

June 15, 2012

Mr. Mark Detterman
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502

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8:41 am, Jun 20, 2012

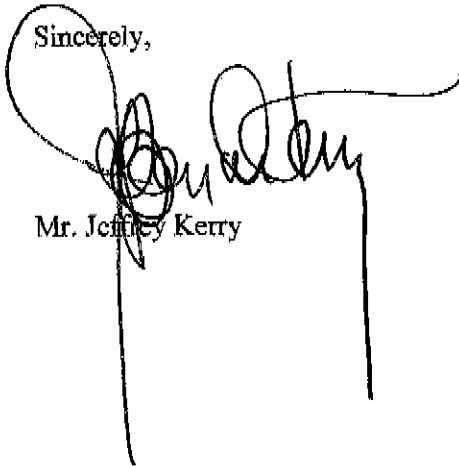
Alameda County
Environmental Health

**Re: Kerry & Associates – Palace Garage
14336 Washington Avenue
San Leandro, California
ACEH Case No. RO0000208**

Dear Mr. Detterman,

I declare, under penalty of perjury, that the information and/or recommendations contained in the **Second Quarter 2012 Groundwater Monitoring Report** are true and correct to the best of my knowledge.

Sincerely,

A handwritten signature in black ink, appearing to read "Jeffrey Kerry", is written over the typed name. The signature is fluid and cursive, with a large loop at the beginning and a long tail extending downwards.

Mr. Jeffrey Kerry



June 15, 2012

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

**Subject: Second Quarter 2012 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 *Second Quarter 2012 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 three monitoring wells (MW-1 through MW-3) and the drilling of 15 borings (B-1 through B-15). 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 on 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 were 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.

On May 14, 2010, Closure Solutions submitted a letter to the ACEH stating that Closure Solutions intended to proceed with the proposed scope of work pursuant to CCR Title 23, Division 3, Chapter 16, Section 2722 (e) which states “Implementation of the proposed workplan may begin sixty (60) calendar days after submittal, unless the responsible party is otherwise directed in writing by the regulatory agency”. On May 21, 2010, the ACEH responded to Closure Solutions’ letter of intent via email explaining that the ACEH has been largely precluded from generating letters on cases due to the work load imposed by SWRCB Resolution 2009-0042 and they will attempt to raise the review interval for the Site.

On July 26, 2010, a representative from Closure Solutions was on site to oversee the installation and sampling of three temporary soil vapor probes (SV-1 through SV-3) and advancement of one down-gradient soil boring (SB-18). A *Soil Vapor Testing and Additional Assessment Report* describing field activities and discussing analytical soil and soil vapor results was submitted to the ACEH on August 30, 2010.

On January 24, 2012, Closure Solutions supervised the advancement of two soil borings, collection of additional soil and groundwater data, and installation of wells MW-5 and MW-6. The work was completed in order undertake further corrective actions at the site. Collected soil and groundwater samples were analyzed for gasoline range organics (GRO), benzene, toluene, ethylbenzene, and xylenes (BTEX compounds). Additionally, bioattenuation parameters were

analyzed for groundwater collected from well MW-5. A discussion of analytical results is presented in the *Groundwater Monitoring Well Installation Report* submitted on March 30, 2012

After completing the monitoring well installation a dual-phase extraction (DPE) pilot test was performed from February 21 through 25, 2012. The pilot test was conducted to evaluate whether DPE would be a viable technology to remediate soil and groundwater beneath the Site. High groundwater extraction rates were encountered during pilot testing conducted from MW-1. As a result subsurface soils could not be effectively dewatered to allow remediation via vapor extraction. Pilot testing from well MW-6, produced average groundwater extraction rates that were roughly two-thirds less than those observed during testing from MW-1. Subsequently, the technology was successful in lowering the groundwater table in the vicinity of well MW-6 and exposing the capillary fringe or “smear” zone. Based on the results of testing performed from MW-6, DPE appears to be a viable option for Site remediation.

Closure Solutions continues to conduct groundwater monitoring and sampling on a semi-annual basis during second and fourth quarters.

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. Prepared and Submitted *Dual Phase Extraction Pilot Test Report* on April 13, 2012.
2. Performed semi-annual groundwater monitoring event on May 9, 2012.

WORK PROPOSED FOR NEXT QUARTER:

1. The next groundwater monitoring event will be performed in fourth quarter 2012.

3.0 DISCUSSION OF RECENT ACTIVITIES

Closure Solutions performed this quarter’s groundwater monitoring and sampling event at the Site on May 9, 2012. Gauging, purging and sampling were conducted in accordance with Closure Solution’s Standard Operating Procedures (included in Attachment A). The collected groundwater samples were submitted to SunStar Laboratories for laboratory analysis under Chain-of-Custody protocols. The samples were analyzed for gasoline range organics (GRO) and benzene, toluene, ethylbenzene and total xylenes (BTEX) by EPA Method 8260B. Additionally, samples MW-2, MW-3 and MW-5 were analyzed for the following bio-attenuation parameters: ferrous iron by EPA Method 6010, total alkalinity by EPA Method 310.1, and sulfate and nitrate by EPA Method 300.0.

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-6
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):	13.47
Groundwater Elevation (in feet above mean sea level)	23.58 (MW-4) to 24.08 (MW-6)
Groundwater Gradient (direction):	Southwest
Groundwater Gradient (magnitude):	0.002 feet per foot
GRO detected concentration range:	4,300 µg/L (MW-2) to 34,000 µg/L (MW-6)
Benzene detected concentration range:	21 µg/L (MW-2) to 190 µg/L (MW-1)
Toluene detected concentrations:	0.65 µg/L (MW-2) and 310 µg/L (MW-6)
Ethylbenzene detected concentration range:	23 µg/L (MW-2) to 1,700 µg/L (MW-6)
Xylenes detected concentration range:	7.77 µg/L (MW-2) to 3,920 µg/L (MW-6)

Laboratory procedures, chain of custody records, and the certified analytical reports are included as Attachment B. Groundwater elevation and analytical data are summarized in Tables 1 and 2. Bio-attenuation parameters are summarized in Table 3.

Purge water generated during the monitoring and sampling event was stored onsite pending characterization and disposal.

4.0 CONCLUSIONS AND RECOMMENDATIONS

Clayey soils with low hydraulic conductivity and effective porosity have been identified from near ground surface to approximately 12 feet bgs with the first water bearing zone located from approximately 12 to 20 feet bgs. Groundwater elevations appear to fluctuate seasonally between approximately 13 and 16 feet bgs. A review of the last six years of groundwater monitoring data suggests the fine-grained soils present beneath the Site may be restricting the vertical movement of petroleum hydrocarbon constituents.

As noted in a letter from the ACWD dated May 18, 2011, during periods of high groundwater elevation, reported concentrations of dissolved petroleum constituents in the vicinity of the source area (monitoring well MW-1) are greater than during periods of low groundwater elevation, suggesting loading of dissolved petroleum hydrocarbons to groundwater.

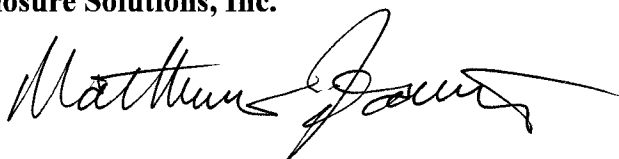
Approximately six months following a period of high groundwater elevation, concentrations in down-gradient well MW-2 undergo an increase; however the reported concentrations are an order of magnitude lower. Concentrations in recently installed well MW-5, located down-gradient from well MW-2, have been below laboratory reporting limits. This data suggests dissolved hydrocarbons concentrations are continuing to attenuate and do not extend off-site.

Bio-parameters will be sampled in the fourth quarter 2012, following which an evaluation of the data will be completed. 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.

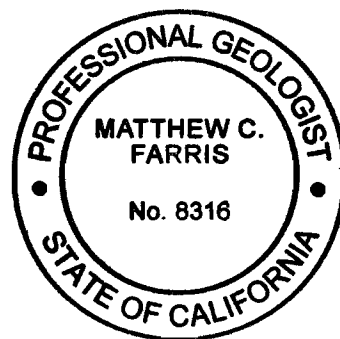
We appreciate the opportunity to present this document and trust that it meets with your approval. If you have any questions or concerns, please contact the undersigned at (916) 760-7579 or at mfarris@closureolutions.com.

Sincerely,

Closure Solutions, Inc.



Matthew Farris, P.G.
Project Geologist



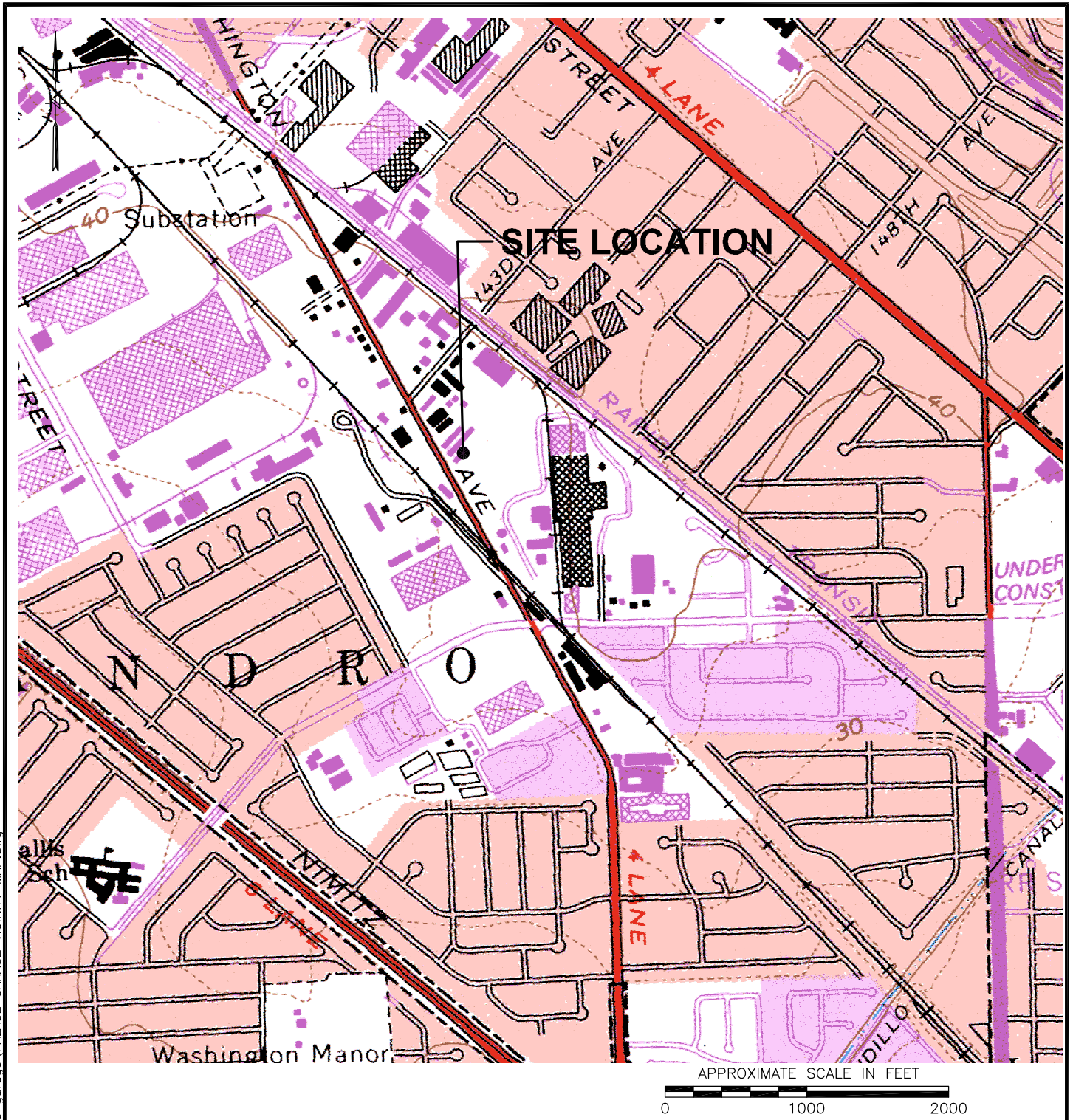
ATTACHMENTS:

- Figure 1 Site Location Map
- Figure 2 Second Quarter 2012 Groundwater Monitoring & Sampling Results – Groundwater Contour Map – May 9, 2012

- Table 1 Groundwater Elevation and Analytical Data
- Table 2 Fuel Oxygenate & Lead Scavenger Analytical Data
- Table 3 Bio-Attenuation Parameters

- 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



20101130.14161396 D:\Client Drawings\Closure\palace garage VICINITY MAP.dwg

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

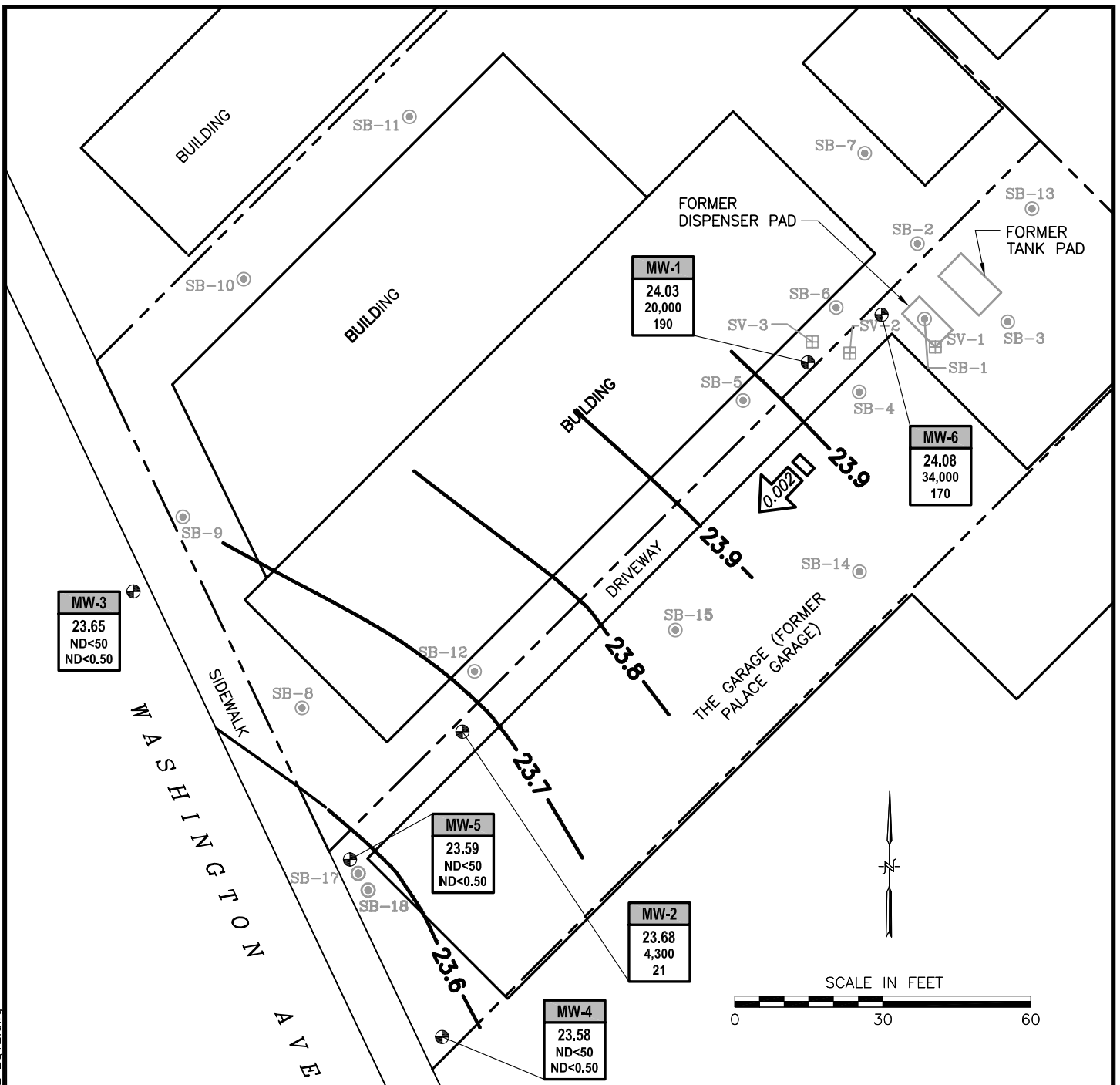
FIGURE 1 SITE LOCATION MAP

PALACE GARAGE
 1436 WASHINGTON AVENUE
 SAN LEANDRO, CALIFORNIA



CLOSURE SOLUTIONS, INC.

4600 Northgate Boulevard • Suite 230
 Sacramento • California • 95834
 Phone: (800) 988-7880



LEGEND:

- GROUNDWATER MONITORING WELL LOCATION
- SOIL VAPOR PROBE
- SOIL BORING LOCATION LOCATION
- PROPERTY LINE
- | |
|---------|
| WELL |
| ELEV |
| GRO |
| BENZENE |

 WELL DESIGNATION
- | |
|---------|
| ELEV |
| GRO |
| BENZENE |

 GROUNDWATER ELEVATION (FT ABOVE MSL)
- | |
|---------|
| ELEV |
| GRO |
| BENZENE |

 GRO and BENZENE CONCENTRATIONS (µg/L)
- GROUNDWATER ELEVATION CONTOURS (FEET ABOVE MEAN SEA LEVEL- NAVD 88)
- GROUNDWATER FLOW DIRECTION AND GRADIENT (FT/FT)

NOTES:

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

FIGURE 2

SECOND QUARTER 2012
GROUNDWATER MONITORING
& SAMPLING RESULTS

**GROUNDWATER CONTOUR MAP
MAY 9, 2012**

PALACE GARAGE
14336 WASHINGTON AVENUE
SAN LEANDRO, CALIFORNIA



4600 Northgate Boulevard • Suite 230
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Phone: (800) 988-7880

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/ GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)
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
	12/20/2007		15.69	21.90	280	4.3	1.3	15	37
	2/21/2008		13.72	23.87	19,000	300	150	1,100	4,900
	5/15/2008		14.60	22.99	7,200	140	50	370	2,040
	8/7/2008		15.62	21.97	820	13	3.1	44	100
	11/13/2008		16.14	21.45	670	10	2.1	31	110
	6/19/2009		15.15	22.44	1,490	85.8	13.4	164	310
	11/3/2009		15.98	21.61	75	6.0	0.70	12	40.5
	5/4/2010		13.40	24.19	18,000	300	61	880	4,070
	11/8/2010		15.83	21.76	170	4.9	ND<0.50	7.7	24
	4/22/2011		12.34	25.25	3,800	250	48	810	3,260
	12/15/2011		14.77	22.82	1,500	21	0.88	29	4.6
	5/9/2012		13.56	24.03	20,000	190	27	810	3,150

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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
	12/20/2007		15.40	21.72	1,500	63	1.1	16	4.9
	2/21/2008		13.60	23.52	710	23	ND<0.50	6.2	1.1
	5/15/2008		14.47	22.65	1,600	84	1.4	28	9.8
	8/7/2008		15.48	21.64	2,100	86	1.6	22	9.0
	11/13/2008		15.99	21.13	2,300	46	1.1	15	4.5
	6/19/2009		15.03	22.09	931	60.1	ND<2.0	30	3.1
	11/3/2009		15.87	21.25	220	22	0.55	9.4	5.05
	5/4/2010		12.92	24.20	950	14	0.57	9.1	13.2
	11/8/2010		15.71	21.41	1,900	45	1.6	44	9.28
	4/22/2011		12.27	24.85	1,400	30	1.2	29	5.78
	12/15/2011		14.86	22.26	4,300	160	26	480	790
	5/9/2012		13.44	23.68	4,300	21	0.65	23	7.77

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San Leandro, California

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MW-3	12/31/2002	37.01	13.29	23.72	<50	<0.5	<0.5	<0.5	<1.0
	9/22/2006		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
	12/20/2007		15.30	21.71	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	2/21/2008		---	---	---	---	---	---	---
	5/15/2008		14.35	22.66	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0
	8/7/2008		15.39	21.62	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	11/13/2008		15.90	21.11	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	6/19/2009		14.94	22.07	ND<50	ND<1.0	ND<1.0	ND<1.0	ND<2.0
	11/3/2009		15.76	21.25	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0
	5/4/2010		13.20	23.81	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.5
	11/8/2010		15.62	21.39	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.5
	4/22/2011		12.17	24.84	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.5
	12/15/2011		14.63	22.38	150	1.5	ND<0.50	3.0	12.2
	5/9/2012			13.36	23.65	ND<50	ND<0.50	ND<0.50	ND<0.50

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MW-4	12/31/2002	37.09	13.45	23.64	<50	<0.5	<0.5	<0.5	<1.0
	9/22/2006		13.40	23.69	<50	<0.5	<0.5	<0.5	<1.5
	12/21/2006		13.86	23.23	<50	<0.5	<0.5	<0.5	<1.5
	3/29/2007		13.69	23.40	<50	<0.5	<0.5	<0.5	<1.5
	9/27/2007		15.48	21.61	ND<50	1.5	ND<0.50	0.71	0.74
	12/20/2007		15.28	21.81	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	2/21/2008		13.56	23.53	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0
	5/15/2008		14.58	22.51	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0
	8/7/2008		15.57	21.52	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	11/13/2008		16.09	21.00	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	6/19/2009		15.15	21.94	ND<50	ND<1.0	ND<1.0	ND<1.0	ND<2.0
	11/3/2009		16.03	21.06	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0
	5/4/2010		13.11	23.98	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.5
	11/8/2010		15.89	21.20	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.5
	4/22/2011		12.40	24.69	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.5
	12/15/2011		15.03	22.06	86	ND<0.50	ND<0.50	ND<0.50	1.3
	5/9/2012		13.51	23.58	ND<50	ND<0.50	0.84	ND<0.50	ND<1.5

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/ GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)
MW-5	2/2/2012	37.27	15.06	22.21	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.50
	5/9/2012		13.68	23.59	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.50
MW-6	2/2/2012	37.34	14.63	22.71	17,000	340	57	1,900	2,100
	5/9/2012		13.26	24.08	34,000	170	310	1,700	3,920

Table 1
Groundwater Elevation and Analytical Data

Palace Garage
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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)
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ABBREVIATIONS:

- TPHg/ GRO total petroleum hydrocarbons as gasoline. Gasoline range organics
- B 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
- Bold** Current sampling event
- MSL mean sea level

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	12/31/2002	<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
	12/21/2007	1.5	ND<5.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	2/21/2008	ND<7.0	ND<40	ND<7.0	ND<7.0	ND<7.0	ND<7.0	ND<7.0
	5/15/2008	ND<2.5	ND<15	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5
	8/7/2008	1.0	ND<5.0	ND<0.50	ND<0.50	ND<0.50	--	--
	11/13/2008	1.1	ND<5.0	ND<0.50	ND<0.50	ND<0.50	--	--
MW-2	12/31/2002	<0.5	--	--	--	--	--	--
	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
	12/20/2007	0.95	ND<5.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	2/21/2008	ND<0.50	ND<5.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	5/15/2008	ND<0.90	ND<5.0	ND<0.90	ND<0.90	ND<0.90	ND<0.90	ND<0.90
	8/7/2008	0.59	ND<5.0	ND<0.90	ND<0.90	ND<0.90	--	--
	11/13/2008	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	12/31/2002	<0.5	--	--	--	--	--	--
	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
	12/20/2007	ND<0.50	ND<5.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	2/21/2008	--	--	--	--	--	--	--
	5/15/2008	ND<0.50	ND<5.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	8/7/2008	ND<0.50	ND<5.0	ND<0.50	ND<0.50	ND<0.50	--	--
	11/13/2008	ND<0.50	ND<5.0	ND<0.50	ND<0.50	ND<0.50	--	--
MW-4	12/31/2002	<0.5	--	--	--	--	--	--
	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
	12/20/2007	ND<0.50	ND<5.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	2/21/2008	ND<0.50	ND<5.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	5/15/2008	ND<0.50	ND<5.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	8/7/2008	ND<0.50	ND<5.0	ND<0.50	ND<0.50	ND<0.50	--	--
	11/13/2008	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 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)
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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
µg/L	Micrograms per liter (parts per billion [ppb])
---	Not analyzed/measured/applicable
ND<	Not detected at or above specified laboratory reporting limit

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 3
Bio-Attenuation Parameters
Palace Garage
14336 Washington Avenue
San Leandro, California

Well ID	Date Sampled	Dissolved Oxygen (mg/L)	Alkalinity (pH) (mg/L)	Sulfate (mg/L)	Nitrate (mg/L)	Ferrous Iron (mg/L)
MW-1	12/15/2011	1.23	420	23.4	18.9	0.352
MW-2	12/15/2011	1.86	370	53.8	44.0	ND<0.100
	5/6/2012	--	440	21.4	13.4	0.153
MW-3	12/15/2011	1.23	200	37.2	42.3	ND<0.100
	5/6/2012	--	310	36.9	21.5	ND<0.100
MW-5	5/6/2012	--	240	49.0	44.0	ND<0.100

ABBREVIATIONS:

mg/L Milligrams per liter
--- Not analyzed/measured/applicable
ND< Not detected at or above specified laboratory reporting limit

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 HARMFUL 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.

GROUNDWATER MONITORING WELL SAMPLING FIELD DATA SHEET

Project Name/No.: Palace Garage - San Leandro, CA Date: May 6, 2012

Sample No.: MW-1

Samplers Name: Kevin Dolan

Purge Equipment:
 _____ Bailer: Disposable or Acrylic
 _____ 12 v. Pump -
 _____ Bladder Pump
 _____ SS Monsoon #

Sample Equipment:
 Disposable Bailer
 _____ Whaler # _____
 _____ Bladder Pump
 _____ Submersible Pump

Analyses Requested (circle all that apply):

Number and Types of Bottle Used:

TPH-G BTEX	3 Voa's w/ hcl
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Well Number: MW-1
 Depth to Water: 13.56 TOC
 Well Depth: 23.25 BGS or TOC
 Height W-Column: 9.69 feet (well depth - depth to water)
 Volume in Well: 1.55 gallons (casing volume X height)
 Gallons to purge: 4.65 gallons (volume X 3)
 Lab: SunStar

Well Diameter: 2" with Casing Volume of:
 2" = (0.16 Gallon/Feet)
 4" = (0.65 Gallon/Feet)
 5" = (1.02 Gallon/Feet)
 6" = (1.47 Gallon/Feet)
 8" = (2.61 Gallon/Feet)

Transportation: Golden State Overnight

Time (24 hr.)	Volume Purged (Gallons)	Temperature (°C)	Conductivity (ms/cm)	D.O. (ppm)	pH	TDS (ppm)	Turbidity: Color - Fines	Micropurge Parameters Stabilized
<u>1449</u>	<u>Start</u>			<u>9/2</u>		<u>9/2</u>	<u>NTU</u>	<u>ORP</u>
<u>1451</u>	<u>1.60</u>	<u>19.03</u>	<u>0.948</u>	<u>4.58</u>	<u>6.75</u>	<u>0.58</u>	<u>79: clear, min</u>	<u>-78</u>
<u>1452</u>	<u>3.20</u>	<u>18.71</u>	<u>0.923</u>	<u>4.73</u>	<u>6.73</u>	<u>0.51</u>	<u>73: ↓ ↓</u>	<u>-73</u>
<u>1454</u>	<u>5</u>	<u>18.32</u>	<u>0.906</u>	<u>4.64</u>	<u>6.71</u>	<u>0.46</u>	<u>71: ↓ ↓</u>	<u>-72</u>
<u>Stop</u>	<u>Purge complete</u>							

Wait for 80% well volume recovery prior to sampling.
 Calculate depth to water (from TOC), for 80% well volume recovery:

Calculate 80% of original well volume:
 Original Height of Water Column = $9.69 \times 0.8 = 7.75$ - (Well Depth) 23.25 = Depth to water 15.50

Time: 1505 1st measured depth to water, 14.01 feet below TOC.
 Time: _____ 1st measured depth to water, _____ feet below TOC.
 Time: _____ 1st measured depth to water, _____ feet below TOC.

Is well within 80% of original well casing volume: Yes No _____
 Is well within 80% of original well casing volume: Yes _____ No _____
 Is well within 80% of original well casing volume: Yes _____ No _____

Sample Well

Time: 1505 Sample ID: MW-1 Depth: 14.01

Comments: Slight H₂O odor - no sheen

Well Condition: good

GROUNDWATER MONITORING WELL SAMPLING FIELD DATA SHEET

Project Name/No.: Palace Garage - San Leandro, CA Date: May 6, 2012

Sample No.: MW-2

Samplers Name: Kevin Dolan

Purge Equipment:

Bailer: Disposable or Acrylic
 12 v. Pump -
 Bladder Pump
 SS Monsoon #

Sample Equipment:

Disposable Bailer
 Whaler # _____
 Bladder Pump
 Submersible Pump

Analyses Requested (circle all that apply):

TPH-G	BTEX		3 Voa's w/ hcl
		<u>+ TS10 Parameters</u>	<u>(1) 500 mL Poly</u>

Well Number: MW-2 Well Diameter: 2' with Casing Volume of:
 Depth to Water: 13.44 TOC 2" = (0.16 Gallon/Feet)
 Well Depth: 23.64 BGS or TOC 4" = (0.65 Gallon/Feet)
 Height W-Column: 10.20 feet (well depth - depth to water) 5" = (1.02 Gallon/Feet)
 Volume in Well: 1.63 gallons (casing volume X height) 6" = (1.47 Gallon/Feet)
 Gallons to purge: 4.89 gallons (volume X 3) 8" = (2.61 Gallon/Feet)

Lab: SunStar Transportation: Golden State Overnight

Time (24 hr.)	Volume Purged (Gallons)	Temperature (°C)	Conductivity (ms/cm)	D.O. (ppm)	pH	TDS (ppm)	Turbidity: Color - Fines	Micropurge Parameters Stabilized
1422	Start			g/L		g/L	NTU	0.28
1424	1.75	18.37	0.983	4.81	6.42	0.63	101: clear, min	-103
1426	3.5	18.12	0.985	3.98	6.50	0.78	71: ↓ ↓	-126
1428	5	17.95	0.988	3.91	6.58	0.80	63: ↓ ↓	-134
	Stop! Purge Complete							

Wait for 80% well volume recovery prior to sampling.
 Calculate depth to water (from TOC), for 80% well volume recovery:

Calculate 80% of original well volume:
 Original Height of Water Column = $10.20 \times 0.8 = 8.16$ - (Well Depth) $23.64 =$ Depth to water 15.48

Time: 1440 1st measured depth to water, 13.49 feet below TOC.
 Time: _____ 1st measured depth to water, _____ feet below TOC.
 Time: _____ 1st measured depth to water, _____ feet below TOC.

Is well within 80% of original well casing volume: Yes No _____
 Is well within 80% of original well casing volume: Yes _____ No _____
 Is well within 80% of original well casing volume: Yes _____ No _____

Sample Well

Time: 1440 Sample ID: MW-2 Depth: 13.49

Comments: No odor. No Shale

Well Condition: Good

GROUNDWATER MONITORING WELL SAMPLING FIELD DATA SHEET

Project Name/No.: Palace Garage - San Leandro, CA Date: May 6, 2012

Sample No.: MW-3

Samplers Name: Kevin Dolan

Purge Equipment:

Bailer: Disposable or Acrylic
 12 v. Pump -
 Bladder Pump
 SS Monsoon #

Sample Equipment:

Disposable Bailer
 Whaler # _____
 Bladder Pump
 Submersible Pump

Analyses Requested (circle all that apply):

TPH-G BTEX	3 Voa's w/ hcl
---------------	----------------

Well Number: MW-3 Well Diameter: 2" with Casing Volume of:
 Depth to Water: 13.36 TOC 2" = (0.16 Gallon/Feet)
 Well Depth: 23.06 BGS or TOC 4" = (0.65 Gallon/Feet)
 Height W-Column: 9.70 feet (well depth - depth to water) 5" = (1.02 Gallon/Feet)
 Volume in Well: 1.55 gallons (casing volume X height) 6" = (1.47 Gallon/Feet)
 Gallons to purge: 4.65 gallons (volume X 3) 8" = (2.61 Gallon/Feet)

Lab: SunStar Transportation: Golden State Overnight

Time (24 hr.)	Volume Purged (Gallons)	Temperature (°C)	Conductivity (ms/cm)	D.O. (ppm)	pH	TDS (ppm)	Turbidity: Color - Fines	Micropurge Parameters Stabilized
1326	Start			9.1		9.1		ORP
1328	1.55	19.56	0.655	4.69	6.09	0.42	205' Hazy, grey, mod	81
1330	3.20	18.91	0.618	4.73	6.21	0.40	93' ↓ ↓	63
1332	4.75	18.54	0.598	5.11	6.23	0.38	88' Clear, min	59
1335	Purge Complete							
2								

Wait for 80% well volume recovery prior to sampling.
 Calculate depth to water (from TOC), for 80% well volume recovery:

Calculate 80% of original well volume:
 Original Height of Water Column = $9.70 \times 0.8 = 7.76$ - (Well Depth) 23.06 = Depth to water

Time: 1344 1st measured depth to water, 13.43 feet below TOC.
 Time: _____ 1st measured depth to water, _____ feet below TOC.
 Time: _____ 1st measured depth to water, _____ feet below TOC.

Is well within 80% of original well casing volume: Yes No _____
 Is well within 80% of original well casing volume: Yes _____ No _____
 Is well within 80% of original well casing volume: Yes _____ No _____

Sample Well

Time: 1345 Sample ID: MW-3 Depth: 13.43

Comments: No odor - no sheen

Well Condition: Good

GROUNDWATER MONITORING WELL SAMPLING FIELD DATA SHEET

Project Name/No.: Palace Garage - San Leandro, CA Date: May 6, 2012

Sample No.: _____

Samplers Name: Kevin Dolan

Purge Equipment:
 Bailer: Disposable or Acrylic _____
 12 v. Pump - _____
 Bladder Pump ✓ Foot valve; tube _____
 SS Monsoon # _____

Sample Equipment:
 Disposable Bailer _____
 Whaler # _____
 Bladder Pump _____
 Submersible Pump _____
 Number and Types of Bottle Used: _____

Analyses Requested (circle all that apply):
 TPH-G BTEX 3 Voa's w/ hcl

Well Number: MW-4 Well Diameter: 3/4" with Casing Volume of:
 Depth to Water: 13.51 TOC 2" = (0.16 Gallon/Feet)
 Well Depth: 21.85 BGS or TOC 4" = (0.65 Gallon/Feet)
 Height W-Column: 8.34 feet (well depth - depth to water) 3/4 = (0.0625) 5" = (1.02 Gallon/Feet)
 Volume in Well: 0.52 gallons (casing volume X height) 6" = (1.47 Gallon/Feet)
 Gallons to purge: 1.56 gallons (volume X 3) 8" = (2.61 Gallon/Feet)
 Lab: SunStar Transportation: Golden State Overnight

Time (24 hr.)	Volume Purged (Gallons)	Temperature (°C)	Conductivity (ms/cm)	D.O. (ppm)	pH	TDS (ppm)	Turbidity: Color - Fines	Micropurge Parameters Stabilized
1258	Start			g/L		g/L		DRP MW
1302	.55	18.93	0.718	5.15	7.29	0.48	712 Brown, many	N/A
1305	1.10	18.60	0.623	5.03	7.20	0.47	506 ↓ turb	↓
1307	1.60	18.53	0.619	4.67	7.16	0.48	412 Hazy; many	↓
Stop:	Purge	Complete						
2								

Wait for 80% well volume recovery prior to sampling.
 Calculate depth to water (from TOC), for 80% well volume recovery:

Calculate 80% of original well volume:
 Original Height of Water Column = $8.34 \times 0.8 = 6.67$ - (Well Depth) $21.85 =$ Depth to water 15.18

Time: 1308 1st measured depth to water, 14.49 feet below TOC. Is well within 80% of original well casing volume: Yes No _____
 Time: _____ 1st measured depth to water, _____ feet below TOC. Is well within 80% of original well casing volume: Yes _____ No _____
 Time: _____ 1st measured depth to water, _____ feet below TOC. Is well within 80% of original well casing volume: Yes _____ No _____

Sample Well

Time: 1310 Sample ID: MW-4 Depth: 14.49

Comments: no odor - no sheen

Well Condition: good -

GROUNDWATER MONITORING WELL SAMPLING FIELD DATA SHEET

Project Name/No.: Palace Garage - San Leandro, CA Date: May 6, 2012

Sample No.: _____

Samplers Name: Kevin Dolan

Purge Equipment:
 _____ Bailer: Disposable or Acrylic
X 12 v. Pump -
 _____ Bladder Pump
 _____ SS Monsoon #

Sample Equipment:
X Disposable Bailer
 _____ Whaler # _____
 _____ Bladder Pump
 _____ Submersible Pump

Analyses Requested (circle all that apply):
 TPH-G BTEX
F Bio Parameters

Number and Types of Bottle Used:
3 Voa's w/ hcl
Soome, Poly

Well Number: MW-5 Well Diameter: 2" with Casing Volume of:
 Depth to Water: 13.68 TOC 2" = (0.16 Gallon/Feet)
 Well Depth: 17.60 BGS or TOC 4" = (0.65 Gallon/Feet)
 Height W-Column: 3.92 feet (well depth - depth to water) 5" = (1.02 Gallon/Feet)
 Volume in Well: 0.62 gallons (casing volume X height) 6" = (1.47 Gallon/Feet)
 Gallons to purge: 1.88 gallons (volume X 3) 8" = (2.61 Gallon/Feet)

Lab: SunStar Transportation: Golden State Overnight

Time (24 hr.)	Volume Purged (Gallons)	Temperature (°C)	Conductivity (ms/cm)	D.O. (ppm)	pH	TDS (ppm)	Turbidity: Color - Fines	Micropurge Parameters Stabilized
1355	Start			912		912		OKP
1356	1.75	17.17	0.718	5.17	6.12	0.46	-5.0: HAZY Brown, many	105
1358	1.50	18.93	0.699	4.81	6.16	0.46	0/2 ↓ ↓	104
1359	2.00	18.84	0.685	4.60	6.20	0.44	0/2: clear, min	103
Sub. Purge Complete								
210								

Wait for 80% well volume recovery prior to sampling.
 Calculate depth to water (from TOC), for 80% well volume recovery:

Calculate 80% of original well volume:
 Original Height of Water Column = $3.92 \times 0.8 = 3.14$ - (Well Depth) $17.60 =$ Depth to water 14.46

Time: 1410 1st measured depth to water, 13.73 feet below TOC.
 Time: _____ 1st measured depth to water, _____ feet below TOC.
 Time: _____ 1st measured depth to water, _____ feet below TOC.

Is well within 80% of original well casing volume: Yes X No _____
 Is well within 80% of original well casing volume: Yes _____ No _____
 Is well within 80% of original well casing volume: Yes _____ No _____

Sample Well

Time: 1411 Sample ID: MW-5 Depth: 13.73

Comments: No odor - no smell

Well Condition: good

GROUNDWATER MONITORING WELL SAMPLING FIELD DATA SHEET

Project Name/No.: Palace Garage - San Leandro, CA Date: May 6, 2012

Sample No.: MW-6

Samplers Name: Kevin Dolan

Purge Equipment:
 Bailer: Disposable or Acrylic
 12 v. Pump -
 Bladder Pump
 SS Monsoon #

Sample Equipment:
 Disposable Bailer
 Whaler # _____
 Bladder Pump
 Submersible Pump

Analyses Requested (circle all that apply):

Number and Types of Bottle Used:

TPH-G BTEX	3 Voa's w/ hcl
------------	----------------

Well Number: MW-6 Well Diameter: 2" with Casing Volume of:
 Depth to Water: 13.26 TOC 2" = (0.16 Gallon/Feet)
 Well Depth: 19.60 BGS or TOC 4" = (0.65 Gallon/Feet)
 Height W-Column: 6.34 feet (well depth - depth to water) 5" = (1.02 Gallon/Feet)
 Volume in Well: 1.01 gallons (casing volume X height) 6" = (1.47 Gallon/Feet)
 Gallons to purge: 3.04 gallons (volume X 3) 8" = (2.61 Gallon/Feet)
 Lab: SunStar Transportation: Golden State Overnight

Time (24 hr.)	Volume Purged (Gallons)	Temperature (°C)	Conductivity (ms/cm)	D.O. (ppm)	pH	TDS (ppm)	Turbidity: Color - Fines	Micropurge Parameters Stabilized
1523	Start							
1525	1.10	17.71	0.960	5.02	6.76	.52	419; clear, min	-120
1526	2.20	17.56	0.812	4.98	6.75	0.49	525; ↓ ↓	-131
1528	3.30	17.40	0.755	4.93	6.71	0.48	519; ↓ ↓	-136
Stop	Purge	Complete						
<div style="font-size: 48px; font-weight: bold; opacity: 0.5;">2</div>								

Wait for 80% well volume recovery prior to sampling.
 Calculate depth to water (from TOC), for 80% well volume recovery:

Calculate 80% of original well volume:
 Original Height of Water Column = $13.26 \times 0.8 = 10.61$ (- Well Depth) 19.60 Depth to water 8.99

Time: 1538 1st measured depth to water, 13.41 feet below TOC.
 Time: _____ 1st measured depth to water, _____ feet below TOC.
 Time: _____ 1st measured depth to water, _____ feet below TOC.

Is well within 80% of original well casing volume: Yes No _____
 Is well within 80% of original well casing volume: Yes _____ No _____
 Is well within 80% of original well casing volume: Yes _____ No _____

Sample Well

Time: 1539 Sample ID: MW-6 Depth: 13.41

Comments: Moderate H₂S odor - no sheen

Well Condition: good

Attachment B

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



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

23 May 2012

Matt Farris
Closure Solutions
2300 Clayton Rd. Suite 1435
Concord, CA 94520
RE: Palace Garage

Enclosed are the results of analyses for samples received by the laboratory on 05/11/12 10:05. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel Chavez
Project Manager



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

Closure Solutions
2300 Clayton Rd. Suite 1435
Concord CA, 94520

Project: Palace Garage
Project Number: [none]
Project Manager: Matt Farris

Reported:
05/23/12 16:42

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	T120802-01	Water	05/09/12 15:05	05/11/12 10:05
MW-2	T120802-02	Water	05/09/12 14:40	05/11/12 10:05
MW-3	T120802-03	Water	05/09/12 13:45	05/11/12 10:05
MW-4	T120802-04	Water	05/09/12 13:10	05/11/12 10:05
MW-5	T120802-05	Water	05/09/12 14:11	05/11/12 10:05
MW-6	T120802-06	Water	05/09/12 15:39	05/11/12 10:05

SunStar Laboratories, Inc.

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Daniel Chavez, Project Manager



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Closure Solutions 2300 Clayton Rd. Suite 1435 Concord CA, 94520	Project: Palace Garage Project Number: [none] Project Manager: Matt Farris	Reported: 05/23/12 16:42
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**MW-1
T120802-01 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	190	12	ug/l	25	2051512	05/15/12	05/18/12	EPA 8260B	
Toluene	27	0.50	"	1	"	"	"	"	
Ethylbenzene	810	12	"	25	"	"	"	"	
m,p-Xylene	2900	25	"	"	"	"	"	"	
o-Xylene	250	12	"	"	"	"	"	"	
C6-C12 (GRO)	20000	50	"	1	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		95.6 %	83.5-119		"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		130 %	81-136		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		89.0 %	88.8-117		"	"	"	"	

SunStar Laboratories, Inc.

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Closure Solutions 2300 Clayton Rd. Suite 1435 Concord CA, 94520	Project: Palace Garage Project Number: [none] Project Manager: Matt Farris	Reported: 05/23/12 16:42
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**MW-2
T120802-02 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by SM 3500 Series Methods

Ferrous Iron	0.153	0.100	mg/l	1	2051422	05/14/12	05/15/12	EPA6010/SM 3500	
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Volatile Organic Compounds by EPA Method 8260B

Benzene	21	0.50	ug/l	1	2051512	05/15/12	05/18/12	EPA 8260B	
Toluene	0.65	0.50	"	"	"	"	"	"	
Ethylbenzene	23	0.50	"	"	"	"	"	"	
m,p-Xylene	6.9	1.0	"	"	"	"	"	"	
o-Xylene	0.87	0.50	"	"	"	"	"	"	
C6-C12 (GRO)	4300	50	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		101 %	83.5-119		"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		135 %	81-136		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		87.6 %	88.8-117		"	"	"	"	S-GC

Conventional Chemistry Parameters by APHA/EPA/ASTM Methods

Total Alkalinity	440	20	mg/l	1	2051112	05/11/12	05/11/12	EPA 310.1	
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Anions by EPA Method 300.0

Sulfate as SO4	21.4	0.500	mg/l	1	2051111	05/11/12	05/18/12	EPA 300.0	
Nitrate as NO3	13.4	0.500	"	"	"	"	"	"	

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Closure Solutions 2300 Clayton Rd. Suite 1435 Concord CA, 94520	Project: Palace Garage Project Number: [none] Project Manager: Matt Farris	Reported: 05/23/12 16:42
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**MW-3
T120802-03 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by SM 3500 Series Methods

Ferrous Iron	ND	0.100	mg/l	1	2051422	05/14/12	05/15/12	EPA6010/SM 3500	
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Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	0.50	ug/l	1	2051512	05/15/12	05/18/12	EPA 8260B	
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		104 %	83.5-119		"	"	"	"	
Surrogate: Dibromofluoromethane		114 %	81-136		"	"	"	"	
Surrogate: Toluene-d8		101 %	88.8-117		"	"	"	"	

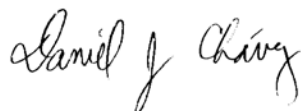
Conventional Chemistry Parameters by APHA/EPA/ASTM Methods

Total Alkalinity	310	20	mg/l	1	2051112	05/11/12	05/11/12	EPA 310.1	
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Anions by EPA Method 300.0

Sulfate as SO4	36.9	0.500	mg/l	1	2051111	05/11/12	05/18/12	EPA 300.0	
Nitrate as NO3	21.5	0.500	"	"	"	"	"	"	

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Daniel Chavez, Project Manager



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Closure Solutions 2300 Clayton Rd. Suite 1435 Concord CA, 94520	Project: Palace Garage Project Number: [none] Project Manager: Matt Farris	Reported: 05/23/12 16:42
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MW-4
T120802-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	0.50	ug/l	1	2051512	05/15/12	05/18/12	EPA 8260B	
Toluene	0.84	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
C6-C12 (GRO)	ND	50	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		92.6 %	83.5-119		"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		131 %	81-136		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		91.0 %	88.8-117		"	"	"	"	

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Daniel Chavez, Project Manager

Closure Solutions 2300 Clayton Rd. Suite 1435 Concord CA, 94520	Project: Palace Garage Project Number: [none] Project Manager: Matt Farris	Reported: 05/23/12 16:42
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**MW-5
T120802-05 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by SM 3500 Series Methods

Ferrous Iron	ND	0.100	mg/l	1	2051422	05/14/12	05/15/12	EPA6010/SM 3500	
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Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	0.50	ug/l	1	2051512	05/15/12	05/18/12	EPA 8260B	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
C6-C12 (GRO)	ND	50	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		102 %	83.5-119		"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		131 %	81-136		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		91.5 %	88.8-117		"	"	"	"	


Conventional Chemistry Parameters by APHA/EPA/ASTM Methods

Total Alkalinity	240	20	mg/l	1	2051112	05/11/12	05/11/12	EPA 310.1	
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Anions by EPA Method 300.0

Sulfate as SO4	49.0	0.500	mg/l	1	2051111	05/11/12	05/18/12	EPA 300.0	
Nitrate as NO3	44.0	0.500	"	"	"	"	"	"	

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Closure Solutions 2300 Clayton Rd. Suite 1435 Concord CA, 94520	Project: Palace Garage Project Number: [none] Project Manager: Matt Farris	Reported: 05/23/12 16:42
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MW-6
T120802-06 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Benzene	170	12	ug/l	25	2051512	05/15/12	05/18/12	EPA 8260B	
Toluene	310	2.5	"	5	"	"	"	"	
Ethylbenzene	1700	12	"	25	"	"	"	"	
m,p-Xylene	3300	25	"	"	"	"	"	"	
o-Xylene	620	12	"	"	"	"	"	"	
C6-C12 (GRO)	34000	50	"	1	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		91.8 %		83.5-119	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		126 %		81-136	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		89.9 %		88.8-117	"	"	"	"	

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Closure Solutions 2300 Clayton Rd. Suite 1435 Concord CA, 94520	Project: Palace Garage Project Number: [none] Project Manager: Matt Farris	Reported: 05/23/12 16:42
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Metals by SM 3500 Series Methods - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2051422 - EPA 3010A										
Blank (2051422-BLK1)				Prepared: 05/14/12 Analyzed: 05/15/12						
Ferrous Iron	ND	0.100	mg/l							
LCS (2051422-BS1)				Prepared: 05/14/12 Analyzed: 05/15/12						
Ferrous Iron	0.441	0.100	mg/l	0.500		88.2	80-120			
Matrix Spike (2051422-MS1)				Source: T120802-03 Prepared: 05/14/12 Analyzed: 05/15/12						
Ferrous Iron	0.362	0.100	mg/l	0.500	0.0681	58.9	75-125			QM-05
Matrix Spike Dup (2051422-MSD1)				Source: T120802-03 Prepared: 05/14/12 Analyzed: 05/15/12						
Ferrous Iron	0.373	0.100	mg/l	0.500	0.0681	61.0	75-125	2.99	20	QM-05

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Closure Solutions
 2300 Clayton Rd. Suite 1435
 Concord CA, 94520

Project: Palace Garage
 Project Number: [none]
 Project Manager: Matt Farris

Reported:
 05/23/12 16:42

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2051512 - EPA 5030 GCMS

Blank (2051512-BLK1)

Prepared: 05/15/12 Analyzed: 05/17/12

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	8.69		"	8.00		109	83.5-119			
Surrogate: Dibromofluoromethane	10.2		"	8.00		128	81-136			
Surrogate: Toluene-d8	8.14		"	8.00		102	88.8-117			

LCS (2051512-BS1)

Prepared: 05/15/12 Analyzed: 05/18/12

Benzene	20.8	0.50	ug/l	20.0		104	75-125			
Toluene	17.1	0.50	"	20.0		85.4	75-125			
Surrogate: 4-Bromofluorobenzene	7.24		"	8.00		90.5	83.5-119			
Surrogate: Dibromofluoromethane	9.96		"	8.00		124	81-136			
Surrogate: Toluene-d8	7.29		"	8.00		91.1	88.8-117			

Matrix Spike (2051512-MS1)

Source: T120817-01

Prepared: 05/15/12 Analyzed: 05/18/12

Benzene	371	0.50	ug/l	20.0	454	NR	75-125			QM-05
Toluene	357	0.50	"	20.0	246	554	75-125			QM-05
Surrogate: 4-Bromofluorobenzene	7.38		"	8.00		92.2	83.5-119			
Surrogate: Dibromofluoromethane	9.09		"	8.00		114	81-136			
Surrogate: Toluene-d8	7.07		"	8.00		88.4	88.8-117			S-GC

Matrix Spike Dup (2051512-MSD1)

Source: T120817-01

Prepared: 05/15/12 Analyzed: 05/18/12

Benzene	333	0.50	ug/l	20.0	454	NR	75-125	10.8	20	QM-05
Toluene	334	0.50	"	20.0	246	438	75-125	6.69	20	QM-05
Surrogate: 4-Bromofluorobenzene	7.55		"	8.00		94.4	83.5-119			
Surrogate: Dibromofluoromethane	9.08		"	8.00		114	81-136			
Surrogate: Toluene-d8	7.21		"	8.00		90.1	88.8-117			

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Closure Solutions 2300 Clayton Rd. Suite 1435 Concord CA, 94520	Project: Palace Garage Project Number: [none] Project Manager: Matt Farris	Reported: 05/23/12 16:42
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Conventional Chemistry Parameters by APHA/EPA/ASTM Methods - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2051112 - General Preparation

Duplicate (2051112-DUP1)	Source: T120802-02		Prepared & Analyzed: 05/11/12							
Total Alkalinity	425	20	mg/l		435			2.33	25	

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Closure Solutions 2300 Clayton Rd. Suite 1435 Concord CA, 94520	Project: Palace Garage Project Number: [none] Project Manager: Matt Farris	Reported: 05/23/12 16:42
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Anions by EPA Method 300.0 - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2051111 - General Preparation

Blank (2051111-BLK1)				Prepared: 05/11/12 Analyzed: 05/18/12						
Fluoride	ND	0.500	mg/l							
Chloride	ND	0.500	"							
Nitrite as NO2	ND	0.500	"							
Sulfate as SO4	ND	0.500	"							
Nitrate as NO3	ND	0.500	"							

LCS (2051111-BS1)				Prepared: 05/11/12 Analyzed: 05/18/12						
Chloride	9.72	0.500	mg/l	10.0		97.2	80-120			
Sulfate as SO4	10.3	0.500	"	10.0		103	80-120			
Nitrate as NO3	10.9	0.500	"	11.1		98.0	80-120			

Matrix Spike (2051111-MS1)				Source: T120799-01 Prepared: 05/11/12 Analyzed: 05/18/12						
Chloride	14.5	0.500	mg/l	10.0	4.53	99.4	80-120			
Sulfate as SO4	20.0	0.500	"	10.0		200	80-120			QM-05
Nitrate as NO3	19.0	0.500	"	11.1	7.22	106	80-120			

Matrix Spike Dup (2051111-MSD1)				Source: T120799-01 Prepared: 05/11/12 Analyzed: 05/18/12						
Chloride	14.2	0.500	mg/l	10.0	4.53	96.8	80-120	1.78	20	
Sulfate as SO4	19.7	0.500	"	10.0		197	80-120	1.42	20	QM-05
Nitrate as NO3	18.6	0.500	"	11.1	7.22	103	80-120	1.81	20	

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Daniel Chavez, Project Manager

Closure Solutions
2300 Clayton Rd. Suite 1435
Concord CA, 94520

Project: Palace Garage
Project Number: [none]
Project Manager: Matt Farris

Reported:
05/23/12 16:42

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).
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to possible matrix interference. The LCS was within acceptance criteria. The data is acceptable as no negative impact on data is expected.
- 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.



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Daniel Chavez, Project Manager

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

Chain of Custody Record

Client: CLOSURE SOLUTIONS INC
 Address: 2300 Clayton Rd., SL1435, CONCORD, CA
 Phone: 925-808-9290 Fax: _____
 Project Manager: ~~XXXXXXXXXXXX~~ MATT FARRIS

Date: 5/8/12 Page: 1 Of 1
 Project Name: PALACE GARAGE
 Collector: K. Dolan Client Project #: _____
 Batch #: 20 2012 EDF #: T0600101043
2120802

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260 TPH, g/BTEX	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	Nitrate, Sulfate 300	Ferrous, Iron 6010	Alkalinity 310.1	Laboratory ID #	Comments/Preservative	Total # of containers
MW-1	5/9/12	1505	GN	30LIS w/HCC	X								X	X	X	X	01	NO Bio parameters KD	
MW-2	↓	1440	↓	↓	↓								X	X	X	X	02	+ 1 500ml, poly	
MW-3	↓	1345	↓	↓	↓								X	X	X	X	03	" "	
MW-4	↓	1410/130	↓	↓	↓								X	X	X	X	04	" "	
MW-5	↓	1411	↓	↓	↓								X	X	X	X	05	" "	
MW-6	↓	1539	↓	↓	↓								X	X	X	X	06	" "	

STD. TAT
5/11/12

Relinquished by: (signature) <u>[Signature]</u>	Date / Time <u>5/10/12 10:00</u>	Received by: (signature) <u>[Signature]</u>	Date / Time <u>5-10-12 10:25</u>	Total # of containers	<u>21</u>	Notes results to: BBUSCH@closureSolutions.com KDolan@closureSolutions.com MFarris@closureSolutions.com
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Chain of Custody seals Y/N/NA	<u>Y</u>	
Relinquished by: (signature) <u>G80</u>	Date / Time <u>5/11/12 10:05</u>	Received by: (signature) <u>[Signature]</u>	Date / Time <u>5/11/12 10:05</u>	Seals intact? Y/N/NA	<u>Y</u>	
				Received good condition/cold	<u>10.5</u>	Turn around time: <u>STD</u>

Sample disposal Instructions: Disposal @ \$2.00 each _____ Return to client _____ Pickup _____

SAMPLE RECEIVING REVIEW SHEET

BATCH # 120302

Client Name: Closure Solutions

Project: Palace Garage

Received by: Brian

Date/Time Received: 5/11/12 10:05

Delivered by : Client SunStar Courier GSO FedEx Other _____

Total number of coolers received 1 Temp criteria = 6°C > 0°C (no frozen containers)

Temperature: cooler #1 10.7 °C +/- the CF (- 0.2°C) = 10.5 °C corrected temperature

cooler #2 _____ °C +/- the CF (- 0.2°C) = _____ °C corrected temperature

cooler #3 _____ °C +/- the CF (- 0.2°C) = _____ °C corrected temperature

Samples outside temp. but received on ice, w/in 6 hours of final sampling. Yes No* N/A

Custody Seals Intact on Cooler/Sample Yes No* N/A

Sample Containers Intact Yes No*

Sample labels match COC ID's Yes No*

Total number of containers received match COC Yes No*

Proper containers received for analyses requested on COC Yes No*

Proper preservative indicated on COC/containers for analyses requested Yes No* N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times. Yes No*

* Complete Non-Conformance Receiving Sheet if checked

Cooler/Sample Review - Initials and date KS 5/11/12

Comments:
