	ug/L	1,2-Dichlorobenzene	< 0.50	0
1,1,1-Trichloroethane	< 0.50	0.50	ug/L	1,2-Dibromo-3-chloropropane	< 0.50	0
1,1-Dichloropropene	< 0.50	0.50	ug/L	1,2,4-Trichlorobenzene	< 0.50	0
1,2-Dichloroethane	< 0.50	0.50	ug/L	Hexachlorobutadiene	< 0.50	0
Carbon Tetrachloride	< 0.50	0.50	ug/L	Naphthalene	10	0
Benzene	23	0.50	ug/L	1,2,3-Trichlorobenzene	< 0.50	0
Trichloroethene	< 0.50	0.50	ug/L			
1,2-Dichloropropane	< 0.50	0.50	ug/L	1,2-Dichloroethane-d4 (Surr)	99.2	
Bromodichloromethane	< 0.50	0.50	ug/L	Toluene-d8 (Surr)	99.1	
Dibromomethane	< 0.50	0.50	ug/L	4-Bromofluorobenzene (Surr)	101	
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L			
Toluene	< 0.50	0.50	ug/L			
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L			
1,1,2-Trichloroethane	< 0.50	0.50	ug/L			
1,3-Dichloropropane	< 0.50	0.50	ug/L			
Tetrachloroethene	< 0.50	0.50	ug/L			
Dibromochloromethane	< 0.50	0.50	ug/L			
1,2-Dibromoethane	< 0.50	0.50	ug/L			

1) MRL = Method reporting limit

2) MRL raised due to interference

Approved By:





Date: 2/28/2008

Sample: MW-4

Project Name: Palace Garage 14336 Washington San Leandro

Project Number: Lab Number: 61198-03 Date Analyzed: 2/27/2008

Matrix : Water Sample Date :2/21/2008 Analysis Method: EPA 8260B

Parameter	Measur Value	ed 1 MRL	Units	Parameter	Measure Value	ed 1 MRL	Units
TPH as Gasoline	< 50	50	ug/L	Chlorobenzene	< 0.50	0.50	ug/L
			3	1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	Ethylbenzene	< 0.50	0.50	ug/L
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	P,M-Xylene	< 1.0	1.0	ug/L
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	O-Xylene	< 0.50	0.50	ug/L
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	Styrene	< 0.50	0.50	ug/L
Tert-Butanol	< 5.0	5.0	ug/L	Isopropyl benzene	< 0.50	0.50	ug/L
				Bromoform	< 0.50	0.50	ug/L
Dichlorodifluoromethane	< 0.50	0.50	ug/L	1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L
Chloromethane	< 0.50	0.50	ug/L	1,2,3-Trichloropropane	< 0.50	0.50	ug/L
Vinyl Chloride	< 0.50	0.50	ug/L	n-Propylbenzene	< 0.50	0.50	ug/L
Bromomethane	< 20	20	ug/L	Bromobenzene	< 0.50	0.50	ug/L
Chloroethane	< 0.50	0.50	ug/L	1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L
Trichlorofluoromethane	< 0.50	0.50	ug/L	2+4-Chlorotoluene	< 1.0	1.0	ug/L
1,1-Dichloroethene	< 0.50	0.50	ug/L	tert-Butylbenzene	< 0.50	0.50	ug/L
Methylene Chloride	< 5.0	5.0	ug/L	1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L	sec-Butylbenzene	< 0.50	0.50	ug/L
1,1-Dichloroethane	< 0.50	0.50	ug/L	p-Isopropyltoluene	< 0.50	0.50	ug/L
2,2-Dichloropropane	< 0.50	0.50	ug/L	1,3-Dichlorobenzene	< 0.50	0.50	ug/L
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L	1,4-Dichlorobenzene	< 0.50	0.50	ug/L
Chloroform	< 0.50	0.50	ug/L	n-Butylbenzene	< 0.50	0.50	ug/L
Bromochloromethane	< 0.50	0.50	ug/L	1,2-Dichlorobenzene	< 0.50	0.50	ug/L
1,1,1-Trichloroethane	< 0.50	0.50	ug/L	1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L
1,1-Dichloropropene	< 0.50	0.50	ug/L	1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L
1,2-Dichloroethane	< 0.50	0.50	ug/L	Hexachlorobutadiene	< 0.50	0.50	ug/L
Carbon Tetrachloride	< 0.50	0.50	ug/L	Naphthalene	< 0.50	0.50	ug/L
Benzene	< 0.50	0.50	ug/L	1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L
Trichloroethene	< 0.50	0.50	ug/L	1,2,0	0.00	0.00	~ <del>9</del> ~=
1,2-Dichloropropane	< 0.50	0.50	ug/L	1,2-Dichloroethane-d4 (Surr)	100		% Recovery
Bromodichloromethane	< 0.50	0.50	ug/L	Toluene-d8 (Surr)	99.2		% Recovery
Dibromomethane	< 0.50	0.50	ug/L	4-Bromofluorobenzene (Surr)	102		% Recovery
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L	, , ,			•
Toluene	< 0.50	0.50	ug/L				
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L				
1,1,2-Trichloroethane	< 0.50	0.50	ug/L				
1,3-Dichloropropane	< 0.50	0.50	ug/L				
Tetrachloroethene	< 0.50	0.50	ug/L				
Dibromochloromethane	< 0.50	0.50	ug/L				
1,2-Dibromoethane	< 0.50	0.50	ug/L				

1) MRL = Method reporting limit

2) MRL raised due to interference

Approved By:

Joel Kiff

Date: 2/28/2008

# QC Report : Method Blank Data

Project Name: Palace Garage 14336 Washington San Leandro

Project Number :

Parameter	Measured Value	Method Reportir Limit	ng Units	Analysis Method	Date Analyzed	Parameter	Measured Value	Method Reporti Limit		Analysis Method	Date Analyzed
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	2/26/2008	Dibromochloromethane	< 0.50	0.50	ug/L	EPA 8260B	2/26/2008
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	2/26/2008	1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	2/26/2008
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	2/26/2008	Chlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	2/26/2008
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	2/26/2008	1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L	EPA 8260B	2/26/2008
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	2/26/2008	Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	2/26/2008
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	2/26/2008	P,M-Xylene	< 1.0	1.0	ug/L	EPA 8260B	2/26/2008
Dichlorodifluoromethane	< 0.50	0.50	ug/L	EPA 8260B	2/26/2008	O-Xylene	< 0.50	0.50	ug/L	EPA 8260B	2/26/2008
Chloromethane	< 0.50	0.50	ug/L	EPA 8260B	2/26/2008	Styrene	< 0.50	0.50	ug/L	EPA 8260B	2/26/2008
Vinyl Chloride	< 0.50	0.50	ug/L	EPA 8260B	2/26/2008	Isopropyl benzene	< 0.50	0.50	ug/L	EPA 8260B	2/26/2008
Bromomethane	< 20	20	ug/L	EPA 8260B	2/26/2008	Bromoform	< 0.50	0.50	ug/L	EPA 8260B	2/26/2008
Chloroethane	< 0.50	0.50	ug/L	EPA 8260B	2/26/2008	1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L	EPA 8260B	2/26/2008
Trichlorofluoromethane	< 0.50	0.50	ug/L	EPA 8260B	2/26/2008	1,2,3-Trichloropropane	< 0.50	0.50	ug/L	EPA 8260B	2/26/2008
1,1-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	2/26/2008	n-Propylbenzene	< 0.50	0.50	ug/L	EPA 8260B	2/26/2008
Methylene Chloride	< 5.0	5.0	ug/L	EPA 8260B	2/26/2008	Bromobenzene	< 0.50	0.50	ug/L	EPA 8260B	2/26/2008
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	2/26/2008	1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	2/26/2008
1,1-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	2/26/2008	2+4-Chlorotoluene	< 1.0	1.0	ug/L	EPA 8260B	2/26/2008
2,2-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	2/26/2008	tert-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	2/26/2008
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	2/26/2008	1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	2/26/2008
Chloroform	< 0.50	0.50	ug/L	EPA 8260B	2/26/2008	sec-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	2/26/2008
Bromochloromethane	< 0.50	0.50	ug/L	EPA 8260B	2/26/2008	p-Isopropyltoluene	< 0.50	0.50	ug/L	EPA 8260B	2/26/2008
1,1,1-Trichloroethane	< 0.50	0.50	ug/L	EPA 8260B	2/26/2008	1,3-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	2/26/2008
1,1-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	2/26/2008	1,4-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	2/26/2008
1.2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	2/26/2008	n-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	2/26/2008
Carbon Tetrachloride	< 0.50	0.50	ug/L	EPA 8260B	2/26/2008	1,2-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	2/26/2008
Benzene	< 0.50	0.50	ug/L	EPA 8260B	2/26/2008	1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L	EPA 8260B	2/26/2008
Trichloroethene	< 0.50	0.50	ug/L	EPA 8260B	2/26/2008	1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	2/26/2008
1,2-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	2/26/2008	Hexachlorobutadiene	< 0.50	0.50	ug/L	EPA 8260B	2/26/2008
Bromodichloromethane	< 0.50	0.50	ug/L	EPA 8260B	2/26/2008	Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	2/26/2008
Dibromomethane	< 0.50	0.50	ug/L	EPA 8260B	2/26/2008	1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	2/26/2008
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	2/26/2008	1,2-Dichloroethane-d4 (Surr)	100		%	EPA 8260B	2/26/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	2/26/2008	Toluene - d8 (Surr)	96.3		%	EPA 8260B	2/26/2008
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	2/26/2008	4-Bromofluorobenzene (Surr)	102		%	EPA 8260B	2/26/2008
1,1,2-Trichloroethane	< 0.50	0.50	ug/L	EPA 8260B	2/26/2008						
1,3-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	2/26/2008						
Tetrachloroethene	< 0.50	0.50	ug/L	EPA 8260B	2/26/2008						

Approved By:

Joel Kiff

Date: 2/28/2008

#### **QC Report : Method Blank Data**

Project Name: Palace Garage 14336 Washington San Leandro

Project Number:

	Measured	- 1		Analysis	Date		Measured	Method Reportir		Analysis	Date
<u>Parameter</u>	Value	Limit	Units	Method	Analyzed	<u>Parameter</u>	Value	Limit	Units	Method	Analyzed
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	2/27/2008	Dibromochloromethane	< 0.50	0.50	ug/L	EPA 8260B	2/27/2008
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	2/27/2008	1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	2/27/2008
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	2/27/2008	Chlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	2/27/2008
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	2/27/2008	1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L	EPA 8260B	2/27/2008
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	2/27/2008	Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	2/27/2008
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	2/27/2008	P,M-Xylene	< 1.0	1.0	ug/L	EPA 8260B	2/27/2008
Dichlorodifluoromethane	< 0.50	0.50	ug/L	EPA 8260B	2/27/2008	O-Xylene	< 0.50	0.50	ug/L	EPA 8260B	2/27/2008
Chloromethane	< 0.50	0.50	ug/L	EPA 8260B	2/27/2008	Styrene	< 0.50	0.50	ug/L	EPA 8260B	2/27/2008
Vinyl Chloride	< 0.50	0.50	ug/L	EPA 8260B	2/27/2008	Isopropyl benzene	< 0.50	0.50	ug/L	EPA 8260B	2/27/2008
Bromomethane	< 20	20	ug/L	EPA 8260B	2/27/2008	Bromoform	< 0.50	0.50	ug/L	EPA 8260B	2/27/2008
Chloroethane	< 0.50	0.50	ug/L	EPA 8260B	2/27/2008	1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L	EPA 8260B	2/27/2008
Trichlorofluoromethane	< 0.50	0.50	ug/L	EPA 8260B	2/27/2008	1,2,3-Trichloropropane	< 0.50	0.50	ug/L	EPA 8260B	2/27/2008
1,1-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	2/27/2008	n-Propylbenzene	< 0.50	0.50	ug/L	EPA 8260B	2/27/2008
Methylene Chloride	< 5.0	5.0	ug/L	EPA 8260B	2/27/2008	Bromobenzene	< 0.50	0.50	ug/L	EPA 8260B	2/27/2008
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	2/27/2008	1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	2/27/2008
1,1-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	2/27/2008	2+4-Chlorotoluene	< 1.0	1.0	ug/L	EPA 8260B	2/27/2008
2,2-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	2/27/2008	tert-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	2/27/2008
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	2/27/2008	1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	2/27/2008
Chloroform	< 0.50	0.50	ug/L	EPA 8260B	2/27/2008	sec-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	2/27/2008
Bromochloromethane	< 0.50	0.50	ug/L	EPA 8260B	2/27/2008	p-Isopropyltoluene	< 0.50	0.50	ug/L	EPA 8260B	2/27/2008
1,1,1-Trichloroethane	< 0.50	0.50	ug/L	EPA 8260B	2/27/2008	1,3-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	2/27/2008
1,1-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	2/27/2008	1,4-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	2/27/2008
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	2/27/2008	n-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	2/27/2008
Carbon Tetrachloride	< 0.50	0.50	ug/L	EPA 8260B	2/27/2008	1,2-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	2/27/2008
Benzene	< 0.50	0.50	ug/L	EPA 8260B	2/27/2008	1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L	EPA 8260B	2/27/2008
Trichloroethene	< 0.50	0.50	ug/L	EPA 8260B	2/27/2008	1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	2/27/2008
1,2-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	2/27/2008	Hexachlorobutadiene	< 0.50	0.50	ug/L	EPA 8260B	2/27/2008
Bromodichloromethane	< 0.50	0.50	ug/L	EPA 8260B	2/27/2008	Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	2/27/2008
Dibromomethane	< 0.50	0.50	ug/L	EPA 8260B	2/27/2008	1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	2/27/2008
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	2/27/2008	1,2-Dichloroethane-d4 (Surr)	100		%	EPA 8260B	2/27/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	2/27/2008	Toluene - d8 (Surr)	98.2		%	EPA 8260B	2/27/2008
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	2/27/2008	4-Bromofluorobenzene (Surr)	101		%	EPA 8260B	2/27/2008
1,1,2-Trichloroethane	< 0.50	0.50	ug/L	EPA 8260B	2/27/2008						
1,3-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	2/27/2008						
Tetrachloroethene	< 0.50	0.50	ug/L	EPA 8260B	2/27/2008						

Approved By: Joel Kiff

Date: 2/28/2008

Project Name: Palace Garage 14336 Washington San Leandro

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Number:

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
1,1-Dichloroethane	61206-13	<0.50	40.0	40.0	41.2	40.0	ug/L	EPA 8260B	2/26/08	103	99.9	3.19	70-130	25
Benzene	61206-13	<0.50	40.0	40.0	42.1	40.9	ug/L	EPA 8260B	2/26/08	105	102	2.77	70-130	25
1,2-Dichloroethane	61206-13	<0.50	40.0	40.0	39.7	39.2	ug/L	EPA 8260B	2/26/08	99.2	98.1	1.11	70-130	25
Toluene	61206-13	<0.50	40.0	40.0	41.2	40.2	ug/L	EPA 8260B	2/26/08	103	100	2.44	70-130	25
Chlorobenzene	61206-13	<0.50	40.0	40.0	43.7	42.6	ug/L	EPA 8260B	2/26/08	109	106	2.58	70-130	25
Tert-Butanol	61206-13	<5.0	200	200	200	201	ug/L	EPA 8260B	2/26/08	99.8	100	0.687	70-130	25
Methyl-t-Butyl Ethe	r 61206-13	<0.50	40.0	40.0	41.0	40.6	ug/L	EPA 8260B	2/26/08	102	101	1.01	70-130	25
1,1-Dichloroethane	61264-21	<0.50	40.0	40.0	40.5	39.3	ug/L	EPA 8260B	2/27/08	101	98.3	3.07	70-130	25
Benzene	61264-21	<0.50	40.0	40.0	40.8	40.0	ug/L	EPA 8260B	2/27/08	102	99.9	2.01	70-130	25
1,2-Dichloroethane	61264-21	<0.50	40.0	40.0	39.9	39.1	ug/L	EPA 8260B	2/27/08	99.8	97.7	2.10	70-130	25
Toluene	61264-21	<0.50	40.0	40.0	40.9	39.8	ug/L	EPA 8260B	2/27/08	102	99.6	2.69	70-130	25
Chlorobenzene	61264-21	<0.50	40.0	40.0	42.2	41.7	ug/L	EPA 8260B	2/27/08	105	104	1.13	70-130	25
Tert-Butanol	61264-21	<5.0	200	200	199	202	ug/L	EPA 8260B	2/27/08	99.6	101	1.54	70-130	25
Methyl-t-Butyl Ethe	r 61264-21	<0.50	40.0	40.0	41.1	41.0	ug/L	EPA 8260B	2/27/08	103	102	0.306	70-130	25

Date: 2/28/2008

Project Name: Palace Garage 14336 Washington San Leandro

**QC Report : Laboratory Control Sample (LCS)** 

Project Number :

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
1,1-Dichloroethane	40.0	ug/L	EPA 8260B	2/26/08	101	70-130
Benzene	40.0	ug/L	EPA 8260B	2/26/08	105	70-130
1,2-Dichloroethane	40.0	ug/L	EPA 8260B	2/26/08	99.4	70-130
Toluene	40.0	ug/L	EPA 8260B	2/26/08	104	70-130
Chlorobenzene	40.0	ug/L	EPA 8260B	2/26/08	104	70-130
Tert-Butanol	200	ug/L	EPA 8260B	2/26/08	102	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	2/26/08	98.5	70-130
1,1-Dichloroethane	40.0	ug/L	EPA 8260B	2/27/08	103	70-130
Benzene	40.0	ug/L	EPA 8260B	2/27/08	105	70-130
1,2-Dichloroethane	40.0	ug/L	EPA 8260B	2/27/08	102	70-130
Toluene	40.0	ug/L	EPA 8260B	2/27/08	107	70-130
Chlorobenzene	40.0	ug/L	EPA 8260B	2/27/08	107	70-130
Tert-Butanol	200	ug/L	EPA 8260B	2/27/08	102	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	2/27/08	103	70-130

Approved By:

loe Kiff

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