

Mr. Lee Douglas
Douglas Parking Company
1721 Webster Street
Oakland, California 94612

RECEIVED

By Alameda County Environmental Health 8:27 am, Jun 23, 2017

Ms. Barbara Jakub
Alameda County Environmental Health
Department of Environmental Health
1131 Harbor Bay Parkway, 2nd Floor
Alameda, CA 94502-6577

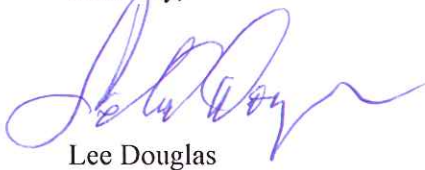
Re: Douglas Parking Company
1721 Webster Street
Oakland, California
ACEH File No. 129

Dear Ms. Jakub:

I, Mr. Lee Douglas, have retained Pangea Environmental Services, Inc. (Pangea) as the environmental consultant for the project referenced above. Pangea is submitting the attached report on my behalf.

I declare, under penalty of perjury, that the information and/or recommendations contained in the attached report are true and correct to the best of my knowledge.

Sincerely,



Lee Douglas



June 19, 2017

VIA ALAMEDA COUNTY FTP SITE

Ms. Karel Detterman
Alameda County Environmental Health
1131 Harbor Bay Parkway, 2nd Floor
Alameda, California 94502

Re: **Groundwater Monitoring Report – First Half 2017**
Douglas Parking Company
1721 Webster Street
Oakland, California
ACEH File No. 129

Dear Ms. Detterman:

On behalf of the Douglas Parking Company, Pangea Environmental Services, Inc. has prepared this *Groundwater Monitoring Report – First Half 2017* for the above referenced site. The report describes groundwater monitoring at the site.

If you have any questions, please call me at (510) 435-8664.

Sincerely,
Pangea Environmental Services, Inc.

A handwritten signature in blue ink, appearing to read "Bob Clark-Riddell".

Bob Clark-Riddell, P.E.
Principal Engineer

Attachment: *Groundwater Monitoring Report – First Half 2017*

cc: Mr. Lee Douglas, Douglas Parking Company, 1721 Webster Street, Oakland, California 94612
SWRCB Geotracker Database (electronic copy)

PANGEA Environmental Services, Inc.

1710 Franklin Street, Suite 200, Oakland, CA 94612 Telephone 510.836.3700 Facsimile 510.836.3709
www.pangeaenv.com



GROUNDWATER MONITORING REPORT - FIRST HALF 2017

**Douglas Parking Company
1721 Webster Street
Oakland, California
File No. 4070**

June 19, 2017

Prepared for:

Mr. Lee Douglas
1721 Webster Street
Oakland, California 94612

Prepared by:

Pangea Environmental Services, Inc.
1710 Franklin Street, Suite 200
Oakland, California 94612

Written by:



Morgan Gillies
Project Manager

Bob Clark-Riddell, P.E.
Principal Engineer

PANGEA Environmental Services, Inc.

INTRODUCTION

On behalf of Douglas Parking Company, Pangea Environmental Services, Inc. (Pangea), performed groundwater monitoring and sampling during this half year at the subject site (Figure 1). Current groundwater analytical results and elevation data are shown on Figure 2. Current and historical groundwater data are summarized on Table 1. Site remediation data is summarized on Table 2.

SITE BACKGROUND

The site is currently being utilized as a parking garage, and is located between 17th and 19th Streets in downtown Oakland, California, approximately four miles east of San Francisco Bay and one quarter of a mile west of Lake Merritt (Figure 1). The site is relatively flat with an elevation of approximately 30 feet (ft) above mean sea level (msl).

Several former underground storage tank (UST) sites are located close to the site, including Prentiss Properties to the northeast at 1750 Webster Street, a former gas station to the east at 1700 Webster, and a former Chevron service station which is located approximately 400 feet to the southwest on the corner of 17th Street and Harrison Street.

UST Removal and Initial Assessment and Remediation

On August 3 and 6, 1992, Parker Environmental Services removed one 1,000-gallon and two 500-gallon gasoline underground storage tanks (USTs) from the site. Up to 1,500 milligrams per kilogram (mg/kg) total petroleum hydrocarbons as gasoline (TPHg) and up to 12 mg/kg benzene were detected in the soil samples collected from the UST excavation.

Several investigations have been completed at the site. On July 8 and September 8, 1994, Gen Tech/Piers Environmental, Inc. (Gen Tech) of San Jose, California drilled six exploratory borings and installed three groundwater monitoring wells (MW-1 through MW-3). In February and May 1996, Cambria Environmental Technology (Cambria) of Emeryville, California advanced seven geoprobe soil borings and installed two groundwater monitoring wells (MW-4 and MW-5). On August 8, 2000, *Conduit Study and File Review Report* was submitted by Cambria Environmental Technology. The report provided significant information about offsite hydrocarbon impact and offsite sources, and concluded that there were no identified conduits for contaminant migration in groundwater. On June 27, 2003 Cambria installed two additional offsite monitoring wells (MW-6 and MW-7) to facilitate additional plume delineation.

Initial limited site remediation commenced in 1998. In January 1998, Cambria installed ORC socks in well MW-2 to enhance the natural attenuation of dissolved-phase hydrocarbons. Dissolved oxygen (DO) concentrations temporarily increased in well MW-2 following the ORC sock installation. In February and

March 1999, a total of 120 gallons of 7.5% hydrogen peroxide solution was added to monitoring wells MW-2 and MW-3 to oxidize hydrocarbons and to increase DO levels to enhance biodegradation of dissolved-phase hydrocarbons. The hydrogen peroxide *temporarily* increased groundwater DO levels, but hydrocarbon concentrations remained at elevated levels.

On March 4, 2003, Cambria installed a co-axial air sparging/soil vapor extraction well (SV-1/AS-1) and two angled air sparging wells (AS-2 and AS-3) to approximately 30 ft bgs (Figure 3). The wells were installed to facilitate feasibility testing and future site remediation. Site remediation via soil vapor extraction and air sparging began in October 2007. To improve system performance and further evaluate site conditions, Pangea submitted an *Investigation and Remediation Workplan* dated March 5, 2009, which proposed additional investigation, remediation system expansion, and evaluation of groundwater geochemistry.

On November 19, 2010, ACEH issued a letter requesting a cross section, additional information regarding a potential offsite source and a preferential pathway survey. In December 2010, Pangea informed the ACEH that significant information about the offsite hydrocarbon impact was presented in the August 8, 2000 *Conduit Study and File Review Report* prepared by Cambria. In December 2010, the UST Cleanup Fund prepared a 5 Year Review that recommended a site conceptual model (SCM), risk assessment, and sensitive receptor survey to help facilitate selection of a remediation technique. In March 2011, Pangea provided information requested by the ACEH and proposed remediation and assessment tasks to help facilitate regulatory case closure. In a letter dated June 17, 2011, ACEH requested a site conceptual model with a preferential pathway evaluation. The UST Cleanup Fund 5-Year Review of March 12, 2012 also requested an SCM prior to any system modification. Pangea submitted a *Sensitive Receptor Survey, Conduit Study and Site Conceptual Model* dated March 26, 2012. In a letter dated December 21, 2012, ACEH requested a workplan to evaluate vapor intrusion and to investigate secondary source near well MW-2. Pangea submitted a *Workplan for Additional Assessment and Soil Gas Sampling* dated April 4, 2013. Following a meeting with ACEH on May 28, 2013, Pangea submitted a *Revised Data Gap Workplan* dated July 25, 2013.

Soil Vapor Extraction and Air Sparge Remediation

A SVE system operated from October 2007 to October 2010 with periodic cycling for rebound testing. The soil vapor extraction (SVE) remediation system consisted of a blower that extracted soil vapor from well SVE-1. Extracted vapors were routed through a moisture separator then treated by two 2,000-lb canisters of granular activated carbon plumbed in series. The treated vapor was discharged to the atmosphere in accordance with Bay Area Air Quality Management District (BAAQMD) requirements. The air sparging (AS) system consisted of a compressor for injecting air into wells AS-1, AS-2 and/or AS-3. Injection into AS wells was controlled by timer-activated solenoid valves. Wells SVE-1 and AS-1 are constructed as vertical co-axial wells, with angled wells AS-2 and AS-3 located in the same vault. A cross section of the remediation wells is included as Figure 7. The remediation system layout is shown on Figure 8.

By November 23, 2010, the SVE system operated for a total of about 19,396 hours (approximately 808 days) and the system removed a total of approximately 3,212 lbs TPHg and 6.9 lbs benzene. The AS system operated from November 2007 to April 2010, when the AS compressor broke down. From August 2008 to April 2010, air sparge wells AS-1 and AS-3 were disconnected to focus air sparging on well AS-2 to target hydrocarbons in nearby key monitoring well MW-2. System operation and performance data is summarized on Table 2.

At client request, on August 20 and 21 and December 7, 2015, Pangea removed the SVE/AS equipment and enclosure that occupied valuable space at the facility.

Additional Site Assessment and Groundwater Monitoring

Following approval of the workplan, Pangea installed two confirmation soil borings (CB-1 and CB-2) near the former UST excavation areas and three soil gas probes (SS-1 through SS-3). Pangea detailed the findings of this data gap investigation in the *Data Gap Site Assessment Report* dated January 22, 2014. Included in the report was an updated SCM in tabular format.

Pangea submitted a *Data Gap Workplan* (Workplan) dated June 21, 2016 as requested in an ACEH email dated April 20, 2016. The Workplan was approved in an email ACEH dated August 22, 2016. The Workplan included a sensitive receptor survey, and a workplan for subslab/soil gas sampling. The goal for implementation of this Workplan is to facilitate regulatory case closure in the very near future. Pangea completed the data gap sampling in September 2016 and a data gap assessment report will be submitted separately.

In a September 8, 2016, 2016 letter, ACDEH and the San Francisco Bay Regional Water Quality Control Board (SFBRWQCB) requested a groundwater monitoring and sampling event at 1700, 1710, 1721, and 1750 Webster Street properties to provide a “snapshot” of the groundwater flow direction and groundwater quality at the subject site and nearby properties. This sampling event on October 12, 2016 included groundwater collection from three key wells (MW-2, MW-3 and MW-6) at the subject site. This sampling event was conducted by GeoDesign Inc. and is documented in the *Groundwater Monitoring Report: October 2016* dated November 14, 2016, available on Geotracker. Site data from this monitoring event is summarized on Table 1.

GROUNDWATER MONITORING AND SAMPLING

On January 20, 2017, Pangea coordinated groundwater monitoring and sampling at the site. All accessible program monitoring wells were gauged for depth to water. Following the sampling protocol presented in Appendix A, groundwater samples were collected from select site monitoring wells. Wells MW-4 and MW-7 were apparently paved over during street resurfacing work and were not accessible.

Before well purging, dissolved oxygen (DO) was measured in each well. DO was measured by lowering a downwell sensor to the approximate middle of the water column, and allowing the reading to stabilize during gentle height adjustment. Prior to sample collection approximately three casing volumes of water were purged using disposable bailers, an electric submersible pump or new polyethylene tubing with a check valve. During well purging field technicians measured pH, temperature, oxygen reduction potential (ORP) and conductivity. A groundwater sample was collected from each well with a disposable bailer and decanted into the appropriate containers supplied by the analytical laboratory. Groundwater samples were labeled, placed in protective plastic bags, and stored on crushed ice at or below 4° C. All samples were transported under chain-of-custody to the State-certified analytical laboratory. Purge water was stored onsite in DOT-approved 55-gallon drums. Field data sheets are presented as Appendix B.

Monitoring Results

Groundwater elevation and analytical data are described below and summarized on Table 1 and Figure 2. Groundwater samples were analyzed for total petroleum hydrocarbons as gasoline (TPHg) by modified EPA Method 8015C; and benzene, toluene, ethylbenzene and xylenes (BTEX), and methyl tertiary butyl ether (MTBE) by EPA Method 8021B. Samples were analyzed by McCampbell Analytical, Inc. of Pittsburg, California, a State-certified laboratory. The laboratory analytical report is included as Appendix C.

Groundwater Flow Direction

Based on depth-to-water measurements collected on January 20, 2017, groundwater beneath the site flowed *northwards* (Figure 2). The groundwater depth measurements and inferred flow direction during this event are generally consistent with historical site conditions. Groundwater depths at the site have historically ranged from approximately 14 to 23 ft below ground surface (bgs) (Table 1).

Hydrocarbon and MTBE Distribution in Groundwater

TPHg, benzene and MTBE concentrations detected in site groundwater during this monitoring event are shown on Figure 2. The maximum TPHg and benzene concentrations were detected in well MW-6 at 13,000 µg/L and 120 µg/L, respectively.

TPHg and benzene concentration trends in key source area wells MW-2 and MW-3 are graphed on Figure 3. Benzene concentrations have dramatically decreased in source area well MW-2 since the commencement of SVE/AS remediation in October 2007. TPHg concentrations remain elevated but exhibit a long term declining trend in wells MW-2 and MW-3. As requested during a May 28, 2013 meeting at the ACEH office, TPHg and benzene concentration trends for key offsite wells (MW-4 and MW-6) and key remediation wells (AS-1 and AS-2) are graphed on Figures 4 and 5, respectively.

MTBE was detected in site well MW-6 at a concentration of 260 µg/L. Prior to the current groundwater monitoring event, MTBE was detected in site groundwater on August 3, 2016 (450 µg/L in well MW-6) and July 21, 2003 (48 µg/L in well MW-3 by EPA Method 8020). However, the July 2003 result was interpreted to be a false positive based on confirmation testing using EPA Method 8260. Since the tank was removed in 1992 and because of the lack of confirmed detectable historical MTBE, MTBE is not a compound of concern at this site. Based on the lack of historical MTBE concentrations on site, the detected concentrations in groundwater from well MW-6 are likely from an offsite source.

OTHER SITE ACTIVITIES

‘Snapshot’ Groundwater Monitoring at Several Properties

In a September 8, 2016, 2016 letter, ACDEH and the San Francisco Bay Regional Water Quality Control Board (SFBRWQCB) requested a groundwater monitoring and sampling event at 1700, 1710, 1721, and 1750 Webster Street properties to provide a “snapshot” of the groundwater flow direction and groundwater quality at the subject site and nearby properties. This sampling event on October 12, 2016 included groundwater collection from three key wells (MW-2, MW-3 and MW-6) at the subject site. These site wells were gauged for depth to water, and groundwater samples were analyzed for TPH (full scan) and VOCs including BTEX and MTBE. This sampling event was conducted by GeoDesign Inc. and is documented in the *Groundwater Monitoring Report: October 2016* dated November 14, 2016. Dissolved-phase petroleum hydrocarbon concentrations in key site wells (MW-2, MW-3 and MW-6) were generally consistent with historical sampling data.

Semi-Annual Groundwater Monitoring

Unless otherwise directed, Pangea will continue semi-annual groundwater monitoring at the site in accordance with the approved monitoring program shown in Appendix A. All monitoring wells will be gauged for depth to water. Groundwater samples from program wells will be analyzed for TPHg, BTEX and MTBE by EPA Method 8015Cm/8021B.

Subslab and Soil Gas Sampling

Pangea has completed the assessment work scope specified in the *Data Gap Workplan* (Workplan) dated June 21, 2016. To further evaluate shallow soil gas conditions, the work scope included the installation and sampling of two soil gas probes (SG-1 and SG-2), and soil gas sampling from two existing subslab vapor probes (SS-2 and SS-3). Soil/subslab gas sampling locations are shown on Figure 6. Investigation procedures and results are described in Pangea’s *Soil Gas Sampling Report and Updated SCM* dated June 13, 2017.

ELECTRONIC REPORTING

This report will be submitted to Alameda County Environmental Health via upload to the County's ftp site. Applicable data, maps, and reports for groundwater monitoring and other activities will be uploaded to the State Water Resource Control Board's Geotracker database. As requested, report hard copies will no longer be provided to local agencies.

REFERENCES

CalEPA/DTSC, 2011, (CalEPA, 2011) *Vapor Intrusion Mitigation Advisory (VIMA)*, October.

CalEPA/DTSC, 2015, (CalEPA, 2015) *Advisory – Active Soil Gas Investigations*, July.

ATTACHMENTS

Figure 1 – Vicinity Map

Figure 2 – Groundwater Elevations and Hydrocarbon Concentration Map

Figure 3 – TPHg and Benzene Trends in Groundwater in Key Site Wells

Figure 4 – TPHg and Benzene Trends in Groundwater in Key Offsite Wells

Figure 5 – TPHg and Benzene Trends in Groundwater in Key Remediation Wells

Figure 6 – Boring and Subslab Probe Location Map

Figure 7 – Cross Section of Remediation Wells

Figure 8 – Remediation System Layout

Table 1 – Groundwater Elevation and Analytical Data

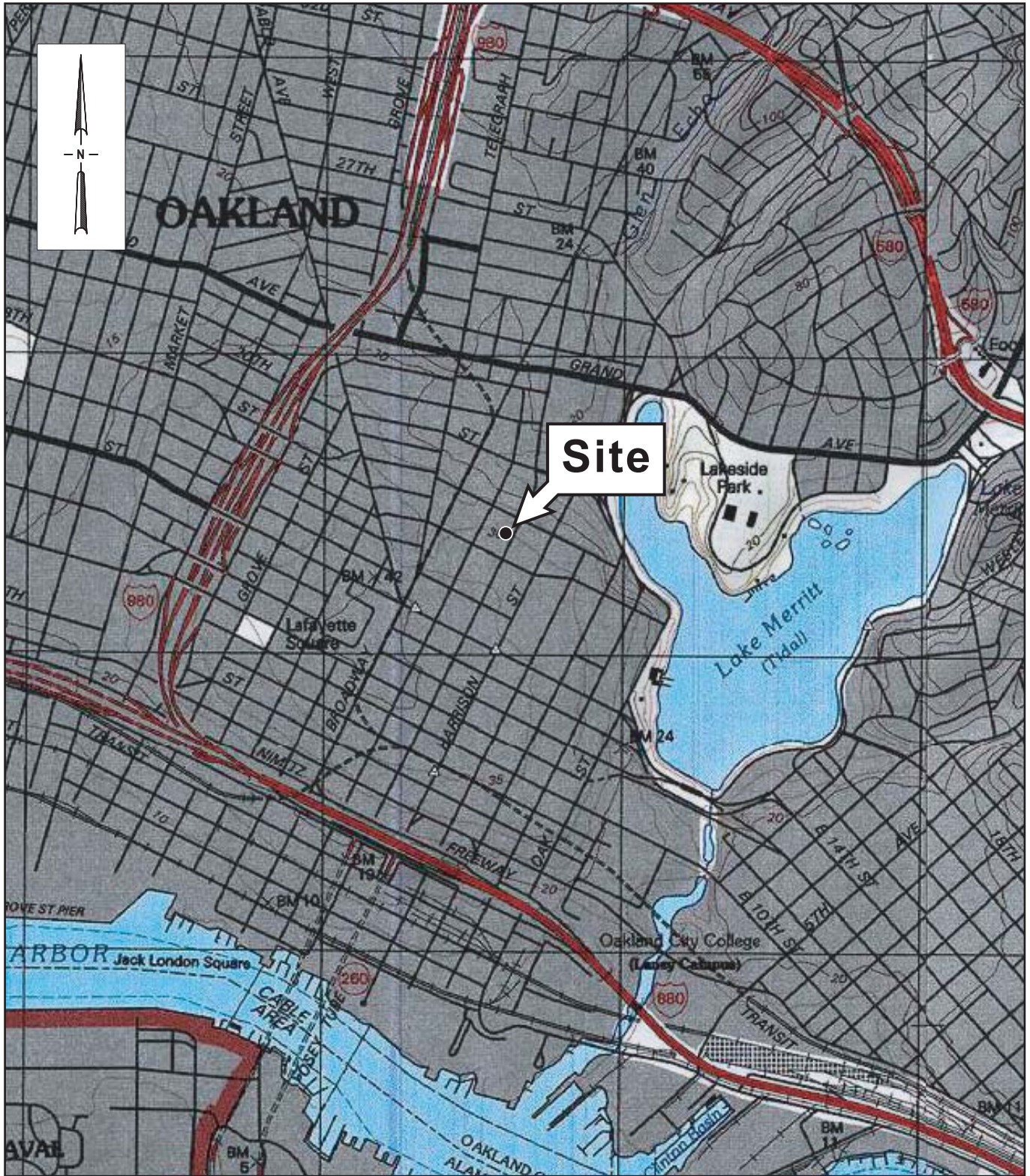
Table 2 – Subslab Gas Analytical Data

Table 3 – SVE System Performance Summary

Appendix A – Groundwater Monitoring Program

Appendix B – Groundwater Monitoring Field Data Sheets

Appendix C – Laboratory Analytical Report



SOURCE: TOPOI MAPS



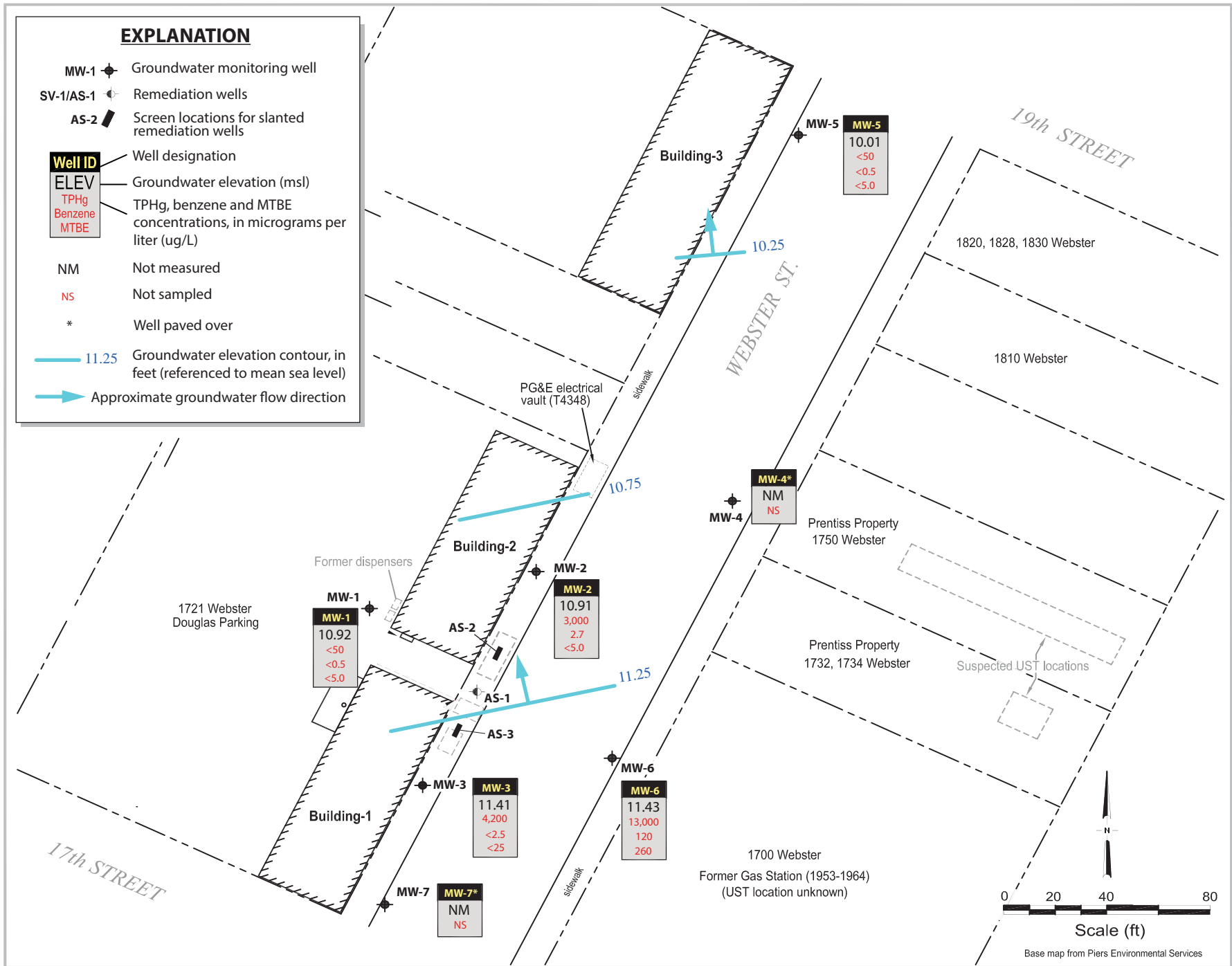
SCALE : 1" = 1/4 MILE

Figure 1

Douglas Parking Facility
 1721 Webster Street
 Oakland, California



Vicinity Map



Douglas Parking
1721 Webster Street
Oakland, CA



Groundwater Elevations and
Hydrocarbon Concentration Map
January 20, 2017

FIGURE
2

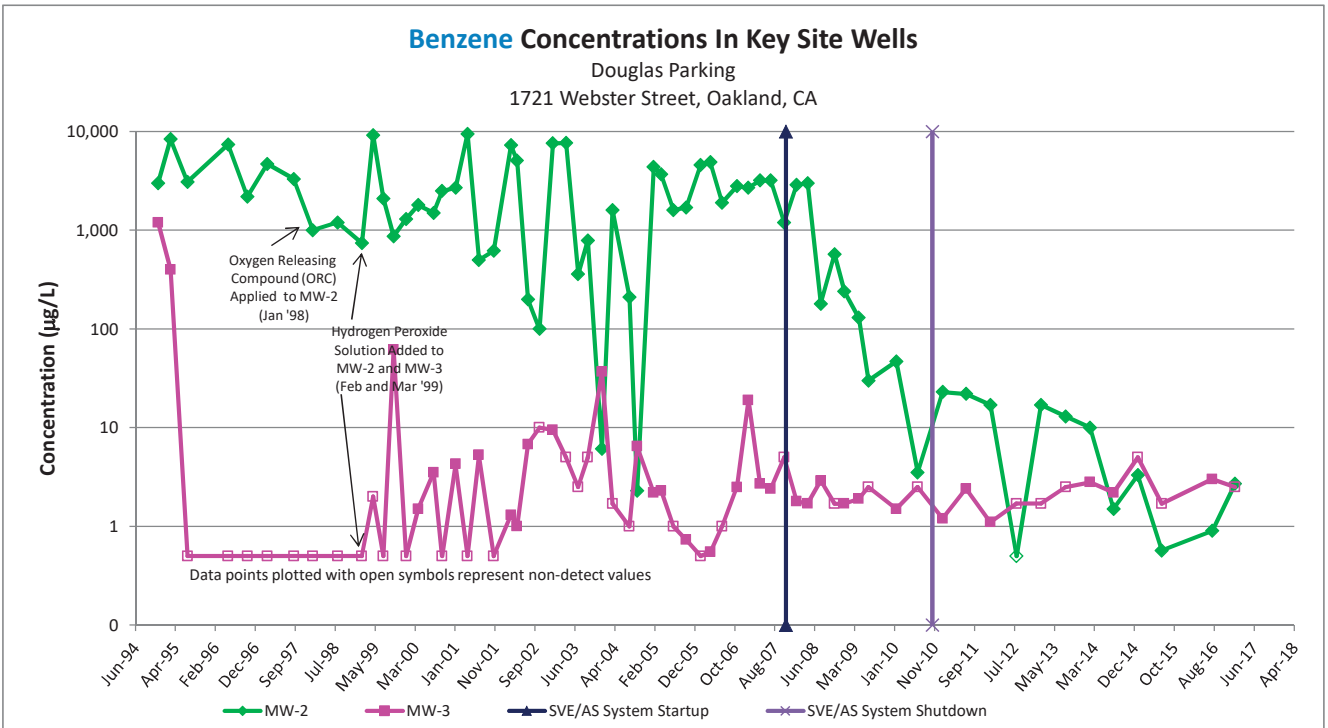
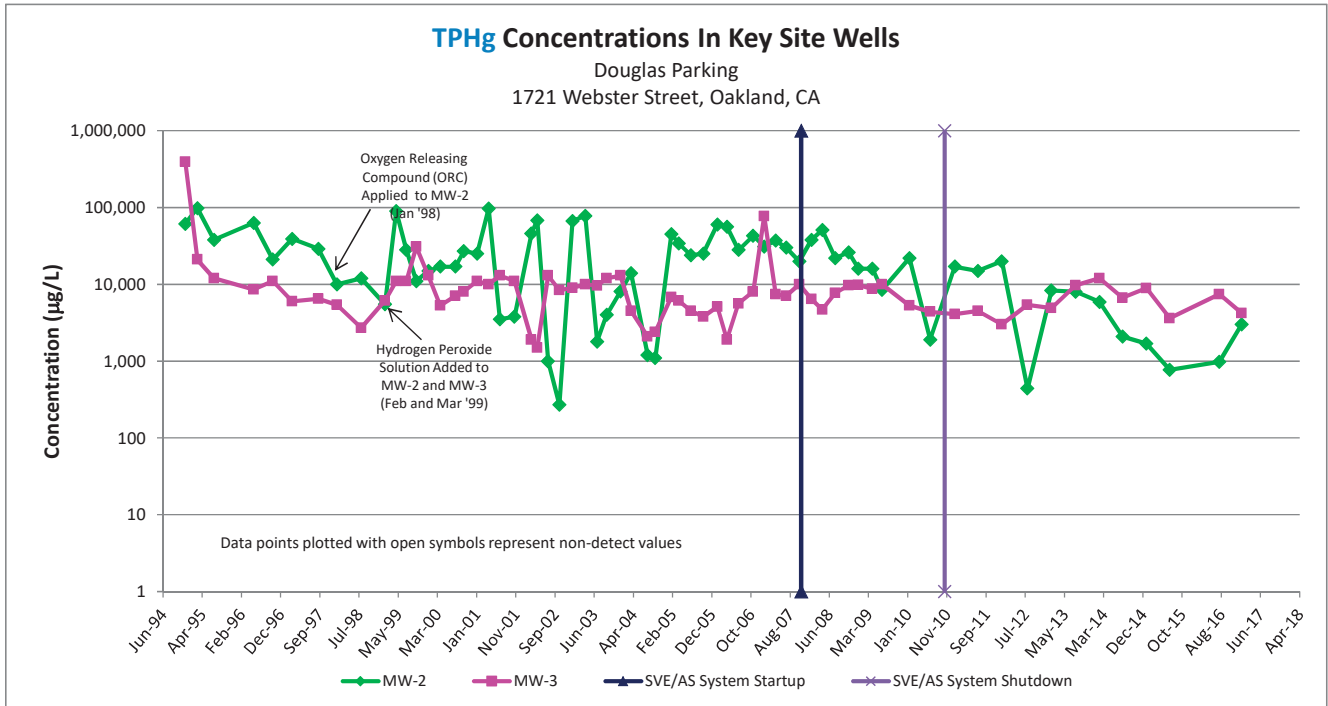


Figure 3 - TPHg and Benzene Trends in Key Onsite Wells

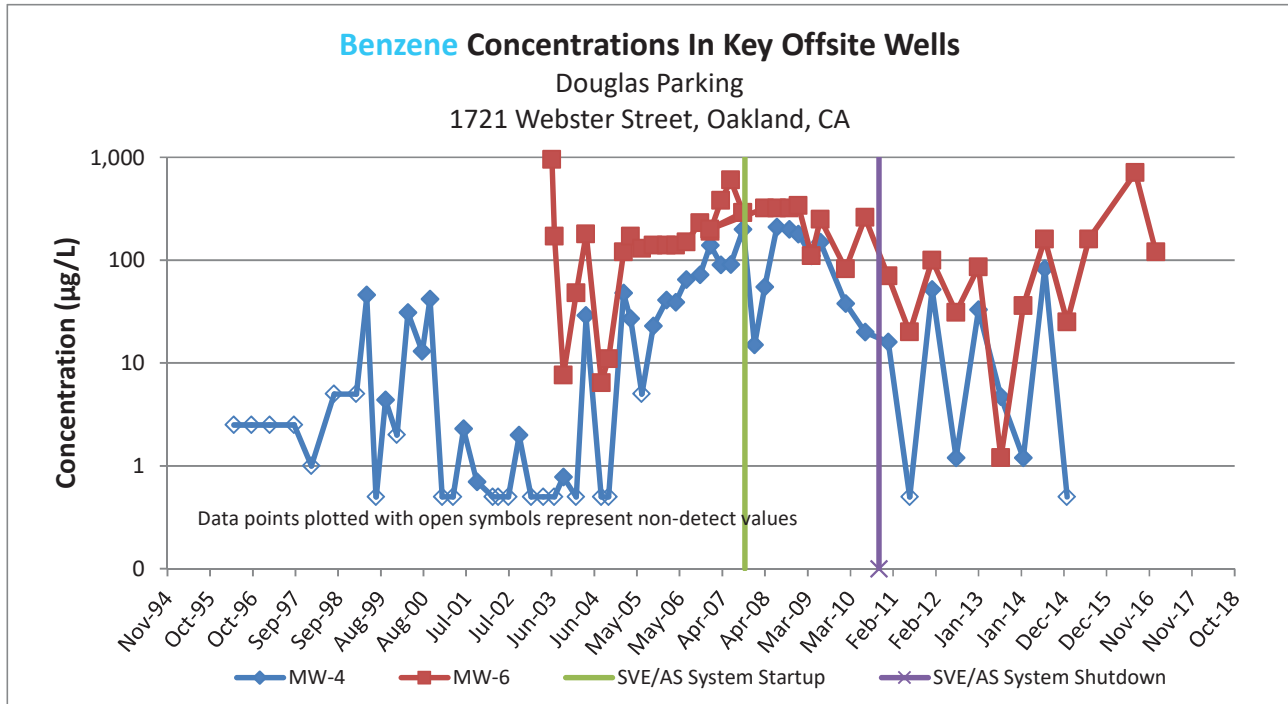
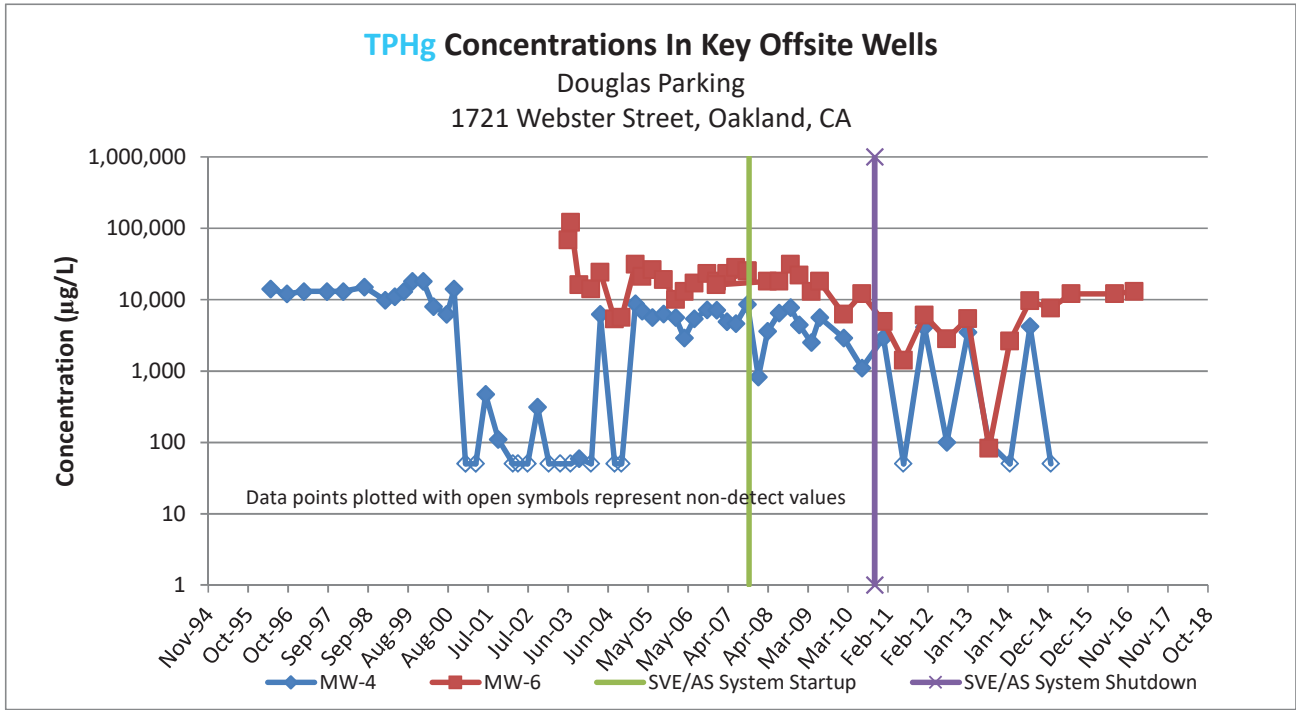


Figure 4 - TPHg and Benzene Trends in Key Offsite Wells

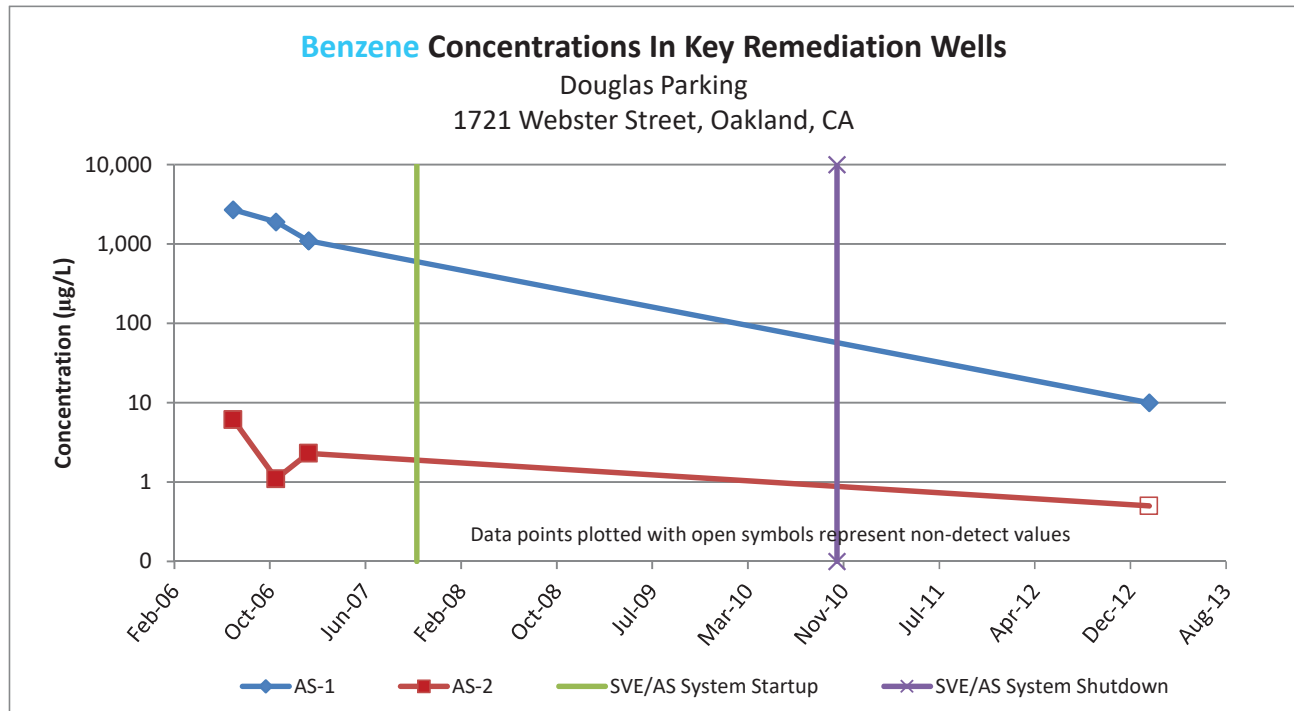
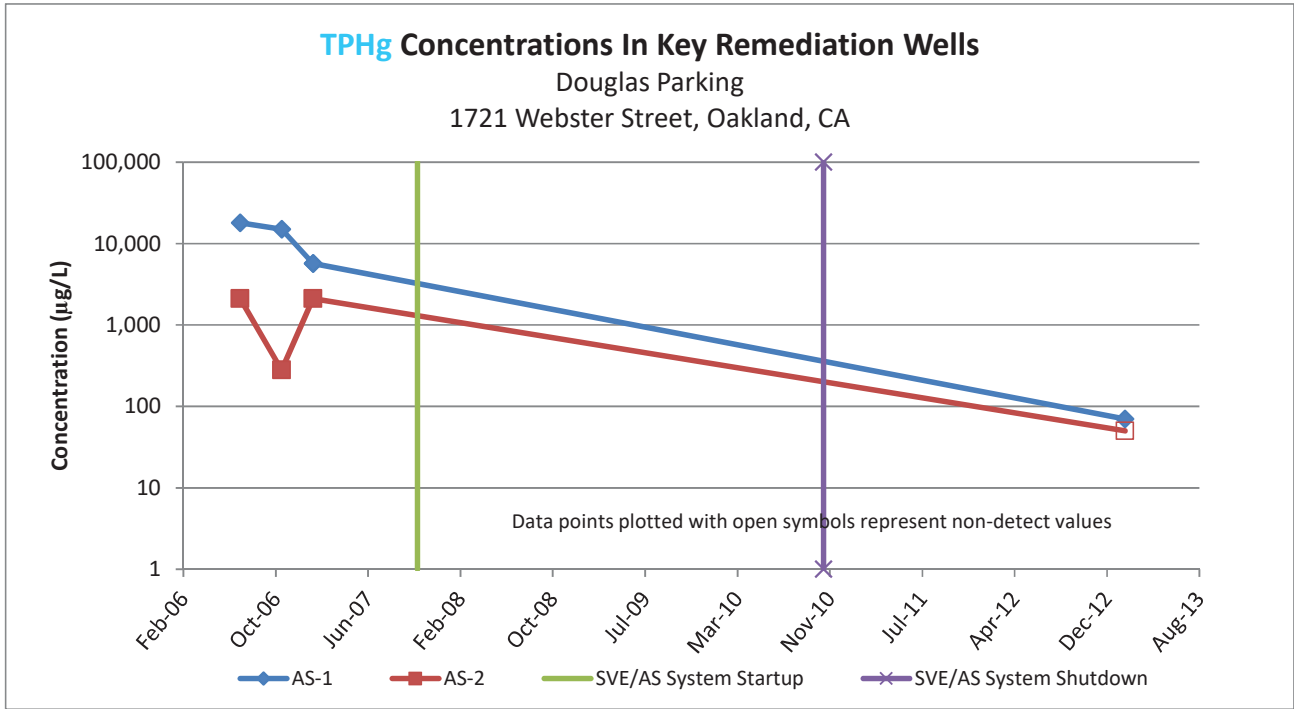
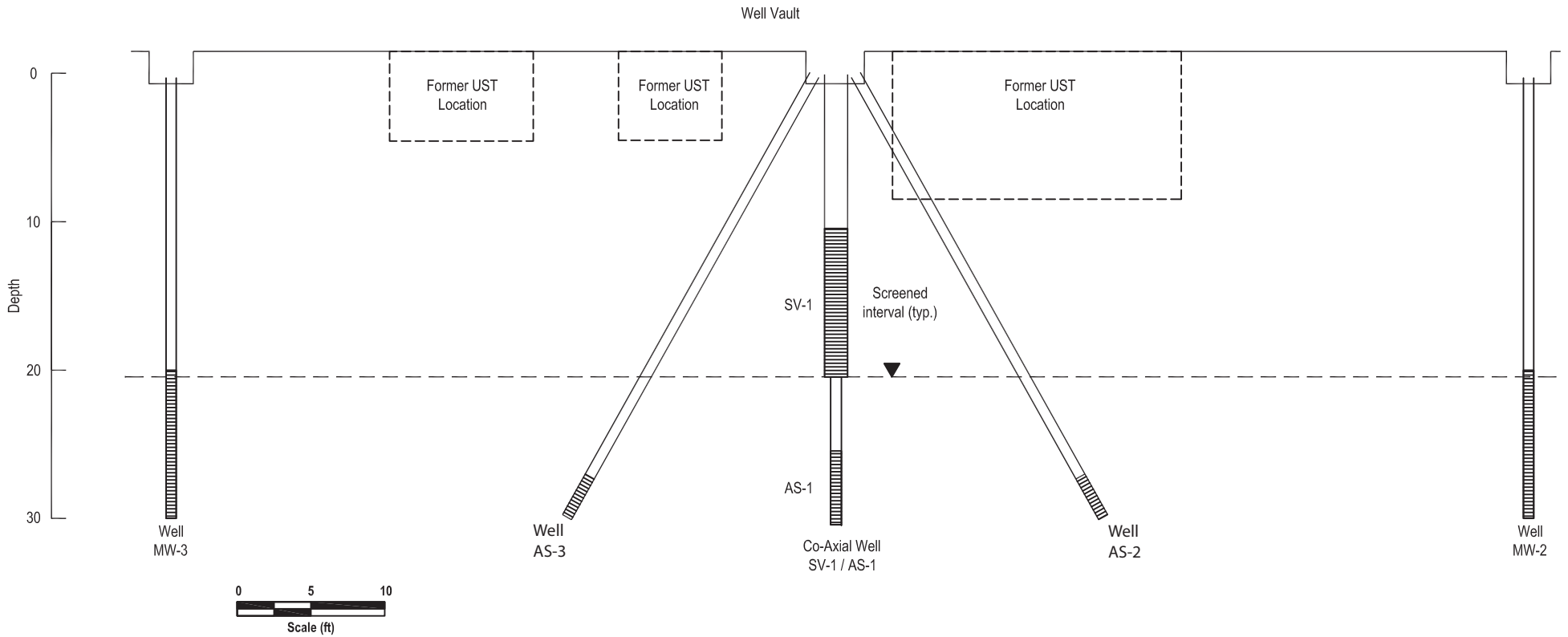


Figure 5 - TPHg and Benzene Trends in Key Remediation Wells



Figure

6

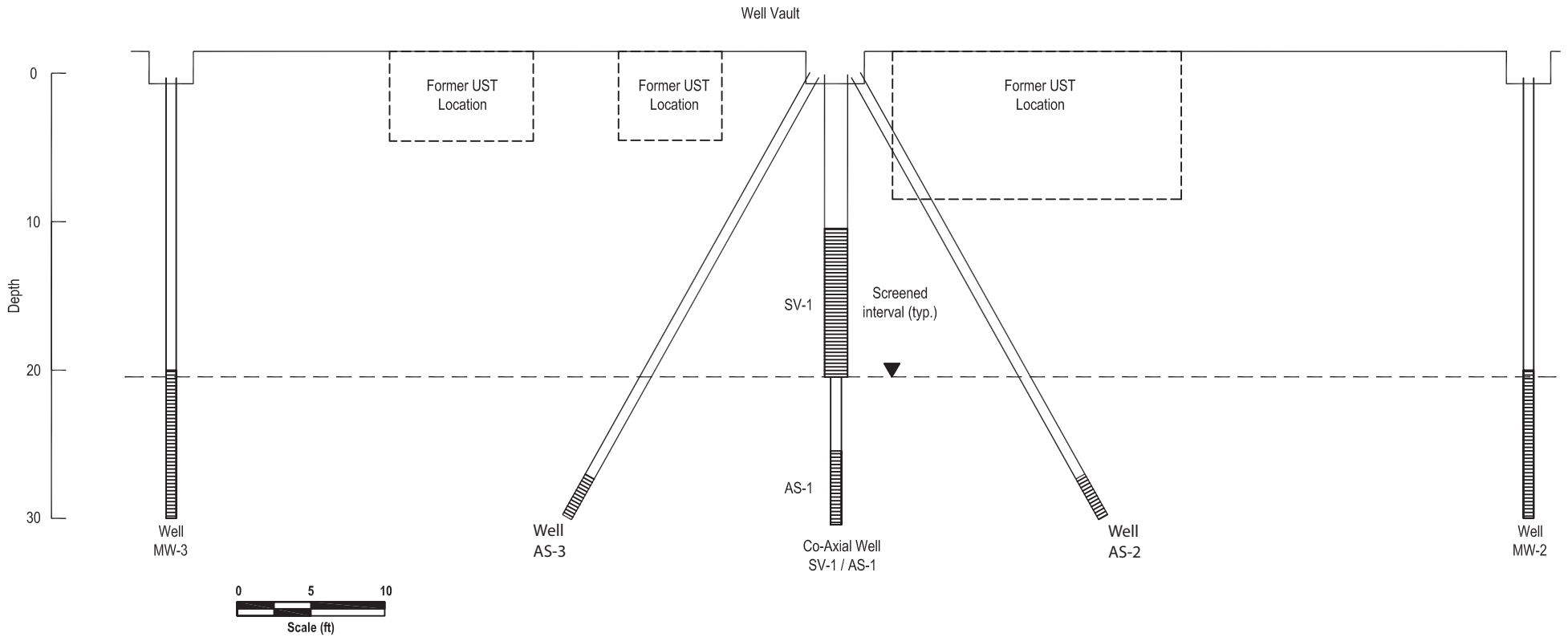


Figure
7

| EXPLANATION | |
|--------------|--|
| MW-1 | Groundwater monitoring well |
| SV-1, AS-1 | Remediation well |
| [Dashed Box] | Former Underground Storage Tanks/Dispensers |
| AS-2 | Screen locations for slanted remediation wells |

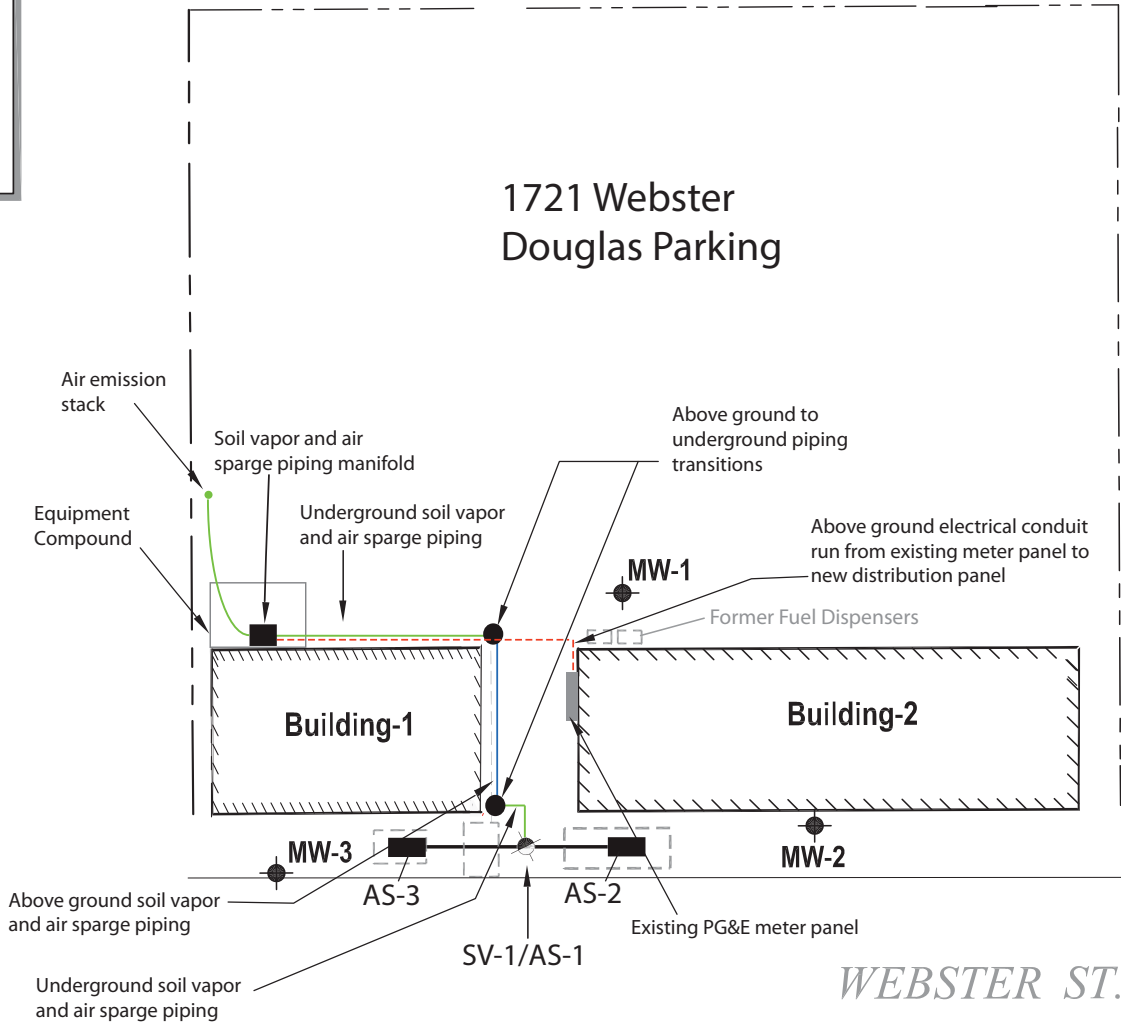


Figure 8

Douglas Parking
 1721 Webster Street
 Oakland, California



Remediation System
 Layout

PANGEA

Table 1 - Groundwater Elevation and Analytical Data.

Douglas Parking Company, 1721 Webster Street, Oakland, California

| Boring / Well ID <i>TOC</i> | Date | Depth to Water (ft) | Groundwater Elevation (ft amsl) | TPHg | Benzene | Toluene | Ethylbenzene (µg/L) | Xylenes | MTBE |
|--------------------------------|------------|---------------------|---------------------------------|------|---------|---------|---------------------|---------|------|
| Monitoring Wells | | | | | | | | | |
| MW-1 | 12/2/1994 | 19.42 | 9.83 | ND | ND | ND | ND | ND | - |
| 29.25 | 3/6/1995 | 20.69 | 9.04 | ND | ND | ND | ND | ND | - |
| 29.73 | 7/11/1995 | 20.65 | 9.16 | ND | ND | ND | ND | ND | - |
| 29.81 | 5/10/1996 | 20.80 | 9.01 | ND | ND | ND | ND | ND | - |
| | 10/2/1996 | 21.35 | 8.46 | - | - | - | - | - | - |
| | 2/28/1997 | 20.57 | 9.24 | - | - | - | - | - | - |
| | 9/16/1997 | 21.50 | 8.31 | - | - | - | - | - | - |
| | 2/5/1998 | 20.91 | 8.90 | - | - | - | - | - | - |
| | 8/11/1998 | 20.50 | 9.31 | - | - | - | - | - | - |
| | 2/8/1999 | 21.42 | 8.39 | - | - | - | - | - | - |
| | 2/24/1999 | 22.99 | 6.82 | - | - | - | - | - | - |
| | 3/3/1999 | 20.84 | 8.97 | - | - | - | - | - | - |
| | 3/10/1999 | 20.89 | 8.92 | - | - | - | - | - | - |
| | 3/17/1999 | 20.84 | 8.97 | - | - | - | - | - | - |
| | 5/4/1999 | 20.80 | 9.01 | - | - | - | - | - | - |
| | 7/20/1999 | 21.25 | 8.56 | - | - | - | - | - | - |
| | 10/5/1999 | 21.37 | 8.44 | - | - | - | - | - | - |
| | 1/7/2000 | 21.65 | 8.16 | - | - | - | - | - | - |
| | 4/6/2000 | 21.05 | 8.76 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 7/31/2000 | 21.13 | 8.68 | - | - | - | - | - | - |
| | 10/3/2000 | 21.69 | 8.12 | - | - | - | - | - | - |
| | 1/12/2001 | 22.00 | 7.81 | - | - | - | - | - | - |
| | 4/11/2001 | 22.16 | 7.65 | - | - | - | - | - | - |
| | 7/6/2001 | 22.57 | 7.24 | - | - | - | - | - | - |
| | 10/25/2001 | 22.71 | 7.10 | - | - | - | - | - | - |
| | 3/4/2002 | 22.53 | 7.28 | - | - | - | - | - | - |
| | 4/18/2002 | 22.81 | 7.00 | - | - | - | - | - | - |
| | 7/9/2002 | 22.95 | 6.86 | - | - | - | - | - | - |
| | 10/4/2002 | 23.13 | 6.68 | - | - | - | - | - | - |
| | 1/12/2003 | 22.05 | 7.76 | - | - | - | - | - | - |
| | 4/21/2003 | 21.17 | 8.64 | - | - | - | - | - | - |
| 32.75 | 7/21/2003 | 21.39 | 11.36 | - | - | - | - | - | - |
| | 10/2/2003 | 21.64 | 11.11 | - | - | - | - | - | - |
| | 1/15/2004 | 21.10 | 11.65 | - | - | - | - | - | - |
| | 4/5/2004 | 21.20 | 11.55 | - | - | - | - | - | - |
| | 8/9/2004 | 22.97 | 9.78 | - | - | - | - | - | - |
| | 10/7/2004 | 23.55 | 9.20 | - | - | - | - | - | - |
| | 2/7/2005 | 20.90 | 11.85 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 4/5/2005 | 20.60 | 12.15 | - | - | - | - | - | - |
| | 7/6/2005 | 20.66 | 12.09 | - | - | - | - | - | - |
| | 10/10/2005 | 21.16 | 11.59 | - | - | - | - | - | - |
| | 1/26/2006 | 20.73 | 12.02 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 4/10/2006 | 20.05 | 12.70 | - | - | - | - | - | - |
| | 7/6/2006 | 20.90 | 11.85 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 10/26/2006 | 21.80 | 10.95 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 1/19/2007 | 22.02 | 10.73 | -- | -- | -- | -- | -- | -- |
| | 4/17/2007 | 22.13 | 10.62 | -- | -- | -- | -- | -- | -- |
| | 7/6/2007 | 21.83 | 10.92 | -- | -- | -- | -- | -- | -- |
| | 10/15/2007 | 22.28 | 10.47 | -- | -- | -- | -- | -- | -- |
| | 1/17/2008 | 22.33 | 10.42 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 4/9/2008 | 22.11 | 10.64 | -- | -- | -- | -- | -- | -- |

PANGEA

Table 1 - Groundwater Elevation and Analytical Data.

Douglas Parking Company, 1721 Webster Street, Oakland, California

| Boring / Well ID <i>TOC</i> | Date | Depth to Water (ft) | Groundwater Elevation (ft amsl) | TPHg | Benzene | Toluene | Ethylbenzene (µg/L) | Xylenes | MTBE |
|--------------------------------|------------------|---------------------|---------------------------------|-------------------|----------------|----------------|---------------------|----------------|----------------|
| MW-1 | 7/17/2008 | 22.50 | 10.25 | -- | -- | -- | -- | -- | -- |
| <i>(cont'd)</i> | 10/27/2008 | 22.75 | 10.00 | -- | -- | -- | -- | -- | -- |
| | 1/9/2009 | 22.89 | 9.86 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 4/27/2009 | 22.40 | 10.35 | -- | -- | -- | -- | -- | -- |
| | 7/9/2009 | 22.55 | 10.20 | -- | -- | -- | -- | -- | -- |
| | 2/3/2010 | 22.08 | 10.67 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 7/13/2010 | 21.20 | 11.55 | --- | --- | --- | --- | --- | --- |
| | 1/17/2011 | | | Well Inaccessible | | | | | |
| | 7/12/2011 | 20.72 | 12.03 | -- | -- | -- | -- | -- | -- |
| | 1/11/2012 | 21.33 | 11.42 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 7/25/2012 | 20.94 | 11.81 | -- | -- | -- | -- | -- | -- |
| | 1/25/2013 | 21.41 | 11.34 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 7/29/2013 | 22.14 | 10.61 | -- | -- | -- | -- | -- | -- |
| | 1/28/2014 | 22.75 | 10.00 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 7/24/2014 | 22.84 | 9.91 | -- | -- | -- | -- | -- | -- |
| | 1/22/2015 | 22.45 | 10.30 | <50 | <0.5 | <0.5 | <0.5 | <1.5 | <5.0 |
| | 7/20/2015 | 22.87 | 9.88 | -- | -- | -- | -- | -- | -- |
| | 8/3/2016 | 22.27 | 10.48 | <50 | <0.5 | <0.5 | <0.5 | <1.5 | <5.0 |
| | 1/20/2017 | 21.83 | 10.92 | <50 | <0.5 | <0.5 | <0.5 | <1.5 | <5.0 |
| MW-2 | 12/2/1994 | 19.50 | 7.60 | 61,300 | 3,000 | 3,900 | 160 | 4,500 | - |
| 27.10 | 3/6/1995 | 18.49 | 8.61 | 98,000 | 8,400 | 16,000 | 2,000 | 2,600 | - |
| 27.40 | 7/11/1995 | 18.45 | 8.95 | 38,000 | 3,100 | 7,500 | 940 | 3,700 | - |
| | 5/10/1996 | 18.56 | 8.84 | 63,000 | 7,400 | 16,000 | 1,500 | 6,000 | - |
| | 10/2/1996 | 19.15 | 8.25 | 21,000 | 2,200 | 3,400 | 430 | 1,600 | - |
| | 2/28/1997 | 18.43 | 8.97 | 39,000 | 4,700 | 9,600 | 950 | 4,200 | ND |
| | 9/16/1997 | 19.26 | 8.14 | 29,000 | 3,300 | 5,800 | 690 | 2,900 | <620 |
| | 2/5/1998 | 18.66 | 8.74 | 10,000 | 1,000 | 2,000 | 170 | 860 | <330 |
| | 8/11/1998 | 18.41 | 8.99 | 12,000 | 1,200 | 2,300 | 260 | 1,400 | 300 |
| | 2/8/1999 | 19.84 | 7.56 | 5,500 | 740 | 1,200 | 150 | 780 | 60 |
| | 2/17/1999 | 18.94 | 8.46 | - | - | - | - | - | - |
| | 2/24/1999 | 20.76 | 6.64 | - | - | - | - | - | - |
| | 3/3/1999 | 18.55 | 8.85 | - | - | - | - | - | - |
| | 3/10/1999 | 20.74 | 6.66 | - | - | - | - | - | - |
| | 3/17/1999 | 18.57 | 8.83 | - | - | - | - | - | - |
| | 5/4/1999 | 18.55 | 8.85 | 90,000 | 9,200 | 21,000 | 1,600 | 10,000 | 560 |
| | 7/20/1999 | 18.98 | 8.42 | 28,000 | 2,100 | 3,700 | 900 | 4,200 | <860 |
| | 10/5/1999 | 19.10 | 8.30 | 11,000 | 870 | 180 | 30 | 1,400 | <110 |
| | 1/7/2000 | 19.41 | 7.99 | 15,000 | 1,300 | 2,100 | 440 | 1,800 | <14 |
| | 4/6/2000 | 18.80 | 8.60 | 17,000 | 1,800 | 3,100 | 500 | 2,200 | <50 |
| | 7/31/2000 | 18.87 | 8.53 | 17,000 | 1,500 | 2,700 | 430 | 2,100 | <200 |
| | 10/3/2000 | 19.45 | 7.95 | 27,000 | 2,500 | 4,000 | 660 | 2,900 | <50 |
| | 1/12/2001 | 19.80 | 7.60 | 25,000 | 2,700 | 4,100 | 670 | 3,000 | <200 |
| | 4/11/2001 | 20.03 | 7.37 | 97,000 | 9,500 | 21,000 | 2,200 | 7,900 | <200 |
| | 7/6/2001 | 20.19 | 7.21 | 3,500 | 500 | 150 | 11 | 420 | <5.0 |
| | 10/25/2001 | 20.35 | 7.05 | 3,800 | 620 | 230 | 70 | 400 | <50 |
| | 3/4/2002 | 20.37 | 7.03 | 46,000 | 7,300 | 12,000 | 870 | 3,200 | <500 |
| | 4/18/2002 | 20.15 | 7.25 | 68,000 | 5,100 | 8,900 | 1,100 | 4,000 | <1,000 |
| | 7/9/2002 | 21.09 | 6.31 | 1,000 | 200 | 8.9 | 0.67 | 82 | <10 |
| | 10/4/2002 | 21.28 | 6.12 | 270 | 100 | 3.4 | 0.53 | 10 | <5.0 |
| | 1/12/2003 | 20.59 | 6.81 | 67,000 | 7,600 | 13,000 | 1,400 | 5,600 | <500 |
| | 4/21/2003 | 19.98 | 7.42 | 78,000 | 7,700 | 12,000 | 1,900 | 6,900 | <500 |
| 30.40 | 7/21/2003 | 20.08 | 10.32 | 1,800 | 360 | 16 | <5.0 | 190 | <50 |
| | 10/2/2003 | 20.41 | 9.99 | 4,000 | 790 | 110 | 60 | 350 | <50 |

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Table 1 - Groundwater Elevation and Analytical Data.

Douglas Parking Company, 1721 Webster Street, Oakland, California

| Boring / Well ID <i>TOC</i> | Date | Depth to Water (ft) | Groundwater Elevation (ft amsl) | TPHg | Benzene | Toluene | Ethylbenzene (µg/L) | Xylenes | MTBE |
|--------------------------------|------------------|---------------------|---------------------------------|--------------|------------|------------|---------------------|-----------|----------------|
| MW-2 | 1/15/2004 | 19.93 | 10.47 | 8,100 | 6.1 | 23 | 44 | 530 | <50 |
| <i>(cont'd)</i> | 4/5/2004 | 18.99 | 11.41 | 14,000 | 1,600 | 2,100 | 550 | 2,500 | <500 |
| | 8/9/2004 | 19.79 | 10.61 | 1,200 | 210 | 16 | 14 | 100 | <20 |
| | 10/7/2004 | 20.26 | 10.14 | 1,100 | 2.3 | 9.8 | 2.9 | 36 | <5.0 |
| | 2/7/2005 | 18.80 | 11.60 | 45,000 | 4,400 | 4,800 | 1,400 | 5,800 | <200 |
| | 4/5/2005 | 18.40 | 12.00 | 34,000 | 3,700 | 3,600 | 1,200 | 5,300 | <500 (<5.0) |
| | 7/6/2005 | 18.48 | 11.92 | 24,000 | 1,600 | 1,700 | 570 | 2,800 | <500 |
| | 10/10/2005 | 19.00 | 11.40 | 25,000 | 1,700 | 2,100 | 710 | 3,200 | <500 |
| | 1/26/2006 | 18.58 | 11.82 | 60,000 | 4,600 | 7,200 | 1,600 | 6,900 | <1,000 |
| | 4/10/2006 | 17.84 | 12.56 | 56,000 | 4,900 | 7,500 | 1,200 | 7,400 | <500 |
| | 7/6/2006 | 18.76 | 11.64 | 28,000 | 1,900 | 1,700 | 720 | 2,900 | <500 |
| | 10/26/2006 | 19.60 | 10.80 | 43,000 | 2,800 | 2,500 | 1,700 | 7,600 | <500 |
| | 1/19/2007 | 19.84 | 10.56 | 31,000 | 2,700 | 2,400 | 1,400 | 5,800 | <150 |
| | 4/17/2007 | 19.90 | 10.50 | 37,000 | 3,200 | 2,900 | 1,600 | 6,400 | <400 |
| | 7/6/2007 | 19.63 | 10.77 | 30,000 | 3,200 | 2,000 | 1,500 | 5,200 | <250 |
| | 10/15/2007 | 20.11 | 10.29 | 20,000 | 1,200 | 990 | 650 | 2,300 | <500 |
| | 1/17/2008 | 20.10 | 10.30 | 38,000 | 2,900 | 5,100 | 1,200 | 5,000 | <210 |
| | 4/9/2008 | 20.12 | 10.28 | 51,000 | 3,000 | 6,400 | 1,700 | 6,500 | <250 |
| | 7/17/2008 | 20.01 | 10.39 | 22,000 | 180 | 500 | 660 | 2,100 | <250 |
| | 10/27/2008 | 20.61 | 9.79 | 26,000 | 570 | 2,100 | 670 | 3,400 | <50 |
| | 1/9/2009 | 20.80 | 9.60 | 16,000 | 240 | 680 | 460 | 3,000 | <100 |
| | 4/27/2009 | 20.17 | 10.23 | 16,000 | 130 | 660 | 570 | 3,600 | <500 |
| | 7/9/2009 | 20.36 | 10.04 | 8,500 | 30 | 110 | 250 | 1,400 | <100 |
| | 2/3/2010 | 19.84 | 10.56 | 22,000 | 47 | 140 | 500 | 3,000 | <100 |
| | 7/13/2010 | 19.08 | 11.32 | 1,900 | 3.5 | 5.8 | 38 | 110 | <5.0 |
| | 1/17/2011 | 19.02 | 11.38 | 17,000 | 23 | 100 | 330 | 2,200 | <100 |
| | 7/12/2011 | 18.52 | 11.88 | 15,000 | 22 | 30 | 190 | 740 | <50 |
| | 1/12/2011 | 19.18 | 11.22 | 20,000 | 17 | 47 | 250 | 2,100 | <84 |
| | 7/25/2012 | 18.83 | 11.57 | 440 | <0.5 | 2.2 | 1.0 | 39 | <5.0 |
| | 1/25/2013 | 19.21 | 11.19 | 8,300 | 17 | 11 | 140 | 510 | <50 |
| | 7/29/2013 | 19.94 | 10.46 | 8,000 | 13 | 13 | 200 | 100 | <25 |
| | 1/28/2014 | 20.56 | 9.84 | 5,900 | 10 | 7.3 | 100 | 80 | <50 |
| | 7/24/2014 | 20.61 | 9.79 | 2,100 | 1.5 | 3.1 | 21 | 37 | <5.0 |
| | 1/22/2015 | 20.24 | 10.16 | 1,700 | 3.3 | 3.0 | 8.0 | 25 | <10 |
| | 7/20/2015 | 20.66 | 9.74 | 770 | 0.57 | 0.69 | 9.2 | 10 | <5.0 |
| | 8/3/2016 | 20.03 | 10.37 | 980 | 0.9 | 1.9 | 9.4 | 9.9 | <5.0 |
| | 1/20/2017 | 19.49 | 10.91 | 3,000 | 2.7 | 3.7 | 19 | 29 | <5.0 |
| MW-3 | 12/2/1994 | 22.15 | 7.35 | 394,000 | 1,200 | ND | 1,800 | 4,000 | - |
| 29.50 | 3/6/1995 | 20.09 | 9.16 | 21,000 | 400 | 150 | 24 | 62 | - |
| 29.25 | 7/11/1995 | 19.99 | 9.57 | 12,000 | ND | 10 | 16 | 99 | - |
| 29.56 | 5/10/1996 | 20.24 | 9.32 | 8,600 | ND | 7.6 | 16 | 84 | - |
| | 10/2/1996 | 20.90 | 8.66 | 11,000 | ND | 7.4 | 19 | 92 | - |
| | 2/28/1997 | 20.12 | 9.44 | 6,000 | ND | 4.4 | 17 | 88 | 50 |
| | 9/16/1997 | 20.97 | 8.59 | 6,500 | <0.5 | 0.69 | 1.2 | 6.7 | <5.0 |
| | 2/5/1998 | 20.39 | 9.17 | 5,400 | <0.5 | 6.3 | 15 | 86 | <63 |
| | 8/11/1998 | 19.95 | 9.61 | 2,700 | <0.5 | 3.5 | 3.2 | 12 | <10 |
| | 2/8/1999 | 20.58 | 8.98 | 6,100 | <0.5 | 8.1 | 18 | 80 | <140 |
| | 2/17/1999 | 20.53 | 9.03 | - | - | - | - | - | - |
| | 2/24/1999 | 22.53 | 7.03 | - | - | - | - | - | - |
| | 3/3/1999 | 20.28 | 9.28 | - | - | - | - | - | - |
| | 3/10/1999 | 22.45 | 7.11 | - | - | - | - | - | - |
| | 3/17/1999 | 20.26 | 9.30 | - | - | - | - | - | - |
| | 5/4/1999 | 20.24 | 9.32 | 11,000 | <2 | <2 | 9.8 | 140 | <10 |

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Table 1 - Groundwater Elevation and Analytical Data.

Douglas Parking Company, 1721 Webster Street, Oakland, California

| Boring / Well ID TOC | Date | Depth to Water (ft) | Groundwater Elevation (ft amsl) | TPHg | Benzene | Toluene | Ethylbenzene (µg/L) | Xylenes | MTBE |
|-------------------------|------------|---------------------|---------------------------------|--------|---------|---------|---------------------|---------|------------|
| MW-3 | 7/20/1999 | 20.68 | 8.88 | 11,000 | <0.5 | 3.1 | 13 | 88 | <80 |
| (cont'd) | 10/5/1999 | 20.81 | 8.75 | 31,000 | 62 | <0.5 | 21 | 170 | <90 |
| | 1/7/2000 | 21.09 | 8.47 | 13,000 | <0.5 | <2 | 21 | 140 | <80 |
| | 4/6/2000 | 20.48 | 9.08 | 5,300 | 1.5 | 1.4 | 9.8 | 60 | <30 |
| | 7/31/2000 | 20.62 | 8.94 | 7,100 | 3.5 | 1.0 | 12 | 66 | <5.0 |
| | 10/3/2000 | 21.13 | 8.43 | 8,000 | <0.5 | 3.3 | 11 | 70 | <40 |
| | 1/12/2001 | 21.45 | 8.11 | 11,000 | 4.3 | 6.7 | 11 | 73 | <70 |
| | 4/11/2001 | 21.69 | 7.87 | 10,000 | <0.5 | <0.5 | 11 | 65 | <10 |
| | 7/6/2001 | 21.60 | 7.96 | 13,000 | 5.3 | 1.6 | 11 | 58 | <5.0 |
| | 10/25/2001 | 21.70 | 7.86 | 11,000 | <0.5 | 3.0 | 15 | 70 | <10 |
| | 3/4/2002 | 21.65 | 7.91 | 1,900 | 1.3 | 0.8 | <0.5 | 15 | <5.0 |
| | 4/18/2002 | 21.77 | 7.79 | 1,500 | 1.0 | 0.97 | 1.3 | 5.8 | <5 |
| | 7/9/2002 | 22.03 | 7.53 | 13,000 | 6.8 | 5.7 | 13 | 59 | <90 |
| | 10/4/2002 | 22.15 | 7.41 | 8,400 | <10 | <10 | <10 | 42 | <100 |
| | 1/12/2003 | 21.13 | 8.43 | 9,000 | 9.5 | 5.1 | 8.5 | 46 | <90 |
| | 4/21/2003 | 20.63 | 8.93 | 10,000 | <5.0 | <5.0 | 8.5 | 32 | <50 |
| 32.56 | 7/21/2003 | 20.68 | 11.88 | 9,600 | <2.5 | <2.5 | 7.4 | 39 | 48 (<1.0) |
| | 10/2/2003 | 20.99 | 11.57 | 12,000 | <5.0 | <5.0 | 10 | 40 | <90 |
| | 1/15/2004 | 20.74 | 11.82 | 13,000 | 37 | 41 | 78 | 930 | <50 |
| | 4/5/2004 | 20.59 | 11.97 | 4,500 | <1.7 | <1.7 | <1.7 | 12 | <17 |
| | 8/9/2004 | 22.18 | 10.38 | 2,100 | <1.0 | 3.7 | <1.0 | 8.1 | <10 |
| | 10/7/2004 | 22.79 | 9.77 | 2,400 | 6.5 | 26 | 7.5 | 89 | <15 |
| | 2/7/2005 | 20.35 | 12.21 | 6,800 | 2.2 | 5.6 | 2.0 | 12 | <30 |
| | 4/5/2005 | 19.95 | 12.61 | 6,100 | 2.3 | 2.6 | 1.3 | 8.3 | <45 (<0.5) |
| | 7/6/2005 | 19.93 | 12.63 | 4,500 | <1.0 | 1.5 | 1.0 | 8.3 | <10 |
| | 10/10/2005 | 20.45 | 12.11 | 3,800 | 0.73 | <0.5 | 0.98 | 5.7 | <15 |
| | 1/26/2006 | 20.05 | 12.51 | 5,100 | <0.5 | 1.1 | <0.5 | 6.6 | <15 |
| | 4/10/2006 | 19.39 | 13.17 | 1,900 | 0.55 | 1.6 | 0.51 | 4.1 | <10 |
| | 7/6/2006 | 20.25 | 12.31 | 5,600 | <1.0 | 2.3 | <1.0 | 6.4 | <20 |
| | 10/26/2006 | 21.07 | 11.49 | 8,000 | 2.5 | 1.0 | 2.3 | 12 | <35 |
| | 1/19/2007 | 21.38 | 11.18 | 77,000 | 19 | 40 | 9.5 | 130 | <300 |
| | 4/17/2007 | 21.45 | 11.11 | 7,400 | 2.7 | 6.6 | 1.1 | 12 | <40 |
| | 7/6/2007 | 21.29 | 11.27 | 7,100 | 2.4 | 5.6 | 0.85 | 10 | <30 |
| | 10/15/2007 | 21.62 | 10.94 | 10,000 | <5.0 | <5.0 | <5.0 | 14 | <50 |
| | 1/17/2008 | 21.68 | 10.88 | 6,400 | 1.8 | <0.5 | 1.0 | 8.4 | 23 |
| | 4/9/2008 | 21.42 | 11.14 | 4,700 | 1.7 | 2.2 | <0.5 | 3.8 | <18 |
| | 7/17/2008 | 22.10 | 10.46 | 7,700 | 2.9 | 3.1 | 1.4 | 11 | <60 |
| | 10/27/2008 | 22.13 | 10.43 | 9,700 | <1.7 | 1.8 | 2.3 | 11 | <17 |
| | 1/9/2009 | 22.27 | 10.29 | 9,800 | 1.7 | 2.0 | 3.0 | 14 | <17 |
| | 4/27/2009 | 21.74 | 10.82 | 8,700 | 1.9 | 3.3 | <1.7 | 11 | <50 |
| | 7/9/2009 | 21.92 | 10.64 | 10,000 | <2.5 | 4.1 | 2.6 | 11 | <60 |
| | 2/3/2010 | 21.55 | 11.01 | 5,300 | 1.5 | 2.3 | <0.5 | 2.7 | <25 |
| | 7/13/2010 | 21.31 | 11.25 | 4,400 | <2.5 | 9.0 | <2.5 | 4.6 | <25 |
| | 1/17/2011 | 20.75 | 11.81 | 4,100 | 1.2 | 1.8 | <0.5 | 2.7 | <20 |
| | 7/12/2011 | 20.14 | 12.42 | 4,500 | 2.4 | 2.8 | <0.5 | 5.0 | <25 |
| | 1/11/2012 | 20.80 | 11.76 | 3,000 | 1.1 | 1.6 | <0.5 | 1.9 | <15 |
| | 7/25/2012 | 20.44 | 12.12 | 5,400 | <1.7 | <1.7 | <1.7 | 4.1 | <17 |
| | 1/25/2013 | 20.84 | 11.72 | 4,900 | <1.7 | 2.7 | <1.7 | 3.5 | <17 |
| | 7/29/2013 | 21.48 | 11.08 | 9,700 | <2.5 | <2.5 | <2.5 | <2.5 | <25 |
| | 1/28/2014 | 22.08 | 10.48 | 12,000 | 2.8 | 2.8 | <2.5 | 4.6 | <25 |
| | 7/24/2014 | 22.15 | 10.41 | 6,700 | 2.2 | <1.7 | 1.9 | 5.2 | <35 |
| | 1/22/2015 | 21.76 | 10.80 | 8,900 | <5.0 | <5.0 | <5.0 | <5.0 | <50 |

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Table 1 - Groundwater Elevation and Analytical Data.

Douglas Parking Company, 1721 Webster Street, Oakland, California

| Boring / Well ID TOC | Date | Depth to Water (ft) | Groundwater Elevation (ft amsl) | TPHg | Benzene | Toluene | Ethylbenzene | Xylenes | MTBE |
|----------------------------|------------------|---------------------------|---------------------------------------|--------------|----------------|------------|----------------|----------------|---------------|
| | | | | (µg/L) | | | | | |
| MW-3 (cont'd) | 7/20/2015 | 22.14 | 10.42 | 3,600 | <1.7 | <1.7 | <1.7 | 3.5 | <17 |
| | 8/3/2016 | 21.51 | 11.05 | 7,400 | 3.0 | 3.5 | <2.5 | <7.5 | 27 |
| | 1/20/2017 | 21.15 | 11.41 | 4,200 | <2.5 | 5.0 | <2.5 | <7.5 | <25 |
| MW-4 25.29 | 5/10/1996 | 16.98 | 8.31 | 14,000 | ND | 1,200 | 720 | 3,100 | - |
| | 10/2/1996 | 17.65 | 7.64 | 12,000 | ND | 650 | 580 | 2,200 | - |
| 28.29 | 2/28/1997 | 16.80 | 8.49 | 13,000 | ND | 1,100 | 750 | 2,700 | 110 |
| | 9/17/1997 | 17.93 | 7.36 | 13,000 | <2.5 | 820 | 750 | 2,900 | <190 |
| | 2/5/1998 | 16.78 | 8.51 | 13,000 | <1.0 | 690 | 690 | 2,900 | <170 |
| | 8/11/1998 | 16.59 | 8.70 | 15,000 | <5 | 360 | 520 | 1,900 | 280 |
| | 2/8/1999 | 17.10 | 8.19 | 9,800 | <5 | 680 | 770 | 2,200 | 300 |
| | 2/24/1999 | 18.95 | 6.34 | - | - | - | - | - | - |
| | 3/3/1999 | 16.80 | 8.49 | - | - | - | - | - | - |
| | 3/10/1999 | 16.86 | 8.43 | - | - | - | - | - | - |
| | 3/17/1999 | 16.82 | 8.47 | - | - | - | - | - | - |
| | 5/4/1999 | 16.86 | 8.43 | 11,000 | 46 | 600 | 620 | 1,900 | <100 |
| | 7/20/1999 | 17.30 | 7.99 | 13,000 | <0.5 | 470 | 7.0 | 2,000 | <150 |
| | 10/5/1999 | 17.43 | 7.86 | 18,000 | 4.4 | 720 | 800 | 2,100 | <120 |
| | 1/7/2000 | 17.78 | 7.51 | 18,000 | <2 | 930 | 990 | 2,700 | <30 |
| | 4/6/2000 | 17.17 | 8.12 | 8,000 | 31 | 390 | 530 | 1,300 | <10 |
| | 7/31/2000 | 17.21 | 8.08 | 6,200 | 13 | 170 | 460 | 850 | <10 |
| | 10/3/2000 | 18.00 | 7.29 | 14,000 | 42 | 820 | 730 | 2,000 | <50 |
| | 1/12/2001 | 18.20 | 7.09 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 4/11/2001 | 18.31 | 6.98 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 7/6/2001 | 18.35 | 6.94 | 470 | 2.3 | 1.6 | 0.81 | 43 | <5.0 |
| | 10/25/2001 | 18.47 | 6.82 | 110 | 0.70 | <0.5 | <0.5 | 3.3 | <5.0 |
| | 3/4/2002 | 18.43 | 6.86 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 4/18/2002 | 18.61 | 6.68 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 7/9/2002 | 19.50 | 5.79 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 10/4/2002 | 19.83 | 5.46 | 310 | 2.0 | 2.9 | 13 | 16 | <0.5 |
| | 1/12/2003 | 19.07 | 6.22 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 4/21/2003 | 18.71 | 6.58 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 7/21/2003 | 18.81 | 9.48 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 10/2/2003 | 19.02 | 9.27 | 59 | 0.78 | <0.5 | 1.1 | 0.91 | <5.0 |
| 1/15/2004 | 18.68 | 9.61 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | |
| 4/5/2004 | 17.41 | 10.88 | 6,200 | 29 | 250 | 450 | 730 | <100 | |
| 8/9/2004 | 19.07 | 9.22 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | |
| 10/7/2004 | 19.65 | 8.64 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | |
| 2/7/2005 | 17.21 | 11.08 | 8,700 | 48 | 340 | 550 | 720 | <100 | |
| 4/5/2005 | 16.78 | 11.51 | 6,900 | 27 | 290 | 520 | 660 | <170 (<0.5) | |
| 7/6/2005 | 16.98 | 11.31 | 5,600 | <5.0 | 130 | 470 | 480 | <50 | |
| 10/10/2005 | 17.59 | 10.70 | 6,300 | 23 | 78 | 530 | 430 | <50 | |
| 1/26/2006 | 17.08 | 11.21 | 5,600 | 41 | 68 | 400 | 290 | <120 | |
| 4/10/2006 | 16.27 | 12.02 | 2,900 | 39 | 32 | 200 | 140 | <60 | |
| 7/6/2006 | 17.20 | 11.09 | 5,400 | 65 | 59 | 340 | 150 | <120 | |
| 10/26/2006 | 18.06 | 10.23 | 7,200 | 72 | 46 | 460 | 200 | <150 | |
| 1/19/2007 | 18.29 | 10.00 | 7,100 | 140 | 35 | 520 | 150 | <200 | |
| 4/17/2007 | 18.30 | 9.99 | 4,900 | 90 | 32 | 290 | 89 | <110 | |
| 7/6/2007 | 18.00 | 10.29 | 4,600 | 91 | 30 | 210 | 55 | <90 | |
| 10/15/2007 | 18.52 | 9.77 | 8,600 | 200 | 62 | 480 | 110 | <210 | |
| 1/17/2008 | 18.46 | 9.83 | 820 | 15 | 3.7 | 25 | 9.3 | <10 | |
| 4/9/2008 | 18.23 | 10.06 | 3,600 | 55 | 20 | 160 | 64 | <60 | |
| 7/17/2008 | 18.72 | 9.57 | 6,500 | 210 | 47 | 510 | 180 | <180 | |
| 10/27/2008 | 19.07 | 9.22 | 7,700 | 200 | 28 | 450 | 87 | <150 | |

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Table 1 - Groundwater Elevation and Analytical Data.

Douglas Parking Company, 1721 Webster Street, Oakland, California

| Boring / Well ID TOC | Date | Depth to Water (ft) | Groundwater Elevation (ft amsl) | TPHg | Benzene | Toluene | Ethylbenzene (µg/L) | Xylenes | MTBE |
|-------------------------|------------------|---------------------|---------------------------------|-------|---------|---------|----------------------------|---------|-------------|
| MW-4 | 1/9/2009 | 19.12 | 9.17 | 4,400 | 180 | 34 | 180 | 93 | <150 |
| (cont'd) | 4/27/2009 | 18.52 | 9.77 | 2,500 | 110 | 24 | 190 | 69 | <150 |
| | 7/9/2009 | 18.78 | 9.51 | 5,600 | 150 | 34 | 270 | 83 | <250 |
| | 2/3/2010 | 18.24 | 10.05 | 2,900 | 38 | 20 | 69 | 54 | <50 |
| | 7/13/2010 | 17.59 | 10.70 | 1,100 | 20 | 7.6 | 43 | 26 | <60 |
| | 1/17/2011 | 17.42 | 10.87 | 2,900 | 16 | 43 | 60 | 99 | <15 |
| | 7/12/2011 | 17.01 | 11.28 | <50 | <0.5 | 0.56 | 0.52 | 0.93 | <5.0 |
| | 1/11/2012 | 17.68 | 10.61 | 4,100 | 52 | 52 | 49 | 130 | <90 |
| | 7/25/2012 | 17.26 | 11.03 | 100 | 1.2 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 1/25/2013 | 17.58 | 10.71 | 3,500 | 33 | 20 | 23 | 65 | <35 |
| | 7/29/2013 | 18.34 | 9.95 | 97 | 4.7 | <0.5 | <0.5 | 0.70 | <10 |
| | 1/28/2014 | 18.99 | 9.30 | <50 | 1.2 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 7/24/2014 | 19.05 | 9.24 | 4,200 | 83 | 19 | 40 | 32 | <50 |
| | 1/22/2015 | 18.57 | 9.72 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 7/20/2015 | -- | -- | | | | --well paved over-- | | |
| | 8/3/2016 | -- | -- | | | | --well paved over-- | | |
| | 1/20/2017 | -- | -- | | | | --well paved over-- | | |
| MW-5 | 5/10/1996 | 14.60 | 7.37 | ND | ND | ND | ND | ND | - |
| 21.97 | 10/2/1996 | 15.25 | 6.72 | ND | ND | ND | ND | ND | - |
| | 2/28/1997 | 14.31 | 7.66 | ND | ND | ND | ND | ND | ND |
| | 9/17/1997 | 15.18 | 6.79 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 2/5/1998 | 13.64 | 8.33 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 8/11/1998 | 13.92 | 8.05 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 2/8/1999 | 14.19 | 7.78 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 2/24/1999 | 16.18 | 5.79 | - | - | - | - | - | - |
| | 3/3/1999 | 14.23 | 7.74 | - | - | - | - | - | - |
| | 3/10/1999 | 14.32 | 7.65 | - | - | - | - | - | - |
| | 3/17/1999 | 14.25 | 7.72 | - | - | - | - | - | - |
| | 5/4/1999 | 14.41 | 7.56 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 7/20/1999 | 14.44 | 7.53 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 10/5/1999 | 14.79 | 7.18 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 1/7/2000* | 15.23 | 6.74 | - | - | - | - | - | - |
| | 4/6/2000 | 14.74 | 7.23 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 7/31/2000 | 14.52 | 7.45 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 10/3/2000 | 15.37 | 6.60 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 1/12/2001 | 15.70 | 6.27 | 6,400 | 13 | 290 | 450 | 1,100 | <40 |
| | 4/11/2001 | 15.78 | 6.19 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 7/6/2001 | 15.97 | 6.00 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 10/25/2001 | 16.05 | 5.92 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 3/4/2002 | 16.21 | 5.76 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 4/18/2002 | 16.59 | 5.38 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 7/9/2002 | 16.94 | 5.03 | 170 | 1.0 | 0.65 | 2.1 | 4.0 | <15 |
| | 10/4/2002 | 17.14 | 4.83 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 1/12/2003 | 16.58 | 5.39 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 4/21/2003 | 15.90 | 6.07 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 7/21/2003 | 16.03 | 8.96 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| 24.99 | 10/2/2003 | 16.33 | 8.66 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 1/15/2004 | 16.21 | 8.78 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 4/5/2004 | 15.01 | 9.98 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 8/9/2004 | 16.85 | 8.14 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 10/7/2004 | 17.48 | 7.51 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 2/7/2005 | 16.52 | 8.47 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 4/5/2005 | 14.45 | 10.54 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 (<0.5) |

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Table 1 - Groundwater Elevation and Analytical Data.

Douglas Parking Company, 1721 Webster Street, Oakland, California

| Boring / Well ID TOC | Date | Depth to Water (ft) | Groundwater Elevation (ft amsl) | TPHg | Benzene | Toluene | Ethylbenzene (µg/L) | Xylenes | MTBE |
|-------------------------|------------------|---------------------|---------------------------------|---------------|----------------|----------------|---------------------|----------------|----------------|
| MW-5 | 7/6/2005 | 14.85 | 10.14 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| (cont'd) | 10/10/2005 | 15.44 | 9.55 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 1/26/2006 | 14.96 | 10.03 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 4/10/2006 | 14.01 | 10.98 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 7/6/2006 | 15.17 | 9.82 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 10/26/2006 | 15.94 | 9.05 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 1/19/2007 | 16.05 | 8.94 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 4/17/2007 | 15.99 | 9.00 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 7/6/2007 | 15.50 | 9.49 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 10/15/2007 | 16.27 | 8.72 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 1/17/2008 | 15.10 | 9.89 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 4/9/2008 | 15.96 | 9.03 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 7/17/2008 | 16.44 | 8.55 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 10/27/2008 | 16.78 | 8.21 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 1/9/2009 | 16.75 | 8.24 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 4/27/2009 | 16.21 | 8.78 | -- | -- | -- | -- | -- | -- |
| | 7/9/2009 | 16.48 | 8.51 | -- | -- | -- | -- | -- | -- |
| | 2/3/2010 | 15.77 | 9.22 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 7/13/2010 | 15.34 | 9.65 | --- | --- | --- | --- | --- | --- |
| | 1/17/2011 | 14.93 | 10.06 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 7/12/2011 | 14.81 | 10.18 | -- | -- | -- | -- | -- | -- |
| | 1/11/2012 | 15.44 | 9.55 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 7/25/2012 | 14.79 | 10.20 | -- | -- | -- | -- | -- | -- |
| | 1/25/2013 | 15.21 | 9.78 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 7/29/2013 | 16.03 | 8.96 | -- | -- | -- | -- | -- | -- |
| | 1/28/2014 | 16.65 | 8.34 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 7/24/2014 | 16.75 | 8.24 | -- | -- | -- | -- | -- | -- |
| | 1/22/2015 | 16.25 | 8.74 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 7/20/2015 | 16.82 | 8.17 | -- | -- | -- | -- | -- | -- |
| | 8/3/2016 | 16.23 | 8.76 | <50 | <0.5 | <0.5 | <0.5 | <1.5 | <5.0 |
| | 1/20/2017 | 14.98 | 10.01 | <50 | <0.5 | <0.5 | <0.5 | <1.5 | <5.0 |
| MW-6 | 6/30/2003 | 19.60 | 11.39 | 68,000 | 950 | 6,000 | 2,400 | 10,000 | <1,000 |
| 30.99 | 7/21/2003 | 19.67 | 11.32 | 120,000 | 170 | 1,400 | 1,100 | 10,000 | <1,000 |
| | 10/2/2003 | 19.97 | 11.02 | 16,000 | 7.6 | 200 | 38 | 1,800 | <100 |
| | 1/15/2004 | 19.55 | 11.44 | 14,000 | 48 | 51 | 94 | 1,100 | <50 |
| | 4/5/2004 | 19.17 | 11.82 | 24,000 | 180 | 900 | 430 | 1,800 | <500 |
| | 8/9/2004 | 20.98 | 10.01 | 5,300 | 6.4 | 25 | 5.3 | 69 | <17 (<0.5) |
| | 10/7/2004 | 21.52 | 9.47 | 5,600 | 11 | 58 | 18 | 210 | <50 (<0.5) |
| | 2/7/2005 | 19.00 | 11.99 | 31,000 | 120 | 620 | 310 | 1,200 | <500 |
| | 4/5/2005 | 18.60 | 12.39 | 21,000 | 170 | 1,100 | 350 | 1,300 | <500 (<5.0) |
| | 7/6/2005 | 18.56 | 12.43 | 26,000 | 130 | 920 | 320 | 1,200 | <500 |
| | 10/10/2005 | 19.99 | 11.00 | 19,000 | 140 | 840 | 250 | 980 | <500 |
| | 1/26/2006 | 18.70 | 12.29 | 10,000 | 140 | 1,100 | 270 | 1,200 | <170 |
| | 4/10/2006 | 18.04 | 12.95 | 13,000 | 140 | 1,000 | 280 | 1,000 | <250 |
| | 7/6/2006 | 18.80 | 12.19 | 17,000 | 150 | 1,000 | 290 | 1,000 | <250 |
| | 10/26/2006 | 19.62 | 11.37 | 23,000 | 230 | 660 | 470 | 1,500 | <500 |
| | 1/19/2007 | 19.92 | 11.07 | 18,000 | 190 | 620 | 350 | 1,100 | <150 |
| | 4/17/2007 | 19.97 | 11.02 | 23,000 | 380 | 1,400 | 590 | 2,000 | <450 |
| | 7/6/2007 | 19.81 | 11.18 | 28,000 | 600 | 3,000 | 900 | 2,700 | <500 |
| | 10/15/2007 | 20.15 | 10.84 | 25,000 | 290 | 680 | 410 | 1,100 | <250 |
| | 10/15/2007 | 20.15 | 10.84 | 25,000 | 290 | 680 | 410 | 1,100 | <250 |
| | 1/17/2007 | 20.22 | 10.77 | 16,000 | 200 | 130 | 130 | 460 | <150 |
| | 4/9/2008 | 19.86 | 11.13 | 18,000 | 320 | 870 | 480 | 1,500 | <250 |

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Table 1 - Groundwater Elevation and Analytical Data.

Douglas Parking Company, 1721 Webster Street, Oakland, California

| Boring / Well ID <i>TOC</i> | Date | Depth to Water (ft) | Groundwater Elevation (ft amsl) | TPHg | Benzene | Toluene | Ethylbenzene (µg/L) | Xylenes | MTBE |
|--------------------------------|------------------|---------------------|---------------------------------|---------------|------------|-----------|---------------------|------------|-------------|
| MW-6 | 7/17/2008 | 20.36 | 10.63 | 18,000 | 320 | 510 | 420 | 1,200 | <500 |
| (cont'd) | 10/27/2008 | 20.69 | 10.30 | 31,000 | 320 | 320 | 410 | 990 | <350 |
| | 1/9/2009 | 20.83 | 10.16 | 22,000 | 340 | 390 | 560 | 1,400 | <250 |
| | 4/27/2009 | 20.27 | 10.72 | 13,000 | 110 | 97 | 380 | 1,100 | <350 |
| | 7/9/2009 | 20.43 | 10.56 | 18,000 | 250 | 520 | 470 | 1,300 | <450 |
| | 2/3/2010 | 20.14 | 10.85 | 6,200 | 82 | 180 | 190 | 550 | <150 |
| | 7/13/2010 | 19.29 | 11.70 | 12,000 | 260 | 420 | 480 | 1,600 | <450 |
| | 1/17/2011 | 19.31 | 11.68 | 4,900 | 70 | 52 | 210 | 500 | <50 |
| | 7/12/2011 | 18.73 | 12.26 | 1,400 | 20 | 8.5 | 64 | 130 | <30 |
| | 1/11/2012 | 19.39 | 11.60 | 6,000 | 100 | 38 | 310 | 700 | <210 |
| | 7/25/2012 | 19.02 | 11.97 | 2,800 | 31 | 13 | 140 | 240 | <75 |
| | 1/25/2013 | 19.35 | 11.64 | 5,400 | 86 | 34 | 310 | 620 | <100 |
| | 7/29/2013 | 19.97 | 11.02 | 82 | 1.2 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 1/28/2014 | 20.60 | 10.39 | 2,600 | 36 | 11 | 52 | 53 | <50 |
| | 7/24/2014 | 20.70 | 10.29 | 9,600 | 160 | 53 | 410 | 590 | <70 |
| | 1/22/2015 | 20.31 | 10.68 | 7,600 | 25 | 13 | 53 | 86 | <50 |
| | 7/20/2015 | 20.68 | 10.31 | 12,000 | 160 | 73 | 540 | 650 | <450 |
| | 8/3/2016 | 20.02 | 10.97 | 12,000 | 710 | 67 | 3,800 | 3,100 | 450 |
| | 1/20/2017 | 19.56 | 11.43 | 13,000 | 120 | 71 | 760 | 760 | 260 |
| MW-7 | 6/30/2003 | 21.40 | 11.71 | 170 | <0.5 | 2.1 | 2.0 | 8.7 | <5.0 |
| 33.11 | 7/21/2003 | 21.44 | 11.67 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 10/2/2003 | 21.73 | 11.38 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 1/15/2004 | 21.57 | 11.54 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 4/5/2004 | 20.84 | 12.27 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 8/9/2004 | 22.68 | 10.43 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 10/7/2004 | 23.27 | 9.84 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 2/7/2005 | 20.60 | 12.51 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 4/5/2005 | 20.22 | 12.89 | <50 | <0.5 | 0.75 | <0.5 | <0.5 | <5.0 (<0.5) |
| | 7/6/2005 | 20.25 | 12.86 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 10/10/2005 | 20.70 | 12.41 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 1/26/2006 | 20.32 | 12.79 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 4/10/2006 | 19.62 | 13.49 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 7/6/2006 | 20.47 | 12.64 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 10/26/2006 | 21.30 | 11.81 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 1/19/2007 | 21.62 | 11.49 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 4/17/2007 | | 11.49 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 7/6/2007 | 21.59 | 11.52 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 10/15/2007 | 21.85 | 11.26 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 1/17/2007 | 21.90 | 11.21 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 4/9/2008 | 21.61 | 11.50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 7/17/2008 | 22.09 | 11.02 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 10/27/2008 | 22.39 | 10.72 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 1/9/2009 | 22.52 | 10.59 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 4/27/2009 | 21.98 | 11.13 | -- | -- | -- | -- | -- | -- |
| | 7/9/2009 | 22.18 | 10.93 | -- | -- | -- | -- | -- | -- |
| | 2/3/2010 | 21.87 | 11.24 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 7/13/2010 | 21.01 | 12.10 | --- | --- | --- | --- | --- | --- |
| | 1/17/2011 | 21.07 | 12.04 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 7/12/2011 | 20.72 | 12.39 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 1/11/2012 | 21.13 | 11.98 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |

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Table 1 - Groundwater Elevation and Analytical Data.

Douglas Parking Company, 1721 Webster Street, Oakland, California

| Boring / Well ID <i>TOC</i> | Date | Depth to Water (ft) | Groundwater Elevation (ft amsl) | TPHg | Benzene | Toluene | Ethylbenzene (µg/L) | Xylenes | MTBE |
|--------------------------------|------------------|---------------------|---------------------------------|--------|---------|----------------------------|---------------------|---------|------|
| MW-7 | 7/25/2012 | 20.75 | 12.36 | -- | -- | -- | -- | -- | -- |
| (cont'd) | 1/25/2013 | 21.10 | 12.01 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 7/29/2013 | 21.70 | 11.41 | -- | -- | -- | -- | -- | -- |
| | 1/28/2014 | 22.34 | 10.77 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 7/24/2014 | 22.41 | 10.70 | -- | -- | -- | -- | -- | -- |
| | 1/22/2015 | 21.99 | 11.12 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 7/20/2015 | -- | -- | | | --well paved over-- | | | |
| | 8/3/2016 | -- | -- | | | --well paved over-- | | | |
| | 1/20/2017 | -- | -- | | | --well paved over-- | | | |
| AS-1 | 7/6/2006 | 19.53 | -- | 18,000 | 2,700 | 570 | 700 | 1,900 | <500 |
| | 10/26/2006 | 20.33 | -- | 15,000 | 1,900 | 340 | 360 | 1,400 | <250 |
| | 1/19/2007 | 20.64 | -- | 5,700 | 1,100 | 110 | 88 | 630 | <50 |
| | 1/19/2007 | 20.64 | -- | 5,700 | 1,100 | 110 | 88 | 630 | <50 |
| | 4/17/2007 | 20.71 | -- | -- | -- | -- | -- | -- | -- |
| | 7/16/2007 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 10/15/2007 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 1/17/2008 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 4/9/2008 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 1/25/2013 | -- | -- | 70 | 10 | <0.5 | <0.5 | <0.5 | <5.0 |
| AS-2 | 7/6/2006 | 22.26 | -- | 2,100 | 6.1 | <0.5 | 33 | 200 | <20 |
| | 10/26/2006 | 23.25 | -- | 280 | 1.1 | <0.5 | <0.5 | 6.0 | <15 |
| | 1/19/2007 | 23.61 | -- | 2,100 | 2.3 | <0.5 | 96 | 310 | <35 |
| | 4/17/2007 | 23.70 | -- | -- | -- | -- | -- | -- | -- |
| | 7/16/2007 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 10/15/2007 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 1/17/2008 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 4/9/2008 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 1/25/2013 | 22.02 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| AS-3 | 7/6/2006 | 21.77 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 10/26/2006 | 22.66 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 1/19/2007 | 22.97 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 4/17/2007 | 23.06 | -- | -- | -- | -- | -- | -- | -- |
| | 7/16/2007 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 10/15/2007 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 1/17/2008 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 4/9/2008 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 1/25/2013 | 22.60 | -- | <50 | <0.5 | <0.5 | 0.55 | <0.5 | <5.0 |
| Trip Blank | 01/12/01 | - | - | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 4/11/2001 | - | - | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 7/6/2001 | - | - | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 3/4/2002 | - | - | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 10/2/2003 | - | - | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| | 10/15/2007 | -- | -- | -- | -- | -- | -- | -- | -- |

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Table 1 - Groundwater Elevation and Analytical Data.

Douglas Parking Company, 1721 Webster Street, Oakland, California

| Boring / Well ID <i>TOC</i> | Date | Depth to Water (ft) | Groundwater Elevation (ft amsl) | TPHg | Benzene | Toluene | Ethylbenzene (µg/L) | Xylenes | MTBE |
|--------------------------------|-----------|---------------------|---------------------------------|---------|---------|---------|---------------------|---------|------|
| Grab Groundwater | | | | | | | | | |
| SB-A | 2/22/1996 | -- | -- | 16,000 | 38 | 16 | 180 | 620 | -- |
| SB-B | 2/22/1996 | -- | -- | 20,000 | 100 | 29 | 320 | 590 | -- |
| SB-C | 2/22/1996 | -- | -- | 1,200 | 130 | 100 | 68 | 230 | -- |
| SB-D | 2/22/1996 | -- | -- | 7,400 | 550 | 110 | 160 | 89 | -- |
| SB-E | 2/23/1996 | -- | -- | 16,000 | 31 | 160 | 390 | 1,400 | -- |
| SB-F | 2/23/1996 | -- | -- | <50 | <0.5 | 1.4 | <0.5 | 2.3 | -- |
| SB-G | 2/23/1996 | -- | -- | 5,200 | 1.3 | <0.5 | 0.7 | <0.5 | -- |
| EB-1GWS | 7/8/1994 | -- | -- | 62,000 | <0.5 | 26 | 850.0 | 8,900 | -- |
| EB-2GWS | 7/8/1994 | -- | -- | 160,000 | 5,300 | 20,000 | 2,100 | 17,000 | -- |
| EB-3GWS | 7/8/1994 | -- | -- | 87,000 | 1,400 | 21,000 | 1,700 | 19,000 | -- |
| EB-4GWS | 7/8/1994 | -- | -- | 350,000 | 290 | 1,300 | 3,200 | 31,000 | -- |
| EB-5GWS | 7/8/1994 | -- | -- | 120,000 | 2,100.0 | 13,000 | 1,300.0 | 16,000 | -- |
| EB-6GWS | 7/8/1994 | -- | -- | 230,000 | 10,000 | 34,000 | 2,300 | 16,000 | -- |

Notes and Abbreviations:

TOC = Top of casing elevations in feet above mean sea level.

ft amsl = Measured in feet above mean sea level

µg/L = Micrograms per liter.

TPHg = Total petroleum hydrocarbons as gasoline by modified EPA Method 8015C.

BTEX = Benzene, toluene, ethylbenzene, and xylenes by EPA Method 8021B.

MTBE = Methyl tertiary butyl ether by EPA Method 8021B, and by EPA Method 8260 in parenthesis.

<0.5 = Concentration not detected above specific laboratory reporting limit.

-- = Not analyzed, not sampled, or not applicable.

ND = Not detected.

Data prior to 7/11/95 from Gen Tech and Piers Environmental Quarterly Groundwater Monitoring Reports dated December 2, 1994 and March 6, 1995, respectively.

On July 31, 2003, Virgil Chavez Land Surveying of Vallejo, California surveyed monitoring wells using a benchmark in the top of the curb near the SW return of the NW corner of 34th and Broadway.

Pangea

Table 2. Subslab/Soil Gas Analytical Data - Douglas Parking, 1721 Webster Street, Oakland, California

| Boring/ Sample ID | Date Sampled | Sample Depth (ft - ft bgs) | Benzene | Toluene | Ethylbenzene | Xylenes | TPH Gasoline | MTBE | Naphthalene | Isopropanol | Methane | Helium | Oxygen | Notes |
|---|--------------------------------------|-------------------------------------|--------------------|--------------------|----------------------|---------------------|--|----------------------|--------------------|------------------|--------------------|------------------|------------------|--|
| | | | ug/m ³ | | | | | | | | | | % | |
| 2016 Tier 1 ESL | | | 48 | 160,000 | 560 | 52,000 | 50,000 | 5,400 | 41 | -- | -- | -- | -- | For SG/SS samples |
| Residential ESL for subslab/soil gas; VI Human Health Risk: | | | 48 | 160,000 | 560 | 52,000 | 300,000 | 5,400 | 41 | -- | -- | -- | -- | For SG/SS samples |
| Commercial ESL for subslab/soil gas; VI Human Health Risk: | | | 420 | 1,300,000 | 4,900 | 440,000 | 2,500,000 | 47,000 | 360 | -- | -- | -- | -- | For SG/SS samples |
| No Bio-Attenuation Zone, Residential (LTCP) | | | 85 | -- | 1,100 | -- | -- | -- | 93 | -- | -- | -- | -- | |
| No Bio-Attenuation Zone, Commercial (LTCP) | | | 280 | -- | 3,600 | -- | -- | -- | 310 | -- | -- | -- | -- | |
| With Bio-Attenuation Zone, Residential (LTCP) | | | 85,000 | -- | 1,100,000 | -- | -- | -- | 93,000 | -- | -- | -- | -- | |
| With Bio-Attenuation Zone, Commercial (LTCP) | | | 280,000 | -- | 3,600,000 | -- | -- | -- | 310,000 | -- | -- | -- | -- | |
| Soil Gas Samples | | | | | | | | | | | | | | |
| SG-1 | 9/23/2016 | 5 - 6 | <3.3 | 5.7 | <4.4 | 13.6 | <7,170 | <3.7 | -- | <13 | <5,100 | -- | 17.7 | |
| SG-2 | 9/23/2016 | 5 - 6 | 12 | <3.8 | <4.4 | 23.9 | <7,170 | <3.7 | -- | <13 | <5,100 | -- | 19.8 | |
| Subslab Gas Samples | | | | | | | | | | | | | | |
| SS-1 | 11/14/2013 6/23/2015 | 0.5 - 0.7 0.5 - 0.7 | <1.6 | <1.9 | <2.2 | <6.6 | 2,300 --floor refinished, probe covered-- | <1.8 | <5.3 | -- | -- | 0.13 | 17 | For other VOC detections see the lab report. |
| SS-2 | 11/13/2013 6/23/2015 9/23/2016 | 0.5 - 0.7 0.5 - 0.7 0.5 - 0.7 | 58 <1.6 <3.3 | 2.7 3.7 <3.8 | <2.2 2.3 <4.4 | <6.6 14 <13.2 | 2,000 <720 <7,170 | <1.8 <1.8 <3.7 | <5.3 <5.3 -- | -- <50 <13 | -- -- <5,400 | 0.48 -- -- | 16 -- 20.4 | For other VOC detections see the lab report. For other VOC detections see the lab report. |
| SS-3 | 11/13/2013 6/23/2015 9/23/2016 | 0.8 - 1.0 0.8 - 1.0 0.8 - 1.0 | 71 <1.6 <3.3 | 2.6 3.3 4.0 | <2.2 <2.2 <4.4 | <6.6 13 13 | 1,400 1,100 <7,170 | <1.8 <1.8 <3.7 | <5.3 <5.3 -- | -- <50 <13 | -- -- <5,000 | 0.13 -- -- | 17 -- 20.5 | For other VOC detections see the lab report. For other VOC detections see the lab report. |

Abbreviations:

SG-1 = Soil Gas Sample

SS-1 = Subslab Sample

ug/m3 = Micrograms per cubic meter of air results calculated by laboratory from parts per billion results using normal temperature and pressure (NPT).

ft - ft bgs = Depth interval below ground surface (bgs) in feet.

% = Percent of total sample volume.

Volatile organic compounds (VOCs) by EPA Method TO-15 (partial list), uses GC/MS scan.

Oxygen by Modified ASTM Method D-1946, uses GC/TCD scan.

< n = Chemical not present at a concentration in excess of detection limit shown.

MRL = Method reporting limit. Laboratory reporting limit based on parts per billion on volume to volume basis (ppbv/v) and converted to ug/m3.

ESL = Environmental Screening Level, from California Regional Water Quality Control Board - San Francisco Bay Region, Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, Interim Revised February 2016 (Revision 3).

LTCP = Low Threat Closure Policy

Bold = Concentrations above Lowest ESLs for Commercial Land Use for shallow soil gas (SG & SS samples).

Table 3. SVE/AS System Performance Summary - 1721 Webster Street, Oakland, California

| Date | Sample ID | FIELD MEASUREMENTS | | | | ANALYTICAL RESULTS | | REMOVAL | | | | Air Sparge Unit on? (yes/no) | Comments |
|----------|-------------------------------|----------------------------|------------------------------|-----------------------------|----------------------|---------------------------|-----------------------------|---------------------------------|-----------------------------------|------------------------------------|--------------------------------------|------------------------------|--|
| | | Hour Meter Reading (hours) | System Vapor Flow Rate (cfm) | Vapor Applied Vacuum ("H2O) | FID Reading (ppm) | TPHg Lab Data (ppmv) | Benzene Lab Data (ppmv) | SVE TPHg Removal Rate (lbs/day) | Cumulative SVE TPHg Removal (lbs) | SVE Benzene Removal Rate (lbs/day) | Cumulative SVE Benzene Removal (lbs) | | |
| 10/29/07 | N/A | 1.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | no | System start up |
| 10/29/07 | SYS-INF SYS-MID SYS-EFF | 1.5 | 104 | 68 | 3,400 8 0 | 9,600 23 27 | 76 ND<0.077 0.15 | 320.3 | 6.7 | 2.30 | 0.05 | no | |
| 10/30/07 | SYS-INF SYS-MID SYS-EFF | 24.3 | 50 | 27 | 37,000 635 700 | 9,000 ND<7.0 60 | 74 ND<0.077 0.29 | 144.4 | 143.8 | 1.08 | 1.07 | no | Readings upon arrival |
| 10/30/07 | SYS-INF SYS-MID SYS-EFF | 25.2 | 45 | 27 | 3,200 620 530 | 1,500 ND<7.0 ND<7.0 | 11 ND<0.077 ND<0.077 | 21.7 | 144.6 | 0.14 | 1.08 | no | readings after dilution air introduced to reduce noise and limit hydrocarocarbon loading on carbon (prevent thermal excursion/fire). |
| 10/31/07 | SYS-INF SYS-MID SYS-EFF | 48.8 | 40 | 27 | 922* 0* 0* | 880 ND<7.0 ND<7.0 | 8.6 ND<0.077 ND<0.077 | 11.3 | 155.7 | 0.10 | 1.17 | no | Dilution airflow set at ~25% of total flow |
| 11/01/07 | SYS-INF SYS-MID SYS-EFF | 78.8 | 39 | 27 | 1,475 14 9 | --- --- --- | --- --- --- | 11.0 | 169.5 | 0.10 | 1.30 | no | |
| 11/02/07 | SYS-INF SYS-MID SYS-EFF | 100.2 | 40 | 27 | 736 19 10 | --- --- --- | --- --- --- | 11.3 | 179.6 | 0.10 | 1.39 | no | Shut system down at 100.5 hours for weekend |
| 11/05/07 | SYS-INF SYS-MID SYS-EFF | 100.9 | 38 | 27 | 1,546 30 4 | --- --- --- | --- --- --- | 10.7 | 179.9 | 0.10 | 1.39 | no | Restart system at 100.5 hours on 11/5/07 |
| 11/06/07 | SYS-INF SYS-MID SYS-EFF | 126.7 | 38 | 27 | 213 0 0 | --- --- --- | --- --- --- | 10.7 | 191.4 | 0.10 | 1.49 | no | |
| 11/07/07 | SYS-INF SYS-MID SYS-EFF | 154.7 | 45 | 27 | 170 0 0 | --- --- --- | --- --- --- | 12.7 | 206.2 | 0.11 | 1.62 | no | |

Table 3. SVE/AS System Performance Summary - 1721 Webster Street, Oakland, California

| Date | Sample ID | FIELD MEASUREMENTS | | | | ANALYTICAL RESULTS | | REMOVAL | | | | Air Sparge Unit on? (yes/no) | Comments | |
|----------|-------------------------------|----------------------------|------------------------------|-----------------------|-------------------|----------------------|-------------------------|---------------------------------|-----------------------------------|------------------------------------|--------------------------------------|------------------------------|----------|--|
| | | Hour Meter Reading (hours) | System Vapor Flow Rate (cfm) | Applied Vacuum ("H2O) | FID Reading (ppm) | TPHg Lab Data (ppmv) | Benzene Lab Data (ppmv) | SVE TPHg Removal Rate (lbs/day) | Cumulative SVE TPHg Removal (lbs) | SVE Benzene Removal Rate (lbs/day) | Cumulative SVE Benzene Removal (lbs) | | | |
| 11/08/07 | SYS-INF SYS-MID SYS-EFF | 178.2 | 47 | 27 | 160 0 0 | --- --- --- | --- | --- | 13.3 | 219.2 | 0.12 | 1.74 | no | Lab analysis performed for methane; 2.4 ul/L detected in SYS EFF |
| 11/09/07 | SYS-INF SYS-MID SYS-EFF | 200.3 | 45 | 31 | 163 0 0 | --- --- --- | --- | --- | 12.7 | 230.9 | 0.11 | 1.84 | no | Shut system down at 200.3 hours for weekend |
| 11/12/07 | SYS-INF SYS-MID SYS-EFF | 206.3 | 42 | 28 | 211 0 2 | --- --- --- | --- | --- | 11.9 | 233.9 | 0.11 | 1.87 | yes | Restart system at 200.3 hours on 11/12/07; start air sparge system |
| 11/13/07 | SYS-INF SYS-MID SYS-EFF | 225.6 | 46 | 28 | 2,937 0 4 | --- --- --- | --- | --- | 13.0 | 244.3 | 0.12 | 1.96 | yes | |
| 11/14/07 | SYS-INF SYS-MID SYS-EFF | 253.0 | 45 | 28 | 4,113 0 0 | --- --- --- | --- | --- | 12.7 | 258.9 | 0.11 | 2.09 | yes | |
| 11/15/07 | SYS-INF SYS-MID SYS-EFF | 278.4 | 45 | 28 | 2,810 0 0 | --- --- --- | --- | --- | 12.7 | 272.3 | 0.11 | 2.21 | yes | |
| 11/16/07 | SYS-INF SYS-MID SYS-EFF | 301.4 | 43 | 28 | 2,570 0 0 | --- --- --- | --- | --- | 12.1 | 283.9 | 0.11 | 2.31 | yes | |
| 11/17/07 | SYS-INF SYS-MID SYS-EFF | 327.1 | 42 | 41 | 11 0 0 | --- --- --- | --- | --- | 11.9 | 296.6 | 0.11 | 2.42 | yes | |
| 11/18/07 | SYS-INF SYS-MID SYS-EFF | 352.1 | 44 | 41 | 530 0 0 | --- --- --- | --- | --- | 12.4 | 309.6 | 0.11 | 2.54 | yes | |
| 11/19/07 | SYS-INF SYS-MID SYS-EFF | 375.2 | 42 | 41 | 24 0 0 | 22 --- --- | <0.077 --- --- | --- | 0.3 | 309.9 | 0.00 | 2.54 | yes | |

Table 3. SVE/AS System Performance Summary - 1721 Webster Street, Oakland, California

| Date | Sample ID | FIELD MEASUREMENTS | | | | ANALYTICAL RESULTS | | REMOVAL | | | | Air Sparge Unit on? (yes/no) | Comments | |
|------------|-------------------------------|----------------------------|------------------------------|-----------------------------|-------------------|----------------------|----------------------------|----------------------------|-----------------------------------|------------------------------------|--------------------------------------|------------------------------|----------|---|
| | | Hour Meter Reading (hours) | System Vapor Flow Rate (cfm) | Vapor Applied Vacuum ("H2O) | FID Reading (ppm) | TPHg Lab Data (ppmv) | Benzene Lab Data (ppmv) | SVE Removal Rate (lbs/day) | Cumulative SVE TPHg Removal (lbs) | SVE Benzene Removal Rate (lbs/day) | Cumulative SVE Benzene Removal (lbs) | | | |
| 11/20/07 | SYS-INF SYS-MID SYS-EFF | 398.8 | 49 | 68 | 660 0 0 | --- --- --- | --- | --- | 0.3 | 310.2 | 0.00 | 2.54 | yes | Increased system vacuum by closing off recirculation valve on blower. |
| 11/26/07 | SYS-INF SYS-MID SYS-EFF | 426.3 | 49 | 68 | 1,800 0 0 | --- --- --- | --- | --- | 0.3 | 310.6 | 0.00 | 2.54 | yes | Received verbal approval from BAAQMD to decrease monitoring from daily to weekly. |
| 12/03/07 | SYS-INF SYS-MID SYS-EFF | 593.5 | 48 | 61 | 1,300 0 0 | --- --- --- | --- | --- | 0.3 | 313.0 | 0.00 | 2.54 | yes | |
| 12/14/07 | SYS-INF SYS-MID SYS-EFF | 853.0 | 52 | 54 | 280 0 0 | 280 <7.0 <7.0 | 0.17 <0.077 <0.077 | --- | 4.7 | 363.5 | 0.003 | 2.57 | yes | |
| 12/21/07 | SYS-INF SYS-MID SYS-EFF | 1,021.5 | 58 | 54 | 0 0 0 | 170 <7.0 <7.0 | 0.14 <0.077 <0.077 | --- | 3.2 | 385.7 | 0.00 | 2.58 | yes | SVE shutdown after reading, restarted |
| 12/27/07 | SYS-INF SYS-MID SYS-EFF | 1,163.5 | 40 | 54 | NM NM NM | --- --- --- | --- | --- | 2.2 | 398.6 | 0.00 | 2.59 | yes | SVE shutdown on arrival, restart and monitor |
| 12/28/07 | SYS-INF SYS-MID SYS-EFF | 1,188.5 | 50 | 54 | 14 0 0 | 14 <7.0 <7.0 | <0.077 <0.077 <0.077 | --- | 0.2 | 398.8 | 0.00 | 2.59 | yes | |
| 01/03/08 | SYS-INF SYS-MID SYS-EFF | 1,329.5 | 51 | 54 | 50 0 0 | 50 15 <7.0 | <0.077 <0.077 <0.077 | --- | 0.8 | 403.6 | 0.00 | 2.59 | yes | |
| 01/10/08 | SYS-INF SYS-MID SYS-EFF | 1,430.2 | 50 | 54 | 0 0 0 | 16 13 <7.0 | <0.077 <0.077 <0.077 | --- | 0.3 | 404.7 | 0.00 | 2.59 | no | AS system off while sampling |
| 1/15/2008* | SYS-INF SYS-MID SYS-EFF | 1,546.0 | 50 | 81 | -- | 1,200 7.7 <7.0 | 2.1 <0.077 <0.077 | --- | 19.2 | 497.6 | 0.03 | 2.74 | yes | |

Table 3. SVE/AS System Performance Summary - 1721 Webster Street, Oakland, California

| Date | Sample ID | FIELD MEASUREMENTS | | | | ANALYTICAL RESULTS | | REMOVAL | | | | Air Sparge Unit on? (yes/no) | Comments |
|------------|-------------------------------|----------------------------|------------------------------|-----------------------|-------------------|-----------------------|-------------------------|----------------------------|-----------------------------------|------------------------------------|--------------------------------------|------------------------------|--|
| | | Hour Meter Reading (hours) | System Vapor Flow Rate (cfm) | Applied Vacuum ("H2O) | FID Reading (ppm) | TPHg Lab Data (ppmv) | Benzene Lab Data (ppmv) | SVE Removal Rate (lbs/day) | Cumulative SVE TPHg Removal (lbs) | SVE Benzene Removal Rate (lbs/day) | Cumulative SVE Benzene Removal (lbs) | | |
| 1/23/2008* | SYS-INF SYS-MID SYS-EFF | 1,694.5 | 50 | 95 | -- | 1,300 11 <7.0 | 1.6 <0.077 <0.077 | 20.9 | 626.6 | 0.02 | 2.88 | yes | |
| 01/30/08 | SYS-INF SYS-MID SYS-EFF | 1,864.6 | 49 | 81 | -- | 2,300 24 <7.0 | 2.6 <0.077 <0.077 | 36.2 | 882.9 | 0.04 | 3.15 | yes | |
| 02/06/08 | SYS-INF SYS-MID SYS-EFF | 2,027.5 | 50 | 81 | -- | 1,700 43 <7.0 | 2.9 <0.077 <0.077 | 27.3 | 1,068.0 | 0.04 | 3.43 | yes | |
| 02/12/08 | SYS-INF SYS-MID SYS-EFF | 2,173.3 | 60 | 95 | -- | 1,500 520 28 | 1.7 1.1 <0.077 | 28.9 | 1,243.4 | 0.03 | 3.61 | yes | |
| 02/21/08 | SYS-INF SYS-MID SYS-EFF | 2,394.1 | 65 | 95 | -- | --- | --- | 31.3 | 1,531.2 | 0.03 | 3.91 | yes | Samples not picked up by the courier before hold time expired. |
| 02/29/08 | SYS-INF SYS-MID SYS-EFF | 2,580.5 | 27 | 95 | -- | 1,100 890 <7.0 | 1.4 5.3 <0.077 | 9.5 | 1,605.2 | 0.01 | 3.99 | yes | System shut down for future changeout of carbon in first vessel. |
| 04/07/08 | SYS-INF SYS-MID SYS-EFF | 2,581.4 | 44 | 7.5 | -- | 1,100 --- | 1.4 --- | 15.5 | 1,605.8 | 0.02 | 3.99 | yes | Restart system after carbon changeout |
| 04/10/08 | SYS-INF SYS-MID SYS-EFF | 2,650.3 | 26 | 7 | -- | 1,200 <7.0 <7.0 | 3.6 <0.077 <0.077 | 10.0 | 1,634.5 | 0.03 | 4.07 | yes | |
| 04/17/08 | SYS-INF SYS-MID SYS-EFF | 2,826.1 | 28 | 8 | 962 3 3 | --- | --- | 10.8 | 1,713.5 | 0.03 | 4.29 | yes | |
| 04/23/08 | SYS-INF SYS-MID SYS-EFF | 2,969.4 | 26 | 7.5 | -- | 1,100 <7.0 <7.0 | 1.5 <0.077 <0.077 | 9.2 | 1,768.2 | 0.01 | 4.36 | yes | |

Table 3. SVE/AS System Performance Summary - 1721 Webster Street, Oakland, California

| Date | Sample ID | FIELD MEASUREMENTS | | | | ANALYTICAL RESULTS | | REMOVAL | | | | Air Sparge Unit on? (yes/no) | Comments |
|----------|-------------------------------|----------------------------|------------------------------|-----------------------|-------------------|----------------------|-------------------------|---------------------------------|-----------------------------------|------------------------------------|--------------------------------------|------------------------------|----------|
| | | Hour Meter Reading (hours) | System Vapor Flow Rate (cfm) | Applied Vacuum ("H2O) | FID Reading (ppm) | TPHg Lab Data (ppmv) | Benzene Lab Data (ppmv) | SVE TPHg Removal Rate (lbs/day) | Cumulative SVE TPHg Removal (lbs) | SVE Benzene Removal Rate (lbs/day) | Cumulative SVE Benzene Removal (lbs) | | |
| 04/30/08 | SYS-INF SYS-MID SYS-EFF | 3,136.8 | 23 | 7.5 | -- | 780 <7.0 <7.0 | 1.4 <0.077 <0.077 | 5.8 | 1,808.4 | 0.01 | 4.42 | yes | |
| 05/07/08 | SYS-INF SYS-MID SYS-EFF | 3,304.6 | 28 | 8 | 378 0 0 | --- --- --- | --- --- --- | 7.0 | 1,857.4 | 0.01 | 4.50 | yes | |
| 05/14/08 | SYS-INF SYS-MID SYS-EFF | 3,472.2 | 26 | 8 | 523 6 0 | --- --- --- | --- --- --- | 6.5 | 1,902.8 | 0.01 | 4.57 | yes | |
| 05/23/08 | SYS-INF SYS-MID SYS-EFF | 3,690.2 | 28 | 7 | 264 0 0 | --- --- --- | --- --- --- | 7.0 | 1,966.5 | 0.01 | 4.68 | yes | |
| 05/30/08 | SYS-INF SYS-MID SYS-EFF | 3,859.2 | 36 | 7 | 317 1 0 | --- --- --- | --- --- --- | 9.0 | 2,029.9 | 0.01 | 4.78 | yes | |
| 06/05/08 | SYS-INF SYS-MID SYS-EFF | 3,999.6 | 38 | 7 | 350 0 0 | --- --- --- | --- --- --- | 9.5 | 2,085.5 | 0.02 | 4.87 | yes | |
| 06/13/08 | SYS-INF SYS-MID SYS-EFF | 4,193.1 | 38 | 7 | -- | 700 <7.0 <7.0 | 1.6 <0.077 <0.077 | 8.5 | 2,154.3 | 0.02 | 5.01 | yes | |
| 06/19/08 | SYS-INF SYS-MID SYS-EFF | 4336.7 | 25 | 7 | 349 -- 0 | --- --- --- | --- --- --- | 5.6 | 2,187.9 | 0.01 | 5.08 | yes | |
| 06/27/08 | SYS-INF SYS-MID SYS-EFF | 4,529.7 | 25 | 7 | 335 0 0 | --- --- --- | --- --- --- | 5.6 | 2,233.1 | 0.01 | 5.18 | yes | |
| 07/10/08 | SYS-INF SYS-MID SYS-EFF | 4,839.0 | 56 | 8 | 256 40 0 | --- --- --- | --- --- --- | 12.6 | 2,395.2 | 0.03 | 5.51 | yes | |

Table 3. SVE/AS System Performance Summary - 1721 Webster Street, Oakland, California

| Date | Sample ID | FIELD MEASUREMENTS | | | | ANALYTICAL RESULTS | | REMOVAL | | | | Air Sparge Unit on? (yes/no) | Comments |
|-------------|-----------|----------------------------|------------------------------|-----------------------------|-------------------|----------------------|-------------------------|----------------------------|-------------------------------|------------------------------------|--------------------------------------|------------------------------|----------|
| | | Hour Meter Reading (hours) | System Vapor Flow Rate (cfm) | Vapor Applied Vacuum ("H2O) | FID Reading (ppm) | TPHg Lab Data (ppmv) | Benzene Lab Data (ppmv) | SVE Removal Rate (lbs/day) | TPHg Cumulative Removal (lbs) | SVE Benzene Removal Rate (lbs/day) | Cumulative SVE Benzene Removal (lbs) | | |
| 07/18/08 | SYS-INF | 5,032.0 | 33 | 8 | 330 | --- | 7.4 | 2,454.8 | 0.02 | 5.64 | yes | | |
| | SYS-MID | | | | 174 | --- | | | | | | | |
| | SYS-EFF | | | | 0 | --- | | | | | | | |
| 7/24/2008** | SYS-INF | 5,178.0 | 33 | 8 | 360 | --- | 7.4 | 2,499.8 | 0.02 | 5.73 | yes | | |
| | SYS-MID | | | | 187 | --- | | | | | | | |
| | SYS-EFF | | | | 0 | --- | | | | | | | |
| 8/1/2008** | SYS-INF | 5,368.0 | 33 | 8 | 248 | --- | 7.4 | 2,558.5 | 0.02 | 5.85 | yes | | |
| | SYS-MID | | | | 193 | --- | | | | | | | |
| | SYS-EFF | | | | 0 | --- | | | | | | | |
| 8/8/2008** | SYS-INF | 5,536.7 | 17 | 4.5 | 146 | --- | 3.8 | 2,585.3 | 0.01 | 5.91 | yes | | |
| | SYS-MID | | | | 153 | --- | | | | | | | |
| | SYS-EFF | | | | 0 | --- | | | | | | | |
| 8/18/2008** | SYS-INF | 5,774.1 | 17 | 4.5 | 365 | 840 | 4.6 | 2,630.7 | 0.01 | 5.96 | yes | | |
| | SYS-MID | | | | 170 | 140 | | | | | | | |
| | SYS-EFF | | | | 0 | <7.0 | | | | | | | |
| 08/22/08 | SYS-INF | 5,873.9 | 17 | 4 | 325 | --- | 4.6 | 2,649.7 | 0.01 | 5.98 | yes | | |
| | SYS-MID | | | | 207 | --- | | | | | | | |
| | SYS-EFF | | | | 0 | --- | | | | | | | |
| 09/05/08 | SYS-INF | 6,208.4 | 14 | 5 | 385 | --- | 3.6 | 2,700.4 | 0.004 | 6.05 | yes | | |
| | SYS-MID | | | | 219 | --- | | | | | | | |
| | SYS-EFF | | | | 23 | --- | | | | | | | |
| 10/06/08 | SYS-INF | 6,211.0 | 13 | 5 | 443 | 1,000 | 3.4 | 2,700.8 | 0.004 | 6.05 | yes | | |
| | SYS-MID | | | | 23 | --- | | | | | | | |
| | SYS-EFF | | | | 0 | <7.0 | | | | | | | |
| 10/14/08 | SYS-INF | 6,405.0 | 15 | 5 | 215 | --- | 4.7 | 2,738.4 | 0.00 | 6.05 | yes | | |
| | SYS-MID | | | | 0 | --- | | | | | | | |
| | SYS-EFF | | | | 0 | --- | | | | | | | |
| 10/23/08 | SYS-INF | 6,615.7 | 14 | 5 | 205 | --- | 4.5 | 2,777.8 | 0.01 | 6.11 | yes | | |
| | SYS-MID | | | | 0 | --- | | | | | | | |
| | SYS-EFF | | | | 0 | --- | | | | | | | |

Table 3. SVE/AS System Performance Summary - 1721 Webster Street, Oakland, California

| Date | Sample ID | FIELD MEASUREMENTS | | | | ANALYTICAL RESULTS | | REMOVAL | | | | Air Sparge Unit on? (yes/no) | Comments |
|----------|-----------|----------------------------|------------------------------|----------------------|-------------------|----------------------|-------------------------|----------------------------|-----------------------------------|------------------------------------|--------------------------------------|------------------------------|----------|
| | | Hour Meter Reading (hours) | System Vapor Flow Rate (cfm) | Vapor Applied ("H2O) | FID Reading (ppm) | TPHg Lab Data (ppmv) | Benzene Lab Data (ppmv) | SVE Removal Rate (lbs/day) | Cumulative SVE TPHg Removal (lbs) | SVE Benzene Removal Rate (lbs/day) | Cumulative SVE Benzene Removal (lbs) | | |
| 10/29/08 | SYS-INF | 6,760.3 | 21 | 5 | 160 | --- | --- | 6.6 | 2,817.5 | 0.01 | 6.17 | yes | |
| | SYS-MID | | | | 0 | --- | --- | | | | | | |
| | SYS-EFF | | | | 0 | --- | --- | | | | | | |
| 11/17/08 | SYS-INF | 7,221.4 | 20 | 5 | 98 | --- | --- | 6.3 | 2,937.6 | 0.01 | 6.37 | yes | |
| | SYS-MID | | | | 0 | --- | --- | | | | | | |
| | SYS-EFF | | | | 0 | --- | --- | | | | | | |
| 11/25/08 | SYS-INF | 7,413.9 | 19 | 5 | 24 | --- | --- | 6.1 | 2,986.5 | 0.01 | 6.45 | yes | |
| | SYS-MID | | | | 0 | --- | --- | | | | | | |
| | SYS-EFF | | | | 0 | --- | --- | | | | | | |
| 12/05/08 | SYS-INF | 7,652.3 | 15 | 5 | 74 | --- | --- | 4.8 | 3,034.3 | 0.01 | 6.53 | yes | |
| | SYS-MID | | | | 0 | --- | --- | | | | | | |
| | SYS-EFF | | | | 0 | --- | --- | | | | | | |
| 12/16/08 | SYS-INF | 7,915.0 | 15 | 5 | 21 | 77 | <0.077 | 0.4 | 3,038.4 | 0.00 | 6.53 | yes | |
| | SYS-MID | | | | 0 | --- | --- | | | | | | |
| | SYS-EFF | | | | 0 | <7.0 | <0.077 | | | | | | |
| 12/23/08 | SYS-INF | 8,079.4 | 20 | 5 | 22 | --- | --- | 0.5 | 3,041.7 | 0.00 | 6.53 | yes | |
| | SYS-MID | | | | 0 | --- | --- | | | | | | |
| | SYS-EFF | | | | 0 | --- | --- | | | | | | |
| 12/31/08 | SYS-INF | 8,277.1 | 30 | 5 | 24 | --- | --- | 0.7 | 3,047.8 | 0.00 | 6.53 | yes | |
| | SYS-MID | | | | 0 | --- | --- | | | | | | |
| | SYS-EFF | | | | 0 | --- | --- | | | | | | |
| 01/06/09 | SYS-INF | 8,416.9 | 27 | 5 | 28 | --- | --- | 0.7 | 3,051.6 | 0.00 | 6.53 | yes | |
| | SYS-MID | | | | 0 | --- | --- | | | | | | |
| | SYS-EFF | | | | 0 | --- | --- | | | | | | |
| 01/20/09 | SYS-INF | 8,756.6 | 27 | 5 | NM | --- | --- | 0.7 | 3,061.1 | 0.00 | 6.53 | yes | |
| | SYS-MID | | | | --- | --- | --- | | | | | | |
| | SYS-EFF | | | | --- | --- | --- | | | | | | |
| 02/06/09 | SYS-INF | 8,756.6 | 25 | 5 | 50 | 50 | <0.077 | 0.4 | 3,061.1 | 0.00 | 6.53 | yes | |
| | SYS-MID | | | | 0 | --- | --- | | | | | | |
| | SYS-EFF | | | | 0 | --- | --- | | | | | | |

Table 3. SVE/AS System Performance Summary - 1721 Webster Street, Oakland, California

| Date | Sample ID | FIELD MEASUREMENTS | | | | ANALYTICAL RESULTS | | REMOVAL | | | | Air Sparge Unit on? (yes/no) | Comments |
|----------|-----------|----------------------------|------------------------------|-----------------------------|-------------------|----------------------------------|-------------------------|---|---|------------------------------------|--------------------------------------|------------------------------|---------------------------------|
| | | Hour Meter Reading (hours) | System Vapor Flow Rate (cfm) | Vapor Applied Vacuum ("H2O) | FID Reading (ppm) | TPH _g Lab Data (ppmv) | Benzene Lab Data (ppmv) | SVE TPH _g Removal Rate (lbs/day) | Cumulative SVE TPH _g Removal (lbs) | SVE Benzene Removal Rate (lbs/day) | Cumulative SVE Benzene Removal (lbs) | | |
| 02/26/09 | SYS-INF | 9,002.6 | 22 | 5 | 13 | --- | --- | 0.3 | 3,064.6 | 0.00 | 6.53 | yes | Restart system, off on arrival |
| | SYS-MID | | | | 1 | --- | --- | | | | | | |
| | SYS-EFF | | | | 0 | --- | --- | | | | | | |
| 03/06/09 | SYS-INF | 9,197.4 | 23 | 5 | 5 | --- | --- | 0.4 | 3,067.6 | 0.00 | 6.53 | yes | |
| | SYS-MID | | | | 0 | --- | --- | | | | | | |
| | SYS-EFF | | | | 0 | --- | --- | | | | | | |
| 03/13/09 | SYS-INF | 9,360.4 | 22 | 5 | NM | 20 | <0.077 | 0.1 | 3,068.5 | 0.00 | 6.53 | yes | |
| | SYS-MID | | | | NM | <7.0 | <0.077 | | | | | | |
| | SYS-EFF | | | | NM | <7.0 | <0.077 | | | | | | |
| 03/18/09 | SYS-INF | 9,480.4 | 21 | 5 | 5 | --- | --- | 0.1 | 3,069.2 | 0.00 | 6.53 | yes | |
| | SYS-MID | | | | 0 | --- | --- | | | | | | |
| | SYS-EFF | | | | 0 | --- | --- | | | | | | |
| 03/26/09 | SYS-INF | 9,675.1 | 21 | 5 | 5 | --- | --- | 0.1 | 3,070.3 | 0.00 | 6.53 | yes | |
| | SYS-MID | | | | 0 | --- | --- | | | | | | |
| | SYS-EFF | | | | 0 | --- | --- | | | | | | |
| 04/03/09 | SYS-INF | 9,868.7 | 21 | 5 | 4 | --- | --- | 0.1 | 3,071.4 | 0.00 | 6.53 | yes | |
| | SYS-MID | | | | 0 | --- | --- | | | | | | |
| | SYS-EFF | | | | 0 | --- | --- | | | | | | |
| 04/10/09 | SYS-INF | 10,035.7 | 22 | 5 | 1 | --- | --- | 0.1 | 3,072.4 | 0.00 | 6.53 | yes | |
| | SYS-MID | | | | 0 | --- | --- | | | | | | |
| | SYS-EFF | | | | 0 | --- | --- | | | | | | |
| 04/17/09 | SYS-INF | 10,203.7 | 21 | 5 | 4 | --- | --- | 0.1 | 3,073.3 | 0.00 | 6.53 | yes | |
| | SYS-MID | | | | 0 | --- | --- | | | | | | |
| | SYS-EFF | | | | 0 | --- | --- | | | | | | |
| 04/24/09 | SYS-INF | 10,366.7 | 19 | 5 | 4 | --- | --- | 0.1 | 3,074.2 | 0.00 | 6.53 | yes | Shut AS/SVE off for upcoming QM |
| | SYS-MID | | | | 0 | --- | --- | | | | | | |
| | SYS-EFF | | | | 0 | --- | --- | | | | | | |
| 05/01/09 | SYS-INF | 10,366.7 | 20 | 5 | 3 | --- | --- | 0.1 | 3,074.2 | 0.00 | 6.53 | yes | Restart SVE/AS |
| | SYS-MID | | | | 0 | --- | --- | | | | | | |
| | SYS-EFF | | | | 0 | --- | --- | | | | | | |
| 05/08/09 | SYS-INF | 10,543.3 | 21 | 5 | 15 | --- | --- | 0.1 | 3,075.1 | 0.00 | 6.53 | yes | |
| | SYS-MID | | | | 0 | --- | --- | | | | | | |
| | SYS-EFF | | | | 0 | --- | --- | | | | | | |
| 05/15/09 | SYS-INF | 10,711.8 | 20 | 5 | 32 | --- | --- | 0.1 | 3,076.0 | 0.00 | 6.53 | yes | |
| | SYS-MID | | | | 0 | --- | --- | | | | | | |
| | SYS-EFF | | | | 0 | --- | --- | | | | | | |

Table 3. SVE/AS System Performance Summary - 1721 Webster Street, Oakland, California

| Date | Sample ID | FIELD MEASUREMENTS | | | | ANALYTICAL RESULTS | | REMOVAL | | | | Air Sparge Unit on? (yes/no) | Comments | |
|----------|-------------------------------|----------------------------|------------------------------|-----------------------|-------------------|----------------------|--------------------------|---------------------------------|-----------------------------------|------------------------------------|--------------------------------------|------------------------------|----------|--|
| | | Hour Meter Reading (hours) | System Vapor Flow Rate (cfm) | Applied Vacuum ("H2O) | FID Reading (ppm) | TPHg Lab Data (ppmv) | Benzene Lab Data (ppmv) | SVE TPHg Removal Rate (lbs/day) | Cumulative SVE TPHg Removal (lbs) | SVE Benzene Removal Rate (lbs/day) | Cumulative SVE Benzene Removal (lbs) | | | |
| 05/22/09 | SYS-INF SYS-MID SYS-EFF | 10,879.5 | 0 | 0 | NM NM NM | --- --- --- | --- | --- | 0.0 | 3,076.0 | 0.00 | 6.53 | no | AS compressor down; shut SVE off |
| 09/18/09 | SYS-INF SYS-MID SYS-EFF | 10,879.5 | 22 | 5 | 41 0 0 | --- --- --- | --- | --- | 0.1 | 3,076.0 | 0.00 | 6.53 | yes | Restart AS and SVE after repairing AS comp |
| 10/30/09 | SYS-INF SYS-MID SYS-EFF | 11,889.8 | 20 | 5 | 35 0 0 | --- --- --- | --- | --- | 0.1 | 3,081.5 | 0.00 | 6.53 | no | SVE on, AS comp has blown fuse |
| 11/30/09 | SYS-INF SYS-MID SYS-EFF | 12,631.8 | 20 | 5 | 31 0 0 | --- --- --- | --- | --- | 0.1 | 3,085.4 | 0.00 | 6.53 | yes | Replace fuse, restart AS |
| 12/16/09 | SYS-INF SYS-MID SYS-EFF | 13,017.6 | 22 | 5 | 22 0 0 | --- --- --- | --- | --- | 0.1 | 3,087.7 | 0.00 | 6.53 | yes | |
| 01/18/10 | SYS-INF SYS-MID SYS-EFF | 13,808.6 | 24 | 5 | 27 0 0 | --- --- --- | --- | --- | 0.2 | 3,092.8 | 0.00 | 6.53 | yes | |
| 02/03/10 | SYS-INF SYS-MID SYS-EFF | 14,193.0 | 12 | 4 | 34 0 0 | 72 <7.0 <7.0 | 0.25 <0.077 <0.077 | --- | 0.3 | 3,097.2 | 0.00 | 6.53 | yes | Serviced SVE blower, collected lab samples |
| 04/07/10 | SYS-INF SYS-MID SYS-EFF | 15,701.1 | 12 | 5 | 45 0 0 | --- --- --- | --- | --- | 0.3 | 3,114.6 | 0.00 | 6.58 | no | AS off, compressor non-op |
| 05/07/10 | SYS-INF SYS-MID SYS-EFF | 16,425.2 | 27 | 0 | 43 0 0 | --- --- --- | --- | --- | 0.6 | 3,133.4 | 0.00 | 6.64 | no | AS off, compressor non-op |
| 06/07/10 | SYS-INF SYS-MID SYS-EFF | 17,168.0 | 27 | 0 | 46 0 0 | 84 <7.0 <7.0 | 0.29 <0.077 <0.077 | --- | 0.7 | 3,155.5 | 0.00 | 6.71 | no | AS off, compressor non-op |
| 07/15/10 | SYS-INF SYS-MID SYS-EFF | 18,075.8 | 23 | 0 | 4 2 0 | --- --- --- | --- | --- | 0.6 | 3,179.1 | 0.00 | 6.79 | no | AS off, compressor non-op |
| 08/18/10 | SYS-INF SYS-MID SYS-EFF | 18,434.1 | 30 | 0 | 26 2 0 | --- --- --- | --- | --- | 0.8 | 3,191.3 | 0.00 | 6.82 | no | Restart system, off on arrival |

Table 3. SVE/AS System Performance Summary - 1721 Webster Street, Oakland, California

| Date | Sample ID | FIELD MEASUREMENTS | | | | ANALYTICAL RESULTS | | REMOVAL | | | | Air Sparge Unit on? (yes/no) | Comments |
|----------|-----------|----------------------------|------------------------------|-----------------------|-------------------|----------------------|-------------------------|---------------------------------|-----------------------------------|------------------------------------|--------------------------------------|------------------------------|--|
| | | Hour Meter Reading (hours) | System Vapor Flow Rate (cfm) | Applied Vacuum ("H2O) | FID Reading (ppm) | TPHg Lab Data (ppmv) | Benzene Lab Data (ppmv) | SVE TPHg Removal Rate (lbs/day) | Cumulative SVE TPHg Removal (lbs) | SVE Benzene Removal Rate (lbs/day) | Cumulative SVE Benzene Removal (lbs) | | |
| 09/22/10 | SYS-INF | 19,173.6 | 25 | 0 | 17 | 66 | 0.21 | 0.5 | 3,208.0 | 0.00 | 6.87 | no | Restart system, off on arrival |
| | SYS-MID | | | | 2 | <7.0 | <0.077 | | | | | | |
| | SYS-EFF | | | | 0 | <7.0 | <0.077 | | | | | | |
| 10/22/10 | SYS-INF | 19,345.1 | 25 | 0 | 14 | --- | --- | 0.5 | 3,211.8 | 0.00 | 6.88 | no | Restart system, off on arrival |
| | SYS-MID | | | | 1 | --- | --- | | | | | | |
| | SYS-EFF | | | | 0 | --- | --- | | | | | | |
| 11/23/10 | SYS-INF | 19,395.5 | 0 | 0 | NM | --- | --- | 0.0 | 3,211.8 | 0.00 | 6.88 | no | Off on arrival, system shutdown October 26, 2010 for rainy season. |
| | SYS-MID | | | | NM | --- | --- | | | | | | |
| | SYS-EFF | | | | NM | --- | --- | | | | | | |

Notes:

NM = not measured

cfm = cubic feet per minute.

ppmv = Parts per million by volume

lbs = Pounds

"H2O = Inches of water

SVE/AS = Soil vapor extraction and air sparge

FID = Flame Ionization Detector.

Hydrocarbon Removal/Emission Rate = Rate based on Bay Area Air Quality Management District's Manual of Procedures for Soil Vapor Extraction dated July 17, 1991.

Rate = vapor analytical concentration (ppmv) x system flowrate (scfm) x (1lb-mole/386 ft³) x molecular weight (86 lb/lb-mole for TPH-Gas hexane) x 1440 min/day x 1/1,000,000.

* = Subtracted carbon tip readings of 28, 17, and 10, respectively, from influent, midpoint and effluent readings without carbon tip to account for methane.

(--) = not sampled

*Soil vapor flow rates were not measured on 1/15/08 and 1/23/08 due to equipment breakage. For hydrocarbon mass removal calculation purposes, the flow rate recorded during the 1/10/08 visit was used.

**Vapor flow meter being serviced from 7-24-2008 through 8-18-2008. Flow rates assumed from previous data, field observations, and adjustments made to system.

APPENDIX A

Groundwater Monitoring Program

Table A - Groundwater Monitoring Program
Douglas Parking Company, 1721 Webster Street, Oakland, CA.

| Well ID | Well Type | Screened Interval (ft bgs) | Well Location for Monitoring | Casing Diam. (in) | Gauge Frequency | Sample Frequency | TPHg/BTEX/MTBE | TAME/TBA/DIPE/ETBE/MTBE |
|--|-----------|----------------------------|------------------------------|-------------------|-----------------|------------------|----------------|-------------------------|
| Onsite Monitoring and Remediation Wells | | | | | | | | |
| MW-1 | Mon | 17-30 | Source Area | 2 | 1st, 3rd | 1st | 1st | --- |
| MW-2 | Mon | 19.5-29.5 | Downgradient | 2 | 1st, 3rd | 1st, 3rd | 1st, 3rd | --- |
| MW-3 | Mon | 20-30 | Upgradient | 2 | 1st, 3rd | 1st, 3rd | 1st, 3rd | --- |
| AS-1 | Rem | 27-30 | Source Area | 1 | --- | --- | --- | --- |
| AS-2 | Rem | 27-30 | Source Area | 2 | --- | --- | --- | --- |
| AS-3 | Rem | 27-30 | Source Area | 2 | --- | --- | --- | --- |
| Offsite Monitoring Wells | | | | | | | | |
| MW-4 | Mon | 15-30 | Mid-Downgradient | 2 | 1st, 3rd | 1st, 3rd | 1st, 3rd | --- |
| MW-5 | Mon | 10-25 | Downgradient | 2 | 1st, 3rd | 1st | 1st | --- |
| MW-6 | Mon | 15-30 | Crossgradient | 2 | 1st, 3rd | 1st, 3rd | 1st, 3rd | --- |
| MW-7 | Mon | 15-30 | Upgradient | 2 | 1st, 3rd | 1st | 1st | --- |

Notes and Abbreviations:

1st = Sampled during the 1st quarter, typically January

1st, 3rd = Sampled during the 1st and 3rd quarters, typically January and July

Mon = Groundwater Monitoring Only

Rem = Remediation Well Only


--- = None or not applicable

AS-1 = Air Sparging Well

APPENDIX B

Groundwater Monitoring Field Data Sheets

Well Gauging Data Sheet

| Project Task #: 1135.001.249 | | | Project Name: Douglas Parking | | | | |
|-----------------------------------|------------------|------|---|-------------------------------------|---------------------|------------------|------------------|
| Address: 1721 Webster St, Oakland | | | | | | Date: 01.20.17 | |
| Name: Erik Lervaag | | | Signature:  | | | | |
| Well ID | Well Size (in.) | Time | Depth to Immiscible Liquid (ft) | Thickness of Immiscible Liquid (ft) | Depth to Water (ft) | Total Depth (ft) | Measuring Point |
| MW-1 | 2 | 1059 | — | — | 21.83 | | notch in casing. |
| MW-2 | 105 2 | 1105 | — | — | 19.49 | | " |
| MW-3 | 103 2 | 1103 | — | — | 21.15 | | NTOC |
| MW-5 | 107 2 | 1107 | — | — | 14.98 | | notch in casing |
| MW-6 | 2 | 1111 | — | — | 19.56 | | notch in casing |
| | | | | | | | |
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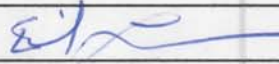
Comments:

MONITORING FIELD DATA SHEET

Well ID: MW-1

| Project.Task #: 1135.001.249 | | Project Name: Douglas Parking | | | | | | | |
|------------------------------------|-------------------------|---|--------------|-----------|-------------|------------|------------|-----------|----------------|
| Address: 1721 Webster St, Oakland | | | | | | | | | |
| 01.20.17 | | Weather <u>ptly cloudy, showers 50's</u> | | | | | | | |
| Well Diameter: <u>2</u> | | Volume/ft. <table border="1"> <tr> <td>1" = 0.04</td> <td>3" = 0.37</td> <td>6" = 1.47</td> </tr> <tr> <td>2" = 0.16</td> <td>4" = 0.65</td> <td>radius** 0.163</td> </tr> </table> | | 1" = 0.04 | 3" = 0.37 | 6" = 1.47 | 2" = 0.16 | 4" = 0.65 | radius** 0.163 |
| 1" = 0.04 | 3" = 0.37 | 6" = 1.47 | | | | | | | |
| 2" = 0.16 | 4" = 0.65 | radius** 0.163 | | | | | | | |
| Total Depth (TD): <u>30</u> | | Depth to Product: <u>—</u> | | | | | | | |
| Depth to Water (DTW): <u>21.83</u> | | Product Thickness: <u>—</u> | | | | | | | |
| Water Column Height: <u>8.17</u> | | 1 Casing Volume: <u>1.3</u> gallons | | | | | | | |
| Reference Point: NTOC | | 3 Casing Volumes: <u>3.9</u> gallons | | | | | | | |
| Purging Device: New Bailer | | | | | | | | | |
| Sampling Device: New Bailer | | | | | | | | | |
| Time | Temp (°C) | pH | Cond (µs) | NTU | DO(mg/L) | ORP (mV) | Vol(gal) | DTW | |
| <u>1427</u> | | <u>pre-bailing DO =</u> | | | <u>0.87</u> | | | | |
| <u>1433</u> | <u>19.8</u> | <u>7.51</u> | <u>593.3</u> | | | <u>-69</u> | <u>0</u> | | |
| <u>1433</u> | <u>19.3</u> | <u>6.84</u> | <u>551.9</u> | | | <u>-78</u> | <u>1.3</u> | | |
| <u>1439</u> | <u>19.2</u> | <u>6.66</u> | <u>547.6</u> | | | <u>-89</u> | <u>2.5</u> | | |
| <u>1444</u> | <u>19.2</u> | <u>6.61</u> | <u>545.1</u> | | | <u>-87</u> | <u>3.9</u> | | |
| <u>1445</u> | <u>Sample collected</u> | | | | | | | | |
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Comments: DO @ 25' bgs

| | |
|---|---|
| Sample ID: <u>MW-1</u> | Sample Time: <u>1445</u> |
| Laboratory: Sunstar | Sample Date: <u>01.20.17</u> |
| Containers/Preservative: 3 VOAs w/HCl | |
| Analyzed for: TPHg/BTEX/MTBE by 8015/8020 | |
| Sampler Name: E. Lervaag | Signature:  |



MONITORING FIELD DATA SHEET

Well ID: MW-2

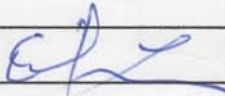
| | | | | | | | |
|------------------------------------|---|-----------------------------|-----------|-----------|-----------|-----------|-----------------------------|
| Project.Task #: 1135.001.249 | Project Name: Douglas Parking | | | | | | |
| Address: 1721 Webster St, Oakland | | | | | | | |
| 01.20.17 | Weather <u>ptly cldy 50/60</u> | | | | | | |
| Well Diameter: <u>2</u> | Volume/ft. <table border="1"> <tr> <td>1" = 0.04</td> <td>3" = 0.37</td> <td>6" = 1.47</td> </tr> <tr> <td>2" = 0.16</td> <td>4" = 0.65</td> <td>radius² * 0.163</td> </tr> </table> | 1" = 0.04 | 3" = 0.37 | 6" = 1.47 | 2" = 0.16 | 4" = 0.65 | radius ² * 0.163 |
| 1" = 0.04 | 3" = 0.37 | 6" = 1.47 | | | | | |
| 2" = 0.16 | 4" = 0.65 | radius ² * 0.163 | | | | | |
| Total Depth (TD): <u>29.5</u> | Depth to Product: | | | | | | |
| Depth to Water (DTW): <u>19.49</u> | Product Thickness: | | | | | | |
| Water Column Height: <u>10.01</u> | 1 Casing Volume: <u>1.6</u> gallons | | | | | | |
| Reference Point: NTOC | 3 Casing Volumes: <u>4.8</u> gallons | | | | | | |

Purging Device: New Bailer

Sampling Device: New Bailer

| Time | Temp (°C) | pH | Cond (µs) | NTU | DO(mg/L) | ORP (mV) | Vol(gal) | DTW |
|------|------------------|----------------|-----------|-----|----------|----------|----------------|-----|
| | | Pre-Purge DO = | | | 0.73 | | | |
| 1226 | 20.1 | 6.99 | 645.7 | | | -87 | 1.6 | |
| 1231 | 19.8 | 6.68 | 693.0 | | | -110 | 1.6 | |
| 1237 | 19.7 | 6.72 | 691.4 | | | -115 | 3.2 | |
| 1244 | 19.8 | 6.63 | 688.7 | | | -107 | 4.8 | |
| 1245 | Sample Collected | | | | | | | |
| | | | | | | | | |
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Comments:

| | |
|--|---|
| Sample ID: <u>MW-2</u> | Sample Time: <u>1245</u> |
| Laboratory: Sunstar | Sample Date: <u>01.20.17</u> |
| Containers/Preservative: 3 VOAs w/HCl | |
| Analyzed for: TPHg/BTEX/MTBE by 8015/8020 | |
| Sampler Name: E. Lervaag | Signature:  |

MONITORING FIELD DATA SHEET

Well ID: MW-3


| | | | | | | | |
|------------------------------------|--|---------------|-----------|-----------|-----------|-----------|---------------|
| Project.Task #: 1135.001.249 | Project Name: Douglas Parking | | | | | | |
| Address: 1721 Webster St, Oakland | | | | | | | |
| 01.20.17 | Weather <u>ptly cloudy 50's</u> | | | | | | |
| Well Diameter: <u>2</u> | Volume/ft. <table border="1"> <tr> <td>1" = 0.04</td> <td>3" = 0.37</td> <td>6" = 1.47</td> </tr> <tr> <td>2" = 0.16</td> <td>4" = 0.65</td> <td>radius* 0.163</td> </tr> </table> | 1" = 0.04 | 3" = 0.37 | 6" = 1.47 | 2" = 0.16 | 4" = 0.65 | radius* 0.163 |
| 1" = 0.04 | 3" = 0.37 | 6" = 1.47 | | | | | |
| 2" = 0.16 | 4" = 0.65 | radius* 0.163 | | | | | |
| Total Depth (TD): <u>30</u> | Depth to Product: | | | | | | |
| Depth to Water (DTW): <u>21.15</u> | Product Thickness: | | | | | | |
| Water Column Height: <u>8.85</u> | 1 Casing Volume: <u>1.4</u> gallons | | | | | | |
| Reference Point: NTOC | 3 Casing Volumes: <u>4.2</u> gallons | | | | | | |

Purging Device: New Bailer

Sampling Device: New Bailer

| Time | Temp © | pH | Cond (µs) | NTU | DO(mg/L) | ORP (mV) | Vol(gal) | DTW |
|-------------|-------------------------|------------------|--------------|------------------|----------|------------|------------|-----|
| | | <u>Pre-Purge</u> | | <u>DO = 0.69</u> | | | | |
| <u>1344</u> | <u>20.5</u> | <u>6.84</u> | <u>431.4</u> | | | <u>-88</u> | <u>Φ</u> | |
| <u>1348</u> | <u>20.3</u> | <u>6.73</u> | <u>406.7</u> | | | <u>-79</u> | <u>1.4</u> | |
| <u>1352</u> | <u>20.2</u> | <u>6.69</u> | <u>411.3</u> | | | <u>-62</u> | <u>3.0</u> | |
| <u>1357</u> | <u>20.2</u> | <u>6.67</u> | <u>413.1</u> | | | <u>-55</u> | <u>4.2</u> | |
| <u>1358</u> | <u>Sample Collected</u> | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

Comments:

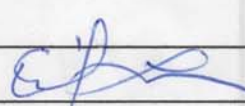
| | |
|---|---|
| Sample ID: <u>MW-3</u> | Sample Time: <u>1358</u> |
| Laboratory: Sunstar | Sample Date: <u>01.20.17</u> |
| Containers/Preservative: 3 VOAs w/HCl | |
| Analyzed for: TPHg/BTEX/MTBE by 8015/8020 | |
| Sampler Name: E. Lervaag | Signature:  |

MONITORING FIELD DATA SHEET

Well ID: MW-5

| Project.Task #: 1135.001.249 | | Project Name: Douglas Parking | | | | | | |
|-----------------------------------|-------------------------------|-------------------------------|--|-----|----------|----------|----------|-----|
| Address: 1721 Webster St, Oakland | | | | | | | | |
| 01.20.17 | | Weather Ptlly Cldy 50's | | | | | | |
| Well Diameter: 2 | Volume/ft. | 1" = 0.04 2" = 0.16 | 3" = 0.37 4" = 0.65 6" = 1.47 radius ² * 0.163 | | | | | |
| Total Depth (TD): 25 | Depth to Product: | | | | | | | |
| Depth to Water (DTW): 14.98 | Product Thickness: | | | | | | | |
| Water Column Height: 10.02 | 1 Casing Volume: 1.6 gallons | | | | | | | |
| Reference Point: NTOC | 3 Casing Volumes: 4.8 gallons | | | | | | | |
| Purging Device: New Bailer | | | | | | | | |
| Sampling Device: New Bailer | | | | | | | | |
| Time | Temp (°C) | pH | Cond (µs) | NTU | DO(mg/L) | ORP (mV) | Vol(gal) | DTW |
| | | Pre-Purge DO = 0.73 | | | | | | |
| 1303 1228 | 20.6 | 7.09 | 603.9 | | | 35 | 0 | |
| 1309 1233 | 20.3 | 6.81 | 591.3 | | | 52 | 1.6 | |
| 1314 1239 | 20.2 | 6.77 | 589.4 | | | 69 | 3.2 | |
| 1320 1240 | 20.2 | 6.76 | 586.5 | | | 73 | 4.8 | |
| 1321 1241 | Sample collected | | | | | | | |

Comments:


| | |
|---|---|
| Sample ID: MW-5 | Sample Time: 1321 |
| Laboratory: Sunstar | Sample Date: 01.20.17 |
| Containers/Preservative: 3 VOAs w/HCl | |
| Analyzed for: TPHg/BTEX/MTBE by 8015/8020 | |
| Sampler Name: E. Lervaag | Signature:  |

MONITORING FIELD DATA SHEET

Well ID: MW-6

| Project.Task #: 1135.001.249 | | Project Name: Douglas Parking | | | | | | |
|-----------------------------------|------------------|--|-----------|-----|----------|----------|----------|-----|
| Address: 1721 Webster St, Oakland | | | | | | | | |
| 01.20.17 | | Weather: Ptlly cloudy 50's | | | | | | |
| Well Diameter: 2 | | Volume/ft. 1" = 0.04 3" = 0.37 6" = 1.47 2" = 0.16 4" = 0.65 radius** 0.163 | | | | | | |
| Total Depth (TD): 30 | | Depth to Product: | | | | | | |
| Depth to Water (DTW): 19.56 | | Product Thickness: | | | | | | |
| Water Column Height: 10.44 | | 1 Casing Volume: 1.7 gallons | | | | | | |
| Reference Point: NTOC | | 3 Casing Volumes: 5.0 gallons | | | | | | |
| Purging Device: New Bailer | | | | | | | | |
| Sampling Device: New Bailer | | | | | | | | |
| Time | Temp (°C) | pH | Cond (µs) | NTU | DO(mg/L) | ORP (mV) | Vol(gal) | DTW |
| | | Pre-Purge DO = | | | 0.87 | | | |
| 1145 | 20.1 | 6.89 | 671.4 | | | -103 | 0 | |
| 1149 | 19.8 | 6.66 | 668.5 | | | -92 | 1.7 | |
| 1153 | 19.7 | 6.65 | 663.9 | | | -81 | 3.5 | |
| 1157 | 19.7 | 6.65 | 665.1 | | | -72 | 5.0 | |
| 1158 | Sample Collected | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

Comments:

| | |
|---|---|
| Sample ID: MW-6 | Sample Time: 1158 |
| Laboratory: Sunstar | Sample Date: 01-20-17 |
| Containers/Preservative: 3 VOAs w/HCl | |
| Analyzed for: TPHg/BTEX/MTBE by 8015/8020 | |
| Sampler Name: E. Lervaag | Signature:  |

APPENDIX C

Laboratory Analytical Reports



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1701920

Report Created for: Pangea Environmental Svcs., Inc.

1710 Franklin Street, Ste. 200
Oakland, CA 94612

Project Contact: Elizabeth Avery

Project P.O.:

Project Name: Douglas Parking

Project Received: 01/23/2017

Analytical Report reviewed & approved for release on 01/26/2017 by:

Angela Rydelius,
Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.





Glossary of Terms & Qualifier Definitions

Client: Pangea Environmental Svcs., Inc.
Project: Douglas Parking
WorkOrder: 1701920

Glossary Abbreviation

| | |
|--------------|--|
| %D | Serial Dilution Percent Difference |
| 95% Interval | 95% Confident Interval |
| DF | Dilution Factor |
| DI WET | (DISTLC) Waste Extraction Test using DI water |
| DISS | Dissolved (direct analysis of 0.45 µm filtered and acidified water sample) |
| DLT | Dilution Test (Serial Dilution) |
| DUP | Duplicate |
| EDL | Estimated Detection Limit |
| ITEF | International Toxicity Equivalence Factor |
| LCS | Laboratory Control Sample |
| MB | Method Blank |
| MB % Rec | % Recovery of Surrogate in Method Blank, if applicable |
| MDL | Method Detection Limit |
| ML | Minimum Level of Quantitation |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| N/A | Not Applicable |
| ND | Not detected at or above the indicated MDL or RL |
| NR | Data Not Reported due to matrix interference or insufficient sample amount. |
| PDS | Post Digestion Spike |
| PDSD | Post Digestion Spike Duplicate |
| PF | Prep Factor |
| RD | Relative Difference |
| RL | Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.) |
| RPD | Relative Percent Deviation |
| RRT | Relative Retention Time |
| SPK Val | Spike Value |
| SPKRef Val | Spike Reference Value |
| SPLP | Synthetic Precipitation Leachate Procedure |
| ST | Sorbent Tube |
| TCLP | Toxicity Characteristic Leachate Procedure |
| TEQ | Toxicity Equivalents |
| WET (STLC) | Waste Extraction Test (Soluble Threshold Limit Concentration) |



Glossary of Terms & Qualifier Definitions

Client: Pangea Environmental Svcs., Inc.
Project: Douglas Parking
WorkOrder: 1701920

Analytical Qualifiers

S surrogate spike recovery outside accepted recovery limits
b1 aqueous sample that contains greater than ~1 vol. % sediment
c4 surrogate recovery outside of the control limits due to coelution with another peak(s) / cluttered chromatogram.
d1 weakly modified or unmodified gasoline is significant



Analytical Report

Client: Pangea Environmental Svcs., Inc.
Date Received: 1/23/17 8:00
Date Prepared: 1/23/17-1/25/17
Project: Douglas Parking

WorkOrder: 1701920
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: µg/L

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|-----------|--------------|--------|------------------|------------|----------|
| MW-1 | 1701920-001A | Water | 01/20/2017 13:15 | GC7 | 133031 |

| Analytes | Result | RL | DF | Date Analyzed |
|-----------------|--------|------|----|------------------|
| TPH(g) (C6-C12) | ND | 50 | 1 | 01/23/2017 20:20 |
| MTBE | ND | 5.0 | 1 | 01/23/2017 20:20 |
| Benzene | ND | 0.50 | 1 | 01/23/2017 20:20 |
| Toluene | ND | 0.50 | 1 | 01/23/2017 20:20 |
| Ethylbenzene | ND | 0.50 | 1 | 01/23/2017 20:20 |
| Xylenes | ND | 1.5 | 1 | 01/23/2017 20:20 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|------------|---------|--------|------------------|
| aaa-TFT | 104 | 89-115 | 01/23/2017 20:20 |

Analyst(s): IA

Analytical Comments: b1

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|-----------|--------------|--------|------------------|------------|----------|
| MW-2 | 1701920-002A | Water | 01/20/2017 12:05 | GC7 | 133031 |

| Analytes | Result | RL | DF | Date Analyzed |
|-----------------|--------|------|----|------------------|
| TPH(g) (C6-C12) | 3000 | 50 | 1 | 01/23/2017 22:19 |
| MTBE | ND | 5.0 | 1 | 01/23/2017 22:19 |
| Benzene | 2.7 | 0.50 | 1 | 01/23/2017 22:19 |
| Toluene | 3.7 | 0.50 | 1 | 01/23/2017 22:19 |
| Ethylbenzene | 19 | 0.50 | 1 | 01/23/2017 22:19 |
| Xylenes | 29 | 1.5 | 1 | 01/23/2017 22:19 |

| Surrogates | REC (%) | Qualifiers | Limits | Date Analyzed |
|------------|---------|------------|--------|------------------|
| aaa-TFT | 117 | S | 89-115 | 01/23/2017 22:19 |

Analyst(s): IA

Analytical Comments: d1,c4

(Cont.)

NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



Analytical Report

Client: Pangea Environmental Svcs., Inc.
Date Received: 1/23/17 8:00
Date Prepared: 1/23/17-1/25/17
Project: Douglas Parking

WorkOrder: 1701920
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: µg/L

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|-----------|--------------|--------|------------------|------------|----------|
| MW-3 | 1701920-003A | Water | 01/20/2017 12:30 | GC7 | 133031 |

| Analytes | Result | RL | DF | Date Analyzed |
|-----------------|--------|-----|----|------------------|
| TPH(g) (C6-C12) | 4200 | 250 | 5 | 01/25/2017 10:23 |
| MTBE | ND | 25 | 5 | 01/25/2017 10:23 |
| Benzene | ND | 2.5 | 5 | 01/25/2017 10:23 |
| Toluene | 5.0 | 2.5 | 5 | 01/25/2017 10:23 |
| Ethylbenzene | ND | 2.5 | 5 | 01/25/2017 10:23 |
| Xylenes | ND | 7.5 | 5 | 01/25/2017 10:23 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|------------|---------|--------|------------------|
| aaa-TFT | 108 | 89-115 | 01/25/2017 10:23 |

Analyst(s): IA

Analytical Comments: d1

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|-----------|--------------|--------|------------------|------------|----------|
| MW-5 | 1701920-004A | Water | 01/20/2017 11:40 | GC7 | 133031 |

| Analytes | Result | RL | DF | Date Analyzed |
|-----------------|--------|------|----|------------------|
| TPH(g) (C6-C12) | ND | 50 | 1 | 01/23/2017 19:51 |
| MTBE | ND | 5.0 | 1 | 01/23/2017 19:51 |
| Benzene | ND | 0.50 | 1 | 01/23/2017 19:51 |
| Toluene | ND | 0.50 | 1 | 01/23/2017 19:51 |
| Ethylbenzene | ND | 0.50 | 1 | 01/23/2017 19:51 |
| Xylenes | ND | 1.5 | 1 | 01/23/2017 19:51 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|------------|---------|--------|------------------|
| aaa-TFT | 103 | 89-115 | 01/23/2017 19:51 |

Analyst(s): IA



Analytical Report

Client: Pangea Environmental Svcs., Inc.
Date Received: 1/23/17 8:00
Date Prepared: 1/23/17-1/25/17
Project: Douglas Parking

WorkOrder: 1701920
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: µg/L

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|-----------|--------------|--------|------------------|------------|----------|
| MW-6 | 1701920-005A | Water | 01/20/2017 11:45 | GC7 | 133031 |

| Analytes | Result | RL | DF | Date Analyzed |
|-----------------|--------|------|----|------------------|
| TPH(g) (C6-C12) | 13,000 | 1000 | 20 | 01/25/2017 09:52 |
| MTBE | 260 | 100 | 20 | 01/25/2017 09:52 |
| Benzene | 120 | 10 | 20 | 01/25/2017 09:52 |
| Toluene | 71 | 10 | 20 | 01/25/2017 09:52 |
| Ethylbenzene | 760 | 10 | 20 | 01/25/2017 09:52 |
| Xylenes | 760 | 30 | 20 | 01/25/2017 09:52 |

| Surrogates | REC (%) | Qualifiers | Limits | Date Analyzed |
|------------|---------|------------|--------|------------------|
| aaa-TFT | 116 | S | 89-115 | 01/25/2017 09:52 |

Analyst(s): IA

Analytical Comments: d1,c4



Quality Control Report

Client: Pangea Environmental Svcs., Inc.
Date Prepared: 1/23/17
Date Analyzed: 1/23/17
Instrument: GC7
Matrix: Water
Project: Douglas Parking

WorkOrder: 1701920
BatchID: 133031
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: µg/L
Sample ID: MB/LCS-133031
 1701921-020AMS/MSD

QC Summary Report for SW8021B/8015Bm

| Analyte | MB Result | LCS Result | RL | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|---------------------------|-----------|------------|------|---------|------------|----------|------------|
| TPH(btex) | ND | 56.5 | 40 | 60 | - | 94 | 85-112 |
| MTBE | ND | 10.5 | 5.0 | 10 | - | 105 | 74-127 |
| Benzene | ND | 10.8 | 0.50 | 10 | - | 109 | 81-124 |
| Toluene | ND | 11.5 | 0.50 | 10 | - | 115 | 79-131 |
| Ethylbenzene | ND | 11.1 | 0.50 | 10 | - | 111 | 86-127 |
| Xylenes | ND | 33.6 | 1.5 | 30 | - | 112 | 87-133 |
| Surrogate Recovery | | | | | | | |
| aaa-TFT | 10.4 | 10.4 | | 10 | 104 | 104 | 87-117 |

| Analyte | MS Result | MSD Result | SPK Val | SPKRef Val | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD Limit |
|---------------------------|-----------|------------|---------|------------|---------|----------|---------------|------|-----------|
| TPH(btex) | 61.0 | 59.0 | 60 | ND | 102 | 98 | 85-113 | 3.40 | 20 |
| MTBE | 10.6 | 10.9 | 10 | ND | 101 | 104 | 73-120 | 2.93 | 20 |
| Benzene | 10.7 | 11.1 | 10 | ND | 106 | 110 | 84-121 | 3.78 | 20 |
| Toluene | 11.1 | 11.6 | 10 | ND | 111 | 116 | 86-125 | 4.34 | 20 |
| Ethylbenzene | 10.8 | 11.3 | 10 | ND | 108 | 112 | 93-124 | 3.91 | 20 |
| Xylenes | 33.1 | 33.9 | 30 | ND | 110 | 113 | 93-130 | 2.42 | 20 |
| Surrogate Recovery | | | | | | | | | |
| aaa-TFT | 10.3 | 10.3 | 10 | | 103 | 103 | 89-115 | 0 | 20 |



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1701920

ClientCode: PEO

WaterTrax
 WriteOn
 EDF
 Excel
 EQUIS
 Email
 HardCopy
 ThirdParty
 J-flag

Report to:

Elizabeth Avery
Pangea Environmental Svcs., Inc.
1710 Franklin Street, Ste. 200
Oakland, CA 94612
(510) 836-3700 FAX: (510) 836-3709

Email: eavery@pangeaenv.com
cc/3rd Party:
PO:
ProjectNo: Douglas Parking

Bill to:

Bob Clark-Riddell
Pangea Environmental Svcs., Inc.
1710 Franklin Street, Ste. 200
Oakland, CA 94612

Requested TAT: 5 days;

Date Received: 01/23/2017

Date Logged: 01/23/2017

| Lab ID | Client ID | Matrix | Collection Date | Hold | Requested Tests (See legend below) | | | | | | | | | | | | |
|-------------|-----------|--------|-----------------|--------------------------|------------------------------------|---|---|---|---|---|---|---|---|----|----|----|--|
| | | | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | |
| 1701920-001 | MW-1 | Water | 1/20/2017 13:15 | <input type="checkbox"/> | A | A | | | | | | | | | | | |
| 1701920-002 | MW-2 | Water | 1/20/2017 12:05 | <input type="checkbox"/> | A | | | | | | | | | | | | |
| 1701920-003 | MW-3 | Water | 1/20/2017 12:30 | <input type="checkbox"/> | A | | | | | | | | | | | | |
| 1701920-004 | MW-5 | Water | 1/20/2017 11:40 | <input type="checkbox"/> | A | | | | | | | | | | | | |
| 1701920-005 | MW-6 | Water | 1/20/2017 11:45 | <input type="checkbox"/> | A | | | | | | | | | | | | |

Test Legend:

| | | | | | | | |
|---|----------|----|--------------|----|--|----|--|
| 1 | G-MBTX_W | 2 | PREDF REPORT | 3 | | 4 | |
| 5 | | 6 | | 7 | | 8 | |
| 9 | | 10 | | 11 | | 12 | |

Prepared by: Maria Venegas

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.



WORK ORDER SUMMARY

Client Name: PANGEA ENVIRONMENTAL SVCS., INC.

Project: Douglas Parking

Work Order: 1701920

Client Contact: Elizabeth Avery

QC Level: LEVEL 2

Contact's Email: eavery@pangeaenv.com

Comments:


Date Logged: 1/23/2017

WaterTrax WriteOn EDF Excel Fax Email HardCopy ThirdParty J-flag

| Lab ID | Client ID | Matrix | Test Name | Containers /Composites | Bottle & Preservative | De-chlorinated | Collection Date & Time | TAT | Sediment Content | Hold | SubOut |
|--------------|-----------|--------|--------------------------|------------------------|-----------------------|--------------------------|------------------------|--------|------------------|--------------------------|--------|
| 1701920-001A | MW-1 | Water | SW8021B/8015Bm (G/MBTEX) | 3 | VOA w/ HCl | <input type="checkbox"/> | 1/20/2017 13:15 | 5 days | 5%+ | <input type="checkbox"/> | |
| 1701920-002A | MW-2 | Water | SW8021B/8015Bm (G/MBTEX) | 3 | VOA w/ HCl | <input type="checkbox"/> | 1/20/2017 12:05 | 5 days | Present | <input type="checkbox"/> | |
| 1701920-003A | MW-3 | Water | SW8021B/8015Bm (G/MBTEX) | 3 | VOA w/ HCl | <input type="checkbox"/> | 1/20/2017 12:30 | 5 days | Present | <input type="checkbox"/> | |
| 1701920-004A | MW-5 | Water | SW8021B/8015Bm (G/MBTEX) | 3 | VOA w/ HCl | <input type="checkbox"/> | 1/20/2017 11:40 | 5 days | Present | <input type="checkbox"/> | |
| 1701920-005A | MW-6 | Water | SW8021B/8015Bm (G/MBTEX) | 3 | VOA w/ HCl | <input type="checkbox"/> | 1/20/2017 11:45 | 5 days | Present | <input type="checkbox"/> | |

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

| | | | | | | | | |
|---|---|--------------------------------|---------------------------------|-----|---|------------|---|---------|
|  | McCAMPBELL ANALYTICAL, INC. | CHAIN OF CUSTODY RECORD | | | | | | |
| | 1534 Willow Pass Rd. Pittsburg, Ca. 94565-1701 | | Turn Around Time: 1 Day Rush | | 2 Day Rush | 3 Day Rush | STD <input checked="" type="checkbox"/> | Quote # |
| | Telephone: (877) 252-9262 / Fax: (925) 252-9269 | | J-Flag / MDL | ESL | Cleanup Approved | | Bottle Order # | |
| | www.mccampbell.com main@mccampbell.com | | Delivery Format: GeoTracker EDF | | <input checked="" type="checkbox"/> PDF | EDD | Write On (DW) | EQuIS |

Report To: Elizabeth Avery Bill To: Pangea
 Company: Pangea Env. Sis.
 Email: eavery@pangeaenv.com
 Alt Email: _____ Tele: 510-836-3700
 Project Name/#: Douglas Parking
 Project Location: 1721 webster St, Oakland #0
 Sampler Signature: [Signature]

Analysis Requested

| SAMPLE ID Location / Field Point | Sampling | | #Containers | Matrix | Preservative | BTEX & TPH as Gas (8021/ 8015) MTBE | TPH as Diesel (8015) + Motor Oil Without Silica Gel | TPH as Diesel (8015) + Motor Oil With Silica Gel | Total Oil & Grease (1664 / 9071) Without Silica Gel | Total Petroleum Hydrocarbons - Oil & Grease (1664 / 9071) With Silica Gel | Total Petroleum Hydrocarbons (418.1) With Silica Gel | EPA 505/ 608 / 8081 (CI Pesticides) | EPA 608 / 8082 PCB's ; Aroclors only | EPA 524.2 / 624 / 8260 (VOCs) | EPA 525.2 / 625 / 8270 (SVOCs) | EPA 8270 SIM / 8310 (PAHs / PNAs) | CAM 17 Metals (200.8 / 6020)* | Metals (200.8 / 6020) | Baylands Requirements | Lab to filter sample for dissolved metals analysis | | | | | | | | | | | |
|-------------------------------------|----------|------|-------------|--------|--------------|-------------------------------------|---|--|---|---|--|-------------------------------------|--------------------------------------|-------------------------------|--------------------------------|-----------------------------------|-------------------------------|-----------------------|-----------------------|--|--|--|--|--|--|--|--|--|--|--|--|
| | Date | Time | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MW-1 | 01.20.17 | 1315 | 3 | GW | HCl | X | | | | | | | | | | | | | | | | | | | | | | | | | |
| MW-2 | | 1205 | 3 | | | X | | | | | | | | | | | | | | | | | | | | | | | | | |
| MW-3 | | 1230 | 3 | | | X | | | | | | | | | | | | | | | | | | | | | | | | | |
| MW-5 | | 1400 | 3 | | | X | | | | | | | | | | | | | | | | | | | | | | | | | |
| MW-6 | 01.20.17 | 1145 | 3 | GW | HCl | X | | | | | | | | | | | | | | | | | | | | | | | | | |

MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate \$250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

| | | | | | | | |
|---|--|----------|------|----------------------------|--|-------------------------|-----|
| * If metals are requested for water samples and the water type (Matrix) is not specified on the chain of custody, MAI will default to metals by E200.8. | | | | | | Comments / Instructions | |
| Please provide an adequate volume of sample. If the volume is not sufficient for a MS/MSD a LCS/LCSD will be prepared in its place and noted in the report. | | | | | | | |
| Relinquished By / Company Name | | Date | Time | Received By / Company Name | | | |
| <u>[Signature]</u> | | 01.23.17 | 0800 | <u>Yen Cao C MAI</u> | | 1/23/17 | 8am |

Matrix Code: DW=Drinking Water, GW=Ground Water, WW=Waste Water, SW=Seawater, S=Soil, SL=Sludge, A=Air, WP=Wipe, O=Other
 Preservative Code: 1=4°C 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=ZnOAc/NaOH 7=None Temp 10.8 °C Initials YC



Sample Receipt Checklist

Client Name: **Pangea Environmental Svcs., Inc.**
 Project Name: **Douglas Parking**
 WorkOrder No: **1701920** Matrix: Water
 Carrier: Client Drop-In

Date and Time Received: **1/23/2017 08:00**
 Date Logged: **1/23/2017**
 Received by: **Yen Cao**
 Logged by: **Maria Venegas**

Chain of Custody (COC) Information

Chain of custody present? Yes No
 Chain of custody signed when relinquished and received? Yes No
 Chain of custody agrees with sample labels? Yes No
 Sample IDs noted by Client on COC? Yes No
 Date and Time of collection noted by Client on COC? Yes No
 Sampler's name noted on COC? Yes No

Sample Receipt Information

Custody seals intact on shipping container/cooler? Yes No NA
 Shipping container/cooler in good condition? Yes No
 Samples in proper containers/bottles? Yes No
 Sample containers intact? Yes No
 Sufficient sample volume for indicated test? Yes No

Sample Preservation and Hold Time (HT) Information

All samples received within holding time? Yes No NA
 Sample/Temp Blank temperature Temp: 10.8°C NA
 Water - VOA vials have zero headspace / no bubbles? Yes No NA
 Sample labels checked for correct preservation? Yes No
 pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)? Yes No NA
 Samples Received on Ice? Yes No

UCMR3 Samples:

Total Chlorine tested and acceptable upon receipt for EPA 522? Yes No NA
 Free Chlorine tested and acceptable upon receipt for EPA 218.7, 300.1, 537, 539? Yes No NA

Comments: