

November 25, 2009

Mr. Mark Detterman Alameda County Environmental Health 1000 San Leandro Blvd., Suite 300 San Leandro, CA 94577 **RECEIVED**

9:21 am, Nov 30, 2009

Alameda County Environmental Health

Subject: Fourth Quarter 2009 Groundwater Monitoring Report

Palace Garage

14336 Washington Avenue San Leandro, California ACEH Case No. RO0000208

SFRWQCB LUFT Case No. 01-1133

Dear Mr. Detterman:

On behalf of Kerry & Associates, Closure Solutions, Incorporated (Closure Solutions) has prepared this *Fourth Quarter 2009 Groundwater Monitoring Report* (Report) for the Palace Garage facility (the Site), located at 14336 Washington Avenue, in San Leandro, California (Figure 1).

1.0 SITE BACKGROUND SUMMARY

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. Concentrations 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 2.

Closure Solutions conducted a Sensitive Receptor Survey to identify all water supply wells and sensitive receptors within a 2,000-foot radius of the Site. The closest water supply wells are two industrial wells approximately 450 feet northwest (cross-gradient) of the Site. The closest domestic well is approximately 1,500 feet southeast (cross-gradient) of the Site. The closest

down-gradient well is an irrigation well approximately 1,400 feet southwest of the Site. No surface water bodies were identified within a 2,000 foot radius of the Site. Results of the Sensitive Receptor Survey are presented in the *Sensitive Receptor Survey* report dated August 27, 2008.

Closure Solutions prepared and submitted a *Site Conceptual Model* (SCM) dated September 30, 2008 for the Site. The preparation of the SCM was requested by Alameda County Environmental Health (ACEH) in their letter dated September 2, 2008.

In an email dated June 12, 2009 Mr. Steve Plunkett with the ACEH approved the reduction of groundwater monitoring to a Semi-annual basis conducted in second and fourth quarters. Mr. Plunkett also approved the recommendation to eliminate the fuel oxygenates from the suite of laboratory analytes.

On October 15, 2009 Closure Solutions discussed the Site status with ACEH. Data gaps presented in the SCM and other information that ACEH would require for site closure was identified. Closure Solutions submitted the *Soil Vapor Probe and Additional Assessment Work Plan* on November 13, 2009 to address the work necessary to move the site toward closure.

2.0 WORK PERFORMED AND WORK PROPOSED

Following is a summary of work performed this quarter and work proposed for next quarter:

WORK PERFORMED THIS QUARTER:

- 1. Performed quarterly groundwater monitoring event on November 3, 2009
- 2. Submitted Soil Vapor Probe and Additional Assessment Work Plan on November 13, 2009
- 3. Prepared and submitted Fourth Quarter 2009 Groundwater Monitoring Report

WORK PROPOSED FOR NEXT QUARTER:

1. Implement Soil Vapor Probe and Additional Assessment Work Plan

3.0 DISCUSSION OF RECENT ACTIVITIES

Closure Solutions performed this quarter's groundwater monitoring and sampling event at the Site on November 3, 2009. Gauging, purging and sampling were conducted in accordance with Closure Solution's Standard Operating Procedures (included in Attachment A). The collected groundwater samples and a trip blank sample were submitted to SunStar Laboratories for laboratory analysis under Chain-of-Custody protocols. The samples were analyzed for TPHg and benzene, toluene, ethylbenzene and total xylenes (BTEX) by EPA Method 8260B.

Following is a summary of the current status of the environmental program at the site:

Current Phase of Project:	Monitoring
Groundwater Monitoring & Sampling:	Semi-Annual: MW-1 through MW-4
Is Free Product (FP) Present On-Site:	No
Current Remediation Techniques:	Natural Attenuation

Following is a summary of this quarter's field and analytical data:

Average Depth to Groundwater (in feet bgs):	15.91			
Groundwater Elevation (in feet above mean sea level)	21.06 (MW-4) to 21.61 (MW-1)			
Groundwater Gradient (direction):	Southwest			
Groundwater Gradient (magnitude):	0.003 ft/ft			
TPHg detected concentrations:	$75 \mu g/L (MW-1)$ to $220 \mu g/L (MW-2)$			
Benzene detected concentrations:	$6.0 \mu\text{g/L} (\text{MW-1}) \text{ to } 22 \mu\text{g/L} (\text{MW-2})$			
Toluene detected concentrations:	$0.55~\mu g/L~(MW-2)$ to $0.70~\mu g/L~(MW-1)$			
Ethyl-benzene detected concentrations:	9.4 μg/L (MW-2) to 12 μg/L (MW-1)			
Xylenes detected concentrations:	5.05 μg/L (MW-2) to 40.5 μg/L (MW-1)			

Laboratory procedures, chain of custody records, and the certified analytical reports are included as Attachment B. Groundwater elevation and analytical data are summarized on Tables 1 and 2.

Purge water generated during the monitoring and sampling event was disposed of at the licensed Rio Vista, California hazardous waste treatment facility operated by Instrat, Inc.

4.0 CONCLUSIONS AND RECOMMENDATIONS

In accordance with directive received by the ACEH Closure Solutions will continue the Site groundwater monitoring and sampling on a semi-annual basis during the second and fourth quarters. Upon receipt of ACEH approval Closure Solutions will begin activities necessary to implement the *Soil Vapor Probe and Additional Assessment Work Plan*.

We appreciate the opportunity to present this document and trust that it meets with your approval. If you have any questions or concerns, please contact Kathleen Waldo at (916) 760-7025 or at kwaldo@closuresolutions.com.

Sincerely,

Closure Solutions, Inc.

Roger Hoffmore, P.G.

Senior Geologist



Figure 1 Site Location Map

Figure 2 Groundwater Monitoring & Sampling Results – Groundwater

Contour Map – November 3, 2009

Table 1 Groundwater Elevation and Analytical Data

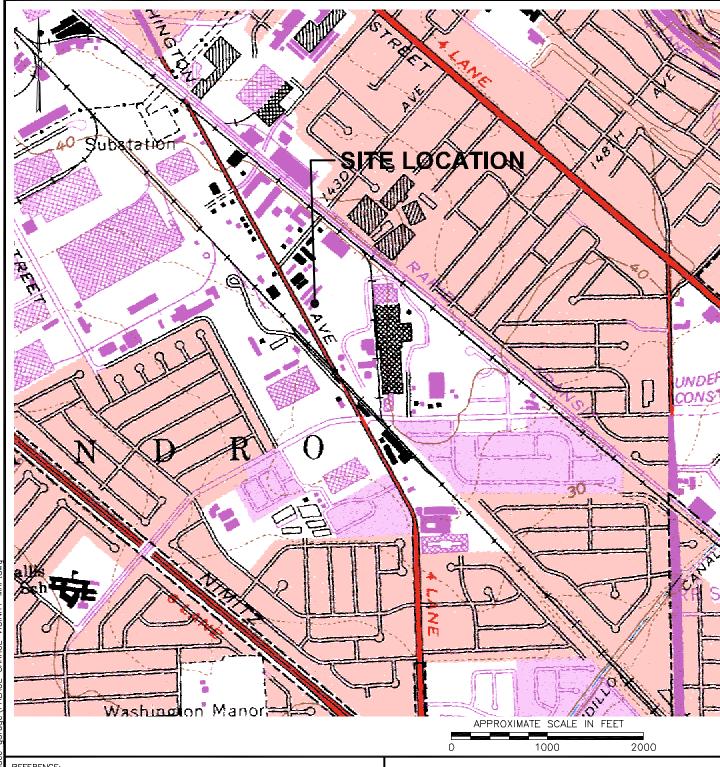
Table 2 Fuel Oxygenate & Lead Scavenger Analytical Data

Attachment A Field Procedures and Field Data Sheets

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

Records

cc: Mr. Jeff Kerry, Kerry & Associates



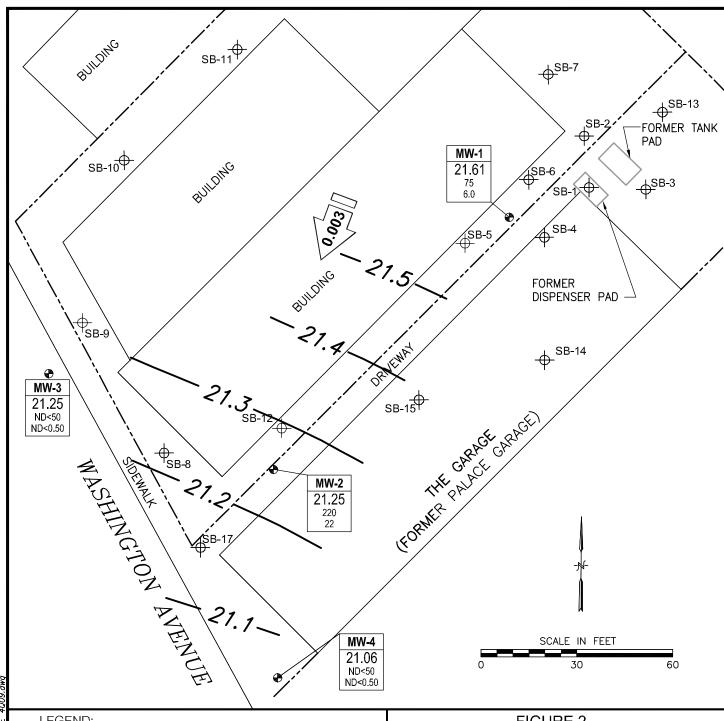
REFERENCE:
USGS 7.5 MIN QUAD MAP TITLED:SAN LEANDRO, CALIFORNIA DATED: 1959 REV: 1980

FIGURE 1 SITE LOCATION MAP

PALACE GARAGE 14336 WASHINGTON AVENUE SAN LEANDRO, CALIFORNIA



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



LEGEND:

GROUNDWATER MONITORING WELL



SOIL BORING



- WELL DESIGNATION GROUNDWATER ELEVATION (FT ABOVE MSL)

TPHg AND BENZENE CONCENTRATIONS (µg/L)

NOT DETECTED AT OR ABOVE LABORATORY REPORTING LIMITS



GROUNDWATER ELEVATION CONTOURS (FEET ABOVE MEAN SEA LEVEL [MSL])



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GROUNDWATER FLOW DIRECTION AND GRADIENT (FT/FT)

NOTES:

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

FIGURE 2

FOURTH QUARTER 2009 GROUNDWATER MONITORING & SAMPLING RESULTS

GROUNDWATER CONTOUR MAP NOVEMBER 3, 2009

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 Sampled	Casing Elevation (Feet MSL)	Depth To Water (Feet)	Groundwater Elevation (Feet)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	LAB
MW-1	12/31/02	37.59	13.62	23.97	48,000	1,030	2,380	1,690	9,220	
	9/22/06		13.33	24.26	44,000	870	2,200	720	9,700	
	12/21/06		13.94	23.65	17,000	240	980	180	5,000	
	3/29/07		13.71	23.88	2,000	30	85	23	550	
	9/27/07		15.53	22.06	540	14	3.9	44	87	KIFF
2/2 5/ 8/	12/20/07		15.69	21.90	280	4.3	1.3	15	37	KIFF
	2/21/08		13.72	23.87	19,000	300	150	1,100	4,900	KIFF
	5/15/08		14.60	22.99	7,200	140	50	370	2,040	KIFF
	8/7/08		15.62	21.97	820	13	3.1	44	100	KIFF
	11/13/08		16.14	21.45	670	10	2.1	31	110	KIFF
	6/19/09		15.15	22.44	1,490	85.8	13.4	164	310	Accutes
	11/3/09		15.98	21.61	75	6.0	0.70	12	40.5	SunSta
MW-2	12/31/02	37.12	13.38	23.74	1,670	1,030	11.00	23	16.4	
	9/22/06		13.25	23.87	1,800	53	1.40	14	7.5	
	12/21/06		13.89	23.23						
	3/29/07		13.57	23.55	2,100	51	1.30		4.5	
	9/27/07		15-37	21.75	1,600	58	0.99	12	3.7	KIFF
	12/20/07		15.40	21.72	1,500	63	1.1	16	4.9	KIFF
	2/21/08		13.60	23.52	710	23	ND<0.50	6.2	1.1	KIFF
	5/15/08		14.47	22.65	1,600	84	1.4	28	9.8	KIFF
	8/7/08		15.48	21.64	2,100	86	1.6	22	9.0	KIFF
	11/13/08		15.99	21.13	2,300	46	1.1	15	4.5	KIFF
	6/19/09		15.03	22.09	931	60.1	ND<2.0	30	3.1	Accutes
	11/3/09		15.87	21.25	220	22	0.55	9.4	5.05	SunSta

Table 1
Groundwater Elevation and Analytical Data

Palace Garage 14336 Washington Avenue San Leandro, California

Well ID	Date Sampled	Casing Elevation (Feet MSL)	Depth To Water (Feet)	Groundwater Elevation (Feet)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	LAB
MW-3	12/31/02	37.01	13.29	23.72	<50	<0.5	<0.5	<0.5	<1.0	
	9/22/06		13.14	23.87	< 50	< 0.5	< 0.5	< 0.5	<1.5	
	12/21/06									
	3/29/07		13.47	23.54	< 50	< 0.5	< 0.5	< 0.5	<1.5	
	9/27/07		15.29	21.72	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	KIFF
	12/20/07		15.30	21.71	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	KIFF
	2/21/08									
	5/15/08		14.35	22.66	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	KIFF
	8/7/08		15.39	21.62	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	KIFF
	11/13/08		15.90	21.11	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	KIFF
	6/19/09		14.94	22.07	ND<50	ND<1.0	ND<1.0	ND<1.0	ND<2.0	Accutes
	11/3/09		15.76	21.25	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	SunStar
MW-4	12/31/02	37.09	13.45	23.64	<50	<0.5	<0.5	<0.5	<1.0	
	9/22/06		13.40	23.69	< 50	< 0.5	< 0.5	< 0.5	<1.5	
	12/21/06		13.86	23.23	< 50	< 0.5	< 0.5	< 0.5	<1.5	
	3/29/07		13.69	23.40	< 50	< 0.5	< 0.5	< 0.5	<1.5	
	9/27/07		15.48	21.61	ND<50	1.5	ND<0.50	0.71	0.74	KIFF
	12/20/07		15.28	21.81	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	KIFF
	2/21/08		13.56	23.53	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	KIFF
	5/15/08		14.58	22.51	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	KIFF
	8/7/08		15.57	21.52	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	KIFF
	11/13/08		16.09	21.00	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	KIFF
	6/19/09		15.15	21.94	ND<50	ND<1.0	ND<1.0	ND<1.0	ND<2.0	Accutes
	11/3/09		16.03	21.06	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	SunStar

Table 1 Groundwater Elevation and Analytical Data

Palace Garage 14336 Washington Avenue San Leandro, California

ID Sampled Elevation Water Elevation $(\mu g/L)$	Well ID		B T $(\mu g/L)$ $(\mu g/L)$	E (µg/L)	X LAF (μg/L)	,
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ABBREVIATIONS:

TPHg	Total Petroleum Hydrocarbons as Gasoline
В	Benzene
T	Toluene
E	Ethylbenzene
X	Total xylenes
μg/L	Micrograms per liter (parts per billion [ppb])
	Not analyzed/measured/applicable
ND<	Not detected at or above specified laboratory reporting limit
MSL	Mean Sea Level
Accutest	Accutest Laboratories, Santa Clara, Ca
KIFF	Kiff Analytical LLC, Davis, Ca
SunStar	SunStar Laboratoies, Inc., Lake Forest, Ca
Bold	Detection during latest sampling event

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 ID	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)
MW-1	12/31/02	< 0.5						
	9/22/06	<1.0						
	12/21/06	3.9						
	3/29/07	<1.0						
	9/27/07	1.6	ND<5.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	12/21/07	1.5	ND<5.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	2/21/08	ND<7.0	ND<40	ND<7.0	ND<7.0	ND<7.0	ND<7.0	ND<7.0
	5/15/08	ND<2.5	ND<15	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5
	8/7/08	1.0	ND<5.0	ND<0.50	ND<0.50	ND<0.50		
	11/13/08	1.1	ND<5.0	ND<0.50	ND<0.50	ND<0.50		
MW-2	12/31/02	<0.5						
	9/22/06	<1.0						
	12/21/06							
	3/29/07	1.10						
	9/27/07	0.89	ND<5.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	12/20/07	0.95	ND<5.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	2/21/08	ND<0.50	ND<5.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	5/15/08	ND<0.90	ND<5.0	ND<0.90	ND<0.90	ND<0.90	ND<0.90	ND<0.90
	8/7/08	0.59	ND<5.0	ND<0.90	ND<0.90	ND<0.90		
	11/13/08	0.53	ND<5.0	ND<0.50	ND<0.50	ND<0.50		

Table 2
Fuel Oxygenate & Lead Scavenger Analytical Data

Palace Garage 14336 Washington Avenue San Leandro, California

Well ID	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)
MW-3	12/31/02	<0.5						
	9/22/06	<1.0						
	12/21/06							
	3/29/07	<1.0						
	9/27/07	ND<0.50	ND<5.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	12/20/07	ND<0.50	ND<5.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	2/21/08							
	5/15/08	ND<0.50	ND<5.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	8/7/08	ND<0.50	ND<5.0	ND<0.50	ND<0.50	ND<0.50		
	11/13/08	ND<0.50	ND<5.0	ND<0.50	ND<0.50	ND<0.50		
MW-4	12/31/02	<0.5						
	9/22/06	<1.0						
	12/21/06	<1.0						
	3/29/07	<1.0						
	9/27/07	ND<0.50	ND<5.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	12/20/07	ND<0.50	ND<5.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	2/21/08	ND<0.50	ND<5.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	5/15/08	ND<0.50	ND<5.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	8/7/08	ND<0.50	ND<5.0	ND<0.50	ND<0.50	ND<0.50		
	11/13/08	ND<0.50	ND<5.0	ND<0.50	ND<0.50	ND<0.50		

Table 2 Fuel Oxygenate & Lead Scavenger Analytical Data

Palace Garage 14336 Washington Avenue San Leandro, California

Well	Date Sampled	MTBE	TBA	DIPE	ETBE	TAME	1,2-DCA	EDB
ID	•	$(\mu g/L)$	(µg/L)	$(\mu g/L)$				

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
Accutest	Accutest Laboratories, Santa Clara, Ca
μg/L	Micrograms per liter (parts per billion [ppb])
	Not analyzed/measured/applicable
ND<	Not detected at or above specified laboratory reporting limit
Bold	Detection during latest sampling event

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



Standard Operating Procedures: Basic Gauge, Purge, and Sample.

Routine Water Level Measurements

- 1. Confirm that water or debris will not enter the well box upon removal of the well box lid.
- **2.** Remove the cover using the appropriate tools.
- **3.** Inspect the wellhead for deficiencies and document accordingly.
- **4.** Confirm that water or debris will not enter the well upon removal of the well cap.
- **5.** Unlock and remove the well cap lock (if applicable). If lock is not functional cut it off.
- **6.** Loosen and remove the well cap. CAUTION: DO NOT PLACE YOUR FACE OR HEAD DIRECTLY OVER WELLHEAD WHEN REMOVING THE WELL CAP. WELL CAP MAY BE UNDER PRESSURE AND/OR MAY RELEASE ACCUMULATED AND POTENTIALLY HARMFULL VAPORS.
- 7. Verify and identify survey point as written on S.O.W.

TOC: If survey point is listed as Top of Casing (TOC), look for the exact survey point in the form of a notch or mark on the top of the casing. If no mark is present, use the north side of the casing as the measuring point.

TOB: If survey point is listed as Top of Box (TOB), the measuring point will be established manually. Place the inverted well box lid halfway across the well box opening and directly over the casing. The lower edge of the inverted cover directly over the casing will be the measuring point.

- **8.** Put new Nitrile gloves on your hands.
- **9.** Slowly lower the decontaminated water level meter probe into the well until it signals contact with water with a tone and/or flashing a light.
- 10. Gently raise the probe tip slightly above the water and hold it there. Wait momentarily to see if the meter emits a tone, signaling rising water in the casing. Gently lower the probe tip slightly below the water. Wait momentarily to see if the meter stops emitting a tone, signaling dropping water in the casing. Continue process until water level stabilizes indicating that the well has equilibrated.
- 11. While holding the probe at first contact with water and the tape against the measuring point, note depth. Repeat twice to verify accuracy. Write down measurement on well gauging sheet under depth to water column.
- **12.** Recover probe, replace and tighten well cap, replace lock (if applicable), replace well box cover and tighten hardware (if applicable).

Purging With a Bailer (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 a loop at end cord.
- **4.** Gently raise full bailer out of well and clear of wellhead. 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 purge water, empty the remainder of the purge water 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.

Purging With a Fixed Speed Electric Submersible Pump

- 1. Position thoroughly decontaminated pump over the top of the well.
- **2.** Gently unreel and lower the pump to the well bottom.
- **3.** Raise the pump to client specified location within screened interval. If no direction is given the pump inlet will be placed 5 feet above the bottom of the well.
- **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.** Upon completion of purging, gently recover the pump and secure the reel.

Sampling with a Bailer (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 wellhead. 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 (see following steps). Return to the well as needed for additional sample material.
- **12.** 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 the process.
- **13.** 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.
- 14. 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. Gravity feed water 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.

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

FIELD DATA SHEET-DEPTH TO WATER DATA

		S	ITE INFORM	ATION		
Site Information		9-1				
Palace Garage Project Name		11/3/09 Date	Project Number			
14336 Washingtor	n Ave.	San Leandro City	CA State			
Water Level Equipme			Kevin Dolan	-		
X Electronic Indicato			4Q09 - QMS Even	t		
Other (specify)			20 2101			
		DEF	TH TO WAT	ER DATA		
DTW Order	Well ID	Time (24:00)	DTW (toc)	Depth to SPH- To me pepth	SPH Thickness (toc)	Notes (describe SPH):
3	MW-1	1317	1598	23,40		
Ч	NW-2	1324	15,87	23.64		
2	MW-3	(31)	15.76	23.09	-	
	MWY	1306	16,03	21.95		3/4" well
tip.	7			-	374-114	
			12-			
				,		
				1		
		-				
				4 - 2 - 0 1		
				11		
						\$300

Project Na	me/No.:	Pa	lace Garage -	San Lear	ndro, CA		Date:	11-3-09				
Sample No	o.:	Mw-1										
Samplers	Name:		Kevin D	olan								
Purge Equ	Bailer: Disp 12 v. Pump Bladder Pu	mp	С			Sample Equipment: Disposable Bailer Whaler # Bladder Pump						
Analusas I	SS Monsoo		mmh.l.				Muse	_ Submersible Pump				
TPH-G	BTEX	circle all that a	ppiy):				Number and Types of Bottle Used: 3 Voa's w/ hcl					
TFTI-O	BILA		74				3	VOA'S W/ TICI				
Well Numb		MW 1	TOC			٧	Vell Diameter	r: with Casing 2" = (0.16 (
Well Depth		23,40	BGS or TOC					4" = (0.65 (
Height W-0		7,42	feet (well dep	th - denth	to water)			5" = (1.02 (The state of the s			
Volume in		1.15/	gallons (casin					6" = (1.47 (
Gallons to		3,56	gallons (volur	2	X fieight)			8" = (2.61 (
Lab:	SunStar	2/3/0	galloris (volui	(ie X 3)		Transpo	rtation:	Golden State Ove				
Time (24 hr.)	Volume Purged	Temperature (°C)	Conductivity (ms/cm)	D.O. (ppm)	рН	TDS (ppm)		ty: Color - Fines	Micropurge Paramaters Stabilized			
	(Gallons)	(0)	(IIIS/CIII)	(ррііі)		(ppiii)			Stabilized			
1430	STAG	T	W/S									
1431	1125	21.3	789	2,43	7,43	546	1000	lear, min -				
1432	2.50	19.5	780	205	7,45	530						
1433	3,75	19.0	791	1.78	7,35	545	W	VV				
SIR	! Purge	Complete					,					
	0											
						J			1			
	1 /								1			
		7										
			ait for 80% we									
		Calculate	depth to water				ume recovery					
	Ori	ginal Height of Wate			orginal well v		23,40= De	epth to water 7,41	*			
Time: 1440	1st measured	depth to water,	(63_feet belo			Is well with	nin 80% of origina	al well casing volume: Yes				
Time:	1st measured	depth to water,	feet belo	ow TOC.		Is well with	nin 80% of origina	al well casing volume: Yes	No			
				Sam	ple Well							
Time:	1993		Sample ID:	WA	1-1		Depth	n: 16x63				
Comments	FA	INT HE O	don - NO	Shelv	1							
		-										
Well Condi	tion:	apal-										
				-			Closure S	olutions INC - OMS	FDS			

Project Na	me/No.:	Pa	lace Garage	San Lear	ndro, CA		Date:	11-3-09	
Sample No	o.:	Mw-2							
Samplers			Kevin L	Dolan					
Purge Equ		mp	c				Sample Equi	pment: _ Disposable Bailer _ Whaler # Bladder Pump _ Submersible Pump	
Analyses I		circle all that a	pply):				Numb	er and Types of Bo	
TPH-G	BTEX						and the second second second	oa's w/ hcl	
Well Numb Depth to W Well Depth Height W-O Volume in Gallons to Lab:	Vater: n: Column: Well:	MW-2 15,87 23,64 7,77 1,24 3,75	TOC BGS or TOC feet (well dep gallons (casir gallons (volur	ng volume		Transpo	Vell Diameter:	with Casing 1 2" = (0.16 G 4" = (0.65 G 5" = (1.02 G 6" = (1.47 G 8" = (2.61 G	Gallon/Feet) Gallon/Feet) Gallon/Feet) Gallon/Feet) Gallon/Feet)
Time (24 hr.)	Volume Purged (Gallons)	Temperature (°C)	Conductivity (ms/cm)	D.O. (ppm)	рН	TDS (ppm)	Turbidity	y: Color - Fines	Micropurge Paramaters Stabilized
1449	STAR	27 -	w/5						
1450	1,25	20,2	891	1192	7.64	592	las al	ear, min	
1451	2,50	19.9	897	0	7.49	563	,	active miles	
1453	4,-	19.7	896	2,43	700			V	
				2193	7.52	560		V	
STOP.	Purg	Comple	te						
			/						1-1
					100				
			ait for 80% we						
		Calculate	depth to wate		orginal well vo		ime recovery:		
	Orig	ginal Height of Water		$7 \times 0.8 =$		Vell Depth)	2364 = Dep	th to water 17,42	
Time: 1507 Time:	1st measured	depth to water, depth to water, depth to water,	feet beld feet beld feet beld	ow TOC.	ole Well	Is well with	in 80% of original	well casing volume: Yes well casing volume: Yes well casing volume: Yes	No No No
Time:	1505		Sample ID:	1	110-2		Depth:	15.50	
Comments:	Moder	rale Ac	000R-	NO 5	Sheen				
Well Condit	ion:								
							Closure Sol	utions INC QMS	FDS

Project Na	me/No.:	Pa	lace Garage -	San Lear	dro, CA		Date:	11-3-09	
Sample No		MW-3							
Samplers I	Name:		Kevin L	olan					
Purge Equ	Bailer: Dis 12 v. Pump Bladder Pu	mp	С				Sample Equ	Disposable Bailer Whaler # Bladder Pump	
Analyses F	SS Monsoo		nnlu):				Num	Submersible Pump ber and Types of B	
TPH-G	BTEX	circle all that a	ppiy):					Voa's w/ hcl	ottle Osea.
11110	BILK								
Well Numb Depth to W Well Depth Height W-O Volume in Gallons to Lab:	Vater: i: Column: Well:	MW-3 15,76 23,09 7,33 1,17 3,51	TOC BGS or TOC feet (well dep gallons (casir gallons (volur	ng volume		Transpo		4" = (0.65 0 5" = (1.02 0 6" = (1.47 0	Gallon/Feet) Gallon/Feet) Gallon/Feet) Gallon/Feet) Gallon/Feet)
Time (24 hr.)	Volume Purged (Gallons)	Temperature (°C)	Conductivity (ms/cm)	D.O. (ppm)	рН	TDS (ppm)	Turbidi	ity: Color - Fines	Micropurge Paramaters Stabilized
1405	STATA	7 -	urts						
1406	1,25	2413	548	4.73	7.24	38)	low! cl	ear, min	
1407	2.50	21.3	532	3.60	7.18	356	1		
1408	3.75	20.3	541	3,81	7.17	350	WO	1	
ST	Pur Pur		0				1		
3/4	- 100	& conpars	1						-
)							
			- 10/						
	Ori			er (from Toulate 80% of	OC), for 809 orginal well vo	% well vol	ume recovery		
Time:	1st measured	depth to water, depth to water, depth to water,	feet bel	ow TOC. ow TOC.	ple Well	Is well with	hin 80% of origina	al well casing volume: Yes al well casing volume: Yes al well casing volume: Yes	s No
Time:	1420		Sample ID:	/lu	W-3		Dept	h: 15/78	
Comments	No e	don- No	Sneen						
Well Condi	tion:	good							
- 6.		J					Cleaves	olutions INC OMS	EDE

Project Na	ame/No.:	Pa	lace Garage -	San Lear	dro, CA		Date:	11-3-09	_
Sample No	o.: WV	v-4							
Samplers	Name:		Kevin L	olan					
Purge Equ		posable or Acryli	c the pump V				Sample Equ	uipment: Disposable Bailer _ Whaler # Bladder Pump Submersible Pump	o
Analyses		circle all that a	pply):				Num	ber and Types of B	
TPH-G	BTEX						The second secon	Voa's w/ hcl	
Well Numl	ber:	Mw-4				1	Well Diameter	r: 3/01 with Casing	
Depth to V	Nater:	16.03	TOC				1 11	2" = (0.16 (
Well Depti	h:	21.95	BGS or TOC			2	3/4"=0,0	4" = (0.65 C	Gallon/Feet)
Height W-	Column:	5.92	feet (well dep	th - depth	to water)		1 -	5" = (1.02 (Gallon/Feet)
Volume in	Well:	0,25	gallons (casir	g volume	X height)			6" = (1.47 (Gallon/Feet)
Gallons to	purge:	0.15	gallons (volur	ne X 3)				8" = (2.61 (Gallon/Feet)
Lab:	SunStar					Transpo	ortation:	Golden State Ove	ernight
Time (24 hr.)	Volume Purged (Gallons)	Temperature (°C)	Conductivity (ms/cm)	D.O. (ppm)	рН	TDS (ppm)	Turbidi	ity: Color - Fines	Micropurge Paramaters Stabilized
1333	,25	24.9	180	432	7.76	546	Hahi B	wown, many	
1338	150	23,7	648	4156	7.71		1	,) ,)	
1344	135	245	1026	4178	7175	423	V	VV	
Stap!	Purge con	111	4						
NAS.	Fairy Con	0410							
/						-			
		/							
			- 140						
			ait for 80% we depth to wate					r:	
					orginal well ve				
	Ori	iginal Height of Wate	r Column = 5(9	2 x 0.8 =	4173-1	Well Depth)	2/195 = De	epth to water 17,2	1
Time: <u> 359</u>	1st measured	depth to water,		ow TOC.		Is well wit	hin 80% of origina	al well casing volume: Yes	No
Time:	_ 1st measured	depth to water,	feet bel	ow TOC.		Is well wit	hin 80% of origina	al well casing volume: Yes	s No
4814				Sam	ple Well				
Time	: 1400		Sample ID:	N	1W-4		_ Dept	h: 16,33	
Comments	3:	NO ONBR-	NO Shoen	_	Pull	1 tubi	ing From	n well Alt	22
(Samele	event,			1.241)	10	
Well Condi	ition:	Conaly							
		The state of the s							
							Closure S	olutions INC QMS	FDS

Attachment B

Laboratory Procedures, Certified Analytical Reports and Chain-of-Custody Records





10 November 2009

Kate Waldo Closure Solutions 1243 Oak Knoll Dr. Concord, CA 94521

RE: Palace Garage

Enclosed are the results of analyses for samples received by the laboratory on 11/06/09 10:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kevin Moore

Director of Business Development



Closure Solutions Project: Palace Garage

1243 Oak Knoll Dr. Project Number: [none] Reported:

Concord CA, 94521 Project Manager: Kate Waldo 11/10/09 11:09

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	T901043-01	Water	11/03/09 14:43	11/06/09 10:00
MW-2	T901043-02	Water	11/03/09 15:02	11/06/09 10:00
MW-3	T901043-03	Water	11/03/09 14:20	11/06/09 10:00
MW-4	T901043-04	Water	11/03/09 14:00	11/06/09 10:00

SunStar Laboratories, Inc.



Closure Solutions
Project: Palace Garage

1243 Oak Knoll Dr.
Project Number: [none]
Reported:
Concord CA, 94521
Project Manager: Kate Waldo

11/10/09 11:09

MW-1 T901043-01 (Water)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	;	SunStar La	aborato	ries, Inc.					
Volatile Organic Compounds by I	EPA Method 82601	В							
Benzene	6.0	0.50	ug/l	1	9110607	11/06/09	11/06/09	EPA 8260B	
Toluene	0.70	0.50	"	"	"	"	"	"	
Ethylbenzene	12	0.50	"	"	"	"	"	"	
m,p-Xylene	34	1.0	"	"	"	"	"	"	
o-Xylene	6.5	0.50	"	"	"	"	"	"	
C6-C12 (GRO)	75	50	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.8 %	77.1	-110	"	"	"	"	
Surrogate: Dibromofluoromethane		111 %	66.3	?-111	"	"	"	"	
Surrogate: Toluene-d8		99.1 %	84.7	7-109	"	"	"	"	

SunStar Laboratories, Inc.



Closure Solutions Project: Palace Garage

1243 Oak Knoll Dr. Project Number: [none] Reported:

Concord CA, 94521 Project Manager: Kate Waldo 11/10/09 11:09

MW-2 T901043-02 (Water)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

SunStar Laboratories, Inc.

		Sunstai La	1001 atol 1	es, me.					
Volatile Organic Compounds by E	PA Method 8260	В							
Benzene	22	0.50	ug/l	1	9110607	11/06/09	11/06/09	EPA 8260B	
Toluene	0.55	0.50	"	"	"	"	"	"	
Ethylbenzene	9.4	0.50	"	"	"	"	"	"	
m,p-Xylene	4.3	1.0	"	"	"	"	"	"	
o-Xylene	0.75	0.50	"	"	"	"	"	"	
C6-C12 (GRO)	220	50	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	77.1-	110	"	"	"	"	
Surrogate: Dibromofluoromethane		106 %	66.3-	111	"	"	"	"	
Surrogate: Toluene-d8		99.8 %	84.7-	109	"	"	"	"	

SunStar Laboratories, Inc.



Volatile Organic Compounds by EPA Method 8260B

25712 Commercentre Drive Lake Forest, California 92630 949.297.5020 Phone 949.297.5027 Fax

Closure Solutions Project: Palace Garage

1243 Oak Knoll Dr.Project Number: [none]Reported:Concord CA, 94521Project Manager: Kate Waldo11/10/09 11:09

MW-3 T901043-03 (Water)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

SunStar Laboratories, Inc.

Benzene	ND	0.50	ug/l	1	9110607	11/06/09	11/06/09	EPA 8260B
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"

 C6-C12 (GRO)
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SunStar Laboratories, Inc.



Closure Solutions Project: Palace Garage

1243 Oak Knoll Dr.Project Number: [none]Reported:Concord CA, 94521Project Manager: Kate Waldo11/10/09 11:09

MW-4 T901043-04 (Water)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

SunStar Laboratories, Inc.

Volatile Organic Compounds by EP	A Method 8260B							
Benzene	ND	0.50	ug/l	1	9110607	11/06/09	11/06/09	EPA 8260B
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"

 C6-C12 (GRO)
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SunStar Laboratories, Inc.



RPD

%REC

Closure Solutions Project: Palace Garage

1243 Oak Knoll Dr.Project Number: [none]Reported:Concord CA, 94521Project Manager: Kate Waldo11/10/09 11:09

Reporting

Volatile Organic Compounds by EPA Method 8260B - Quality Control SunStar Laboratories, Inc.

Spike

Source

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 9110607 - EPA 5030 GCMS										
Blank (9110607-BLK1)				Prepared	& Analyz	ed: 11/06/	09			
Benzene	ND	0.50	ug/l							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	0.50	"							
C6-C12 (GRO)	ND	50	"							
Surrogate: 4-Bromofluorobenzene	7.14		"	8.00		89.2	77.1-110			
Surrogate: Dibromofluoromethane	9.35		"	8.00		117	66.3-111			S-GC
Surrogate: Toluene-d8	7.96		"	8.00		99.5	84.7-109			
LCS (9110607-BS1)				Prepared	& Analyz	ed: 11/06/	09			
Benzene	20.7	0.50	ug/l	20.0		103	75-125			
Toluene	20.1	0.50	"	20.0		101	75-125			
Surrogate: 4-Bromofluorobenzene	8.02		"	8.00		100	77.1-110			
Surrogate: Dibromofluoromethane	9.24		"	8.00		116	66.3-111			S-GC
Surrogate: Toluene-d8	7.92		"	8.00		99.0	84.7-109			
LCS Dup (9110607-BSD1)				Prepared	& Analyz	ed: 11/06/	09			
Benzene	19.7	0.50	ug/l	20.0		98.4	75-125	4.91	20	
Toluene	19.4	0.50	"	20.0		97.2	75-125	3.49	20	
Surrogate: 4-Bromofluorobenzene	7.87		"	8.00		98.4	77.1-110			
Surrogate: Dibromofluoromethane	8.39		"	8.00		105	66.3-111			
Surrogate: Toluene-d8	7.84		"	8.00		98.0	84.7-109			

SunStar Laboratories, Inc.



Closure Solutions Project: Palace Garage

1243 Oak Knoll Dr.Project Number: [none]Reported:Concord CA, 94521Project Manager: Kate Waldo11/10/09 11:09

Notes and Definitions

S-GC Surrogate recovery outside of established control limits. The data was accepted based on valid recovery of the remaining surrogate(s).

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

SunStar Laboratories, Inc.

SunStar Laboratories, Inc. 25712 Commercentre Dr Lake Forest, CA 92630 949-297-5020

Chain of Custody Record

T901043

Address: 12-13 OAV KNOW DR. CONCORD, Cet 9457 Phone: IRIL & 102 - 1025 Fax: Project Manager: KATE WATGO ~ Kwaldoo Closwessuchess CM Sample ID Sample ID Sample ID Date Sample O Date Sampled Time Type Type Type 1983 88 88 88 88 88 88 88 88 88 88 88 88 8	-	e:Of				9	4/0	u		Date						<u></u>	s inc	4tron	650	Client: CLoSus	
Sample ID Date Sampled Time Sample Container Type Type Type Type Type Type Type Type	-		GARA	t Na	Proje			21	9457	CH (WORD,	W. Co	xù D	Lkno	Address: 1243 0141						
Sample ID Date Sampled Time Sample Container Type Type Type Type Type Type Type Type	_				1	plau	- t	1/	ctor:_	Colle			_			•	Fax:	5	-702	Phone: 1916-760	
Sample ID Date Sampled Time Type Container Type Type Type Type Type Type Type Type	-	#: T6600101043	_ EDF				OX WIL	09	#: <u>Y</u> (Batc		n	<i>ڊ</i> ک	utions	ve 5 z L	e closu	1Lw4ldo	1000 -	E WHZ	Project Manager: <u>KAT</u>	
Sample ID Date Sampled Time Type Type								1	T		i i	<u> </u>	Τ	-					-		
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MW-1 1/3 09 1443 CW VON HU X 01 02 02 02 02 02 03 WW-3 1400 V V V 05 05	containers					te 2	arb	` <u></u>	يَ ا		lš	١.	7								
MW-1 1/3 09 1443 CW VON HU X 01 02 02 02 02 02 03 WW-3 1400 V V V 05 05						9	X X	liese	<u>اؤ</u> ا ا		l X	≵	=								
MW-1 1/3 09 1443 CW VOH HU X 01 MW-2 1502 1 02 WW-3 1420 03 WW-4 1400 V 04 0A DL TB 05	# of		rato			70/	ME	Į Į			B	H	1								
MW-1 1/3/09 1443 GW VON HLL X 01 MW-2 1502 1 02 WW-3 1420 03 WW-4 1400 V 04 QA QL TB 05	Igg 2	Comments/Preservative	app			6	3015	2015	2 2	270	260	8	1260				Time	Sampled	Date	Sample ID	
MW-2 (502) 02 (420) 03 (440) 05 (505) 05	4	Commencer reservative					1	+*	"	*	1"		ヹ			an	1443	Ing.	100		
MW-4 V 1400 V V V 04 05 05	4												Π	$oxed{\Box}$			1502			mw-2	
8A 8L TB 05	4		103	<u> </u>				+	+	-	-	-	$+\!\!+$				1420		 ,		
	14		05		+			+	+	+	1	+	₩	y	 		1900	<u>r</u>			
Relinquished by: (signature) Received by: (signature) Date / Time Total # of containers Notes																				CANTOC	
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Relinquished by: (signature) Date / Time Received by: (signature) Date / Time Seals intact? Y/N/NA NA RUSULTS Mail, to Client	5,-	pesults mail tocheut	seals intact? Y/N/NA NA RUSULTS Mail, foll																		
Hed Ex 11/6/09 1000 Than 146/09 1000 Received good condition/cold 4.4		1	Received good condition/cold 4.4			_ F								/ / / / / / / / / / / / / / / / / / / /							ded Ex
Received by: (signature) Date / Time Received by: (signature) Date / Time)	/ Hm	Date			ture)	r: (signat	Received by	е	Date / Tim		Relinquished by: (signature)	
Sample disposal Instructions: Disposal @ \$2.00 each Return to client Pickup			_	> UAY	ne:	und tim	n aro	Tur	-,,-												