

**RECEIVED**

By Alameda County Environmental Health 2:47 pm, Jul 07, 2016

June 27, 2016

Ms. Karel Detterman
Alameda County Environmental Health Services
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Re: Alaska Gas Service Station, 6211 San Pablo Avenue, Oakland, California (Fuel
Leak Case No. RO0000127)

Dear Ms. Detterman:

Stratus Environmental, Inc. (Stratus) has prepared a report entitled *Site Conceptual Model Addendum* on my behalf. The report was prepared in regards to Alameda County Fuel Leak Case No. RO0000127, Alaska Gas Service Station, 6211 San Pablo Avenue, Oakland, California.

I have reviewed a copy of this report, sent to me by representatives of Stratus, and "I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge."

Sincerely,

Pritpal Sappal



3330 Cameron Park Drive, Ste 550
Cameron Park, California 95682
(530) 676-6004 ~ Fax: (530) 676-6005

Prepared on November 6, 2015
Project No. 2192-6211-01
Issued on June 27, 2016

Ms. Karel Detterman
Alameda County Environmental Health Department
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

Re: **Site Conceptual Model Addendum**
Alaska Gas Service Station
6211 San Pablo Avenue, Oakland, California
LOP Case # RO0000127

Dear Ms. Detterman:

Stratus Environmental, Inc. (Stratus), on behalf of Mr. Pritpaul Sappal, has prepared this report for the Alaska Gas Service Station located at 6211 San Pablo Avenue, Oakland, California (the site, see Figure 1). Alameda County Environmental Health Department (ACEHD) currently regulates an environmental case on the subject property relating to a historical release of motor vehicle fuel to the subsurface. In February 2015, Stratus submitted a *Site Conceptual Model* (SCM) within a report titled *Additional Information to Support Environmental Case Closure Review*. After reviewing this report, ACEHD issued a letter, dated July 24, 2015, which requested that additional information be prepared and submitted as an SCM Addendum.

The following subsections of this report present a description of information requested by ACEHD (in bolded text), followed by responses prepared by Stratus, and / or references to figures or tables that address the item of concern.

Thank you for preparing a SCM in a tabular form by synthesizing existing site data into the attached WORD document template, including the updated well survey. The following requested items were not included in the SCM: (a) Summary of historical soil and groundwater analytical results : Please prepare tables summarizing all historical soil and groundwater analytical results including sample depths and detection limits if sample result is not detected/less than the detection limits, and (b) Figure showing remaining site soil concentrations: Please provide a figure that documents the remaining soil concentrations onsite after completion of the remedial activities by indicating in grey or faded font the sample locations and results removed by remedial activities and in bold font the sample locations and

results remaining after remedial activities. This request is to quickly illustrate areas of residual contamination.

Tabulated historical soil analytical data is provided in Appendix A and tabulated historical groundwater analytical data is presented in Appendix B.

During / following an excavation at the site in 2011, AEI Consultants collected 59 soil samples from soil within the limits of the excavation, and from the base and sidewalls of the excavation cavity. AEI also prepared a figure illustrating sampling locations and summarizing these results (see Appendix C). This figure was included in an October 6, 2011 report prepared by AEI, and includes GRO, benzene, and MTBE concentrations from samples collected from various depths. The figure does not include soil sample data collected from historical soil borings.

Given the extensive information available, preparation of one single figure summarizing all information regarding remaining residual impact to soil does not appear practical. Instead, Stratus has prepared a group of figures summarizing remaining GRO, benzene, and MTBE impact to soil using available data collected during historical site assessment work, and also the 2011 excavation. Figures 3 through 5 summarize residual GRO, benzene, and MTBE concentrations, respectively, in soil between 2.5 and 7.5 feet below ground surface (bgs). Figures 6 through 8 summarize residual GRO, benzene, and MTBE concentrations, respectively, in soil between 8 and 15 feet bgs. As requested by ACEHD, soil concentrations of samples from areas where contaminants have been removed by excavation are shown in grey.

Low Threat Closure Policy's Technical Justification for Groundwater Media-Specific Criteria : Our review of the case files indicates that insufficient data and analysis has been presented to support the requisite characteristics of the plume length. Please estimate the GRO, benzene, and MTBE plume lengths in conjunction with the updated 2,000 foot well survey radius using ACPWA and DWR data, and submit the report as an Appendix of the SCM Addendum. Please revise the SCM to include the following lines of evidence (distal end of plume) : (a) As shown in Attachment 2, plot on three separate aerial photography based figures the site's prevalent groundwater flow direction, the average, 90th percentile, and maximum plume lengths for GRO, benzene, and MTBE using Table 1: *Plume Characteristics in the LTCP's Technical Justification for Groundwater Media-Specific Criteria* (b) Additionally plot the results of the ACPWA and DWR 2,000 foot well survey radius on the three figures, and due to the lack of a bioattenuation zone because of shallow groundwater levels in the vicinity, indicate the locations of any sensitive receptors including, but not limited to, basements, dewatering structures, wetlands, surface water bodies, natural resources, schools, hospitals, day care centers, elder care facilities, etc. downgradient of the site. Please number each sensitive receptors location and summarize the locations on a table similar to the table provided in

Attachment 2. Please utilize the results of the upcoming groundwater monitoring and sampling event (third quarter 2015) to plot the GRO, benzene, and MTBE concentrations to document groundwater quality at the proximal end of the plume.

The following table is presented as Table 1 in *Plume Characteristics* in the LTCP's *Technical Justification for Groundwater Media-Specific Criteria*:

Plume Characteristics reported by Shih et. al. (2004)

Constituent (and plume limit concentration)	Average Plume Length (feet)	90 th Percentile Plume Length (feet)	Maximum Plume Length (feet)
Benzene (5 µg/L)	198	350	554
MTBE (5 µg/L)	317	545	1,046
TPHg (100 µg/L)	248	413	855

Note: Plume lengths shown above are from the LTCP document and are not from site specific data.

Figures 9 through 11 illustrate the potential plume lengths for GRO, benzene, and MTBE based on information presented in the LTCP document (and summarized in the table above). These figures also include the general layout of the neighborhood surrounding the site and the location of the one water supply well identified within a 2,000-foot radius of the site. The locations of medical clinics and schools within the approximately 2,000-foot radius of the site are also included on Figures 9 through 11.

No groundwater sensitive receptors, as described above, have been located immediately downgradient of the site, within the known limits of the contaminant plume. In addition, no groundwater sensitive receptors have been located within the limits of the 'Maximum Plume Length' configuration for GRO, benzene, or MTBE as depicted on Figures 9 through 11, respectively. Figure 12 presents a summary of GRO, benzene, MTBE, and tertiary butyl alcohol (TBA) concentrations detected in groundwater samples collected during the third quarter 2015.

GeoTracker Update: offsite wells MW-7 through MW-10 do not appear on the GeoTracker Map. Please ensure that all EDF data for the on and off-site wells is uploaded and the off-site wells appear as monitoring points on the GeoTracker map for the site.

The requested information is available on GeoTracker for your review.

Table 2, Groundwater Elevation Data Tables: It is evident that free product has migrated off site and periodically appears in off site monitoring well MW-7. Please indicate a column indicating both historic and present free product thicknesses for all wells in both the SCM Addendum and future groundwater monitoring reports.

The requested table has been amended and a copy of this table is provided in Appendix D.

Free product trend in off-site wells: The Free Product Section of the LTCP's *Technical Justification for Groundwater Media-Specific Criteria* describes the importance of determining if free product is immobile, mobile, or migrating. Because of the increase trend of free product in downgradient and off-site MW-7, it appears to ACEH that the free product is mobile or migrating. However, please evaluate if the free product observed in MW-7 is migrating and if the free product can be expected to appear in downgradient wells MW-9 and/or MW-10 in the near future. If insufficient data is currently available to determine mobility and migration, please submit a data gap work plan with the SCM Addendum requested below.

A review of available data illustrates that most of the site's monitoring wells are currently impacted with elevated concentrations of MTBE and tertiary butyl alcohol (TBA), while concentrations of GRO, benzene, toluene, ethylbenzene, and total xylenes (BTEX compounds) are relatively low. However, well MW-7 is impacted with elevated concentrations of GRO and BTEX, which is thus inconsistent with other current site data. Prior to completing an excavation at the site, GRO and BTEX concentrations were elevated onsite, however these remedial efforts have resulted in a significant decline in GRO and BTEX concentrations onsite.

It is our opinion that free product is unlikely to be migrating on top of the water table surface in the vicinity of well MW-7. Instead, we believe that the presence of 'old-degraded' GRO and BTEX in soil and groundwater in the vicinity of well MW-7 is resulting in the product sheen and occasional free product observed at this well during sampling. In our opinion, a 'stagnant' area of GRO/BTEX impact that is situated within the larger MTBE/TBA plume is resulting in the observed product/sheen at the MW-7. Given this transport mechanism, and the absence of GRO and BTEX at wells MW-9 and MW-10, we do not believe that free product is likely to be measured at wells MW-9 and MW-10 in the immediate future. Wells MW-9 and MW-10 are located approximately 210 and 125 feet west and southwest, respectively, of MW-7. It is our belief that the GRO/BTEX plume has stabilized over time, and given these distances, it is unlikely that product will be measured at MW-9 and MW-10 in future well gauging.

LIMITATIONS

This document was prepared in general accordance with accepted standards of care that existed at the time this work was performed. No other warranty, expressed or implied, is made. Conclusions and recommendations are based on field observations and data obtained from this work and previous investigations. It should be recognized that definition and evaluation of geologic conditions is a difficult and somewhat inexact science. Judgments leading to conclusions and recommendations are generally made with an incomplete knowledge of the subsurface conditions present. More extensive studies may be performed to reduce uncertainties. This document is solely for the use and information of our client unless otherwise noted.

If you have any questions regarding this document, or the project in general, please contact Scott Bittinger at (530) 676-2062.

Sincerely,

STRATUS ENVIRONMENTAL, INC.



Scott G. Bittinger, P.G.
Project Manager



Gowri S. Kowtha, P.E.
Principal Engineer

ATTACHMENTS:

- | | |
|-----------|---|
| Figure 1 | Site Location Map |
| Figure 2 | Site Vicinity Map |
| Figure 3 | Residual GRO in Soil, 2.5 to 7.5 Feet BGS |
| Figure 4 | Residual Benzene in Soil, 2.5 to 7.5 Feet BGS |
| Figure 5 | Residual MTBE in Soil, 2.5 to 7.5 Feet BGS |
| Figure 6 | Residual GRO in Soil, 8 to 15 Feet BGS |
| Figure 7 | Residual Benzene in Soil, 8 to 15 Feet BGS |
| Figure 8 | Residual MTBE in Soil, 8 to 15 Feet BGS |
| Figure 9 | Potential GRO Groundwater Plume Lengths Based on LTCP Technical Justification |
| Figure 10 | Potential Benzene Groundwater Plume Lengths Based on LTCP Technical Justification |
| Figure 11 | Potential MTBE Groundwater Plume Lengths Based on LTCP Technical Justification |
| Figure 12 | Groundwater Analytical Summary, Third Quarter 2015 |

Appendix A	Historical Soil Analytical Data
Appendix B	Historical Groundwater Analytical Data
Appendix C	Figure from October 2011 AEI Consultants Report Illustrating Soil Sampling Locations and Summarizing Analytical Results for these Samples
Appendix D	Historical Depth to Groundwater and Groundwater Elevation Data

cc: Mr. Pritpaul Sappal
Ms. Cherie McCaulou, Regional Water Quality Control Board (via GeoTracker)



GENERAL NOTES:
 BASE MAP FROM U.S.G.S.
 OAKLAND WEST, CA.
 7.5 MINUTE TOPOGRAPHIC
 PHOTOREVISED 2012



QUADRANGLE LOCATION



SCALE 1:24,000

STRATUS
 ENVIRONMENTAL, INC.

ALASKA GAS SERVICE STATION
 6211 SAN PABLO AVENUE
 OAKLAND, CALIFORNIA

FIGURE

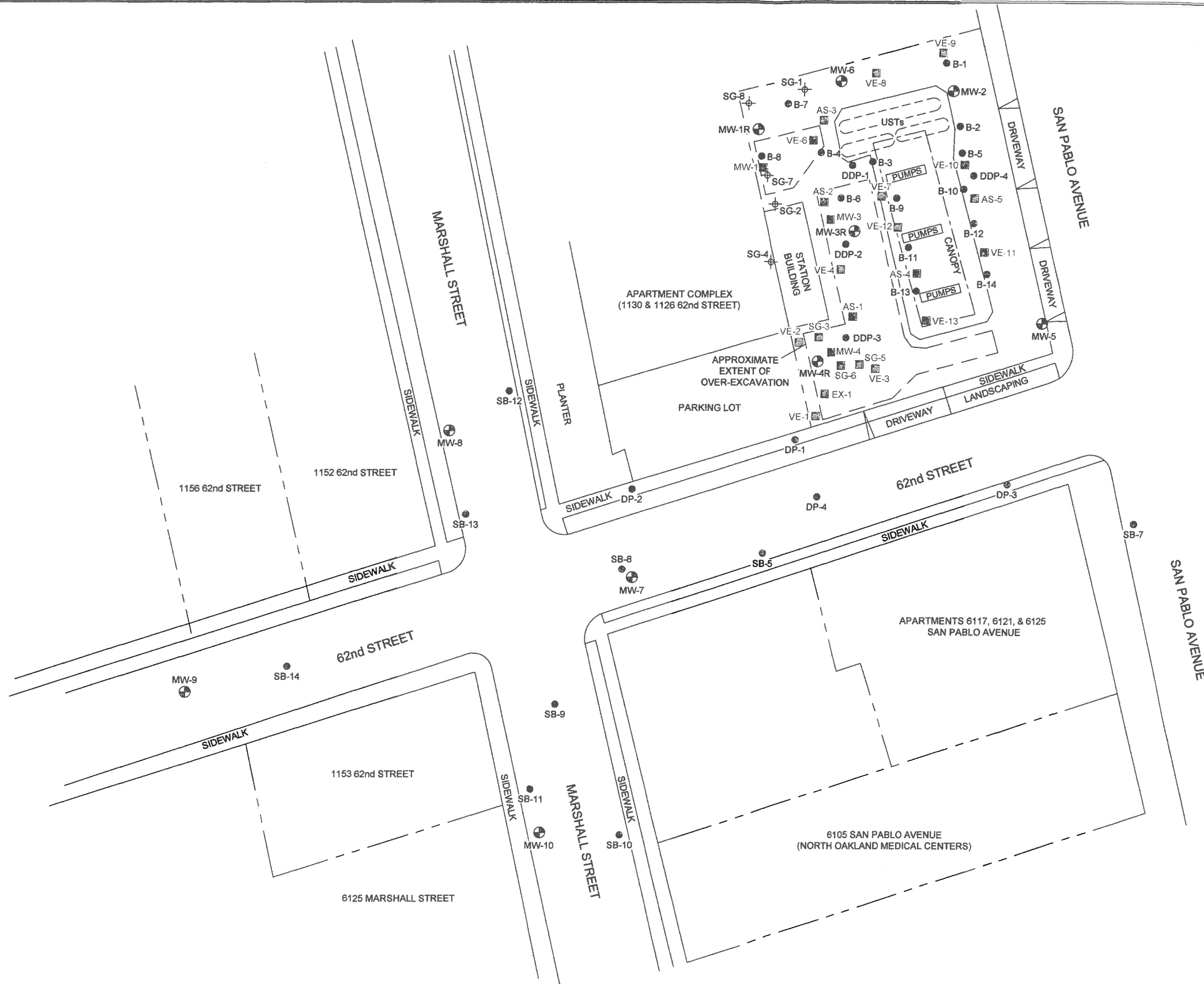
1

PROJECT NO.
 2192-6211-01

SITE LOCATION MAP



- LEGEND
- MW-1 MONITORING WELL LOCATION
 - SG-2 NESTED VAPOR PROBE LOCATIONS
 - B-1 SOIL BORING LOCATION
 - MW-1 ABANDONED WELL LOCATION



STRATUS
ENVIRONMENTAL, INC.

PATH NAME: Alaska Gas
 DRAFTER INITIALS: JMP
 DATE LAST REVISED: February 10, 2015
 FILENAME: Alaska Site Vicinity Map



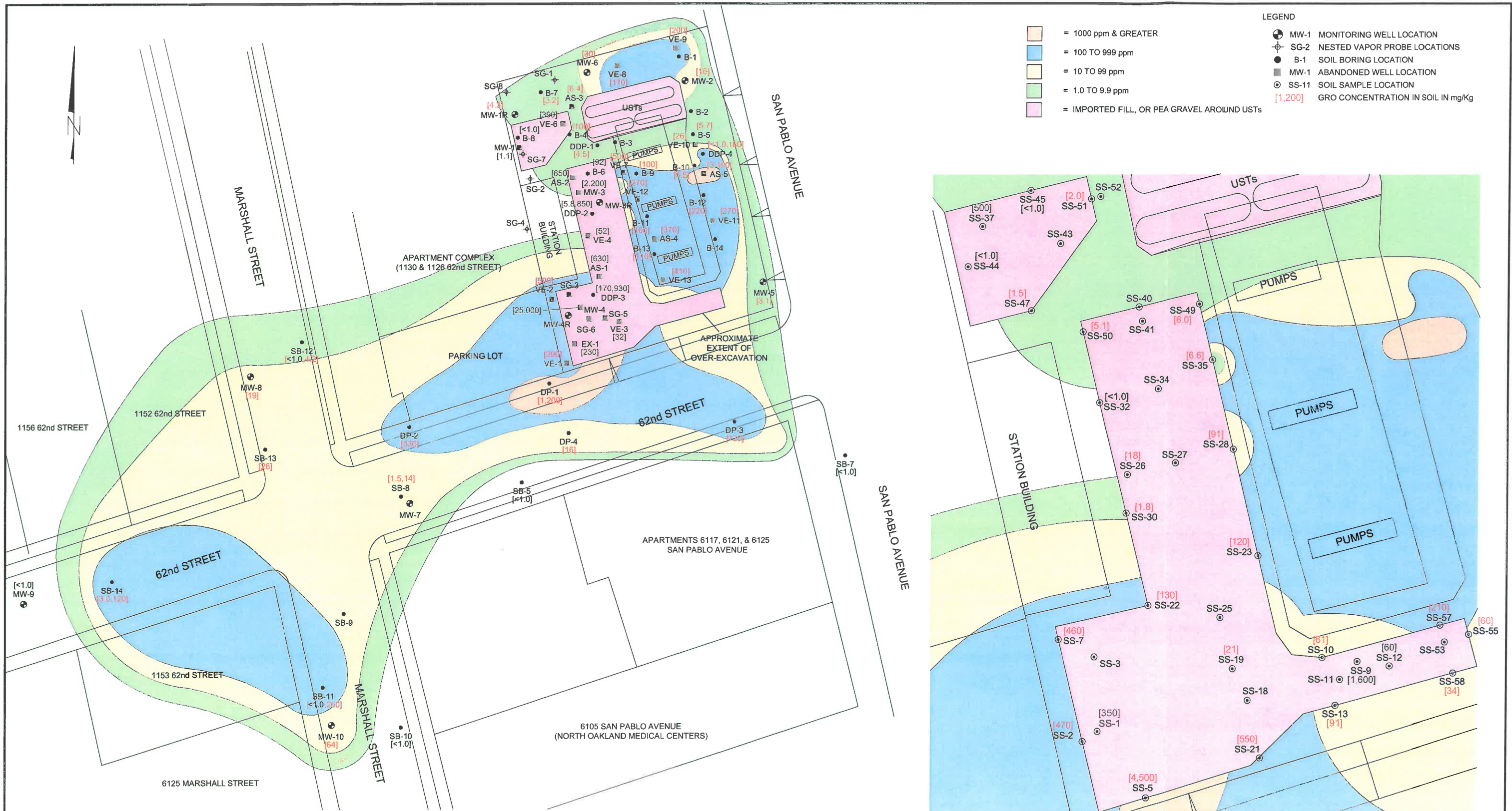
ALASKA GAS SERVICE STATION
 6211 SAN PABLO AVENUE
 OAKLAND, CALIFORNIA

SITE VICINITY MAP

FIGURE

2

PROJECT NO.
 2192-6211-01

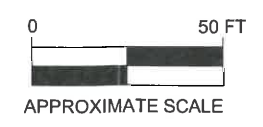


NOTE:
 1. THIS FIGURE WAS PREPARED USING AVAILABLE DATA COLLECTED AT VARIOUS TIMES BETWEEN 1999 AND 2011. THIS FIGURE IS INTENDED TO BE A GENERALIZED INTERPRETATION OF THE EXTENT OF GRO IMPACT IN THE SUB SURFACE.
 2. MORE THAN ONE SAMPLE MAY HAVE BEEN COLLECTED AT BORING LOCATIONS BETWEEN 2.5' AND 7.5' bgs.

SOIL SAMPLING LOCATIONS
 SCALE: 1" = 20'

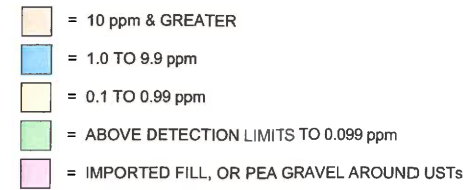


PATH NAME: Alaska Gas
 DRAFTER INITIALS: DMG
 DATE LAST REVISED: November 04, 2015
 FILENAME: Alaska Residual Sampling Map

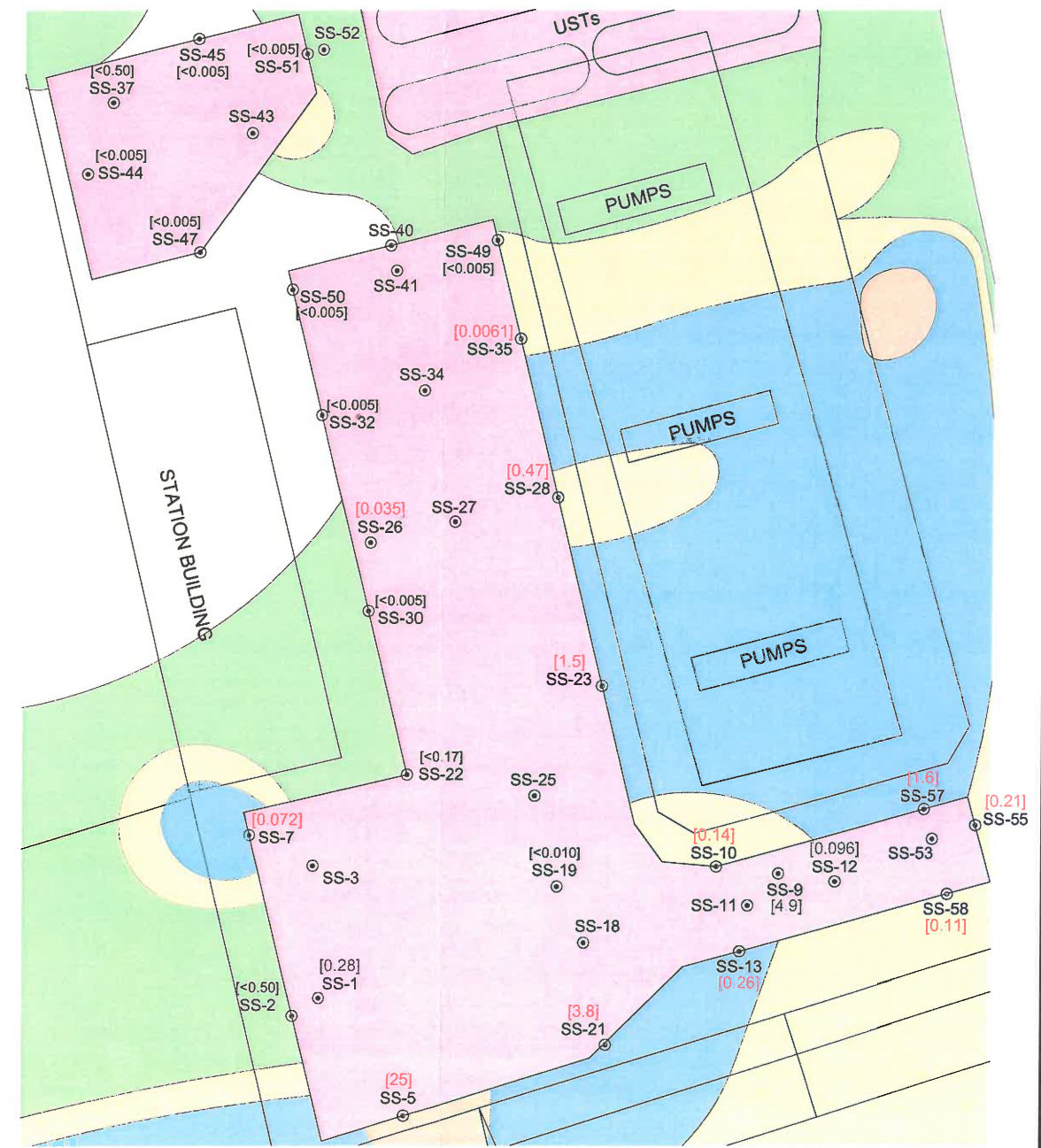


ALASKA GAS SERVICE STATION
 6211 SAN PABLO AVENUE
 OAKLAND, CALIFORNIA
 RESIDUAL GRO IN SOIL, 2.5' TO 7.5' bgs

FIGURE
3
 PROJECT NO.
 2192-6211-01



- LEGEND**
- ⊕ MW-1 MONITORING WELL LOCATION
 - ⊕ SG-2 NESTED VAPOR PROBE LOCATIONS
 - B-1 SOIL BORING LOCATION
 - MW-1 ABANDONED WELL LOCATION
 - ⊙ SS-11 SOIL SAMPLE LOCATION
 - [1.2] BENZENE CONCENTRATION IN SOIL IN mg/Kg



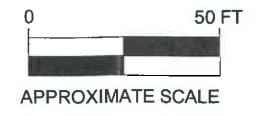
SOIL SAMPLING LOCATIONS

SCALE: 1" = 20'

NOTE:
 1. THIS FIGURE WAS PREPARED USING AVAILABLE DATA COLLECTED AT VARIOUS TIMES BETWEEN 1999 AND 2011. THIS FIGURE IS INTENDED TO BE A GENERALIZED INTERPRETATION OF THE EXTENT OF BENZENE IMPACT IN THE SIUB SURFACE.
 2. MORE THAN ONE SAMPLE MAY HAVE BEEN COLLECTED AT BORING LOCATIONS BETWEEN 2.5' AND 7.5' bgs.

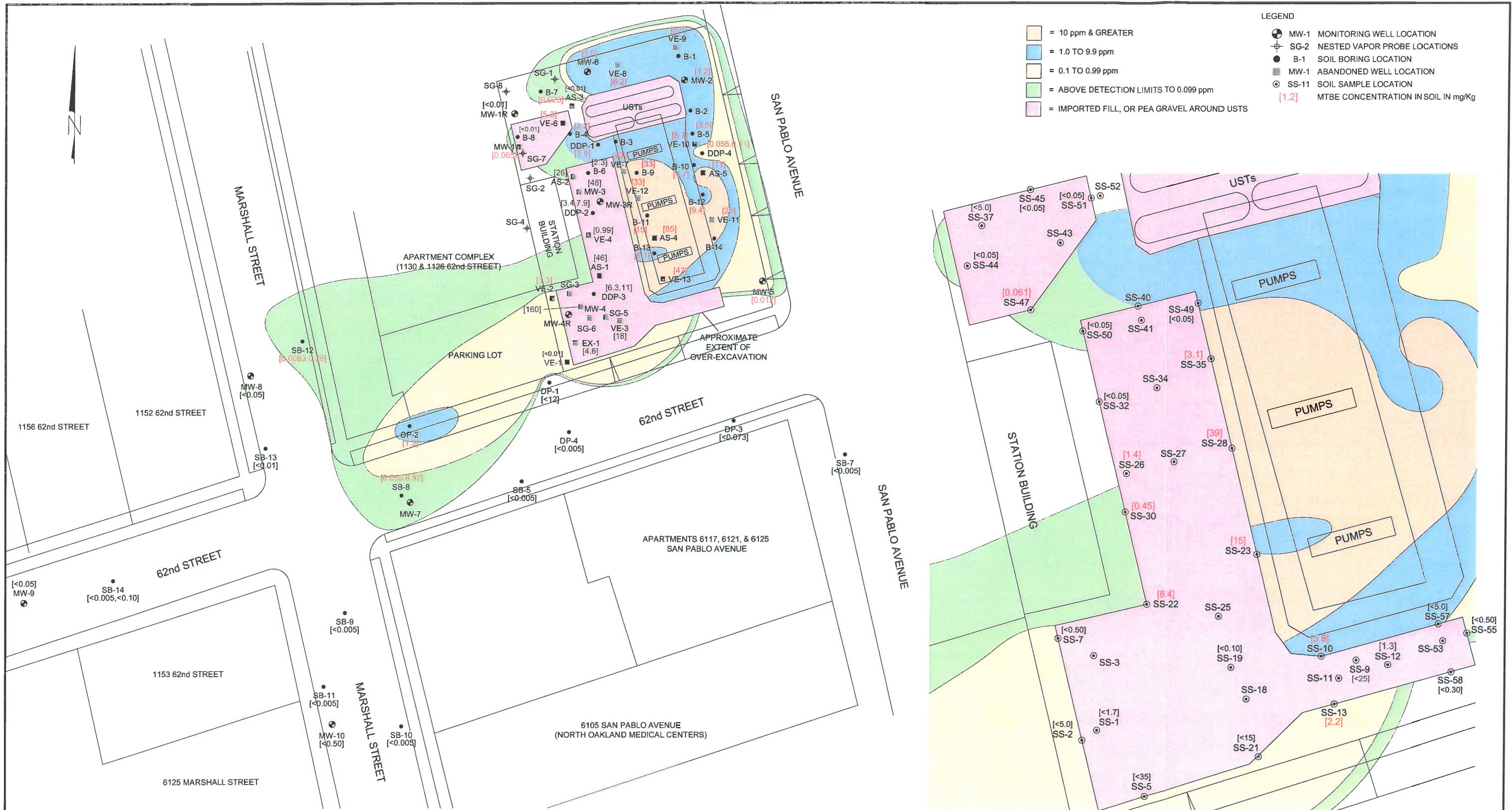


PATH NAME: Alaska Gas
 DRAFTER INITIALS: DMG
 DATE LAST REVISED: November 04, 2015
 FILENAME: Alaska Residual Sampling Map

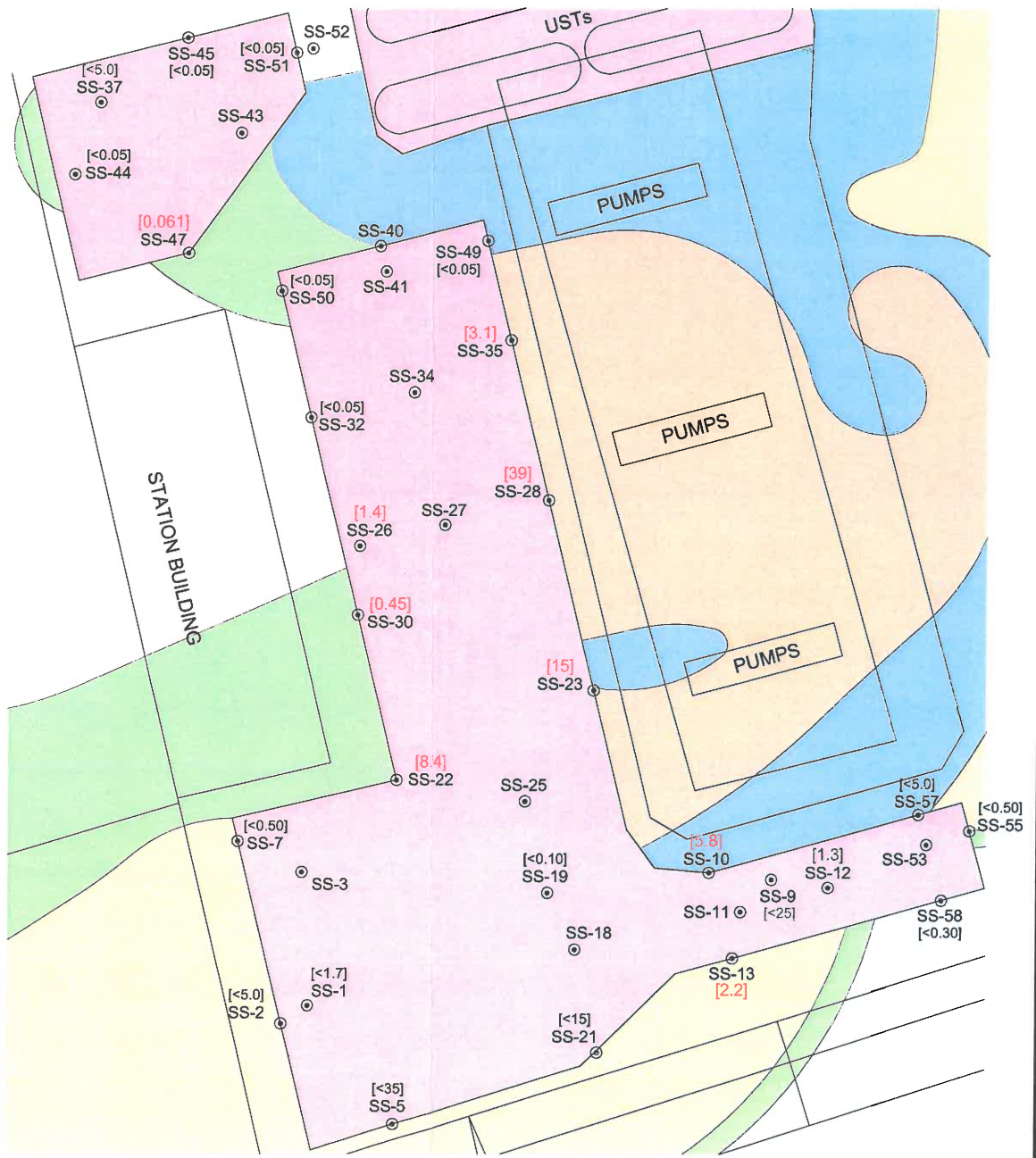


ALASKA GAS SERVICE STATION
 6211 SAN PABLO AVENUE
 OAKLAND, CALIFORNIA
 RESIDUAL BENZENE IN SOIL, 2.5' TO 7.5' bgs

FIGURE
4
 PROJECT NO.
 2192-6211-01



- LEGEND**
- = 10 ppm & GREATER
 - = 1.0 TO 9.9 ppm
 - = 0.1 TO 0.99 ppm
 - = ABOVE DETECTION LIMITS TO 0.099 ppm
 - = IMPORTED FILL, OR PEA GRAVEL AROUND USTs
 - MW-1 MONITORING WELL LOCATION
 - SG-2 NESTED VAPOR PROBE LOCATIONS
 - B-1 SOIL BORING LOCATION
 - MW-1 ABANDONED WELL LOCATION
 - SS-11 SOIL SAMPLE LOCATION
 - [1.2] MTBE CONCENTRATION IN SOIL IN mg/Kg



SOIL SAMPLING LOCATIONS

SCALE: 1" = 20'

NOTE:
 1. THIS FIGURE WAS PREPARED USING AVAILABLE DATA COLLECTED AT VARIOUS TIMES BETWEEN 1999 AND 2011. THIS FIGURE IS INTENDED TO BE A GENERALIZED INTERPRETATION OF THE EXTENT OF MTBE IMPACT IN THE SUB SURFACE.
 2. MORE THAN ONE SAMPLE MAY HAVE BEEN COLLECTED AT BORING LOCATIONS BETWEEN 2.5' AND 7.5' bgs.



PATH NAME: Alaska Gas
 DRAFTER INITIALS: DMG
 DATE LAST REVISED: November 04, 2015
 FILENAME: Alaska Residual Sampling Map



ALASKA GAS SERVICE STATION
 6211 SAN PABLO AVENUE
 OAKLAND, CALIFORNIA

RESIDUAL MTBE IN SOIL, 2.5' TO 7.5' bgs

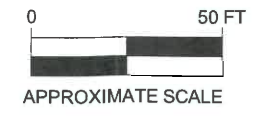
FIGURE
5
 PROJECT NO.
 2192-6211-01



- LEGEND**
- = 1000 ppm & GREATER
 - = 100 TO 999 ppm
 - = 10 TO 99 ppm
 - = 1.0 TO 9.9 ppm
 - = IMPORTED FILL, OR PEA GRAVEL AROUND USTs
 - MW-1 MONITORING WELL LOCATION
 - SG-2 NESTED VAPOR PROBE LOCATIONS
 - B-1 SOIL BORING LOCATION
 - MW-1 ABANDONED WELL LOCATION
 - SS-11 SOIL SAMPLE LOCATION
 - [1,200] GRO CONCENTRATION IN SOIL IN mg/Kg

NOTE:
 1. THIS FIGURE WAS PREPARED USING AVAILABLE DATA COLLECTED AT VARIOUS TIMES BETWEEN 1999 AND 2011, THIS FIGURE IS INTENDED TO BE A GENERALIZED INTERPRETATION OF THE EXTENT OF GRO IMPACT IN THE SUB SURFACE.
 2. MORE THAN ONE SAMPLE MAY HAVE BEEN COLLECTED AT BORING LOCATIONS BETWEEN 8' AND 15' bgs.

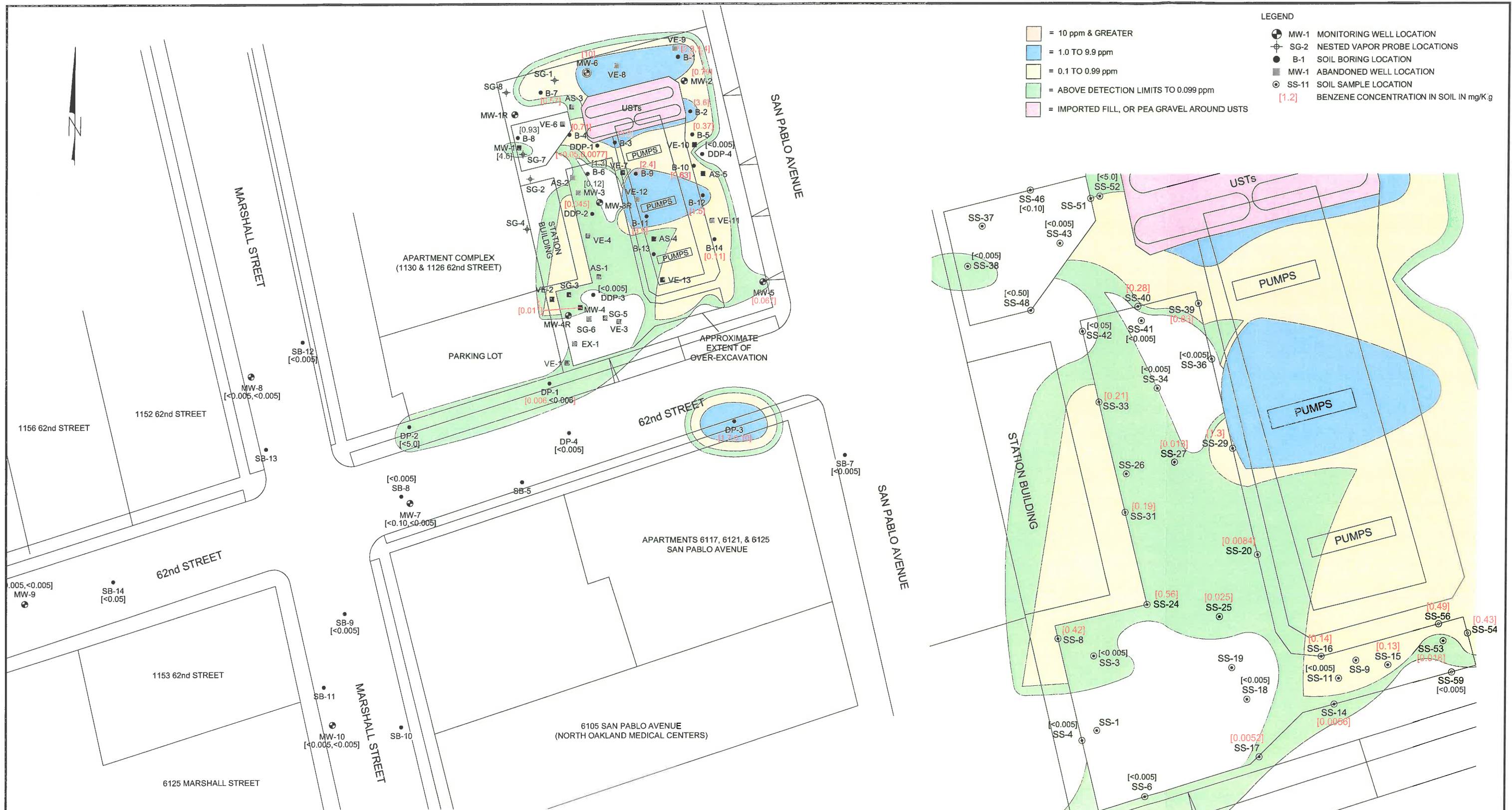
SOIL SAMPLING LOCATIONS
 SCALE: 1" = 20'



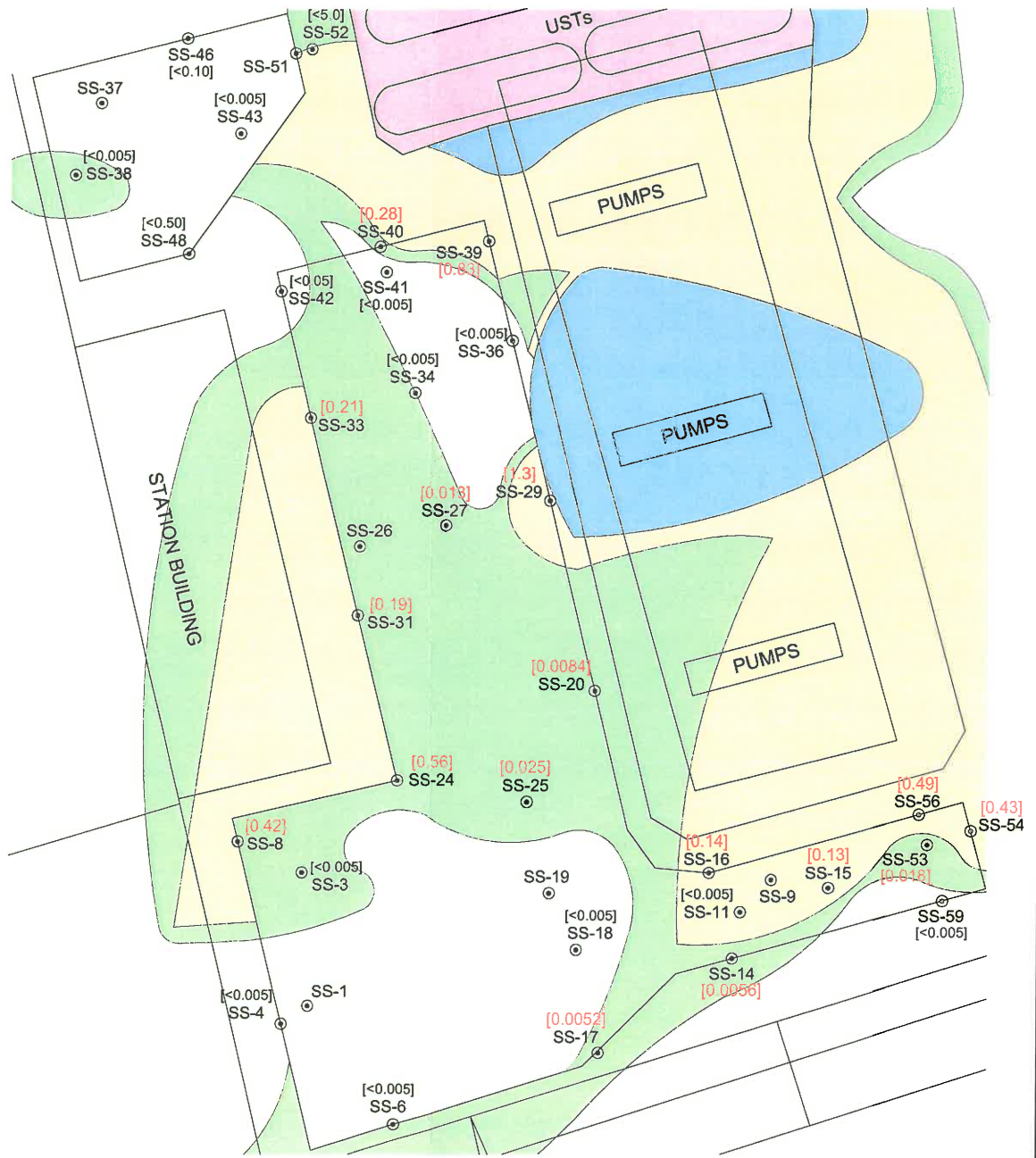
PATH NAME: Alaska Gas
 DRAFTER INITIALS: DMG
 DATE LAST REVISED: November 04, 2015
 FILENAME: Alaska Residual Sampling Map

ALASKA GAS SERVICE STATION
 6211 SAN PABLO AVENUE
 OAKLAND, CALIFORNIA
 RESIDUAL GRO IN SOIL, 8' TO 15' bgs

FIGURE
6
 PROJECT NO.
 2192-6211-01



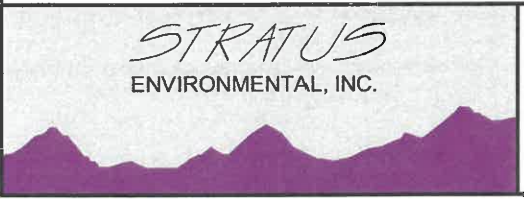
- LEGEND**
- = 10 ppm & GREATER
 - = 1.0 TO 9.9 ppm
 - = 0.1 TO 0.99 ppm
 - = ABOVE DETECTION LIMITS TO 0.099 ppm
 - = IMPORTED FILL, OR PEA GRAVEL AROUND USTs
 - MW-1 MONITORING WELL LOCATION
 - SG-2 NESTED VAPOR PROBE LOCATIONS
 - B-1 SOIL BORING LOCATION
 - MW-1 ABANDONED WELL LOCATION
 - SS-11 SOIL SAMPLE LOCATION
 - [1.2] BENZENE CONCENTRATION IN SOIL IN mg/Kg



SOIL SAMPLING LOCATIONS

SCALE: 1" = 20'

NOTE:
 1. THIS FIGURE WAS PREPARED USING AVAILABLE DATA COLLECTED AT VARIOUS TIMES BETWEEN 1999 AND 2011. THIS FIGURE IS INTENDED TO BE A GENERALIZED INTERPRETATION OF THE EXTENT OF BENZENE IMPACT IN THE SUB SURFACE.
 2. MORE THAN ONE SAMPLE MAY HAVE BEEN COLLECTED AT BORING LOCATIONS BETWEEN 8' AND 15' bgs.



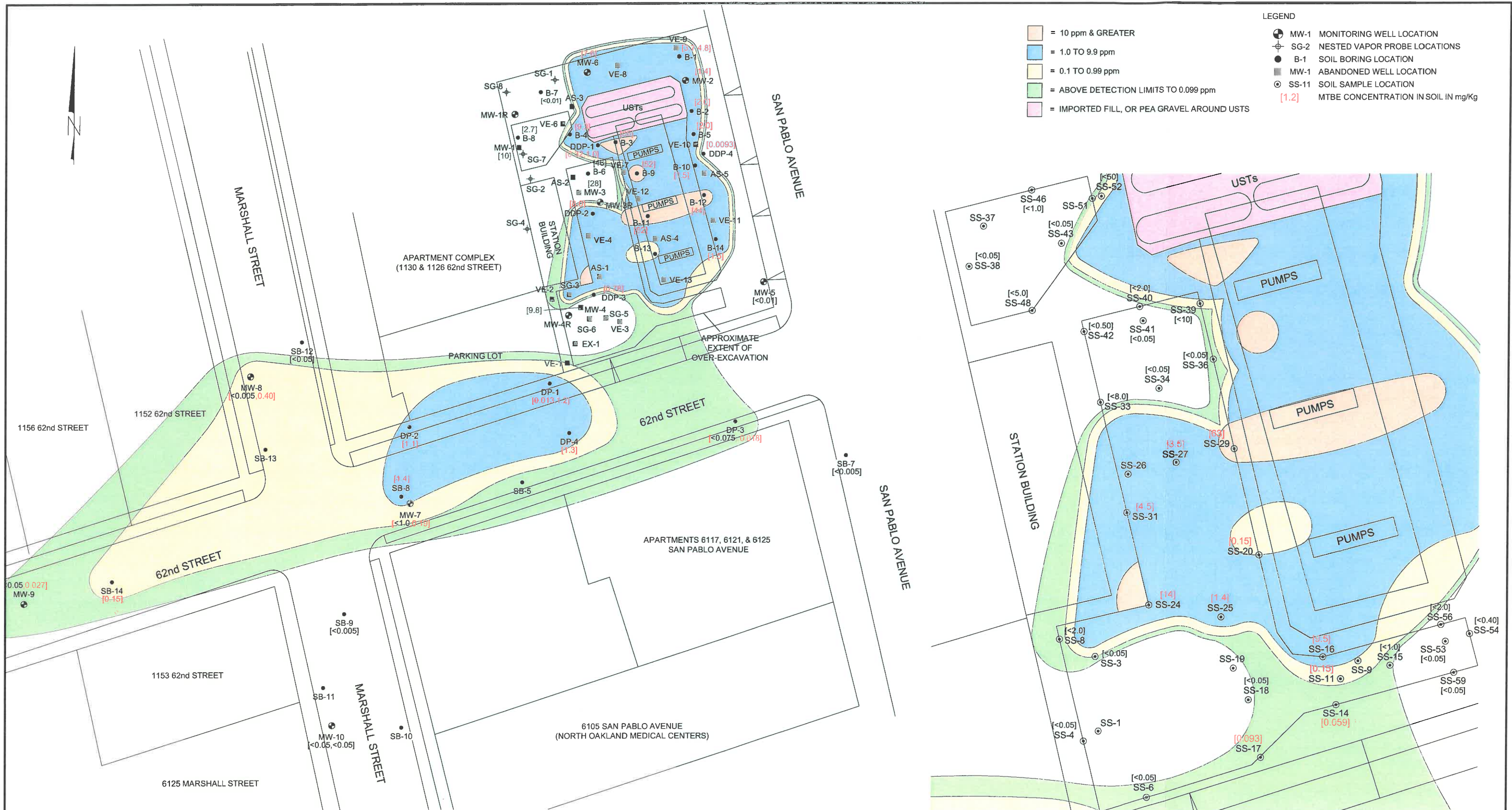
PATH NAME: Alaska Gas
 DRAFTER INITIALS: DMG
 DATE LAST REVISED: November 04, 2015
 FILENAME: Alaska Residual Sampling Map



ALASKA GAS SERVICE STATION
 6211 SAN PABLO AVENUE
 OAKLAND, CALIFORNIA

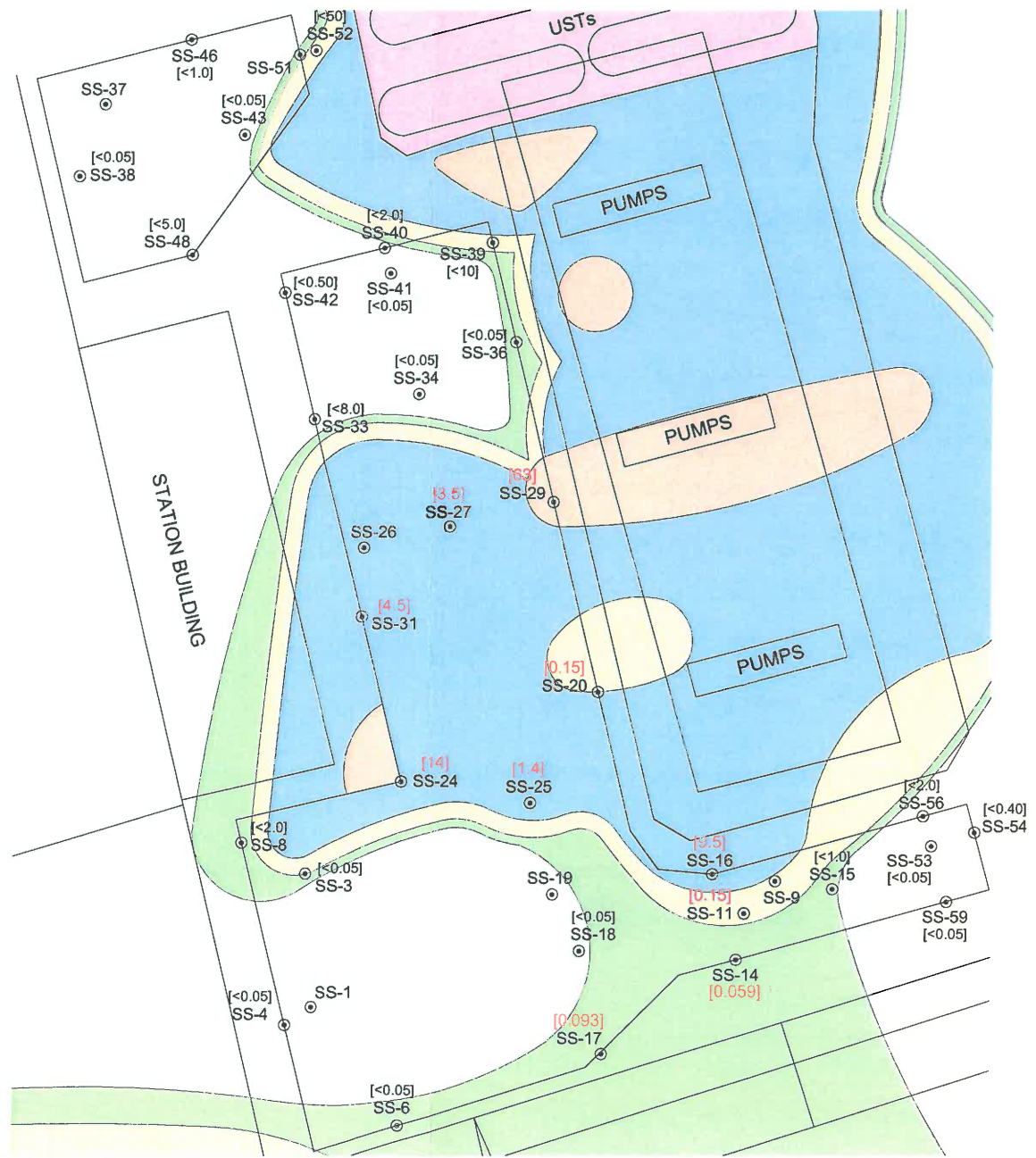
RESIDUAL BENZENE IN SOIL, 8' TO 15' bgs

FIGURE
7
 PROJECT NO.
 2192-6211-01



- = 10 ppm & GREATER
- = 1.0 TO 9.9 ppm
- = 0.1 TO 0.99 ppm
- = ABOVE DETECTION LIMITS TO 0.099 ppm
- = IMPORTED FILL, OR PEA GRAVEL AROUND USTs

- LEGEND**
- MW-1 MONITORING WELL LOCATION
 - SG-2 NESTED VAPOR PROBE LOCATIONS
 - B-1 SOIL BORING LOCATION
 - MW-1 ABANDONED WELL LOCATION
 - SS-11 SOIL SAMPLE LOCATION
 - [1.2] MTBE CONCENTRATION IN SOIL IN mg/Kg



NOTE:
 1. THIS FIGURE WAS PREPARED USING AVAILABLE DATA COLLECTED AT VARIOUS TIMES BETWEEN 1999 AND 2011, THIS FIGURE IS INTENDED TO BE A GENERALIZED INTERPRETATION OF THE EXTENT OF MTBE IMPACT IN THE SUB SURFACE.
 2. MORE THAN ONE SAMPLE MAY HAVE BEEN COLLECTED AT BORING LOCATIONS BETWEEN 8' AND 15' bgs.

STRATUS
 ENVIRONMENTAL, INC.

PATH NAME: Alaska Gas
 DRAFTER INITIALS: DMG
 DATE LAST REVISED: November 04, 2015
 FILENAME: Alaska Residual Sampling Map



ALASKA GAS SERVICE STATION
 6211 SAN PABLO AVENUE
 OAKLAND, CALIFORNIA
 RESIDUAL MTBE IN SOIL, 8' TO 15' bgs

FIGURE
8
 PROJECT NO.
 2192-6211-01



LEGEND:

- AVERAGE PLUME LENGTH (100 µg/L)
- 90TH PERCENTILE PLUME (100 µg/L)
- MAXIMUM PLUME LENGTH (100 µg/L)
- MEDICAL OFFICES WITHIN 2000' OF SITE
- SCHOOLS WITHIN 2000' OF SITE

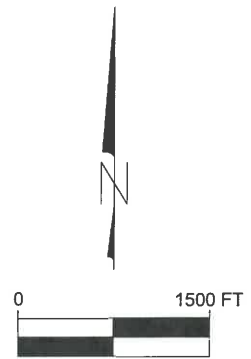
**PREDOMINANT GW
FLOW DIRECTION**

W-1 1351 OCEAN AVENUE, EMERYVILLE

GENERAL NOTES:
 BASE MAP FROM U.S.G.S.
 OAKLAND WEST, CA.
 7.5 MINUTE TOPOGRAPHIC
 PHOTOREVISED 2012



QUADRANGLE LOCATION



APPROXIMATE SCALE



ALASKA GAS SERVICE STATION
 6211 SAN PABLO AVENUE
 OAKLAND, CALIFORNIA
**POTENTIAL GRO GROUNDWATER PLUME
 LENGTHS BASED ON LTCP TECHNICAL
 JUSTIFICATION**

FIGURE
9
PROJECT NO.
2192-6211-01



LEGEND:

- AVERAGE PLUME LENGTH (5 µg/L)
- 90TH PERCENTILE PLUME (5 µg/L)
- MAXIMUM PLUME LENGTH (5 µg/L)
- MEDICAL OFFICES WITHIN 1/4-MILE OF SITE
- SCHOOLS WITHIN 1/4-MILE OF SITE

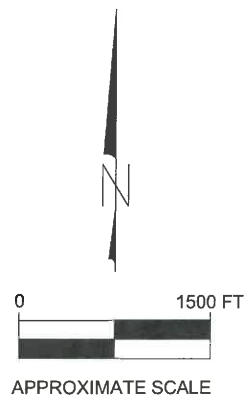
PREDOMINANT GW
FLOW DIRECTION

W-1 1351 OCEAN AVENUE, EMERYVILLE

GENERAL NOTES:
 BASE MAP FROM U.S.G.S.
 OAKLAND WEST, CA.
 7.5 MINUTE TOPOGRAPHIC
 PHOTOREVISED 2012



QUADRANGLE LOCATION



ALASKA GAS SERVICE STATION
 6211 SAN PABLO AVENUE
 OAKLAND, CALIFORNIA
 POTENTIAL BENZENE GROUNDWATER PLUME
 LENGTHS BASED ON LTCP TECHNICAL
 JUSTIFICATION

FIGURE
10
 PROJECT NO.
 2192-6211-01



LEGEND:

- AVERAGE PLUME LENGTH (5 µg/L)
- 90TH PERCENTILE PLUME (5 µg/L)
- MAXIMUM PLUME LENGTH (5 µg/L)
- MEDICAL OFFICES WITHIN 1/4-MILE OF SITE
- SCHOOLS WITHIN 1/4-MILE OF SITE

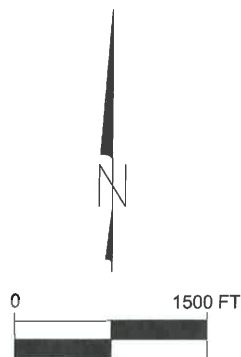
PREDOMINANT GW
FLOW DIRECTION

W-1 1351 OCEAN AVENUE, EMERYVILLE

GENERAL NOTES:
 BASE MAP FROM U.S.G.S.
 OAKLAND WEST, CA.
 7.5 MINUTE TOPOGRAPHIC
 PHOTOREVISED 2012



QUADRANGLE LOCATION

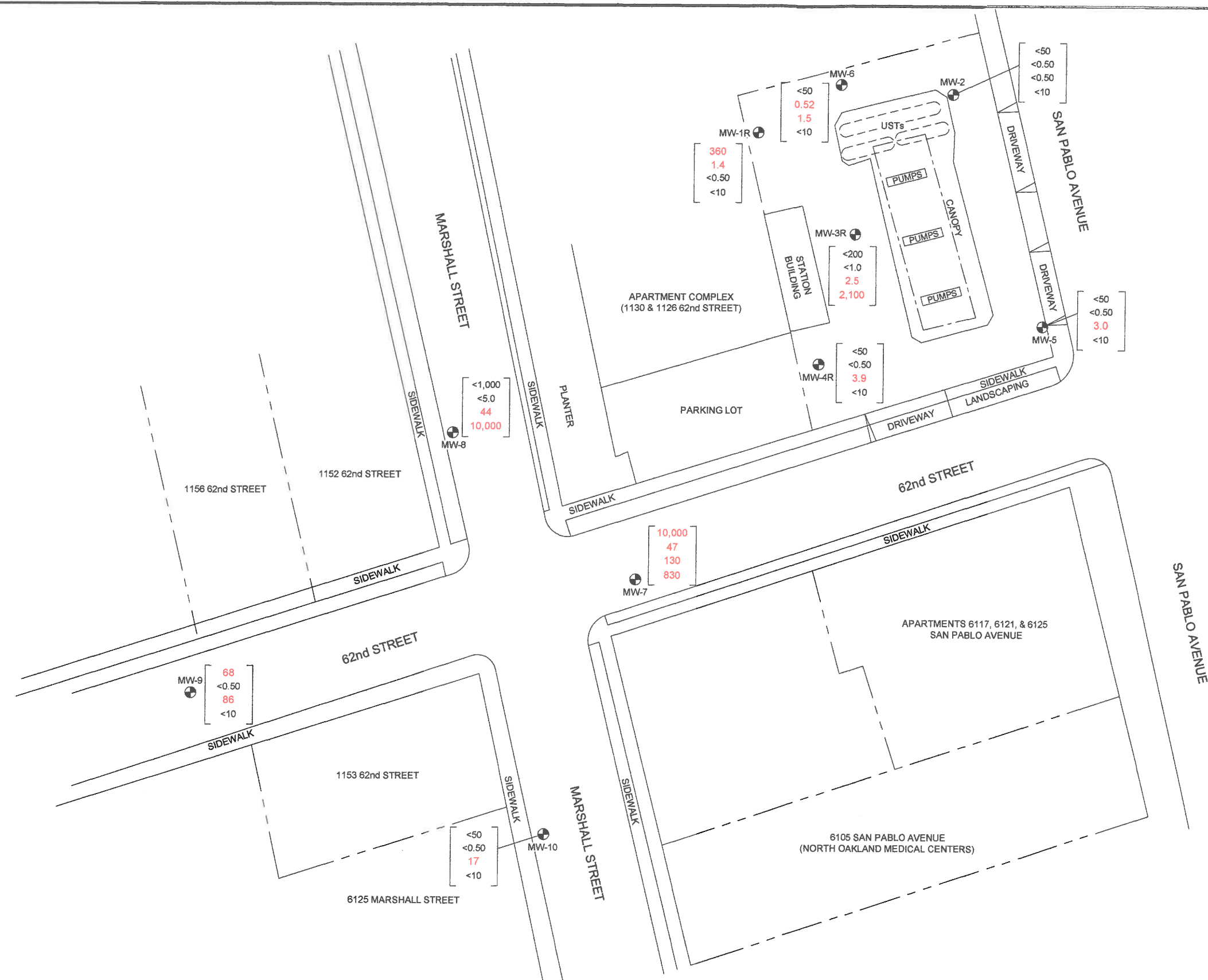


APPROXIMATE SCALE

STRATUS
 ENVIRONMENTAL, INC.

ALASKA GAS SERVICE STATION
 6211 SAN PABLO AVENUE
 OAKLAND, CALIFORNIA
 POTENTIAL MTBE GROUNDWATER PLUME
 LENGTHS BASED ON LTCP TECHNICAL
 JUSTIFICATION

FIGURE
11
 PROJECT NO.
 2192-6211-01



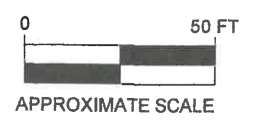
LEGEND

- MW-1 MONITORING WELL LOCATION
- [<50] GASOLINE RANGE ORGANICS (GRO) IN µg/L
- [<0.50] BENZENE CONCENTRATION IN µg/L
- [<0.50] METHYL TERTIARY BUTYL ETHER (MTBE) IN µg/L
- [<10] TERTIARY BUTYL ALCOHOL (TBA) IN µg/L

ALL WELLS SAMPLED ON 07/09/15
 GRO ANALYZED BY EPA METHOD SW8015B/SW8260B
 TBA, MTBE, & BENZENE ANALYZED BY EPA METHOD SW8260B

STRATUS
ENVIRONMENTAL, INC.

PATH NAME: Alaska GasQuarterly Figures
 DRAFTER INITIALS: JED
 DATE LAST REVISED: August 27, 2015
 FILENAME: Alaska Quarterly Figures



ALASKA GAS SERVICE STATION
 6211 SAN PABLO AVENUE
 OAKLAND, CALIFORNIA

GROUNDWATER ANALYTICAL SUMMARY
 3rd QUARTER 2015

FIGURE
12
 PROJECT NO.
 2192-6211-01

APPENDIX A
HISTORICAL SOIL ANALYTICAL DATA

Table 8, 6211 San Pablo Avenue, Oakland, CA - AEI Project # 280346

Soil Analytical Data - Excavation Activities

Sample ID	Date	Depth (feet bgs)	TPHg mg/kg	Benzene mg/kg	Toluene mg/kg	Ethylbenzene mg/kg	Xylenes mg/kg	MTBE mg/kg
SS-1	5/26/2011	6	350	0.28	3.6	5.0	30	ND<1.7
SS-2	5/26/2011	6	470	ND<0.50	0.91	6.3	39	ND<5.0
SS-3	5/26/2011	10	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.05
SS-4	5/26/2011	11	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.05
SS-5	5/26/2011	6	4,500	25	140	80	390	ND<35
SS-6	5/26/2011	12	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.05
SS-7	5/26/2011	6	460	0.072	2.2	1.4	5.9	ND<0.50
SS-8	5/26/2011	11	460	0.42	7.7	7.1	41	ND<2.0
SS-9	5/27/2011	7.5	1,600	4.9	46	27	150	ND<25
SS-10	5/27/2011	5	61	0.14	0.72	0.68	3.5	5.8
SS-11	5/27/2011	10	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	0.15
SS-12	5/27/2011	5	60	0.096	0.31	0.57	2.2	1.3
SS-13	5/27/2011	5	91	0.26	0.18	0.97	1.9	2.2
SS-14	5/27/2011	10	ND<1.0	0.0056	0.0068	0.0068	0.026	0.059
SS-15	5/27/2011	9.5	220	0.13	0.43	1.9	11	ND<1.0
SS-16	5/27/2011	10	270	0.14	1.5	3.6	22	9.5
SS-17	5/31/2011	10	ND<1.0	0.0052	ND<0.005	ND<0.005	ND<0.005	0.093
SS-18	5/31/2011	10	ND<1.0	ND<0.005	ND<0.005	ND<0.005	0.011	ND<0.05
SS-19	5/31/2011	6	21	ND<0.010	0.15	ND<0.010	0.026	ND<0.10
SS-20	5/31/2011	10.5	ND<1.0	0.0084	0.024	ND<0.005	0.017	0.15
SS-21	5/31/2011	5	550	3.8	19	7.9	41	ND<15
SS-22	5/31/2011	5	130	ND<0.17	0.92	2.0	7.4	8.4
SS-23	5/31/2011	5	120	1.5	3.9	2.1	12	15
SS-24	6/2/2011	10.5	150	0.56	1.3	2.2	9.7	14
SS-25	6/2/2011	11	ND<1.0	0.025	0.0078	0.0065	0.0058	1.4
SS-26	6/2/2011	7	18	0.035	0.037	0.071	0.12	1.4
SS-27	6/2/2011	11	ND<1.0	0.013	0.013	ND<0.005	0.029	3.5
SS-28	6/2/2011	5	91	0.47	1.8	1.9	12	39
SS-29	6/2/2011	10.5	90	1.3	0.60	1.4	1.8	63
SS-30	6/2/2011	5	1.8	ND<0.005	0.015	ND<0.005	ND<0.005	0.45
SS-31	6/2/2011	10.5	35	0.19	0.43	0.19	0.48	4.5
SS-32	6/3/2011	5	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.050
SS-33	6/3/2011	10.5	410	0.21	1.3	3.4	22	ND<8.0
SS-34	6/3/2011	10	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.050
SS-35	6/3/2011	5	6.6	0.0061	0.021	0.011	0.067	3.1
SS-36	6/3/2011	10.5	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.050
SS-37	6/7/2011	6	500	ND<0.50	2.1	4.8	20	ND<5.0
SS-38	6/7/2011	11.5	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.050
SS-39	6/7/2011	10	280	0.83	1.9	3.4	3.0	ND<10
SS-40	6/7/2011	10	150	0.28	0.99	2.0	2.5	ND<2.0
SS-41	6/7/2011	10.5	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.050
SS-42	6/7/2011	10	45	ND<0.050	0.35	0.12	0.20	ND<0.50
SS-43	6/7/2011	11	5.3	ND<0.005	0.051	ND<0.005	0.017	ND<0.050
SS-44	6/7/2011	5	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.050
SS-45	6/7/2011	5	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.050
SS-46	6/7/2011	10	340	ND<0.10	2.8	0.11	0.89	ND<1.0
SS-47	6/7/2011	5	1.5	ND<0.005	0.023	ND<0.005	ND<0.005	0.061
SS-48	6/7/2011	10	420	ND<0.50	2.1	5.7	7.1	ND<5.0
SS-49	6/7/2011	5	6.0	ND<0.005	0.010	ND<0.005	0.0072	ND<0.050
SS-50	6/7/2011	5	5.1	ND<0.005	0.042	ND<0.005	0.016	ND<0.050
SS-51	6/8/2011	5	2.0	ND<0.005	0.023	ND<0.005	0.021	ND<0.050
SS-52	6/8/2011	10	3,800	ND<5.0	29	64	450	ND<50
SS-53	6/8/2011	11	ND<1.0	0.018	ND<0.005	ND<0.005	ND<0.005	ND<0.050
SS-54	6/8/2011	10	100	0.43	0.61	1.3	2.0	ND<0.40
SS-55	6/8/2011	5	60	0.21	0.19	0.19	0.089	ND<0.50
SS-56	6/8/2011	10	240	0.49	1.5	1.8	3.7	ND<2.0
SS-57	6/8/2011	5	210	1.6	0.32	3.2	11	ND<5.0
SS-58	6/8/2011	5	34	0.11	0.10	0.083	0.13	ND<0.30
SS-59	6/8/2011	10	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.050

Notes:

TPHg = total petroleum hydrocarbons as gasoline using EPA Method 8015

Benzene, toluene, ethylbenzene, and xylenes using EPA Method 8021B

MTBE = methyl-tertiary butyl ether using EPA Method 8021B

mg/kg = milligrams per kilogram

ND = non detect at respective reporting limit

NA = not analyzed

Soil sample over-excavated during excavation activities



7.0 – Historical Chemical Concentrations

7.1 Soil

Soil Historical Soil Analytical Results

Alaska Gasoline
6211 San Pablo Avenue
Oakland, California

Sample ID	Sample Depth	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	DIPE	ETBE	TAME	TBA	1,2-DCA	EDB
Parts Per Million													
4/16/1999	B-1 @ 10'	10	440	2.3	4.8	7.4	31	3.7	NA	NA	NA	NA	NA
4/16/1999	B-1 @ 15'	15	74	1.4	1.6	1.6	6.3	4.8	NA	NA	NA	NA	NA
4/16/1999	B-2 @ 10'	10	290	3.6	9.0	5.8	24	2.0	NA	NA	NA	NA	NA
4/16/1999	B-3 @ 10'	10	460	3.8	18	7.6	37	86	NA	NA	NA	NA	NA
6/29/1999	B-4 @ 5'	5	100	0.68	1.4	1.5	7.8	2.2	NA	NA	NA	NA	NA
6/29/1999	B-4 @ 10'	10	14	0.71	<0.0050	0.23	0.11	9.3	NA	NA	NA	NA	NA
6/29/1999	B-5 @ 5'	5	5.7	0.068	0.0061	0.033	0.065	3.5	NA	NA	NA	NA	NA
6/29/1999	B-5 @ 10'	10	34	0.37	0.079	0.17	0.57	2.0	NA	NA	NA	NA	NA
6/29/1999	B-6 @ 5'	5	92	2.3	5.4	1.5	7.0	23	NA	NA	NA	NA	NA
6/29/1999	B-6 @ 10'	10	30	1.3	<0.0050	<0.0050	0.060	46	NA	NA	NA	NA	NA
6/29/1999	B-7 @ 5'	5	3.2	0.12	<0.0050	0.073	0.14	0.023	NA	NA	NA	NA	NA
6/29/1999	B-7 @ 10'	10	280	0.57	0.56	2.8	14	<0.010	NA	NA	NA	NA	NA
6/29/1999	B-8 @ 5'	5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	NA	NA	NA	NA	NA
6/29/1999	B-8 @ 10'	10	270	0.93	2.9	4.6	20	2.7	NA	NA	NA	NA	NA
10/11/1999	MW-1 @ 5'	5	1.1	0.14	<0.0050	0.017	0.016	0.065	NA	NA	NA	NA	NA
10/11/1999	MW-1 @ 10'	10	570	4.6	18	10	47	10	NA	NA	NA	NA	NA



Soil Historical Soil Analytical Results

Alaska Gasoline
6211 San Pablo Avenue
Oakland, California

Sample ID	Sample Depth	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	DIPE	ETBE	TAME	TBA	1,2-DCA	EDB	
														Parts Per Million
10/11/1999	MW-2 @ 5'	5	16	0.25	<0.0050	0.26	0.30	1.2	NA	NA	NA	NA	NA	NA
10/11/1999	MW-2 @ 10'	10	22	0.79	0.38	0.52	2.1	1.4	NA	NA	NA	NA	NA	NA
10/11/1999	MW-3 @ 5'	5	2,200	11	63	35	170	48	NA	NA	NA	NA	NA	NA
10/11/1999	MW-3 @ 10'	10	14	0.12	0.080	<0.0050	0.087	28	NA	NA	NA	NA	NA	NA
11/16/2001	MW-4 @ 5'	5	25,000	250	1,700	510	2,700	160	NA	NA	NA	NA	NA	NA
11/16/2001	MW-4 @ 10'	10	4.6	0.011	0.080	0.033	0.19	9.8	NA	NA	NA	NA	NA	NA
11/16/2001	MW-5 @ 5'	5	3.1	<0.0050	0.0064	0.0051	0.0070	0.012	NA	NA	NA	NA	NA	NA
11/16/2001	MW-5 @ 10'	10	17	0.067	0.018	0.20	0.25	<0.010	NA	NA	NA	NA	NA	NA
11/16/2001	MW-6 @ 5'	5	30	0.57	0.14	0.72	2.9	1.5	NA	NA	NA	NA	NA	NA
11/16/2001	MW-6 @ 10'	10	1,900	10	64	37	190	7.6	NA	NA	NA	NA	NA	NA
11/16/2001	B-9 @ 5'	5	100	0.91	1.8	1.8	7.9	33	NA	NA	NA	NA	NA	NA
11/16/2001	B-9 @ 10'	10	250	2.4	6.6	4.5	20	52	NA	NA	NA	NA	NA	NA
11/16/2001	B-10 @ 5'	5	5.5	0.18	0.015	0.11	0.16	4.7	NA	NA	NA	NA	NA	NA
11/16/2001	B-10 @ 10'	10	200	0.63	4.1	3.6	19	1.5	NA	NA	NA	NA	NA	NA
11/16/2001	B-11 @ 5'	5	160	0.84	4.3	2.6	15	15	NA	NA	NA	NA	NA	NA
11/16/2001	B-11 @ 10'	10	530	3.9	36	10	58	82	NA	NA	NA	NA	NA	NA
11/16/2001	B-12 @ 5'	5	220	1.1	6.8	4.2	21	9.4	NA	NA	NA	NA	NA	NA
11/16/2001	B-12 @ 10'	10	99	1.5	4.8	1.8	9.3	44	NA	NA	NA	NA	NA	NA
11/16/2001	B-13 @ 5'	5	110	1.7	5.0	2.1	11	8.1	NA	NA	NA	NA	NA	NA



Soil Historical Soil Analytical Results

Alaska Gasoline
6211 San Pablo Avenue
Oakland, California

Sample ID	Sample Depth	Parts Per Million												
		TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	DIPE	ETBE	TAME	TBA	1,2-DCA	EDB	
11/16/2001	B-14 @ 10'	10	22	0.11	0.047	0.12	0.0056	1.5	NA	NA	NA	NA	NA	NA
1/15/2004	AS-1 @ 6'	6	630	5.9	48	13	74	46	NA	NA	NA	NA	NA	NA
1/15/2004	AS-2 @ 5'	5	650	3.5	34	13	69	26	NA	NA	NA	NA	NA	NA
1/14/2004	AS-3 @ 5'	5	6.4	0.031	0.033	0.062	0.28	<0.01	NA	NA	NA	NA	NA	NA
1/14/2004	AS-4 @ 5'	5	370	2.7	24	7.2	44	85	NA	NA	NA	NA	NA	NA
1/14/2004	AS-5 @ 5'	5	3400	16	160	90	510	11	NA	NA	NA	NA	NA	NA
1/13/2004	VE-1 @ 4'	4	390	2.2	15	8.9	46	<0.01	NA	NA	NA	NA	NA	NA
1/13/2004	VE-2 @ 5'	5	590	4.5	29	14	73	1.3	NA	NA	NA	NA	NA	NA
1/13/2004	VE-3 @ 5'	5	32	0.84	1.1	0.82	4.4	18	NA	NA	NA	NA	NA	NA
1/13/2004	VE-4 @ 5'	5	52	0.28	1.6	1.2	6.3	0.99	NA	NA	NA	NA	NA	NA
1/13/2004	VE-5 @ 6'	6	83	2.2	9.5	1.7	10	59	NA	NA	NA	NA	NA	NA
1/13/2004	VE-6 @ 6'	6	390	1.6	14	9.8	56	5.3	NA	NA	NA	NA	NA	NA
1/13/2004	VE-7 @ 5'	5	500	1.5	20	9.9	57	43	NA	NA	NA	NA	NA	NA
1/13/2004	VE-8 @ 5'	5	170	0.39	2.4	3.0	17	6.2	NA	NA	NA	NA	NA	NA



Soil Historical Soil Analytical Results

Alaska Gasoline
6211 San Pablo Avenue
Oakland, California

Sample ID	Sample Depth	Parts Per Million												
		TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	DIPE	ETBE	TAME	TBA	1,2-DCA	EDB	
1/13/2004	VE-9 @ 5'	5	200	0.43	2.4	4.5	22	5.5	NA	NA	NA	NA	NA	NA
1/13/2004	VE-10 @ 5'	5	26	0.13	0.11	0.42	2.0	8.7	NA	NA	NA	NA	NA	NA
1/14/2004	VE-11 @ 5'	5	270	1.3	0.67	6.9	35	20	NA	NA	NA	NA	NA	NA
1/14/2004	VE-12 @ 5'	5	270	2.1	16	6.1	36	33	NA	NA	NA	NA	NA	NA
1/14/2004	VE-13 @ 5'	5	410	2.7	22	9.2	53	47	NA	NA	NA	NA	NA	NA
1/12/2004	EX-1 @ 3'	3	230	2.2	13	5.5	27	4.6	NA	NA	NA	NA	NA	NA
1/12/2004	MW-1R @ 5'	5	4.3	0.060	0.20	0.14	0.68	<0.01	NA	NA	NA	NA	NA	NA
3/27/2007	S-1 @ 6.5 fbg	6.5	20	ND	3	ND	2	5	ND	ND	ND	730	ND	ND
3/27/2007	S-2 @ 6.5 fbg	6.5	0.4	ND	3	ND	ND	7	ND	ND	ND	200	ND	ND
3/27/2007	S-3 @ 6.5 fbg	6.5	30	ND	15	7	8	20	ND	ND	ND	400	ND	ND
3/27/2007	S-4 @ 6.5 fbg	6.5	0.4	ND	5	1	5	3	ND	ND	ND	260	ND	ND
8/11/2007	DP-1 @ 6	6	1,200	3.7 J	17	20	99	<12	<0.15	<0.15	<0.15	<2.9	<0.15	<0.15
8/11/2007	DP-1 @ 10.5	10.5	0.4 J	0.006 J	0.01 J	0.007 J	0.03 J	0.013	<0.001	<0.001	<0.001	2.10	<0.001	<0.01
8/11/2007	DP-1 @ 14	14	1.5	<0.006	0.01 J	0.01 J	0.05 J	1.2	<0.001	<0.001	0.12	3.7 J	<0.001	<0.001
8/11/2007	DP-2 @ 5	5	530	2.6	2.9	13	66	1.3	<0.160	<0.160	<0.160	<3.3	<0.160	<0.160



Soil Historical Soil Analytical Results

Alaska Gasoline
6211 San Pablo Avenue
Oakland, California

Sample ID	Sample Depth	Parts Per Million												
		TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	DIPE	ETBE	TAME	TBA	1,2-DCA	EDB	
8/11/2007	DP-2 @ 8.5	8.5	680	<5.0	3.2 J	14	65	1.1	<0.160	<0.160	<0.160	<3.1	<0.160	<0.160
8/11/2007	DP-2 @ 15.5	15.5	2.4	<0.006	<0.006	<0.006	<0.02	1.7	<0.006	<0.006	0.190	0.83	<0.006	<0.006
8/11/2007	DP-3 @ 5	5	130	0.1 J	1	1.5	8.7	<0.073	<0.150	<0.150	<0.150	<2.9	<0.150	<0.150
8/11/2007	DP-3 @ 8	8	880	1.7	14	14	63	<0.075	<0.150	<0.150	<0.150	<3.0	<0.150	<0.150
8/11/2007	DP-3 @ 12	12	19	0.1	2.2	0.8	3.7	0.018 J	<0.006	<0.006	<0.006	<0.120	<0.006	<0.006
8/11/2007	DP-3 @ 16	16	0.8 J	0.01 J	0.1	0.02 J	0.07	0.006 J	<0.001	<0.001	<0.001	<0.024	<0.001	<0.001

- "J" flag indicates a laboratory estimated value

Table 1, 6211 San Pablo Avenue, Oakland, CA - AEI Project # 280346

Soil Analytical Data

Sample ID	Date	Depth (feet bgs)	TPHg mg/kg	Benzene mg/kg	Toluene mg/kg	Ethylbenzene mg/kg	Xylenes mg/kg	MTBE mg/kg	DIPE mg/kg	ETBE mg/kg	TAME mg/kg	TBA mg/kg	1,2-DCA mg/kg	EDB mg/kg
DP-4														
DP-4-3.5	11/24/2008	3.5	16	ND<0.005	0.037	ND<0.005	0.041	ND<0.005	ND<0.005	ND<0.005	ND<0.005	0.15	ND<0.004	ND<0.004
DP-4-7.5	11/24/2008	7.5	16	ND<0.005	0.12	0.016	0.032	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.05	ND<0.004	ND<0.004
DP-4-15	11/24/2008	15	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	1.3	ND<0.10	ND<0.10	0.12	ND<1.0	ND<0.080	ND<0.080
SB-5														
SB-5-7.5	11/25/2008	7.5	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.05	ND<0.004	ND<0.004
SB-7														
SB-7-3.5	11/25/2008	3.5	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.05	ND<0.004	ND<0.004
SB-7-10.5	11/25/2008	10.5	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.05	ND<0.004	ND<0.004
SB-8														
SB-8-3.5	11/24/2008	3.5	1.5	ND<0.005	0.024	ND<0.005	ND<0.005	0.055	ND<0.005	ND<0.005	ND<0.005	ND<0.05	ND<0.004	ND<0.004
SB-8-6	11/24/2008	6	14	0.024	0.12	0.45	0.087	0.092	ND<0.005	ND<0.005	ND<0.005	0.090	ND<0.004	ND<0.004
SB-8-11.5	11/24/2008	11.5	1.4	ND<0.005	ND<0.005	0.034	0.049	1.4	ND<0.050	ND<0.050	0.061	2.7	ND<0.040	ND<0.040
SB-9														
SB-9-10	11/24/2008	10	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.05	ND<0.004	ND<0.004
SB-10														
SB-10-6	11/24/2008	6	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.05	ND<0.004	ND<0.004
SB-11														
SB-11-3.5	11/24/2008	3.5	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.05	ND<0.004	ND<0.004
SB-11-7.5	11/24/2008	7.5	200	ND<0.10	0.96	1.4	3.9	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.05	ND<0.004	ND<0.004
SB-11-15.5	11/24/2008	15.5	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	0.023	ND<0.005	ND<0.005	ND<0.005	ND<0.05	ND<0.004	ND<0.004
SB-12														
SB-12-3.5	11/25/2008	3.5	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	0.0083	ND<0.005	ND<0.005	ND<0.005	ND<0.05	ND<0.004	ND<0.004
SB-12-6.5	11/25/2008	6.5	4.2	0.023	0.034	0.036	0.0088	0.26	ND<0.010	ND<0.010	ND<0.010	0.17	ND<0.0080	ND<0.0080
SB-12-11.5	11/25/2008	11.5	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.050	ND<0.050	ND<0.050	ND<0.050	2.1	ND<0.040	ND<0.040
SB-13														
SB-13-7.5	11/25/2008	7.5	26	0.010	0.20	0.18	0.64	ND<0.010	ND<0.010	ND<0.010	ND<0.010	0.12	ND<0.0080	ND<0.0080
SB-14														
SB-14-3.5	11/24/2008	3.5	3.0	ND<0.050	0.014	ND<0.050	ND<0.050	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.05	ND<0.004	ND<0.004
SB-14-7.5	11/24/2008	7.5	120	ND<0.050	0.75	2.3	6.2	ND<0.10	ND<0.10	ND<0.10	ND<0.10	ND<1.0	ND<0.080	ND<0.080
SB-14-11.5	11/24/2008	11.5	ND<1.0	ND<0.050	ND<0.050	ND<0.050	ND<0.050	0.15	ND<0.005	ND<0.005	ND<0.005	ND<0.05	ND<0.004	ND<0.004

Table 1, 6211 San Pablo Avenue, Oakland, CA - AEI Project # 280346

Soil Analytical Data

Sample ID	Date	Depth (feet bgs)	TPHg mg/kg	Benzene mg/kg	Toluene mg/kg	Ethylbenzene mg/kg	Xylenes mg/kg	MTBE mg/kg	DIPE mg/kg	ETBE mg/kg	TAME mg/kg	TBA mg/kg	1,2-DCA mg/kg	EDB mg/kg
DDP-1														
DDP-1-5	11/25/2008	5	4.5	0.096	0.044	0.017	0.021	7.9	ND<0.25	ND<0.25	0.28	12	ND<0.20	ND<0.20
DDP-1-8	11/25/2008	8	96	ND<0.050	0.93	0.19	0.13	0.32	ND<0.020	ND<0.020	ND<0.020	1.3	ND<0.016	ND<0.016
DDP-1-11.5	11/25/2008	11.5	11	0.0077	0.099	0.016	0.057	1.0	ND<0.033	ND<0.033	0.17	4.4	ND<0.027	ND<0.027
DDP-1-19.5	11/25/2008	19.5	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	4.0	ND<0.20	ND<0.20	0.26	7.1	ND<0.16	ND<0.16
DDP-2														
DDP-2-5	11/26/2008	5	5.8	0.010	0.054	0.0063	0.057	3.4	ND<0.10	ND<0.10	0.23	2.3	ND<0.080	ND<0.080
DDP-2-7.5	11/26/2008	7.5	850	0.78	4.0	6.8	63	7.9	ND<0.20	ND<0.20	0.58	3.4	ND<0.16	ND<0.16
DDP-2-10.5	11/26/2008	10.5	14	0.045	0.13	0.040	0.14	8.0	ND<0.50	ND<0.50	ND<0.50	12	ND<0.40	ND<0.40
DDP-2-20.5	11/26/2008	20.5	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	0.86	ND<0.050	ND<0.050	ND<0.050	ND<0.50	ND<0.040	ND<0.040
DDP-2-26.5	11/26/2008	26.5	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	0.14	ND<0.005	ND<0.005	ND<0.005	ND<0.05	ND<0.004	ND<0.004
DDP-2-35.5	11/26/2008	35.5	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	0.039	ND<0.005	ND<0.005	ND<0.005	ND<0.05	ND<0.004	ND<0.004
DDP-3														
DDP-3-5	11/26/2008	5	170	ND<0.10	1.6	0.81	20	6.3	ND<0.25	ND<0.25	0.38	6.6	ND<0.20	ND<0.20
DDP-3-7.5	11/26/2008	7.5	930	1.7	23	11	73	11	ND<0.50	ND<0.50	1.1	ND<5.0	ND<0.40	ND<0.40
DDP-3-12.5	11/26/2008	12.5	ND<1.0	ND<0.005	0.0075	ND<0.005	0.013	0.78	ND<0.10	ND<0.10	ND<0.10	12	ND<0.080	ND<0.080
DDP-3-20.5	11/26/2008	20.5	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	0.18	ND<0.010	ND<0.010	ND<0.010	ND<0.10	ND<0.0080	ND<0.0080
DDP-3-26	11/26/2008	26	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	0.022	ND<0.005	ND<0.005	ND<0.005	ND<0.05	ND<0.004	ND<0.004
DDP-3-35.5	11/26/2008	35.5	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	0.020	ND<0.005	ND<0.005	ND<0.005	ND<0.05	ND<0.004	ND<0.004
DDP-4														
DDP-4-3.5	11/26/2008	3.5	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	0.055	ND<0.005	ND<0.005	ND<0.005	ND<0.05	ND<0.004	ND<0.004
DDP-4-7.5	11/26/2008	7.5	180	0.040	0.84	0.26	2.5	0.11	ND<0.020	ND<0.020	ND<0.020	ND<0.20	ND<0.016	ND<0.016
DDP-4-10.5	11/26/2008	10.5	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	0.0093	ND<0.005	ND<0.005	ND<0.005	ND<0.05	ND<0.004	ND<0.004
DDP-4-20.5	11/26/2008	20.5	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.05	ND<0.004	ND<0.004
DDP-4-29.5	11/26/2008	29.5	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.05	ND<0.004	ND<0.004
MW-7														
MW-7-8	2/11/2010	8	220	ND<0.10	1.6	2.6	1.9	ND<1.0*	NA	NA	NA	NA	NA	NA
MW-7-14.5	2/11/2010	14.5	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	0.19*	NA	NA	NA	NA	NA	NA
MW-7-19.5	2/11/2010	19.5	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	0.59*	NA	NA	NA	NA	NA	NA
MW-7-29.5	2/11/2010	29.5	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.05	ND<0.004	ND<0.004
MW-8														
MW-8-4.5	2/11/2010	4.5	19	ND<0.005	0.19	0.066	0.033	ND<0.05*	NA	NA	NA	NA	NA	NA
MW-8-9.5	2/11/2010	9.5	1.8	ND<0.005	0.010	0.022	0.097	ND<0.05*	NA	NA	NA	NA	NA	NA
MW-8-14.5	2/11/2010	14.5	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	0.40*	NA	NA	NA	NA	NA	NA
MW-8-19.5	2/11/2010	19.5	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.05	ND<0.004	ND<0.004
MW-9														
MW-9-5.5	2/12/2010	5.5	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.05*	NA	NA	NA	NA	NA	NA
MW-9-9.5	2/12/2010	9.5	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.05*	NA	NA	NA	NA	NA	NA
MW-9-14.5	2/12/2010	14.5	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	0.027	ND<0.005	ND<0.005	ND<0.005	ND<0.05	ND<0.004	ND<0.004
MW-10														
MW-10-6	2/12/2010	6	64	ND<0.050	0.62	ND<0.050	ND<0.050	ND<0.50*	NA	NA	NA	NA	NA	NA
MW-10-9.5	2/12/2010	9.5	1.9	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.05*	NA	NA	NA	NA	NA	NA
MW-10-14.5	2/12/2010	14.5	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.05*	NA	NA	NA	NA	NA	NA

Table 1, 6211 San Pablo Avenue, Oakland, CA - AEI Project # 280346

Soil Analytical Data

Sample ID	Date	Depth (feet bgs)	TPHg mg/kg	Benzene mg/kg	Toluene mg/kg	Ethylbenzene mg/kg	Xylenes mg/kg	MTBE mg/kg	DIPE mg/kg	ETBE mg/kg	TAME mg/kg	TBA mg/kg	1,2-DCA mg/kg	EDB mg/kg
-----------	------	---------------------	---------------	------------------	------------------	-----------------------	------------------	---------------	---------------	---------------	---------------	--------------	------------------	--------------

Notes:

TPHg = total petroleum hydrocarbons as gasoline using EPA Method 8015

Benzene, toluene, ethylbenzene, and xylenes using EPA Method 8021B

MTBE = methyl-tertiary butyl ether using EPA Method 8260B

* = MTBE = methyl-tertiary butyl ether using EPA Method 8021B

TBA = tert-butyl alcohol using EPA Method 8260B

TAME = tert-amyl methyl ether using EPA Method 8260B

DIPE = diisopropyl ether using EPA Method 8260B

ETBE = ethyl tert-butyl ether using EPA Method 8260B

1,2-DCA = 1,2-dichloroethane using EPA Method 8260B

EDB = Ethylene dibromide using EPA Method 8260B

mg/kg = milligrams per kilogram

ND = non detect at respective reporting limit

NA = not analyzed

Soil sample proposed to be over-excavated during excavation activities

APPENDIX B

HISTORICAL GROUNDWATER ANALYTICAL DATA

Table 3, 6211 San Pablo Avenue, Oakland, CA - AEI Project # 280346
Groundwater Analytical Data - Soil Borings

Sample ID	Date	TPHg ug/L	Benzene ug/L	Toluene ug/L	Ethylbenzene ug/L	Xylenes ug/L	MTBE ug/L	DIPE ug/L	ETBE ug/L	TAME ug/L	TBA ug/L	1,2-DCA ug/L	EDB ug/L
DP-4	11/24/2008	1,700	17	5.6	22	5.3	9,700	ND<250	ND<250	800	10,000	ND<250	ND<250
SB-5	11/25/2008	430	ND<1.7	ND<1.7	ND<1.7	ND<1.7	4,600	ND<100	ND<100	460	ND<400	ND<100	ND<100
SB-7	11/25/2008	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.0	ND<0.5	ND<0.5
SB-8	11/24/2008	47,000	530	200	3,100	4,100	1,900	ND<170	ND<170	ND<170	30,000	ND<170	ND<170
SB-9	11/24/2008	1,300	8.6	3.9	55	200	180	ND<5.0	ND<5.0	12	25	ND<5.0	ND<5.0
SB-10	11/24/2008	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	18	ND<0.5	ND<0.5	ND<0.5	2.5	ND<0.5	ND<0.5
SB-11	11/24/2008	1,200	5.6	0.59	38	220	160	ND<5.0	ND<5.0	5.4	37	ND<5.0	ND<5.0
SB-12	11/25/2008	390	1.3	0.93	18	56	3,900	ND<120	ND<120	ND<120	29,000	ND<120	ND<120
SB-13	11/25/2008	1,100	ND<5.0	ND<5.0	ND<5.0	14	18,000	ND<250	ND<250	720	5,400	ND<250	ND<250
SB-14	11/24/2008	1,300	20	6.9	61	170	1,900	ND<50	ND<50	52	350	ND<50	ND<50
DDP-1	11/25/2008	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	47	ND<1.0	ND<1.0	2.8	100	ND<1.0	ND<1.0
DDP-1D	11/25/2008	130	5.7	6.6	5.4	21	21	ND<2.5	ND<2.5	2.7	500	ND<2.5	ND<2.5
MW-7(D)	2/11/2010	ND<50	ND<0.5	ND<0.5	1.2	2.3	ND<25	ND<25	ND<25	ND<25	3,000	ND<25	ND<25
MW-8(D)	2/11/2010	54	ND<0.5	ND<0.5	1.1	3.0	570	ND<12	ND<12	14	ND<50	ND<12	ND<12

Notes:

TPHg = total petroleum hydrocarbons as gasoline using EPA Method 8015

Benzene, toluene, ethylbenzene, and xylenes using EPA Method 8021B

MTBE = methyl-tertiary butyl ether using EPA Method 8260B

TBA = tert-butyl alcohol using EPA Method 8260B

TAME = tert-amyl methyl ether using EPA Method 8260B

DIPE = diisopropyl ether using EPA Method 8260B

ETBE = ethyl tert-butyl ether using EPA Method 8260B

1,2-DCA = 1,2-dichloroethane using EPA Method 8260B

EDB = Ethylene dibromide using EPA Method 8260B

µg/L= micrograms per liter

ND = non detect at respective reporting limit

TABLE 3
GROUNDWATER ANALYTICAL DATA
Alaska Gas Service Station
6211 San Pablo Avenue, Oakland, CA

Well ID	Date Collected	GRO	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	DIPE	ETBE	TAME	TBA	1,2-DCA	EDB
		µg/L											
MW-1	11/07/99	5,700	170	59	22	85	20,000	--	--	--	--	--	--
	03/08/01	17,000	480	150	52	170	38,000	--	--	--	--	--	--
	11/17/01	10,000	230	210	60	250	22,000	--	--	--	--	--	--
	03/31/02	12,000	61	ND	ND	29	35,000	--	--	--	--	--	--
	11/09/03	19,000	ND	ND	ND	ND	50,000	--	--	--	--	--	--
	12/09/03	22,000	150	ND	ND	ND	66,000	--	--	--	--	--	--
	<i>Well Destroyed May 17, 2011</i>												
MW-1R	11/17/01	--	--	--	--	--	--	--	--	--	--	--	--
	03/31/02	--	--	--	--	--	--	--	--	--	--	--	--
	09/09/03	--	--	--	--	--	--	--	--	--	--	--	--
	12/09/03	--	--	--	--	--	--	--	--	--	--	--	--
	02/19/04	1,800	95	130	44	200	220	--	--	--	--	--	--
	05/24/04	210	12	10	5.4	23	79	ND	ND	2.1	37	ND	ND
	09/03/04	300	1.5	7.1	9.4	42	81	ND	ND	1.6	ND	ND	ND
	11/02/04	290	14	30	9.5	45	45	ND	ND	1.1	ND	--	--
	02/17/05	530	3.4	ND	ND	2.6	1,000	ND	ND	100	ND	--	--
	05/24/05	--	--	--	--	--	--	ND	ND	610	ND	ND	ND
	08/15/05	2,500	64	240	61	210	2,300	ND	ND	210	ND	ND	ND
	11/17/05	2,500	66	290	75	290	1,300	ND	ND	110	1,600	ND	ND
	02/08/06	3,300	100	310	86	470	1,400	ND	ND	130	1,400	ND	ND
	05/05/06	3,400	170	350	97	550	1,100	ND	ND	100	2,400	ND	ND
	08/18/06	5,800	190	1,000	230	1,000	490	ND	ND	36	2,900	ND	ND
	12/01/06	410	1.7	6.3	1.2	47	100	ND	ND	4.7	100	ND	ND
	02/23/07	ND	ND	0.51	ND	1.4	3	ND	ND	ND	ND	ND	ND
	05/10/07	ND	ND	ND	ND	2.0	5.9	ND	ND	ND	ND	ND	ND
	08/16/07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/08/07	1,300	11	82	54	270	1.4	ND	ND	ND	ND	ND	ND
	02/14/08	800	7.6	31	23	150	1.7	ND	ND	ND	ND	ND	ND
	05/15/08	3,200	20	200	110	550	4.2	<0.50	<0.50	1.0	<20	<0.50	<0.50
	09/10/08	1,000	6.5	22	19	120	2.3	<0.50	<0.50	<0.50	4.0	<0.50	<0.50
	11/18/08	430	4.1	18	12	100	1.8	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50
	02/17/09	220	3.6	6.1	2.0	41	1.3	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50
	05/15/09	890	6.0	17	27	110	1.8	<0.50	<0.50	<0.50	3.9	<0.50	<0.50
	08/13/09	2,000	17	23	73	350	2.1	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50
02/23/10	3,200	31	77	120	810	3.9	<1.7	<1.7	<1.7	<6.7	<1.7	<1.7	
08/12/10	1,300	13	16	40	280	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	
02/17/11	210	4.0	1.7	13	21	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<0.5	
08/17/11	670	6.1	13	26	200	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<0.5	

TABLE 3
GROUNDWATER ANALYTICAL DATA
Alaska Gas Service Station
6211 San Pablo Avenue, Oakland, CA

Well ID	Date Collected	GRO	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	DIPE	ETBE	TAME	TBA	1,2-DCA	EDB
		µg/L											
MW-1R Cont.	03/28/14	1,200	3.7	11	34	299	1.2	--	--	<2.0[1]	<20	--	--
	08/14/14	560	1.9	0.83	3.9	20	0.79	--	--	<1.0	<10	--	--
	01/28/15	1,900	6.4	9.3	36	285	1.0	--	--	<2.0[1]	<20[1]	--	--
	07/09/15	360	1.4	0.51	1.9	6.0	<0.50	--	--	<1.0	<10	--	--
MW-2	11/07/99	6,000	1,300	92	50	400	6,800	--	--	--	--	--	--
	03/08/01	41,000	8,100	870	2,000	4,100	26,000	--	--	--	--	--	--
	11/17/01	18,000	3,700	180	610	640	16,000	--	--	--	--	--	--
	03/31/02	32,000	6,500	270	1,700	2,700	19,000	--	--	--	--	--	--
	09/09/03	24,000	4,600	ND	1,200	440	19,000	--	--	--	--	--	--
	12/09/03	31,000	6,200	170	1,600	2,700	19,000	--	--	--	--	--	--
	02/19/04	21,000	4,600	120	970	2,000	15,000	--	--	--	--	--	--
	05/24/04	1,200	120	3	63	67	1,900	ND	ND	ND	ND	ND	ND
	09/03/04	2,300	120	ND	51	70	1,700	ND	ND	26	ND	ND	ND
	11/02/04	530	35	ND	17	30	520	ND	ND	28	100	--	--
	02/17/05	18,000	2,100	31	800	680	20,000	ND	ND	1,000	ND	--	--
	05/24/05	22,000	3,200	52	1,400	1,700	16,000	ND	ND	--	--	ND	ND
	08/15/05	2,000	66	ND	46	47	2,400	ND	ND	95	880	ND	ND
	11/17/05	760	19	0.64	15	13	1,000	ND	ND	26	810	ND	ND
	02/08/06	10,000	1,500	8	660	380	4,300	ND	ND	120	2,800	ND	ND
	05/05/06	15,000	1,800	ND	1,200	1,200	5,800	ND	ND	150	4,300	ND	ND
	08/18/06	360	11	ND	13	9.7	160	ND	ND	4.6	600	ND	ND
	12/01/06	11,000	1,000	ND	990	910	2,100	ND	ND	87	2,000	ND	ND
	02/23/07	3,200	210	ND	270	85	900	ND	ND	33	1,400	ND	ND
	05/10/07	590	31	ND	39	22	200	ND	ND	5.9	250	ND	ND
	08/16/07	650	49	ND	71	49	100	ND	ND	3.5	82	ND	ND
	11/08/07	110	1.6	ND	1.9	1.6	23	ND	ND	0.64	48	ND	ND
	02/14/08	350	24	ND	12	5.9	190	ND	ND	7.7	320	ND	ND
	05/15/08	81	0.59	<0.50	0.71	0.66	38	<0.50	<0.50	1.4	54	<0.50	<0.50
	09/10/08	150	6.4	<0.50	8.4	5.1	14	<0.50	<0.50	0.55	38	<0.50	<0.50
	11/18/08	420	25	0.70	46	47	29	<0.50	<0.50	1.3	60	<0.50	<0.50
	02/17/09	460	23	0.96	51	37	26	<0.50	<0.50	1.4	61	<0.50	<0.50
	05/15/09	220	13	0.93	26	13	21	<0.50	<0.50	0.87	60	<0.50	<0.50
	08/13/09	110	7.0	<0.50	13	5.0	7.7	<0.50	<0.50	<0.50	26	<0.50	<0.50
	02/23/10	170	9.4	0.65	27	5.6	14	<0.50	<0.50	<0.50	36	<0.50	<0.50
	08/12/10	<50	1.1	<0.50	1.8	0.63	3.7	<0.50	<0.50	<0.50	6.3	<0.50	<0.50
	02/17/11	<50	<0.5	<0.5	<0.5	<0.5	8.3	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50
08/17/11	<50	<0.5	<0.5	<0.5	<0.5	150	<2.5	<2.5	<2.5	<10	<2.5	<2.5	
03/28/14	<50	<0.50	<0.50	<0.50	<0.50	0.51	--	--	<1.0	<10	--	--	
08/14/14	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	<1.0	<10	--	--	
01/28/15	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	<1.0	<10	--	--	
07/09/15	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	<1.0	<10	--	--	

TABLE 3
GROUNDWATER ANALYTICAL DATA
Alaska Gas Service Station
6211 San Pablo Avenue, Oakland, CA

Well ID	Date Collected	GRO	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	DIPE	ETBE	TAME	TBA	1,2-DCA	EDB	
		µg/L												
MW-3	11/07/99	43,000	860	70	ND	65	120,000	--	--	--	--	--	--	
	03/08/01	90,000	1,800	ND	ND	ND	210,000	--	--	--	--	--	--	
	11/17/01	110,000	1,600	ND	ND	ND	300,000	--	--	--	--	--	--	
	03/31/02	130,000	2,400	670	300	390	300,000	--	--	--	--	--	--	
	09/09/03	190,000	1,600	ND	ND	ND	420,000	--	--	--	--	--	--	
	12/09/03	170,000	2,000	ND	ND	ND	4,500,000	--	--	--	--	--	--	
	02/19/04	86,000	1,800	630	ND	ND	160,000	--	--	--	--	--	--	
	05/24/04	120,000	2,200	ND	180	220	400,000	ND	ND	15,000	ND	ND	ND	ND
	09/03/04	180,000	2,000	ND	ND	ND	510,000	ND	ND	14,000	ND	ND	ND	ND
	11/02/04	150,000	1,700	ND	ND	ND	350,000	ND	ND	31,000	140,000	--	--	--
	02/17/05	130,000	2,100	420	210	730	290,000	ND	ND	11,000	ND	--	--	--
	05/24/05	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/15/05	110,000	1,500	ND	ND	ND	260,000	ND	ND	21,000	25,000	ND	ND	ND
	11/17/05	200,000	2,400	ND	ND	ND	580,000	ND	ND	24,000	49,000	ND	ND	ND
	02/08/06	470,000	3,800	660	ND	790	490,000	ND	ND	26,000	49,000	ND	ND	ND
	05/05/06	400,000	3,300	ND	ND	ND	590,000	ND	ND	21,000	86,000	ND	ND	ND
	08/18/06	310,000	1,800	ND	ND	ND	440,000	ND	ND	23,000	79,000	ND	ND	ND
	12/01/06	270,000	ND	ND	ND	ND	290,000	ND	ND	11,000	90,000	ND	ND	ND
	02/23/07	220,000	ND	ND	ND	ND	260,000	ND	ND	15,000	33,000	ND	ND	ND
	05/10/07	140,000	ND	ND	ND	ND	180,000	ND	ND	7,100	80,000	ND	ND	ND
	08/16/07	69,000	ND	ND	ND	ND	85,000	ND	ND	3,400	180,000	ND	ND	ND
	11/08/07	34,000	ND	ND	ND	ND	38,000	ND	ND	1,400	140,000	ND	ND	ND
	02/14/08	41,000	ND	ND	ND	ND	44,000	ND	ND	1,900	110,000	ND	ND	ND
	05/15/08	43,000	<100	<100	<100	<100	62,000	<100	<100	1,100	200,000	<100	<100	<100
	09/10/08	1,600	14	8.6	7.7	23	21,000	<1,000	<1,000	<1,000	290,000	<1,000	<1,000	<1,000
	11/18/08	4,500	86	150	100	590	29,000	<1,000	<1,000	<1,000	290,000	<1,000	<1,000	<1,000
	02/17/09	2,500	45	53	35	160	16,000	<1,000	<1,000	<1,000	190,000	<1,000	<1,000	<1,000
	05/15/09	2,000	15	21	13	35	13,000	<1,000	<1,000	<1,000	260,000	<1,000	<1,000	<1,000
	08/13/09	1,300	10	11	4.1	14	7,900	<1,200	<1,200	<1,200	250,000	<1,200	<1,200	<1,200
	02/23/10	1,700	22	21	11	38	4,700	<1,700	<1,700	<1,700	260,000	<1,700	<1,700	<1,700
08/12/10	1,600	5.8	16	5.8	16	4,200	<1,200	<1,200	<1,200	250,000	<1,200	<1,200	<1,200	
02/17/11	290	1.0	5.5	6.5	8.1	73	<50	<50	<50	8,500	<50	<50	<50	
<i>Well Destroyed May 17, 2011</i>														
MW-3R	07/14/11	130	3.2	0.97	<0.5	1.2	1,200	<250	<250	<250	35,000	<250	<250	
	08/17/11	64	<0.5	<0.5	<0.5	<0.5	260	<50	<50	<50	3,800	<50	<50	
	03/28/14	<200[1]	<1.0[1]	<1.0[1]	<1.0[1]	<1.0[1]	28	--	--	5.3	1,400	--	--	
	08/14/14	<800[1]	<4.0[1]	<4.0[1]	<4.0[1]	<4.0[1]	5.2	--	--	<8.0[1]	5,200	--	--	
	01/28/15	140	<0.50	<0.50	<0.50	<0.50	23	--	--	4.1	6,500	--	--	
	07/09/15	<200[1]	<1.0[1]	<1.0[1]	<1.0[1]	<1.0[1]	2.5	--	--	<2.0[1]	2,100	--	--	

TABLE 3
GROUNDWATER ANALYTICAL DATA
Alaska Gas Service Station
6211 San Pablo Avenue, Oakland, CA

Well ID	Date Collected	GRO	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	DIPE	ETBE	TAME	TBA	1,2-DCA	EDB
		µg/L											
MW-4	11/17/01	64,000	960	1,400	360	1,600	140,000	--	--	--	--	--	--
	03/31/02	78,000	4,400	4,700	690	2,700	150,000	--	--	--	--	--	--
	09/06/07	49,000	710	840	ND	10,000	3,600	ND	ND	510	32,000	ND	ND
	11/08/07	64,000	1,300	2,600	1,000	8,500	1,500	ND	ND	360	14,000	ND	ND
	02/14/08	60,000	390	460	230	2,000	52,000	ND	ND	2,000	58,000	ND	ND
	05/15/08	22,000	670	130	740	2,700	3,300	<5.0	<5.0	340	35,000	<5.0	<5.0
	09/10/08	16,000	500	150	730	2,500	2,000	<250	<250	<250	65,000	<250	<250
	11/18/08	24,000	820	190	1,200	5,000	1,400	<50	<50	260	9,300	<50	<50
	02/17/09	17,000	350	170	620	2,600	360	<10	<10	82	2,100	<10	<10
	05/15/09	32,000	300	190	880	3,200	470	<10	<10	95	380	<10	<10
	08/13/09	29,000	320	250	980	3,400	350	<50	<50	61	10,000	<50	<50
	02/23/10	15,000	250	77	580	2,200	180	<5.0	<5.0	41	400	<5.0	<5.0
	08/12/10	17,000	200	47	580	1,400	150	<10	<10	28	1,800	<10	<10
	02/17/11	7,600	190	15	260	440	130	<5.0	<5.0	29	790	<5.0	<5.0
<i>Well Destroyed May 17, 2011</i>													
MW-4R	07/14/11	1,000	210	3.6	<2.5	32	7,800	<200	<200	390	41,000	<200	<200
	08/17/11	840	9.1	<5.0	<5.0	<5.0	4,500	<250	<250	310	26,000	<250	<250
	03/28/14	<50	<0.50	<0.50	<0.50	<0.50	3.6	--	--	<1.0	110	--	--
	08/14/14	<50	<0.50	<0.50	<0.50	<0.50	4.7	--	--	<1.0	<10	--	--
	01/28/15	<100[2]	<0.50	<0.50	<0.50	<0.50	8.8	--	--	1.4	190	--	--
	07/09/15	<50	<0.50	<0.50	<0.50	<0.50	3.9	--	--	<1.0	<10	--	--

TABLE 3
GROUNDWATER ANALYTICAL DATA
Alaska Gas Service Station
6211 San Pablo Avenue, Oakland, CA

Well ID	Date Collected	GRO	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	DIPE	ETBE	TAME	TBA	1,2-DCA	EDB
		µg/L											
MW-5	11/17/01	210	15	12	11	23	4.8	--	--	--	--	--	--
	03/31/02	120	11	7.4	6.1	16	4.2	--	--	--	--	--	--
	09/09/03	ND	1.5	ND	ND	ND	1.7	--	--	--	--	--	--
	12/09/03	130	32	ND	2.6	0.57	5	--	--	--	--	--	--
	02/19/04	ND	ND	ND	ND	ND	1.5	--	--	--	--	--	--
	05/24/04	ND	ND	ND	ND	ND	0.55	ND	ND	ND	ND	ND	ND
	09/03/04	100	6.4	ND	ND	0.79	4.2	ND	ND	ND	ND	ND	ND
	11/02/04	ND	2.6	ND	1.7	0.87	1	ND	ND	ND	ND	ND	ND
	02/17/05	51	0.74	ND	0.94	ND	1.5	ND	ND	ND	ND	ND	ND
	05/24/05	ND	ND	ND	ND	ND	1	ND	ND	ND	ND	ND	ND
	08/15/05	ND	ND	ND	ND	ND	0.88	ND	ND	ND	ND	ND	ND
	11/17/05	71	0.81	ND	1.1	ND	1.4	ND	ND	ND	ND	ND	ND
	02/08/06	50	ND	ND	ND	ND	1	ND	ND	ND	ND	ND	ND
	05/05/06	ND	ND	ND	ND	ND	0.93	ND	ND	ND	ND	ND	ND
	08/18/06	ND	ND	ND	ND	ND	1	ND	ND	ND	ND	ND	ND
	12/01/06	ND	0.69	ND	ND	0.52	0.97	ND	ND	ND	ND	ND	ND
	02/23/07	73	ND	ND	ND	ND	1.7	ND	ND	ND	ND	ND	ND
	05/10/07	ND	ND	ND	ND	ND	1.5	ND	ND	ND	ND	ND	ND
	08/16/07	ND	ND	ND	ND	ND	1.3	ND	ND	ND	ND	ND	ND
	11/08/07	ND	ND	ND	ND	ND	1.5	ND	ND	ND	ND	ND	ND
	02/14/08	ND	ND	ND	ND	ND	1.3	ND	ND	ND	ND	ND	ND
	05/15/08	<50	<0.50	<0.50	<0.50	<0.50	1.7	<0.50	<0.50	<0.50	<20	<0.50	<0.50
	09/10/08	480	17	1.8	2.7	0.59	12	<0.50	<0.50	<0.50	4.4	<0.50	<0.50
	11/18/08	130	2.3	1.6	<0.50	<0.50	7.3	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50
	02/17/09	170	<0.50	2.7	<0.50	<0.50	4.2	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50
	05/15/09	<50	<0.50	<0.50	<0.50	<0.50	7.6	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50
	08/13/09	380	19	2.1	3.8	0.88	11	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50
	02/23/10	<50	<0.50	0.87	<0.50	<0.50	1.9	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50
	08/12/10	120	1.5	2.9	0.74	3.5	13	<0.50	<0.50	<0.50	3.0	<0.50	<0.50
	02/17/11	<50	<0.5	<0.5	<0.5	<0.5	3.7	<0.5	<0.5	<0.5	<2.0	<0.5	<0.5
	08/17/11	160	2.3	1.1	<0.5	<0.5	5.4	<0.5	<0.5	<0.5	<2.0	<0.5	<0.5
	03/28/14	77	0.52	<0.50	<0.50	<0.50	5.2	--	--	<1.0	<10	--	--
08/14/14	<50	<0.50	<0.50	<0.50	<0.50	3.7	--	--	<1.0	<10	--	--	
01/28/15	<50	<0.50	<0.50	<0.50	<0.50	16	--	--	2.8	57	--	--	
07/09/15	<50	<0.50	<0.50	<0.50	<0.50	3.0	--	--	<1.0	<10	--	--	

TABLE 3
GROUNDWATER ANALYTICAL DATA
Alaska Gas Service Station
6211 San Pablo Avenue, Oakland, CA

Well ID	Date Collected	µg/L											
		GRO	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	DIPE	ETBE	TAME	TBA	1,2-DCA	EDB
MW-6	11/17/01	3,500	160	260	95	420	1,500	--	--	--	--	--	--
	03/31/02	3,200	410	170	82	280	3,000	--	--	--	--	--	--
	09/09/03	800	49	ND	7.4	ND	1,700	--	--	--	--	--	--
	12/09/03	970	150	9.9	31	83	1,200	--	--	--	--	--	--
	02/19/04	1,900	280	58	17	160	2,700	--	--	--	--	--	--
	09/03/04	1,100	27	ND	14	27	2,200	ND	ND	85	ND	ND	ND
	11/02/04	1,800	32	ND	5	11	4,100	ND	ND	170	270	ND	ND
	02/17/05	5,600	190	34	41	110	10,000	ND	ND	780	2,000	ND	ND
	08/15/05	1,800	27	ND	6	23	3,800	ND	ND	300	3,500	ND	ND
	11/17/05	1,100	30	ND	4	9	2,400	ND	ND	190	9,500	ND	ND
	02/08/06	3,600	220	43	66	160	2,700	ND	ND	180	7,800	ND	ND
	05/05/06	1,600	130	21	37	65	1,400	ND	ND	53	3,100	ND	ND
	08/18/06	270	27	ND	3	4	240	ND	ND	11	2,400	ND	ND
	12/01/06	1,700	ND	ND	ND	ND	1,700	ND	ND	92	800	ND	ND
	02/23/07	ND	ND	ND	ND	ND	15	ND	ND	ND	ND	ND	ND
	05/10/07	ND	3.0	ND	ND	1.9	26	ND	ND	2	48	ND	ND
	08/16/07	ND	ND	ND	ND	ND	1.4	ND	ND	ND	ND	ND	ND
	11/08/07	ND	ND	ND	ND	ND	5.3	ND	ND	ND	ND	ND	ND
	02/14/08	ND	ND	ND	ND	ND	11	ND	ND	0.94	220	ND	ND
	05/15/08	<50	<0.50	<0.50	<0.50	<0.50	13	<0.50	<0.50	1.0	130	<0.50	<0.50
	09/10/08	78	1.4	0.60	0.94	1.3	71	<1.0	<1.0	6.2	160	<1.0	<1.0
	11/18/08	<50	2.4	<0.50	<0.50	0.70	72	<1.2	<1.2	7.2	180	<1.2	<1.2
	02/17/09	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50
	05/15/09	53	3.2	<0.50	<0.50	1.7	44	<1.0	<1.0	4.3	89	<1.0	<1.0
	08/13/09	74	5.9	0.57	0.97	5.0	27	<0.50	<0.50	2.2	140	<0.50	<0.50
	02/23/10	<50	0.66	<0.50	<0.50	0.57	5.7	<0.50	<0.50	<0.50	15	<0.50	<0.50
	08/12/10	92	7.5	0.94	<0.50	1.0	32	<1.0	<1.0	2.7	180	<1.0	<1.0
	02/17/11	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<0.5
	08/17/11	<50	<0.5	<0.5	<0.5	<0.5	73	<1.2	<1.2	7.7	130	<1.2	<1.2
	03/28/14	110	6.0	<0.50	2.2	1.1	14	--	--	2.0	36	--	--
	08/14/14	<50	0.56	<0.50	<0.50	<0.50	1.5	--	--	<1.0	14	--	--
	01/28/15	90	4.6	<0.50	3.0	0.88	5.5	--	--	1.0	12	--	--
	07/09/15	<50	0.52	<0.50	<0.50	<0.50	1.5	--	--	<1.0	<10	--	--

TABLE 3
GROUNDWATER ANALYTICAL DATA
Alaska Gas Service Station
6211 San Pablo Avenue, Oakland, CA

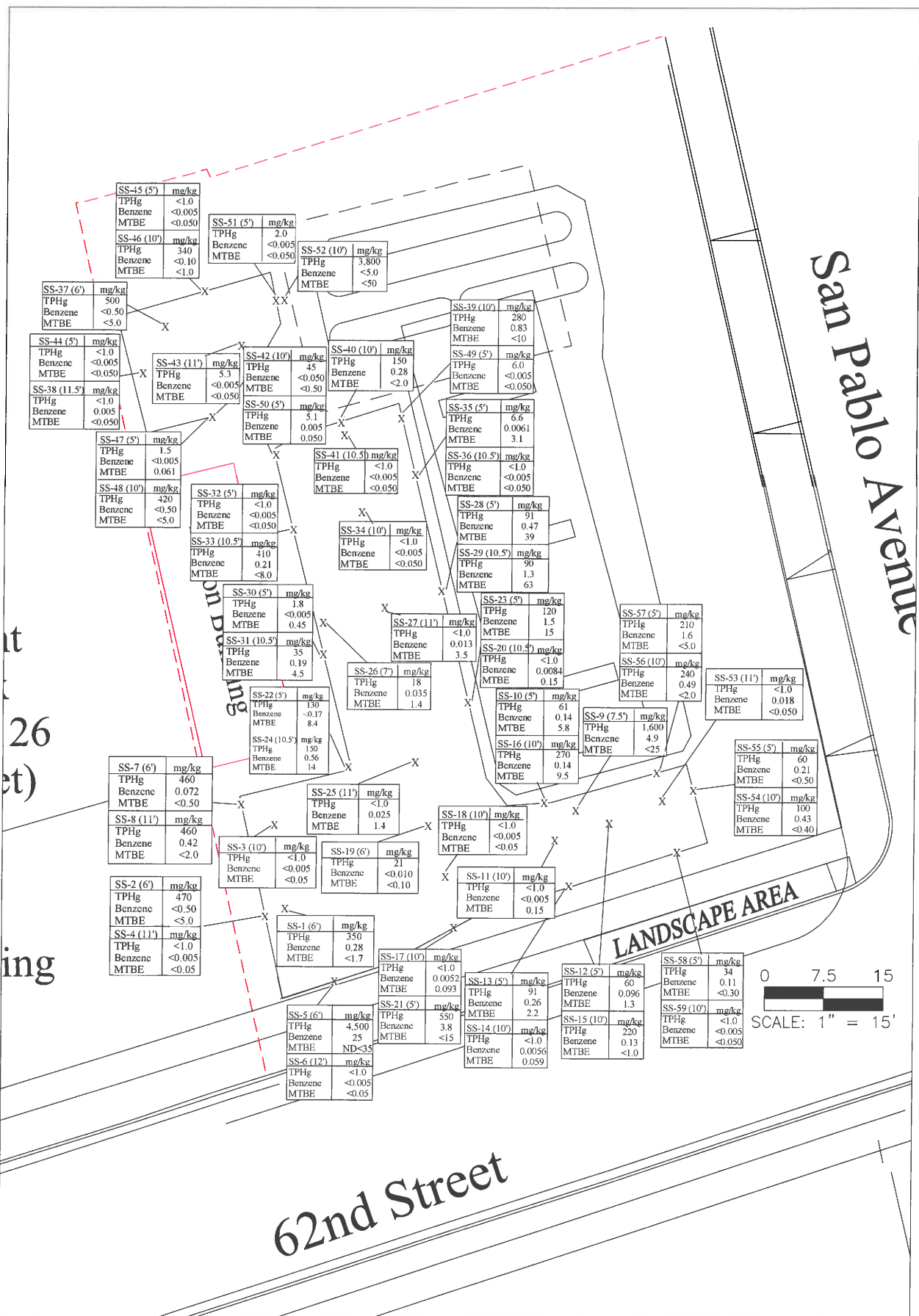
Well ID	Date Collected	GRO	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	DIPE	ETBE	TAME	TBA	1,2-DCA	EDB
		µg/L											
MW-7	02/23/10	29,000	410	380	2,100	6,100	410	<10	<10	19	1,500	<10	<10
	08/12/10	2,000	26	17	140	250	2,400	<50	<50	75	9,600	<50	<50
	02/17/11	2,400	35	17	160	190	670	<10	<10	24	1,300	<10	<10
	08/17/11	320	4.3	4.0	5.7	11	3.0	<0.5	<0.5	<0.5	110	<0.5	<0.5
	03/28/14	--	--	--	--	--	--	--	--	--	--	--	--
	05/28/14	8,300	43	8.5	520	490	340	--	--	9.7	420	--	--
	08/14/14	8,800	25	<5.0[1]	400	460	99	--	--	<10[1]	1,200	--	--
	01/28/15	28,000	140	<40[1]	1,600	1,542	<40[1]	--	--	<80[1]	<800[1]	--	--
	07/09/15	10,000	47	6.4	410	225.5	130	--	--	7.3	830	--	--
MW-8	02/23/10	690	3.5	2.8	29	40	1,600	<100	<100	<100	24,000	<100	<100
	08/12/10	260	4.1	1.4	6.9	7.2	2,100	<170	<170	<170	25,000	<170	<170
	02/17/11	500	3.6	5.1	7.8	2.1	1,300	<100	<100	<100	25,000	<100	<100
	08/17/11	3,000	30	23	96	85	320	<100	<100	<100	19,000	<100	<100
	03/28/14	<4,000[1]	<20[1]	<20[1]	<20[1]	<20[1]	200	--	--	<40[1]	33,000	--	--
	08/14/14	<3,000[1]	<15[1]	<15[1]	<15[1]	<15[1]	160	--	--	<30[1]	20,000	--	--
	01/28/15	<2,000[1]	<10[1]	<10[1]	<10[1]	<10[1]	93	--	--	<20[1]	15,000	--	--
	07/09/15	<1,000[1]	<5.0[1]	<5.0[1]	<5.0[1]	<5.0[1]	44	--	--	<10[1]	10,000	--	--
	MW-9	02/23/10	<50	<0.50	0.70	<0.50	<0.50	260	<10	<10	<10	1,600	<10
08/12/10		<50	<0.50	1.6	<0.50	<0.50	85	<10	<10	<10	880	<10	<10
02/17/11		<50	<0.5	<0.5	<0.5	<0.5	160	<5.0	<5.0	<5.0	1,300	<5.0	<5.0
08/17/11		170	<0.5	7.0	<0.5	<0.5	10	<5.0	<5.0	<5.0	650	<5.0	<5.0
03/28/14		55	<0.50	<0.50	<0.50	<0.50	74	--	--	<1.0	15	--	--
08/14/14		64	<0.50	<0.50	<0.50	<0.50	130	--	--	3.5	<10	--	--
01/28/15		<50	<0.50	<0.50	<0.50	<0.50	62	--	--	1.0	<10	--	--
07/09/15		68	<0.50	<0.50	<0.50	<0.50	86	--	--	1.8	<10	--	--
MW-10		02/23/10	1,300	<0.50	11	3.1	2.6	2.8	<0.50	<0.50	<0.50	<2.0	<0.50
	08/12/10	61	<0.50	0.72	<0.50	<0.50	39	<0.50	<0.50	1.8	<2.0	<0.50	<0.50
	02/17/11	150	<0.5	1.6	<0.5	<0.5	6.9	<0.5	<0.5	<0.5	<2.0	<0.5	<0.5
	08/17/11	<50	<0.5	<0.5	<0.5	<0.5	6.9	<0.5	<0.5	<0.5	<2.0	<0.5	<0.5
	03/28/14	95	<0.50	<0.50	<0.50	<0.50	24	--	--	<1.0	<10	--	--
	08/14/14	<50	<0.50	<0.50	<0.50	<0.50	21	--	--	<1.0	<10	--	--
	01/28/15	<50	<0.50	<0.50	<0.50	<0.50	23	--	--	<1.0	<10	--	--
	07/09/15	<50	<0.50	<0.50	<0.50	<0.50	17	--	--	<1.0	<10	--	--

TABLE 3
GROUNDWATER ANALYTICAL DATA
Alaska Gas Service Station
6211 San Pablo Avenue, Oakland, CA

Well ID	Date Collected	GRO	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	DIPE	ETBE	TAME	TBA	1,2-DCA	EDB
µg/L													
EX-1	02/19/04	120,000	9,500	4,300	840	3,900	150,000	--	--	--	--	--	--
	02/14/08	84,000	2,300	4,900	1,800	14,000	3,900	ND	ND	ND	ND	ND	ND
	05/15/08	24,000	2,100	750	640	2,100	1,800	<0.50	<0.50	610	10,000	<0.50	<0.50
	09/10/08	9,200	1,000	160	300	1,000	780	<100	<100	380	11,000	<100	<100
	11/18/08	8,900	1,400	290	360	1,300	840	<100	<100	180	22,000	<100	<100
	02/17/09	70,000	2,700	3,600	1,900	13,000	1,400	<25	<25	230	20,000	<25	<25
	05/15/09	18,000	1,400	250	530	1,700	640	<25	<25	480	1,500	<25	<25
	08/13/09	10,000	1,100	150	410	940	520	<25	<25	200	5,500	<25	<25
	02/23/10	39,000	1,300	1,100	1,100	7,700	880	<25	<25	120	5,200	<25	<25
	08/12/10	12,000	1,000	160	470	1,200	660	<17	<17	250	670	<17	<17
	02/17/11	33,000	1,700	600	1,100	6,500	720	<12	<12	160	1,000	<12	<12
<i>Well Destroyed May 17, 2011</i>													
Notes:													
µg/L = Micrograms per liter				DIPE= Di-Isopropyl Ether				Analytical Methods:					
GRO = Gasoline Range Organics (C4-C13)				TBA = Tertiary Butyl Alcohol				GRO by EPA Method SW8015B/SW8260B					
MTBE = Methyl Tertiary Butyl Ether				1,2-DCA= 1,2-Dichloroethane				All other analytes by EPA Method SW8260B					
TAME= Tertiary Amyl Methyl Ether				EDB = Ethylene dibromide									
ETBE= Ethyl Tertiary Butyl Ether													
1 = Reporting limits were increased due to high concentrations of target analytes.													
2 = Reporting limits were increased due to sample foaming.													
Information prior to February 2014, taken from the AEI Consultants, <i>Remedial Action Report / Groundwater Monitoring Report - 2nd Semester 2011</i> , dated October 6, 2011.													

APPENDIX C

**FIGURE FROM OCTOBER 2011 AEI CONSULTANTS
REPORT ILLUSTRATING SOIL SAMPLING LOCATIONS
AND SUMMARIZING ANALYTICAL RESULTS FOR
THESE SAMPLES**



APPENDIX D

**HISTORICAL DEPTH TO GROUNDWATER AND
GROUNDWATER ELEVATION DATA**

TABLE 2
GROUNDWATER ELEVATION DATA
Alaska Gas Service Station
6211 San Pablo Avenue, Oakland, CA

Well ID	Date of Measurement	Well Casing Elevation (feet-MSL)	Depth to Groundwater (feet bgs)	Product Thickness (feet)	Groundwater Elevation* (feet-MSL)
MW-1	11/07/99	34.70	8.53		26.17
	03/08/01		6.32		28.38
	11/17/01		8.09		26.61
	03/31/02		7.18		27.52
	09/09/03		8.54		26.16
	12/09/03		7.50		27.20
<i>Well Destroyed May 17, 2011</i>					
MW-1R	02/19/04	36.67	5.45		31.22
	05/24/04		8.58		28.09
	09/03/04		9.15		27.52
	02/17/05		6.57		30.10
	08/15/05		8.55		28.12
	11/17/05		8.41		28.26
	02/08/06		6.81		29.86
	05/05/06		7.46		29.21
	08/18/06		8.58		28.09
	12/01/06		6.56		30.11
	08/16/07		9.33		27.34
	11/08/07		8.83		27.84
	02/14/08		6.89		29.78
	05/15/08		8.53		28.14
	09/10/08		9.36		27.31
	11/18/08		8.82		27.85
	02/17/09		5.67		31.00
	05/15/09		7.79		28.88
	08/13/09		9.20		27.47
	02/23/10		6.67		30.00
08/12/10	8.74		27.93		
02/17/11	6.51		30.16		
08/17/11	8.78		27.89		
03/28/14	8.18		28.49		
08/14/14	9.70		26.97		
01/28/15	8.86		27.81		
07/09/15	9.63		27.04		

TABLE 2
GROUNDWATER ELEVATION DATA
Alaska Gas Service Station
6211 San Pablo Avenue, Oakland, CA

Well ID	Date of Measurement	Well Casing Elevation (feet-MSL)	Depth to Groundwater (feet bgs)	Product Thickness (feet)	Groundwater Elevation* (feet-MSL)
MW-2	11/07/99	34.94	8.26		26.68
	03/08/01		5.89		29.05
	11/17/01		7.75		27.19
	03/31/02		6.68		28.26
	09/09/03		8.26		26.68
	12/09/03		7.20		27.74
	02/19/04		5.81		29.13
	05/24/04		7.79		27.15
	09/03/04		8.43		26.51
	11/02/04		7.65		27.29
	02/17/05		5.86		29.08
	05/26/05		6.39		28.55
	08/17/05		7.99		26.95
	11/17/05		7.88		27.06
	02/08/06		6.24		28.70
	05/05/06		6.89		28.05
	08/18/06		8.05		26.89
	12/01/06		7.58		27.36
	08/16/07		7.26		27.68
	11/08/07	7.81		27.13	
	02/14/08	5.90		29.04	
	05/15/08	36.33	7.63		28.70
	09/10/08		8.43		27.90
	11/18/08		7.83		28.50
	02/17/09		4.92		31.41
	05/15/09		6.81		29.52
	08/13/09		8.23		28.10
	02/23/10		6.06		30.27
	08/12/10		7.70		28.63
	02/17/11		6.16		30.17
	08/17/11		7.16		29.17
	03/28/14		7.60		28.73
08/14/14	8.72		27.61		
01/28/15	7.97		28.36		
07/09/15	8.75		27.58		

TABLE 2
GROUNDWATER ELEVATION DATA
Alaska Gas Service Station
6211 San Pablo Avenue, Oakland, CA

Well ID	Date of Measurement	Well Casing Elevation (feet-MSL)	Depth to Groundwater (feet bgs)	Product Thickness (feet)	Groundwater Elevation* (feet-MSL)	
MW-3	11/07/99	33.74	7.55		26.19	
	03/08/01		5.36		28.38	
	11/17/01		7.18		26.56	
	03/31/02		6.27		27.47	
	09/09/03		7.52		26.22	
	12/09/03		6.45		27.29	
	02/19/04		5.56		28.18	
	05/24/04		6.99		26.75	
	09/03/04		7.53		26.21	
	11/02/04		6.88		26.86	
	02/17/05		5.01		28.73	
	08/15/05		7.71		26.03	
	11/17/05		7.56		26.18	
	02/08/06		6.00		27.74	
	05/05/06		6.65		27.09	
	08/18/06		7.73		26.01	
	12/01/06		8.51		25.23	
	08/16/07		7.62		26.12	
	11/08/07		7.52		26.22	
	02/14/08		5.60		28.14	
	05/15/08		35.12	7.23		27.89
	09/10/08			8.08		27.04
	11/18/08			7.52		27.60
	02/17/09			4.36		30.76
	05/15/09			6.50		28.62
	08/13/09	7.96			27.16	
02/23/10	5.10			30.02		
08/12/10	7.40		27.72			
<i>Well Destroyed May 17, 2011</i>						
MW-3R	07/14/11	--	7.01		--	
	08/17/11		7.48		--	
	3828/14		7.68		--	
	08/14/14		8.98		--	
	01/28/15		8.15		--	
	07/09/15		8.89		--	

TABLE 2
GROUNDWATER ELEVATION DATA
Alaska Gas Service Station
6211 San Pablo Avenue, Oakland, CA

Well ID	Date of Measurement	Well Casing Elevation (feet-MSL)	Depth to Groundwater (feet bgs)	Product Thickness (feet)	Groundwater Elevation* (feet-MSL)	
MW-4	11/17/01	32.38	5.75		26.63	
	03/31/02		5.40		26.98	
	12/09/03		--		--	
	09/09/03		--		--	
	05/24/04			5.70	0.33	26.91
	02/19/04			3.56	0.25	29.00
	05/05/06			5.60		26.78
	08/18/06			6.45		25.93
	12/01/06			5.95		26.43
	11/18/07			6.60		25.78
	02/14/08		4.28		28.10	
	05/15/08	34.11	5.43		28.68	
	09/10/08		7.26		26.85	
	11/18/08		5.84		28.27	
	02/17/09		2.67		31.44	
	05/15/09		4.90		29.21	
	08/13/09		6.02		28.09	
	02/23/10		3.84		30.27	
	08/12/10		5.65		28.46	
	02/17/11		3.19		30.92	
				<i>Well Destroyed May 17, 2011</i>		
MW-4R	07/14/11	--	5.31		--	
	08/17/11		5.78		--	
	03/28/14		5.90		--	
	08/14/14		7.28		--	
	01/28/15		6.46		--	
	07/09/15		7.20		--	

TABLE 2
GROUNDWATER ELEVATION DATA
Alaska Gas Service Station
6211 San Pablo Avenue, Oakland, CA

Well ID	Date of Measurement	Well Casing Elevation (feet-MSL)	Depth to Groundwater (feet bgs)	Product Thickness (feet)	Groundwater Elevation* (feet-MSL)
MW-5	11/17/01	33.75	6.22		27.53
	03/31/02		6.35		27.40
	09/09/03		7.08		26.67
	12/09/03		6.13		27.62
	02/19/04		5.11		28.64
	05/24/04		6.57		27.18
	09/03/04		7.01		26.74
	11/02/04		6.43		27.32
	05/24/05		6.02		27.73
	08/17/05		6.75		27.00
	11/17/05		6.47		27.28
	02/08/06		5.53		28.22
	05/05/06		6.10		27.65
	08/18/06		6.77		26.98
	12/01/06		6.47		27.28
	08/16/07		6.79		26.96
	11/08/07		6.43		27.32
	02/14/08		5.31		28.44
	05/15/08		35.17	6.29	
	09/10/08	6.99			28.18
	11/18/08	6.41			28.76
	02/17/09	4.07			31.10
	05/15/09	5.59			29.58
	08/13/09	6.81			28.36
	02/23/10	5.05			30.12
	08/12/10	6.61			28.56
	02/17/11	5.03			30.14
	08/17/11	6.59			28.58
	03/28/14	6.97			28.20
	08/14/14	8.32			26.85
	01/28/15	7.62		27.55	
07/09/15	8.19		26.98		

TABLE 2
GROUNDWATER ELEVATION DATA
Alaska Gas Service Station
6211 San Pablo Avenue, Oakland, CA

Well ID	Date of Measurement	Well Casing Elevation (feet-MSL)	Depth to Groundwater (feet bgs)	Product Thickness (feet)	Groundwater Elevation* (feet-MSL)
MW-6	11/17/01	34.68	7.19		27.49
	03/31/02		6.58		28.10
	09/09/03		8.21		26.47
	12/09/03		7.11		27.57
	02/19/04		5.61		29.07
	05/24/04		--		--
	09/03/04		8.25		26.43
	11/02/04		7.57		27.11
	02/17/05		5.70		28.98
	08/15/05		7.91		26.77
	11/17/05		7.80		26.88
	02/08/06		6.16		28.52
	05/05/06		6.81		27.87
	08/18/06		7.97		26.71
	12/01/06		7.60		27.08
	08/16/07		7.94		26.74
	11/08/07		7.71		26.97
	02/14/08	5.83		28.85	
	05/15/08	36.07	7.51		28.56
	09/10/08		8.32		27.75
	11/18/08		7.73		28.34
	02/17/09		4.64		31.43
	05/15/09		6.89		29.18
	08/13/09		8.26		27.81
	02/23/10		5.76		30.31
	08/12/10		7.71		28.36
	02/17/11		4.89		31.18
	08/17/11		7.78		28.29
	03/28/14		7.20		28.87
	08/14/14		8.67		27.40
	01/28/15		7.88		28.19
	07/09/15		8.65		27.42

TABLE 2
GROUNDWATER ELEVATION DATA
Alaska Gas Service Station
6211 San Pablo Avenue, Oakland, CA

Well ID	Date of Measurement	Well Casing Elevation (feet-MSL)	Depth to Groundwater (feet bgs)	Product Thickness (feet)	Groundwater Elevation* (feet-MSL)
MW-7	02/23/10	31.16	2.09		29.07
	08/12/10		4.14		27.02
	02/17/11		1.68		29.48
	08/17/11		4.01		27.15
	03/28/14		4.48	0.03	26.70
	05/28/14		5.07	0.01	26.10
	08/14/14		5.54		25.62
	01/28/15		4.95		26.21
	07/09/15		5.40		25.76
MW-8	02/23/10	30.92	2.66		28.26
	08/12/10		4.16		26.76
	02/17/11		1.01		29.91
	08/17/11		4.41		26.51
	03/28/14		3.87		27.05
	08/14/14		5.41		25.51
	01/28/15		4.70		26.22
	07/09/15		5.31		25.61
MW-9	02/23/10	28.90	2.84		26.06
	08/12/10		4.53		24.37
	02/17/11		1.93		26.97
	08/17/11		4.82		24.08
	03/28/14		4.65		24.25
	08/14/14		6.67		22.23
	01/28/15		5.96		22.94
	07/09/15		6.62		22.28
MW-10	02/23/10	30.28	0.98		29.30
	08/12/10		3.47		26.81
	02/17/11		0.95		29.33
	08/17/11		3.39		26.89
	03/28/14		2.50		27.78
	08/14/14		4.65		25.63
	01/28/15		3.87		26.41
	07/09/15		4.41		25.87

TABLE 2
GROUNDWATER ELEVATION DATA
Alaska Gas Service Station
6211 San Pablo Avenue, Oakland, CA

Well ID	Date of Measurement	Well Casing Elevation (feet-MSL)	Depth to Groundwater (feet bgs)	Product Thickness (feet)	Groundwater Elevation* (feet-MSL)
EX-1	02/19/04	33.28	3.96	0.76	29.32
	05/24/04		5.56		28.25
	02/08/06		4.92		28.36
	05/05/06		5.15		28.13
	08/18/06		5.85		27.43
	12/01/06		4.96		28.32
	11/08/07		5.10		28.18
	02/14/08		3.51		29.77
	05/15/08		4.69		28.59
	09/10/08		5.46		27.82
	11/18/08		4.79		28.49
	02/17/09		1.86		31.42
	05/15/09		4.16		29.12
	08/13/09		8.36		24.92
	02/23/10		3.09		30.19
	08/12/10		4.91		28.37
	02/17/11		2.53		30.75

Well Destroyed May 17, 2011

Notes:

* = Groundwater Elevation is corrected for the presence of free phase petroleum hydrocarbons by the following formula: casing elevation - depth to water + (0.7 * free phase petroleum hydrocarbon thickness)

-- = Not measured or Not Available

MSL = mean sea level

bgs = below ground surface

Information prior to February 2014, taken from the AEI Consultants, *Remedial Action Report / Groundwater Monitoring Report - 2nd Semester 2011*, dated October 6, 2011.