ExxonMobil
Environmental Services Company
4096 Piedmont Avenue #194
Oakland, California 94611
510.547.8196 Telephone
510.547.8706 Facsimile
jennifer.c.sedlachek@exxonmobil.com

Jennifer C. Sedlachek
Project Manager

ExxonMobil

September 8, 2016

RECEIVED
By Alameda County Environmental Health 3:29 pm, Sep 12, 2016

Ms. Karel Detterman
Alameda County Health Care Services Agency
Department of Environmental Health
1131 Harbor Bay Parkway, Room 250
Alameda, California 94502-6577

RE: Former Mobil RAS #99105/6301 San Pablo Avenue, Oakland, California.

Dear Ms. Detterman:

Attached for your review and comment is a copy of the letter report entitled ***Work Plan for Additional Soil Vapor Assessment***, dated September 8, 2016, for the above-referenced site. The report was prepared by Cardno, of Petaluma, California, and details activities at the subject site.

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.

If you have any questions or comments, please contact me at 510.547.8196.

Sincerely,

Jennifer C. Sedlachek
Project Manager

Attachment: Cardno's ***Work Plan for Additional Soil Vapor Assessment***, dated September 8, 2016

cc: w/ attachment
Mr. Leroy Griffin, Oakland Fire Department
Messrs. On Dan and Nathan Lam

w/o attachment
Mr. Scott Perkins, Cardno

September 8, 2016
Cardno 2783C.W03

Cardno

601 N. McDowell Boulevard
Petaluma, CA 94954
USA

Phone: +1 800 382 9105
Fax: +1 707 789 0414
Contractor: #997036

www.cardno.com

Ms. Jennifer C. Sedlachek
ExxonMobil Environmental Services Company
4096 Piedmont Avenue #194
Oakland, California 94611

SUBJECT **Work Plan for Additional Soil Vapor Assessment**
Former Mobil Service Station 99105
6301 San Pablo Avenue, Oakland, California

Ms. Sedlachek:

At the request of ExxonMobil Environmental Services (EMES), on behalf of ExxonMobil Oil Corporation, Cardno prepared this work plan for additional soil vapor assessment. The purpose of the work is to further assess concentrations of fuel hydrocarbons and related constituents in soil vapor near the commercial building at the site and to evaluate potential risks to workers or patrons posed by the potential intrusion of soil vapor to indoor air. Cardno proposes to install three shallow soil vapor sampling wells to approximately 2 feet bgs near the office space of the on-site building.

SITE DESCRIPTION

The site (Assessor's Parcel Number 16-1455-10) is located at 6301 San Pablo Avenue, on the northwest corner of San Pablo Avenue and 63rd Street, in Oakland, California, as shown in the Site Vicinity Map (Plate 1). The site was operated as a Mobil service station from 1951 to 1980, then used as a rental car lot, and is currently an automobile oil change facility. Four 2,000-gallon gasoline USTs and one 350-gallon used-oil UST were present on the property. The tanks were not used after 1980 and were removed in 1994. The locations of the former USTs, former dispenser islands, groundwater monitoring wells, and select site features are shown on the Generalized Site Plan (Plate 2).

The site lies at an elevation of approximately 42 feet above msl. Properties in the vicinity of the site are occupied by-mixed use residential and commercial developments. An elementary school is located across San Pablo Avenue to the east and residential properties are located to the west and south of the site (Plate 2). The Saint Paul Primitive Baptist Church is located adjacent to the site to the southwest.

The subject site is located in the East Bay Plain Subbasin of the Santa Clara Valley Groundwater Basin. A northwest trending alluvial plain, the East Bay Plain Subbasin is bounded on the north by San Pablo Bay, on the east by the Franciscan Basement rock contact, and by the Niles Cone Groundwater Basin to the south. The East Bay Plain Subbasin aquifer system consists of unconsolidated deposits, Quaternary in age, with a cumulative thickness of approximately 1,000 feet. These deposits included early Pleistocene Santa Clara Formation, the late Pleistocene Alameda Formation, the early Holocene Temescal Formation, and artificial fill (DWR, 2014).

DTW at the subject site has ranged from approximately 3.75 to 13.81 feet bgs during the monitoring program. The direction of groundwater flow is typically towards the west and San Francisco Bay.

PREVIOUS WORK

Cumulative groundwater monitoring and sampling data is included in Tables 1A and 1B. Well construction details are included in Table 2. Cumulative soil analytical results are included in Tables 3. Cumulative soil vapor analytical results and PID readings are included in Tables 4 and 5, respectively.

Site Assessment Activities

Site assessment activities have included the installation of groundwater monitoring wells MW1 through MW8, temporary monitoring points MP-1 through MP-6, soil vapor sampling wells VW1 through VW5 and SVS1 through SVS3, and the drilling of soil borings AB-1 through AB-13, B1 through B5, and HA-1 (ETIC, 2011; Cardno ERI, 2014; Cardno ERI, 2012). Wells MW1, MW4, and MP-1 through MP-6 have been destroyed (ETIC, 2011).

Remediation Activities

In 1994, one 350-gallon used oil UST and four 2,000-gallon gasoline USTs were removed from the site. Holes were observed in two of the 2,000-gallon gasoline tanks. Analytical results from soil samples collected from the bottom of the gasoline tank excavation area (11 feet bgs), indicated maximum concentrations of 520 mg/kg of TPHg and 0.18 mg/kg of benzene. During UST excavation, liquid-phase hydrocarbons were observed in groundwater (Alisto, 1996).

In February 1996, standing water in the UST excavation was pumped out of the excavation area. Soil samples were collected from the bottom of the gasoline tank excavation area (Table 3). Additionally, two 2-inch diameter steel and three 2-inch diameter fiberglass fuel pipelines were removed from the site. Signs of rust were observed in the steel piping at the stub-ups near the northwest end of the former dispenser island. Holes were not observed in the pipes. The pipeline excavation was approximately 3 feet deep by 3 feet wide and 50 feet long, extending from the southeastern corner of the gasoline tank excavation to the dispenser islands. Hydrocarbons were observed in soil near the northwestern end of the former dispenser island. An area approximately 16 feet long by 11 feet wide and 5 feet deep was overexcavated to remove the soil. Compliance soil samples were collected every 20 feet from beneath the former product lines (Alisto, 1996).

An estimated total of 367 cubic yards of soil was excavated from the site during the UST and product line removals (ETIC, 2011).

During redevelopment activities conducted by the property owner in early 1999, more than 200 cubic yards of soil was removed from the northeastern side of the site (ETIC, 2011).

A DPE event was conducted in November 1998. Monitoring wells MW3 and MW4 were used as groundwater and soil vapor extraction wells. Six temporary monitoring points (MP-1 through MP-6) were installed to monitor vacuum readings and groundwater depths during the DPE event. Approximately 75 gallons of groundwater were generated and 21 pounds of vapor-phase hydrocarbons were removed. Monitoring points MP-1 through MP-6 were destroyed following the DPE event (TRC, 2000).

A second DPE test was performed in August 2014. Approximately 37 pounds of vapor-phase TPHg was removed during 86 hours of operation (Cardno ERI, 2014).

Soil Vapor Monitoring Activities

Soil vapor monitoring began at the site in 2010 with the installation of wells VW1 through VW5 (ETIC, 2011). Off-site soil vapor sampling wells SVS1 though SVS3 were installed and sampled in 2012 (Cardno ERI, 2012). Cumulative soil vapor analytical data is presented in Table 4. In addition to the sampling, PID readings have been collected from select wells during groundwater monitoring events since 2014 (Table 5). Concentrations and/or reporting limits of select analytes exceed applicable screening levels. Maximum concentrations and PID readings have been reported from well VW4 located near the southeastern corner of the on-site commercial building.

PROPOSED WORK

Cardno proposes to install three shallow soil vapor sampling wells (SVS4 through SVS6) near the southern building perimeter to further evaluate the distribution and attenuation of vapor-phase concentrations. At each location, a boring will be advanced to approximately 2 feet bgs and a well will be constructed. The proposed locations of the soil vapor sampling wells are shown on Plate 2. The proposed well locations were selected to assess soil vapor conditions near the office portion of the on-site commercial building. With the exception of the office/storage space at the southern end of the building, the building is used for vehicle service. There are large roll-up doors (frequently open) as well as automobiles inside the building. The employees are routinely exposed to vehicle fluids and exhaust from vehicles. In addition, a basement was excavated beneath the building to permit workers to work beneath vehicles to perform fluid changes. The excavation for the basement removed the majority of soil near the product lines associated with the former service station. Soil near (and beyond) the southern portion of the building was not removed during the excavation and includes the location of well VW4. The approximate limits of the basement and associated excavation are shown on Plate 2.

The proposed locations are approximate and may be moved based on subsurface obstructions. Cardno will perform the soil vapor assessment survey in accordance with the protocol presented in the following guidance documentation:

- *Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air* (DTSC, 2011).
- *Advisory – Active Soil Gas Investigations* (DTSC, 2015).
- *Collecting and Interpreting Soil Gas-Samples from the Vadose Zone, A Practical Strategy for Assessing the Subsurface Vapor-to-Indoor Air Migration Pathway of Petroleum Hydrocarbon (API, 2005).*
- *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater* (CRWQCB-SFB, 2016).

The procedures for drilling, decontamination, and well construction are described in the field protocol contained in Appendix A. The fieldwork will be conducted under the advisement of a professional geologist and in accordance with applicable regulatory guidelines.

Pre-Field Activities

Prior to the onset of drilling, a well installation permit will be obtained from the Alameda County Public Works Agency (Public Works) if required. Cardno personnel will visit the site to check for obstructions and to mark the proposed locations. Underground Service Alert, Alameda County Environmental Health Services (ACEH), and Public Works will be notified at least 48 hours prior to the onset of field activities; in addition, a private utility location company will be employed to identify potential underground utilities or other obstructions in the proposed well locations.

Soil Vapor Well Installation

Soil borings SVS4 through SVS6 will be installed using hand augers to a depth of 2 feet bgs. The borings will be installed using a hand auger with a diameter of approximately 2 inches. Soil samples will be collected at total depth (screened interval) from each boring.

The wells will be constructed with a sand pack from approximately 1.5 to 2 feet bgs. Soil vapor samples will be collected a minimum of 48 hours after installation in accordance with the field protocol included in Appendix A.

Soil Vapor Sample Collection

Existing wells VW1 through VW5, SVS1 though SVS3, and proposed wells SVS4 through SVS6 will be purged and sampled following a waiting period of at least 48 hours after installation. The purge volume will be calculated based on the volume of each well and the associated sample collection tubing. Three purge volumes will be removed from each well prior to sample collection.

Prior to purging each well, Cardno will conduct a vacuum leak test on the sampling equipment. For the leak test, Cardno will attach the sample vessel, purging manifold, and vacuum pump to an air-tight valve on the sub-slab well. With the air-tight valve closed, Cardno will apply a vacuum of approximately 25 to 28 inches of mercury (in Hg) to the sample collection system and turn off the vacuum pump. Cardno will then monitor the vacuum for 5 minutes. If the vacuum is not maintained, Cardno will isolate the leak and remount the fittings and tubing until the vacuum is held for 5 minutes.

Purging will be performed with a sample manifold equipped with a vacuum gauge and flow regulator and vacuum pump. The flow regulator will be set to a rate of no more than 200 milliliters per minute (ml/min).

After purging, Cardno will close the vapor-tight valve and remove the purge device. Summa™ canisters with a volume of less than or equal to 400 ml will be used or a mobile laboratory will be mobilized to the site to perform the analysis. The mobile lab and/or smaller (less than one-liter) sample containers will be utilized to minimize the required sample volume which reduces the chance for surface air to enter he sample container. The samples will be collected using a maximum 200 ml/min flow regulator. The Summa™ canister will be opened and allowed to fill. The canister vacuum readings at the beginning and end of sampling will be recorded. Leak detection will be performed during vapor sampling by covering the surface completion of the well and the Summa™ canister with a shroud, and introducing helium into the shroud. The concentration of helium will be maintained at approximately 10%; the helium concentration in the shroud will be monitored with a helium meter. Cardno will end sample collection when the vacuum within the sample canister is approximately 5 in Hg.

Cardno will label the sample containers, store the samples at ambient temperature in laboratory-supplied containers, and initiate COC records.

A minimum of one duplicate sample will be collected during each sampling event. Samples will be collected a minimum of two times, approximately six months apart to evaluate seasonal fluctuations.

Laboratory Analyses

The soil vapor samples will be submitted for analysis to a California state-certified laboratory, under COC protocol. The samples will be analyzed for full-scan VOCs (including but not limited to BTEX, fuel oxygenates, lead scavengers, and naphthalene) by EPA Method TO-15M, TPHg by EPA Method TO-3M, methane by EPA Method 8015M, and oxygen and carbon dioxide by American Society of Testing and Materials (ASTM) Method D-1946. In addition, the samples will be analyzed for naphthalene by EPA method TO-17.

Soil samples will be analyzed for TPHmo, TPHd, and TPHg by EPA Method 8015B; BTEX, naphthalene, fuel oxygenates (MTBE, DIPE, ETBE, TAME, and TBA), and lead scavengers (1,2-DCA and EDB) by EPA Method 8260B; and PAHs using EPA Method 8310.

Site Safety Plan

Fieldwork will be performed in accordance with a site-specific safety plan.

RISK EVALUATION

Cardno will assess potential risk from vapor intrusion by comparing the reported concentrations to ESLs established by the San Francisco Bay Regional Water Quality Control Board (CRWQCB-SFB, 2016). If the published screening levels indicate a potential risk, the risk will be evaluated using the Johnson and Ettinger Model, as modified by the DTSC in December 2014 (DTSC, 2014).

Report

After completion of the proposed field activities, the field and laboratory procedures, boring logs, laboratory results, conclusions, and recommendations will be incorporated into a report and submitted to EMES and ACEH. The report will be signed by a State of California professional geologist.

SCHEDULE

Cardno anticipates initiating the permitting process following approval of this work plan.

CONTACT INFORMATION

The responsible party contact is Ms. Jennifer C. Sedlachek, ExxonMobil Environmental Services Company, 4096 Piedmont Avenue #194, Oakland, California, 94611. The consultant contact is Mr. Scott Perkins, Cardno, 601 North McDowell Boulevard, Petaluma, California, 94954. The agency contact is Ms. Karel Detterman, Alameda County Environmental Health Services, 1131 Harbor Bay Parkway, Suite 250, Alameda, California, 94502-6577.

LIMITATIONS

For documents cited that were not generated by Cardno, the data taken from those documents is used “as is” and is assumed to be accurate. Cardno does not guarantee the accuracy of this data and makes no warranties for the referenced work performed nor the inferences or conclusions stated in these documents.

This document and the work performed have been undertaken in good faith, with due diligence and with the expertise, experience, capability, and specialized knowledge necessary to perform the work in a good and workmanlike manner and within all accepted standards pertaining to providers of environmental services in California at the time of investigation. No soil engineering or geotechnical references are implied or should be inferred. The evaluation of the geologic conditions at the site for this investigation is made from a limited number of data points. Subsurface conditions may vary away from these data points.

Please contact Mr. Scott Perkins, Cardno's project manager for this site, at scott.perkins@cardno.com or at (707) 766-2000 with any questions or comments regarding this work plan.

Sincerely,

Scott Perkins
Senior Project Manager
for Cardno
707 766 2000
Email: scott.perkins@cardno.com

David R. Daniels
P.G. 8737
for Cardno
707 766 2000
Email: david.daniels@cardno.com

Enclosures:

References

Acronym List

Plate 1	Site Vicinity Map
Plate 2	Generalized Site Plan
Table 1A	Cumulative Groundwater Monitoring and Sampling Data
Table 1B	Additional Cumulative Groundwater Monitoring and Sampling Data
Table 2	Well Construction Details
Table 3	Cumulative Soil Analytical Results
Table 4	Cumulative Soil Vapor Analytical Data
Table 5	Cumulative PID Readings, Vapor Wells
Appendix A	Field Protocol

cc: Ms. Karel Detterman, Alameda County Environmental Health Services, 1131 Harbor Bay Parkway, Second Floor, Alameda, California, 94502

Mr. Leroy Griffin, Oakland Fire Department, 250 Frank H. Ogawa, Suite 3341, Oakland, California, 94612

Messrs. On Dan and Nathan Lam, 200 El Dorado Terrace, San Francisco, California, 94112

REFERENCES

Alisto Engineering Groups (Alisto). April 15, 1996. *Additional Tank Closure and Preliminary Site Investigation Report, Former Mobil Oil Corporation Station 99-105, 6301 San Pablo Avenue, Oakland, California.*

American Petroleum Institute (API). November 2005. *Collecting and Interpreting Soil Gas Samples from the Vadose Zone, A Practical Strategy for Assessing the Subsurface Vapor-to-Indoor Air Migration Pathway for Petroleum Hydrocarbon Sites*. Publication Number 4741.

California Regional Water Quality Control Board, San Francisco Bay Region (CRWQCB-SFB). February 2016. *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater.*

California Department of Toxic Substances Control of the California EPA (DTSC). October 2011. *Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air* (Final).

California Department of Toxic Substances Control (DTSC). December 2014. *Screening-Level Model for Soil Gas Contamination*.

California Department of Toxic Substances Control of the California EPA, Department of Toxic Substances Control, California Regional Water Quality Control Board, Los Angeles Region and San Francisco Region (DTSC). July 2015. *Advisory – Active Soil Gas Investigations*.

California Department of Water Resources (DWR). February 27, 2004. *California Groundwater, Bulletin 118 San Francisco Bay Hydrologic Region, Santa Clara Valley Groundwater Basin.*

Cardno ERI. July 26, 2012. *Assessment Report, Former Mobil Service Station 99105, 6301 San Pablo Avenue, Oakland, California.*

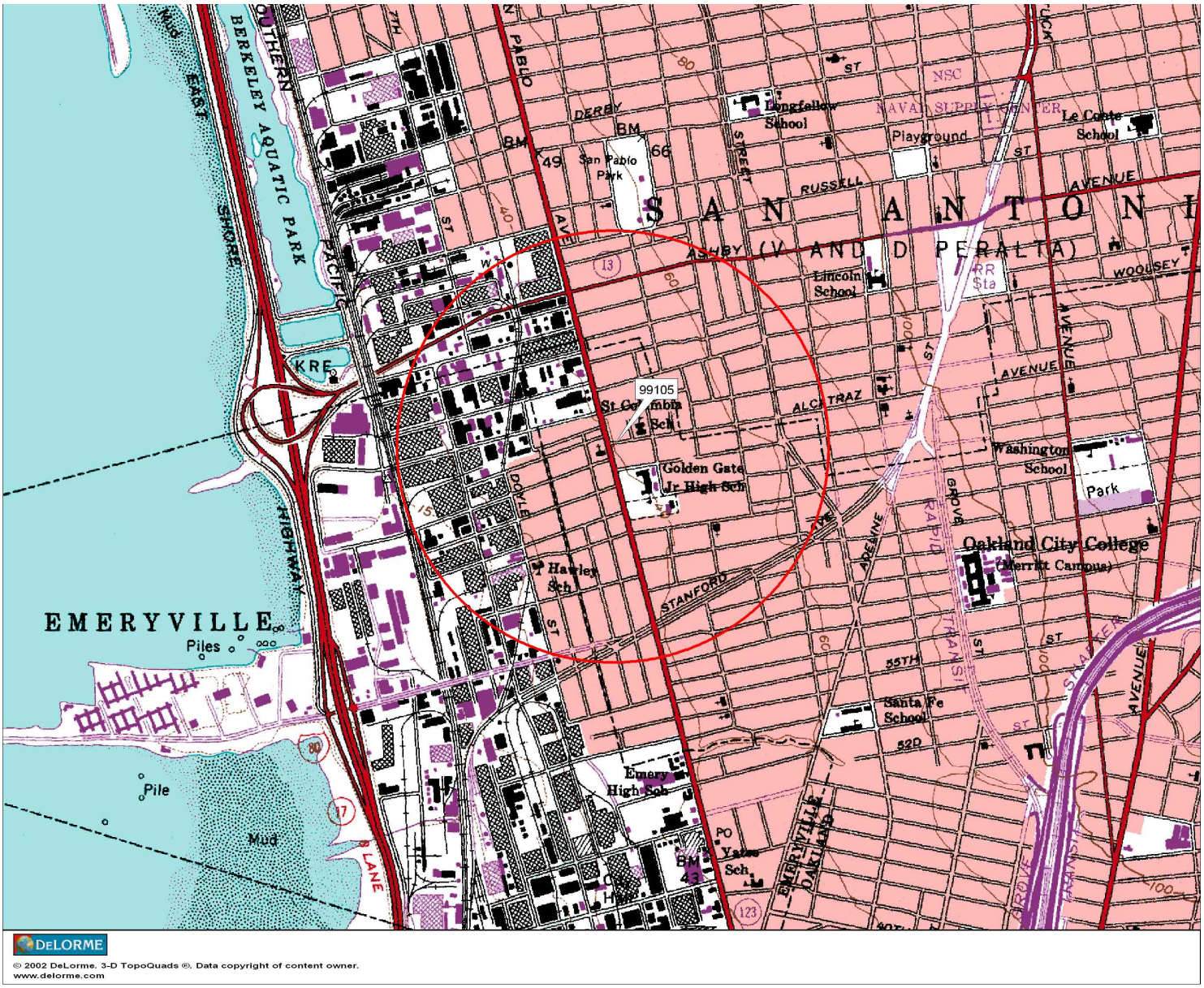
Cardno ERI. September 10, 2014. *Well Installation and Feasibility Study, Former Mobil Service Station 99105, 6301 San Pablo Avenue, Oakland, California.*

ETIC Engineering, Inc. (ETIC). March 2011. *Subsurface Investigation Report, Former Mobil Station 99105, 6301 San Pablo Avenue, Oakland, California.*

TRC Alton Geoscience (TRC). April 11, 2000. *Supplemental Site Assessment Report, Former Mobil Station 99-105, 6301 San Pablo Avenue, Oakland.*

ACRONYM LIST

µg/L	Micrograms per liter
µs	Microsiemens
1,2-DCA	1,2-dichloroethane
acfm	Actual cubic feet per minute
AS	Air sparge
bgs	Below ground surface
BTEX	Benzene, toluene, ethylbenzene, and total xylenes
CEQA	California Environmental Quality Act
cfm	Cubic feet per minute
COC	Chain of Custody
CPT	Cone Penetration (Penetrometer) Test
DIPE	Di-isopropyl ether
DO	Dissolved oxygen
DOT	Department of Transportation
DPE	Dual-phase extraction
DTW	Depth to water
EDB	1,2-dibromoethane
EPA	Environmental Protection Agency
ESL	Environmental screening level
ETBE	Ethyl tertiary butyl ether
FID	Flame-ionization detector
fpm	Feet per minute
GAC	Granular activated carbon
gpd	Gallons per day
gpm	Gallons per minute
GWPTS	Groundwater pump and treat system
HVOC	Halogenated volatile organic compound
J	Estimated value between MDL and PQL (RL)
LEL	Lower explosive limit
LPC	Liquid-phase carbon
LRP	Liquid-ring pump
LUFT	Leaking underground fuel tank
LUST	Leaking underground storage tank
MCL	Maximum contaminant level
MDL	Method detection limit
mg/kg	Milligrams per kilogram
mg/L	Milligrams per liter
mg/m^3	Milligrams per cubic meter
MPE	Multi-phase extraction
MRL	Method reporting limit
msl	Mean sea level
MTBE	Methyl tertiary butyl ether
MTCA	Model Toxics Control Act
NAI	Natural attenuation indicators
NAPL	Non-aqueous phase liquid
NEPA	National Environmental Policy Act
NGVD	National Geodetic Vertical Datum
NPDES	National Pollutant Discharge Elimination System
O&M	Operations and Maintenance
ORP	Oxidation-reduction potential
OSHA	Occupational Safety and Health Administration
OVA	Organic vapor analyzer
P&ID	Process & Instrumentation Diagram
PAH	Polycyclic aromatic hydrocarbon
PCB	Polychlorinated biphenyl
PCE	Tetrachloroethene or perchloroethylene
PID	Photo-ionization detector
PLC	Programmable logic control
POTW	Publicly owned treatment works
ppmv	Parts per million by volume
PQL	Practical quantitation limit
psi	Pounds per square inch
PVC	Polyvinyl chloride
QA/QC	Quality assurance/quality control
RBSL	Risk-based screening levels
RCRA	Resource Conservation and Recovery Act
RL	Reporting limit
scfm	Standard cubic feet per minute
SSTL	Site-specific target level
STLC	Soluble threshold limit concentration
SVE	Soil vapor extraction
SVOC	Semivolatile organic compound
TAME	Tertiary amyl methyl ether
TBA	Tertiary butyl alcohol
TCE	Trichloroethene
TOC	Top of well casing elevation; datum is msl
TOG	Total oil and grease
TPHd	Total petroleum hydrocarbons as diesel
TPHg	Total petroleum hydrocarbons as gasoline
TPHmo	Total petroleum hydrocarbons as motor oil
TPHs	Total petroleum hydrocarbons as stoddard solvent
TRPH	Total recoverable petroleum hydrocarbons
UCL	Upper confidence level
USCS	Unified Soil Classification System
USGS	United States Geologic Survey
UST	Underground storage tank
VCP	Voluntary Cleanup Program
VOC	Volatile organic compound
VPC	Vapor-phase carbon



FN 2783TOPO

EXPLANATION

1/2-mile radius circle

N

APPROXIMATE SCALE

0 0.5 1 mile

SOURCE:
Modified from a map
provided by
DeLorme 3-D TopoQuads

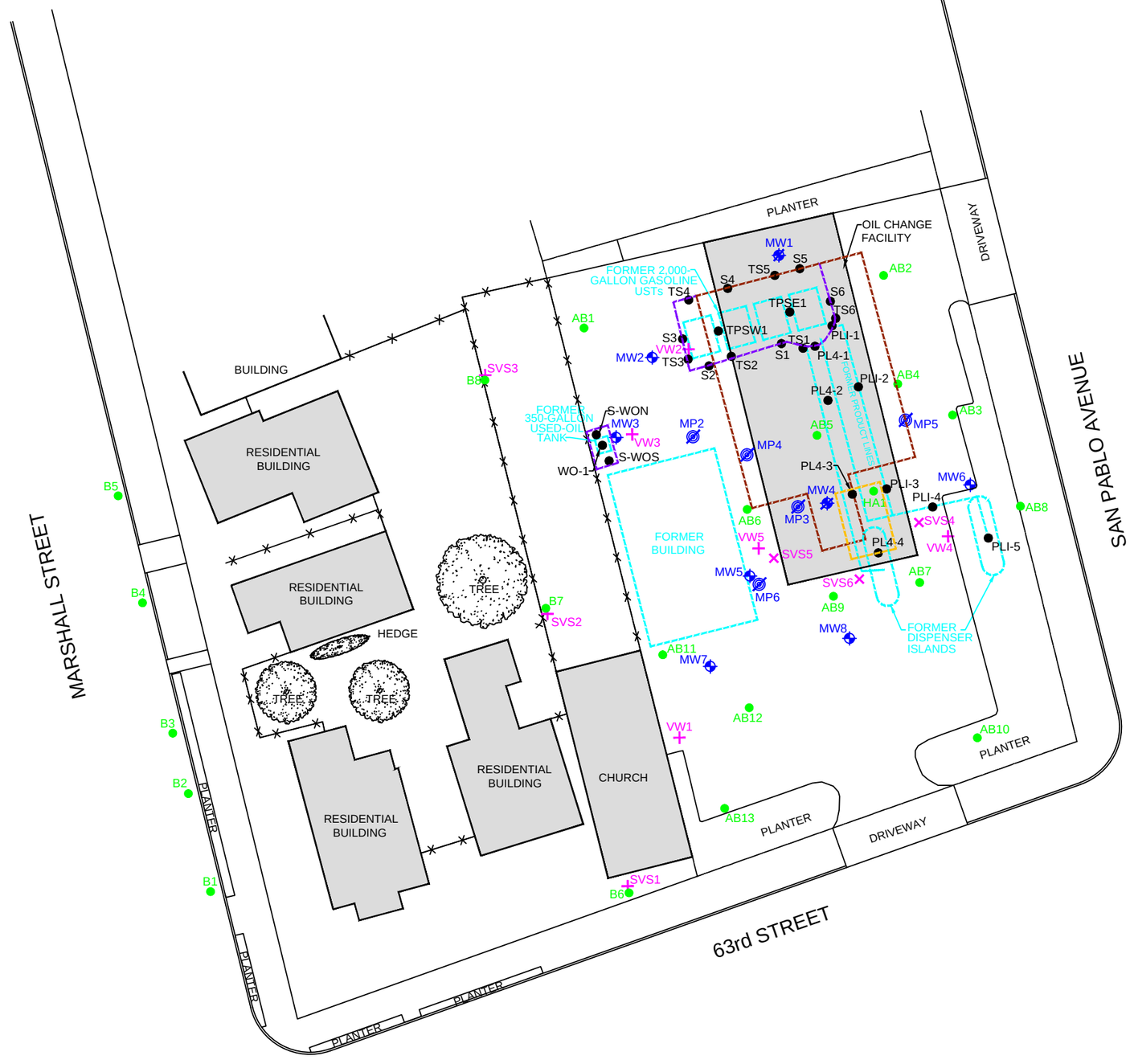
SITE VICINITY MAP

FORMER MOBIL SERVICE STATION 99105
6301 San Pablo Avenue
Oakland, California

Cardno
Shaping the Future

PROJECT NO.
2783

PLATE
1



APPROXIMATE SCALE

0 30 60 Feet

FN 27830001 W03

Cardno Shaping the Future

GENERALIZED SITE PLAN

FORMER MOBIL SERVICE STATION 99105
6301 San Pablo Avenue
Oakland, California

EXPLANATION

- MW8 Groundwater Monitoring Well
- AB13 Soil Boring
- VW5 Soil Vapor Sampling Well
- SVS6 Proposed Soil Vapor Sampling Well
- MW4 Destroyed Groundwater Monitoring Well
- MP6 Destroyed Observation Well
- PLI-5 Soil Boring by Others (Alisto Engineering Group and Tank Protect Engineering)
- 1994 Areas of Excavation
- 1996 Area of Excavation
- 1999 Area of Excavation

PROJECT NO. 2783

PLATE 2

TABLE 1A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Mobil Service Station 99105
6301 San Pablo Avenue
Oakland, California

Well ID	Sampling Date		TOC Elev. (feet)	DTW (feet)	GW Elev. (feet)	NAPL (feet)	TPHd (µg/L)	TPHg (µg/L)	MTBE 8020/8021 (µg/L)	MTBE 8240/8260 (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)
Environmental Screening Levels (February 2016)														
Tier 1			---	---	---	---	100	100	5	5	1	40	13	20
MW1	03/14/96		32.79	4.50	28.29	No	**450**	**610**	---	---	0.75	0.54	1.5	**59**
MW1	05/21/96		32.79	5.64	27.15	No	ND	ND	---	---	ND	ND	ND	ND
MW1	08/13/96		32.79	9.76	23.03	No	ND	ND	---	---	ND	ND	ND	ND
MW1	11/08/96		32.79	10.24	22.55	No	ND	ND	ND	---	ND	0.92	ND	2.1
MW1	01/31/97		32.79	3.83	28.96	No	ND	ND	2.6	ND	ND	0.85	ND	ND
MW1	04/22/97		32.79	9.14	23.65	No	ND	ND	ND	---	ND	ND	ND	ND
MW1	07/29/97	a	32.79	10.18	22.61	No	60e	ND	**36**	---	0.84	0.95	ND	1.6
MW1	10/09/97	a	32.79	10.46	22.33	No	56e	ND	ND	---	ND	ND	ND	ND
MW1	01/23/98	a	32.79	3.95	28.84	No	33	ND	ND	---	ND	ND	ND	ND
MW1	04/22/98		32.79	5.33	27.46	No	ND	ND	ND	---	ND	ND	ND	ND
MW1	07/21/98		32.79	9.17	23.62	No	---	ND	ND	---	ND	ND	ND	ND
MW1	10/20/98		32.79	10.41	22.38	No	---	ND	ND	---	ND	ND	ND	ND
MW1	01/27/99		32.79	5.51	27.28	No	---	ND	ND	---	ND	ND	ND	ND
MW1	Apr-99		Destroyed during construction activities.											
MW2	03/14/96		32.80	4.51	28.29	No	**250**	**560**	---	---	**2.0**	0.96	4.3	11
MW2	05/21/96		32.80	5.65	27.15	No	**560**	**730**	---	---	**5.1**	1.4	6.7	5.9
MW2	08/13/96		32.80	10.14	22.66	No	**380b**	**490**	---	---	**25**	3.5	7.2	13
MW2	11/08/96		32.80	10.70	22.10	No	**160d**	**520**	**6.1**	---	**80**	2.7	14	**66**
MW2	01/31/97		32.80	3.84	28.96	No	**130b**	74	ND	---	ND	ND	ND	ND
MW2	04/22/97		32.80	9.61	23.19	No	**430**	**260**	ND	---	**2.7**	ND	2.5	ND
MW2	07/29/97	a	32.80	10.53	22.27	No	**150d**	**320**	ND	---	**28**	1.2	10	ND
MW2	10/09/97	a	32.80	10.87	21.93	No	**160b**	**460**	2.6	---	**43**	2.8	2.0	2.6
MW2	01/23/98	a	32.80	3.75	29.05	No	54	ND	ND	---	ND	ND	ND	ND
MW2	04/22/98		32.80	5.36	27.44	No	**540**	**180**	ND	---	**1.2**	0.3	0.4	ND
MW2	07/21/98		32.80	9.55	23.25	No	---	80	ND	---	**8.9**	2.1	0.6	2.5
MW2	10/20/98		32.80	10.75	22.05	No	---	50	ND	---	0.8	0.7	ND	0.8
MW2	01/27/99		32.80	5.53	27.27	No	---	ND	ND	---	0.6	ND	ND	ND
MW2	07/27/99		32.80	6.20	26.60	No	---	ND	ND	---	ND	0.6	ND	ND
MW2	12/08/99		32.80	9.98	22.82	No	---	ND	ND	---	**1.2**	0.43	ND	ND
MW2	10/25/00		39.34	11.30	28.04	No	---	<20	<0.30	---	**2.0**	0.59	0.46	1.3
MW2	01/15/01		39.34	9.41	29.93	No	---	<20	<0.30	---	<0.20	0.46	<0.20	<0.60
MW2	04/10/01		39.34	6.16	33.18	No	---	23	<1.0	---	0.28	<0.20	<0.20	<0.60
MW2	07/24/01		39.34	10.70	28.64	No	---	<50	<0.30	---	<0.20	0.93	<0.20	0.82
MW2	11/27/01		39.34	10.15	29.19	No	---	<50	<0.30	---	**1.2**	0.22	<0.20	<0.60
MW2	01/18/02		41.99	5.46	36.53	No	---	<50.0	1.40	---	<0.50	<0.50	<0.50	<0.50
MW2	04/10/02		41.99	6.48	35.51	No	---	<50.0	1.80	---	<0.50	<0.50	<0.50	<0.50
MW2	07/12/02		41.99	10.45	31.54	No	---	<50.0	<0.50	---	<0.50	<0.50	<0.50	<0.50

TABLE 1A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Mobil Service Station 99105
6301 San Pablo Avenue
Oakland, California

Well ID	Sampling Date		TOC Elev. (feet)	DTW (feet)	GW Elev. (feet)	NAPL (feet)	TPHd (µg/L)	TPHg (µg/L)	MTBE 8020/8021 (µg/L)	MTBE 8240/8260 (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)
Environmental Screening Levels (February 2016)														
Tier 1			---	---	---	---	100	100	5	5	1	40	13	20
MW2	10/14/02		41.99	11.46	30.53	No	---	<50.0	<0.5	---	<0.5	4.1	0.6	4.0
MW2	01/20/03		41.99	5.39	36.60	No	---	<50.0	0.6	---	<0.50	<0.50	<0.50	<0.50
MW2	04/28/03		41.99	5.87	36.12	No	---	<50.0	<0.50	---	<0.50	<0.50	<0.50	<0.50
MW2	07/15/03		41.99	10.31	31.68	No	---	<50	<0.5	---	<0.5	<0.5	<0.5	<0.5
MW2	10/08/03		41.99	11.20	30.79	No	---	<50	<0.5	---	<0.5	<0.5	<0.5	<0.5
MW2	01/15/04		41.99	5.36	36.63	No	---	63.3	1.0	---	0.70	<0.5	<0.5	<0.5
MW2	Well not sampled from 2004 to 2010.													
MW2	09/17/10		41.99	10.72	31.27	No	<50	<50	---	<0.50	<0.50	<0.50	<0.50	<0.50
MW2	12/15/10		42.24	Well resurveyed.										
MW2	09/14/11		42.24	10.02	32.22	No	**110g**	<50	---	<0.50	<0.50	<0.50	<0.50	<0.50
MW2	01/18/12		42.24	11.24	31.00	No	---	<50	---	<0.50	<0.50	<0.50	<0.50	<0.50
MW2	01/27/12		42.24	9.65	32.59	No	<50	---	---	---	---	---	---	---
MW2	07/09/12		42.24	10.07	32.17	No	<50	<50	---	<0.50	<0.50	<0.50	<0.50	<0.50
MW2	01/25/13		42.24	5.62	36.62	No	<50	<50	---	<0.50	<0.50	<0.50	<0.50	<0.50
MW2	08/23/13		42.24	10.76	31.48	No	<50	<50	---	<0.50	<0.50	<0.50	<0.50	<0.50
MW2	01/10/14		42.24	11.42	30.82	No	<50	<50	---	<0.50	<0.50	<0.50	<0.50	<0.50
MW2	07/14/14		42.24	10.52	31.72	No	<49	<50	---	<0.50	<0.50	<0.50	<0.50	0.52
MW2	08/18/14		42.24	11.06	31.18	No	---	---	---	---	---	---	---	---
MW2	11/06/14		42.24	---	---	---	---	---	---	---	---	---	---	---
MW2	01/23/15		42.24	6.10	36.14	No	<50	62g	---	<0.50	<0.50	<0.50	<0.50	<0.50
MW2	06/26/15		42.24	---	---	---	---	---	---	---	---	---	---	---
MW2	08/14/15		42.24	11.45	30.79	No	<50	<50	---	<0.50	<0.50	<0.50	<0.50	<0.50
MW2	03/25/16		42.24	4.62	37.62	No	<45	<50	---	<0.50	<0.50	<0.50	<0.50	<0.50
MW2	07/12/16		42.24	10.37	31.87	No	<50	<50	---	<0.50	<0.50	<0.50	<0.50	<0.50
MW3	03/14/96		32.80	9.55	23.25	No	**1,200**	**4,200**	---	---	**220**	30	**140**	**520**
MW3	05/21/96		32.80	10.16	22.64	No	**2,800**	**8,500**	---	---	**710**	**110**	**440**	**1,700**
MW3	08/13/96		32.80	11.18	21.62	No	**2,300c**	**5,000**	---	---	**430**	ND	**200**	**360**
MW3	11/08/96		32.80	11.51	21.29	No	**2,900b**	**8,400**	**73**	ND	**890**	**82**	**790**	**1,700**
MW3	01/31/97		32.80	7.90	24.90	No	**7,500b**	**16,000**	ND	---	**660**	**85**	**960**	**1,800**
MW3	04/22/97		32.80	10.64	22.16	No	**2,700**	**8,000**	**200**	ND	**340**	33	**400**	**490**
MW3	07/29/97	a	32.80	11.36	21.44	No	**2,300b**	**9,800**	ND	---	**330**	ND	**530**	**530**
MW3	10/09/97	a	32.80	11.52	21.28	No	**2,600b**	**7,300**	**270**	ND	**300**	ND	**430**	**460**
MW3	01/23/98	a	32.80	7.50	25.30	No	**2,300**	**6,100**	ND	---	**190**	23	**330**	**320**
MW3	04/22/98		32.80	6.81	25.99	No	**2,600**	**4,900**	ND	ND	**140**	12	**250**	**230**
MW3	07/21/98		32.80	10.65	22.15	No	---	**7,400**	**74**	ND	**250**	16	**400**	**370**
MW3	10/20/98		32.80	11.57	21.23	No	---	**6,700**	ND	ND	**200**	18	**350**	**350**
MW3	01/27/99		32.80	9.11	23.69	No	---	**3,100**	**13**	---	**74**	4	**94**	**39**

TABLE 1A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Mobil Service Station 99105
6301 San Pablo Avenue
Oakland, California

Well ID	Sampling Date	TOC Elev. (feet)	DTW (feet)	GW Elev. (feet)	NAPL (feet)	TPHd (µg/L)	TPHg (µg/L)	MTBE 8020/8021 (µg/L)	MTBE 8240/8260 (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)
Environmental Screening Levels (February 2016)													
Tier 1		---	---	---	---	100	100	5	5	1	40	13	20
MW3	07/27/99	32.80	7.27	25.53	No	---	**8,900**	ND	---	**170**	21	**360**	**440**
MW3	12/08/99	32.80	10.63	22.17	No	---	**4,800**	ND	---	**94**	13	**170**	**210**
MW3	10/25/00	39.27	12.08	27.19	No	---	**3,800**	**<50**	<5	**63**	2.9	**100**	**65**
MW3	01/15/01	39.27	10.29	28.98	No	---	**4,300**	<5.0	---	**76**	9.5	**47**	**76**
MW3	04/10/01	39.27	10.11	29.16	No	---	**2,700**	**<20**	---	**55**	4.4	**100**	**37**
MW3	07/24/01	39.27	11.57	27.70	No	---	**3,100**	<1.0	---	**110**	6.9	**110**	**81**
MW3	11/27/01	39.27	10.93	28.34	No	---	**2,400**	<0.30	---	**47**	8.9	**25**	**35**
MW3	01/18/02	41.71	9.47	32.24	No	---	**1,130**	**13.6**	---	**15.3**	2.30	**42.0**	**24.6**
MW3	04/10/02	41.71	10.14	31.57	No	---	**916**	**11.2**	---	**35.1**	3.00	**22.5**	13.8
MW3	07/12/02	41.71	11.34	30.37	No	---	**2,330**	**15.4**	---	**60.5**	2.90	**39.8**	**50.9**
MW3	10/14/02	41.71	12.10	29.61	No	---	**2,550**	<0.5	---	**36.9**	3.8	**20.3**	**48.0**
MW3	01/20/03	41.71	9.20	32.51	No	---	**1,750**	**10.7**	---	**20.4**	**304.0**	**60.7**	**22.0**
MW3	04/28/03	41.71	9.37	32.34	No	---	**2,730**	**11.2**	---	**10.0**	2.7	**42.7**	**20.1**
MW3	07/15/03	41.71	11.15	30.56	No	---	**1,790**	**5.6**	---	**68.8**	3.6	**39.0**	**44.7**
MW3	10/08/03	41.71	11.89	29.82	No	---	**1,320**	**7.1**	---	**35.1**	4.0	**23.6**	**31.8**
MW3	01/15/04	41.71	9.16	32.55	No	---	**791**	3.4	---	**24.4**	1.3	**40.1**	14.7
MW3	Well not sampled from 2004 to 2010.												
MW3	09/17/10	41.71	11.46	30.25	No	99	**2,500**	---	<0.50	**2.6**	0.31f	1.8	1.8
MW3	12/15/10	42.18	Well resurveyed.										
MW3	09/14/11	42.18	11.37	30.81	No	**270g**	**1,200**	---	<0.50	**18**	0.95	1.7	1.3
MW3	01/18/12	42.18	12.11	30.07	No	---	**910g**	---	<0.50	0.89	<0.50	<0.50	0.88
MW3	01/27/12	42.18	10.18	32.00	No	**1,000g**	---	---	---	---	---	---	---
MW3	07/09/12	42.18	11.15	31.03	No	**420g**	**350g**	---	<0.50	**7.9**	<0.50	<0.50	<0.50
MW3	01/25/13	42.18	9.41	32.77	No	**120g**	**390g**	---	<0.50	**2.8**	<0.50	<0.50	<0.50
MW3	08/23/13	42.18	11.67	30.51	No	**310g**	**640**	---	<0.50	**1.1**	<0.50	<0.50	<0.50
MW3	01/10/14	42.18	12.13	30.05	No	**160g**	**720g**	---	<0.50	<0.50	<0.50	<0.50	<0.50
MW3	07/14/14	42.18	11.55	30.63	No	**320g**	**1,100g**	---	<0.50	**1.8**	<0.50	<0.50	0.53
MW3	08/18/14	42.18	11.83	30.35	No	---	---	---	---	---	---	---	---
MW3	11/06/14	42.18	---	---	---	---	---	---	---	---	---	---	---
MW3	01/23/15	42.18	10.19	31.99	No	**440g**	**750g**	---	<0.50	**5.6**	1.7	0.79	1.0
MW3	06/26/15	42.18	---	---	---	---	---	---	---	---	---	---	---
MW3	08/14/15	42.18	12.25	29.93	No	**120g**	**710g**	---	<0.50	**2.0**	0.50	<0.50	1.3
MW3	03/25/16	42.18	8.05	34.13	No	**190g**	**320g**	---	<0.50	**1.6**	<0.50	0.91	<0.50
MW3	07/12/16	42.18	11.47	30.71	No	**230g**	**340g**	---	<0.50	**2.0**	<0.50	<0.50	<0.50
MW4	03/14/96	31.50	4.92	26.58	No	**3,500**	**12,000**	---	---	**2,200**	**140**	**880**	**2,000**
MW4	05/21/96	31.50	8.60	22.90	No	**4,200**	**11,000**	---	---	**1,700**	ND	**930**	**470**
MW4	08/13/96	31.50	10.02	21.50	0.02	---	---	---	---	---	---	---	---

TABLE 1A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Mobil Service Station 99105
6301 San Pablo Avenue
Oakland, California

Well ID	Sampling Date	TOC Elev. (feet)	DTW (feet)	GW Elev. (feet)	NAPL (feet)	TPHd (µg/L)	TPHg (µg/L)	MTBE 8020/8021 (µg/L)	MTBE 8240/8260 (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)
Environmental Screening Levels (February 2016)													
Tier 1		---	---	---	---	100	100	5	5	1	40	13	20
MW4	11/08/96	31.50	10.28	21.33	0.15	---	---	---	---	---	---	---	---
MW4	01/31/97	31.50	7.88	23.62	No	**8,200b**	**23,000**	ND	---	**980**	**68**	**1,100**	**1,400**
MW4	04/22/97	31.50	7.40	24.10	No	**4,500**	**8,800**	ND	---	**950**	ND	**610**	**130**
MW4	07/29/97	31.50	9.85	21.74	0.12	---	---	---	---	---	---	---	---
MW4	10/09/97	31.50	10.35	21.38	0.30	---	---	---	---	---	---	---	---
MW4	01/23/98	31.50	4.68	27.51	0.92	---	---	---	---	---	---	---	---
MW4	04/22/98	31.50	6.39	25.22	0.14	---	---	---	---	---	---	---	---
MW4	07/21/98	31.50	7.10	24.55	0.20	---	---	---	---	---	---	---	---
MW4	10/20/98	31.50	9.03	22.60	0.17	---	---	---	---	---	---	---	---
MW4	01/27/99	31.50	5.37	26.18	0.07	---	---	---	---	---	---	---	---
MW4	Apr-99	Destroyed during construction activities.											
MW5	10/25/00	39.18	10.92	28.26	No	---	**2,500**	**<20**	---	**79**	3.8	**66**	<20
MW5	01/15/01	39.18	8.32	30.86	No	---	**3,900**	<5.0	---	**120**	7.9	**280**	**52**
MW5	04/10/01	39.18	7.21	31.97	No	---	**8,000**	**<50**	<5	**280**	4.4	**410**	**100**
MW5	07/24/01	39.18	9.54	29.64	No	---	**7,000**	<1.0	---	**360**	7.4	**380**	**67**
MW5	11/27/01	39.18	8.84	30.34	No	---	**5,000**	**8.9**	<2	**64**	11	**340**	**52**
MW5	01/18/02	41.59	6.52	35.07	No	---	**6,330**	**21.8**	---	**99.1**	2.30	**103**	19.6
MW5	04/10/02	41.59	7.20	34.39	No	---	**2,140**	<2.50	---	**275**	8.00	**183**	**24.5**
MW5	07/12/02	41.59	8.83	32.76	No	---	**3,940**	**20**	<0.50	**350**	<0.50	**268**	14
MW5	10/14/02	41.59	10.74	30.85	No	---	**4,040**	<2.5	---	**98.5**	9.0	**169**	**29.0**
MW5	01/20/03	41.59	6.45	35.14	No	---	**7,660**	**59**	<0.50	**421**	10.0	**743**	**96.0**
MW5	04/28/03	41.59	6.68	34.91	No	---	**7,510**	**47**	<0.50	**403**	5.5	**524**	**50.5**
MW5	07/15/03	41.59	8.68	32.91	No	---	**6,080**	**52.9**	<2.5	**406**	19.8	**412**	**34.7**
MW5	10/08/03	41.59	10.56	31.03	No	---	**2,460**	**54.3**	<0.5	**160**	12.8	**173**	**31.7**
MW5	01/15/04	41.59	6.56	35.03	No	---	**4,630**	**37.4**	<0.5	**181**	6.0	**312**	**38.5**
MW5	Well not sampled from 2004 to 2010.												
MW5	09/17/10	41.59	9.99	31.60	No	**5,700**	**6,600**	---	<5.0	**19**	<5.0	**16**	1.4f
MW5	12/15/10	41.86	Well resurveyed.										
MW5	09/14/11	41.86	7.33	34.53	No	**1,600g**	**7,200**	---	<2.0	**23**	<2.0	8.6	<2.0
MW5	01/18/12	41.86	9.46	32.40	No	---	**3,600g**	---	<1.0	**14**	<1.0	7.6	<1.0
MW5	01/27/12	41.86	8.81	33.05	No	**3,100g**	---	---	---	---	---	---	---
MW5	07/09/12	41.86	8.91	32.95	Sheen	**29,000g**	**9,300g**	---	<2.5	**21**	<2.5	6.9	<2.5
MW5	01/25/13	41.86	6.01	35.85	Sheen	**22,000g**	**4,900g**	---	<2.0	**46**	<2.0	4.5	<2.0
MW5	08/23/13	41.86	9.12	32.74	No	**34,000g**	**17,000**	---	<2.0	**17**	<2.0	6.3	<2.0
MW5	01/10/14	41.86	10.30	31.56	No	**36,000g**	**62,000**	---	<2.0	**4.7**	<2.0	3.5	<2.0
MW5	07/14/14	41.86	8.70	33.16	No	**88,000g**	**90,000g**	---	<5.0	**100**	<5.0	12	<5.0
MW5	08/18/14	41.86	9.40	32.46	No	---	---	---	---	---	---	---	---

TABLE 1A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Mobil Service Station 99105
6301 San Pablo Avenue
Oakland, California

Well ID	Sampling Date	TOC Elev. (feet)	DTW (feet)	GW Elev. (feet)	NAPL (feet)	TPHd (µg/L)	TPHg (µg/L)	MTBE 8020/8021 (µg/L)	MTBE 8240/8260 (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)
Environmental Screening Levels (February 2016)													
Tier 1		---	---	---	---	100	100	5	5	1	40	13	20
MW5	08/22/14	41.86	9.60	32.26	No	**5,800g**	**5,100**	---	<5.0	**520**	<5.0	**320**	**81**
MW5	11/06/14	41.86	---	---	---	---	---	---	---	---	---	---	---
MW5	01/23/15	41.86	7.30	34.56	No	**19,000g**	**3,300g**	---	<5.0	**130**	<5.0	**65**	**26**
MW5	06/26/15	41.86	---	---	---	---	---	---	---	---	---	---	---
MW5	08/14/15	41.86	9.87	31.99	Sheen	**4,900g**	**10,000g**	---	<2.0	**27**	<2.0	**24**	17
MW5	03/25/16	41.86	5.67	36.19	No	**2,300g**	**4,500g**	---	<2.0	**91**	<2.0	**23**	8.3
MW5	07/12/16	41.86	8.90	32.96	Sheen	**2,800g**	**1,500g**	---	<2.0	**54**	<2.0	12	6.0
MW6	08/18/14	42.00	Well surveyed.										
MW6	08/18/14	42.00	13.12	28.88	No	**350g**	**410g**	---	0.60	<0.50	<0.50	<0.50	<0.50
MW6	08/22/14	42.00	11.20	30.80	No	**1,000g**	**1,500g**	---	<0.50	<0.50	<0.50	<0.50	<0.50
MW6	11/06/14	42.00	10.77	31.23	No	**640g**	**840g**	---	0.80	<0.50	<0.50	<0.50	<0.50
MW6	01/23/15	42.00	7.38	34.62	No	**170g**	**120g**	---	<0.50	<0.50	<0.50	<0.50	<0.50
MW6	06/26/15	42.00	9.11	32.89	No	**160g**	**170g**	---	<0.50	<0.50	<0.50	<0.50	<0.50
MW6	08/14/15	42.00	9.89	32.11	No	91g	**120g**	---	<0.50	<0.50	<0.50	<0.50	<0.50
MW6	03/25/16	42.00	6.06	35.94	No	82g	<50	---	<0.50	<0.50	<0.50	<0.50	<0.50
MW6	07/12/16	42.00	9.09	32.91	No	**130g**	<50	---	<0.50	<0.50	<0.50	<0.50	<0.50
MW7	08/18/14	41.34	Well surveyed.										
MW7	08/18/14	41.34	13.81	27.53	No	<51	<50	---	<0.50	<0.50	<0.50	<0.50	<0.50
MW7	08/22/14	41.34	Dry	---	---	---	---	---	---	---	---	---	---
MW7	11/06/14	41.34	11.73	29.61	No	<50	<50	---	<0.50	<0.50	<0.50	<0.50	<0.50
MW7	01/23/15	41.34	10.81	30.53	No	57g	**140**	---	<0.50	**4.2**	2.8	6.4	6.1
MW7	06/26/15	41.34	10.28	31.06	No	49g	<50	---	<0.50	<0.50	<0.50	<0.50	<0.50
MW7	08/14/15	41.34	11.41	29.93	No	<47	58g	---	<0.50	<0.50	<0.50	<0.50	<0.50
MW7	03/25/16	41.34	9.72	31.62	No	55g	<50	---	<0.50	<0.50	<0.50	<0.50	<0.50
MW7	07/12/16	41.34	10.66	30.68	No	88g	<50	---	<0.50	<0.50	<0.50	<0.50	<0.50
MW8	08/18/14	41.30	Well surveyed.										
MW8	08/18/14	41.30	12.18	29.12	No	**440g**	**1,600**	---	<0.50	**39**	<0.50	**19**	**44**
MW8	08/22/14	41.30	13.10	28.20	No	**350g**	**950g**	---	<0.50	**5.7**	<0.50	4.2	6.4
MW8	11/06/14	41.30	10.96	30.34	No	**260g**	**910g**	---	<0.50	**54**	<0.50	**25**	11
MW8	01/23/15	41.30	6.83	34.47	No	**440g**	**1,000g**	---	<0.50	**110**	1.8	**19**	10
MW8	06/26/15	41.30	8.46	32.84	No	**650g**	**1,100**	---	<2.0	**100**	<2.0	**24**	6.2
MW8	08/14/15	41.30	9.85	31.45	No	**770g**	**2,000g**	---	<0.50	**92**	1.2	**14**	13
MW8	03/25/16	41.30	8.18	33.12	No	**1,200g**	**4,000g**	---	<0.50	**160**	1.6	**130**	**37**
MW8	07/12/16	41.30	7.96	33.34	Sheen	**1,500g**	**2,000**	---	<2.5	**160**	<2.5	**84**	11

TABLE 1A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Mobil Service Station 99105
6301 San Pablo Avenue
Oakland, California

Well ID	Sampling Date	TOC Elev. (feet)	DTW (feet)	GW Elev. (feet)	NAPL (feet)	TPHd (µg/L)	TPHg (µg/L)	MTBE 8020/8021 (µg/L)	MTBE 8240/8260 (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)
Environmental Screening Levels (February 2016)													
Tier 1		---	---	---	---	100	100	5	5	1	40	13	20
Grab Groundwater Samples													
Former Gasoline Tank Cavity													
TW1	01/04/96	---	6.00	---	No	**700**	ND	---	---	ND	ND	ND	ND
Used-Oil Tank Cavity													
WW1	01/04/96	---	3.00	---	No	---	ND	---	---	ND	ND	ND	ND
AB1	03/05/98	---	4.5	---	No	---	**1,600**	ND	---	**31**	5.3	**79**	**130**
AB2	03/05/98	---	8.0	---	No	---	ND	ND	---	ND	2.9	0.9	5.7
AB3	03/05/98	---	5.5	---	No	---	**6,800**	**230**	---	**680**	**100**	**1,500**	**2,300**
AB4	03/05/98	---	4.0	---	No	---	**8,500**	ND	---	**240**	ND	**260**	**720**
AB6	03/05/98	---	4.5	---	No	---	**12,000**	ND	---	**350**	ND	**310**	**100**
AB9	03/05/98	---	6.0	---	No	---	**1,000**	ND	---	**57**	12	**44**	**93**
AB10	03/05/98	---	2.0	---	No	---	**200**	ND	---	**3.0**	1.2	3.2	2.8
AB11	03/05/98	---	8.5	---	No	---	ND	ND	---	ND	ND	ND	ND
AB12	03/05/98	---	6.0	---	No	---	**8,800**	**37**	---	**660**	50	**630**	**940**
AB13	03/05/98	---	8.0	---	No	---	**210**	ND	---	**11**	0.8	10	15
HA1	01/25/00	---	---	---	---	---	**<500**	<5.0	---	<0.3	<0.3	<0.3	<0.6
B1	11/18/10	---	Dry	---	---	---	---	---	---	---	---	---	---
B2	11/19/10	---	Dry	---	---	---	---	---	---	---	---	---	---
B3	11/19/10	---	8.45	---	---	<50	<50	---	<0.50	<0.50	<0.50	0.053f	0.21f
B4	11/19/10	---	Dry	---	---	---	---	---	---	---	---	---	---
B5	11/18/10	---	8.95	---	---	<50	<50	---	<0.50	<0.50	<0.50	0.047f	0.21f
W-15-B6	06/19/12	---	15	---	---	<50	<50	---	<0.50	<0.50	<0.50	<0.50	<0.50
W-15-B7	06/19/12	---	15	---	---	<50	<50	---	<0.50	<0.50	<0.50	<0.50	<0.50
W-9.5-B8	06/19/12	---	9.5	---	---	**230g**	<50	---	<0.50	<0.50	<0.50	<0.50	<0.50

TABLE 1A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Mobil Service Station 99105
6301 San Pablo Avenue
Oakland, California

Notes:	Adapted from ETIC's *Report of Groundwater Monitoring, Third Quarter 2010* .	
TOC Elev.	=	Top of casing elevation.
DTW	=	Depth to water.
GW Elev.	=	Groundwater elevation.
NAPL	=	Non-aqueous phase liquid.
TPHd	=	Total petroleum hydrocarbons as diesel analyzed using EPA Method 8015B.
TPHg	=	Total petroleum hydrocarbons as gasoline analyzed using EPA Method 8015B.
MTBE 8020/8021	=	Methyl tertiary butyl ether analyzed using EPA Method 8020 or 8021B.
MTBE 8240/8260	=	Methyl tertiary butyl ether analyzed using EPA Method 8260B or 8240.
BTEX	=	Benzene, toluene, ethylbenzene, and total xylenes analyzed using EPA Method 8260B.
DIPE	=	Di-isopropyl ether analyzed using EPA Method 8260B.
ETBE	=	Ethyl tertiary butyl ether analyzed using EPA Method 8260B.
TAME	=	Tertiary amyl methyl ether analyzed using EPA Method 8260B.
TBA	=	Tertiary butyl alcohol analyzed using EPA Method 8260B.
1,2-DCA	=	1,2-dichloroethane analyzed using EPA Method 8260B.
EDB	=	1,2-dibromoethane analyzed using EPA Method 8260B.
Ethanol	=	Ethanol analyzed using EPA Method 8260B.
ND	=	Not detected at or above the laboratory reporting limit.
µg/L	=	Micrograms per liter.
<	=	Less than the stated laboratory reporting limit.
---	=	Not analyzed/Not applicable.
a	=	Well sampled using no-purge method.
b	=	Diesel and unidentified hydrocarbons <C15.
c	=	Diesel and unidentified hydrocarbons <C15>C25.
d	=	Diesel and unidentified hydrocarbons >C20.
e	=	Unidentified hydrocarbons >C18.
f	=	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit.
g	=	Chromatographic pattern does not match that of the specified standard.

TABLE 1B
ADDITIONAL CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Mobil Service Station 99105
6301 San Pablo Avenue
Oakland, California

Well ID	Sampling Date		DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TBA (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Ethanol (µg/L)
Environmental Screening Levels (February 2016)									
Tier 1			---	---	---	12	0.50	0.05	---
MW1	03/14/96	- 01/27/99	Not analyzed for these analytes						
MW1	Apr-99		Destroyed during construction activities.						
MW2	03/14/96	- 01/15/04	Not analyzed for these analytes						
MW2	09/17/10		<0.50	<0.50	<0.50	<10	<0.50	**<0.50**	---
MW2	09/14/11		<0.50	<0.50	<0.50	<5.0	<0.50	**<0.50**	<50
MW2	01/18/12		<0.50	<0.50	<0.50	<5.0	<0.50	**<0.50**	<50
MW2	01/27/12		---	---	---	---	---	---	---
MW2	07/09/12		<0.50	<0.50	<0.50	<5.0	<0.50	**<0.50**	---
MW2	01/25/13		<0.50	<0.50	<0.50	<5.0	<0.50	**<0.50**	---
MW2	08/23/13		<0.50	<0.50	<0.50	<5.0	<0.50	**<0.50**	---
MW2	01/10/14		<0.50	<0.50	<0.50	<5.0	<0.50	**<0.50**	---
MW2	07/14/14		<0.50	<0.50	<0.50	<5.0	<0.50	**<0.50**	---
MW2	08/18/14		---	---	---	---	---	---	---
MW2	08/22/14		---	---	---	---	---	---	---
MW2	11/06/14		---	---	---	---	---	---	---
MW2	01/23/15		<0.50	<0.50	<0.50	<5.0	<0.50	**<0.50**	---
MW2	06/26/15		---	---	---	---	---	---	---
MW2	08/14/15		<0.50	<0.50	<0.50	<5.0	<0.50	**<0.50**	---
MW2	03/25/16		<0.50	<0.50	<0.50	<5.0	<0.50	**<0.50**	---
MW2	07/12/16		<0.50	<0.50	<0.50	<5.0	<0.50	**<0.50**	---
MW3	03/14/96	- 01/15/04	Not analyzed for these analytes						
MW3	09/17/10		0.17f	<0.50	<0.50	9.8f	**1.9**	**<0.50**	---
MW3	09/14/11		<0.50	<0.50	<0.50	<5.0	<0.50	**<0.50**	<50
MW3	01/18/12		<0.50	<0.50	<0.50	**23**	<0.50	**<0.50**	<50
MW3	01/27/12		---	---	---	---	---	---	---
MW3	07/09/12		<0.50	<0.50	<0.50	9.1	**1.1**	**<0.50**	---
MW3	01/25/13		<0.50	<0.50	<0.50	9.6	**1.1**	**<0.50**	---
MW3	08/23/13		<0.50	<0.50	<0.50	7.2	**0.90**	**<0.50**	---
MW3	01/10/14		<0.50	<0.50	<0.50	**12**	**1.1**	**<0.50**	---
MW3	07/14/14		<0.50	<0.50	<0.50	11	**1.1**	**<0.50**	---
MW3	08/18/14		---	---	---	---	---	---	---
MW3	08/22/14		---	---	---	---	---	---	---
MW3	11/06/14		---	---	---	---	---	---	---
MW3	01/23/15		<0.50	<0.50	<0.50	8.1	**0.70**	**<0.50**	---
MW3	06/26/15		---	---	---	---	---	---	---
MW3	08/14/15		<0.50	<0.50	<0.50	<5.0	**1.3**	**<0.50**	---
MW3	03/25/16		<0.50	<0.50	<0.50	<5.0	**1.0**	**<0.50**	---

TABLE 1B
ADDITIONAL CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Mobil Service Station 99105
6301 San Pablo Avenue
Oakland, California

Well ID	Sampling Date		DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TBA (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Ethanol (µg/L)
Environmental Screening Levels (February 2016)									
Tier 1			---	---	---	12	0.50	0.05	---
MW3	07/12/16		<0.50	<0.50	<0.50	5.5	1.1	**<0.50**	---
MW4	03/14/96	- 01/27/99	Not analyzed for these analytes						
MW4	Apr-99		Destroyed during construction activities.						
MW5	10/25/00	- 01/15/04	Not analyzed for these analytes						
MW5	09/17/10		<5.0	<5.0	<5.0	**<100**	**<5.0**	**<5.0**	---
MW5	09/14/11		<2.0	<2.0	<2.0	**25**	**<2.0**	**<2.0**	<200
MW5	01/18/12		<1.0	<1.0	<1.0	**37**	**<1.0**	**<1.0**	<100
MW5	01/27/12		---	---	---	---	---	---	---
MW5	07/09/12		<2.5	<2.5	<2.5	**36**	**<2.5**	**<2.5**	---
MW5	01/25/13		<2.0	<2.0	<2.0	**45**	**<2.0**	**<2.0**	---
MW5	08/23/13		<2.0	<2.0	<2.0	**42**	**<2.0**	**<2.0**	---
MW5	01/10/14		<2.0	<2.0	<2.0	**36**	**<2.0**	**<2.0**	---
MW5	07/14/14		<5.0	<5.0	<5.0	**<50**	**<5.0**	**<5.0**	---
MW5	08/18/14		---	---	---	---	---	---	---
MW5	08/22/14		<5.0	<5.0	<5.0	**<50**	**<5.0**	**<5.0**	---
MW5	11/06/14		---	---	---	---	---	---	---
MW5	01/23/15		<5.0	<5.0	<5.0	**<50**	**<5.0**	**<5.0**	---
MW5	06/26/15		---	---	---	---	---	---	---
MW5	08/14/15		<2.0	<2.0	<2.0	**23**	**<2.0**	**<2.0**	---
MW5	03/25/16		<2.0	<2.0	<2.0	**<20**	**<2.0**	**<2.0**	---
MW5	07/12/16		<2.0	<2.0	<2.0	**<20**	<2.0	**<2.0**	---
MW6	08/18/14		<0.50	<0.50	<0.50	**14**	**1.1**	**<0.50**	---
MW6	08/22/14		<0.50	<0.50	<0.50	**12**	<0.50	**<0.50**	---
MW6	11/06/14		<0.50	<0.50	<0.50	**14**	**1.3**	**<0.50**	---
MW6	01/23/15		<0.50	<0.50	<0.50	6.7	<0.50	**<0.50**	---
MW6	06/26/15		<0.50	<0.50	<0.50	<5.0	<0.50	**<0.50**	---
MW6	08/14/15		<0.50	<0.50	<0.50	<5.0	**0.59**	**<0.50**	---
MW6	03/25/16		<0.50	<0.50	<0.50	<5.0	<0.50	**<0.50**	---
MW6	07/12/16		<0.50	<0.50	<0.50	<5.0	<0.50	**<0.50**	---
MW7	08/18/14		<0.50	<0.50	<0.50	**21**	**3.1**	**<0.50**	---
MW7	08/22/14		Dry	---	---	---	---	---	---
MW7	11/06/14		<0.50	<0.50	<0.50	**15**	**3.9**	**<0.50**	---
MW7	01/23/15		<0.50	<0.50	<0.50	**23**	**5.1**	**<0.50**	---
MW7	06/26/15		<0.50	<0.50	<0.50	11	**3.4**	**<0.50**	---
MW7	08/14/15		<0.50	<0.50	<0.50	6.6	**2.5**	**<0.50**	---

TABLE 1B
ADDITIONAL CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Mobil Service Station 99105
6301 San Pablo Avenue
Oakland, California

Well ID	Sampling Date	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TBA (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Ethanol (µg/L)
Environmental Screening Levels (February 2016)								
Tier 1		---	---	---	12	0.50	0.05	---
MW7	03/25/16	<0.50	<0.50	<0.50	9.5	**1.9**	**<0.50**	---
MW7	07/12/16	<0.50	<0.50	<0.50	10	2.0	**<0.50**	---
MW8	08/18/14	<0.50	<0.50	<0.50	**20**	**0.78**	**<0.50**	---
MW8	08/22/14	<0.50	<0.50	<0.50	**31**	<0.50	**<0.50**	---
MW8	11/06/14	<0.50	<0.50	<0.50	**34**	**2.8**	**<0.50**	---
MW8	01/23/15	<0.50	<0.50	<0.50	**20**	<0.50	**<0.50**	---
MW8	06/26/15	<2.0	<2.0	<2.0	**20**	**<2.0**	**<2.0**	---
MW8	08/14/15	<0.50	<0.50	<0.50	**15**	<0.50	**<0.50**	---
MW8	03/25/16	<0.50	<0.50	<0.50	**17**	<0.50	**<0.50**	---
MW8	07/12/16	<2.5	<2.5	<2.5	**29**	<2.5	**<2.5**	---
Grab Groundwater Samples								
Not analyzed for these analytes prior to 2010.								
B1	11/18/10	---	---	---	---	---	---	---
B3	11/19/10	---	---	---	---	**8.7**	---	---
B4	11/19/10	---	---	---	---	---	---	---
B5	11/18/10	---	---	---	---	0.099f	---	---
W-15-B6	06/19/12	<0.50	<0.50	<0.50	<5.0	---	---	---
W-15-B7	06/19/12	<0.50	<0.50	<0.50	<5.0	---	---	---
W-9.5-B8	06/19/12	<0.50	<0.50	<0.50	<5.0	---	---	---

TABLE 1B
ADDITIONAL CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Mobil Service Station 99105
6301 San Pablo Avenue
Oakland, California

Notes:		Adapted from ETIC's *Report of Groundwater Monitoring, Third Quarter 2010* .
TOC Elev.	=	Top of casing elevation.
DTW	=	Depth to water.
GW Elev.	=	Groundwater elevation.
NAPL	=	Non-aqueous phase liquid.
TPHd	=	Total petroleum hydrocarbons as diesel analyzed using EPA Method 8015B.
TPHg	=	Total petroleum hydrocarbons as gasoline analyzed using EPA Method 8015B.
MTBE 8020/8021	=	Methyl tertiary butyl ether analyzed using EPA Method 8020 or 8021B.
MTBE 8240/8260	=	Methyl tertiary butyl ether analyzed using EPA Method 8260B or 8240.
BTEX	=	Benzene, toluene, ethylbenzene, and total xylenes analyzed using EPA Method 8260B.
DIPE	=	Di-isopropyl ether analyzed using EPA Method 8260B.
ETBE	=	Ethyl tertiary butyl ether analyzed using EPA Method 8260B.
TAME	=	Tertiary amyl methyl ether analyzed using EPA Method 8260B.
TBA	=	Tertiary butyl alcohol analyzed using EPA Method 8260B.
1,2-DCA	=	1,2-dichloroethane analyzed using EPA Method 8260B.
EDB	=	1,2-dibromoethane analyzed using EPA Method 8260B.
Ethanol	=	Ethanol analyzed using EPA Method 8260B.
ND	=	Not detected at or above the laboratory reporting limit.
µg/L	=	Micrograms per liter.
<	=	Less than the stated laboratory reporting limit.
---	=	Not analyzed/Not applicable.
a	=	Well sampled using no-purge method.
b	=	Diesel and unidentified hydrocarbons <C15.
c	=	Diesel and unidentified hydrocarbons <C15>C25.
d	=	Diesel and unidentified hydrocarbons >C20.
e	=	Unidentified hydrocarbons >C18.
f	=	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit.
g	=	Chromatographic pattern does not match that of the specified standard.

TABLE 2
WELL CONSTRUCTION DETAILS
Former Mobil Service Station 99105
6301 San Pablo Avenue
Oakland, California

Well ID	Well Installation Date	Well Destruction Date	TOC Elevation (feet)	Well Casing Material	Total Depth (feet)	Well Depth (feet)	Borehole Diameter (inches)	Casing Diameter (inches)	Screened Interval (feet)	Slot Size (inches)	Filter Pack Interval (feet)	Filter Pack Material
MW1	03/01/96	Apr-99	32.79	PVC	21.5	21.5	10	4	5-20	0.010	4.5-21.5	#12 Sand
MW2	03/01/96	---	42.24	PVC	21.5	21.5	10	4	5-20	0.010	4.5-21.5	#12 Sand
MW3	03/01/96	---	42.18	PVC	21.5	21.5	10	4	5-20	0.010	4.5-21.5	#12 Sand
MW4	03/01/96	Apr-99	31.50	PVC	26.5	25	10	4	5-25	0.010	4.5-21.5	#12 Sand
MW5	09/06/00	---	41.86	PVC	21.5	21.5	10	4	5-20	0.010	4-21.5	#2/12 Sand
MW6	08/11/14	---	42.00	PVC	18	15	12	4	5-15	0.020	4-15	#2/12 Sand
MW7	08/11/14	---	41.34	PVC	16	15	10	2	5-15	0.020	4-15	#2/12 Sand
MW8	08/15/14	---	41.30	PVC	16	15	12	4	5-15	0.020	4-15	#2/12 Sand
VW1	11/01/10	---	---	Stainless Steel	6	6	4	0.25	5.25-5.75	0.0057	5-6	#2/12 Sand
VW2	11/02/10	---	---	Stainless Steel	6	6	4	0.25	5.25-5.75	0.0057	5-6	#2/12 Sand
VW3	11/01/10	---	---	Stainless Steel	6	6	4	0.25	5.25-5.75	0.0057	5-6	#2/12 Sand
VW4	11/02/10	---	---	Stainless Steel	6	6	4	0.25	5.25-5.75	0.0057	5-6	#2/12 Sand
VW5	11/02/10	---	---	Stainless Steel	6	6	4	0.25	5.25-5.75	0.0057	5-6	#2/12 Sand
MP1	11/16/98	1998	---	PVC	23	23	1.5	1	4-23	0.020	2.5-23	#3 Sand
MP2	11/16/98	1998	---	PVC	20	20	1.5	1	5-20	0.020	4-20	#3 Sand
MP3	11/16/98	1998	---	PVC	18	18	1.5	1	3-18	0.020	2-18	#3 Sand
MP4	11/16/98	1998	---	PVC	18	18	1.5	1	3-18	0.020	2-18	#3 Sand
MP5	11/16/98	1998	---	PVC	18	18	1.5	1	3-18	0.020	2-18	#3 Sand
MP6	11/16/98	1998	---	PVC	17.5	17.5	1.5	1	3.5-17.5	0.020	2.5-17.5	#3 Sand
SVS1	06/18/12	---	38.78	PVC/Stainless Steel	5.5	5	3.25	0.25	4.75-5	0.010	4.5-5	#3 Sand
SVS2	06/18/12	---	41.05	PVC/Stainless Steel	5.5	5	3.25	0.25	4.75-5	0.010	4.5-5	#3 Sand
SVS3	06/18/12	---	42.64	PVC/Stainless Steel	5.5	5	3.25	0.25	4.75-5	0.010	4.5-5	#3 Sand

Notes:
TOC = Top of casing.
PVC = Polyvinyl chloride.
--- = Not applicable/Not available.

TABLE 3
CUMULATIVE SOIL ANALYTICAL DATA
Former Mobil Service Station 99105
6301 San Pablo Avenue
Oakland, California

Sample ID	Sample Date	Depth (feet bgs)	TPHd (mg/kg)	TPHg (mg/kg)	MTBE 8021 (mg/kg)	MTBE 8260B (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	TBA (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	1,2-DCA (mg/kg)	EDB (mg/kg)	Naphthalene (mg/kg)	Lead (mg/kg)	TOG (mg/kg)
Environmental Screening Levels, Tier 1 (February 2016)																			
Tier 1			240	100	0.023	0.023	0.044	2.9	1.4	2.3	0.075	---	---	---	0.0045	0.00033	0.023	80	---
Monitoring, Remediation, and Soil Vapor Well Samples																			
MW1	03/01/96	5 - 5.5	3.4	<1.0	---	---	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---	---	---	---	<2.5	---
MW1	03/01/96	10 - 10.5	<1.0	<1.0	---	---	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---	---	---	---	<2.5	---
MW1	03/01/96	15 - 15.5	4.2	<1.0	---	---	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---	---	---	---	<2.5	---
MW2	03/01/96	5 - 5.5	2.4	<1.0	---	---	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---	---	---	---	<2.5	---
MW2	03/01/96	10 - 10.5	57	**220**	---	---	**1.2**	1.4	**2.7**	**14**	---	---	---	---	---	---	---	<2.5	---
MW2	03/01/96	15 - 15.5	<1.0	<1.0	---	---	<0.0050	<0.0050	0.0063	0.035	---	---	---	---	---	---	---	<2.5	---
MW3	03/01/96	5.5 - 6	1.1	<1.0	---	---	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---	---	---	---	<2.5	9
MW3	03/01/96	10.5 - 11	72	53	---	---	0.032	0.43	0.65	0.93	---	---	---	---	---	---	---	<2.5	290
MW3	03/01/96	15.5 - 16	<1.0	<1.0	---	---	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---	---	---	---	<2.5	10
MW4	03/01/96	5.5 - 6	34	280	---	---	1.2	1	4.1	19	---	---	---	---	---	---	---	<2.5	---
MW4	03/01/96	10.5 - 11	7.7	6	---	---	**0.11**	<0.0050	0.11	0.093	---	---	---	---	---	---	---	<2.5	---
MW4	03/01/96	15.5 - 16	2.1	6	---	---	**0.076**	0.023	0.083	0.07	---	---	---	---	---	---	---	<2.5	---
S-5-MW6	08/11/14	5	83b,c	<0.53	---	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.049	<0.0099	<0.0099	<0.0099	**<0.0049**	**<0.0049**	**<0.049**	---	---
S-10-MW6	08/11/14	10	47b,c	4.4c	---	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.052	<0.010	<0.010	<0.010	**<0.0052**	**<0.0052**	**<0.052**	---	---
S-15-MW6	08/11/14	15	<4.9b	2.2c	---	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.048	<0.0095	<0.0095	<0.0095	**<0.0048**	**<0.0048**	---	---	---
S-5-MW7	08/11/14	5	<5.0b	<0.48	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	**<0.0050**	**<0.0050**	**<0.050**	---	---
S-10-MW7	08/11/14	10	<5.0b	<0.49	---	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.049	<0.0098	<0.0098	<0.0098	**<0.0049**	**<0.0049**	**<0.049**	---	---
S-15-MW7	08/11/14	15	<5.0b	<0.49	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	**<0.0050**	**<0.0050**	---	---	---
S-5-MW8	08/15/14	5	<5.0b	<0.50	---	<0.0048	0.0051	<0.0048	<0.0048	<0.0048	<0.048	<0.0096	<0.0096	<0.0096	**<0.0048**	**<0.0048**	**<0.048**	---	---
S-8-MW8	08/15/14	8	41b,c	22	---	<0.50	<0.50	<0.50	**3.4**	2.1	<5.0	<0.99	<0.99	<0.99	**<0.50**	**<0.50**	**<5.0**	---	---
S-10-MW8	08/15/14	10	<5.0b	3.3	---	<0.0051	0.044	<0.0051	0.17	0.15	<0.051	<0.010	<0.010	<0.010	**<0.0051**	**<0.0051**	**0.15**	---	---
S-15-MW8	08/15/14	15	<5.0b	<0.48	---	<0.0052	0.032	<0.0052	<0.0052	<0.0052	<0.052	<0.010	<0.010	<0.010	**<0.0052**	**<0.0052**	**<0.052**	---	---
VW1	11/01/10	5.5-6	<5.0b	<0.50	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.050	<0.010	<0.010	<0.010	**<0.0050**	**<0.0050**	---	---	---
VW2	11/02/10	5.5-6	<5.0b	<0.50	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.050	<0.010	<0.010	<0.010	**<0.0050**	**<0.0050**	---	---	---
VW3	11/01/10	5.5-6	<5.0b	<0.50	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.050	<0.010	<0.010	<0.010	**<0.0050**	**<0.0050**	---	---	---
VW4	11/02/10	5.5-6	<5.0b	3.7c	---	<0.0050	<0.0050	<0.0050	0.0050	0.0050a	<0.050	<0.010	<0.010	<0.010	**<0.0050**	**<0.0050**	---	---	---
VW5	11/02/10	5.5-6	<5.0b	<0.50	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.050	<0.010	<0.010	<0.010	**<0.0050**	**<0.0050**	---	---	---
S-5-SVS1	06/18/12	5	<5.0b	<0.50	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	---	---	---	---	---
S-5-SVS2	06/18/12	5	<5.0b	<0.50	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	---	---	---	---	---
S-5-SVS3	06/18/12	5	<5.0b	<0.50	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	---	---	---	---	---

TABLE 3
CUMULATIVE SOIL ANALYTICAL DATA
Former Mobil Service Station 99105
6301 San Pablo Avenue
Oakland, California

Sample ID	Sample Date	Depth (feet bgs)	TPHd (mg/kg)	TPHg (mg/kg)	MTBE 8021 (mg/kg)	MTBE 8260B (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	TBA (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	1,2-DCA (mg/kg)	EDB (mg/kg)	Naphthalene (mg/kg)	Lead (mg/kg)	TOG (mg/kg)
Environmental Screening Levels, Tier 1 (February 2016)																			
Tier 1			240	100	0.023	0.023	0.044	2.9	1.4	2.3	0.075	---	---	---	0.0045	0.00033	0.023	80	---
Borings																			
AB-1	03/05/98	5 - 6	---	ND	ND	---	ND	ND	ND	ND	---	---	---	---	---	---	---	---	---
AB-2	03/05/98	4 - 5	---	ND	ND	---	ND	ND	ND	ND	---	---	---	---	---	---	---	---	---
AB-3	03/05/98	5.5	---	ND	ND	---	ND	ND	ND	ND	---	---	---	---	---	---	---	---	---
AB-4	03/05/98	5 - 6	---	18	ND	---	ND	ND	ND	ND	---	---	---	---	---	---	---	---	---
AB-5	03/05/98	3 - 4	---	170	ND	---	ND	ND	0.65	ND	---	---	---	---	---	---	---	---	---
AB-6	03/05/98	5	---	**230**	ND	---	ND	ND	ND	ND	---	---	---	---	---	---	---	---	---
AB-7	03/05/98	4-5	---	19	ND	---	ND	ND	0.032	ND	---	---	---	---	---	---	---	---	---
AB-8	03/05/98	5	---	ND	ND	---	ND	ND	ND	ND	---	---	---	---	---	---	---	---	---
AB-9	03/05/98	4	---	16	ND	---	0.006	ND	0.028	ND	---	---	---	---	---	---	---	---	---
AB-10	03/05/98	4	---	ND	ND	---	ND	ND	ND	ND	---	---	---	---	---	---	---	---	---
AB-11	03/05/98	5 - 6	---	3.9	ND	---	ND	ND	ND	ND	---	---	---	---	---	---	---	---	---
AB-12	03/16/98	5 - 6	---	ND	ND	---	ND	ND	ND	ND	---	---	---	---	---	---	---	---	---
AB-13	03/16/98	5 - 6	---	ND	ND	---	ND	ND	ND	ND	---	---	---	---	---	---	---	---	---
MP-1	11/16/98	7.5	---	10	ND	---	ND	0.007	0.013	ND	---	---	---	---	---	---	---	---	---
MP-2	11/16/98	7	---	**270**	ND	---	ND	0.03	0.29	2.1	---	---	---	---	---	---	---	---	---
MP-2	11/16/98	10.5	---	140	**0.15**	---	**0.08**	ND	0.31	ND	---	---	---	---	---	---	---	---	---
MP-3	11/16/98	7.5	---	**230**	**0.28**	---	ND	0.1	**1.6**	ND	---	---	---	---	---	---	---	---	---
MP-4	11/16/98	5	---	**120**	**0.19**	---	ND	ND	0.35	ND	---	---	---	---	---	---	---	---	---
MP-4	11/16/98	10	---	18	ND	---	ND	0.013	0.07	0.086	---	---	---	---	---	---	---	---	---
MP-5	11/16/98	6.5	---	6.4	ND	---	ND	ND	0.015	0.022	---	---	---	---	---	---	---	---	---
MP-5	11/16/98	10.5	---	**220**	**0.52**	---	ND	ND	**1.4**	**3**	---	---	---	---	---	---	---	---	---
MP-6	11/16/98	7	---	ND	ND	---	ND	ND	ND	ND	---	---	---	---	---	---	---	---	---
MP-6	11/16/98	10	---	240	**0.92**	ND	ND	ND	**1.6**	**4.2**	---	---	---	---	---	---	---	---	---
HA-1	01/25/00	5	---	<0.50	**<0.025**	---	<0.0050	<0.0050	<0.0050	<0.010	---	---	---	---	---	---	---	---	---
B1	11/17/10	5-5.5	<5.0b	<0.50	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	**<0.0050**	**<0.0050**	---	---	---

TABLE 3
CUMULATIVE SOIL ANALYTICAL DATA
Former Mobil Service Station 99105
6301 San Pablo Avenue
Oakland, California

Sample ID	Sample Date	Depth (feet bgs)	TPHd (mg/kg)	TPHg (mg/kg)	MTBE 8021 (mg/kg)	MTBE 8260B (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	TBA (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	1,2-DCA (mg/kg)	EDB (mg/kg)	Naphthalene (mg/kg)	Lead (mg/kg)	TOG (mg/kg)
Environmental Screening Levels, Tier 1 (February 2016)																			
Tier 1			240	100	0.023	0.023	0.044	2.9	1.4	2.3	0.075	---	---	---	0.0045	0.00033	0.023	80	---
B1	11/18/10	9.5-10	<5.0b	<0.50	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	**<0.0050**	**<0.0050**	---	---	---
B1	11/18/10	14.5-15	<5.0b	<0.50	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	**<0.0050**	**<0.0050**	---	---	---
B1	11/18/10	19.5-20	<5.0b	<0.50	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	**<0.0050**	**<0.0050**	---	---	---
B1	11/18/10	24.5-25	<5.0b	<0.50	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	**<0.0050**	**<0.0050**	---	---	---
B2	11/17/10	5-5.5	<5.0b	<0.50	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	**<0.0050**	**<0.0050**	---	---	---
B2	11/18/10	8.5-9	<5.0b	<0.50	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	**<0.0050**	**<0.0050**	---	---	---
B2	11/19/10	14.5-15	<5.0b	<0.50	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	**<0.0050**	**<0.0050**	---	---	---
B2	11/19/10	19.5-20	<5.0b	<0.50	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	**<0.0050**	**<0.0050**	---	---	---
B3	11/17/10	5-5.5	<5.0b	<0.50	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	**<0.0050**	**<0.0050**	---	---	---
B3	11/18/10	9.5-10	<5.0b	<0.50	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	**<0.0050**	**<0.0050**	---	---	---
B3	11/19/10	12-12.5	<5.0b	<0.50	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	**<0.0050**	**<0.0050**	---	---	---
B3	11/19/10	14.5-15	<5.0b	<0.50	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	**<0.0050**	**<0.0050**	---	---	---
B3	11/19/10	17-17.5	<5.0b	<0.50	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	**<0.0050**	**<0.0050**	---	---	---
B3	11/19/10	19.5-20	<5.0b	<0.50	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	**<0.0050**	**<0.0050**	---	---	---
B4	11/17/10	5-5.5	<5.0b	<0.50	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	**<0.0050**	**<0.0050**	---	---	---
B4	11/18/10	9.5-10	<5.0b	<0.50	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	**<0.0050**	**<0.0050**	---	---	---
B4	11/19/10	14.5-15	<5.0b	<0.50	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	**<0.0050**	**<0.0050**	---	---	---
B4	11/19/10	19.5-20	<5.0b	<0.50	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	**<0.0050**	**<0.0050**	---	---	---
B5	11/17/10	5-5.5	<5.0b	<0.50	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	**<0.0050**	**<0.0050**	---	---	---
B5	11/18/10	9.5-10	<5.0b	<0.50	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	**<0.0050**	**<0.0050**	---	---	---
B5	11/19/10	14.5-15	<5.0b	<0.50	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	**<0.0050**	**<0.0050**	---	---	---
B5	11/19/10	19.5-20	<5.0b	<0.50	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	**<0.0050**	**<0.0050**	---	---	---
Tank Excavation Samples																			
S-1	08/05/94	11	---	6.5	---	---	**0.18**	0.082	0.37	1.2	---	---	---	---	---	---	---	---	---
S-2	08/05/94	11	---	3.2	---	---	**0.11**	<0.050	0.16	0.21	---	---	---	---	---	---	---	---	---
S-3	08/05/94	11	---	**540**	---	---	**<1.5**	**4.1**	**24**	**72**	---	---	---	---	---	---	---	---	---
S-4	08/05/94	11	---	73	---	---	**<0.067**	0.21	**1.5**	**6.8**	---	---	---	---	---	---	---	---	---
S-5	08/05/94	11	---	0.84	---	---	**<0.050**	<0.050	<0.050	0.031	---	---	---	---	---	---	---	---	---
S-6	08/05/94	11	---	40	---	---	<0.014	0.059	0.25	0.6	---	---	---	---	---	---	---	---	---
TS-1	01/04/96	4	21	3.8	---	---	<0.005	0.0085	<0.005	<0.005	---	---	---	---	---	---	---	<2.5	---
TS-2	01/04/96	4	20	<1.0	---	---	<0.005	<0.005	<0.005	0.0053	---	---	---	---	---	---	---	<2.5	---
TS-3	01/04/96	4	44	9.5	---	---	**0.11**	0.28	0.019	0.021	---	---	---	---	---	---	---	**160**	---
TS-4	01/04/96	5	1.8	1.7	---	---	<0.005	0.014	0.0081	0.0086	---	---	---	---	---	---	---	<2.5	---
TS-5	01/04/96	5	2.0	<1.0	---	---	<0.005	<0.005	<0.005	<0.005	---	---	---	---	---	---	---	<2.5	---
TS-6	01/04/96	4	2.0	<1.0	---	---	<0.005	0.0095	<0.005	0.015	---	---	---	---	---	---	---	86	---
TPSW-1	02/14/96	---	160	**640**	---	---	<0.0050	0.32	**6.5**	**36**	---	---	---	---	---	---	---	5.3	---
TPSE-1	02/14/96	---	160	93	---	---	<0.0050	<0.0050	0.43	**2.7**	---	---	---	---	---	---	---	5.8	---
Used-Oil UST Excavation Samples																			
WO-1	08/05/94	6	1.2	21	---	---	<0.015	0.11	0.34	1.5	---	---	---	---	---	---	---	4.3	94
S-WON	01/04/96	3	2.9	<1.0	---	---	<0.005	<0.005	<0.005	<0.005	---	---	---	---	---	---	---	30	8.5

TABLE 3
CUMULATIVE SOIL ANALYTICAL DATA
Former Mobil Service Station 99105
6301 San Pablo Avenue
Oakland, California

Sample ID	Sample Date	Depth (feet bgs)	TPHd (mg/kg)	TPHg (mg/kg)	MTBE 8021 (mg/kg)	MTBE 8260B (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	TBA (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	1,2-DCA (mg/kg)	EDB (mg/kg)	Naphthalene (mg/kg)	Lead (mg/kg)	TOG (mg/kg)
Environmental Screening Levels, Tier 1 (February 2016)																			
Tier 1			240	100	0.023	0.023	0.044	2.9	1.4	2.3	0.075	---	---	---	0.0045	0.00033	0.023	80	---
S-WOS	01/04/96	3	1.6	<1.0	---	---	<0.005	<0.005	<0.005	0.095	---	---	---	---	---	---	---	28	10
Product Line Samples																			
PL1-1	02/14/96	3.0	14	<1.0	---	---	<0.0050	<0.0050	<0.005	<0.0050	---	---	---	---	---	---	---	11	---
PL1-2	02/14/96	2.5	<1.0	<1.0	---	---	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---	---	---	---	5.0	---
PL1-3	02/15/96	2.5	37	**240**	---	---	**0.24**	0.59	1.1	1.3	---	---	---	---	---	---	---	6.5	---
PL1-5	02/15/96	2	4.9	63	---	---	**0.30**	0.42	0.31	0.41	---	---	---	---	---	---	---	8.2	---
PL4-1	02/14/96	3.0	7.7	1.4	---	---	0.056	0.078	0.0073	0.0420	---	---	---	---	---	---	---	9.9	---
PL4-2	02/15/96	2.5	<1.0	<1.0	---	---	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---	---	---	---	5.5	---
PL4-3	02/15/96	5	3.0	4.3	---	---	0.0086	0.0075	0.040	0.058	---	---	---	---	---	---	---	6.3	---
PL4-4	02/15/96	5.0	3.2	<1.0	---	---	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---	---	---	---	4.6	---
Soil Stockpile Samples																			
WO-(1-2) d	01/04/96	---	38	<1.0	---	---	<0.005	<0.005	<0.005	<0.005	---	---	---	---	---	---	---	20	240
SPPL4-(1-4)	03/01/96	---	11	9	---	---	0.013	0.03	0.13	0.054	---	---	---	---	---	---	---	<2.5	---
Comp-1	01/25/00	---	---	<0.50	<0.025	---	<0.0050	<0.0050	<0.0050	<0.010	---	---	---	---	---	---	---	8.04	---
S-SP1-1	06/19/12	---	<5.0	<0.50	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	<0.0050	<0.0050	---	16.1	---
S-SP1-2	06/19/12	---	<5.0	<0.50	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	<0.0050	<0.0050	---	24.4	---
S-SP1-3	06/19/12	---	5.7	<0.50	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	<0.0050	<0.0050	---	12.7	---
S-SP1-4	06/19/12	---	<5.0	<0.50	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	<0.0050	<0.0050	---	21.5	---
SP1	08/11/14	---	<4.9b	0.91c	---	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.049	<0.0098	<0.0098	<0.0098	<0.0049	<0.0049	<0.049	9.74	---

Notes:

TPHd	=	Total petroleum hydrocarbons as diesel analyzed using EPA Method 8015B.
TPHg	=	Total petroleum hydrocarbons as gasoline analyzed using EPA Method 8015B.
MTBE 8021	=	Methyl tertiary butyl ether analyzed using EPA Method 8020 or 8021B.
MTBE 8260B	=	Methyl tertiary butyl ether analyzed using EPA Method 8260B.
BTEX	=	Benzene, toluene, ethylbenzene, and total xylenes analyzed using EPA Method 8260B.
TBA	=	Tertiary butyl alcohol analyzed using EPA Method 8260B.
DIPE	=	Di-isopropyl ether analyzed using EPA Method 8260B.
ETBE	=	Ethyl tertiary butyl ether analyzed using EPA Method 8260B.
TAME	=	Tertiary amyl methyl ether analyzed using EPA Method 8260B.
1,2-DCA	=	1,2-dichloroethane analyzed using EPA Method 8260B.
EDB	=	1,2-dibromoethane analyzed using EPA Method 8260B.
TOG	=	Total oil and grease.
Green	=	Soil has been excavated.
ND	=	Not detected at or above the laboratory reporting limit.
feet bgs	=	Feet below ground surface.
mg/kg	=	Milligrams per kilogram.
<	=	Less than the stated laboratory reporting limit.
---	=	Not analyzed/Not sampled/Not applicable.
a	=	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
b	=	The sample extract was subjected to Silica Gel treatment prior to analysis.
c	=	The chromatographic pattern does not match that of the specified standard.
d	=	Additional analysis: cadmium (<0.0250 mg/kg), chromium (12 mg/kg), lead (4.3 mg/kg), nickel (38 mg/kg), and zinc (71 mg/kg).

TABLE 4
CUMULATIVE SOIL VAPOR ANALYTICAL DATA
Former Mobil Service Station 99105
6301 San Pablo Avenue
Oakland, California
(Page 1 of 2)

Well ID		Sample Date		Depth (feet bgs)	O_2 + A (%V)	Methane (%V)	CO_2 (%V)	Helium (%V)	Vacuum (%V)	TPHg (µg/m^3)	MTBE (µg/m^3)	B (µg/m^3)	T (µg/m^3)	E (µg/m^3)	X (µg/m^3)	1,2-DCA (µg/m^3)	EDB (µg/m^3)	TBA (µg/m^3)	Ethanol (µg/m^3)	Add'l VOCs (µg/m^3)
Environmental Screening Levels, Subslab/Soil Gas, Table SG-1 (February 2016)																				
Residential Land Use					---	---	---	---	---	300,000	5,400	48	160,000	560	52,000	54	2.3	---	---	---
Commercial/Industrial Land Use					---	---	---	---	---	2,500,000	47,000	420	1,300,000	4,900	440,000	470	20	---	---	---
SVS1		06/25/12		---	11	<0.500	0.817	0.0107	-5.00	8,200	<7.2	11	12	6.2	26	<2.0	**<3.8**	<6.1	<9.4	18g, 4.8h, 2.8i, 7.0j, 2.7k, 1.1l
SVS2		06/25/12		---	15.5	<0.500	3.27	<0.0100	-5.00	<7,000	<7.6	5.7	4.6	4.1	25	<2.1	**<4.1**	<6.4	<10	15g, 15i, 5.7j, 8.9k
SVS3		06/25/12		---	20.3	<0.500	1.69	<0.0100	-5.00	<7,000	<7.2	9.6	4.5	<2.2	13	<2.0	**<3.8**	<6.1	<9.4	3.1a, 18g, 16i, 13j, 6.8k, 37n, 6.9o
VW1		11/09/10		5-6	3.75	<0.895	14.0	---	---	190,000	<13	10	17	80	100	<3.6	**<6.9**	<11	**---**	**---**
VW1		06/26/12		5-6	7.76	0.514	11.2	0.0688	-5.00	8,100	<8.0	47	33	9.4	84	<2.2	**<4.3**	<6.7	39	12a, 12b, 4.1c, 16d, 37g, 9.4h, 8.8i, 53j, 3.7m
VW1		06/26/15	q	5-6	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
VW2		11/09/10		5-6	18.5	<0.680	3.02	---	---	20,000	<9.8	<2.2	<2.6	<3.0	<12	4.8	**<5.2**	<8.2	**---**	**---**
VW2		06/26/12		5-6	16.9	<0.500	4.28	<0.0100	-5.00	<7,000	<7.2	2.2	3.0	<2.2	<8.7	<2.0	**<3.8**	<6.1	25	4.2e, 6.1g, 4.0j, 300k, 4.7n, 8.1o
VW2		06/26/15	p	5-6	---	---	---	---	---	<7,000	<7.2	4.7	2.6	1.2	29	<2.0	**<3.8**	<15	**---**	8.9h
VW3		11/09/10		5-6	1.55	<0.765	16.6	---	---	120,000	<11	9.7	25	9.0	36	4.2	**<5.9**	<9.3	**---**	**---**
VW3		06/26/15	p	5-6	---	---	---	---	---	260,000	<14	6.0	<38	84	68	<4.0	**<7.7**	<30	**---**	76c, 180d, 46m
VW4		11/09/10		5-6	1.59	14.2	14.1	<0.00164	---	**250,000,000**	**<10,000**	**16,000**	9,200	**71,000**	**60,000**	**<2,900**	**<5,400**	<8,500	**---**	**---**
VW4		06/26/12		5-6	2.27	40.4	18.0	<0.0100	-5.00	**220,000,000**	**<7,200**	**30,000**	<1,900	**95,000**	20,000	**<2,000**	**<3,800**	<6,100	<9,400	29,000c, 72,000d, 15,000m
VW4	Dup	06/26/12	f	5-6	21.6	1.36	<0.500	1.98	-5.00	**4,500,000**	<720	**900**	<190	**2,300**	<870	**<200**	**<380**	<610	<940	530c, 1,100d, 310m
VW4		06/26/15	p	5-6	---	---	---	---	---	**140,000,000**	**<7,200**	**18,000**	<19,000	**50,000**	21,000	**<2,000**	**<3,800**	<15,000	**---**	15,000c, 30,000d, 11,000m
VW5		11/09/10		5-6	10.3	6.61	12.5	<0.00164	---	**31,000,000**	<2,300	**1,000**	<590	<680	<2,700	**<640**	**<1,200**	<1,900	**---**	**---**
VW5	Dup	11/09/10		5-6	9.10	6.44	13.1	<0.00164	---	**30,000,000**	<2,200	**740**	<570	<660	<2,600	**<610**	**<1,200**	<1,800	**---**	**---**
VW5		06/26/12		5-6	14.6	5.36	7.95	<0.0100	-5.00	**4,300,000**	<720	**370**	<190	<220	<870	**<200**	**<380**	<610	<940	ND
VW5		06/26/15	q	5-6	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

TABLE 4
CUMULATIVE SOIL VAPOR ANALYTICAL DATA
Former Mobil Service Station 99105
6301 San Pablo Avenue
Oakland, California

Notes:

O_2 + A	=	Oxygen plus argon analyzed using ASTM D-1946.
Methane	=	Methane analyzed using ASTM D-1946.
CO_2	=	Carbon dioxide analyzed using ASTM D-1946.
Helium	=	Helium analyzed using ASTM D-1946.
Vacuum	=	Vacuum collected using a vacuum gauge.
TPHg	=	Total petroleum hydrocarbons analyzed using EPA Method TO-3M.
MTBE	=	Methyl tertiary butyl ether analyzed using EPA Method TO-15.
BTEX	=	Benzene, toluene, ethylbenzene, and total xylenes analyzed using EPA Method TO-15.
1,2-DCA	=	1,2-dichloroethane analyzed using EPA Method TO-15.
EDB	=	1,2-dibromoethene analyzed using EPA Method TO-15.
TBA	=	Tertiary butyl alcohol analyzed using EPA Method TO-15.
Ethanol	=	Ethanol analyzed using EPA Method TO-15.
Add'l VOCs	=	Additional volatile organic carbons analyzed using EPA Method T0-15.
feet bgs	=	Feet below ground surface.
%V	=	Percent by volume.
$\mu g/m^3$	=	Micrograms per cubic meter.
---	=	Not analyzed.
a	=	1,2-dichlorobenzene.
b	=	1,4-dichlorobenzene.
c	=	1,3,5-trimethylbenzene.
d	=	1,2,4-trimethylbenzene.
e	=	Bromodichloromethane.
f	=	Leak detection compound reported, biased low.
g	=	Acetone.
h	=	2-Butanone.
i	=	Carbon disulfide.
j	=	Chlorobenzene.
k	=	Chloroform.
l	=	Chloromethane.
m	=	4-ethyltoluene.
n	=	Trichloroethene.
o	=	Tetrachloroethene.
p	=	Samples collected in a tedlar bag.
q	=	Unable to sample well due to wet conditions.

TABLE 5
CUMULATIVE PID READINGS, VAPOR WELLS
Former Mobil Service Station 99105
6301 San Pablo Avenue
Oakland, California

Sample Date	VW1 (ppm)	VW2 (ppm)	VW3 (ppm)	VW4 (ppm)	VW5 (ppm)
08/01/14	559	118	146	>7,000	500
08/18/14	317	1.9	85.8	1,780	395
08/22/14	62	0.4	122	>9,000	473
12/31/14	75.2	Wet	178.1	1,499	165.4
01/23/15	1.2	2.2	64	3,680	18
06/26/15	Wet	0.7	79.5	2,319	Wet
08/14/15	Wet	6.2	16.6	2,740	Wet
03/25/16	18.3	Wet	69.3	1,447	Wet
07/12/16	7.5	1.1	46.2	2,244	Wet

Notes:
ppm = Parts per million.

APPENDIX A

FIELD PROTOCOL

Soil Vapor Sampling Well Installation and Sampling Field Protocol

Preliminary Activities

Prior to the onset of field activities at the site, Cardno obtains the appropriate permit(s) from the governing agency(s). Advance notification is made as required by the agency(s) prior to the start of work. Cardno marks the borehole locations and contacts the local one call utility locating service at least 48 hours prior to the start of work to mark buried utilities. Borehole locations may also be checked for buried utilities by a private geophysical surveyor. Prior to drilling, the borehole location is cleared in accordance with the client's procedures. Fieldwork is conducted under the advisement of a registered professional geologist and in accordance with an updated site-specific safety plan prepared for the project, which is available at the job site during field activities.

Well Construction

The borehole is advanced to the desired depth using either a direct-push rig, hand auger, or air vacuum rig. Lithologic conditions are recorded on a boring log during borehole advancement, and select soil matrix sampling may be conducted based on soil characteristics.

Each soil vapor sampling (SVS) well is constructed using inert screen material attached to $^1/_8$- to ¼-inch outer diameter inert tubing. A gas-tight vacuum fitting or valve is attached to the top of each length of tubing using a female compression fitting. Each screen is set within a minimum of a 12-inch thick appropriately sized sand pack, with a minimum of 3 inches of sand pack above the top of the screen. A minimum of 4 inches of dry granular bentonite is set above each screen and associated sand pack. In SVS wells with multiple and separate casings and screens, the annular space between the top of the dry granular bentonite above the deep screen and the bottom of the sand pack associated with the shallow screen is sealed with a minimum of 18 inches of hydrated bentonite. The remainder of the annular space of the well is sealed with hydrated bentonite to 1 foot below ground surface. Wellheads are finished with traffic-rated well boxes set in concrete flush with the surrounding grade. No glues, chemical cements, or solvents are used in well construction.

A boring log is completed with the construction details for each well, including the materials of construction, depth of the borehole, screen length, and annular seal thickness.

Soil Vapor Sampling

Samples are collected using a soil vapor purging and sampling manifold consisting of a flow regulator, vacuum gauges, vacuum pump, shroud, and laboratory-prepared, gas-tight, opaque containers such as Summa™ canisters. Samples may also be collected using a syringe and analyzed by a mobile laboratory. Prior to use, Summa™ canisters are checked to ensure they are under the laboratory induced vacuum between 31 and 25 inches of mercury (in. Hg). New inert tubing is used to purge and sample each well. Prior to purging and sampling each SVS well, the sampling manifold is connected to the gas-tight vacuum fitting or valve at the wellhead, and the downstream tubing and fittings are vacuum tested at approximately 24 to 28 in. Hg. Purging and sampling are conducted only on SVS wells when the tubing and fittings hold the applied vacuum for 5 minutes per vacuum gauge reading.

When required, Cardno conducts a purge volume versus constituent concentration test on at least one SVS well prior to purging and sampling activities. The purge volume test well is selected based on the location of the anticipated source of chemical constituents at the site and on the location of anticipated maximum soil vapor concentrations based on lithologic conditions. If the SVS well has been in place for more than 1 week, it is assumed that soil vapor in the sand pack has equilibrated with the surrounding soil, and only the screen and tubing volumes are included in the purge volume calculation. If the SVS well has been in place for less than 1 week, the volume of the sand pack around the screen is included in the purge volume calculation. A photo-ionization detector (PID) or on-site mobile laboratory is used to evaluate concentrations of chemical constituents in the vapor stream after 1, 3, and 10 volumes of vapor have been purged from the SVS well. Purging is conducted at a rate of 100 to 200

milliliters per minute (ml/min). The purge volume exhibiting the highest concentration is the volume of vapor purged from each SVS well prior to sampling. If the three separate purge volumes produce equal concentrations a default of 3 purge volumes is extracted prior to sampling.

Prior to sampling, a helium leak test is performed at each SVS well, including a summa canister and its fittings, to check for leaks in the SVS annulus. To assess the potential for leaks in the SVS well annulus, a shroud is placed over the SVS well and summa canister and the shroud is filled with a measured amount of helium. Helium screening is performed in the field by drawing soil gas into a Tedlar bag via a lung-box and screening the contents of the Tedlar bag with a helium meter. The concentration of helium in the sample divided by the concentration of helium in the shroud provides a measure of the proportion of the sample attributable to leakage. A leak that comprises less than 5% of the sample is insignificant. Helium screening is also performed using laboratory analysis of the contents of the summa canister collected under the shroud. Sampling is conducted at approximately the same rate of purging, at 100 to 200 ml/min. Soil vapor samples are submitted under chain-of-custody protocol for the specified laboratory analyses.

At a minimum, weather conditions (temperature, barometric pressure and precipitation), the sampling flow rate, the purge volume, the helium leak detection percentage results, the sample canister identification number, the method of sample collection, and the vacuum of the sampling canister at the start and end of sample collection (if applicable) are recorded on a log for each SVS well purged and sampled.

Decontamination Procedures

If soil samples are collected, Cardno or the contracted driller decontaminates the soil sampling equipment between each sampling interval using a non-phosphate solution, followed by a minimum of two tap water rinses. De-ionized water may be used for the final rinse. Downhole drilling equipment is steam-cleaned or triple-rinsed prior to advancing each borehole.

Waste Treatment and Disposal

Soil cuttings generated from the well installation are stored on site in labeled, Department of Transportation-approved, 55-gallon drums or other appropriate storage container. The soil is removed from the site and transported under manifest to a client- and regulatory-approved facility for recycling or disposal. Decontamination water is stored on site in labeled, regulatory-approved storage containers, and is subsequently transported under manifest to a client- and regulatory-approved facility for disposal or treated with a permitted mobile or fixed-base carbon treatment system.