DRAFT FINAL SITEWIDE RISK MANAGEMENT PLAN

POTRERO POWER STATION
SAN FRANCISCO, CALIFORNIA

Prepared for

Pacific Gas and Electric Company
and
California Barrel Company

Prepared by

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September 11, 2020

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September 11, 2020

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ACRONYMS AND ABBREVIATIONS

ADMP	Asbestos Dust Mitigation Plan
AMEC	AMEC Geomatrix, Inc.
AST	aboveground storage tank
ATCM	Air Toxics Control Measure
BAAQMD	Bay Area Air Quality Management District
bgs	below ground surface
BMPs	best management practices
BTEX	benzene, toluene, ethylbenzene and total xylenes
Cal/OSHA	California Occupational Safety and Health
CARB	California Environmental Protection Agency, Air Resources Board
CBC	California Barrel Company, LLC
CCR	California Code of Regulations
CIH	Certified Industrial Hygienist
City	City of San Francisco
COCs	constituents of concern
COPCs	constituents of potential concern
DNAPL	dense non-aqueous phase liquid
DTSC	Department of Toxic Substances Control
DVOCP	Dust, Vapor, and Odor Control Plan
EHSPs	Environmental Health and Safety Plans
ESL	Environmental Screening Level
Geomatrix	Geomatrix Consultants, Inc.
Geosyntec	Geosyntec Consultants, Inc.
HHRA	human health risk assessments
HMUPA	Hazardous Materials Unified Program Agency
ISS	in-situ soil solidification
LBNL	Lawrence Berkeley National Laboratory
LUC	Land Use Covenant
MCL	maximum contaminant level
mg/kg	milligrams per kilogram

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MGP	manufactured gas plant
MLLW	mean lower low water
NOA	naturally occurring asbestos
NPDES	National Pollution Discharge Elimination System
O&M Plan	Operation & Maintenance Plan
PAHs	polycyclic aromatic hydrocarbons
PCBs	polychlorinated biphenyls
PG&E	Pacific Gas and Electric Company
Port	the Port of San Francisco
POTW	Publicly Owned Treatment Works
PPE	personal protective equipment
ppm	parts per million
PPP	Potrero Power Plant
PPS	Potrero Power Station
RACR	Remedial Action Completion Report
RMMP	Risk Management and Monitoring Plan
RMP	Risk Management Plan
RSL	Regional Screening Level
sf	square feet
SFDPH	San Francisco Department of Public Health
SFDPW	San Francisco Department of Public Works
SFFD	San Francisco Fire Department
SFPUC	San Francisco Public Utilities Commission
Site	Potrero Power Station
Sitewide RMP	Sitewide Risk Management Plan
SSHO	Site Safety and Health Officer
SVOCs	semi-volatile organic compounds
SWPPP	Storm Water Pollution Prevention Plan
TPG	Terra Pacific Group
TPH	total petroleum hydrocarbons
TSCA	Toxic Substances Control Act

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USEPA	United States Environmental Protection Agency
UST	underground storage tank
VIMS	vapor intrusion mitigation system
VIWP	Vapor Intrusion Evaluation Work Plan
VOCs	volatile organic compounds
Water Board	Regional Water Quality Control Board

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EXECUTIVE SUMMARY

On behalf of California Barrel Company, LLC (CBC) and Pacific Gas and Electric Company (PG&E), Geosyntec Consultants, Inc. (Geosyntec) and Terra Pacific Group (TPG) have jointly prepared this Sitewide Risk Management Plan (Sitewide RMP) for the Potrero Power Station (PPS; Site) development located at 420 23rd Street (also referenced as 1201A Illinois Street) in San Francisco, California (**Figure 1**). PG&E formerly operated an electric power generating plant and manufactured gas plant on the property. The PPS occupies a portion of what has been formerly referred to as the Potrero Power Plant (PPP) property.

The 34-acre PPP is located in San Francisco's Central Waterfront, bordered by 23rd Street to the south, Illinois Street to the west, Pier 70 to the north, and the San Francisco Bay to the east. The Site and adjacent areas have been used for industrial activities since the mid-1800s. Some of the historical uses on and near the Site included ship building and repair, foundries, sugar refining, and barrel making. A manufactured gas plant (MGP), which used coal and oil to produce a form of natural gas, operated in the northern portion of the PPP from the 1870s to 1930. The electric generating PPP was originally built in the 1910s and later upgraded and expanded in the 1960s. The power plant was permanently retired in March 2011.

In 1999, PG&E divested 22 acres of the PPP, including the electric power generation facilities, and kept 12 acres of it for its ongoing transmission, gas loading, and materials handling operations. In 2016, PG&E purchased back 1 acre of the original 22 acres for building a Gas Insulated Substation. CBC currently owns 21 of the 34 acres and intends to redevelop the Site into a mixed-use development. The planned PPS development area includes the CBC-owned 21 acres, an additional 4.8 acres currently owned by PG&E, and approximately 3 acres of shoreline owned by the Port of San Francisco (Port) (**Figure 2**). This Sitewide RMP applies to the planned PPS development area, with the exception of the Port-owned shoreline property. Risk management protocol for the Port-owned shoreline property are presented in the offshore Risk Management and Monitoring Plan (RMMP), which was prepared by PG&E and approved by the Water Board for the remediation of the Offshore Area.

Between 1998 and 2019, various environmental investigation and remediation activities conducted by PG&E at the PPP have identified residual pollutants collectively referred to as constituents of potential concern (COPCs) in the soil, soil vapor, and groundwater that were released to the subsurface as the result of past filling, industrial activity, electric power generation, and manufactured gas generating activities. For purposes of investigation and cleanup, the PPP has been divided into seven operational areas. The planned PPS development area includes all or portions of six of the areas, including the Station A Area, Unit 3 Area, Northeast Area, Tank Farm Area, the North Switchyard/General Construction Yard, and the shoreline portion of the Offshore Area (**Figure 3**). The Hoedown Yard and South Switchyard operational areas are owned by PG&E and are not part of the planned development. The results of these investigations, along with evaluations of potential human health risks, indicate that as a component of the remedy for each of the seven operation areas, risk reduction and/or risk management measures are appropriate to mitigate potential health risks associated with exposures to residual COPCs following completion of active remediation at the Site. The remedy for each of the operational areas includes risk reduction and/or risk management measures including intuitional and engineering controls in the

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form of a Land Use Covenant (LUC), installation of a durable cover, and compliance with an RMP and Operation & Maintenance Plan (O&M Plan).

CBC has obtained entitlement rights to redevelop the PPS as a mixed-use development consisting of commercial, residential, hotel, and public open space uses. The PPS has been delineated into 13 Development Blocks that will be constructed in phases over a 16-year period beginning in 2020 and ending in 2035. The correlation of the Development Blocks with the PG&E remediation areas is as follows (**Figure 2**):

- Station A Area: Development Blocks 5, 7, 8, 11, 12, and 15;
- Unit 3 Area: The southern portion of Development Block 9;
- Tank Farm Area: Development Blocks 2 and 3 and a portion of Block 1;
- Northeast Area: Development Block 4 and the northern portion of Block 9; and
- PG&E's Switchyard and Construction Yard: Development Blocks 13 and 14 and a portion of Block 1.

The objective of this Sitewide RMP is to ensure the continued protection of human health and the environment at the PPS throughout the development process, and the Sitewide RMP is considered a primary component of the remedies across the PPS. It sets forth procedures and protocols to be followed during construction, maintenance activities, and long-term management of residual COPCs on the PPS. In addition, the Sitewide RMP provides the risk management elements required for residential, day care, and hotel uses. Compliance with this Sitewide RMP is required within the PPS development area at all times. Compliance with risk management protocols for construction work, outlined in **Sections 5 and 6**, is required at any time when an existing durable cover at the PPS is disturbed or removed and involves 50 cubic yards or greater in total soil volume or an area greater than 1,250 square feet (sf).

The Regional Water Quality Control Board (Water Board) is the designated Administering Agency for the PPS under California Health and Safety Code section 25260, et seq., meaning that the Water Board supervises all aspects of cleanup, including compliance with this Sitewide RMP, and is granted sole jurisdiction over all activities necessary to respond to release of hazardous materials. The Water Board is also a beneficiary of the CBC LUC and PG&E LUC (**Appendix A**). Notification to the Water Board by the Owner, and subsequent approval by Water Board staff, must be made or obtained, as provided in **Section 3**.

Section 5 outlines the protocol that are required to maintain the durable cover and for any activity that disturbs or removes the durable cover at the PPS, regardless of environmental condition, development activity, or land use. Required protocol and requirements that apply to the PPS are identified in **Section 5** for the following:

- Durable cover maintenance and replacement;
- Access controls during construction in areas where the durable cover has been removed;
- Construction worker health and safety;

- Spill response protocol;
- Soil management protocol;
- Dust, asbestos, vapor, and odor controls;
- Construction stormwater management;
- Temporary groundwater dewatering activities; and
- Unanticipated conditions response protocol.

As a result of the former MGP operations, certain unique environmental conditions exist in the Northeast and Tank Farm Areas (Development Blocks 1, 2, 3, 4, and a portion of Block 9) that warrant specific protocol to maintain the protectiveness of the remedy and to provide for future protection of human health and the environment. **Section 6** outlines the protocol that are required, in addition to those required in **Section 5**, and apply to these specific areas. These additional protocols include soil excavation and offsite disposal and soil vapor migration controls.

In support of the development of certain blocks for residential uses, CBC has submitted, and the Water Board has approved, a Residential Use Health Risk Evaluation (Geosyntec, 2020). Based on the results of this evaluation, the Water Board concurred that residential use, child day care use, and open-air playground use can be conducted safely within Development Blocks 1, 2, 3, 4, 5, 7, 8, 9, 11, 12, and Power Station Park with the condition that buildings are constructed with sub-grade ventilated garages and/or with the implementation of engineering controls as specified in the LUC and **Section 6.4** of this Sitewide RMP. Blocks 13, 14, and 15 have not been evaluated for the vapor intrusion exposure pathway as no soil vapor data currently exists for those Development Blocks. Prior to development, a vapor intrusion pathway evaluation shall be conducted on these Development Blocks. A list of approved land uses and risk management requirements is included in **Table 1**.

Following development, establishment of a final durable cover, and occupancy of a specific Development Block, certain requirements of this Sitewide RMP may no longer be required. Following completion of the final durable cover, this Sitewide RMP will continue to apply to all Development Blocks; however, on a block-by-block basis, a block-specific RMP (e.g., Block 1 Post-Development RMP) may be developed to reflect the unique conditions and requirements that apply to that Development Block. Any revisions to this Sitewide RMP or development of a new block-specific RMP must follow the Sitewide RMP modification requirements in **Section 7.5** and must be approved in writing by the Water Board. Once approved by the Water Board, the new block-specific RMP will become effective and supersede this Sitewide RMP for that block.

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1. INTRODUCTION

On behalf of California Barrel Company, LLC (CBC) and Pacific Gas and Electric Company (PG&E), Geosyntec Consultants, Inc. (Geosyntec) and Terra Pacific Group (TPG) have jointly prepared this Sitewide Risk Management Plan (Sitewide RMP) for the Potrero Power Station (PPS; Site) located at 420 23rd Street (also referenced as 1201A Illinois Street) in San Francisco, California (**Figure 1**). PG&E formerly operated an electric power generating plant and manufactured gas plant on the property. The PPS is located in an industrial waterfront area of San Francisco, south of the central business district, and is bounded by Illinois Street to the west, 23rd Street and industrial properties to the south, San Francisco Bay to the east, and the Port of San Francisco's Pier 70 property to the north.

Overall, the PPS covers 34 acres and includes properties that are currently owned by PG&E, the Port of San Francisco (Port), and CBC (**Figure 2**). In 1999, PG&E divested 22 acres of the former Potrero Power Plant (PPP), including the electric power generation facilities, and kept 12 acres for its ongoing transmission, gas loading, and materials handling operations. In 2016, PG&E purchased back 1 acre of the original 22 acres for building a Gas Insulated Substation. CBC currently owns 21 of the 34 acres and intends to redevelop the PPS into a mixed-use development. The planned development area includes the CBC-owned 21 acres and an additional 4.8 acres currently owned by PG&E and approximately 3 acres of shoreline owned by the Port.

1.1 Environmental Background

Between 1998 and 2019, various environmental investigation and remediation activities conducted by PG&E at the PPP have identified residual pollutants collectively referred to as constituents of potential concern (COPCs) in the soil, soil vapor, and groundwater that were released to the subsurface as the result of past filling, electric power and manufactured gas generating activities. For purposes of investigation and cleanup, the PPP has been divided into seven operational areas (**Figure 3**). The planned PPS development area includes all or portions of six of the areas, which include:

Operational Area	Current Owner	Size (Acres)
Station A Area	CBC	11.9
Unit 3 Area	CBC	1.3
Northeast Area	CBC	3.0
Tank Farm Area	CBC	4.8
Switchyard North/General Construction Yard	PG&E	4.8
Offshore Area Shoreline	Port	3

The results of these investigations, along with evaluations of potential human health risks, indicate that risk reduction and/or risk management measures are appropriate to mitigate potential health risks associated with exposures to residual COPCs following completion of active remedial activities at the Site. The primary potential risks posed by residual COPCs on the PPS result from direct contact with existing soil and inhalation of chemical vapors from vapor intrusion to indoor

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air. A more detailed description of the Site history, investigation findings, active remedies, and risk reduction/management measures is presented in **Section 4**.

A common component of all remedies applied across the PPS is the presence of a durable cover and the application of engineering and institutional controls, including compliance with this Sitewide RMP. Therefore, the Sitewide RMP is an essential component of the remedy for the PPS. It is a tool for ensuring effectiveness of the institutional and engineering controls and provides a framework to maintain the integrity of the durable cover and active remedy components as well as manage residual COPCs in a manner that protects construction workers and users during current and future land uses. It specifies measures to mitigate potential risks to the environment, current and future onsite employees/occupants, construction and maintenance workers, residents, visitors, and the public. Every current landowner and/or Master Developer is responsible for complying with the Land Use Covenant (LUC) and protocol included in the Sitewide RMP and its amendments.

1.2 Summary of Land Use Restrictions

Institutional controls are an important component of the remedy for the PPS and are documented in the LUCs for the PPS that are enforceable by the Regional Water Quality Control Board (Water Board). One LUC covers the CBC owned portion of the PPS (CBC LUC) and the other covers the PG&E-owned Switchyard North/General Construction Yard portion of the PPS (PG&E LUC). A copy of each of these LUCs is included in **Appendix A** and can be downloaded at the Water Board Geotracker website (http://geotracker.waterboards.ca.gov). The LUCs prohibit certain land uses at the PPS, require compliance with this Sitewide RMP and applicable Operation and Maintenance Plans (O&M Plans), are recorded in the official records of the City and County of San Francisco (the City), and are binding on all current and future PPS owners, operators, and occupants.

With respect to land uses, the LUCs restrict the PPS from being used for single family residential homes, health care facilities, and schools for persons under 21 years of age. Multi-family residential and day care uses are allowed in the PPS and are subject to the conditions identified in **Section 6**. Commercial/industrial uses are allowable on the PPS, subject to the conditions identified in **Section 6**. A list of approved land uses and risk management requirements for the land uses planned for each Development Block is included **Table 1**.

The LUCs also prohibit certain activities such as the use of groundwater for domestic or potable purposes (e.g., drinking, cooking, or washing) and industrial uses (e.g., use of groundwater for dust control) unless specifically permitted in writing by the Water Board. In summary, uses and activities that would increase the risk of exposure to hazardous materials in the existing soil, soil vapor, and groundwater are prohibited.

1.3 Objectives and Scope of the Sitewide RMP

The objective of this Sitewide RMP is to ensure the continued protection of human health and the environment at the PPS and the Sitewide RMP is considered a primary component of the remedies across the PPS. This Sitewide RMP applies to the planned PPS development area, with the exception of the Port-owned shoreline property. Risk management protocol for the Port-owned shoreline property are presented in the offshore Risk Management and Monitoring Plan (RMMP),

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which was prepared by PG&E (Haley & Aldrich, 2020) and approved by the Water Board for the remediation of the Offshore Area.

The Sitewide RMP sets forth procedures and protocols to be followed during construction, maintenance activities, and long-term management of residual COPCs on the PPS. In addition, the Sitewide RMP provides the risk management elements, required for residential and day care uses, such as vapor intrusion mitigation. Specifically, the Sitewide RMP provides:

- Guidelines for appropriate health and safety precautions for construction and maintenance workers at the PPS who may access existing soil or groundwater that could contain residual COPCs.
- Security measures to prevent unauthorized public access to the PPS during construction.
- Procedures for short-term (i.e., during maintenance and construction activities) management of the residual COPCs present in PPS soil, soil vapor, and groundwater to minimize exposure to construction/maintenance workers, land users, and the public.
- Procedures for ensuring that the physical components of the remedy are maintained in a condition that allows them to operate properly before, during, and after construction activities.
- Procedures for addressing yet unknown conditions that may be discovered through the course of future redevelopment or construction activities, especially those that involve exposure to COPCs in the existing soil.
- A Durable Cover O&M Plan that details the inspections, maintenance, and reporting related to durable covers (**Appendix E**).
- Requirements for risk management to allow residential development and day care uses at certain parcels (**Section 6**).

For the purpose of this Sitewide RMP, the terms "existing soil," "existing durable cover," and "durable cover" are defined as follows:

- Existing soil refers to soil present at the PPS when the remedy was approved, regardless of its provenance. The existing soil consists mostly of historic fill placed during the evolution and development of the PPP and typically contains COPCs at concentrations that potentially pose a potential threat to human health and the environment as described in the risk evaluations.
- Existing durable cover refers to any of the various types of surface treatments that currently exist within the PPS and function as a durable cover, including streets, building foundations, sidewalks, asphalt paving, concrete paving, and/or other durable hardscape that prevents direct human contact with the underlying existing soil.
- Durable cover refers to durable surface treatments that create a physical barrier and adequately prevents direct human exposure to existing soil, such as those listed in

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Section 4. Definitions for a final durable cover and temporary durable cover are provided in **Section 5.1**.

The Sitewide RMP is organized as follows:

- Section 1 provides an introduction, objectives and scope, description of the regulatory framework, PPP history, and proposed development plan.
- Section 2 outlines the framework of the Sitewide RMP and identifies the public information repositories.
- Section 3 describes notification and reporting requirements.
- Section 4 provides a summary of the PPP background, environmental conditions, and remedy components.
- Sections 5 provides protocols that apply to all areas of the PPS**,** including protocol that must be implemented during construction activities that disturb or remove the existing durable cover.
- Section 6 provides protocols, in addition to those required in Section 5, that are required for specific development areas.
- Section 7 provides protocols that apply to all areas after development is complete and a new final durable cover has been installed.
- Section 8 includes references cited.
- Figures and Appendices provide information and specific plans that support the protocol in this Sitewide RMP.

1.4 Intended Users

This Sitewide RMP is intended for use by the following entities or their designees who may occupy or manage the PPS or perform or oversee maintenance or construction within the PPS. Intended Users of this Sitewide RMP may include the following:

- **Owner** – current property owner at any given time. This term also applies to leaseholders who have a leasehold interest in land within the PPS. During its ownership, the Owner is considered as the ultimate responsible party for implementing/compliance of the LUCs and Sitewide RMP.
- **Owner's Representative** – party engaged by the Owner to assist in implementing this Sitewide RMP, typically a licensed professional scientist, engineer, or consultant.
- **Project Proponents**: developers, ground lessees, tenants, licensees, or other entities authorized by the Owner to conduct operations, maintenance, construction or other activities at the PPS.
- **Contractor** – party that the Owner or Project Proponent retains to conduct construction activities at the PPS.

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- **Environmental Regulatory Agency** – agency responsible for overseeing compliance with LUC requirements and this Sitewide RMP. As discussed in **Section 1.4**, the Water Board is the designated Administrating Agency of the PPS as per the California Health and Safety Code Section 25260. Other agencies that may become involved are the San Francisco Department of Public Health (SFDPH) and the Bay Area Air Quality Management District (BAAQMD).

The Owner may designate its Representative, the Project Proponent, or a Contractor to act on its behalf; however, this does not release the Owner from the responsibility to provide for the proper implementation of the Sitewide RMP, as specified in the LUCs. All references to Owner are intended to include the Owner's Representative, the Project Proponent, and Contractors. The Owner shall provide a copy of the Sitewide RMP to all parties who will perform work that poses the potential for exposure to COPCs in the soil, soil vapor, and groundwater. As described in **Section 3**, the Owner must provide a copy of the Sitewide RMP to lessees, permittees, tenants, contractors, future transferees or any other party with the legal right to perform subsurface work at the PPS.

1.5 Regulatory Oversight Responsibilities for RMP Implementation

The Water Board is the designated Administering Agency for the PPP under California Health and Safety Code section 25260, et seq., meaning that the Water Board supervises all aspects of cleanup and is granted sole jurisdiction over all activities necessary to respond to release of hazardous materials. The Water Board is also a beneficiary of the CBC LUC and PG&E LUC.

As the designated Administering Agency, the Water Board may consult with other supporting agencies in its efforts to enforce this Sitewide RMP. The primary local advisory agency for environmental issues associated with development construction at the PPS is the SFDPH. SFDPH administers compliance with Article 22 of the San Francisco Health Code. The SFDPH has concurred that adherence to the protocols in this Sitewide RMP will satisfy the substantive requirements of a "Site Mitigation Report," as referenced in Article 22A, and the dust control measures referred to in Article 22B. The SFDPH has issued Maher Ordinance Permit Numbers SMED 1772 and SMED 1885 for the PPS.

As the Administering Agency, the Water Board shall require that the substantive provisions of applicable state and local laws and regulations are followed, in coordination with the supporting agencies. These laws and regulations address issues such as dust generation, hazardous waste management, stormwater management, and health and safety. Federal laws will be directly administered by applicable federal agencies. The Water Board's role includes, but is not limited to:

- Review, oversight, and approval of notification packages, work plans, design plans, and completion reports and any other submittals that are required by this Sitewide RMP, as described in **Section 3**.
- Review and approval of modifications to this Sitewide RMP.
- Conduct periodic onsite inspections to verify compliance with Sitewide RMP procedures and protocols.

- Review and approval of activities involving unknown conditions that fall outside the prescribed remedy.

Although this Sitewide RMP sets forth the requirements for management of the potential risks in soil, soil vapor, and groundwater prior to, during, and following construction activities, it is not intended to catalog all other legal requirements that may apply to the property or to activities conducted under the Sitewide RMP. The Owner, directly or through its Representative, must obtain all necessary permits, copies of which must be submitted to the Water Board as part of notification and closure documentation (**Section 3**). The following is a list of state and local agencies that may have permit or compliance requirements for certain construction and maintenance activities, in addition to any requirements described in this Sitewide RMP and the LUCs. This list identifies state and local regulatory agencies that may have jurisdiction over environmental conditions at the PPS and the activities contemplated there and is not intended to be complete for all development activities:

- BAAQMD:
  - Air emissions and/or dust control for volatile organic compounds (VOCs), naturally occurring metals, and naturally occurring asbestos (NOA), if applicable.
  - Authority to Construct / Permit to Operate.
  - Vapor intrusion mitigation system exhaust emissions.
- Bay Conservation and Development Commission – approval of repairs or modifications to the property within 100 feet of the San Francisco Bay shoreline (as defined in Section 66610 of The McAteer-Petris Act).
- California Occupational Safety and Health (Cal/OSHA) – worker health and safety.
- City and County of San Francisco Department of Building Inspection – grading and building permits.
- City and County of San Francisco Department of Public Works – permitting of structures in existing or future public rights-of-way and parks; subdivision approvals.
- City and County of San Francisco Fire Marshall – approval of infrastructure related to Fire Department emergency response.
- City and County of San Francisco Public Utilities Commission (SFPUC) –discharge permitting for wastewater and groundwater generated from construction dewatering.
- SFDPH – permits for soil borings, soil vapor probes, and groundwater monitoring wells, and Article 22 compliance.
- Port of San Francisco – permits to access and conduct work on Port property.

1.6 Redevelopment Plans

CBC is the PPS master developer and has initiated rezoning and developed design standards and controls for a multi-phased, mixed-use development. CBC received Planning Commission approval of the project on January 30, 2020, and Board of Supervisors approval on April 21, 2020.

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As approved, CBC would develop market-rate and affordable residential uses, commercial mixed uses (including office and research and development uses), hotel use, community facility uses, retail and other active uses, and parking. The proposed project would also include public access areas and open space, a rooftop soccer field and other active open space uses, shoreline improvements, a recreational boat dock, an internal grid of public streets, and shared public ways, all with supporting utilities infrastructure. CBC has organized the PPS into 13 Development Blocks. The configuration of the Development Blocks and associated land uses are shown in **Figure 4**.

It is the intent of this Sitewide RMP that all work be tracked, managed, and reported in the State Water Resources Control Board GeoTracker database management system using the Development Block designation. The use of the PG&E remediation area designations for Site management purposes will be discontinued and replaced with specific GeoTracker cases for each of the Development Blocks and common areas as shown in **Table 1**. The correlation of the Development Blocks with the PG&E remediation areas is as follows (**Figure 2**):

- Station A Area: Development Blocks 5, 7, 8, 11, 12, 15, Power Station Park, Louisiana Paseo;
- Unit 3 Area: The southern portion of Development Block 9 and a portion of Waterfront Park;
- Tank Farm Area: Development Blocks 2 and 3 and the eastern portion of Block 1;
- Northeast Area: Development Block 4, the northern portion of Block 9, Humboldt Street Plaza, and a portion of Waterfront Park;
- PG&E's Switchyard and General Construction Yard: Development Blocks 13 and 14 and a portion of Block 1; and
- Port's Shoreline Area: A portion of Unit 3, a portion of Block 9, and Shoreline Park.

Project construction would likely occur in several overlapping phases, with each phase lasting from three to five years. Construction is estimated to occur over an approximately 16-year period, beginning in 2020 and ending in 2035, but could occur over a longer or shorter period depending on market conditions and permitting requirements. The initial phase will include demolition, excavation, rough grading, and backbone utility installation activities for the entire PPS.

In support of the development of certain blocks for residential uses, CBC has submitted, and the Water Board has approved, Residential Use Human Health Risk Evaluation (Geosyntec, 2020). Based on the results of this evaluation, the Water Board concurred that residential use, child day care use, and open-air playground use can be conducted safely within Development Blocks 1, 2, 3, 4, 5, 7, 8, 9, 11, 12, and Power Station Park with the condition that buildings are constructed with sub-grade ventilated garages and/or with the implementation of engineering controls, as specified in the LUC and **Section 6.4** of this Sitewide RMP. Blocks 13, 14, and 15 have not been evaluated for the vapor intrusion exposure pathway as no soil vapor exists for those Development Blocks. Prior to development, a vapor intrusion pathway evaluation shall be conducted on these Development Blocks. A list of approved land uses and risk management requirements is included

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in **Table 1**. A copy of the health risk evaluation and the Water Board approval of sensitive uses is included in **Appendix C**.

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2. RISK MANAGEMENT PLAN FRAMEWORK

Compliance with this Sitewide RMP is required within the Site at all times and is enforceable by the Water Board. Compliance with risk management protocols for construction work outlined in Sections 5 and 6 are required at any time when an existing durable cover at the PPS is disturbed or removed and involves 50 cubic yards or greater in total soil volume or an area greater than 1250 square feet (sf). Examples of triggering conditions include, but are not limited to, the following:

- Disturbance or alteration of an existing durable cover for excavation or mass grading of underlying soil;
- Disturbance or alteration of an existing durable cover or the in-situ soil solidification (ISS) remedy to conduct geotechnical stabilization of the subsurface soil along the shoreline; and
- Disturbance or alteration of a final durable cover to conduct utility repairs, landscape management, or other maintenance construction work.

This Sitewide RMP provides for the following three protocols: i) those required for all development areas during development (**Section 5**); ii) those required for certain development areas during development (**Section 6**); and iii) those that apply to all areas following development construction (**Section 7**).

2.1 Modifications and Variances to the Risk Management Plan

This Sitewide RMP takes into account Site conditions known at the time this RMP was approved by the Water Board in 2020. It may be necessary or appropriate to modify this RMP from time to time for any of several reasons, including:

- New legal or regulatory requirements;
- Change in the understanding of environmental conditions (e.g., newly identified COPCs or the discovery of higher concentrations of known COPCs);
- Changes in the environmental conditions as a result of development construction (e.g., excavation and offsite disposal of contaminated soil; dewatering and offsite disposal of contaminated groundwater, etc.); or
- Redevelopment of the Site resulting in a different configuration of uses and environmental conditions.

Additionally, modification or termination of specific conditions or controls stated in this Sitewide RMP may be warranted. Such actions will result in a revised Sitewide RMP, Sitewide RMP Amendment, or Sitewide RMP Addendum.

The Owner and/or the Water Board staff may propose modifications to this Sitewide RMP and, under Health and Safety Code Chapter 6.65, supporting agencies may also propose modifications. The Water Board staff, as the lead (i.e., Administrating) agency and, as appropriate, in consultation with supporting agencies, will review proposals for Sitewide RMP modification, request any additional background information needed, and issue a decision regarding each such proposal

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within approximately 60 calendar days of receiving both the proposal and any additional information requested with respect to it. Both the Owner and Water Board staff must agree to any proposed modification to this Sitewide RMP before it is approved. Modifications are not effective until approved by the Water Board in writing.

Once approved, a Revised Sitewide RMP or Sitewide RMP Addendum shall be distributed to all relevant parties, including the Owner and lessees, and filed in the public information repositories (**Section 2.2**). Changes in notification personnel are not considered a modification to the Sitewide RMP and do not require regulatory agency approval but will be documented and updated in GeoTracker.

2.1.1 Modifications Due to a Change in Land Use or Redevelopment

Approved land uses and associated risk management requirements are listed in **Table 1**. A change in land use from approved land uses (e.g., commercial/industrial, high density residential, and day care) to currently restricted land uses (e.g., healthcare and schools) requires written approval by the Water Board's executive officer. Such approval may also require modifications to any existing LUC and this Sitewide RMP. The Owner, directly or via its Representative, shall be responsible for obtaining the approvals and required modifications, if any.

If a proposed change in land use conflicts with the requirements of a private LUC, additional approvals may also be required from the parties who are signatory to the private LUC.

2.1.2 Project-Specific RMP Variances

Individual variances from specific conditions of this Sitewide RMP may be granted on a project-specific basis with notification to, and approval by, the Water Board's executive officer (each, an "RMP Variance"). The Water Board will strive to respond to a Variance Request within 30 days of receipt of notification. If the Variance Request is time-critical, this should be explained in the request and Water Board staff will attempt to respond in the shortest time possible. Approval of each Variance Request will be granted on a single time basis and affect only the area or activity covered by the request. An example of when an Variance may be requested includes the approval of a reduced thickness of clean fill required for the durable cover in a landscaped area or of the use of a specific import material that may not strictly meet the soil import criteria described in **Section 5.5.3**.

The issuance of each Sitewide RMP Variance Request may not necessarily require revision of the Sitewide RMP document. A Sitewide RMP Variance Approval will be returned to the project proponent and also added to the information repositories identified in **Section 2.2**. The notification requirements for a Sitewide RMP Variance are presented in **Section 3**.

2.2 Public Information Repositories

The Water Board staff is responsible for public engagement and maintaining communication with state/local regulatory agencies for appropriate consultation.

Records must be kept to document compliance of the development construction and subsequent land use of the PPS with the requirements of the LUC and this Sitewide RMP. All compliance documents and reports required by this RMP (**Section 3**) shall be submitted to the Water Board

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and uploaded by the Owner or document author to the Water Board's GeoTracker website (http://geotracker.waterboards.ca.gov) for each specific development block. The GeoTracker website will be the primary repository for documentation pertaining to compliance with the LUC and Sitewide RMP. Each Owner is required to maintain compliance with posting documents to GeoTracker for their property. Pre-development documents are stored in GeoTracker with the following Case Numbers:

Potrero Power Plant – PG&E/Mirant: SL18380800

Station A: T10000004524

Northeast Area: T10000004520

Tank Farm Area: T10000004529

Unit 3 Power Generation Facility: T10000004528

Switchyards and General Construction: T10000004527

Offshore Area: T10000004525

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3. NOTIFICATION AND REPORTING REQUIREMENTS

Notification to the Water Board by the Owner, and subsequent approval by Water Board staff, must be made or obtained, as indicated in this section, including those associated with construction projects and/or activities requiring approval by a permitting agency, including the City and County of San Francisco (e.g., construction or grading permit). A list of reporting requirements is included in **Table 2**.

3.1 Notification for Change in Responsible Party

As required in the LUCs, the Water Board shall be notified in writing of any change in the party responsible for RMP compliance for all or a portion of the PPS. The responsible party for RMP compliance may be the property Owner, Home-Owner's Association, Master Association, or a third-party operator under contract to the Owner. Notification shall be made by the current Owner and will provide the name and contact information of the new Owner and/or responsible party. Notification of a change in ownership/responsible party shall be submitted to the Water Board within 15 days of the transaction closing date. The Notification shall be uploaded to the Water Board Geotracker website (www.Geotracker.waterboards.ca.gov).

The new Owner or responsible party will be required to enter into a Cost Recovery Agreement with the Water Board to cover oversight costs. The new Owner/responsible party shall also update contact information in GeoTracker for the specific property acquired. The Water Board will initiate the Cost Recovery Agreement discussions within approximately 30 days of receiving the notification of the change in ownership/responsible party. The Water Board will then forward a Cost Recovery Agreement and estimate to the new Owner/responsible party. The owner/responsible party will respond to the estimate within 10 days of receipt and return the attached acknowledgement form.

3.2 Notification for RMP Compliant Submittals

The Owner must notify the Water Board in writing at least 60 days prior to performing any activity that triggers compliance with this RMP, as defined in **Section 2,** except in the case of emergency, as provided in **Section 3.2**. Notifications are the responsibility of the Owner. For major development work, the Owner will request an initial scoping meeting with the Water Board to discuss the planned activity and the applicability of this RMP to the activity. The outcome of the scoping meeting will include a listing of the information to be provided to the Water Board in the written notification. At a minimum, each notification package must include the following:

- Description of current Site conditions within the proposed limits of work;
- A description of the proposed durable cover disturbing activity, together with appropriate exhibits to illustrate the location and/or issue that triggers the notification;
- Engineering design drawings stamped by a California licensed Professional Engineer describing construction of the applicable components of the remedy, including re-installation of the durable cover in accordance with this RMP;
- Copies of project-specific plans such as a Project health and safety plan, spill response plan, stormwater pollution prevention plan, dust and air monitoring plan, etc.; and

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- A project schedule, prepared to track activities and installation or restoration of the remedy (e.g., reinstallation of the durable cover) following completion of the durable cover disturbing activity.

For projects that involve ground disturbing activity that penetrate the durable cover but that are less than 50 cubic yards in total volume of soil or an area of 1,250 sf or less of durable cover disturbed, the Owner shall submit a "Notice of Intent to Conduct Ground Disturbing Activity" no less than three days prior to initiating the work. A notice template for ground disturbing activities is included in **Appendix F**. All notification packages shall be uploaded to the Water Board Geotracker Website (www.Geotracker.waterboards.ca.gov). Once the notification package is submitted to the Water Board and the applicable review or notification period (e.g., 60 days or 5 days as described above) has passed without Water Board comment, the project proponent may proceed with the ground disturbing activity without a formal approval letter from the Water Board.

3.3 Notification of Emergency Repairs or Activity

In the event that emergency repairs to subsurface features (e.g., utilities) are required and timely notification is not possible, the Water Board shall be notified within 48 hours of initiation of the activity. Minor ground disturbing activities, such as maintenance of the durable cover or landscaping activities that breach the durable cover but do not access the underlying existing soil, shall be documented by the Owner in an Annual Report submitted to the Water Board (**Section 3.6** and **Appendix E**). The documentation shall show compliance with the RMP and include photographs of the work performed and the final condition of the area.

3.4 Notification of RMP Variance Submittals

If a one-time project-specific variance from the Sitewide RMP is requested, in addition to the items discussed above in **Section 3.1**, the notice must also include:

- A precise description of the request and reason for variance from the Sitewide RMP.
- An analysis and reasoning of how the variance is protective of human health and the environment, stamped by a California licensed Professional Engineer.

Sitewide RMP variance requests must be submitted at least 60 days prior to performing the activity and the Owner may not proceed with the project until the Water Board has approved the variance. The Water Board will attempt to respond to a variance request within 30 days of receipt of notification.

3.5 Vapor Intrusion Mitigation Design Reports

As identified in **Table 1**, vapor intrusion mitigation is a required engineering control in certain development blocks to provide for adequate protection of human health in future occupied buildings (**Section 6.4**). No less than 60 days prior to vertical construction of any building on the development blocks requiring a vapor intrusion mitigation system (VIMS), the Owner/developer shall submit a VIMS Design Report to the Water Board for review and approval.

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3.6 Completion Reports

Following completion of the construction work requiring compliance with this Sitewide RMP, the Owner shall prepare a Completion Report for submittal to the Water Board. One of the purposes of this report is to document the activity and, if necessary, any corrective actions implemented, in the event the construction work had any unforeseen impact. The Completion Report shall include the following components, as appropriate:

- Description of activities performed;
- Boring logs/well completion diagrams;
- Laboratory analytical reports;
- Waste disposal manifests;
- As-built drawings of the components of the remedy, including the durable cover, VIMS, or other engineered control, stamped by a California licensed Professional Engineer;
- All permits and inspection reports of the installed remedy components, including the durable cover, VIMS, or other engineered control stating that it was properly installed and inspected by a California Professional Engineer licensed in the technical area representative of the work;
- A long-term maintenance and monitoring plan for any permanent remedy components (i.e., VIMS) not covered by the Durable Cover O&M Plan presented in **Appendix E**; and
- Other appropriate documentation or components as specified as a condition of undertaking the subject activity and/or required by the Water Board and/or regulatory agencies.

The Owner shall submit completion reports to the Water Board, and any other applicable third parties and/or regulatory agencies, within 90 days of completing the Sitewide RMP-compliant activities.

The Water Board will review all completion reports to confirm that the actions taken are consistent with the Sitewide RMP procedures and protocols. Within approximately 60 calendar days of receiving a completion report, the Water Board will notify the Owner of any discrepancies or deficiencies in the completion report. The Owner and regulators will work collaboratively to resolve such issues. Upon concluding that the actions taken are consistent with the Sitewide RMP, the Water Board will issue an approval letter for the completion report.

It is acknowledged that development construction may occur in phases over significant periods of time. To accommodate a phased construction, completion reports will be submitted for approval on a Development Block-by-Development Block basis for major development activities or on a project-by-project basis for small development and/or O&M projects.

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3.7 Annual Inspection and Reporting

The Owner must conduct annual inspections in the fourth quarter of each year, complete an Annual Report and O&M Checklist (**Appendix E**), and submit the Annual Report and O&M Checklist to the Water Board and upload to GeoTracker by March 31 of each year. The report prepared by the Owner will include the results of the annual inspection, O&M activities conducted, and self-certification of compliance with the LUCs and Sitewide RMP.

Should the Owner discover any actions or conditions inconsistent with the Sitewide RMP at any time, including during the annual Site inspection, the Owner will prepare a written explanation indicating the specific inconsistencies and what efforts or measures the Owner has taken or will take to correct those inconsistencies. The Owner shall provide the written explanation to the Water Board within 15 working days of discovery of a condition that is not compliant with the Sitewide RMP.

The Owner is ultimately responsible for the annual inspection and reporting requirements and incident reporting that is outside of the annual inspection process. In the event that there are multiple Owners of the PPS, all of the Owners shall cooperate and work together to provide the Water Board with a single submittal for each development block that meets the annual inspection and reporting requirements; however, each Owner remains responsible for compliance with all aspects of the Sitewide RMP for their respective portions of the PPS. The Owner shall work with the Developer, building owner/operators, and/or regulatory agencies to correct any problem(s) discovered and cooperate with the agencies during the performance of their inspection and enforcement responsibilities.

3.8 Additional Reporting Requirements

The Water Board, for larger infrastructure or development projects, may require that the Owner provide regular progress/status reports on construction activities and/or compliance with the requirements of the Sitewide RMP.

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4. BACKGROUND AND SUMMARY OF ENVIRIONMENTAL CONDITIONS

4.1 Site History

Different areas of the PPP have been used for various commercial and industrial activities since 1872, including sugar refining, barrel manufacturing, electric power generation, and a manufactured gas plant (MGP). The last of these activities, electric power generation, was concluded in 2011.

In 1872, City Gas Company began operating the Potrero MGP in the Northeast and in Tank Farm Areas (**Figure 2**). PG&E acquired the Potrero MGP in 1906 and operated it until 1930, when the plant was placed on standby upon arrival of natural gas in the San Francisco Bay area. Gas from the MGP facilities fed the adjacent Station A steam electric plant as well as other uses. The MGP facilities were dismantled in the early 1960s. Following MGP operations, the Tank Farm Area has been used for the storage of fuel oil and distillate fuels including diesel in three aboveground storage tanks (ASTs) for electric power generation operations.

Historical operations within the Station A and Unit 3 Areas included power generation and sugar refining, which were initiated in the early 1880s. Sugar refining continued until the 1950s and electric power generation until 2011. The Station A electric power generation facility, which was constructed in 1910, used steam turbines to generate electric power until the late 1960s. A gas holder used for storing manufactured/natural gas was located west of the Station A building. The gas holder was decommissioned and removed by the late 1970s. The Station A building is currently vacant, locked, and has restricted access. The Power Unit 3, which was constructed in 1965, used steam turbines to generate electric power until the power generation operations were discontinued and closed in 2011. The Unit 3 electric power plant is currently vacant, secured, and has restricted access.

The South Switchyard was used for barrel manufacturing from the 1880s to the early 1900s, when barrel manufacturing activities were relocated to the North Switchyard area. Prior to the occupancy by the barrel company, the North Switchyard area was occupied by the Pacific Refining and Roofing Company. By 1963, historical site structures had been removed and PG&E was using these areas for parking and storage. By the end of the 1960s, the structures and associated equipment of the Switchyard (now referred to as the South Switchyard) had been constructed. In 2002, PG&E expanded the South Switchyard northward across Humboldt Street, creating the North Switchyard.

Historical use associated with the General Construction Yard was primarily storage of manufactured gas in a 10-million-cubic-foot aboveground gas holder. The gas holder was constructed in the mid-1920s and the aboveground structure was dismantled at some point between 1963 and 1985, when the area was converted to a maintenance yard and administration area. Although the concrete foundation for the former gas holder is still present, various subsurface features including portions of fuel oil lines, associated steam lines, electrical conduits and support structures were either removed or abandoned in place at the Switchyard and General Construction Yard in the fall of 2003.

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4.2 Geologic and Hydrogeologic Conditions

Subsurface areas of the Site have been significantly influenced by the extensive placement of fill. Much of the Site was formerly submerged beneath the bay. The western part of the PPP was filled primarily between 1870 and 1880 (Geomatrix Consultants, Inc. [Geomatrix], 2000) with some additional fill added to the eastern boundary in the 1950s to bring the ground surface near its current grade and extent. The source of the fill imported to the PPP prior to the 1950s is not known; however, information obtained from previous subsurface investigations indicates that the fill material is highly variable both laterally and vertically, consisting of locally derived crushed serpentinite bedrock (a source of NOA), building debris, clays, sands, and possibly waste material from former industrial operations at the PPP (Geomatrix, 2000). As part of the remediation at the Northeast Area in 2017 and 2018, some impacted fill was removed, ISS was implemented, and clean fill was imported and placed to restore the elevation of the original ground surface.

In general, the fill overlies Bay Mud and lean clay with some fine sand, except in the western part of the PPP, where it overlies serpentinite bedrock. The depth to Bay Mud where present ranges from approximately 10 to 52 feet below ground surface (bgs). The thickness of the Bay Mud ranges from absent in the western part of the Site to greater than 40 feet in some areas along the shoreline.

A heterogeneous layer composed of clay, silt, sand and gravel was encountered at many locations directly above the bedrock contact, beneath the Bay Mud (or the fill where the Bay Mud unit is absent). This layer ranges from 1 foot to approximately 10 feet in thickness. These materials likely are the result of natural weathering of the bedrock, as evidenced by similarity to serpentinite mineral composition and color, and/or to older sediments (Haley & Aldrich, Inc. 2016a).

Shallow groundwater beneath the PPP is present in the fill material above the Bay Mud. Groundwater flow is primarily to the east-southeast, with the observed depth to groundwater ranging from approximately 6 to 20 feet bgs. Based on its low permeability, Bay Mud acts as a lower boundary (confining layer) to the vertical flow of groundwater; the fill material permeability is much greater than the Bay Mud (Haley & Aldrich, 2016a). The groundwater generally flows from the west to the east, toward San Francisco Bay. Groundwater quality is generally considered poor due to interaction with potentially contaminated fill material, historical and current heavy industrial activity in the vicinity, and salt-water intrusion from San Francisco Bay. There is no current or reasonably anticipated beneficial use of groundwater at the PPP as a source of drinking water. In accordance with the Water Quality Control Plan for the San Francisco Bay Basin, the PPP is within Groundwater Basin 2-40, Downtown San Francisco, which has been proposed for de-designation as a potential source of drinking water by the Water Board due to generally poor quality and other factors (Water Board, 1996).

Groundwater is tidally influenced within approximately 100 feet of the shoreline. Through field measurements and groundwater hydraulic modeling, it was found that the complex groundwater flow dynamics present in this inter-tidal setting limit groundwater discharge to the Bay to a relatively narrow seepage band near the mean lower low water (MLLW) elevation (Geomatrix, 2008).

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4.3 Environmental Investigation and Remediation Activities

This section provides a summary of environmental conditions in each area of the PPS. Reports documenting the results of the environmental conditions are available for review at the Water Board's office (Region 2) and the GeoTracker website (https://www.geotracker.waterboards.ca.gov). Figures showing historical sampling locations and tables summarizing analytical results are included in **Appendix D**.

4.3.1 Station A and Unit 3 Areas (Development Blocks 5, 7, 8, 11, 12, 15, and a Portion of Block 9)

Several environmental investigations and two human health risk assessments (HHRAs) were conducted by PG&E at the Station A and Unit 3 Areas. Soil, groundwater, and soil vapor samples were collected as part of these investigations to evaluate for the presence of COPCs.

The results of the investigations and HHRAs were used by PG&E as a basis to identify COPCs in soil, soil vapor, and groundwater. COPCs within Station A include polycyclic aromatic hydrocarbons (PAHs) and NOA. COPCs within Unit 3 include metals, PAHs, NOA, VOCs, and polychlorinated biphenyls (PCBs). The results of the investigations and HHRAs indicated that, based on existing industrial land use and conditions, potential exposures to COPCs in soil, groundwater, and soil vapor do not present an unacceptable human health risk for current and future commercial/industrial workers, including occasional visitors, due to the presence of the existing durable cover. If intrusive work (e.g., soil excavation) occurs, or the existing durable cover (e.g., existing buildings and hardscape such as concrete/asphalt) is removed, risk reduction and/or risk management measures should be implemented to mitigate potential health risks associated with exposures to COPCs. The risk reduction and/or risk management measures proposed include intuitional and engineering controls, as documented in this Sitewide RMP.

The Station A HHRA was approved by the Water Board in its letter to PG&E dated February 12, 2012, and a Station A Area RMP was approved by the Water Board in its letter to PG&E, dated February 13, 2017. The Unit 3 Area HHRA was approved by the Water Board. The remedy approved by the Water Board for Station A and Unit 3 includes compliance with LUCs and implementation of the Station A RMP for both areas. This Sitewide RMP replaces the RMP previously prepared for the Station A and Unit 3 Areas and will be used to implement engineering controls across the entire PPP.

4.3.2 Northeast Area (Development Blocks 4 and a Portion of Block 9)

Historical releases of chemical residues to the subsurface in the Northeast Area were primarily associated with former MGP operations. Investigations focusing on characterization and delineation conducted through 2011 are summarized in the Feasibility Study (FS) for the Northeast Area (Haley & Aldrich, Inc., 2012). A HHRA for the Northeast Area was completed in 2011 (AMEC Geomatrix, Inc. [AMEC], 2012). Additional investigations were performed to refine the limits of continuous and discontinuous dense non-aqueous phase liquid (DNAPL) (Haley & Aldrich, Inc., 2013). The findings of these investigations, risk evaluations and the selected remedial action are summarized in the Remedial Action Plan (Haley & Aldrich, Inc., 2016a). The approved remedy at the Northeast Area included excavation, ISS of two continuous DNAPL areas

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(northern and southern), installation of durable covers, and risk management measures including intuitional controls in the form of a LUC and compliance with an RMP.

Remedial action at the Northeast Area was completed in 2018 and included excavation and ISS of two continuous DNAPL areas (northern and southern) and installation of durable covers over the entire Northeast Area. Soil above the groundwater surface (approximately 5 to 12 feet bgs) in the continuous DNAPL areas was first excavated and disposed of at the Waste Management Landfill in Altamont, California, and the Republic Services ECDC Environmental Landfill in East Carbon, Utah. Continuous DNAPL in soil below the groundwater surface was then immobilized through soil mixing with augers and solidification by the addition of cementitious binders and other reagents to form a low permeability solidified soil mass. The treated interval of DNAPL impacted material extended to elevations of approximately 42 feet below mean sea level. Upon completion of the ISS activities, the remaining space above the ISS areas (approximately 4 feet or more) was backfilled with imported clean fill material, and the surface was generally restored to its pre-existing elevation. Constituents of concern (COCs) remaining in post-remediation conditions include VOCs, semi-volatile organic compounds (SVOCs), total petroleum hydrocarbons (TPH), PAHs, PCBs, and metals.

A durable cover was then established across the entire Northeast Area. The durable cover includes asphalt concrete paving, gravel, crushed stone, and pre-existing pavement and impervious structures. The remedial action was documented in a Remedial Action Completion Report (RACR) (Haley & Aldrich, 2019a) and approved by the Water Board in a letter dated January 13, 2020. The remedy also included compliance with an LUC and implementation of an RMP. This sitewide RMP addressed the risk mitigation engineering controls for the Northeast Area.

While active remediation of the Northeast Area has been completed, residual contaminants remain encapsulated within the ISS matrix, and also in soil beneath the durable covers outside the areas of ISS. The Northeast Area Post-Remediation Performance Monitoring and Conditions Report (Terra Pacific Group [TPG], 2020a) concluded that residual COPCs remaining in soil and soil vapor (via the vapor intrusion pathway) are above the acceptable risk range for future commercial workers. Accordingly, the HHRA concluded that long-term risk management in the form of a Risk Management Plan and institutional controls is warranted for the protection of future commercial populations in the Northeast Area (TPG, 2020a). While the ISS matrix is a stable low permeability soil/cement mass in its undisturbed condition, disturbance of the ISS mass can result in exposures to construction workers that represent a potential health and safety risk. Similarly, disturbance of the contaminated soil outside of the ISS area can result in exposures to construction workers that represent a potential health and safety risk. This material also poses a vapor intrusion risk for future buildings constructed for human occupancy. Engineering/institutional controls that are necessary for the Northeast Area outside of the ISS area are documented in the CBC LUC and Section 6.1 of this **Sitewide RMP**.

4.3.3 Tank Farm Area (Development Blocks 2, 3, and a Portion of Block 1)

Numerous environmental investigations were conducted at the Tank Farm Area before the removal of the ASTs between 1986 and 2011, including soil, soil vapor and groundwater testing. The tanks were demolished and removed from the PPP in 2017. In late 2017 and 2018, a comprehensive subsurface investigation was conducted to further define the extent of potential impacts to soil,

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soil vapor, and groundwater resulting from the historical operations (MGP, fuel storage, and historical filling activities) (Haley & Aldrich, Inc., 2018). COPCs include VOCs (benzene and ethylbenzene), PAHs, TPH, metals (lead, arsenic, nickel, cobalt, thallium, vanadium), PCBs (Aroclor 1260), and cyanide.

Soil vapor sampling results show benzene, ethylbenzene, and naphthalene as COPCs detected above their respective screening levels. While these exceedances were observed in samples collected across the Tank Farm Area spatially, concentrations were found to vary significantly over short distances and time. Based on the data gathered to date, soil vapor impacts above commercial/ industrial screening levels are generally limited to the eastern portion of the Tank Farm Area. The highest concentrations are associated with visible impacts such as lampblack, tarry material, and non-aqueous phase liquid, and are likely associated with former MGP operations.

An HHRA was conducted to assess whether the levels of chemicals detected at the Tank Farm Area could pose a potentially unacceptable risk to human health based on the current industrial use and potential future property uses (Haley & Aldrich, 2019b). The HHRA concluded that levels of COPCs in soil may require some remediation or other forms of risk management (e.g., institutional and/or engineering controls) prior to potential redevelopment of the Tank Farm Area for commercial/industrial land purposes, and to protect the health of future onsite construction workers involved in redevelopment and onsite maintenance work. Also, remediation or other forms of risk management may be required to address potential vapor intrusion concerns from COPCs in soil vapor. This sitewide RMP incorporates the necessary elements of long-term risk management for the Tank Farm Area (**Section 6.2**).

PCBs detected in soil were evaluated for applicability to the Toxic Substances Control Act (TSCA). Following consultation with Ms. Sara Ziff of United States Environmental Protection Agency (USEPA), Region 9 on February 9, 2019, and the results of a detailed review of multiple lines of evidence, it was concluded that that PCBs in fill material at the Tank Farm Area are exempt from TSCA requirements because PCB containing fill was placed onsite before TSCA became law in 1976. The results of the PCB evaluation were documented in two letters transmitted to Ms. Sara Ziff on March 25, 2019, and June 24, 2020, prepared by TPG. Although PCBs in soils are exempt from TSCA under current undisturbed conditions of the Tank Farm Area soils, any excavation or disturbance of soils must be conducted in accordance with TSCA regulations and soils removed from these areas cannot be re-graded or re-used onsite, and must be disposed offsite in strict accordance with TSCA regulations. Additionally, the handling of PCB soils in accordance with TSCA includes very specific and prescriptive sampling, profiling, and delineation requirements prior to removal. **Figure 3** shows the generalized area of elevated PCBs in soil that coincides with the eastern half of Block 2 and western half of Block 3.

A Remedial Plan (TPG, 2020b) was approved by the Water Board (Water Board, 2020), and incudes maintenance of existing durable covers that currently cover the entire Tank Farm Area in addition to the application of a LUC and compliance with an RMP. Engineering/institutional controls that are necessary for the Tank Farm Area are documented in the CBC LUC and Section 6.1 of this Sitewide RMP. This Sitewide RMP and associated LUC is intended to satisfy the Water Board requirement for the Tank Farm Area remedy.

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4.3.4 Switchyard and General Construction Yard (Development Blocks 13, 14, and a Portion of Block 1)

Although environmental investigations conducted in the 1990s at the PPP include some soil and groundwater sampling within or adjacent to the Switchyard and General Construction Yard, a comprehensive soil and groundwater investigation and HHRA were conducted in 2002 for these sites (Geomatrix, 2003). Areas of potential environmental concern within the Switchyard consist primarily of the presence of carbon-rich material observed in the fill during historical trenching and the presence of petroleum constituents associate with the oil catch basin. Areas of potential environmental concern in the General Construction Yard are limited to chemicals typically associated with San Francisco fill and operation/maintenance of the former aboveground gas holder.

Chemical constituents detected in soil, primarily in the Switchyard area, include VOCs (e.g., benzene, toluene, ethylbenzene and total xylenes [BTEX]), PAHs (including naphthalene and benzo(a)pyrene), TPH, pesticides, phenols, metals (including arsenic, lead, nickel, and total chromium), and chemical constituents detected in groundwater include PAHs, diesel-range TPH, select metals, and cyanide. Results of the HHRA (Geomatrix, 2003) indicated that, based on the existing industrial site land use and site conditions, potential exposures to chemicals in soil do not present an unacceptable human health risk for commercial workers, construction workers, or maintenance workers. Further, the HHRA indicated that if future land use of the Switchyard and General Construction Yard changes from industrial to commercial/residential, the potential health risks posed by chemicals in site soil should be re-evaluated. The remedy approved by the Water Board for the Switchyard and General Construction Yard includes compliance with LUCs and implementation of the RMP for both areas. This Sitewide RMP replaces the RMP previously prepared for the Switchyard and General Construction Yard and will be used to implement engineering controls across the entire PPS.

4.4 Summary of the Remedy Components

The key components of the remedy that has been implemented in the PPS are summarized as follows:

- Active remediation in the Northeast Area using ISS to immobilize heavy hydrocarbons present as DNAPL in the soil column.
- Engineering controls, including the installation of durable covers over existing soil across the PPS to prevent direct human exposure to COPCs in the existing soil; dust control during construction; soil management controls; groundwater management controls; and VIMS in areas where soil vapors pose a threat to future land uses. The engineering controls are documented in **Sections 5 and 6** of this Sitewide RMP.
- Institutional controls, which include restrictions on the use of groundwater, include restrictions on sensitive land uses in certain areas of the PPS, and require compliance with this Sitewide RMP and the O&M Plan(s) for the PPS. Institutional controls are documented in the LUCs for the PPS **(Appendix A**).

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- Continued compliance with this Sitewide RMP, particularly for any activity that disturbs or removes the durable cover, such as during future redevelopment for other land uses.
- Compliance with O&M Plan(s) designed to ensure long-term functionality and protectiveness of engineering controls, including durable covers and vapor mitigation systems, to ensure that they continue to function as designed.

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5. RISK MANAGEMENT PROTOCOLS REQUIRED FOR THE ENTIRE SITE

This section outlines the protocols that are required to maintain the durable cover and for any activity that disturbs or removes the durable cover at the Site, regardless of environmental condition, development activity, or land use.

5.1 Durable Cover

The durable cover is a component of the remedies for all areas of the PPS and must be maintained. The objective of the durable cover is to provide a physical barrier to prevent exposure of the underlying existing soil to users of the Site. The "durability" of the cover should be such that a typical user cannot penetrate the cover by simple means (without mechanical equipment) and access the underlying existing soil. At any time a durable cover is removed and the underlying existing soil is exposed (i.e., during construction), the Owner shall implement the protocols included in this **Section 5** (access controls, construction worker health and safety, spill prevention, soil management, dust control, odor control, stormwater management, groundwater management, etc.) and **Section 6**, as applicable. Existing soil shall not be exposed during continuous development construction activity without a final durable cover for a period exceeding five years, during which time the protocol in **Sections 5 and 6** must be maintained.

Because the planned development of the PPS will occur in time-discrete phases over several years, the durable cover may exist in different configurations throughout the development period, all of which must meet the objective of the durable cover component of the remedy. The durable cover may exist in the following configurations:

Existing Durable Cover: The existing buildings, asphalt pavement, and other hardscape constitute a durable cover that acts as a physical barrier which protects current users against the potential exposure of contaminants in the existing soil that may impact human health. Disturbance or removal of the existing durable cover will trigger implementation of the protocols included in this section (access controls, construction worker health and safety, spill prevention, soil management, dust control, odor control, stormwater management, groundwater management, etc.), and **Section 6**, as applicable, until such time that a final durable cover is re-established.

Temporary Durable Cover: A temporary durable cover may be installed during the horizontal development stages of the project, between the completion of horizontal development and the start of vertical development, or at any time when existing soil is exposed and construction work has been temporarily suspended. The temporary durable cover may be installed at discrete locations or on specific development blocks while development work is occurring in other areas at the discretion of the Owner/developer. A temporary durable cover may remain in place and be maintained until development activity is re-initiated at that location. Appropriate temporary durable cover materials include any of the following: i) materials identified as appropriate for the final durable cover; or ii) a 12-inch-thick layer of compacted clean soil over a demarcation layer; or iii) a 4-inch-thick layer of compacted gravel over a demarcation layer; or iv) a 2-inch-thick layer of asphalt over a 2-inch layer of sub-base material over a demarcation layer. Alternative temporary durable cover configurations must be approved by the Water Board. The Owner/Developer is

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required to maintain the integrity of the temporary durable cover in accordance with the Durable Cover O&M Plan (**Appendix E**) to ensure that it meets the durable cover performance objective.

Final Durable Cover: A final durable cover must be installed and in place upon completion of the horizontal and vertical development of the PPS and prior to issuance of a certificate of occupancy in buildings or a certificate of completion for parks, open space, and streets. Appropriate final durable cover materials include engineered hardscape (e.g., concrete building foundations, asphalt and concrete paving, shoreline rip-rap, and landscape interlocking paver blocks) or softscape. Softscape (e.g., clean soil and/or landscape soil) must be a minimum of 4 feet thick in parks, open space, playgrounds, and landscaped planters, must meet the import criteria for cover/landscape soil (**Section 5.5.3**), and must be underlain by a demarcation layer. The Owner/Developer is required to maintain the integrity of the final durable cover in accordance with the Water Board approved Durable Cover O&M Plan (**Appendix E**) to ensure that it meets the durable cover performance objective. Following the installation of the final durable cover or any intrusive activities associated with minor construction, utility repairs, and cover maintenance where the durable cover is disturbed or removed, the final durable cover shall be replaced by the Owner or Contractor as soon as practicable after the work has been completed. The O&M Plan describes procedures for the construction, inspection, maintenance, and repair of final durable covers. The Owner/developer may request approval from the Water Board for an alternate durable cover configuration (e.g., a thinner layer of clean soil, an alternate hardscape material, etc.). Any alternative final durable cover configurations must be approved by the Water Board prior to construction.

5.2 Access Control During Construction

Access to the PPS during construction and maintenance activities where the durable cover has been removed and existing soil is exposed will be limited to authorized personnel. The potential for trespassers or visitors to gain access to construction areas and come into direct contact with existing soil will be controlled through the implementation of access and perimeter security measures, including the following:

- Security fencing will be placed around any portion of the PPS where the durable cover has been disturbed and existing soil is exposed to prevent pedestrian/vehicular entry except at controlled (gated) points. Gates will be closed and locked during non-construction hours. Fencing will consist of a 6-foot chain link or equivalent fence unless safety considerations warrant the use of a higher fence. Use of fences during small routine maintenance activities will be determined by the Owner on a project by project basis. Barricades and/or barrier tape may be used for situations involving small maintenance activity where construction personnel are onsite during the entire time the existing soil is exposed.
- In areas of high traffic, use of a combination of K-rails or similar barriers and fences with locked gates may be appropriate.
- Signage shall be posted on the perimeter fencing identifying that the area is a restricted area and accessible only by permission.

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Emergency contacts shall be identified and posted onsite in the construction job trailer. Emergency contacts should include, at a minimum, Police, Fire, Ambulance, Owner representative, Water Board Case Manager, SFDPH Case Manager, and the General Contractor representative.

Implementation of appropriate site-specific measures as outlined above will reduce the potential for trespassers or visitors to gain access to construction areas and to come into direct contact with soil or groundwater. Compliance with the specific access control measures is the responsibility of the Owner.

5.3 Construction Worker Health and Safety

Construction contractors, maintenance contractors, and utility contractors whose workers may contact potentially contaminated soil, soil vapor, or groundwater are required to prepare site-specific Environmental Health and Safety Plans (EHSPs) under the direction of a Certified Industrial Hygienist (CIH) and in a manner consistent with applicable occupational health and safety standards, including, but not limited to, Occupational Safety and Health Administration 1910.120. The contractor-specific EHSPs will be maintained by each contractor at the Site. Nothing in this section is intended to relieve any person, including contractors or employers, of other mandated worker health and safety planning and training requirements under any federal, state, or local statute or regulations.

It is the responsibility of the contractor preparing their EHSP to review information available in **Section 4** and **Appendix D** regarding Site conditions and associated potential health and safety concerns. It is also the responsibility of the contractor or other person preparing an EHSP to verify that the components of the EHSP are consistent with applicable Cal/OSHA occupational health and safety standards and currently available toxicological information for potential COPCs in the work area. Applicable requirements may include, but are not limited to, the following:

- Injury and Illness Prevention Program (8 California Code of Regulations [CCR] 1509 and 8 CCR 3203);
- Hazardous Waste Operations and Emergency Response (8 CCR 5192);
- Hazard Communication (8 CCR 5194);
- Personal Protective Equipment (8 CCR Article 10);
- Respiratory Protective Equipment (8 CCR 5144);
- Control of Noise Exposure (8 CCR 5095-5100);
- Excavations (8 CCR 1503 and 8 CCR 1539-1547);
- Fire Prevention and Suppression Procedures (8 CCR 4848);
- Portable Fire Extinguishers (8 CCR 6151);
- Cleaning, Repairing, Servicing, and Adjusting Prime Movers, Machinery, and Equipment Lockout/Tagout (8 CCR 3314); and
- Medical Services and First Aid (8 CCR 3400).

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Guidelines provided in this Sitewide RMP apply only to the classes of COPCs discussed in **Section 4** and do NOT address health and safety issues related to any other hazards or activities at the construction area (including, but not limited to, activities related to trenching, shoring, heavy equipment hazards, and weather-related hazards) These guidelines represent minimum health and safety measures related to COPCs. Additional measures may be implemented at the discretion of the Owner and/or Contractor in light of the specific construction/maintenance tasks to be performed. Each construction contractor will ensure that its onsite construction workers will have the appropriate level of health and safety training, site-specific training, and will use the appropriate level of personal protective equipment (PPE) as determined in the relevant EHSP based upon the evaluated job hazards and monitoring results. An example EHSP outline is included in **Appendix G**.

5.4 Spill Response Procedures

The Owner or Owner's representative shall prepare a Project-Specific Spill Response Plan to address the event of a spill or release of hazardous substances or waste materials that may adversely impact human health or the environment during maintenance or construction activities. The Spill Response Plan shall follow the requirements of the California Oil Spill Contingency Plan. A copy of the Spill Response Plan shall be provided to the Water Board in the initial project notification submittal (**Section 3.1**).

5.5 Soil Management Protocols

To the extent possible, soil excavated during development construction or maintenance is to be reused so that offsite removal and disposal of soil is minimized. Existing soil that is excavated may be re-used within the Site as long as it is placed on CBC-owned property beneath a durable cover, subject to the conditions specified in **Section 5.5.1**. Handling and management of existing soil, imported soil, and soil hauled offsite for disposal must follow the protocol outlined in this section. During any soil handling activity, dust control measures in accordance with Cal/OSHA, BAAQMD, and SFDPH requirements shall be used when handling existing soil as outlined in **Sections 5.6,** and **Appendix I**.

5.5.1 Reuse of Existing Soil

Existing soil that is to be reused onsite must first be evaluated in accordance with the Onsite Soil Reuse Decision Matrix, presented in **Figure 5**. The reuse decision is made primarily using visual and olfactory indicators, supported by chemical testing as indicated (e.g., for utility trench backfill). Excavation of visibly or odorous soil beyond what is required for development purposes or to create the 2-foot-thick clean buffer zone beneath buildings (**Sections 6.1 and 6.2**) is not required as a condition of this RMP. The decision matrix identifies three broad categories of material, as follows:

1. Soil that is allowable for reuse anywhere on the Site under the durable cover, including utility trenches;
2. Soil that is allowable for reuse under the durable cover but not in utility trenches; and
3. Soil that is considered "Restricted Material" and must be disposed of offsite.

Existing soil may be managed and reused within the Site without need for sampling, provided that reuse is conducted in accordance with this Sitewide RMP, would not be considered as Restricted Material, and/or is not used in utility trenches without appropriate testing (see below).

No existing soil shall be placed within utility trenches unless it is determined, on the basis of chemical testing, that the soil would not present a health risk to future construction workers who may be directly exposed to the soil as part of utility installation or maintenance and it complies with soil quality requirements specified by the San Francisco Department of Public Works (SFDPW). This shall be determined by comparing the concentrations of COPCs in the excavated soil to the Water Board's most current construction worker and inhalation Environmental Screening Level (ESL) (e.g., Water Board, 2019) and the SFDPW utility backfill permit requirements.

Restricted Material is defined as MGP waste (coal tar, lamp black, or Prussian Blue),[1] tank bottom sludge, continuous DNAPL (e.g., soil with free flowing oil or coal tar), ISS material, sand blast grit, PCB impacted material (soil containing PCBs at a concentration greater than 1 parts per million [ppm]), or contaminated construction debris rubble such as refractory brick, transite pipe, or lead based paint coated materials. Restricted material, suspect contaminated construction debris, and any excavated existing soil that is identified for offsite disposal must be chemically tested for waste profiling and disposed of offsite in accordance with applicable regulations (**Section 5.5.4**).

Existing soil, restricted material, and construction debris may be temporarily stockpiled with adequate protection (**Section 5.5.2**) until final placement under a durable cover or transported offsite for disposal. Potential impacts from dust associated with the handling and movement of soil, soil compaction, soil stockpiling, etc., will be addressed through the implementation of appropriate dust management measures, as described below in **Section 5.6**.

5.5.2 Soil Stockpile Management Protocols

Stockpiling of excavated and/or imported soils may be necessary on a temporary basis to support the logistical phasing of construction activities. Whenever possible, soil stockpiles will be located in close proximity to the work area or the ultimate disposition area. To limit public access to stockpiled soil, stockpiled soil areas must be fenced or otherwise protected from public access.

Stockpiles will be managed in compliance with stormwater runoff and dust control requirements. In general, stockpiles must be covered with a tarp, wetted, sloped, or controlled via appropriate means and methods. Best management practices (BMPs) for erosion and sediment control will be implemented during construction activities, as specified in the Storm Water Pollution Prevention Plan (SWPPP; **Section 5.7**). Stockpiles will be under control of the Owner or contractor at all times and inspected at least weekly to ensure dust control and runoff control measures are functioning adequately and as specified in the appropriate plans.

[1] "Prussian Blue" is an MGP remediation industry term for MGP purifier wastes that once exposed at the ground surface will often develop an iridescent blue color of that name. Lampblack and coal tar are hydrocarbon-based MGP waste products and will often appear as dark material mixed within the soil and can have a mothball-like odor.

5.5.3 Soil Import Protocol

Soil may be imported to the PPS for use as grade leveling material (construction fill), agricultural landscape soil (**Section 5.5.4**), durable cover material (**Section 5.1**), utility trench backfill, or other purpose, as allowed in this Sitewide RMP. Imported fill will be managed in two categories as follows:

- Category 1 will be soil that is suitable for use as durable cover material, including agricultural soil used for landscaping. Category 1 soil is free of trash, debris, and construction debris and does not include coal or other carbonaceous material. Category 1 soil is defined as natural materials (e.g., topsoil, clay, silt, sand, gravel, rock, or a mixture or combination of such materials) that have average chemical-specific concentrations that meet the following criteria (**Table 3**):
    a. For naturally occurring chemicals (e.g., metals), the threshold concentration is an average at or below background levels typical in the Site vicinity (Lawrence Berkeley National Laboratory [LBNL], 2009).
    b. For naturally occurring asbestos, the threshold concentration is an average below 0.25%.
    c. For VOCs, SVOCs, PCBs, pesticides or other man-made chemicals, the threshold concentration is an average contaminant-specific concentration that does not exceed the Environmental Screening Level (ESL) for "Soil Tier 1" compiled by the San Francisco Bay Regional Water Quality Control Board (RWQCB, 2019). In the absence of an ESLs, the threshold concentration is an average, contaminant-specific concentration that does not exceed the lowest of a USEPA Regional Screening Level (RSL; USEPA 2020) or DTSC Screening Level (DTSC-SL; DTSC 2020).
    d. For petroleum hydrocarbons, the threshold concentration is an average TPH concentration of 50 milligrams per kilogram (mg/kg) or less in the gasoline range (C4-C12), or an average concentration of 100 mg/kg or less in the diesel range (C13-C24), or an average concentration of 1,000 mg/kg or less in the heavy oil range (C24+). The TPH for full-chain hydrocarbons (gasoline, diesel, and heavy oils) shall not exceed 1,000 mg/kg.
    e. For pH, the threshold concentration is an average pH that does not exceed 9 or fall below 6, the established criteria for pH in the Basin Plan.
- Category 2 will be imported fill soil that is suitable for use under the durable cover, including in utility trenches, to support construction and grading activities. Category 2 material is defined as natural materials (e.g., soil, clay, silt, sand, gravel, rock, or a mixture or combination of such materials) free of visible signs of trash, debris, staining, liquids, or construction debris that have average chemical-specific concentrations that meet the following criteria (**Table 3**):
    a. For naturally occurring chemicals (e.g., metals), the threshold concentration is an average at or below background levels typical in the Site vicinity (LBNL, 2009).

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b. For naturally occurring asbestos, the threshold concentration is an average below 0.25%.

c. For VOCs, SVOCs, PCBs, pesticides, TPH, or other man-made chemicals, the threshold concentration is an average contaminant-specific concentration that does not exceed the lower value of the Commercial/Industrial ESLs or the Gross Contamination ESLs. In the absence of an ESL, the threshold concentration is an average, contaminant-specific concentration that does not exceed the lowest of an RSL or DTSC-SL for commercial/industrial land uses.

d. For pH, the threshold concentration is an average pH that does not exceed 9 or fall below 6, the established criteria for pH in the Basin Plan.

Evaluation of imported soil shall follow the guidance outlined in the Department of Toxic Substances Control's (DTSC) Clean Imported Fill Material Information Advisory (DTSC, 2001), or other appropriate regulatory guidance that may supersede the DTSC Advisory. Sampling frequency, as outlined in the Advisory, will be as follows:

In-Place Source Area	Minimum Sample Frequency
2 acres or less	4 samples
2 to 4 acres	1 sample every 1/2 acre
4 to 10 acres	8 samples
Greater than 10 acres	32 samples
Source Stockpile Volume	**Minimum Sample Frequency**
Stockpile up to 1,000 cubic yards	1 sample per 250 cubic yards
Stockpile 1,000 to 5,000 cubic yards	4 samples for first 1000 cubic yards plus 1 sample per each additional 500 cubic yards
Stockpile greater than 5,000 cubic yards	12 samples for first 5,000 cubic yards plus 1 sample per each additional 1,000 cubic yards

Soil samples will be analyzed by a California State Certified Laboratory. The following analytical methods, as they may be updated from time to time by the designated agency, will be used for analysis:

1. Heavy metals (i.e., CAM 17 metals) by USEPA Method 6000/7000 Series.
2. Mercury by USEPA Method 7471A.
3. TPH by USEPA Method 8260 (gasoline range) and 8015M (diesel and motor oil range).
4. Asbestos by California Environmental Protection Agency, Air Resources Board (CARB) Test Method 435 and in accordance with the Implementation Guidance

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Document.[2] The project proponent shall request an 800-point count from the analytical laboratory in accordance with the CARB Test Method 435.

5. VOCs by USEPA Method 8260B and 1-4 dioxane by 8081A.
6. SVOCs, including PAHs, by USEPA Method 8270C.
7. Pesticides by USEPA Method 8081A/8080A.
8. PCBs by USEPA Method 8082.
9. pH by USEPA Method 9040.

The analytical data from the soil or import material testing will be compared against the import criteria for soil imported as Category 1 and 2 materials, which are listed in **Table 3**. The soil import evaluation shall be documented in a Soil Import Approval Form (**Appendix H**) and the Form together with analytical data and other supporting documentation of soil for import must be submitted to the Water Board contact person via e-mail and uploaded to GeoTracker a minimum of 5 working days in advance of the import.

The Approval Form shall indicate if the import soil strictly meets the import criteria (e.g., no exceedances of the import criteria), generally meets the import (e.g., a statistically significant number of the concentrations meet the import criteria but not all concentrations meet the criteria), or if the soil is rejected for import. All soil that strictly meet the import criteria can be imported and placed at the Site without prior Water Board approval. All soil that generally meet the import criteria must have Water Board approval prior to importing and placing the material at the Site. In this case, once approval by the Water Board has been obtained, the final Soil Import Acceptance Form, together with all data, supporting documentation and the Water Board approval must be uploaded to GeoTracker in advance of import.

Before any Category 1 imported material is placed on top of the existing soil or any relocated existing soil, a demarcation layer shall be placed between the existing soil and the Category 1 import material, unless the soil will be placed beneath a final durable cover, such as a building foundation, road, or sidewalk. The demarcation layer shall be a brightly colored visual and physical indicator that contaminated/existing soil may be present below the layer. The demarcation layer is not intended to be impermeable to water but rather is intended to serve as a physical indicator that the bottom of the durable cover has been reached and existing soil exists beneath the demarcation layer. Because the layer of Category 1 fill is considered the durable cover, the protocols outlined in this section must be followed for excavation activities that extend below the demarcation layer into the underlying existing soil.

5.5.4 Offsite Soil Disposal

Soil that has been determined to be a Restricted Material or surplus existing soil may require offsite disposal. The objective of the waste transportation and disposal program is to handle, transport, and dispose of impacted soils according to applicable regulations and in an environmentally sound

[2] CARB. Implementation guidance document, field sampling and laboratory practices, test method 435 determination of asbestos content of serpentine aggregate. Sacramento, California. April. https://www.arb.ca.gov/toxics/asbestos/tm435/guidancedocument.pdf

and safe manner. Any offsite soil transport and disposal is subject to all applicable federal and state laws and regulations. All activities associated with waste disposal, such as truck loading, truck traffic and decontamination of trucks leaving the Site will be performed in accordance with the dust management measures provided in **Section 5.6** and any other applicable federal or state law or regulation.

5.5.4.1 Landfill Selection

All existing soil to be disposed will be taken only to a certified and permitted California landfill or an equivalent out-of-state landfill, as appropriate and as determined by the waste profile. A list of approved landfills is included in **Appendix A**. The contractor shall be responsible for confirming that the selected landfill is appropriately licensed and permitted to receiving the waste at the time of disposal.

5.5.4.2 Waste Characterization

The Owner, as the generator of the waste soil, is responsible for all testing, waste classification, selection of appropriate disposal facility, transportation, and all documentation related to offsite disposal of soil, debris, or other waste resulting from construction activities. Soil removed from the Site must be characterized and managed in accordance with Title 22 of the CCR, Division 4.5, Chapter 11, if applicable, as well as the requirements of the disposal facility and any other applicable law. It is likely that analyses for total and soluble metals (e.g., lead, nickel, and/or chromium), asbestos/NOA, PAHs, PCBs, BTEX, and TPH will be required to characterize existing soil for offsite disposal; however, the requirements of the designated landfill will take precedence in determining the waste characterization analytical suite.

5.5.4.3 Transportation and Trucking

Transportation activities will be performed in compliance with all regulations and ordinances. The selected transportation company will be certified by the USEPA and the State of California as a hazardous waste hauler permitted to haul contaminated waste material. To the extent applicable, labeling requirements for transportation of waste shall additionally be in accordance with Title 29 of the Code of Federal Regulations, Parts 172 and 173.

5.5.4.4 Documentation and Recordkeeping

Because some portions of soils to be removed and disposed offsite will may be profiled as hazardous waste under California or USEPA regulations, the Uniform Hazardous Waste Manifest (hazardous waste manifest) form will be used to track the movement of soil from the point of generation to the point of ultimate disposition. Any soil that is profiled as non-hazardous and sent offsite for disposal will be documented using a Non-Hazardous Waste Manifest or Bill-of-Lading form. Prior to transportation of soil offsite, an authorized representative of Owner will sign each hazardous and/or non-hazardous waste manifest. A manifest will be prepared for each truckload and a generator's copy will be retained by the Contractor for logging and tracking purposes.

The Contractor will be responsible for maintaining a field logbook, which will serve to document observations, personnel onsite, equipment arrival and departure times, and other important project information. Logbook entries will be complete and accurate enough to permit reconstruction of field activities.

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5.6 Dust, Asbestos, Vapor, and Odor Control Plan

Construction and/or maintenance workers may need to access soil in areas where contaminants, including NOA, may be present in existing soil. Site users and the public may also be exposed to dust and odor generated during maintenance and construction activities. Fugitive dust, asbestos dust, organic vapor, and noxious odors emitted during demolition of existing structures, grading, soil handling and stockpiling, vehicle loading, utility work, truck traffic, and construction of infrastructure are subject to the following regulatory requirements:

- Article 22B of the San Francisco Health Code, Construction Dust;
- California Air Resources Board Air Toxics Control Measure for asbestos (ATCM), Asbestos ATCM for Construction, Grading, Quarrying, and Surface Mining Operations; and
- BAAQMD Regulation 8, Rule 40, Aeration of Contaminated Soil and Removal of Underground Storage Tanks (USTs).

To comply with these requirements, protocols have been developed for controlling fugitive dust, asbestos dust, volatile organic emissions, and noxious odor emissions. A Construction Dust, Vapor, and Odor Control Plan (DVOCP) is included in **Appendix I**. A summary of the protocol presented in these plans is provided in the following subsections.

5.6.1 Construction Dust and Asbestos Dust Control Measures

Construction dust emissions are regulated under the San Francisco Health Code, Article 22B. The dust control measures set forth in the DVOCP are intended to achieve a goal of no visible construction dust emissions that leave the perimeter boundary of the PPS. The DVOCP prepared for the Site identifies the measures that will be taken to reduce particulate emissions during demolition of existing structures, grading, soil handling and stockpiling, vehicle loading, utility work, truck traffic, and construction of infrastructure. Exposure of onsite construction workers and sensitive receptors within 1,000 feet of the PPS boundary to dust containing COCs will be minimized, and generation of nuisance dust will also be minimized. The DVOCP includes protocol for establishing and implementing a perimeter air and dust monitoring program.

NOA has been found in the serpentine bedrock and soil throughout the site. Construction projects where NOA is present are subject to the CARB asbestos ATCM. For projects where surface soil contains NOA and will be disturbed in an area of one acre or larger (as defined in the ATCM), an Asbestos Dust Mitigation Plan (ADMP) approved by the BAAQMD is required. Due to the size of land that will be affected by the planned construction work, the suspected presence of NOA in the fill, and the proximity to NOA-containing bedrock, the DVOCP incorporates the necessary elements of an ADMP. The DVOCP includes protocol for establishing and implementing an asbestos dust monitoring program that complies with the asbestos ATCM.

5.6.2 Organic Vapor and Noxious Odor Control

Excavation and stockpiling of contaminated soils have the potential to emit organic vapors and noxious petroleum and/or naphthalene odors during construction. In most cases, by controlling dust emissions with the procedures discussed above in **Section 5.6.1** and in **Appendix I**, the

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emissions of odor and airborne contaminants will be significantly reduced to levels that pose an acceptable risk to the health of the public and construction workers. Based on the Northeast Area ISS remediation project, it appears that the use of odor control foam and water spray are generally adequate to control dust and vapor emissions; however, additional measures may be warranted based on the areas disturbed and conditions encountered.

Organic vapor and noxious odor control measures shall be implemented during construction, in areas where VOC emissions and noxious odors are anticipated, and dust control measures are inadequate to limit the generation of vapors and odors from onsite activities. These measures will likely include a water-based, biodegradable odor suppressant (e.g., Rusmar®, Biosolve®, or equivalent), as necessary. The DVOCP includes protocol for establishing and implementing a perimeter air monitoring program (**Appendix I**).

5.7 Construction Storm Water Management

Stormwater pollution controls shall be implemented to minimize the erosion and runoff of sediment in stormwater. Stormwater pollution controls at construction sites where the surface area of construction activities are greater than 1.0 acre in size, or for projects that disturb less than 1.0 acre but are part of a larger common plan of development that in total disturbs greater than 1.0 acre, are required under the General Permit for Discharges of Storm Water Associated with Construction Activity (currently 2009-0009-DWQ as Modified by 2010-0014-DWQ; General Permit). The Construction General Permit requires that a SWPPP be developed by Qualified SWPPP Developers (QSDs) and that implementation of the plan be performed by Qualified SWPPP Practitioners (QSPs) per Section VII of the 2009-0009-DWQ Permit (http://www.waterboards.ca.gov/sanfranciscobay/water_issues/programs/stormwater/construction.shtml).

Stormwater pollution controls shall be implemented by the Contractor(s) and will be based on BMPs. Specific practices that may be implemented to reduce the sediment load of stormwater runoff from the Site include grading to prevent stormwater from running offsite, installing stormwater control devices (earth berms, silt fences, or other barriers) around the perimeter of unpaved portions of the Site until construction is completed, and protecting existing catch basins with silt fences or gravel bags. In addition, all contractors shall store fuel and chemicals in such a manner as to prevent accidental spills from impacting stormwater (e.g., within secondary containment).

The need for specific numerical effluent limits (e.g., for pH and turbidity) depends on various factors; therefore, it is recommended that the Owner determine the need for such limits on a case-by-case basis.

5.8 Temporary Groundwater Dewatering Activities

Preparations shall be made to remove, store, characterize, and properly dispose of standing water from excavations during construction and maintenance trenching activities. Appropriate precautions may include staging a temporary storage tank. Contained water or groundwater can be disposed offsite at an appropriate facility, to the City's combined sewer system, or pre-treated and discharged to the San Francisco Bay. Prior to disposal to the City's combined sewer system, the water should be tested and permitted in accordance with the SFPUC Publicly Owned Treatment

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Works (POTW) requirements. Prior to disposal to San Francisco Bay, the water should be tested in accordance with the Water Board requirements and a National Pollution Discharge Elimination System (NPDES) application filed with the Water Board. Specific testing requirements and sampling frequency will be designated in the permit to discharge.

5.9 Unanticipated Conditions Response Protocol

It is possible that unknown, historical subsurface features and structures that are impacted by hazardous substances may remain at the PPS. If present, these structures or features may be encountered during construction activities. Unanticipated subsurface conditions impacted by hazardous substances may include, but are not be limited to, the following items:

- UST;
- Concrete vault(s);
- Underground piping; and
- Chemical impact that has resulted in visually contaminated soil and/or detectable odors that has not been previously identified.

This section establishes a protocol for the initial response to the discovery of an unknown condition that may be impacted by hazardous substances, notification protocols, and a path forward such that construction activities can continue safely.

Whenever unanticipated conditions are encountered and where hazardous substances are suspected, Contractor shall temporarily suspend work in that area, secure the work area, and evaluate the situation for health and safety hazards before any further action is taken. Contractor shall notify the Owner who will be responsible for notifying the Water Board and other appropriate agencies, as necessary. Notification requirements are outlined in **Section 5.9.3**. The Water Board shall be the lead agency for responding to all unanticipated conditions involving hazardous substances and shall direct the Owner to coordinate with other agencies at the discretion of the Water Board.

If visually contaminated soil is encountered, it shall be evaluated in accordance with the decision matrix (**Figure 5**) and Restricted Material shall be segregated from other soil. Soil management will be conducted in accordance with protocol in **Section 5.5**.

5.9.1 Field Screening

Upon initial discovery, the project proponent or onsite representative will initiate field screening and physical observation of the visually impacted or odiferous soil or other unanticipated condition. Measures may include conducting field monitoring by taking organic vapor readings using portable field screening devices such as an photoionization detector or an flame ionization detector.

5.9.2 Health and Safety

The Owner shall undertake measures to ensure worker safety in areas where unknown conditions are encountered. The Contractor's Site Safety and Health Officer (SSHO) will be responsible for evaluating any change in conditions. The SSHO may temporarily suspend work to determine if

the level of security and PPE is adequate. If warranted, the area in which the unknown condition was encountered will be secured with barricades or fencing, as appropriate, and signage will be installed to prevent unauthorized access to the area until it can be made safe to continue work. If necessary, the SSHO will amend the contractor EHSP to address new COPCs or higher concentrations of existing COPCs, as appropriate.

5.9.3 Notification

Upon discovery of a non-emergency unanticipated subsurface condition, the Owner shall notify the Water Board, other pertinent agencies, and PG&E as soon as practicable, but in no case more than five days after discovery. If any unanticipated subsurface condition is discovered, work may be temporarily suspended to allow time for the Owner or contractor to consult with an environmental professional experienced in hazardous substance handling and remediation to develop an appropriate response plan.

For UST removals, the Owner or contractor must obtain permits from the San Francisco Fire Department (SFFD) and SFDPH Hazardous Materials Unified Program Agency (HMUPA) before proceeding. If an UST containing an undefined liquid is broken open, then the contractor should immediately take action to stop or prevent a release by removing fluid, and then notify the Water Board.

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6. ADDITIONAL RISK MANAGEMENT PROTOCOLS REQUIRED FOR THE NORTHEAST AND TANK FARM AREAS (DEVELOPMENT BLOCKS 1, 2, 3, 4, AND A PORTION OF 9)

As documented in Section 4, the former MGP existed in the areas designated as the Northeast Area and Tank Farm Area. These areas correspond to Development Blocks 1, 2, 3, 4, and a portion of 9 (**Figure 4**). As a result of the former MGP operations, certain unique environmental conditions exist in the Northeast and Tank Farm areas that warrant specific RMP protocol to maintain the protectiveness of the remedy and to provide for future protection of human health and the environment. A description of the environmental conditions and remedy for these two areas are discussed in detail in **Section 4** and **Appendix D** of this RMP. This section describes the specific protocols, in addition to those required in **Section 5**, that apply to these areas.

6.1 Northeast Area (Development Block 4 and a Portion of Block 9)

As discussed in **Section 4.3.2**, active remedial action at the Northeast Area was completed in 2018 and included excavation, ISS of two continuous DNAPL areas (northern and southern), installation of durable covers over areas of subsurface continuous and discontinuous DNAPL. The ISS resulted in the formation of a low permeability solidified soil mass. Subsequently, the area above the ISS was backfilled with clean fill and the surface restored with asphalt paving and crushed gravel.

To mitigate the residual risks from COPCs in soil and soil vapor, appropriate measures must be taken when disturbing the cap in the areas of ISS, when disturbing durable covers, when excavating contaminated soil, and when constructing future buildings within the Northeast Area. Development Block 4, a portion of Development Block 9, Waterfront Park, and a portion of Humboldt Street Plaza are within the former Northeast Area. Any intrusive work or disturbance of the cap in the areas of ISS or of the durable covers outside the areas of ISS in these development areas shall be conducted with the following conditions:

- Written approval from the Water Board prior to disturbance, penetration, or removal of the durable cover or ISS materials;
- Compliance with all protocols outlined in **Section 5** of this RMP;
- Compliance with additional protocols outlined in this **Section 6**;
- The ISS is considered a restricted material and shall be handled in accordance with the **Section 5** protocol for management of restricted material (**Figure 5**);
- Any soil containing continuous or discontinuous DNAPL is considered a restricted material and shall be handled in accordance with the **Section 5** and **Section 6.3** protocol for management of restricted material;
- A buffer zone consisting of clean imported material with a minimum thickness of 2 feet will be required beneath buildings in Development Block 4; and
- Buildings constructed within Development Block 4 and the northern portion of Block 9 shall incorporate a VIMS in accordance with the protocol outlined in **Section 6.4**, unless otherwise approved by the Water Board.

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6.2 Tank Farm Area (Development Blocks 2, 3, and a Portion of Block 1)

As described in **Section 4.3.3**, the Tank Farm Area is the location of a historical MGP and the location of three large ASTs that stored bunker and diesel fuels used to power the Unit 3 generator and peaking units. The Tank Farm Area Human Health Risk Assessment (Haley & Aldrich, Inc., 2019a), concluded that concentrations of COPCs in the soil, soil vapor, and groundwater represent conditions outside the acceptable risk management range for construction workers. A Tank Farm Remedial Plan (TPG, 2020b), requires remedial measures in the form of a durable cover, vapor intrusion mitigation beneath occupied buildings, institutional controls limiting use of the Site to commercial/industrial uses and an RMP in the form of this document. Development Blocks 1, 2, and 3, Louisiana Street, Maryland Street, Delaware Street, and a portion of Humboldt Street are within the former Tank Farm Area/MGP. Any intrusive work or disturbance of the durable covers in these development areas shall be conducted with the following conditions:

- Written approval from the Water Board prior to disturbance, penetration or removal of the durable cover;
- Compliance with all protocols outlined in **Section 5** of this RMP;
- Compliance with additional protocols outlined in this **Section 6**;
- Any soil containing continuous or discontinuous DNAPL or PCBs at a concentration greater than 1 ppm is considered a restricted material and shall be handled in accordance with the **Section 5** and **Section 6.3** protocol for management of restricted material;
- A buffer zone consisting of clean imported material with a minimum thickness of 2 feet will be required beneath buildings in Development Blocks 1, 2, and 3; and
- Buildings constructed within Development Blocks 1, 2, and 3 shall incorporate a VIMS in accordance with the protocol outlined in **Section 6.4**, unless otherwise approved by the Water Board.

6.3 Soil Excavation and Offsite Disposal

The Site investigation and human health risk assessments prepared by PG&E for the Tank Farm Area and Northeast Area found that MGP-related COPCs remained in the soil at levels that pose potential health risks to commercial workers and were also the source of elevated COPCs in the soil vapor. To mitigate this condition, all "restricted" (**Figure 5**) materials in Development Blocks 1, 2, 3, 4, northern portion of 9, Waterfront Park, and Humboldt Street Plaza (former MGP area) that are excavated for the purposes of development construction associated with mass grading, building foundation construction, sub-terranean garage construction, utility corridors, and streets/alleys or other roadways must be hauled offsite for disposal at one of the approved landfills listed in **Appendix A**. PCB-impacted soils that are located in the eastern half of Block 1 and western half of Block 2, and as depicted in the general area shown in **Figure 3**, must be handled in strict accordance with TSCA regulations. PCB-impacted soils handled in accordance with TSCA cannot be re-graded or re-used onsite, and must be disposed offsite in accordance with TSCA regulations. The handling of PCB soils in accordance with TSCA includes very specific and prescriptive sampling, profiling, and delineation requirements prior to removal. If visibly

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contaminated material or restricted material is present at the base of any excavation where a future building will be constructed, an additional 2 feet of soil must be excavated and backfilled with clean soil, such that a 2-foot thick clean soil buffer zone will exist beneath the building foundation. Excavation of visibly or odorous soil beyond what is required for development purposes or to create the 2-foot-thick clean buffer zone beneath buildings is not required as a condition of this Sitewide RMP.

The excavated soil that is identified as a restricted material must be sampled, profiled, transported, and disposed of at an appropriate offsite disposal facility in accordance with the protocol specified in **Section 5.5.4**.

6.4 Soil Vapor Migration Controls

The Site investigation and human health risk assessments for the Northeast Area and Tank Farm Area stated that concentrations primarily of benzene and naphthalene in soil vapor are present at levels that pose potential health risks through the vapor intrusion pathway to future occupants of commercial or residential Buildings within the former MGP area. This correlates to Development Blocks 2, 3, 4, and a portion of Blocks 1 and 9. To address this condition, vapor migration controls are required for buildings that will be constructed in Development Blocks 1, 2, 3, 4, the northern portion of Block 9, and utility corridors within these development blocks, unless approved otherwise by the Water Board.

6.4.1 Pre-Design Vapor Intrusion Evaluation

Following completion of horizontal development activities and prior to building construction in Development Blocks 1, 2, 3, 4, 8, 9, 13, 14, and 15, a pre-design vapor intrusion evaluation shall be developed and implemented for the purpose of informing the VIMS scope and design for new building construction. For Development Blocks 1, 2, 3, and 4, the evaluation will inform the design of the VIMS that is required as a component of the remedy for those blocks. For Development Blocks 8, 9, 13, 14, and 15, the evaluation will inform whether a VIMS is necessary to protect future building occupants from risks posed by the vapor intrusion pathway.

At least 180 days prior to initiating building foundation design, the Owner/developer shall convene a scoping meeting with the Water Board to discuss the scope, approach, and schedule of a vapor intrusion evaluation. At least 90 days prior to initiating building foundation design, the Owner shall submit a Vapor Intrusion Evaluation Work Plan (VIWP) that provides the approach and methodology to conduct the evaluation. The VIWP shall be prepared by a California Professional Geologist or Engineer with specific experience in developing vapor intrusion evaluations. The evaluation should consider multiple lines of evidence to identify the scope and design details of the VIMS for structures to be built in Development Blocks 1, 2, 3, 4, 8, 9, 13, 14, and 15. The evaluation should follow the protocol referenced in the most current versions of vapor intrusion guidance published by the DTSC, Water Board, and USEPA. As of the date of this RMP, current guidance includes, but is not necessarily limited to:

- Supplemental Guidance: Screening and Evaluating Vapor Intrusion (DTSC/Water Board, Public Draft dated February 2020);

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- Advisory – Active Soil Gas Investigations (California Environmental Protection Agency, 2015);
- OSWER Technical Guide for Assessing and Mitigating the Vapor Intrusion Pathway from Subsurface Vapor Sources to Indoor Air (USEPA, 2015a);
- Final Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air (DTSC, 2011a); and
- Vapor Intrusion Mitigation Advisory (DTSC, 2011b).

The evaluation shall include collection of field data to provide a characterization of soil vapor conditions at the development block that are representative of soil vapor conditions following horizontal development activities. Soil vapor sampling shall be conducted following a minimum equilibrium period of six months after completion of earth-moving operations. The VIWP shall include the elements specified in the regulatory guidance and be submitted to the Water Board for review, comment, and approval prior to implementation (**Section 3.4**). Soil vapor sampling will be conducted in accordance with the most current version of the Advisory - Active Soil Gas Investigation (California Environmental Protection Agency, 2015). However, in general, the soil vapor sampling program will include the following key components:

- Installation of a semi-permanent dual-depth soil vapor probe(s) with probe inlets set at approximately 5 and 10 feet bgs or below the base of the future building foundation. If the base of the building will be installed below the saturated groundwater level, a grab groundwater sample shall be collected and analyzed. An appropriate number of vapor probes or grab groundwater samples shall be placed within the building footprint and around the perimeter within 100 feet of the building exterior;
- Sample point leak detection testing consisting of shut-in tests and the use of a helium as a leak check gas;
- Evacuation of the required purge volumes prior to sampling each probe based on the results of a purge volume test;
- Collection of soil vapor samples and analysis for VOCs (including naphthalene) using USEPA Method TO-15; and
- Collection of appropriate quality control samples (e.g., duplicate sample[s]).

6.4.2 VIMS Design, Construction, Operation, and Maintenance

At least 90 days prior to initiating building foundation design, the Owner shall submit a VIMS design report for review and approval by the Water Board. The VIMS design report shall be based on information collected during the pre-design soil vapor intrusion evaluation, may be an active or passive system as conditions dictate, and shall follow the most recent version of the applicable regulatory guidance documents, as discussed in **Section 6.4.1**. The VIMS design shall be prepared and signed by a registered professional engineer with specific expertise in VIMS design. The design report shall include design and specifications for all components of the VIMS, a construction quality assurance plan, permitting requirements, contracting plan, implementation

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schedule, start-up plan (as applicable), and a performance monitoring plan, including successful performance criteria.

Following construction, installation, and startup, an as-built construction completion report shall be submitted to the Water Board for review and approval. The report shall contain as-built drawings of the system components, results of the startup monitoring data, and a VIMS Operation, Maintenance, and Monitoring Plan.

6.4.3 Soil Vapor Migration Controls for Underground Utilities

The construction of trenches or utility corridors through an area of known COCs in soil vapor may create a horizontal conduit for the migration of COCs into occupied buildings, resulting in a vapor intrusion concern. To mitigation this condition, soil vapor migration controls shall be implemented in areas where vapor intrusion poses a potential health risk. As identified in **Table 1**, Development Blocks with vapor intrusion concerns include Blocks 1, 2, 3, 4, 8, and 9. If other Development Blocks are identified in the future as having a vapor intrusion concern, those Blocks shall incorporate soil vapor migration controls as well. Utilities that cross the boundary of a Block with a vapor intrusion concern and a Block with no vapor intrusion concern shall incorporate vapor migration controls at the boundary. Prior to utility trench installation within Development Blocks that have a potential vapor intrusion concern, the Owner shall prepare a soil vapor migration control work plan for review and approval by the Water Board. The work plan shall include the proposed design of engineering controls that will be implemented to mitigate the potential for contaminated soil vapors to migrate along utility corridors. Typical control measures that should be considered may include one or more of the following:

- Selecting piping materials that are compatible with the geochemical conditions of the subsurface to ensure the integrity of the piping when in contact with known COCs.
- Sealing pipe joints of non-pressurized utilities (e.g., sanitary sewer, storm drain, etc.) to prevent COCs in groundwater or soil vapor from entering the buried piping.
- Installing impermeable trench plugs for new utility corridors crossing through areas of known contaminated soil vapor. The plugs will encompass the width and depth of the utility trench, be 2 feet long and be comprised of a cement slurry (two-sack mix) containing 2% bentonite.
- Installing impermeable trench plugs at the base of the foundation where new dry utility corridors enter the building. This would prevent the possible creation of a new conduit if conditions were to change in the future.
- Installing a silicone or other appropriate sealant within subsurface dry utility conduits (e.g., telephone and electrical conduits) entering a building. Sealing would be at the point of entry into the building and is intended to prevent vapor from moving through the conduits to indoor air.

Details regarding the specified controls shall be provided in the work plan, submitted to the Water Board, and approved prior to construction.

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7. RISK MANAGEMENT PROTOCOL FOLLOWING DEVELOPMENT

Following development, establishment of a final durable cover, and occupancy of a specific Development Block, certain requirements of this Sitewide RMP may no longer be required. Following completion of the final durable cover, this Sitewide RMP will continue to apply to all Development Blocks; however, on a block-by-block basis, a Block-specific RMP may be developed to reflect the unique conditions and requirements that apply to that Development Block. Any revisions to this Sitewide RMP or development of a new block-specific RMP must follow the Sitewide RMP modification requirements in Section 7.5 and must be approved by the Water Board. Once approved by the Water Board, the new Block-specific RMP will supersede this Sitewide RMP for that Block.

This section describes the Sitewide RMP requirements that may apply to redeveloped and occupied Blocks following approval of the final durable cover and receipt of its certificate of occupancy.

7.1 Cover Maintenance and Disturbance

If any maintenance or repair work disturbs the final durable cover, the applicable Sitewide RMP protocol stated in **Section 5** shall be followed. Following completion of the maintenance work, the final durable cover shall be re-established in accordance with the protocols described in the Durable Cover O&M Plan (**Appendix E**).

7.2 Health and Safety Protocol

Based on information provided by the Owner, Contractors that will perform any activity that will disturb the final durable cover and access the existing soil or impacted groundwater must develop a Health and Safety Plan to protect their workers during these activities. The Health and Safety Plan shall follow the general guidance outlined in **Section 5.3** and be tailored to the specific activities being conducted. Nothing in this section is intended to relieve any person, including contractors or employers, of other mandated worker health and safety planning and training requirements under any federal, state, or local statute or regulations, including Cal/OSHA Standard 1910.120.

7.3 Soil Management associated with Property Maintenance

Soil management for routine maintenance activities following redevelopment shall follow the protocols outlined in **Section 5.5** of this Sitewide RMP.

7.4 Vapor Intrusion Mitigation Systems

Vapor mitigation systems that are operating in a building shall be managed in accordance with the specific VIMS Operation and Maintenance Plan. In the event that any component of the system needs to be modified, the Owner must notify the Water Board prior to conducting any modifications.

7.5 RMP Modifications for Individual Development Blocks

Once a development block has been constructed and occupied and the final durable cover is in place, the Owner may propose to the Water Board to develop a Block-specific RMP to reflect the

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conditions that are unique to that Development Block. The Block-specific RMP shall address protocol for maintaining the final cover, managing exposures to existing soil in the event that the final cover must be breached for minor construction and repairs, replacing the final cover as soon as practical, and maintaining effectiveness of the VIMS. At a minimum, the Block-specific RMP shall include protocol for the following:

- Environmental health and safety plan for construction workers;
- Access controls for areas where the final durable cover has been removed;
- Dust control;
- Stormwater control;
- Soil management protocol;
- O&M Plan for the final durable cover configuration; and
- O&M Plan for VIMS, where applicable.

The Block-specific RMP shall follow the process outlined in **Section 2.1.1** for review and approval by the Water Board. Once a Block-specific RMP is approved by the Water Board, the Block-specific RMP will apply and will supersede this Sitewide RMP for that Development Block only. This Sitewide RMP will continue to apply to any undeveloped blocks that don't have a Block-specific RMP approved by the Water Board, and the protocol listed in **Sections 5 and 6** will apply as appropriate.

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Table 1

List of Approved Land Uses and Risk Management Conditions

Development Block/Approved Use/Geotracker Link	Operational Area	Commercial/Industrial Remedy	Residential Risks	Residential Remedy Required
1 Multi-family Residential (Geotracker Link)	Switchyard/GC Yard (Eastern half) *Geotracker ID T10000004527*; Tank Farm Area (Western half) *Geotracker ID T10000004529*	Switchyard/GC Yard: • Land Use restrictions • Durable Cover • Groundwater use restrictions • Compliance with PG&E LUC and future CBC LUC, RMP, and O&M Plan Tank Farm Area (Western most portion of Tank Farm and eastern half of Block 1): • Land Use restrictions • Durable Cover • Groundwater use restrictions • Excavation restrictions pertaining to contaminated soil in Tank Farm Area • Soil vapor restrictions and vapor intrusion mitigation measures required for commercial use in Tank Farm Area • Compliance with PG&E LUC and future CBC LUC, RMP, and O&M Plan	Switchyard/GC Yard: Soil vapor data are required to assess the potential for vapor intrusion; however, the results are likely to be similar to the findings for Station A. Tank Farm: Based on the adjusted AF of 0.0075 and an AF of 0.001 for petroleum-based COPCs (Scenario 3), the estimated cancer and non-cancer risks are $3x10^{-4}$ and 9.6, respectively which exceed the acceptable risk management range and will require remediation or risk management measures to address vapor intrusion mitigation to provide an acceptable level of protectiveness.	Same as Commercial/industrial remedy provided the residential building incorporates a sub-terranean garage ventilated to Code, removal of contaminated vadose zone soil that is encountered during excavation of the sub-terranean garage, and an O&M program with periodic verification vapor monitoring.
2 Commercial (Laboratory) (Geotracker Link)	Tank Farm Area (Former MGP Area) *Geotracker ID T10000004529*	• Land Use restrictions • Durable Cover • Groundwater use restrictions • Excavation restrictions pertaining to contaminated soil • Soil vapor restrictions and vapor intrusion mitigation measures required for commercial use. • Compliance with PG&E LUC and future CBC LUC, RMP, and O&M Plan	Residential Use is not included in the approved development plan. If residential risk is planned in the future, estimated cancer and non-cancer risks are $3x10^{-4}$ and 9.6, respectively (Scenario 3) which exceed the acceptable risk management range and will require remediation or risk management measures to address vapor intrusion mitigation to provide an acceptable level of protectiveness.	Same as Commercial/industrial remedy provided the residential building incorporates a sub-terranean garage ventilated to Code, removal of contaminated vadose zone soil that is encountered during excavation of the sub-terranean garage, and an O&M program with periodic verification vapor monitoring.
3 Commercial (Laboratory) (Geotracker Link)	Tank Farm Area (Former MGP Area) *Geotracker ID T10000004529*	• Land Use restrictions • Durable Cover • Groundwater use restrictions • Excavation restrictions pertaining to contaminated soil • Soil vapor restrictions and vapor intrusion mitigation measures required for commercial use.	Residential Use is not included in the approved development plan. If residential risk is planned in the future, estimated cancer and non-cancer risks are $3x10^{-4}$ and 9.6, respectively (Scenario 3) which exceed the acceptable risk management range and will require remediation or risk management measures to address vapor intrusion mitigation to provide an acceptable level of protectiveness.	Same as Commercial/industrial remedy provided the residential building incorporates a sub-terranean garage ventilated to Code, removal of contaminated vadose zone soil that is encountered during excavation of the sub-terranean garage, and an O&M

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Development Block/Approved Use/Geotracker Link	Operational Area	Commercial/Industrial Remedy	Residential Risks	Residential Remedy Required
		• Compliance with PG&E LUC and future CBC LUC, RMP, and O&M Plan		program with periodic verification vapor monitoring.
4 Multi-family Residential (Geotracker Link)	Northeast Area (former MGP Area) *Geotracker ID T10000004520*	• Land Use restrictions • Durable Cover • Groundwater use restrictions • Excavation restrictions for portion in MGP Area • Soil Vapor restrictions and vapor intrusion mitigation measures required for commercial use for portion in MGP Area • Compliance with PG&E LUC and future CBC LUC, RMP, Offshore RMMP, and O&M Plan	Based on the adjusted AF of 0.0075 and an AF of 0.001 for petroleum-based COPCs (Scenario 3), the estimated cancer risk is 6×10^{-4} and a non-cancer hazard index of 16 which exceed the acceptable risk management range and will require remediation or risk management measures to address vapor intrusion mitigation to provide an acceptable level of protectiveness.	Same as Commercial/industrial remedy provided the residential building incorporates a sub-terranean garage ventilated to Code, removal of contaminated vadose zone soil that is encountered during excavation of the sub-terranean garage, and an O&M program with periodic verification vapor monitoring.
5 Multi-family Residential (Geotracker Link)	Station A *Geotracker ID T10000004524*	• Land Use restrictions • Durable Cover • Groundwater use restrictions • Compliance with PG&E LUC and future CBC LUC, RMP, and O&M Plan	Based on the adjusted AF of 0.0075 and an AF of 0.001 for petroleum-based COPCs (Scenario 3), the estimated cancer and non-cancer risks are 1×10^{-6} and 0.07, respectively, which are at or below the *de minimis* risk level.	Same as Commercial/industrial remedy provided the residential building incorporates a sub-terranean garage ventilated to Code and removal of contaminated vadose zone soil that is encountered during excavation of the sub-terranean garage.
7 Multi-family Residential (Geotracker Link)	Station A *Geotracker ID T10000004524*	• Land Use restrictions • Durable Cover • Groundwater use restrictions • Compliance with PG&E LUC and future CBC LUC, RMP, and O&M Plan	The estimated cancer and non-cancer risks are 1×10^{-6} and 0.07, respectively (Scenario 3), which are at or below the *de minimis* risk level.	Same as Commercial/industrial remedy provided the residential building incorporates a sub-terranean garage ventilated to Code and removal of contaminated vadose zone soil that is encountered during excavation of the sub-terranean garage.
8 Multi-family Residential (Geotracker Link)	Station A *Geotracker ID T10000004524*	• Land Use restrictions • Durable Cover • Groundwater use restrictions • Compliance with PG&E LUC and future CBC LUC, RMP, and O&M Plan	The estimated cancer and non-cancer risks are 1×10^{-6} and 0.07, respectively (Scenario 3), which are at or below the *de minimis* risk level. However, given the proximity of residual source areas within the Tank Farm and Northeast Areas to the northern boundary and northeast corner of Development Block 8, the collection and analysis of contemporaneous samples in Block 8 would help support this risk assessment conclusion.	Same as Commercial/industrial remedy provided the residential building incorporates a sub-terranean garage ventilated to Code and removal of contaminated vadose zone soil that is encountered during excavation of the sub-terranean garage.
9 Hotel/ Multi-family Residential (Geotracker Link)	Northeast Area (southern half) *Geotracker ID T10000004520*; Power Unit 3 Area (northern half) *Geotracker ID T10000004528*	Northeast Area: • Land Use restrictions • Durable Cover • Groundwater use restrictions • Excavation restrictions for portion in MGP Area • Soil Vapor restrictions and vapor intrusion mitigation measures required for commercial use for portion in MGP Area • Compliance with PG&E LUC and future CBC LUC, RMP, Offshore RMMP, and O&M Plan	Northeast Area: the estimated cumulative cancer risk for a building with at-grade residential units (no sub-terranean garage) is estimated to be 6×10^{-4} and a non-cancer hazard index greater than 1 (Scenario 3). Unit 3 Area: for a future slab on grade structure, the estimated cumulative cancer risks are 2×10^{-5}, which is within the acceptable risk range, and non-cancer hazard index is less than 1 (Scenario 3).	Same as commercial/industrial remedy (Vapor intrusion mitigation beneath the entire block) with vapor intrusion verification sampling plan to be developed prior to occupancy.

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Development Block/Approved Use/Geotracker Link	Operational Area	Commercial/Industrial Remedy	Residential Risks	Residential Remedy Required
		Power Unit 3 Area: • Land Use restrictions • Durable Cover • Groundwater use restrictions • Compliance with PG&E LUC and future CBC LUC, RMP, and O&M Plan	Some form of risk management and/or remediation is needed to address residual volatile chemicals reported on and adjacent to the Northeast Area north of the Unit 3 boundary.	
11 Commercial (Office or Laboratory) (Geotracker Link)	Station A *Geotracker ID T10000004524*	• Land Use restrictions • Durable Cover • Groundwater use restrictions • Compliance with PG&E LUC and future CBC LUC, RMP, and O&M Plan	Residential Use is not included in the approved development plan. If residential risk is planned in the future, the estimated cancer and non-cancer risks are $1x10^{-6}$ and 0.07, respectively (Scenario 3), which are at or below the *de minimis* risk level.	Same as Commercial/industrial remedy provided the residential building incorporates a sub-terranean garage ventilated to Code and removal of contaminated vadose zone soil that is encountered during excavation of the sub-terranean garage.
12 Commercial (Office or Laboratory) (Geotracker Link)	Station A *Geotracker ID T10000004524*	• Land Use restrictions • Durable Cover • Groundwater use restrictions • Compliance with PG&E LUC and future CBC LUC, RMP, and O&M Plan	Residential Use is not included in the approved development plan. If residential risk is planned in the future, the estimated cancer and non-cancer risks are $1x10^{-6}$ and 0.07, respectively (Scenario 3), which are at or below the *de minimis* risk level.	Same as Commercial/industrial remedy provided the residential building incorporates a sub-terranean garage ventilated to Code and removal of contaminated vadose zone soil that is encountered during excavation of the sub-terranean garage.
13 Multi-family Residential (Geotracker Link)	Switchyard/GC Yard *Geotracker ID T10000004527*	• Land Use restrictions • Durable Cover • Groundwater use restrictions • Compliance with PG&E LUC, RMP, and O&M Plan	Soil vapor data are required to assess the potential for vapor intrusion. Soil vapor data should be collected and evaluated following completion of horizontal development and prior to initiating vertical development.	To be developed following soil vapor sampling and risk evaluation.
14 Multi-family Residential (Geotracker Link)	GC Yard *Geotracker ID T10000004527*	• Land Use restrictions • Durable Cover • Groundwater use restrictions • Compliance with PG&E LUC, RMP, and O&M Plan	Soil vapor data are required to assess the potential for vapor intrusion. Soil vapor data should be collected and evaluated following completion of horizontal development and prior to initiating vertical development.	To be developed following soil vapor sampling and risk evaluation.
15 Commercial (Office or Laboratory) (Geotracker Link)	Station A *Geotracker ID T10000004524*	• Land Use restrictions • Durable Cover • Groundwater use restrictions • Compliance with future CBC LUC, RMP, and O&M Plan	Residential Use is not proposed and based on the nature of the building construction residential use is not likely in the future.	To be developed following risk evaluation if the building is ever planned for future residential use.
Waterfront Open Spaces (Port) (Geotracker Link) Waterfront Open Spaces (CBC) (Geotracker Link)	Northeast Area/Power Unit 3/Offshore Area *Geotracker ID T10000004520* *Geotracker ID T10000004528*	• Durable Cover • Groundwater use restrictions • Compliance with future CBC LUC, RMP, RMMP, and O&M Plan	Residential not planned	Not Applicable

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Development Block/Approved Use/Geotracker Link	Operational Area	Commercial/Industrial Remedy	Residential Risks	Residential Remedy Required
Power Station Park/Louisiana Paseo (Geotracker Link)	Station A *Geotracker ID T10000004524*	• Durable Cover • Groundwater use restrictions • Compliance with future CBC LUC, RMP, and O&M Plan	Residential not planned	Not Applicable
Illinois Plaza (Geotracker Link)	Switchyard North/GC Yard *Geotracker ID T10000004527*	• Durable Cover • Groundwater use restrictions • Compliance with future CBC LUC, RMP, and O&M Plan	Residential not planned	Not Applicable
Public Streets (Geotracker Link)	All operational Areas	• Durable Cover • Clean utility corridors • Groundwater use restrictions • Compliance with future CBC LUC, RMP, and O&M Plan	Residential not planned	Not Applicable
Private Streets (Geotracker Link)	All Operational Areas	• Durable Cover • Clean utility corridors • Groundwater use restrictions • Compliance with future CBC LUC, RMP, and O&M Plan	Residential not planned	Not Applicable

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Table 2

Schedule of Notification and Reporting Requirements

Category	Description	Notification Due Date	Water Board Response Date
Change in Ownership	Water Board must be notified in writing anytime there is a change in ownership.	Within 15 days of the transaction closing date. Notification shall be uploaded to the Geotracker website.	Water Board to issue a cost recovery agreement within 30 days of receipt of the change in ownership notice.
Small Projects	Projects that involve ground disturbing activity that penetrate the durable cover but that are less than 50 cubic yards in total volume of soil or an area of 1250 sf or less of durable cover disturbed	No less than 3 days prior to initiating the work.	Within 3 days of receipt of notification.
Major Projects	The Owner must notify the Water Board in writing prior to performing any activity that triggers compliance with this RMP, as defined in **Section 2**. except in the case of emergency repairs as provided in **Section 3.2**.	At least 60 days prior to performing any activity that triggers compliance with this RMP	Within 60 days of receipt of notification.
Emergency Repairs	Emergency repairs to subsurface features (e.g., utilities).	Within 48 hours of initiation of the activity	No response time specified.
RMP Condition Variance Request	A one-time project-specific variance from the RMP	At least 60 days prior to performing the activity.	The Water Board will attempt to respond to a variance request within 30 days of receipt of notification.
RMP Modification Request	It may be necessary or appropriate to modify this RMP	As needed.	The Water Board staff will review proposals for RMP modification, request any

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Category	Description	Notification Due Date	Water Board Response Date
	from time to time for any of several reasons.		additional background information needed, and issue a decision regarding each such proposal within approximately 60 calendar days of receiving both the proposal and any additional information requested with respect to it.
Vapor Intrusion Investigation Work Plan	Prior to vertical construction of any building on development blocks 1, 2, 3, 4, 8, 9, 13, 14 and 15, the Owner/developer shall schedule and attend a vapor intrusion evaluation scoping meeting with a representative of the Water Board	At least 180 days prior to construction	No response time specified.
Vapor Intrusion Mitigation System Design Report	The Owner shall submit a VIMS design report for review and approval by the Water Board	At least 60 days prior to initiating building foundation design.	No response time specified.
Completion Reports	Following completion of the construction work requiring compliance with this RMP, the Owner shall prepare a Completion Report for submittal to the Water Board.	within 90 days of completing the RMP-compliant activities.	Within approximately 60 calendar days of receiving a completion report, the Water Board will notify the Owner of any discrepancies or deficiencies in the completion report.
Annual Inspection and Report	The Owner must conduct annual inspections in the fourth quarter of each year, complete an Annual Report and O&M Checklist (**Appendix E**), and submit the Annual Report and	Inspections to be conducted in the fourth quarter of each year. Annual Report and O&M Checklist to be submitted by March 31 of the following year.	No response time specified.

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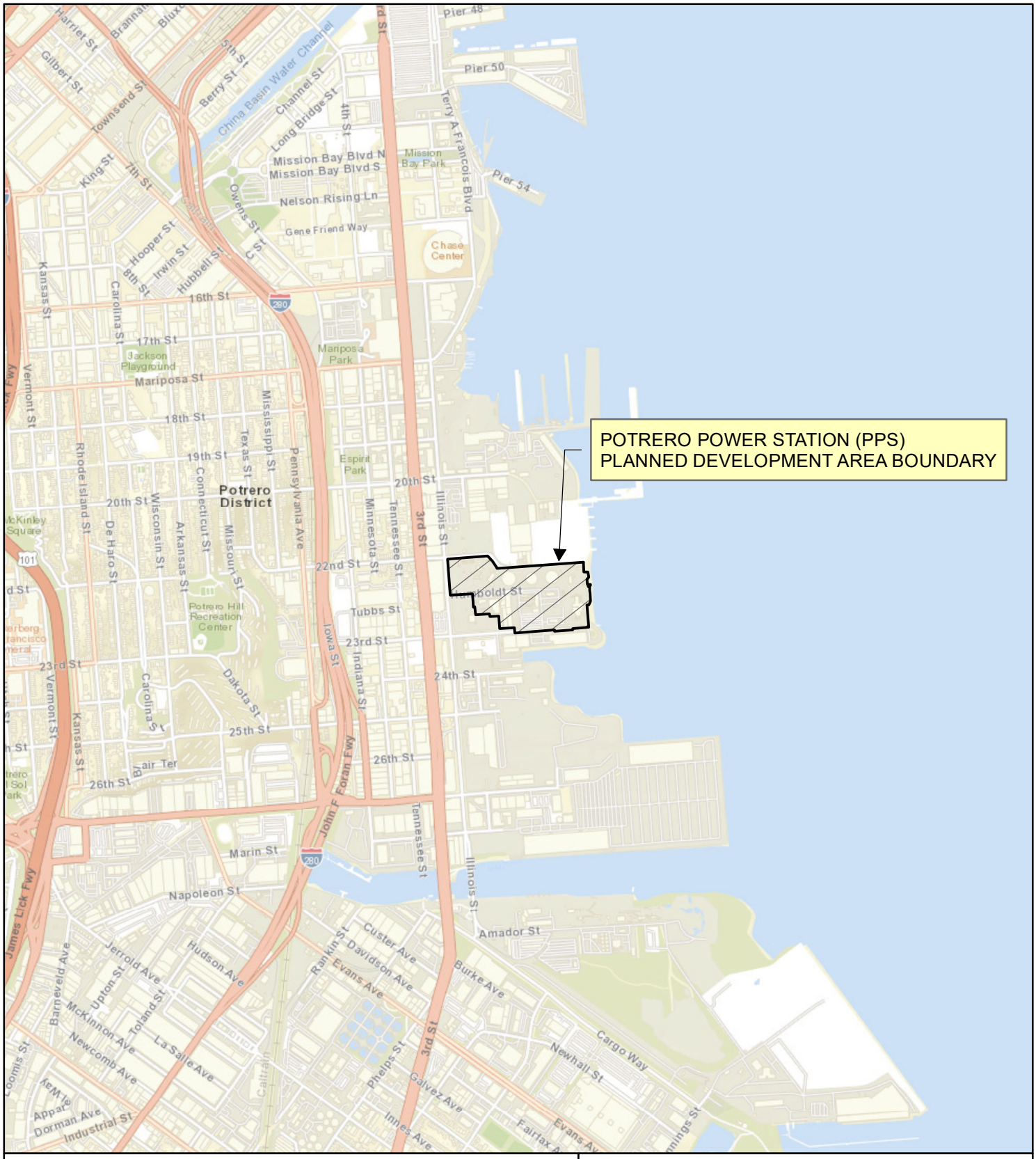
Category	Description	Notification Due Date	Water Board Response Date
	O&M Checklist to the Water Board		
Non-Compliant Condition	The Owner shall provide the written explanation to the Water Board of a condition that is not compliant with the Sitewide RMP.	Within 15 working days of discovery of the condition.	No response time specified.
Progress Reports	The Water Board, for larger infrastructure or development projects, may require that the Owner provide regular progress/status reports on construction activities and/or compliance with the requirements of the Sitewide RMP.	As requested by Water Board.	No response time specified.

FIGURES



N

0 2,000 Feet

Site Location Map

Risk Management Plan
Potrero Power Station
San Francisco, California

Geosyntec consultants

WR2273	August 2020	Figure 1

D:\GIS\California Barrel Company LLC\Project\2019_12\Fig01_SiteLocationMap.mxd 3/11/2020 7:13:59 PM

22ND STREET

PIER 70

SWITCHYARD/GC YARD AREA

BLOCK 13

GEORGIA STREET

BLOCK 14

CRAIG LANE

LOUISIANA STREET

TANK FARM

BLOCK 1

BLOCK 2

BLOCK 3

BLOCK 4

HUMBOLDT STREET

OFFSHORE AREA (OSA)

(REMEDIATION COMPLETE)

NORTHEAST AREA (NEA)

BLOCK 5

GEORGIA LANE

BLOCK 15

BLOCK 7

STATION A AREA

MARYLAND STREET

BLOCK 8

DELAWARE STREET

BLOCK 9

SAN FRANCISCO BAY

ILLINOIS STREET

BLOCK 11

BLOCK 12

UNIT 3 AREA

23RD STREET

TRANS BAY CABLE / HARRIGAN WEIDENMULLER COMBINED SITE

Source: CBG, 2020

LEGEND

- PROJECT BOUNDARY
- ADJACENT PROPERTY BOUNDARY
- PARCEL BOUNDARIES
- PORT / CITY OWNED PROPERTY
- CBC OWNED PROPERTY & PROPOSED CBC LUC
- SITEWIDE RMP
- OFFSHORE AREA RMP
- EXISTING REMEDIATION AREAS
- PG&E AND CBC OWNED PROPERTY

0 150

PG&E and CBC Owned Portions of the Potrero Power Station

Potrero Power Station
420 23rd Street,
San Francisco, California

Geosyntec consultants

WR2273 | August 2020

Figure 2

P:\GIS\California Barrel Company LLC\Project\2020_PPP_RMP\Fig-02_PGEandCBCpropertiesV3.ai

Legend

- PCB Area
- Planned Development Area Boundary
- Former Operational Subareas
- PG&E ISS Remediation Area

N

0 200 Feet

Site Plan and Site Features
Risk Management Plan
Potrero Power Station
San Francisco, California

Geosyntec consultants

WR2273 | September 2020

Figure 3

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Legend

- Residential
- Office or Laboratory
- Laboratory
- Hotel
- Hotel and/or Residential
- * Potential District Parking Garage and Publicly Accessible Rooftop Soccer Field Location
- Open Space
- Proposed Development Boundary

N

0 220 Feet

Proposed Development and Land Uses

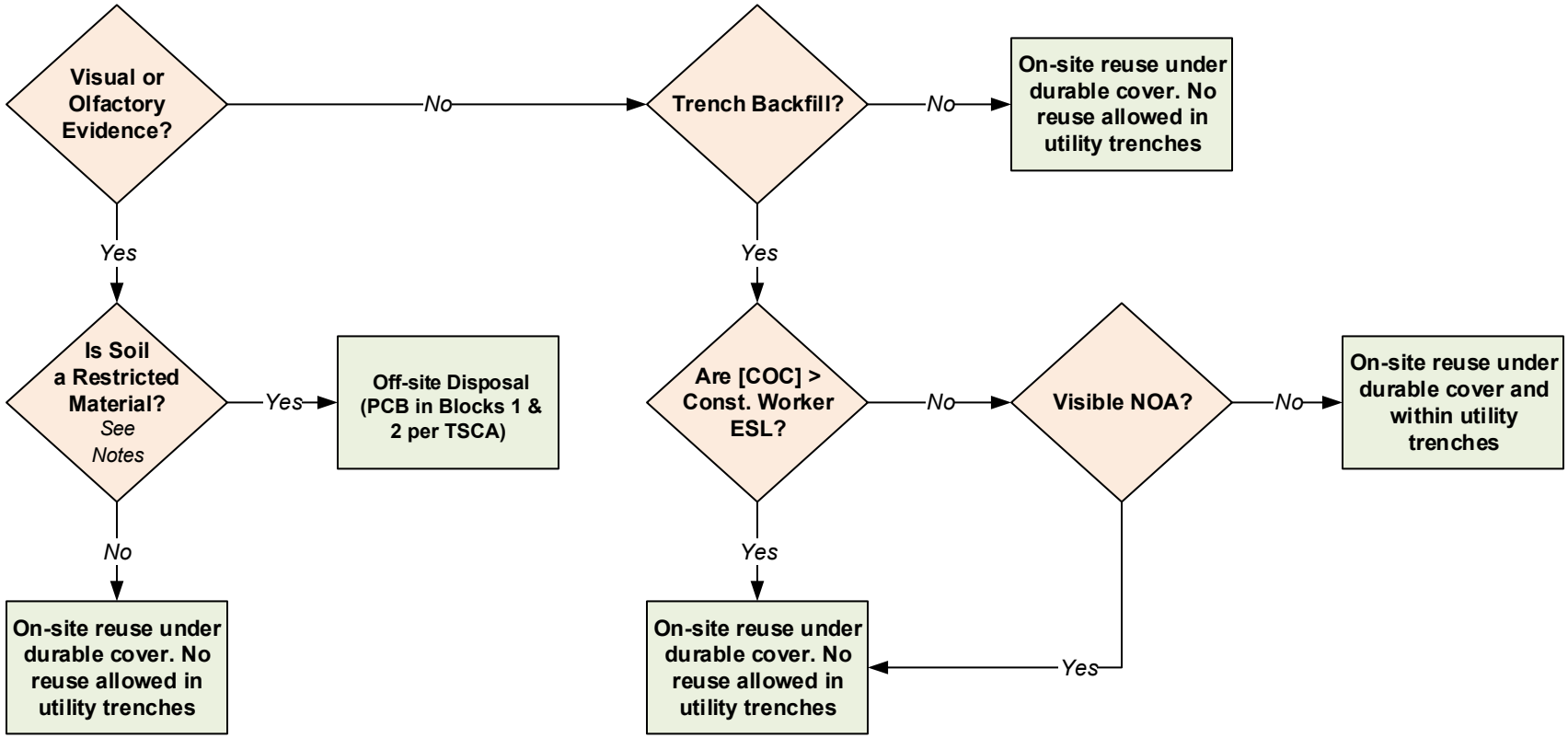
Risk Management Plan
Potrero Power Station
San Francisco, California

Geosyntec consultants

WR2273 | August 2020

Figure 4

P:\GIS\California Barrel Company LLC\Project\2020_PPP_RMP\Fig-05_ProposedDevelopmentLandUses.ai



NOTES:

Restricted material includes known waste material that poses unacceptable level of risk to human health and can be described as:

- MGP Waste (e.g. Coal Tar, Lampblack, or Prussian Blue)
- Tank bottom sludge
- Oil-saturated soil (Continous DNAPL)
- Sand blast grit
- Contaminated construction debris rubble such as refractory brick, transite pipe, lead-based paint coated materials.
- ISS Material in the Northeast Area
- PCB impacted soil > 1 ppm in Development Block 1 and Block 2

Abbreviations:

[COC] = Constituent Of Concern Concentrations
ESL = Environmental Screening Levels (Water Board, 2019)
NOA = Naturally Occurring Asbestos
ISS = in-situ solidification
">" = greater than
TSCA= Toxic Substances Control Act
ppm = parts per million

On-Site Soil Reuse Decision Matrix

Risk Management Plan
Potrero Power Station
San Francisco, California

Geosyntec consultants

Figure 5

WR2273 | August 2020

P:\GIS\California Barrel Company LLC\Project\2020_PPP_RMP\Fig-05_DESCISION_FLOW_CHART.ai

APPENDIX A
Land Use Covenants

COVENANT AND ENVIRONMENTAL RESTRICTION ON PROPERTY

CBC-OWNED LAND

(Pending final review of Water Board)

COVENANT AND ENVIRONMENTAL RESTRICTION ON PROPERTY

PG&E-OWNED SWITCHYARD AND GENERAL CONSTRUCTION YARD

RECORDING REQUESTED BY:

PACIFIC GAS AND ELECTRIC COMPANY

When Recorded, Mail To:
California Regional Water Quality Control Board
Attn: Executive Officer
San Francisco Bay Region
1515 Clay Street, Suite 1400
Oakland, California 94612

Location: City/Uninc _____
Recording Fee $ _____
Document Transfer Tax $ _____
☐This is a conveyance where the consideration and Value is less than $100.00 (R&T 11911)
☐Computed on Full Value of Property Conveyed, or
☐Computed on Full Value Less Liens & Encumbrances Remaining at Time of Sale

_____
Signature of declarant or agent declaring tax

CONFORMED COPY of document recorded

on _____ with docum 01/05/2012 20121329253
This document has not been com with the original
SAN FRANCISCO ASSESSOR-RECORDER

(SPACE ABOVE FOR RECORDER'S USE ONLY)

LD XXSF-00-4198

COVENANT AND ENVIRONMENTAL RESTRICTION ON PROPERTY

Potrero Switchyard and General Construction Yard
1201 Illinois Street, San Francisco, California
APN: 4175-007, Parcels 1 and 2

THIS PAGE ADDED TO PROVIDE ADEQUATE SPACE FOR RECORDING INFORMATION
(Additional recording fee applies)

Recording Requested By:

Pacific Gas and Electric Company

When Recorded, Mail To:
California Regional Water Quality Control Board
Attn: Executive Officer
San Francisco Bay Region
1515 Clay Street, Suite 1400
Oakland, California 94612

COVENANT AND ENVIRONMENTAL RESTRICTION ON PROPERTY

Potrero Switchyard and General Construction Yard
1201 Illinois Street, San Francisco, California
APN 4175-007, Parcels 1 and 2

This Covenant and Environmental Restriction on Property (this "Covenant") is made as of the 15th day of September 2011 by Pacific Gas and Electric Company ("Covenantor") who is the Owner of record of that certain property situated at the address commonly known as 1201 Illinois Street, in the City of San Francisco, County of San Francisco, State of California, which is more particularly described in Exhibit A attached hereto incorporated herein by this reference (such property hereinafter referred to as the "Burdened Property"), for the benefit of the California Regional Water Quality Control Board for the San Francisco Bay Region (the "Water Board"), with reference to the following facts:

A. Hazardous Materials are Present. The Burdened Property and groundwater underlying the Burdened Property contains hazardous materials as defined in California Health & Safety Code Section 25260.

B. Contaminants at the Burdened Property. The Burdened Property was historically used for barrel manufacturing, roofing products and manufactured gas storage. Soil and/or groundwater at the Burdened Property were contaminated by these historic industrial and commercial operations.

Constituents detected in soil and/or groundwater at the Burdened Property include various petroleum compounds, heavy metals, polynuclear aromatic hydrocarbons, and pesticides. In addition, up to 3% naturally occurring asbestos has been found in soil on the Burdened Property. Summaries of analytical data collected are presented in the Site Management Plan (SMP), which is incorporated herein by this reference. A SMP Summary is attached to this Covenant as Exhibit B for information purposes; the current SMP is located at the Burdened Property.

C. Exposure to Contaminants. The contaminants addressed in this Covenant are present in

soil and groundwater on the Burdened Property. Although the property is currently covered with structures, gravel, asphalt or pavement; exposure to these contaminants could take place if this Cap is removed or if intrusive activities occur. To minimize such exposures, the SMP was developed to manage the pollutants present and guide intrusive activities.

Without the mitigation measures which have been performed on the Burdened Property, exposure to these contaminants could take place via dermal contact, inhalation and incidental ingestion. The risk of public exposure to the contaminants has been substantially lessened by the existing site cover (Cap) and the controls described herein which include the SMP and restricted use.

D. Management of Residual Pollution. In order to assure the continued protection of human health and the environment a SMP has been prepared. The SMP sets forth health and safety procedures and pollutant management protocols to be followed during construction or maintenance activities on the Burdened Property. The SMP also sets forth procedures for long-term management of residual pollutants on the Burdened Property. A copy of this document must be maintained by the Property Owner(s) and shall be consulted prior to and complied with at all times. It is the responsibility of the then-existing Property Owner(s) to insure compliance with this Covenant and associated SMP.

E. Use. The Burdened Property is used as an electrical Switchyard/ Substation by Covenantor and also used by Covenantor's construction crews. It is adjacent to industrial and commercial land uses.

F. Disclosure. Full and voluntary disclosure to the Water Board of the presence of hazardous materials on the Burdened Property has been made and extensive sampling of the Burdened Property has been conducted.

G. Future Use Restricted. Covenantor desires and intends that in order to benefit the Water Board, and to protect the present and future public health and safety, the Burdened Property shall be used in such a manner as to avoid potential harm to persons or property that may result from hazardous materials that may have been deposited on portions of the Burdened Property.

ARTICLE I
GENERAL PROVISIONS

1.1 Provisions to Run with the Land. This Covenant sets forth protective provisions, covenants, conditions and restrictions (collectively referred to as "Restrictions") upon and subject to which the Burdened Property and every portion thereof shall be improved, held, used, occupied, leased, sold, hypothecated, encumbered, and/or conveyed. The restrictions set forth in Article III are reasonably necessary to protect present and future human health and safety or the environment as a result of the presence on the land of hazardous materials. Each and all of the Restrictions shall run with the land, and pass with each and every portion of the Burdened Property, and shall apply to, inure to the benefit of, and bind the respective successors in interest thereof, for the benefit of the Water Board and all Owners and Occupants. Each and all of the

Restrictions are imposed upon the entire Burdened Property unless expressly stated as applicable to a specific portion of the Burdened Property. Each and all of the Restrictions run with the land pursuant to section 1471 of the Civil Code. Each and all of the Restrictions are enforceable by the Water Board.

1.2 Concurrence of Owners and Lessees Presumed. All purchasers, lessees, or possessors of any portion of the Burdened Property shall be deemed by their purchase, leasing, or possession of such Burdened Property, to be in accord with the foregoing and to agree for and among themselves, their heirs, successors, and assignees, and the agents, employees, and lessees of such owners, heirs, successors, and assignees, that the Restrictions as herein established must be adhered to for the benefit of the Water Board and the Owners and Occupants of the Burdened Property and that the interest of the Owners and Occupants of the Burdened Property shall be subject to the Restrictions contained herein.

1.3 Incorporation into Deeds and Leases. Covenantor desires and covenants that the Restrictions set out herein shall be incorporated in and attached to each and all deeds and leases of any portion of the Burdened Property. Recordation of this Covenant shall be deemed binding on all successors, assigns, and lessees, regardless of whether a copy of this Covenant has been attached to or incorporated into any given deed or lease.

1.4 Purpose. It is the purpose of this instrument to convey to the Water Board real property rights, which will run with the land, to facilitate the remediation of past environmental contamination and to protect human health and the environment by reducing the risk of exposure to residual hazardous materials.

ARTICLE II
DEFINITIONS

2.1 Water Board. "Water Board" shall mean the California Regional Water Quality Control Board for the San Francisco Bay Region and shall include its successor agencies, if any.

2.2 Cap. The "Cap" shall mean any gravel, asphalt, concrete or other surface capable of preventing exposure to underlying soil.

2.3 Improvements. "Improvements" shall mean all buildings, roads, driveways, regradings, and paved/capped parking areas, constructed or placed upon any portion of the Burdened Property.

2.4 Occupants. "Occupants" shall mean Owners and those persons entitled by ownership, leasehold, or other legal relationship to the exclusive right to use and/or occupy all or any portion of the Burdened Property.

2.5 Owner or Owners. "Owner" or "Owners" shall mean the Covenantor and/or its successors in interest, who hold title to all or any portion of the Burdened Property.

2.6 Site Management Plan. The "Site Management Plan" shall mean the February 2011, Site Management Plan, prepared by AMEC Geomatrix, Inc., including any amendments or revisions thereto, which has been approved in writing by the Water Board.

2.7 SMP. "SMP" shall mean Site Management Plan, as described in 2.6 above.

ARTICLE III
DEVELOPMENT, USE AND CONVEYANCE OF THE BURDENED PROPERTY

3.1 Restrictions on Development and Use. Covenantor promises to restrict the use of the Burdened Property as follows:

a. Development of the Burdened Property shall be restricted to industrial, or commercial use;

b. No residence for human habitation shall be permitted on the Burdened Property;

c. No hospitals or health care facilities shall be permitted on the Burdened Property;

d. No schools for persons under 21 years of age shall be permitted on the Burdened Property;

e. No day care centers for children or day care centers for Senior Citizens shall be permitted on the Burdened Property;

f. Owners or Occupants of the Burdened Property or any portion thereof shall notify the Water Board of any excavation work greater than 50 cubic yards of soil on the Burdened Property. Any contaminated soils brought to the surface by any grading, excavation, trenching, or backfilling shall be managed by Covenantor or his agent in accordance with all applicable provisions of local, state and federal law; and the approved site-specific SMP.

g. All uses, maintenance and development of the Burdened Property shall maintain compliance with the SMP, preserve the integrity of the Cap and any remedial measures taken or remedial equipment installed, and any groundwater monitoring system installed on the Burdened Property pursuant to the requirements of the Water Board, unless otherwise expressly permitted in writing by the Water Board.

h. No Owners or Occupants of the Burdened Property or any portion thereof shall drill, bore, otherwise construct, or use a well for the purpose of extracting water for any use, including, but not limited to, domestic, potable, or industrial uses, unless expressly permitted in writing by the Water Board.

i. The Owner shall notify the Water Board of each of the following when not performed in compliance with the SMP or any Water Board approved workplans: (1) The type, cause, location and date of any disturbance to any Cap, any remedial measures taken or remedial

equipment installed, and of the groundwater monitoring system installed on the Burdened Property pursuant to the requirements of the Water Board, which could affect the ability of such Cap or remedial measures, remedial equipment, or monitoring system to perform their respective functions and (2) the type and date of repair of such disturbance. Notification to the Water Board shall be made by registered mail within ten (10) working days of both the discovery of such disturbance and the completion of repairs;

j. The Covenantor agrees that the Water Board, and/or any persons acting pursuant to Water Board orders, shall have reasonable access to the Burdened Property for the purposes of inspection, surveillance, maintenance, or monitoring, as provided for in Division 7 of the Water Code.

k. No Owner or Occupant of the Burdened Property shall act in any manner that will aggravate or contribute to the existing environmental conditions of the Burdened Property. All use and development of the Burdened Property shall preserve the integrity of any Capped areas.

3.2 Enforcement. Failure of an Owner or Occupant to comply with any of the restrictions, as set forth in paragraph 3.1, shall be grounds for the Water Board, by reason of this Covenant, to have the authority to require that the Owner modify or remove any Improvements constructed in violation of that paragraph. Violation of the Covenant shall be grounds for the Water Board to file civil actions against the Owner as provided by law.

3.3 Notice in Agreements. After the date of recordation hereof, all Owners and Occupants shall execute a written instrument which shall accompany all purchase agreements or leases relating to the Burdened Property . Any such instrument shall contain the following statement:

> The land described herein contains hazardous materials in soils and in the ground water under the property, and is subject to a deed restriction dated as of _____, 2011, and recorded on _____, 2011, in the Official Records of _____ County, California, as Document No. _____, which Covenant and Restriction imposes certain covenants, conditions, and restrictions on usage of the property described herein. This statement is not a declaration that a hazard exists.

ARTICLE IV
VARIANCE AND TERMINATION

4.1 Variance. Any Owner or, with the Owner's consent, any Occupant of the Burdened Property or any portion thereof may apply to the Water Board for a written variance from the provisions of this Covenant.

4.2 Termination. Any Owner or, with the Owner's consent, any Occupant of the Burdened Property or a portion thereof may apply to the Water Board for a termination of the Restrictions as they apply to all or any portion of the Burdened Property.

4.3 Term. Unless terminated in accordance with paragraph 4.2 above, by law or otherwise, this Covenant shall continue in effect in perpetuity.

ARTICLE V
MISCELLANEOUS

5.1 No Dedication Intended. Nothing set forth herein shall be construed to be a gift or dedication, or offer of a gift or dedication, of the Burdened Property or any portion thereof to the general public.

5.2 Notices. Whenever any person gives or serves any notice, demand, or other communication with respect to this Covenant, each such notice, demand, or other communication shall be in writing and shall be deemed effective (1) when delivered, if personally delivered to the person being served or official of a government agency being served, or (2) three (3) business days after deposit in the mail if mailed by United States mail, postage paid certified, return receipt requested:

If To: "Covenantor"
Pacific Gas and Electric Company
Director – Environmental Remediation
3401 Crow Canyon Rd.
San Ramon, CA 94583

If To: "Water Board"
Regional Water Quality Control Board
San Francisco Bay Region
Attention: Executive Officer
1515 Clay Street, Suite 1400
Oakland, California 94612

5.3 Partial Invalidity. If any portion of the Restrictions or terms set forth herein is determined to be invalid for any reason, the remaining portion shall remain in full force and effect as if such portion had not been included herein.

5.4 Article Headings. Headings at the beginning of each numbered article of this Covenant are solely for the convenience of the parties and are not a part of the Covenant.

5.5 Recordation. This instrument shall be executed by the Covenantor and by the Executive Officer of the Water Board. This instrument shall be recorded by the Covenantor in the County of San Francisco within ten (10) days of the date of execution.

5.6 References. All references to Code sections include successor provisions.

5.7 Construction. Any general rule of construction to the contrary notwithstanding, this instrument shall be liberally construed in favor of the Covenant to effect the purpose of this

instrument and the policy and purpose of the Water Code. If any provision of this instrument is found to be ambiguous, an interpretation consistent with the purpose of this instrument that would render the provision valid shall be favored over any interpretation that would render it invalid.

IN WITNESS WHEREOF, the parties execute this Covenant as of the date set forth above.

Covenantor:
Pacific Gas and Electric Company

By: Marvin Penner

Marvin Penner
Manager, Land Management
Land & Environmental Management

Date: October 10 2011

Agency:
State of California
Regional Water Quality Board, San Francisco Bay Region

By: Bruce H. Wolfe

Title: Executive Officer

Date: Bruce H. Wolfe
Sept. 15, 2011

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

CIVIL CODE § 1189

State of California
County of Alameda

On 9/15/11 (Date) before me, Jagbir K. Dhaliwal, Notary Public (Here Insert Name and Title of the Officer),
personally appeared Bruce Hatch Wolfe (Name(s) of Signer(s)),

who proved to me on the basis of satisfactory evidence to be the person(~~s~~) whose name(~~s~~) is/~~are~~ subscribed to the within instrument and acknowledged to me that he/~~she~~/~~they~~ executed the same in his/~~her~~/~~their~~ authorized capacity(~~ies~~), and that by his/~~her~~/~~their~~ signature(~~s~~) on the instrument the person(~~s~~), or the entity upon behalf of which the person(~~s~~) acted, executed the instrument.

JAGBIR KAUR DHALIWAL
Commission # 1933964
Notary Public - California
Alameda County
My Comm. Expires May 25, 2015

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature: J Dhaliwal
Signature of Notary Public

Place Notary Seal Above

OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

Description of Attached Document

Title or Type of Document: Covenant & Environmental Restriction on Property
Document Date: September 15, 2011 Number of Pages: 71
Signer(s) Other Than Named Above: n/a

Capacity(ies) Claimed by Signer(s)

Signer's Name: Bruce Hatch Wolfe	Signer's Name: n/a
☐ Corporate Officer — Title(s):	☐ Corporate Officer — Title(s):
☐ Individual	☐ Individual
☐ Partner — ☐ Limited ☐ General	☐ Partner — ☐ Limited ☐ General
☐ Attorney in Fact	☐ Attorney in Fact
☐ Trustee	☐ Trustee
☐ Guardian or Conservator	☐ Guardian or Conservator
☒ Other: Executive Officer	☐ Other:
Signer Is Representing: RNQCB	Signer Is Representing:
RIGHT THUMBPRINT OF SIGNER — Top of thumb here	RIGHT THUMBPRINT OF SIGNER — Top of thumb here

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Item #5907

****

STATE OF CALIFORNIA

COUNTY OF SAN FRANCISCO }SS.

On October 10, 2011 before me, Thomas Chin, Notary Public,

personally appeared ***Marvin Penner***,

who proved to me on the basis of satisfactory evidence to be the person(~~s~~) whose name(~~s~~) is/~~are~~ subscribed to the within instrument and acknowledged to me that he/~~she/they~~ executed the same in his/~~her/their~~ authorized capacity(~~ies~~), and that by his/~~her/their~~ signature(~~s~~) on the instrument the person(~~s~~), or the entity upon behalf of which the person(~~s~~) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

THOMAS CHIN
Commission # 1864763
Notary Public - California
San Francisco County
My Comm. Expires Sep 25, 2013

Signature

CAPACITY CLAIMED BY SIGNER: (x) Other: Manager, Land Management
Land & Environmental Management

Title or Type of Document: Covenant and Environmental Restriction on Property (Potrero Switchyard and General Construction Yard)

EXHIBIT A

LEGAL DESCRIPTION OF PROPERTY

2008412 (22-08-136) 12 08 1
Potrero Switchyard Deed Restriction

EXHIBIT "A"

The real property situate in the City and County of San Francisco, State of California, described as follows:

(APN 4175-007)

PARCEL 1

The parcel of land designated LOT 7, ASSESSOR'S BLOCK 4175, in EXHIBIT B – NEW PARCEL DESCRIPTIONS attached to the Certificate of Compliance recorded April 22, 2002 on Reel I121 of Official Records as image 0670, Records of the City and County of San Francisco, and described as follows:

BEGINNING at the point of intersection of the northerly line of 23rd Street with the easterly line of Illinois Street; thence along said line of 23rd Street

(1) north 86°49'44" east 314.30 feet; thence
(2) north 03°10'16" west 73.17 feet; thence
(3) north 32°46'18" west 72.56 feet; thence
(4) north 03°10'16" west 149.59 feet; thence
(5) south 86°49'44" west 15.75 feet; thence
(6) north 03°41'19" west 148.65 feet; thence
(7) north 87°24'17" east 76.76 feet; thence
(8) north 03°10'16" west 121.47 feet; thence
(9) north 86°49'44" east 35.24 feet; thence
(10) south 71°40'08" east 47.67 feet; thence
(11) north 70°10'11" east 76.13 feet; thence
(12) north 82°22'09" east 52.89 feet; thence
(13) north 03°10'16" west 148.53 feet

to a line that is perpendicularly distant 154 feet southerly from the southerly line of former 22nd Street, as said street existed prior to the vacation thereof per Resolution No. 1376 dated October 15, 1940, filed in Book 6A, page 136; thence

(14) north 86°49'44" east 36.62 feet

to the most easterly corner of that certain parcel of land described in that deed to Pacific Gas and Electric Company from Columbia Steel Company dated November 14, 1940 and recorded December 3, 1940, in Book 3706 of Official Records, page 2; thence along the easterly line of said Pacific Gas and Electric Company parcel

(15) north 23°55'02" west 56.46 feet;

thence along the northeasterly line of said Pacific Gas and Electric Company parcel and along the southerly line of that certain parcel of land described in that deed from Pacific Gas and Electric Company to Columbia Steel Company, dated November 14, 1940 and recorded December 3, 1940, in Book 3706 of Official Records, page 1

(16) north 41°29'53" west 129.00 feet
to said southerly line of 22nd Street; thence along said southerly line of 22nd Street
(17) south 86°49'44" west 200.00 feet
to the easterly line of Michigan Street as said street existed prior to the vacation thereof per Resolution 30892 dated May 13, 1929, by the Board of Supervisors of the City and County of San Francisco, a municipal corporation; thence along said former easterly line of Michigan Street
(18) south 03°10'16" east 400.00 feet
to the northerly line of Humboldt Street as said street existed prior to the vacation thereof per Ordinance No. 116-67, dated May 1, 1967, by the Board of Supervisors of the City and County of San Francisco, a municipal corporation; thence along said northerly line of former Humboldt Street
(19) south 86°49'44" west 40.00 feet
to the westerly line of that portion of Michigan Street closed per aforesaid Resolution 30892; thence along said westerly line of that closed portion of Michigan Street
(20) north 03°10'16" west 400.00 feet
to said southerly line of 22nd Street; thence along said southerly line of 22nd Street
(21) south 86°49'44" west 240.00 feet
to the easterly line of Illinois Street; thence along said easterly line of Illinois Street
(22) south 03°10'16" east 866.175 feet
to the Point of Beginning.

The bearings in the above description are based upon an assumed bearing of South 03°10'16" East along the monument line of Third Street between 22nd Street and 23rd Street.

Being a portion of Potrero Nuevo Blocks No. 429, 430, 443 and 444, and portions of Humboldt Street and Michigan Street as said streets existed prior to the closure (vacation) thereof.

The above description is shown upon the Record of Survey filed for record April 23, 2002 in Book AA of Maps at page 13, Records of the City and County of San Francisco.

PARCEL 2

The parcel of land described and designated PARCEL 1 in the final order of condemnation, wherein Pacific Gas and Electric Company is plaintiff, dated January 21, 2009 and recorded February 3, 2009 on Reel J820 of Official Records as image 0297, Records of the City and County of San Francisco, and therein described as follows:

BEGINNING at the northerly terminus of a course in the general northerly boundary line of LOT 7, as said LOT 7 is shown upon the Record of Survey filed for record April 23, 2002 in Book AA of Maps at page 13, Records of the City and County of

San Francisco, which course has a bearing of S3°10'16"E and a length of 400.00 feet, said northerly terminus being a point in the southerly boundary line of 22nd Street (66 feet wide), as said 22nd Street is shown upon said Record of Survey; thence along said general northerly boundary line

(1) south 3°10'16" east 400.00 feet; thence
(2) south 86°49'44" west 40.00 feet; thence
(3) north 3°10'16" west 400.00 feet

to a point in said southerly boundary line; thence leaving said general northerly boundary line and along said southerly boundary line

(4) north 86°49'44" east 40.00 feet

to the Point of Beginning.

The description of the parcel of land hereinbefore described and designated PARCEL 2 is based on said Record of Survey filed for record April 23, 2002.

LICENSED LAND SURVEYOR
PIERRE W. HURTER
EXP. 9/30/10
NO. 6726
STATE OF CALIFORNIA

APPROVED AS TO DESCRIPTION

PIERRE W. HURTER
L.S. 6726

Land Dept Document Control Number 2008412
Area 1, Golden Gate Region, San Francisco Division
Land Service Office: San Francisco
Operating Department: Potrero PP Switchyard
T2S, R5W, MDM
Sec 14, SW4
Sec 15, SE4
FERC License Number: NA
PG&E Drawing Number: D-3975, F-0080, Sh 1
Plat No.: Elec = B0522; Gas = 18-4-C05
LD of affected documents: XXSF-00-3869; XXSF-00-3997
LD of any cross-referenced documents: XXSF-00-0255
Type of Interest: 42 (Deed Restriction)
SBE Parcel Numbers: 135-38-024D, Pcl 2
Quitclaims: NA
Order #: 8042569
JCN: 22-08-136
County: San Francisco
Utility Notice Numbers: NA
851 Approval Application No.: NA
Prepared By: TEP
Checked By:

T.2S., R.5W., M.D.B. & M.
SW 1/4 SECTION 14
SE 1/4 SECTION 15

CITY OF SAN FRANCISCO

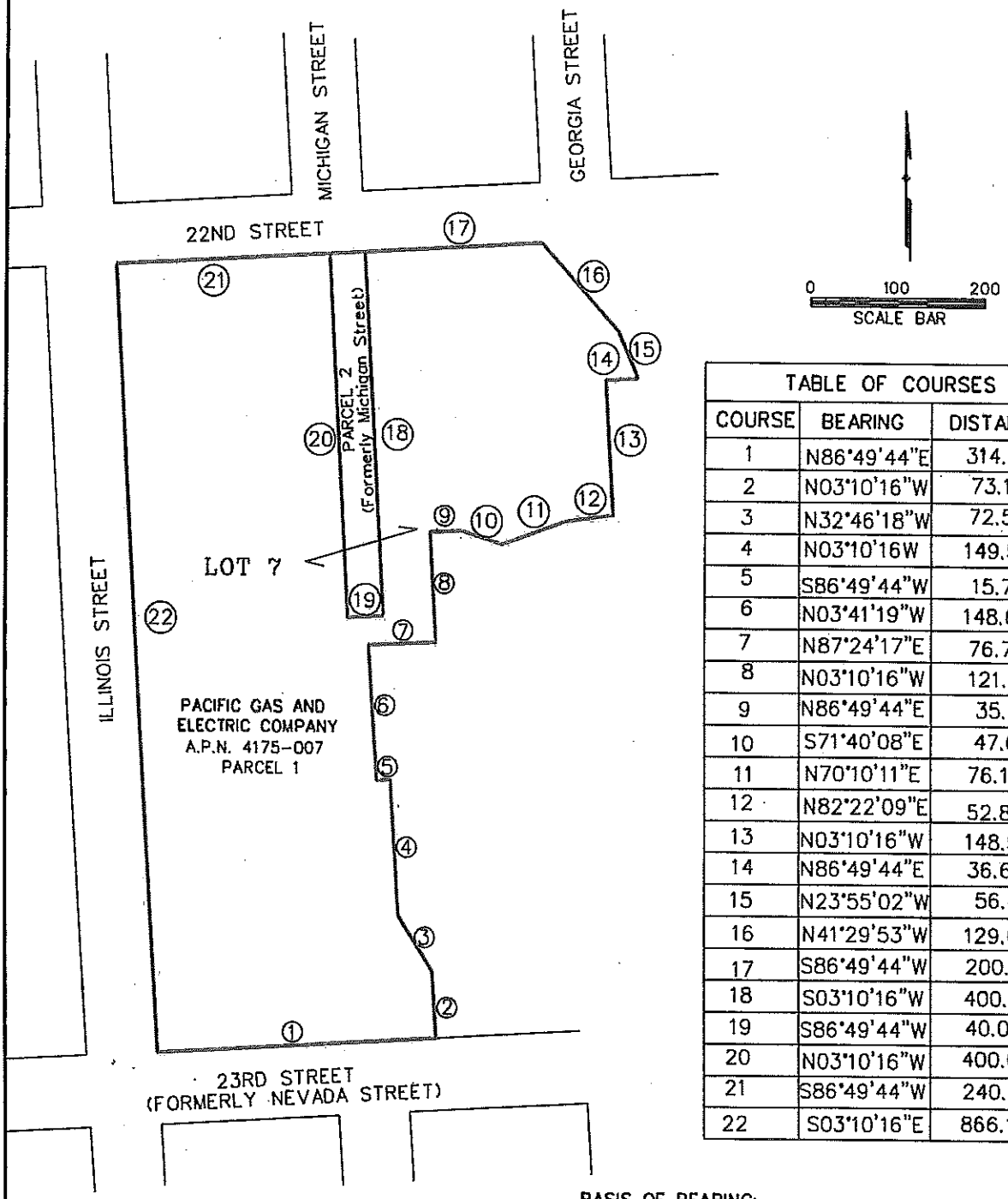

TABLE OF COURSES		
COURSE	BEARING	DISTANCE
1	N86°49'44"E	314.30'
2	N03°10'16"W	73.17'
3	N32°46'18"W	72.56'
4	N03°10'16W	149.59'
5	S86°49'44"W	15.75'
6	N03°41'19"W	148.65'
7	N87°24'17"E	76.76'
8	N03°10'16"W	121.47'
9	N86°49'44"E	35.24'
10	S71°40'08"E	47.67'
11	N70°10'11"E	76.13'
12	N82°22'09"E	52.89'
13	N03°10'16"W	148.53'
14	N86°49'44"E	36.62'
15	N23°55'02"W	56.46'
16	N41°29'53"W	129.00'
17	S86°49'44"W	200.00'
18	S03°10'16"W	400.00'
19	S86°49'44"W	40.00'
20	N03°10'16"W	400.00'
21	S86°49'44"W	240.00'
22	S03°10'16"E	866.175'

GOLDEN GATE REGION
SAN FRANCISCO DIVISION
REFC. DWG D-3975, F-0080 SHEET 1
S.B.E. 135-38-0240, PARCEL 2

BASIS OF BEARING:
ASSUMED BEARING OF S 03°10'16" E ALONG MONUMENT LINE OF THIRD STREET BETWEEN 22ND STREET AND 23RD STREET PER RECORD OF SURVEY FILED IN BOOK AA OF MAPS 13-14.

AUTHORIZATION 8042569	
BY	C. MURPHY
DR	DAOUDA BA
CH	S. FREEMAN
O.K.	C. MURPHY
DATE	1-25-2010

POTRERO SWITCHYARD
LEGAL DESCRIPTION

PACIFIC GAS AND ELECTRIC COMPANY
San Francisco California

JCN 22-08-136
AREA 1
COUNTY SAN FRANCISCO
SCALE N/A
SHEET NO. 1 OF 1
DRAWING NUMBER L-9119
CHANGE

C:\Data\landproj\2208136 POTRERO SWITCHYARD\L-9119.dgn

EXHIBIT B

SOIL MANAGEMENT PLAN SUMMARY

SITE MANAGEMENT PLAN SUMMARY

Potrero Power Plant Site
Switchyard and General Construction Yard
1201 Illinois Street
San Francisco, California

This document summarizes for informational purposes but does not replace the Site Management Plan, Potrero Power Plant Site, Switchyard and General Construction Yard, 1201 Illinois Street, San Francisco, California (SMP), dated February, 2011, prepared by AMEC Geomatrix Inc (AMEC) for Pacific Gas and Electric Company (PG&E). The SMP addresses specific chemicals in soil and does NOT address any other health and safety issues related to any other hazards or activities (including, but not limited to, electrical hazards, trenching and shoring and weather-related hazards). Additional health and safety measures may be required for any onsite activity.

The current use of the seven acre property addressed in the SMP is as a major PG&E substation/switchyard and a PG&E general construction yard (SY/GC site), located in a commercial/industrial area of San Francisco. The SY/GC site is bisected west to east by Humboldt Street. The substation area on the north side of Humboldt Street is referred to as the North Switchyard and to the south of Humboldt Street as the South Switchyard. The General Construction (GC) Yard is located north of Humboldt Street and east of the North Switchyard.

For more information on any topic summarized below, please refer to the noted sections of the SMP. ***The SMP and not this informational summary is to be followed for any activities that will bring on-site workers into contact with potentially contaminated soils or groundwater, such as excavation, trenching, or other soil intrusive work. In addition, a Land Use Covenant for the SY/GC site requires the SMP be followed.***

Before beginning work at the SY/GC site, the responsible PG&E worker should notify the PG&E Environmental Field Specialist and Potrero MGP Project Manager for the SY/GC site. The Environmental Potrero MGP Project Manager will determine if the Water Board needs to be notified about upcoming work. In addition, even though the SY/GC site is not used for manufactured gas plant (MGP) operations (other than former manufactured gas storage), PG&E workers should also follow PG&E's guidance for disturbing soil at former Manufactured Gas Plant sites (Appendix C in SMP).

HISTORY
(SMP – SECTIONS 2.2 AND 2.3)

The SY/GC has been used for industrial purposes since the 1880s. Historic uses included barrel manufacturing, roofing products manufacturing, and materials storage (gas holder) for a MGP that operated on the adjacent property. The gas holder was present in the eastern portion of the GC Yard.

The southern portion of the substation/switchyard was constructed in the 1960s. The substation expanded to the north (across Humboldt Street) starting in 2002. The substation currently includes a 12 kilovolt (kV) Control Building; a 115 kV subsurface terminus; a static VAR compensation facility; overhead transmission lines; and associated equipment (e.g. transformers and capacitors). There are no polychlorinated biphenyls (PCBs) in the existing electrical equipment. The substation/switchyard is surrounded by a chain link fence topped with barbed wire and is paved or covered with gravel. An oil catch basin (north of Humboldt Street) is used for secondary containment and a storm water retention pond is located along the southern boundary. The GC yard currently includes a maintenance and administrative building; a warehouse storage building; and equipment containers. The GC yard is paved and surrounded by a chain link fence.

The SY/GC has been investigated since the early-1990's, as part of a larger investigation that included properties to the east and to the north. The primary constituents evaluated were benzene, toluene, ethylbenzene and xylenes (collectively referred to as BTEX); total petroleum hydrocarbons (TPH); polyaromatic hydrocarbons (PAHs); metals; and naturally occurring asbestos (NOA). PCBs were also analyzed in several samples. Below is a summary of what was found during the site investigations. A site-specific human health risk assessment, *Report of Results and Human Health Risk Assessment, Soil and Groundwater Investigation, Switchyard and General Construction Yard, Potrero Power Plant Site, 1201 Illinois Street, San Francisco, California*, dated November 2003 (HHRA), and prepared by Geomatrix Consultants, was also conducted to evaluate the potential risk to industrial and commercial workers. The HHRA indicated that, based on existing industrial site land use and site conditions, potential exposure to chemicals in soil and groundwater do not pose an unacceptable human health risk for commercial workers, construction workers, or maintenance workers. However, to minimize exposure to residual chemical in soil that may be encountered during intrusive work, the SMP presents guidelines for appropriate health and safety precautions for on-site construction or maintenance workers; and for management of residual constituents present in soil and groundwater.

POTENTIAL CONTAMINANTS
(SITE MANAGEMENT PLAN – SECTION 3 AND APPENDICES A & B)

SITE SOILS AND GROUNDWATER:

Most of the soils at the SY/GC either do not contain the contaminants listed below, or, if present, they are at concentrations that would not present an unacceptable risk to human health for industrial or commercial on-site workers. Note that much of the soil and underlying bedrock is derived from serpentinite rock which is typically high in nickel, chromium, and NOA. Below is a summary of contaminants that may be found in shallow soil, along with the maximum concentrations detected[1]:

SOILS:

Total Petroleum Hydrocarbons (TPH):

- TPH as diesel – Not Detected (ND) to 8,900 milligrams per kilogram (mg/kg)
- TPH as motor oil – ND to 8,400 mg/kg

Polyaromatic hydrocarbons (PAHs); including two representative PAHs:

- Total PAHs – ND to 3,974 mg/kg
- Benzo(a)pyrene – ND to 68 mg/kg
- Benzo(a)pyrene Equivalent Concentration[2] – ND to 91 mg/kg
- Naphthalene – ND to 3,300 mg/kg

Metals were typically detected at background concentrations; however, the following metals were present at concentrations greater than background:

- Arsenic – ND to 25 mg/kg
- Cobalt – 4.5 mg/kg to 84 mg/kg
- Total Chromium – 25 mg/kg to 1,700 mg/kg
- Lead – ND to 660 mg/kg
- Nickel – 33 mg/kg to 2,000 mg/kg

Naturally Occurring Asbestos (NOA) – ND to 3%

Volatile Organic Compounds (VOCs):

- Benzene – ND to 26 mg/kg

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[1] Separate-phase hydrocarbon product encountered at the site may contain contaminants at significantly higher concentrations.

[2] Benzo(a)pyrene (B[a]P) equivalent concentrations for each soil or groundwater sample were calculated by multiplying the Cal/EPA potency equivalency factor for the individual carcinogenic PAHs by the concentration of each individual carcinogenic PAH in a sample and summing the resulting B(a)P equivalent values. The carcinogenic PAHs (cPAH) used to convert concentrations into B(a)P equivalents are: benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene.

- Toluene – ND to 31 mg/kg
- Ethylbenzene – ND to 61 mg/kg
- Xylenes – ND to 200 mg/kg.

Pesticides – (e.g., endrin and heptachlor)

- Endrin – ND to 0.0095 mg/kg
- Heptachlor – ND to 0.019 mg/kg

Total Cyanide – ND to 5.7 mg/kg.

Polychlorinated Biphenyls (PCBs) – ND

GROUNDWATER:

Measured depth to groundwater across has ranged from approximately 7 to 20 feet below ground surface (bgs). Chemical constituents were either not detected in groundwater or were present at low levels. However, the following were detected during groundwater sampling:

Metals:

- Antimony – ND to 6.6 micrograms per liter (µg/L)
- Arsenic – 18 µg/L to 42 µg/L
- Barium – 20 µg/L to 45 µg/L
- Chromium – ND to 69 µg/L mg/l
- Nickel – ND to 8.4 µg/L
- Selenium – 6.8 µg/L to 21 µg/L

PAHs, including two representative PAHs:

- Total PAHs – ND to 7.03 µg/L
- Benzo(a)pyrene – ND to 0.19 µg/L
- Benzo(a)pyrene Equivalent Concentration – ND to 0.273 µg/L
- Naphthalene – ND to 0.23 µg/L

Cyanide:

- Total Cyanide - ND to 920 µg/L
- Weak Acid Dissociable Cyanide – ND to 1,600 µg/L

TPHd – ND to 620 µg/L

Benzene – ND to 15 µg/L

Phenols, TPHmo, and toluene, ethylbenzene and xylenes were not detected in site groundwater samples

INTRUSIVE WORK - RECOMMENDED WORKER PROTECTION (SMP – SECTION 6 AND APPENDIX C)

All applicable federal, state, and local regulations and codes related to health and safety shall be followed, including all sections of the California Occupational Safety and Health Administration (Cal-OSHA) regulations contained in Title 8 of the California Code of Regulation as they apply to site activities. For intrusive work, the following minimal worker protective clothing is recommended (note that non-PG&E workers are responsible for their own worker protection):

- Work Boots
- Gloves
- Long Sleeved Shirts
- Hard Hat
- Safety Glasses
- Flame Resistant Clothing

If strong odors or discolored soil is encountered – it is recommended that photo-ionization detector (PID), or equivalent, measurements be taken to determine if respiratory equipment is warranted. And for work conducted by PG&E crews, the PG&E Environmental Specialist is to be consulted.

Since NOA is present greater than 1%, additional requirements need to be followed (see *Soil Excavation – Dust Control Measures* section below).

Appropriate decontamination and personal hygiene procedures shall be followed.

If MGP residues are encountered (often present as black, tarry material or a powdery charcoal-like substance, known as lampblack), stop work, secure the area, notify the Environmental Field Specialist and the PG&E Potrero MGP Project Manager (if PG&E workers) and evaluate whether additional measures are needed.

SOIL EXCAVATION – DUST CONTROL MEASURES (SMP - SECTION 7.0 AND APPENDIX D)

Because NOA is present, the dust control measures required by the California Air Resources Board, in CCR Title 17, Section 93105 are to be followed (see below for additional information on NOA regulation). These procedures will also minimize exposures to residual chemicals in soil.

Generally, the procedures involve minimizing the amount of visible dust generated by keeping unpaved areas, disturbed areas, and stockpiled soils wetted, treated with a chemical dust suppressant or covered with appropriate material. Additional measures include washing

equipment down that has come into contact with the underlying soil and using measures to prevent the track-out of soil.

Depending upon the activity, dust monitoring, or additional dust measures, may need to be implemented.

NOA REGULATORY INFORMATION

NOA is regulated by the California Air Resources Board. For construction and grading operations that disturb greater than one acre, the Air Pollution Control Officer (for the Bay Area Air Quality Management District [BAAQMD]) is to be notified in writing at least 14 days before beginning the construction or maintenance activities. An Asbestos Dust Mitigation Plan must be submitted to and approved by BAAQMD before the start of construction. The mitigation measures to be taken are presented in Section 7 and Appendix D of the SMP or in the California Code of Regulations (CCR) Title referenced below.

For construction and grading operations that disturb less that one acre, work practices discussed in Section 7 of the SMP should be followed. Dust mitigation measures to be followed are presented in Section 7 and Appendix D of the SMP and in the CCR Title referenced below.

California Code of Regulations (CCR), Title 17, Section 93105 contains the requirements for construction work in areas with NOA, titled "*Final Regulation Order for Asbestos -Airborne Toxic Control Measure for Construction, Grading, Quarrying, and Surface Mining Operations*". The website for this regulation is: http://www.arb.ca.gov/toxics/atcm/asb2atcm.htm

SOIL EXCAVATION – SOIL MANAGEMENT/STOCKPILE CONTROL (SMP – SECTION 8.1)

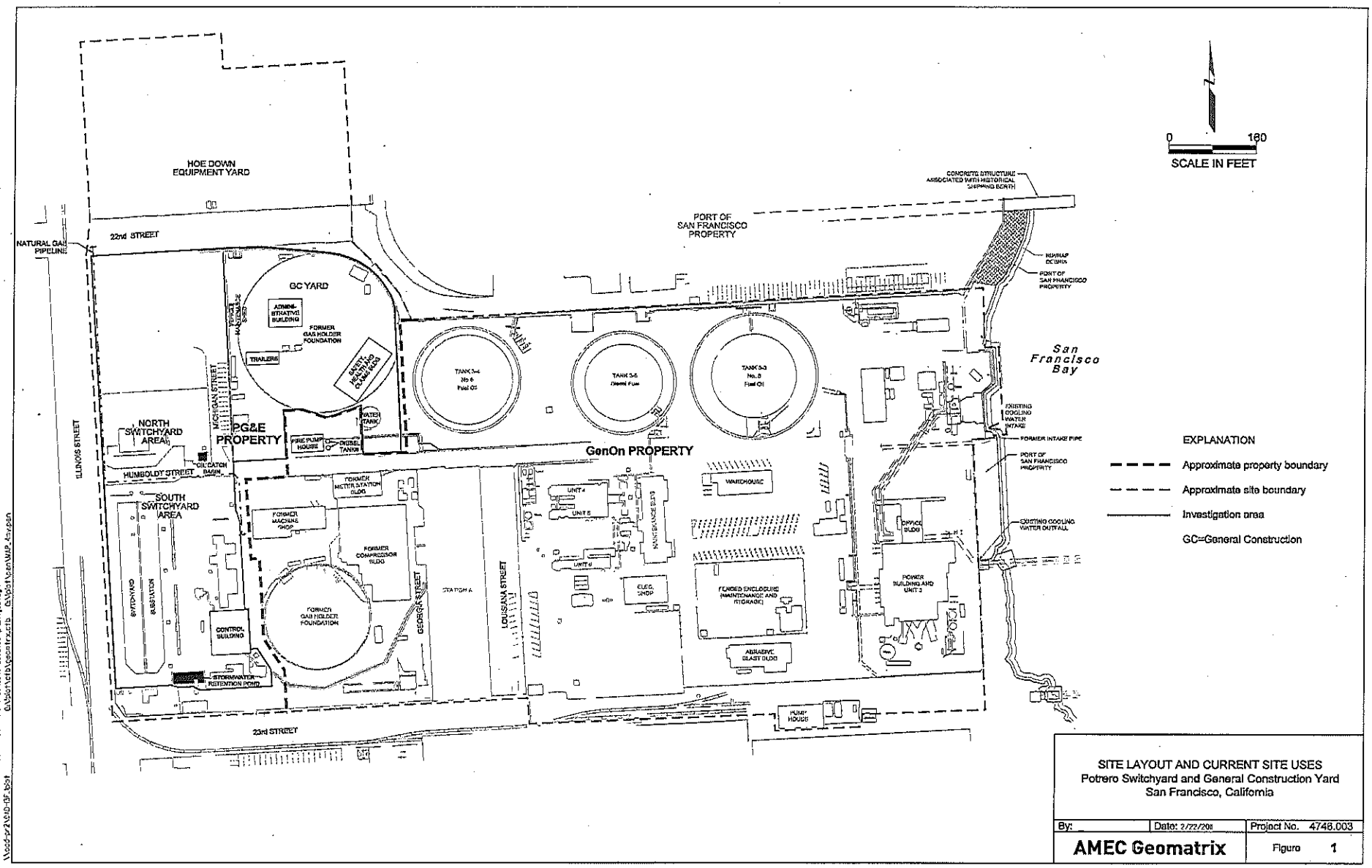
Because NOA is present, soil excavation requires dust control measures be implemented to prevent the formation of dust. Soil stockpiles shall be kept wet, treated with a chemical dust suppressant and/or covered with a suitable tarp to prevent wind erosion and dust generation. Stockpiles are to be secured (e.g., fenced) or otherwise protected to limit public access. These measures are also appropriate if MGP residues are encountered.

SOIL EXCAVATION – OFF-SITE SOIL DISPOSAL (SMP – SECTION 8.1)

Soil encountered during excavation activities shall be stockpiled and evaluated for potential on-site re-use. This evaluation may require chemical testing of the material for metals, soluble metals, NOA, PAHs, TPH, and benzene, toluene, ethylbenzene, and xylenes. Because excavated soil could contain elevated levels of total and/or soluble metals or other constituents, special handling for off-site disposal may be required.

GROUNDWATER MANAGEMENT
(SMP – SECTION 8.1)

It is unlikely that groundwater will be encountered during routing maintenance activities as groundwater is approximately 7 to 20 feet below the ground surface, but for deep excavations groundwater must be addressed. Appropriate precautions may include using a temporary storage tank (e.g., Baker tank) to hold water until it can be sampled and disposed of appropriately.



SITE LAYOUT AND CURRENT SITE USES
Potrero Switchyard and General Construction Yard
San Francisco, California

By:	Date: 2/22/200	Project No. 4746.003
AMEC Geomatrix		Figure 1

APPENDIX B
List of PG&E-Approved Disposal Facilities

LIST OF LANDFILLS

1. CLASS I HAZARDOUS WASTE FACILITIES

1.1. Stericycle Rancho Cordova Facility (TREATMENT AND STORAGE)
11855 White Rock Road
Rancho Cordova, CA 95742
Note: Does not accept PCB waste.

1.2. Chemical Waste Management - Kettleman Hills Facility (LANDFILL, TSDF)
35251 Old Skyline Road
Kettleman City, CA 93239-0471

1.3. Chemical Waste Management of the Northwest (LANDFILL, TSDF)
17629 Cedar Springs Lane
Arlington, OR 97812

1.4. Clean Harbors Aragonite Incineration Facility (INCINERATOR, TSDF)
11600 North Aptus Road
Aragonite, UT 84029

1.5. Clean Harbors Buttonwillow Landfill Facility (LANDFILL, TSDF)
2500 West Lokern Road
Buttonwillow, CA 93206

1.6. Clean Harbors Deer Park Incineration Facility (INCINERATOR)
2027 Independence Parkway South
La Porte, TX 77571

1.7. Clean Harbors Kimball Incineration Facility (INCINERATOR)
2247 South Highway 71
Kimball, NE 69145

1.8. Clean Harbors El Dorado Incineration Facility (INCINERATOR)
309 American Circle
El Dorado, AR 71730

1.9. Clean Harbors Grassy Mountain Landfill Facility (LANDFILL)
3 miles east and 7 miles north of Knolls, UT, Exit 41 off I-80
Grantsville, UT 84029
5295 South Garvey Road
Westmorland, CA 92281

1.11. Clean Harbors San Jose Facility (TSDF)
1021 Berryessa Road
San Jose, CA 95133
Note: Services include wastewater treatment.

1.12. Clean Harbors Wilmington Facility (TSDF)
1737 East Denni Street
Wilmington, CA 90744
Note: Services include fuel blending.

1.13. Filter Recycling Services (RECYCLER, TSDF)
180 W. Monte Avenue
Rialto, CA 92376
Note: Services include oil filter recycling. Does not accept RCRA waste.

1.14. US Ecology Nevada (LANDFILL, TSDF)
Highway 95 (12 miles South of Beatty, NV)
Beatty, NV 89003

1.15. US Ecology Idaho, Inc. (LANDFILL, TSDF)
10.5 miles NW Highway 78, Lemley Road
Grand View, ID 83624

1.16. Veolia Environmental Services Phoenix (RECYCLER)
5736 West Jefferson Street
Phoenix, AZ 85043
Note: Services include recycling of e-waste and lamps.

1.17. Veolia Environmental Services Port Arthur Facility (INCINERATOR)
Highway 73 (3.5 miles West of Taylors Bayou)
Port Arthur, TX 77640

1.18. Veolia Environmental Services Trade Waste Incineration (INCINERATOR)
7 Mobile Avenue
Sauget, IL 62201

1.19. Veolia ES Technical Solutions Asuza (RECYCLER)
1704 W 1stStreet
Asuza, CA 91702
Note: Services include solvent recycling and non-PCB (<2 ppm) OFEE oil recycling.

1.20. Liquid Environmental Solutions of Arizona (RECYCLER)
5159 W. Van Buren Street
Phoenix, AZ 85043
Note: Services include non-hazardous water and oily water treatment.

1.21. Safety Kleen of California (RECYCLER)
6880 Smith Avenue
Newark, CA 94560
Note: Services include oil recycling and non-hazardous water treatment.

1.22. Thermo Fluids (RECYCLER)
4301 West Jefferson Street
Phoenix, AZ 85043
Note: Services include oil recycling.

1.23. Arizona Waste Oil Services (RECYCLER)
5885 South Mann Avenue
Tucson, AZ 85756
Note: Services include transformer oil recycling.

1.24. Environmental Management Systems (RECYCLER)
2132 South 5thAvenue
Phoenix, AZ 85003
Note: Services include transformer oil recycling.

1.25. Emerald Transformer (RECYCLER OF TRANSFORMERS)
5756 Alba Street
Los Angeles, CA 90058

1.26. Transformer Technologies (RECYCLER OF TRANSFORMERS)
4709 Turner Road SE
Salem, OR 97317
Note: Services include recycling of transformers.

1.27. Kinsbursky Brothers (RECYCLER)
1314 North Lemon Street
Anaheim, CA 92801
Note: Services include battery recycling.

1.28. Bethlehem Apparatus (MERCURY RECOVERY AND DISPOSAL)
890 Front Street
Hellertown, PA 18055
Note: Services include mercury disposal.

1.29. Evoqua Water Technologies (RECYCLER)
(Formerly Siemens Water Technologies Corp.)
5375 South Boyle Avenue
Los Angeles, CA 90058
Note: Services include wastewater treatment.

2. CLASS II NON-HAZARDOUS WASTE FACILITIES

2.1. Recology Hay Road (LANDFILL)
6426 Hay Road
Vacaville, CA 95687
Note: Accepts friable asbestos.

2.2. Waste Management - Altamont Landfill and Resource Recovery Facility (LANDFILL)
10840 Altamont Pass Road
Livermore, CA 94551
Note: Accepts friable asbestos.

2.3. Waste Management - Anderson Landfill (LANDFILL)
18703 Cambridge Road
Anderson, CA 96007

2.4. Waste Management - McKittrick Waste Landfill (LANDFILL)
56533 Highway 58 West
McKittrick, CA 93251

2.5. Waste Management - Kirby Canyon Landfill (LANDFILL)
910 Coyote Creek Golf Drive
Morgan Hill, CA 95037

2.6. Waste Management - Redwood Landfill (LANDFILL)
8950 Redwood Highway
Novato, CA 94945

2.7. Waste Management, Inc. - Butterfield Station (LANDFILL)
40404 South 99thAvenue
Mobile, AZ 85339

2.8. Forward Landfill - Landfill (Republic Services) (LANDFILL)
9999 South Austin Road
Manteca, CA 95336
Note: Accepts friable asbestos.

2.9. Ox Mountain Sanitary Landfill (Republic Services) (LANDFILL)
12310 San Mateo Road
Half Moon Bay, CA 94019

2.10. Newby Island Sanitary Landfill (Republic Services) (LANDFILL)
1601 Dixon Landing Road
Milpitas, CA 95035

2.11. Keller Canyon Landfill (Republic Services) (LANDFILL)
901 Bailey Road
Pittsburg, CA 94565

2.12. La Paz County Landfill (operated by Republic Services) (LANDFILL)
26999 Hwy 95, Mile Post 128 (four miles south of the Hwy 95/Hwy 72 junction)
Parker, AZ 85344

3. CLASS III NON-HAZARDOUS WASTE FACILITIES

3.1. Waste Management - Guadalupe Landfill (LANDFILL)
15999 Guadalupe Mines Road
San Jose, CA 95120

3.2. Waste Management - Lancaster Landfill (LANDFILL)
600 E Ave F
Lancaster, CA 93535

3.3. Vasco Road Landfill (Republic Services) (LANDFILL)
4001 North Vasco Road
Livermore, CA 94550

3.4. Copper Mountain Landfill (Republic Services) (LANDFILL)
34853 E County 12thSt
Wellton, AZ 85356

3.5. Marina Landfill - Monterey Regional Waste Management District (LANDFILL)
14201 Del Monte Boulevard
Marina, CA 93908

3.6. Recology Ostrom Road Landfill (LANDFILL)
5900 Ostrom Road
Wheatland, CA 95692

3.7. Potrero Hills Landfill (LANDFILL)
3675 Potrero Hills Ln
Suisun City, CA 94585
Note: Accepts nonhazardous liquids and wet spoils.

3.8. Avenal Landfill (LANDFILL)
1200 Skyline Boulevard
Avenal, CA 93204

3.9. Billy Wright Landfill (LANDFILL)
17173 Billy Wright Road
Los Banos, CA 95365

3.10. Johnson Canyon Sanitary Landfill (LANDFILL)
31400 Johnson Canyon Road
Gonzales, CA 93926

3.11. Santa Maria Regional Landfill (LANDFILL)
2065 East Main Street
Santa Maria, CA 93454

3.12. Teapot Dome Disposal Site (LANDFILL)
21063 Avenue 128
Porterville, CA 93257

3.13. Yolo County Central Landfill (LANDFILL)
44090 County Road 28H
Woodland, CA 95776

3.14. Fairmead Landfill (LANDFILL)
21739 Road 19
Chowchilla, CA 93610

APPENDIX C
Water Board Approval for Residential Uses

Geosyntec consultants

engineers | scientists | innovators

RESIDENTIAL USE HUMAN HEALTH RISK EVALUATION

Station A, Unit 3, Tank Farm, and Northeast Areas, Former Potrero Power Plant San Francisco, California

Prepared for

California Barrel Company, LLC
240 23rd Street
San Francisco, CA 94107

Prepared by

Geosyntec Consultants, Inc.
1111 Broadway, 6th Floor
Oakland, California 94607

Project Number: WR2273

August 14, 2020

Geosyntec consultants

RESIDENTIAL USE HUMAN HEALTH RISK EVALUATION

Station A, Unit 3, Tank Farm, and Northeast Areas, Former Potrero Power Plant Site San Francisco, California

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1. INTRODUCTION

On behalf of California Barrel Company LLC (CBC), Geosyntec Consultants, Inc. (Geosyntec) has prepared this Residential Use Human Health Risk Evaluation for a portion of the former Potrero Power Plant, San Francisco, California (**Site**; **Figure 1**). This evaluation has been prepared for the San Francisco Bay Area Regional Water Quality Control Board (Water Board) pursuant to Section 4.1 of the Covenant and Environmental Restriction on Property (Covenant; recorded on August 12, 2016 in the official records of the City and County of San Francisco, California as document number 2016-K305568-00) and Appendix B of the Station A RMP, dated June 16, 2016[1]. As stated in the Covenant, Article III, Paragraph 3.1 (b), "*No temporary residence (including hotels, motels, and the like) for human habitation; no park, playground, or other areas for recreation use; and no day care centers for children or day care centers for Senior Citizens shall be permitted in the Burdened Property*." Paragraph B 1.0 of Appendix B of the Station A RMP states that "*A change in land use from approved land uses…to currently restricted land uses…requires written approval from the Water Board staff*."

In accordance with these conditions and to facilitate a planned redevelopment of the **Site**, CBC seeks approval from the Water Board to include residential uses, parks, playgrounds, and day care uses for children for portions of the Station A Area, Power Unit 3 Area, Tank Farm Area, and Northeast Area of the **Site**. This report presents a description of the project, an evaluation of potential risks to future residential receptors, and our conclusions regarding proposed mitigation measures to protect future residents from potential chemical exposures.

As presented herein, this request for approval of a change in land use meets the requirements of Article IV, Section 4.1 of the Covenant and Appendix B of the Station A RMP, and the analysis shows that approval of the proposed change in land use will not result in adverse risks to human health for the intended residential, parks, playgrounds, and child day care land uses provided that risk mitigation and management measures are implemented.

For purposes of environmental investigation and remediation, the **Site** was delineated into seven subareas by PG&E and the California Regional Water Quality Control Board – San Francisco Bay Region (Water Board). This Residential Use Human Health Risk Evaluation is focused on residential redevelopment uses that are planned for portions of four of the areas identified as the Station A Area, Unit 3 Area, Tank Farm Area, and the Northeast Area (**Figure 2**).

[1] Haley & Aldrich, 2016. Risk Management Plan, Station A CBC (Formerly NRG) Area, Potrero Power Plant, San Francisco, California. June 16.

2. DESCRIPTION OF THE PROJECT

The proposed Potrero Power Station Mixed-Use Development Project ("Potrero Power Station" or "**PPS**") site is an irregularly shaped area generally bounded by 22nd Street to the north, the San Francisco Bay to the east, 23rd Street to the south (described below) and Illinois Street to the west (**Figure 1**). CBC is the **PPS** master developer and has initiated rezoning and developed design standards and controls for a multi-phased, mixed-use development. CBC received Planning Commission approval of the project on January 30, 2020 and Board of Supervisors approval in April 21, 2020.

As approved, CBC would develop market-rate and affordable residential uses, child day care uses, commercial mixed uses (including office and research and development uses), hotel use, community facility uses, retail and other active uses, and parking. The PPS would also include public access areas and open space, a rooftop soccer field and other active open space uses, shoreline improvements, a recreational boat dock, an internal grid of public streets, shared public ways, all with supporting utilities infrastructure. CBC has organized the **PPS** into 13 development blocks. The configuration of the development blocks and associated land uses are shown in **Figure 3**. The correlation of the development blocks with the PG&E remediation areas is as follows:

- Station A Area: Development Blocks 5, 7, 8, 11, 12, and 15;
- Unit 3 Area: The southern portion of Development Block 9;
- Tank Farm Area: Development Blocks 2 and 3 and a portion of Block 1;
- Northeast Area: Development Block 4 and the northern portion of Block 9; and
- PG&E's Switchyard and Construction Yard: Development Blocks 13 and 14 and a portion of Block 1.

All Blocks are planned to include at least one level of below grade parking beneath the ground floor of the building, with the exception of Development Block 15 (existing Station A Compressor Building) and Development Block 9 (Existing Power Unit 3 structure and future adjoining building). For the Development Blocks with below grade parking, the first floor (at grade floor above the parking basement) will consist of one or a combination of commercial units, public spaces (lobby area, fitness center, café, etc.), and/or residential units. No residential units are planned to be on the ground floor where the building foundation is in contact with Site soil; however, the hotel and/or high/density residential building proposed for Development Block 9 may include ground floor hotel rooms/residential units. Day care uses may be located within buildings on Blocks 5, 7, 8, 11, and/or 12 and a playground area in Power Station Park (**Figure 3**).

3. EVALUATION OF POTENTIAL HUMAN HEALTH RISKS

3.1 Site History

Different areas of the **Site** have been used for various commercial and industrial activities since 1872, including sugar refining, barrel manufacturing, electric power generation, and a manufactured gas plant (MGP). The last of these activities, electric power generation, was concluded in 2011.

In 1872, City Gas Company began operating the Potrero MGP in the Northeast and Tank Farm Areas (**Figure 2**). PG&E acquired the Potrero MGP in 1906 and operated it until 1930, when the plant was placed on standby upon arrival of natural gas in the San Francisco Bay area. Gas from the MGP facilities fed the adjacent Station A steam electric plant as well as other uses. The MGP facilities were dismantled in the early 1960s. Following MGP operations, the Tank Farm Area has been used for the storage of fuel oil and distillate fuels including diesel in three aboveground storage tanks (ASTs) for electric power generation operations.

Historical operations within the Station A and Unit 3 Areas included power generation and sugar refining, which were initiated in the early 1880s. Sugar refining continued until the 1950s and electric power generation until 2011. The Station A electric power generation facility, which was constructed in 1910, used steam turbines to generate electric power until the late 1960s. A gas holder used for storing manufactured/natural gas was located west of the Station A building. The gas holder was decommissioned and removed by the late 1970s. The Station A building is currently vacant, locked, and has restricted access. The Power Unit 3, which was constructed in 1965, used steam turbines to generate electric power until the power generation operations were discontinued and closed in 2011. The Unit 3 electric power plant is currently vacant, secured, and has restricted access.

3.2 Geologic and Hydrogeologic Conditions

Subsurface areas of the **Site** have been significantly influenced by the extensive placement of fill. Much of the **Site** was formerly submerged beneath the Bay. The western part of the **Site** was filled primarily between 1870 and 1880 (Geomatrix, 2000) with some additional fill added to the eastern boundary in the 1950s to bring the **Site** near its current grade and extent. The source of the fill imported to the **Site** prior to the 1950s is not known; however, information obtained from previous subsurface investigations indicates that the fill material is highly variable both laterally and vertically, consisting of locally derived crushed serpentinite bedrock (a source of naturally occurring asbestos [NOA]), building debris, clays, sands and possibly waste material from former industrial operations at the **Site** (Geomatrix, 2000). As part of the remediation at the Northeast Area in 2017 and 2018, some impacted fill was removed, in-situ soil solidification (ISS) was implemented, and clean fill was imported and placed to restore the elevation of the original ground surface.

In general, the fill overlies Bay Mud and lean clay with some fine sand, except in the western part of the **Site** where it overlies serpentinite bedrock. The depth to Bay Mud where present ranges from approximately 10 to 52 feet below ground surface (bgs). The thickness of the Bay Mud

ranges from absent in the western part of the **Site** to greater than 40 feet in some areas along the shoreline.

A heterogeneous layer composed of clay, silt, sand and gravel was encountered at many locations directly above the bedrock contact, beneath the Bay Mud (or the fill where the Bay Mud unit is absent). This layer ranges from 1 foot to approximately 10 feet in thickness. These materials likely are the result of natural weathering of the bedrock, as evidenced by similarity to serpentinite mineral composition and color, and/or to older sediments (Haley & Aldrich, 2016).

Shallow groundwater beneath the **Site** is present in the fill material above the Bay Mud. Groundwater flow is primarily to the east-southeast, with the observed depth to groundwater ranging from approximately 6 to 20 feet bgs. Based on its low permeability, Bay Mud acts as a lower boundary (confining layer) to the vertical flow of groundwater; the fill material permeability is much greater than the Bay Mud (Haley & Aldrich, 2016). The groundwater generally flows from the west to the east, toward San Francisco Bay. Groundwater quality is generally considered poor due to interaction with potentially contaminated fill material, historical and current heavy industrial activity in the **Site** vicinity, and salt-water intrusion from San Francisco Bay. There is no current or reasonably anticipated beneficial use of groundwater at the **Site** as a source of drinking water. In accordance with the Water Quality Control Plan for the San Francisco Bay Basin, the **Site** is within Groundwater Basin 2-40, Downtown San Francisco, which has been proposed for de-designation as a potential source of drinking water by the Water Board due to generally poor quality and other factors (Water Board, 1996).

3.3 Environmental Investigations by PG&E

Numerous environmental investigations and human health risk assessments (HHRAs) were conducted by PG&E at the Site. Soil, groundwater, and soil vapor samples were collected as part of these investigations to evaluate for the presence of constituents of potential concern (COPCs). Reports documenting the results of these investigations were submitted to the Water Board and are available for review at the Water Board's office (Region 2) and the GeoTracker website (http://geotracker.waterboards.ca.gov).

The results of the investigations and HHRAs were used by PG&E as a basis to identify risk-driving COPCs in soil, soil vapor, and groundwater[2,3,4,5] The results indicated that, based on existing industrial Site land use and Site conditions, potential exposures to COPCs in soil and groundwater do not present an unacceptable human health risk for a current commercial/industrial worker, including occasional visitors, due to the presence of the existing asphalt pavement. If soil intrusive work (e.g., excavation) were to occur, or the existing pavement (e.g., existing buildings and

[2] AMEC, 2011. Human Health Risk Assessment, Station A, Potrero Power Plant Site, San Francisco, California, October

[3] Haley & Aldrich, 2017. Former Unit 3 Power Generation Facility, Investigation Report and Human Health Risk Assessment, Potrero Power Plant Site, San Francisco, California, June.

[4] Haley and Aldrich. 2019. Human Health Risk Assessment, Tank Farm Area, Potrero Power Plant Site, San Francisco California. May

[5] Terra Pacific. 2020. Post-Remediation Performance Monitoring and Conditions Report for the Northeast Area

hardscape such as concrete/asphalt) were removed, PG&E concluded that risk reduction and/or risk management measures should be implemented to mitigate potential health risks associated with exposures to COPCs in soil to a future worker. For COPCs in soil vapor, PG&E recommended risk reduction and/or risk management measures to protect future workers from vapor intrusion for the Tank Farm and Northeast Area. The risk reduction and/or risk management measures were presented as institutional and engineering controls and are documented in the Sitewide RMP.[6] The Sitewide RMP replaces the Station A RMP and applies to the planned **PPS** development area, with the exception of the Port-owned shoreline property. Risk management protocol for the Port-owned shoreline property are presented in the offshore Risk Management and Monitoring Plan (**RMMP**) which is being prepared by PG&E for the remediation of the Offshore Area (**Figure 3**). Figures showing historical sampling locations and tables summarizing analytical results are included in Appendix D of the Sitewide RMP.

3.4 Residential Use Health Risk Evaluation

3.4.1 Exposure Assessment

As documented in the various PG&E documents, chemical constituents detected in soil are VOCs (e.g., benzene, toluene, ethylbenzene and total xylenes [BTEX]), PAHs (including naphthalene and benzo(a)pyrene), TPH, pesticides, phenols, metals (including arsenic, lead, nickel and total chromium), and chemical constituents detected in groundwater include PAHs, diesel-range TPH, select metals, and cyanide. In soil vapor, BTEX, naphthalene, chloroform and tetrachloroethene, among other VOCs, were detected in at least one sample. Results of the HHRAs prepared for Station A, Unit 3, the Tank Farm, and Northeast Areas indicate that, chemicals in soil do not present an unacceptable human health risk for commercial/industrial workers, construction workers, or maintenance workers, as long as engineering controls in the Sitewide RMP are implemented as the remedy.

The remedy approved by the Water Board includes compliance with LUCs and implementation of the Sitewide RMP for the Site. Further, the HHRAs indicate that if future land use changes from industrial/commercial to residential and/or other sensitive land uses, the potential health risks posed by chemicals in site soil and soil vapor should be re-evaluated.

Elements of the Sitewide RMP include institutional and engineering controls. Accordingly, engineering controls include the installation and maintenance of durable covers, such as, but not limited to, asphalt/concrete pavement, hardscape material, buildings, and/or clean import fill. Each of the engineering controls effectively eliminate the exposure pathways associated with direct contact to chemicals in underlying soil. In other words, incidental ingestion and dermal contact with COPCs from soil are incomplete as these engineering controls would create a physical barrier eliminating the exposure. Given planned future uses, these engineering controls will be designed and implemented as part of redevelopment, and therefore, the only potentially complete exposure pathway is the migration of volatile chemicals through the subsurface, through the foundations and into indoor air of underground garages, and into indoor air of first floor units or from the

[6] Geosyntec, 2020. Sitewide Risk Management Plan, Potrero Power Station, San Francisco, California. June.

subsurface into at grade structures. As such, the supplemental risk evaluation focuses on the vapor intrusion pathway to future residential users in the Station A, Unit 3, Tank Farm, and Northeast Areas.

3.4.2 Vapor Intrusion Risk Characterization

To support the request for approval of residential and day care uses, Geosyntec conducted a Vapor Intrusion Health Risk Assessment (VIHRA). The results of the VIHRA are presented in a Technical Report, included herein as **Appendix A**.

The VIHRA was prepared to evaluate potential adverse health effects as a result of possible exposure to chemicals in soil vapor considering future proposed residential (including day care) uses in portions of the Station A Area, Unit 3, Tank Farm, and Northeast Area of the PPS development area. Potential noncarcinogenic hazard indices and theoretical excess lifetime cancer risks were estimated quantitatively for a future resident in residential units constructed over an underground ventilated parking garage based on soil vapor data collected from within and adjacent to the Station A subarea, the Tank Farm, and the Northeast Area. Soil vapor data collected from within and adjacent to the Unit 3 subarea were evaluated assuming a slab-on-grade high-density residence. For the VIHRA, a target hazard index of 1.0 and potential cancer risk threshold of 1×10^{-6} were used as benchmarks for risk decision making purposes.

Where multi-level high-density residents are contemplated within Station A, Tank Farm, and the Northeast Areas, the buildings will be constructed overlying an underground parking garage. The floor of the parking garage will be approximately 11 feet below grade encompassing the entire footprint of the multi-level residential building. The parking garage will be designed so that occupation by human attendants will not be required and will be mechanically ventilated to meet fresh air requirements for below grade parking garages, as required by the California Mechanical Code (CMC). Within the subarea of Unit 3, current development plans call for at-grade construction of a hotel, with public access at the ground commercial floor and hotel guest units on higher floors, and/or a high-density residential building with future residents potentially at-grade.

Given the future use of the subareas, the primary receptor is a future resident living in a unit above a parking garage and a future at-grade hotel guest/resident for the Unit 3 subarea. For the COPCs in soil vapor, the principal complete pathway for a future resident is inhalation of COPCs in indoor air potentially migrating from the subsurface, through the garage, and into the indoor air of living spaces or directly into indoor air of at-grade units.

For buildings with sub-grade garages in Station A, Tank Farm, and the Northeast Areas, the VIHRA evaluated three scenarios considering three sets of attenuation factors (AFs) as part of a multiple lines of evidence approach to estimate concentrations of COPCs in indoor air from subsurface soil vapor:

Scenario 1 - USEPA's generic AF of 0.03. The AF of 0.03 is the current recommendation from DTSC and the Water Board for preliminary screening purposes; however, the use of this AF is overly conservative because the proposed new building construction over one level of unoccupied underground parking provides a higher level of protection due to the construction of a new

foundation slab build to code and sub-grade garage ventilation requirements that are not present in existing slab-on-grade building conditions.

Scenario 2 - AF of 0.0075. The generic AF of 0.03 was adjusted by a factor of 4 to account for higher air exchange rates (ACH) within the underground parking garage to meet CMC requirements for ventilation air (CMC, 2016).

Scenario 3 - AF of 0.001 for petroleum-based COPCs. The generic AF of 0.03 is not appropriate for petroleum-based compounds, as stated by USEPA (EPA, 2013). For petroleum-based compounds (e.g., benzene, naphthalene), which have a propensity to biodegrade in the vadose zone through the actions of microorganisms found naturally in soil (EPA, 2015), especially in oxygen-rich environments, vapors attenuate to much lower concentrations in soil vapor compared to chlorinated hydrocarbons. As stated by EPA, screening for petroleum hydrocarbons using the same methodology as chlorinated hydrocarbons is overly conservative (EPA, 2013). For petroleum-based compounds, the default Department of Toxic Substances Control (DTSC) AF of 0.001 for a future residential building (DTSC, 2011) was used; for non-petroleum COPCs, the adjusted AF of 0.0075 (Scenario 2) was used.

For the Unit 3 Area, the AFs from Scenarios 1 and 3 were used to estimate the theoretical health risk and noncancer hazard for a slab on grade building with ground floor hotel or residential units.

3.4.3 Vapor Intrusion Risk Assessment Summary

Based on the results from soil vapor samples and the analysis discussed in the VIHRA presented in **Appendix A** for the future development, the proposed construction of a multi-level building over an underground parking garage would provide an adequate level of risk protection for future residential users in the Station A Area. However, given the proximity of residual source areas within the Tank Farm and Northeast Areas to the northern boundary and northeast corner of Station A (Development Block 8), the collection and analysis of contemporaneous samples in Block 8 would help support this risk assessment conclusion. For the slab-on-grade building in the Unit 3 Area, some form of risk management or remediation may be appropriate to address residual volatile chemicals reported within Development Block 9. Even with a sub-terranean garage in the Tank Farm and Northeast areas, some form of risk management or remediation may be appropriate to address elevated levels of benzene and naphthalene reported in soil vapor. In summary, development and use of the Site for residential purposes in accordance with the engineering controls specified in the Sitewide RMP would be protective of human health, conditioned on the implementation of management or mitigation measures to address benzene and naphthalene in soil vapor within and adjacent to the Tank Farm and Northeast Areas and chloroform/PCE within Unit 3 and in the Northeast Area.

Because residential use exposure and risk criteria are considered protective of day care uses, the conclusions for the residential uses also apply to future planned day care uses. With respect to outdoor playground uses, the placement of 4 feet of clean fill directly beneath the playground area, as required in the Sitewide RMP, will provide adequate protection from direct exposures (incidental ingestion and dermal contact) with COPCs in soil to users of the playground facilities. Because there will be no enclosed structures in the playground area, the exposure pathway associated with vapor intrusion on a playground area is incomplete.

3.4.4 Other Lines of Evidence

In addition to the VIHRA conclusions, other lines of evidence support condition that residential, day care, and playground uses will be safe. These lines of evidence include the following:

- **Limited Vadose Zone**: As a result of the excavation of a significant amount of soil to construct the sub-grade parking garages, the resulting vadose zone (fill soil in the zone above the first-encountered groundwater level) will be thin to non-existent. At development Blocks 1, 2, 5, 7, and 11, the excavation will extend into bedrock such that there will be no fill vadose zone beneath the building. At Blocks 3, 4, 8, and 12, the excavation will extend to the point very near or below groundwater. Based on the range of reported groundwater levels at the Site in the various PG&E reports, the fill beneath the garage excavation is likely saturated with groundwater or is within the capillary fringe. In either case, the effective vadose zone through which VOC vapors can travel will be very limited.

- **VOC Source Data**: As documented in the VI health risk assessment, soil vapor data was collected in 2009, 2010 and 2015, with few data points collected in 2019. The maximum concentration of the soil vapor data points was used to conduct the exposure and risk evaluation. The use of data that in some cases are more than 10 years old is conservative as VOC concentrations in soil vapor have likely attenuated due to biodegradation, diffusion and dispersion. In addition, soil excavation to construct the garages will remove a significant mass of VOCs, thus reducing the source of VOCs for vapor intrusion. These conditions will likely result in lower VOC concentrations than what was used for the VIHRA.

4. CONCLUSION AND RECOMMENDATION

Based on the results of the VIHRA, Geosyntec concludes that residential use, child day care use, and open-air playground use can be conducted safely within Development Blocks 1, 2, 3, 4, 5, 7, 8, 9, 11, 12, and Power Station Park with the condition that buildings are constructed with sub-grade ventilated garages and/or with the implementation of engineering controls, as specified in the LUC and Sitewide RMP. A summary of the potential risks and the proposed mitigation measures to allow for the safe use of the property as residential is presented on **Table 1**.

Comments from the Water Board on the VIHRA and response to the comments are presented in **Appendix B**. The Water Board has accepted the responses and Geosyntec requests that the Water Board issue a letter of approval that residential, child day care, and playground uses are allowed at the Site, subject to the conditions under which the VIHRA was conducted and as specified in the LUCs and Sitewide RMP. As approved by the Water Board, the summary of residential use risks and the proposed mitigation (**Table 1**) has been incorporated into the Sitewide RMP.

TABLE

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Table 1

List of Approved Land Uses and Risk Management Conditions

Development Block/Approved Use/Geotracker Link	Operational Area	Commercial/Industrial Remedy	Residential Risks	Residential Remedy Required
1 Multi-family Residential (Geotracker Link)	Switchyard/GC Yard (Eastern half) *Geotracker ID T10000004527*; Tank Farm Area (Western half) *Geotracker ID T10000004529*	Switchyard/GC Yard: • Land Use restrictions • Durable Cover • Groundwater use restrictions • Compliance with PG&E LUC and future CBC LUC, RMP, and O&M Plan Tank Farm Area (Western most portion of Tank Farm and eastern half of Block 1): • Land Use restrictions • Durable Cover • Groundwater use restrictions • Excavation restrictions pertaining to contaminated soil in Tank Farm Area • Soil vapor restrictions and vapor intrusion mitigation measures required for commercial use in Tank Farm Area • Compliance with PG&E LUC and future CBC LUC, RMP, and O&M Plan	Switchyard/GC Yard: Soil vapor data are required to assess the potential for vapor intrusion; however, the results are likely to be similar to the findings for Station A. Tank Farm: Based on the adjusted AF of 0.0075 and an AF of 0.001 for petroleum-based COPCs (Scenario 3), the estimated cancer and non-cancer risks are $3x10^{-4}$ and 9.6, respectively which exceed the acceptable risk management range and will require remediation or risk management measures to address vapor intrusion mitigation to provide an acceptable level of protectiveness.	Same as Commercial/industrial remedy provided the residential building incorporates a sub-terranean garage ventilated to Code, removal of contaminated vadose zone soil that is encountered during excavation of the sub-terranean garage, and an O&M program with periodic verification vapor monitoring.
2 Commercial (Laboratory) (Geotracker Link)	Tank Farm Area (Former MGP Area) *Geotracker ID T10000004529*	• Land Use restrictions • Durable Cover • Groundwater use restrictions • Excavation restrictions pertaining to contaminated soil • Soil vapor restrictions and vapor intrusion mitigation measures required for commercial use. • Compliance with PG&E LUC and future CBC LUC, RMP, and O&M Plan	Residential Use is not included in the approved development plan. If residential risk is planned in the future, estimated cancer and non-cancer risks are $3x10^{-4}$ and 9.6, respectively (Scenario 3) which exceed the acceptable risk management range and will require remediation or risk management measures to address vapor intrusion mitigation to provide an acceptable level of protectiveness.	Same as Commercial/industrial remedy provided the residential building incorporates a sub-terranean garage ventilated to Code, removal of contaminated vadose zone soil that is encountered during excavation of the sub-terranean garage, and an O&M program with periodic verification vapor monitoring.
3 Commercial (Laboratory) (Geotracker Link)	Tank Farm Area (Former MGP Area) *Geotracker ID T10000004529*	• Land Use restrictions • Durable Cover • Groundwater use restrictions • Excavation restrictions pertaining to contaminated soil • Soil vapor restrictions and vapor intrusion mitigation measures required for commercial use.	Residential Use is not included in the approved development plan. If residential risk is planned in the future, estimated cancer and non-cancer risks are $3x10^{-4}$ and 9.6, respectively (Scenario 3) which exceed the acceptable risk management range and will require remediation or risk management measures to address vapor intrusion mitigation to provide an acceptable level of protectiveness.	Same as Commercial/industrial remedy provided the residential building incorporates a sub-terranean garage ventilated to Code, removal of contaminated vadose zone soil that is encountered during excavation of the sub-terranean garage, and an O&M

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Development Block/Approved Use/Geotracker Link	Operational Area	Commercial/Industrial Remedy	Residential Risks	Residential Remedy Required
		• Compliance with PG&E LUC and future CBC LUC, RMP, and O&M Plan		program with periodic verification vapor monitoring.
4 Multi-family Residential (Geotracker Link)	Northeast Area (former MGP Area) *Geotracker ID T10000004520*	• Land Use restrictions • Durable Cover • Groundwater use restrictions • Excavation restrictions for portion in MGP Area • Soil Vapor restrictions and vapor intrusion mitigation measures required for commercial use for portion in MGP Area • Compliance with PG&E LUC and future CBC LUC, RMP, Offshore RMMP, and O&M Plan	Based on the adjusted AF of 0.0075 and an AF of 0.001 for petroleum-based COPCs (Scenario 3), the estimated cancer risk is 6×10^{-4} and a non-cancer hazard index of 16 which exceed the acceptable risk management range and will require remediation or risk management measures to address vapor intrusion mitigation to provide an acceptable level of protectiveness.	Same as Commercial/industrial remedy provided the residential building incorporates a sub-terranean garage ventilated to Code, removal of contaminated vadose zone soil that is encountered during excavation of the sub-terranean garage, and an O&M program with periodic verification vapor monitoring.
5 Multi-family Residential (Geotracker Link)	Station A *Geotracker ID T10000004524*	• Land Use restrictions • Durable Cover • Groundwater use restrictions • Compliance with PG&E LUC and future CBC LUC, RMP, and O&M Plan	Based on the adjusted AF of 0.0075 and an AF of 0.001 for petroleum-based COPCs (Scenario 3), the estimated cancer and non-cancer risks are 1×10^{-6} and 0.07, respectively, which are at or below the *de minimis* risk level.	Same as Commercial/industrial remedy provided the residential building incorporates a sub-terranean garage ventilated to Code and removal of contaminated vadose zone soil that is encountered during excavation of the sub-terranean garage.
7 Multi-family Residential (Geotracker Link)	Station A *Geotracker ID T10000004524*	• Land Use restrictions • Durable Cover • Groundwater use restrictions • Compliance with PG&E LUC and future CBC LUC, RMP, and O&M Plan	The estimated cancer and non-cancer risks are 1×10^{-6} and 0.07, respectively (Scenario 3), which are at or below the *de minimis* risk level.	Same as Commercial/industrial remedy provided the residential building incorporates a sub-terranean garage ventilated to Code and removal of contaminated vadose zone soil that is encountered during excavation of the sub-terranean garage.
8 Multi-family Residential (Geotracker Link)	Station A *Geotracker ID T10000004524*	• Land Use restrictions • Durable Cover • Groundwater use restrictions • Compliance with PG&E LUC and future CBC LUC, RMP, and O&M Plan	The estimated cancer and non-cancer risks are 1×10^{-6} and 0.07, respectively (Scenario 3), which are at or below the *de minimis* risk level. However, given the proximity of residual source areas within the Tank Farm and Northeast Areas to the northern boundary and northeast corner of Development Block 8, the collection and analysis of contemporaneous samples in Block 8 would help support this risk assessment conclusion.	Same as Commercial/industrial remedy provided the residential building incorporates a sub-terranean garage ventilated to Code and removal of contaminated vadose zone soil that is encountered during excavation of the sub-terranean garage.
9 Hotel/ Multi-family Residential (Geotracker Link)	Northeast Area (southern half) *Geotracker ID T10000004520*; Power Unit 3 Area (northern half) *Geotracker ID T10000004528*	Northeast Area: • Land Use restrictions • Durable Cover • Groundwater use restrictions • Excavation restrictions for portion in MGP Area • Soil Vapor restrictions and vapor intrusion mitigation measures required for commercial use for portion in MGP Area • Compliance with PG&E LUC and future CBC LUC, RMP, Offshore RMMP, and O&M Plan	Northeast Area: the estimated cumulative cancer risk for a building with at-grade residential units (no sub-terranean garage) is estimated to be 6×10^{-4} and a non-cancer hazard index greater than 1 (Scenario 3). Unit 3 Area: for a future slab on grade structure, the estimated cumulative cancer risks are 2×10^{-5}, which is within the acceptable risk range, and non-cancer hazard index is less than 1 (Scenario 3).	Same as commercial/industrial remedy (Vapor intrusion mitigation beneath the entire block) with vapor intrusion verification sampling plan to be developed prior to occupancy.

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Development Block/Approved Use/Geotracker Link	Operational Area	Commercial/Industrial Remedy	Residential Risks	Residential Remedy Required
		Power Unit 3 Area: • Land Use restrictions • Durable Cover • Groundwater use restrictions • Compliance with PG&E LUC and future CBC LUC, RMP, and O&M Plan	Some form of risk management and/or remediation is needed to address residual volatile chemicals reported on and adjacent to the Northeast Area north of the Unit 3 boundary.	
11 Commercial (Office or Laboratory) (Geotracker Link)	Station A *Geotracker ID T10000004524*	• Land Use restrictions • Durable Cover • Groundwater use restrictions • Compliance with PG&E LUC and future CBC LUC, RMP, and O&M Plan	Residential Use is not included in the approved development plan. If residential risk is planned in the future, the estimated cancer and non-cancer risks are $1x10^{-6}$ and 0.07, respectively (Scenario 3), which are at or below the *de minimis* risk level.	Same as Commercial/industrial remedy provided the residential building incorporates a sub-terranean garage ventilated to Code and removal of contaminated vadose zone soil that is encountered during excavation of the sub-terranean garage.
12 Commercial (Office or Laboratory) (Geotracker Link)	Station A *Geotracker ID T10000004524*	• Land Use restrictions • Durable Cover • Groundwater use restrictions • Compliance with PG&E LUC and future CBC LUC, RMP, and O&M Plan	Residential Use is not included in the approved development plan. If residential risk is planned in the future, the estimated cancer and non-cancer risks are $1x10^{-6}$ and 0.07, respectively (Scenario 3), which are at or below the *de minimis* risk level.	Same as Commercial/industrial remedy provided the residential building incorporates a sub-terranean garage ventilated to Code and removal of contaminated vadose zone soil that is encountered during excavation of the sub-terranean garage.
13 Multi-family Residential (Geotracker Link)	Switchyard/GC Yard *Geotracker ID T10000004527*	• Land Use restrictions • Durable Cover • Groundwater use restrictions • Compliance with PG&E LUC, RMP, and O&M Plan	Soil vapor data are required to assess the potential for vapor intrusion. Soil vapor data should be collected and evaluated following completion of horizontal development and prior to initiating vertical development.	To be developed following soil vapor sampling and risk evaluation.
14 Multi-family Residential (Geotracker Link)	GC Yard *Geotracker ID T10000004527*	• Land Use restrictions • Durable Cover • Groundwater use restrictions • Compliance with PG&E LUC, RMP, and O&M Plan	Soil vapor data are required to assess the potential for vapor intrusion. Soil vapor data should be collected and evaluated following completion of horizontal development and prior to initiating vertical development.	To be developed following soil vapor sampling and risk evaluation.
15 Commercial (Office or Laboratory) (Geotracker Link)	Station A *Geotracker ID T10000004524*	• Land Use restrictions • Durable Cover • Groundwater use restrictions • Compliance with future CBC LUC, RMP, and O&M Plan	Residential Use is not proposed and based on the nature of the building construction residential use is not likely in the future.	To be developed following risk evaluation if the building is ever planned for future residential use.
Waterfront Open Spaces (Port) (Geotracker Link) Waterfront Open Spaces (CBC) (Geotracker Link)	Northeast Area/Power Unit 3/Offshore Area *Geotracker ID T10000004520* *Geotracker ID T10000004528*	• Durable Cover • Groundwater use restrictions • Compliance with future CBC LUC, RMP, RMMP, and O&M Plan	Residential not planned	Not Applicable

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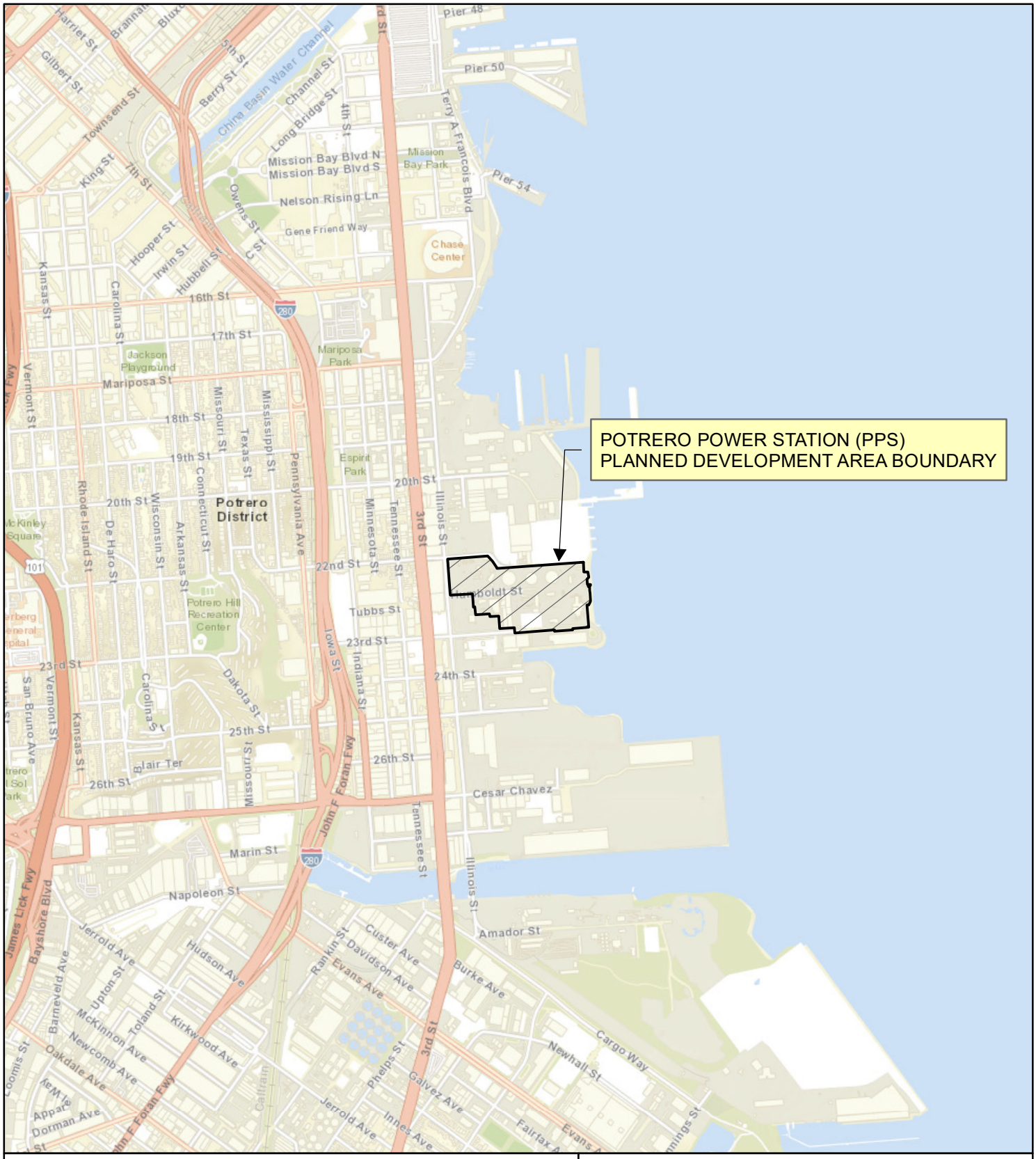
Development Block/Approved Use/Geotracker Link	Operational Area	Commercial/Industrial Remedy	Residential Risks	Residential Remedy Required
Power Station Park/Louisiana Paseo (Geotracker Link)	Station A *Geotracker ID T10000004524*	• Durable Cover • Groundwater use restrictions • Compliance with future CBC LUC, RMP, and O&M Plan	Residential not planned	Not Applicable
Illinois Plaza (Geotracker Link)	Switchyard North/GC Yard *Geotracker ID T10000004527*	• Durable Cover • Groundwater use restrictions • Compliance with future CBC LUC, RMP, and O&M Plan	Residential not planned	Not Applicable
Public Streets (Geotracker Link)	All operational Areas	• Durable Cover • Clean utility corridors • Groundwater use restrictions • Compliance with future CBC LUC, RMP, and O&M Plan	Residential not planned	Not Applicable
Private Streets (Geotracker Link)	All Operational Areas	• Durable Cover • Clean utility corridors • Groundwater use restrictions • Compliance with future CBC LUC, RMP, and O&M Plan	Residential not planned	Not Applicable

FIGURES



N

0 2,000 Feet

Site Location Map

Vapor Intrusion Health Risk Assessment
Potrero Power Station
San Francisco, California

Geosyntec consultants

WR2273 | April 2020

Figure 1

D:\GIS\California Barrel Company LLC\Project\2019_12\Fig01_SiteLocationMap.mxd 3/11/2020 7:13:59 PM

Legend

- Planned Development Area Boundary
- Former Operational Subareas

N

0 160 Feet

PPS Site Layout
Vapor Intrusion Health Risk Assessment
Potrero Power Station
San Francisco, California

Geosyntec consultants

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Figure 2

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Legend

- Residential
- Office or Laboratory
- Laboratory
- Hotel
- Hotel and/or Residential
- Potential District Parking Garage and Publicly Accessible Rooftop Soccer Field Location
- Open Space
- Proposed Development Boundary

N

0 220 Feet

Proposed Development and Land Uses

Vapor Intrusion Health Risk Assessment
Potrero Power Station
San Francisco, California

Geosyntec consultants

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Figure 3

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APPENDIX A

Vapor Intrusion Health Risk Assessment

Geosyntec consultants

engineers | scientists | innovators

APPENDIX A

VAPOR INTRUSION HEALTH RISK ASSESSMENT
FUTURE RESIDENTIAL USE

POTRERO POWER STATION
SAN FRANCISCO, CALIFORNIA

Prepared for

California Barrel Company, LLC
1201 A Illinois Street
San Francisco, California 94107

Prepared by

Geosyntec Consultants, Inc.
1111 Broadway, 6th Floor
Oakland, California 94607

Project Number: WR2273

August 14, 2020

Appendix A

Vapor Intrusion Health Risk Assessment Future Residential Use

Potrero Power Station
San Francisco, California

Prepared for

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1201 A Illinois Street
San Francisco, California 94107

Prepared by

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Project Number: WR2273

August 14, 2020

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Table 1C: Theoretical Excess Lifetime Cancer Risk and Noncancer Hazard – Residential Evaluation, Station A, Adjusted Attenuation Factor 0.0075 and DTSC Recommended Future Residential Attenuation Factor 0.001 for Petroleum COPCs

Table 2A: Theoretical Excess Lifetime Cancer Risk and Noncancer Hazard – Residential Evaluation, Unit 3, USEPA Generic Attenuation Factor 0.03

Table 2B: Theoretical Excess Lifetime Cancer Risk and Noncancer Hazard – Residential Evaluation, Unit 3, USEPA Generic Attenuation Factor 0.03 and DTSC Recommended Future Residential Attenuation Factor 0.001 for Petroleum COPCs

Table 3A: Theoretical Excess Lifetime Cancer Risk and Noncancer Hazard – Residential Evaluation, Tank Farm, USEPA Generic Attenuation Factor 0.03

Table 3B: Theoretical Excess Lifetime Cancer Risk and Noncancer Hazard – Residential Evaluation, Tank Farm, Adjusted Attenuation Factor Accounting for Higher Air Exchange Rate of Underground Garage 0.0075

Table 3C: Theoretical Excess Lifetime Cancer Risk and Noncancer Hazard – Residential Evaluation, Tank Farm, Adjusted Attenuation Factor 0.0075 and DTSC Recommended Future Residential Attenuation Factor 0.001 for Petroleum COPCs

Table 4A: Theoretical Excess Lifetime Cancer Risk and Noncancer Hazard – Residential Evaluation, Northeast Area, USEPA Generic Attenuation Factor 0.03

Table 4B: Theoretical Excess Lifetime Cancer Risk and Noncancer Hazard – Residential Evaluation, Northeast Area, Adjusted Attenuation Factor Accounting for Higher Air Exchange Rate of Underground Garage 0.0075

Table 4C: Theoretical Excess Lifetime Cancer Risk and Noncancer Hazard – Residential Evaluation, Northeast Area, Adjusted Attenuation Factor 0.0075 and DTSC Recommended Future Residential Attenuation Factor 0.001 for Petroleum COPCs

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ACRONYMS AND ABBREVIATIONS

$\mu g/m^3$	micrograms per cubic meter
ACH	air exchange rates
AF	attenuation factor
Cal-EPA	California Environmental Protection Agency
cfm/sf	cubic feet per minute per square feet
CMC	California Mechanical Code
DTSC	Department of Toxic Substances Control
EPA	United States Environmental Protection Agency
EPCs	exposure point concentrations
ESLs	environmental screening levels
$Garage_{conc}$	the concentrations of VOCs from soil vapor in the underground parking garage
Geosyntec	Geosyntec Consultants, Inc.
HI	hazard index
HQ	hazard quotient
ITRC	Interstate Technology and Regulatory Council
m^3	cubic meters
m^3/hour	cubic meters per hour
Q_{GAE}	Garage air entry rate into occupied unit
RMP	Risk Management Plan
Site	a proposed mixed-use commercial/residential building (Building E2) that will be constructed on a portion of the Pier 70 Special Use District (SUD) redevelopment
SUD	Special Use District
SV	maximum soil vapor concentration
SWRCB	State Water Resources Control Board
TPHg	total petroleum hydrocarbons as gasoline
VIHRA	vapor intrusion health risk assessment
VOCs	volatile organic chemicals
Water Board	California Regional Water Quality Control Board, San Francisco Region

1. INTRODUCTION

Geosyntec Consultants, Inc. (Geosyntec) has prepared this vapor intrusion health risk assessment (VIHRA) in support of a residential land use variance and Sitewide Risk Management Plan (Sitewide RMP) modification request for four of the seven subareas of the Potrero Power Station (PPS) site (the PPS Site), formerly owned by Pacific Gas and Electric Company (PG&E) and located at 1201A Illinois Street (also known as 420 23rd Street), San Francisco, California (the Site; **Figure 1**).

For purposes of environmental investigation and remediation, the former Potrero Power Plant was delineated into seven subareas by PG&E and the California Regional Water Quality Control Board – San Francisco Bay Region (Water Board). This Residential Use Human Health Risk Assessment is focused on residential redevelopment uses that are planned for four of these areas identified as portions of the Station A Area, Unit 3 Area, Tank Farm Area, and the Northeast Area (**Figure 2**).

The objective of the VIHRA is to provide an analysis of potential adverse health effects from exposure to chemicals detected in soil vapor considering future redevelopment of the PPS Site into a mixed-use development consisting of residential, commercial (including office, research and development/life science, retail, hotel, and production, distribution, and repair), parking, community facilities, and open space land uses. For portions of three subareas (Station A, Tank Farm Area, and Northeast Area), there are plans to construct high-density multi-level residential housing over one floor of underground parking. Within the Unit 3 Area and a portion of the Northeast Area, current development plans call for at-grade construction of a hotel, with public access at the ground floor, and/or a high-density residential building.

The intent of the VIHRA is to provide the land owner, future developers, planners, risk managers, the San Francisco Department of Public Health (SFDPH), and the Water Board a basis for evaluating whether action to mitigate potential health risks from vapor intrusion is warranted to support redevelopment, including residential land uses. The results of the VIHRA will be used to identify the chemicals detected at the Site that may require further evaluation, risk management, mitigation, and/or remediation measures to limit potential exposures under future residential and hotel uses.

The technical approaches for exposure and toxicity employed in this VIHRA are based on current scientific data and are consistent with regulatory guidelines. The assumptions used are conservative and based on regulatory agency recommendations and published guidance. As a result, risk calculations presented herein likely overestimate actual risks associated with the Site.

This VIHRA is a component of the Project Specific Request, as required in the Station A RMP protocol for requesting approval of a change in land use, that is being submitted for Water Board review and approval.

2. BACKGROUND

The PPS Site, as shown on **Figure 1**, is located in a waterfront commercial/industrial area of San Francisco, south of the central business district on the western shore of the San Francisco Bay (Bay). The PPS Site is bounded to the west by Illinois Street; the south by 23rd Street and industrial properties; the east by the San Francisco Bay (Bay); and the north by the Pier 70 Property.

The PPS Site layout is depicted on **Figure 2**. The approximately 11.9-acre Station A subarea is located in the south-central portion of the PPS Site and is bounded to the west by PG&E's Switchyard, to the north by the former Humboldt Street, to the east by the main power generating unit (i.e., Unit 3), and to the south by 23rd Street. The Unit 3 subarea is approximately 1.3 acres in the southeastern portion of the Site. The Tank Farm Area and the Northeast Area each comprise approximately 4.8 and 3.0 acres, respectively. The Tank Farm Area is in the north central portion of the PPS site, bounded to the east by the Northeast Area; the west by the Station A Area and Switchyard/GC Yard; the south by the Station A Area; and the north by the Pier 70 property. The Northeast Area is in the northeastern portion of the PPP Site, bounded by the Bay to the east, the Tank Farm Area and Station Area to the west, and the Unit 3 Area to the south. To the north of the PPP site is the Pier 70 property.

The former power plant portion of the PPS Site, consisting of four subareas (Station A, Unit 3, Tank Farm, and the Northeast Area), was sold by PG&E in 1999 and is currently owned by California Barrel Company (CBC). PG&E retained ownership of the Hoe Down Yard and the Switchyard/GC Yard. PG&E recently re-acquired a 1-acre area adjacent to the switchyard to construct a new gas-insulated substation as part of the Embarcadero to Potrero Transmission Project.

Numerous investigations have been performed on the four subject subareas, including remediation activities on the Northeast Area, where in-situ solidification (ISS) of two continuous dense non-aqueous phase liquid (DNAPL) areas and installation of durable covers were performed. Continuous DNAPL in the two distinct ISS areas was immobilized through soil mixing with augers and solidification by the addition of cementitious binders and other reagents. A durable cover has been installed and is being maintained by PG&E over all four sub-areas as a component of the remedy.

The results of the PG&E human health risk assessments (HHRA) and a post remediation HHRA for the Northeast Area indicated that risk reduction and/or risk management measures are appropriate to mitigate potential health risks to chemicals of potential concern (COPCs) in soil if the existing asphalt pavement is removed or intrusive activities occur to the subsurface. For example, engineering controls, such as durable covers, may be used to prevent and limit future exposures to COPCs in soil. Accordingly, long-term risk management including the preparation of a RMP to document appropriate implementation and management of engineering controls to protect human health are warranted.

For COPCs in soil vapor, the estimated theoretical lifetime cancer risk and noncancer hazard from vapor intrusion to a future worker based on individual soil vapor samples were below the point of departure and *de minimis* risk level of 1×10^{-6} and hazard index (HI) of 1 for both Station A and

Unit 3. However, the HHRAs only addressed potential exposures from vapor intrusion to a future commercial/industrial worker for a slab-on-grade building (and concluded such risks are *de minimis* for Station A and Unit 3); it is unknown if this conclusion is the same for a future resident. For the Tank Farm and the Northeast Area, the results of the HHRAs indicate that remediation or other forms of risk management may be required to address potential vapor intrusion concerns to a future worker. Given the results of the HHRAs, the focus of this VIHRA is an evaluation of possible risks from subsurface vapor intrusion to future residents.

In June 2015, PG&E submitted an RMP for the Station A subarea to leave soil and groundwater in place and install a durable cover to prevent and limit contact with the underlying soil (Haley and Aldrich and PIVOX Corporation, 2016). In August 2016, the Water Board recorded the Covenant and Environmental Restriction on Property (Covenant), included as Appendix A of the RMP, which restricts future uses of the Station A subarea to industrial and commercial uses and required compliance with the RMP (Water Board, 2016a). In September 2016, the Water Board approved the RMP (Water Board, 2016b). Other more sensitive land uses, such as residential, parks, or playgrounds, are permitted if the pre-agreed-on procedures specified in the RMP are completed and the Water Board provides written approval.

In September 2017, the Water Board approved the PG&E Site investigation report and HHRA for the Unit 3 subarea (Water Board, 2017). In January 2019, the Water Board approved the second amendment to the Final Remedy for the Station A subarea, which extended the mitigation boundaries of the Station A subarea to include the adjacent Unit 3 Power Generation Facility subarea given the characteristics and theoretical risk similarities between the Unit 3 and the Station A subareas (Haley and Aldrich, 2018; Water Board, 2019). As discussed above, the approved remedy for the Unit 3 subarea includes installation of a durable cover, compliance with the Station A RMP, and deed restriction. Land use restrictions that apply to the Station A subarea for commercial and industrial uses also apply to the Unit 3 subarea, including a variance request to the Water Board and Water Board approval for a change in land use.

In October 2019, the Water Board requested that PG&E submit a remedial plan containing a land use restriction and risk management plan for the Tank Farm Area (Water Board, 2019b). Accordingly, the Water Board approved the remedial investigation report and concurred with the conclusion of the HHRA that current Site conditions warrant appropriate remedial/mitigation measures to protect future onsite commercial workers and construction workers, similar to that used on the adjacent Station A Area and other areas of the PPS Site.

On March 31, 2020, PG&E submitted to the Water Board the Post-Remediation Performance Monitoring and Conditions Report for the Northeast Area (Terra Pacific, 2020). The report presents a summary of post-remediation conditions and the results of a post-remediation human health risk assessment using post-remediation data. Accordingly, PG&E concluded that long-term risk management in the form of a Risk Management Plan and institutional controls is warranted for the protection of future commercial populations in the Northeast Area. The Water Board is in the process of approving this report.

3. DESCRIPTION OF PROPOSED LAND USE

CBC is the master developer and has initiated rezoning and developed design standards and controls for a multi-phased, mixed-use development. CBC received Planning Commission approval of the project on January 30, 2020 and Board of Supervisors approval on April 21, 2020. As approved, CBC would develop market-rate and affordable residential uses, commercial mixed uses (including office and research and development uses), hotel use, community facility uses, retail and other active uses, and parking. The proposed Project would also include public access areas and open space, a rooftop soccer field and other active open space uses, shoreline improvements, a recreational boat dock, an internal grid of public streets, shared public ways, all with supporting utilities infrastructure. CBC has organized the PPS Site into 13 development blocks. The configuration of the development blocks and associated land uses are shown on **Figure 3**.

In general, development plans for portions of Station A, Tank Farm, and the Northeast Areas, include grading and soil excavation for utilities, parking features/garages, foundations and elevator pits, and construction of an at-grade multi-level residential building over one floor of underground parking on five of the development blocks (**Figure 3**). The floor of the underground parking garage will generally underlie the entire footprint of each residential building, such that there will be no slab-on-grade residential units. In Development Blocks 1, 4, 5, 7, and 8, excavation for the underground garage is expected to extend to the top of bedrock or to a point to first groundwater or below leaving no vadose zone fill/soil. For Development Block 9 (occupying a portion of the Northeast Area and Unit 3 Area), current development plans call for an adaptive reuse of the existing power plant structure with at-grade construction of a hotel, with public access at the ground commercial floor and hotel guest units on higher floors, and/or a high-density residential building with future residents potentially at-grade. For Block 15, the existing Station A Compressor Building, current development plans call for adaptive reuse of the existing structure for commercial uses. Residential uses are not contemplated for Block 15, and the conclusions in this VIHRA do not apply to that building.

4. DATA EVALUATION

To quantify the theoretical health risk and hazards from vapor intrusion for a future resident, the maximum detected concentrations of chemicals in soil vapor from probes within and adjacent to the four subareas of the property were used.

Within the Station A subarea, a total of 34 soil vapor samples from 29 probes were collected by PG&E in November 2009 and September 2010. The results of these investigations indicated that benzene, toluene, and naphthalene were the primary constituents of potential concern (COPCs) detected at the greatest frequency with the greatest concentrations located in the north-northeast area, just beyond the boundary of the Station A Area.

Within the Unit 3 subarea, a total of 14 soil vapor samples were collected by PG&E in November 2009, September 2010, and December 2015. Soil vapor samples from sample locations PSV-03 through PSV-06 within the Northeast Area also were included in the evaluation given the proximity of these locations to the northern boundary of Development Block 9. Similar to the Station A results, benzene and naphthalene in soil vapor were the primary COPCs detected at the greatest frequency.

Within the Tank Farm, a soil vapor survey was first conducted by PG&E in October and November 2009 with the installation of seven soil vapor probes (locations SV08, SV09, SV19, SV22, SV24, SV25, and SV30). Supplemental soil vapor sampling activities to confirm the results of the 2009 survey were conducted by PG&E in 2010, which included re-sampling five of the seven soil vapor probes (SV08, SV09, SV24, SV25, and SV30) in September 2010. Following the removal of above-ground tanks, a total of 26 soil vapor probes were installed at depths between 3 to 8 feet bgs. VOCs, including BTEX and naphthalene have been detected in soil vapor samples.

Within the Northeast Area, post-remediations soil vapor samples were collected by PG&E from 12 soil vapor probes at 8 locations (PSV-01 through PSV-08). Benzene and naphthalene were detected at concentrations up to 170,000 micrograms per cubic meter ($\mu g/m^3$) and 330,000 $\mu g/m^3$, respectively. Given the proximity of some of the Tank Farm soil vapor sampling locations west of the Northeast Area boundary, soil vapor samples collected from locations GB-154, GB-155B/C, and GB-156 within the Tank Farm were also considered in the evaluation of high-density residential use over underground ventilated parking for the Northeast Area, as the results from these locations are considered representative of current soil vapor conditions near Development Block 4 (Terra Pacific, 2020).

Where available, aliphatic and aromatic fractions of total petroleum hydrocarbons (TPH) also were analyzed. The maximum detected concentrations of aliphatic and aromatic fractions were used in this VIHRA.

Appendix A presents the soil vapor sampling locations within the four subareas, including summary tables of soil vapor data collected by PG&E.

5. EXPOSURE ASSESSMENT

The objectives of an exposure assessment are to identify populations that may potentially be exposed to chemicals in environmental media, the exposure pathways, and the route of potential intake. In addition, for pathways considered complete, the chemical concentrations to which the individuals are potentially exposed (exposure point concentrations [EPCs]) and the frequency, magnitude, and duration of these potential exposures (exposure parameters) need to be estimated.

As depicted on **Figure 3**, portions of Station A, Tank Farm, and the Northeast Areas will be redeveloped into multi-level high density residential structures overlying an underground parking garage. The floor of the parking garage will be approximately 11 feet below grade encompassing the entire footprint of the multi-level residential building. The parking garage will be designed so that occupation by human attendants will not be required and will be mechanically ventilated to meet fresh air requirements for below grade parking garages, as required by the California Building Codes. Within the development Block 9, current development plans call for at-grade construction of a hotel, with public access at the ground commercial floor and hotel guest units on higher floors, and/or a high-density residential building with future residents potentially at-grade.

Given the future use of the subareas, the primary receptor is a future resident living in a unit above a parking garage and a future at-grade hotel guest/resident for the Unit 3 subarea. For the COPCs in soil vapor, the principal complete pathway for a future resident is inhalation of COPCs in indoor air potentially migrating from the subsurface, through the garage, and into the indoor air of living spaces or directly into indoor air of at-grade units.

5.1 Exposure Point Concentrations

Exposure point concentrations (EPCs) to which a future resident will be exposed living above the parking garage are dependent upon the rate of entry of COPCs from soil vapor into the garage (or first floor for Unit 3) and into indoor air within the occupied living space, the volume of the occupied space, and the amount of fresh air entering the occupied space. The rate of entry is influenced by the volume of the garage air space, the air exchange rate within the garage, and the ground level floor that separates the garage and the living space of the occupied units. Similarly, the rate of entry into slab-on-grade units is influenced by the thickness of the slab, the volume of the slab-on-grade units, and the air exchange of the units. These factors tend to reduce (or attenuate) the rate of infiltration into the indoor air. The ratio of indoor air concentration to subsurface soil vapor concentration is defined as the attenuation factor (AF). The AF is used as a measure of the decrease in concentration that occurs during vapor migration as a result of Site-specific factors.

5.2 Indoor Air from Soil Vapor and Underground Garage

Indoor air EPCs from soil vapor migrating through a garage were estimated using a two-step process. The first step consisted of estimating the concentrations of COPCs in the underground parking garage and the second step incorporated transfer factors to estimate the concentrations of COPCs in indoor air of the living spaces overlying the underground garage.

5.2.1 COPC Concentrations in Garage Air

In the first step, the concentrations of COPCs in the underground garage from soil vapor are estimated using an AF. For buildings with sub-grade garages in Station A, Tank Farm, and the Northeast Areas, the VIHRA evaluated three scenarios considering three sets of attenuation factors (AFs) as part of a multiple lines of evidence approach to estimate concentrations of COPCs in indoor air from subsurface soil vapor:

Scenario 1 - USEPA's generic AF of 0.03. The AF of 0.03 is the current recommendation from DTSC and the Water Board for preliminary screening purposes for existing structures; however, the use of this AF is overly conservative because the proposed new building construction over one level of unoccupied underground parking provides protections that are not present in existing building construction. Specifically, the EPA default AF is calculated from paired sub-slab/indoor air chlorinated data from predominantly single-family residences with basements from states outside of California with relatively cold climates where the stack effect due to building heating would be expected to enhance the potential for vapor intrusion. The empirical data are thus not characteristic of the new building construction proposed, where high air exchange rates within the parking garage are operating (necessary to meet California Mechanical Code (CMC) requirements for Ventilation Air, Section 401) and garage basement floor is constructed of a thick layer of high-density concrete.

Scenario 2 - AF of 0.0075. The generic AF of 0.03 was adjusted by a factor of 4 to account for higher air exchange rates (ACH) within the underground parking garage to meet CMC requirements for ventilation air (CMC, 2016). Underground parking garages are typically designed with high ventilations and ACH to limit the buildup of automobile exhaust. They are required to use mechanical ventilation resulting in AFs that are lower than a slab-on-grade building scenario. In typical designs, parking garages maintain a negative pressure relative to the overlying building and/or exchange in fresh air to the garage space. These design elements prevent automobile exhaust from accumulating to unsafe concentrations within the garage and prevent air in the garage from flowing into the occupied spaces in the overlying building. These design features can also prevent the intrusion of soil vapor into the overlying building. The minimum number of air exchanges per hour (hr^{-1}) for the garage is 2 (Ettinger et al, 2020). In contrast, the default ACH for a residential building is 0.5 hr^{-1}. Therefore, the generic AF was adjusted by a factor of 4 (0.03 divided by 4 = 0.0075) to account for the increased ACH (from 0.5 to 2 hr^{-1}) to estimate the concentrations of COPCs from soil vapor in the underground parking garage ($Garage_{conc}$).

Scenario 3 - AF of 0.001 for petroleum-based COPCs. The generic AF of 0.03 is not appropriate for petroleum-based compounds, as stated by USEPA (EPA, 2013). The generic AF of 0.03 represents the 95th percentile from the USEPA database of primarily chlorinated compounds, which means that 95 percent of the time the use of 0.03 is conservative. The median AF in the USEPA database is 0.003. For petroleum-based compounds (e.g., benzene, naphthalene), which have a propensity to biodegrade in the vadose zone through the actions of microorganisms found naturally in soil (EPA, 2015), especially in oxygen-rich environments, vapors attenuate to much lower concentrations in soil vapor compared to chlorinated hydrocarbons. As stated by EPA, screening for petroleum hydrocarbons using the same methodology as chlorinated hydrocarbons is overly conservative (EPA, 2013). For petroleum-based compounds, the default Department of Toxic Substances Control (DTSC) AF of 0.001 for a future residential building (DTSC, 2011) was

used to estimate the concentrations in the garage. For chlorinated VOCs, the adjusted AF of 0.0075 is used for this scenario. Hence, the use of the default attenuation factor of 0.001 for a future slab-on-grade residential structure to conservatively estimate the concentrations in the air space of the garage is considered appropriate and defensible.

For the Unit 3 Area, the AFs from Scenarios 1 and 3 were used to estimate the theoretical health risk and noncancer hazard for a slab on grade building with ground floor hotel or residential units.

5.2.2 Concentrations in Indoor Air

In the second step, transfer factors between the garage and the living spaces were used to estimate EPCs in the living space. The transfer factors were based on research on indoor air flow between apartment units on adjacent floors in multifamily buildings (Center for Energy and Environment, 2004). In the study, researchers found that each building had at least one unit for which more than 10% of the air entering the unit came from another unit. The researchers also found that units on the higher floors of the buildings had a greater fraction of air from other units, or inter-unit airflow, due to the thermal stack effect. The average fraction of inter-unit flow was 2% for the units on the lowest floors, 7% for the units on the middle floors, and 19% for the units on the upper floors. The median for all units was 5%. Although the research was conducted in buildings in colder climates (Minnesota), where stack effects are likely to be more significant than in California, an inter-unit flow of 10% is used as a reasonable estimate.

In summary, the concentration of COPCs in indoor air is the product of the soil vapor concentration, the generic, adjusted, or DTSC recommended AF and an inter-unit transfer factor of 10%:

$$\text{Indoor Air EPC } (\mu g/m^3) = \text{SV } (\mu g/m^3) \times \text{AF} \times \text{IUTF}$$

Where:

$Garage_{conc}$ = COPC Concentration in garage ($\mu g/m^3$)

SV = maximum soil vapor concentration of COPCs

AF = generic, adjusted, or DTSC recommended attenuation factor

IUTF = Inter-Unit Transfer Factor (10%, CEE, 2004)

For the proposed hotel/high-density residential building in the Unit 3 Area, the generic AF of 0.03 is used for scenario 1 and a combination of 0.03 and 0.001 for petroleum-based VOCs is used for scenario 3. Scenario 2 and the adjusted AF of 0.0075 was not used for the proposed hotel because there is no planned sub-grade garage.

Residential exposure factors are based on default agency recommended values for exposure time (24 hours per day), exposure frequency (350 days per year), and exposure duration (26 years).

6. TOXICITY ASSESSMENT

In this step, toxicity criteria were selected to quantify the potential for the COPCs to cause adverse health effects, including cancer and noncancer health effects. Toxicity criteria are based on recommendation pursuant to the *Toxicity Criteria for Human Health Risk Assessments, Screening Levels, and Remediation Goals* presented in the DTSC Human Health Risk Assessment (HHRA) Note 10 (DTSC, 2019).

7. RISK CHARACTERIZATION

This last step incorporates the EPCs derived from soil vapor, the exposure factors, and the toxicity criteria to estimate theoretical excess lifetime cancer risk and noncancer hazards.

Cancer risks and noncancer HIs were calculated according to regulatory guidance. To characterize noncarcinogenic health hazards, noncancer hazard index (HI) are compared to EPA's and California Environmental Protection Agency (Cal-EPA)'s acceptable HI of 1. To characterize carcinogenic health risks, the results are compared to EPA's acceptable risk range of 1×10^{-6} to 1×10^{-4}, with Cal-EPA's 1×10^{-6} (one in one million) as the *de minimis* risk level and the point of departure for making risk management decisions. These risks are lower than the background risk of cancer in the general population, which for Americans is approximately one chance in two (0.5 or 5.0×10^{-1}) for males and one chance in three (0.33 or 3.3×10^{-1}) for females (American Cancer Society [ACS], 2017).

7.1 Station A Results

Benzene and naphthalene are the primary risk-driving COPCs in the Station A area. The estimated incremental excess lifetime cancer risk (IELCR) and noncancer HI for a future resident living above one floor of underground parking based on the maximum concentrations in soil vapor, a 10% inter-unit flow rate, and various AFs are summarized in **Tables 1A** through **1C**.

- Based on the generic AF of 0.03 (**Table 1A**), the estimated IELCR for all COPCs is 3×10^{-5} and the estimated noncancer HI is 2, respectively.
- Based on the adjusted AF of 0.0075 (**Table 1B**), the estimated IELCR and noncancer HI are 8×10^{-6} and 0.5, respectively.
- Based on the adjusted AF of 0.0075 for non-petroleum COPCs and an AF of 0.001 for petroleum-based COPCs (**Table 1C**), the estimated IELCR and noncancer HI are 1×10^{-6} and 0.07, respectively.

The estimated IELCRs for scenarios 1 and 2 are above the *de minimis* risk level but within the acceptable risk range of one-in-one million (1×10^{-6}) to one hundred in a million (1×10^{-4}). The cumulative HI for scenario 1 is above the acceptable level of 1. However, for scenarios 2 and 3, the cumulative HIs are below the acceptable HI. The IELCR for scenario 3 is at the *de minimis* cancer risk level and well below the acceptable HI.

The estimated IELCRs and noncancer HIs derived using the generic AF of 0.03 are likely overestimated because there is likely additional attenuation and mixing from subsurface depths to sub-slabs of a future underground garage and into the overlying residential units. The generic AF may not provide representative potential risks from vapor intrusion at the PPS Site because the conditions under which the generic AF was determined are much different than site specific conditions. The use of the adjusted AF for petroleum-based COPCs also is conservative given the likely degradation within the vadose zone. As such, the estimated IELCRs and noncancer HI associated with VI are likely below *de minimis* risk levels within the Station A area based on estimates presented as scenario 3.

7.2 Unit 3 Results

The estimated IELCR and noncancer HI for a future at-grade resident based on the maximum concentrations in soil vapor, a 10% inter-unit flow rate, and various AFs are summarized in **Tables 2A** and **2B**.

- Based on the generic AF of 0.03 (**Table 2A**), the estimated IELCR for all COPCs is 1×10^{-4} and the estimated noncancer HI is 5. Benzene and naphthalene are the COPCs contributing the greatest to the IELCR and HI.
- Based on the generic AF of 0.03 and an AF of 0.001 for petroleum-based COPCs (**Table 2B**), the estimated IELCR and noncancer HI are 2×10^{-5} and 0.75, respectively.

The estimated IELCRs are above the *de minimis* risk level but within the acceptable risk range of one-in-one million (1×10^{-6}) to one hundred in a million (1×10^{-4}). The cumulative HI for scenario 1 is above the acceptable HI of 1 but below for scenario 3.

The estimated IELCRs and noncancer HIs derived using the generic AF of 0.03 are likely overestimated because there is likely additional attenuation from subsurface depths to sub-slab. The generic AF may not provide representative potential risks from vapor intrusion at the PPS Site because the conditions under which the generic AF was determined are much different than site specific conditions. Under scenario 3, the estimated IELCR is above the de minimis risk level and is primarily attributed to chloroform and tetrachloroethene (PCE) from samples located within the Unit 3 Area and the in-situ solidification area of adjacent Northeast Area.

7.3 Tank Farm Results

The estimated IELCR and noncancer HI for a future resident living above one floor of underground parking based on the maximum concentrations in soil vapor, a 10% inter-unit flow rate, and various AFs are summarized in **Tables 3A** through **3C**.

- Based on the generic AF of 0.03 (**Table 3A**), the estimated IELCR for all COPCs is 9×10^{-3} and the estimated noncancer HI is 290.
- Based on the adjusted AF of 0.0075 (**Table 3B**), the estimated IELCR and noncancer HI are 2×10^{-3} and 72, respectively.
- Based on the adjusted AF of 0.0075 and an AF of 0.001 for petroleum-based COPCs (**Table 3C**), the estimated IELCR and noncancer HI are 3×10^{-4} and 9.6, respectively.

The estimated IELCRs are above the upper end of the acceptable risk level of one hundred in a million (1×10^{-4}) and the cumulative HIs are above the acceptable HI of 1. Benzene and to a lesser extent, naphthalene, are the primary risk-driving COPCs.

7.4 Northeast Area Results

The estimated IELCR and noncancer HI for a future resident living above one floor of underground parking based on the maximum concentrations reported in post-remediation soil vapor samples, a 10% inter-unit flow rate, and various AFs are summarized in **Tables 4A** through **4C**.

- Based on the generic AF of 0.03 (**Table 4A**), the estimated IELCR for all COPCs is 2×10^{-2} and the estimated noncancer HI is 480, respectively. Naphthalene and benzene are the primary COPC contributing the greatest to the IELCR.
- Based on the adjusted AF of 0.0075 (**Table 4B**), the estimated IELCR and noncancer HI are 4×10^{-3} and 120, respectively.
- Based on the adjusted AF of 0.0075 and an AF of 0.001 for petroleum-based COPCs (**Table 4C**), the estimated IELCR and noncancer HI are 6×10^{-4} and 16, respectively.

The estimated IELCR for scenarios 1, 2, and 3 are above the upper end of the acceptable risk range of one hundred in a million (1×10^{-4}). The cumulative HIs also are all above the acceptable HI of 1. Benzene and naphthalene are the primary risk-driving COPCs.

7.5 Uncertainties

The purpose of the VIHRA is a management tool for developing conservative estimates of health hazards, which are unlikely to underestimate the true risk for potentially exposed populations. As a result, the numerical estimates in a risk assessment (risk values) have associated uncertainties reflecting the limitations in available knowledge about Site concentrations, exposure assumptions, and chemical toxicity. To address these uncertainties, appropriately conservative assumptions were made.

For example, this VIHRA is based on the maximum concentrations reported in soil vapor samples. Most of the soil vapor samples were collected in areas where soil will be excavated as part of construction for the underground parking garage or as part of remedial activities for shallow soil. Furthermore, an inter-unit flow of 10% was conservatively used to estimate the concentrations in indoor air of living spaces above a garage based on tracer gas studies performed in support of an environmental tobacco smoke study in multifamily buildings. The estimated concentration in the garage using the default AF for a residential building is conservative as ventilation in the garage is expected to be much higher due to code requirements, thereby reducing concentrations. Uncertainty in the toxicity assessment arises for those chemicals which rely on animal studies as the basis for determining the appropriate toxicity value for effects on humans. Toxicity values typically assume that adverse effects observed in animal toxicity experiments would also be observed in humans. In addition, a margin of safety is added in the derivation of toxicity values used in health risk assessments which results in a conservative and likely over-estimation of potential health risks.

Because a risk assessment contains multiple sources of uncertainty, simplifying assumptions are often made so that potential health risks and hazards can be estimated quantitatively. Since the exact amount of uncertainty cannot be quantified, the risk assessment is intended to over-estimate rather than under-estimate probable cancer risk or noncancer hazard. Results of this VI HHRA, therefore, are likely to be protective of health despite the inherent uncertainties in the process.

8. SUMMARY

Geosyntec conducted a VIHRA to evaluate potential adverse health effects as a result of possible exposure to chemicals in soil vapor. Potential noncarcinogenic HIs and theoretical IELCRs were

estimated quantitatively for a future resident in residential units constructed over an underground parking garage in the Station A, Tank Farm, and Northeast Areas. For the Unit 3 area, potential noncarcinogenic HIs and theoretical IELCRs were estimated quantitatively for a future resident in residential units constructed at grade. For this assessment, a target HI and risk threshold of 1.0 and 1×10^{-6}, respectively, were used.

COPCs were selected for review if a chemical was detected in at least one soil vapor sample. Estimated EPCs for COPCs in indoor air within the subterranean garage were estimated using: i) scenario 1 - the generic AF of 0.03 combined with the maximum detected concentrations in soil vapor; ii) scenario 2 - an adjusted AF of 0.0075 to account for the higher air exchange rates required of underground garages; and iii) scenario 3 - a combination of the adjusted AF of 0.0075 and the DTSC default AF of 0.001 for petroleum-based COPCs. The estimated concentrations in indoor air were then estimated based on inter-unit transfer factors and the concentrations in the garage. A summary by area is presented below:

<u>Station A</u>

- Based on the generic AF of 0.03, the estimated IELCR for all COPCs is 3×10^{-5} and the estimated noncancer HI is 2, respectively.
- Based on the adjusted AF of 0.0075, the estimated IELCR and noncancer HI are 8×10^{-6} and 0.5, respectively.
- Based on the adjusted AF of 0.0075 and an AF of 0.001 for petroleum-based COPCs, the estimated IELCR and noncancer HI are 1×10^{-6} and 0.07, respectively.

The estimated IELCRs for scenarios 1 and 2 are above the *de minimis* risk level but within the acceptable risk range of one-in-one million (1×10^{-6}) to one hundred in a million (1×10^{-4}). The cumulative HI is above the acceptable HI of 1 for scenario 1 but below the acceptable HI of 1 for scenarios 2 and 3.

The estimated IELCRs and noncancer HIs derived using the generic AF of 0.03 (scenario 1) and the adjusted AF of 0.0075 are likely overestimated because there is likely additional attenuation and mixing from subsurface depths to sub-slabs of a future underground garage and into the overlying residential units. The generic and adjusted AFs may not provide representative theoretical risks from vapor intrusion and as such, the estimated IELCRs and noncancer HI associated with VI for scenario 3 are likely more representative of future conditions and are at and below *de minimis* risk levels.

<u>Unit 3</u>

- Based on the generic AF of 0.03, the estimated IELCR for all COPCs is 1×10^{-4} and the estimated noncancer HI is 5.
- Based on the generic AF of 0.03 and an AF of 0.001 for petroleum-based COPCs, the estimated IELCR and noncancer HI are 2×10^{-5} and 0.75, respectively.

The estimated IELCRs are above the *de minimis* risk level but within the acceptable risk range of one-in-one million (1×10^{-6}) to one hundred in a million (1×10^{-4}). The cumulative HI for scenario 1 is above the acceptable HI of 1 but below for scenario 3.

The estimated IELCRs and noncancer HIs derived using the generic AF of 0.03 are likely overestimated because there is likely additional attenuation from subsurface depths to sub-slab. The generic AF may not provide representative theoretical risks from vapor intrusion. Under scenario 3, the estimated IELCR is above the de minimis risk level and is primarily attributed to chloroform and PCE from sample locations within the Unit 3 Area and north of the northern Unit 3 boundary within the in-situ solidification area of adjacent Northeast Area.

Tank Farm

- Based on the generic AF of 0.03, the estimated IELCR for all COPCs is 9×10^{-3} and the estimated noncancer HI is 290, respectively.
- Based on the adjusted AF of 0.0075, the estimated IELCR and noncancer HI are 2×10^{-3} and 72, respectively.
- Based on the adjusted AF of 0.0075 and an AF of 0.001 for petroleum-based COPCs, the estimated IELCR and noncancer HI are 3×10^{-4} and 9.6, respectively.

The estimated IELCRs are above the upper end of the acceptable risk level of one hundred in a million (1×10^{-4}) and the cumulative HIs are above the acceptable HI of 1. Benzene and to a lesser extent, naphthalene, are the primary risk-driving COPCs.

Northeast Area

- Based on the generic AF of 0.03, the estimated IELCR for all COPCs is 2×10^{-2} and the estimated noncancer HI is 480, respectively.
- Based on the adjusted AF of 0.0075, the estimated IELCR and noncancer HI are 4×10^{-3} and 120, respectively.
- Based on the adjusted AF of 0.0075 and an AF of 0.001 for petroleum-based COPCs, the estimated IELCR and noncancer HI are 6×10^{-4} and 16, respectively.

The estimated IELCR for scenarios 1, 2, and 3 are above the upper end of the acceptable risk range of one hundred in a million (1×10^{-4}). The cumulative HIs also are above the acceptable HI of 1.

Summary

Based on the results from soil vapor samples and the analysis discussed herein for the future development, existing conditions and the proposed development of a multi-level building over an underground garage would provide an adequate level of risk protection for residential users in the Station A Area. However, given the proximity of residual source areas within the Tank Farm and Northeast Areas to the northern boundary and northeast corner of development Block 8, the collection and analysis of contemporaneous samples in Development Block 8 would help support this risk assessment conclusion. For Development Block 9, some form of risk management or remediation may be appropriate to address residual volatile chemicals reported within

Development Block 9. Even with a sub-terranean garage in the Tank Farm and Northeast areas (Development Blocks 1, 2, 3, and 4), some form of risk management or remediation of the potential source of COPCs in soil vapor may be appropriate to address elevated levels of benzene and naphthalene reported in soil vapor. Therefore, allowing residential use as analyzed above at the PPS Site would be protective of human health, conditioned on the construction of an underground ventilated garage and implementation of management or mitigation measures to address benzene and naphthalene in soil vapor within and adjacent to the Tank Farm and Northeast Areas and chloroform and PCE in soil vapor within and adjacent to Unit 3.

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TABLES

TABLE 1A

THEORETICAL EXCESS LIFETIME CANCER RISK AND NONCANCER HAZARD RESIDENTIAL EVALUATION - STATION A

USEPA Generic Attenuation Factor 0.03

Potrero Power Plant

San Francisco, California

Chemical	Station A Soil Gas Concentration	Attenuation Factor	Garage Concentration	Occupied Unit EPC	URF	RfC	Cancer Risk	Noncancer Hazard
	µg/m^3	unitless	µg/m^3	µg/m^3	(µg/m^3)$^{-1}$	mg/m^3	unitless	unitless
Acetone	2.00E+01	3.0E-02	6.0E-01	6.0E-02	NC	3.1E+01	NC	2E-06
Benzene	2.88E+02	3.0E-02	8.6E+00	8.6E-01	2.9E-05	3.0E-03	9E-06	3E-01
2-Butanone Methyl ethyl ketone	5.90E+00	3.0E-02	1.8E-01	1.8E-02	NC	5.0E+00	NC	3E-06
sec-Butylbenzene	3.10E+01	3.0E-02	9.3E-01	9.3E-02	NC	4.0E-01	NC	2E-04
Chlorobenzene	6.01E+02	3.0E-02	1.8E+01	1.8E+00	NC	5.0E-02	NC	3E-02
Dichlorodifluoromethane	8.60E+00	3.0E-02	2.6E-01	2.6E-02	NC	1.0E-01	NC	2E-04
Ethylbenzene	5.30E+01	3.0E-02	1.6E+00	1.6E-01	2.5E-06	1.0E+00	1E-07	2E-04
n-Hexane	7.70E+02	3.0E-02	2.3E+01	2.3E+00	NC	7.0E-01	NC	3E-03
Naphthalene	6.04E+02	3.0E-02	1.8E+01	1.8E+00	3.4E-05	3.0E-03	2E-05	6E-01
Tetrachloroethylene	1.00E+01	3.0E-02	3.0E-01	3.0E-02	6.1E-06	4.0E-02	7E-08	7E-04
Tetrahydrofuran	1.30E+01	3.0E-02	3.9E-01	3.9E-02	NC	2.0E+00	NC	2E-05
Toluene	3.68E+02	3.0E-02	1.1E+01	1.1E+00	NC	3.0E-01	NC	4E-03
1,1,1-Trichloroethane	1.72E+02	3.0E-02	5.2E+00	5.2E-01	NC	1.0E+00	NC	5E-04
Trichlorofluoromethane	9.20E+00	3.0E-02	2.8E-01	2.8E-02	NC	1.2E+00	NC	2E-05
1,2,4-Trimethylbenzene	5.90E+01	3.0E-02	1.8E+00	1.8E-01	NC	6.0E-02	NC	3E-03
1,3,5-Trimethylbenzene	4.50E+01	3.0E-02	1.4E+00	1.4E-01	NC	6.0E-02	NC	2E-03
Xylenes	3.42E+02	3.0E-02	1.0E+01	1.0E+00	NC	1.0E-01	NC	1E-02
m,p-Xylenes	1.60E+01	3.0E-02	4.8E-01	4.8E-02	NC	1.0E-01	NC	5E-04
C-6 - C8 aromatics	9.82E+02	3.0E-02	2.9E+01	2.9E+00	NC	3.0E-02	NC	9E-02
C-9 - C16 aromatics	6.31E+02	3.0E-02	1.9E+01	1.9E+00	NC	3.0E-03	NC	6E-01
C5 - C8 Aliphatics	2.04E+04	3.0E-02	6.1E+02	6.1E+01	NC	6.0E-01	NC	1E-01
C9 - C18 Aliphatics	1.28E+04	3.0E-02	3.8E+02	3.8E+01	NC	1.0E-01	NC	4E-01
TOTAL							3E-05	2E+00

Notes and Abbreviations:

Garage Conc = Soil Gas x attenuation factor

Occupied Unit EPC = Garage Conc x 10% Inter Unit Transfer Factor

URF = Inhalation Unit Risk Factor; RfC = Inhalation Reference Concentration

TABLE 1B

THEORETICAL EXCESS LIFETIME CANCER RISK AND NONCANCER HAZARD RESIDENTIAL EVALUATION - STATION A

Adjusted Attenuation Factor Accounting for Higher Air Exchange Rate of Underground Garage 0.0075

Potrero Power Plant

San Francisco, California

Chemical	Station A Soil Gas Concentration	Attenuation Factor	Garage Concentration	Occupied Unit EPC	URF	RfC	Cancer Risk	Noncancer Hazard
	µg/m^3	unitless	µg/m^3	µg/m^3	(µg/m^3)$^{-1}$	mg/m^3	unitless	unitless
Acetone	2.00E+01	7.5E-03	1.5E-01	1.5E-02	NC	3.1E+01	NC	5E-07
Benzene	2.88E+02	7.5E-03	2.2E+00	2.2E-01	2.9E-05	3.0E-03	2E-06	7E-02
2-Butanone Methyl ethyl ketone	5.90E+00	7.5E-03	4.4E-02	4.4E-03	NC	5.0E+00	NC	8E-07
sec-Butylbenzene	3.10E+01	7.5E-03	2.3E-01	2.3E-02	NC	4.0E-01	NC	6E-05
Chlorobenzene	6.01E+02	7.5E-03	4.5E+00	4.5E-01	NC	5.0E-02	NC	9E-03
Dichlorodifluoromethane	8.60E+00	7.5E-03	6.5E-02	6.5E-03	NC	1.0E-01	NC	6E-05
Ethylbenzene	5.30E+01	7.5E-03	4.0E-01	4.0E-02	2.5E-06	1.0E+00	4E-08	4E-05
n-Hexane	7.70E+02	7.5E-03	5.8E+00	5.8E-01	NC	7.0E-01	NC	8E-04
Naphthalene	6.04E+02	7.5E-03	4.5E+00	4.5E-01	3.4E-05	3.0E-03	5E-06	1E-01
Tetrachloroethylene	1.00E+01	7.5E-03	7.5E-02	7.5E-03	6.1E-06	4.0E-02	2E-08	2E-04
Tetrahydrofuran	1.30E+01	7.5E-03	9.8E-02	9.8E-03	NC	2.0E+00	NC	5E-06
Toluene	3.68E+02	7.5E-03	2.8E+00	2.8E-01	NC	3.0E-01	NC	9E-04
1,1,1-Trichloroethane	1.72E+02	7.5E-03	1.3E+00	1.3E-01	NC	1.0E+00	NC	1E-04
Trichlorofluoromethane	9.20E+00	7.5E-03	6.9E-02	6.9E-03	NC	1.2E+00	NC	6E-06
1,2,4-Trimethylbenzene	5.90E+01	7.5E-03	4.4E-01	4.4E-02	NC	6.0E-02	NC	7E-04
1,3,5-Trimethylbenzene	4.50E+01	7.5E-03	3.4E-01	3.4E-02	NC	6.0E-02	NC	5E-04
Xylenes	3.42E+02	7.5E-03	2.6E+00	2.6E-01	NC	1.0E-01	NC	2E-03
m,p-Xylenes	1.60E+01	7.5E-03	1.2E-01	1.2E-02	NC	1.0E-01	NC	1E-04
C-6 - C8 aromatics	9.82E+02	7.5E-03	7.4E+00	7.4E-01	NC	3.0E-02	NC	2E-02
C-9 - C16 aromatics	6.31E+02	7.5E-03	4.7E+00	4.7E-01	NC	3.0E-03	NC	2E-01
C5 - C8 Aliphatics	2.04E+04	7.5E-03	1.5E+02	1.5E+01	NC	6.0E-01	NC	2E-02
C9 - C18 Aliphatics	1.28E+04	7.5E-03	9.6E+01	9.6E+00	NC	1.0E-01	NC	9E-02
TOTAL							8E-06	5E-01

Notes and Abbreviations:

Garage Conc = Soil Gas x attenuation factor

Occupied Unit EPC = Garage Conc x 10% Inter Unit Transfer Factor

URF = Inhalation Unit Risk Factor; RfC = Inhalation Reference Concentration

TABLE 1C

THEORETICAL EXCESS LIFETIME CANCER RISK AND NONCANCER HAZARD RESIDENTIAL EVALUATION - STATION A

Adjusted Attenuation Factor 0.0075 and DTSC Recommended Future Residential Attenuation Factor 0.001 for Petroleum COPCs

Potrero Power Plant

San Francisco, California

Chemical	Station A Soil Gas Concentration	Attenuation Factor	Garage Concentration	Occupied Unit EPC	URF	RfC	Cancer Risk	Noncancer Hazard
	µg/m^3	unitless	µg/m^3	µg/m^3	(µg/m^3)$^{-1}$	mg/m^3	unitless	unitless
Acetone	2.00E+01	7.5E-03	1.5E-01	1.5E-02	NC	3.1E+01	NC	5E-07
Benzene	2.88E+02	1.0E-03	2.9E-01	2.9E-02	2.9E-05	3.0E-03	3E-07	9E-03
2-Butanone Methyl ethyl ketone	5.90E+00	1.0E-03	5.9E-03	5.9E-04	NC	5.0E+00	NC	1E-07
sec-Butylbenzene	3.10E+01	1.0E-03	3.1E-02	3.1E-03	NC	4.0E-01	NC	7E-06
Chlorobenzene	6.01E+02	1.0E-03	6.0E-01	6.0E-02	NC	5.0E-02	NC	1E-03
Dichlorodifluoromethane	8.60E+00	7.5E-03	6.5E-02	6.5E-03	NC	1.0E-01	NC	6E-05
Ethylbenzene	5.30E+01	1.0E-03	5.3E-02	5.3E-03	2.5E-06	1.0E+00	5E-09	5E-06
n-Hexane	7.70E+02	1.0E-03	7.7E-01	7.7E-02	NC	7.0E-01	NC	1E-04
Naphthalene	6.04E+02	1.0E-03	6.0E-01	6.0E-02	3.4E-05	3.0E-03	7E-07	2E-02
Tetrachloroethylene	1.00E+01	7.5E-03	7.5E-02	7.5E-03	6.1E-06	4.0E-02	2E-08	2E-04
Tetrahydrofuran	1.30E+01	1.0E-03	1.3E-02	1.3E-03	NC	2.0E+00	NC	6E-07
Toluene	3.68E+02	1.0E-03	3.7E-01	3.7E-02	NC	3.0E-01	NC	1E-04
1,1,1-Trichloroethane	1.72E+02	7.5E-03	1.3E+00	1.3E-01	NC	1.0E+00	NC	1E-04
Trichlorofluoromethane	9.20E+00	7.5E-03	6.9E-02	6.9E-03	NC	1.2E+00	NC	6E-06
1,2,4-Trimethylbenzene	5.90E+01	1.0E-03	5.9E-02	5.9E-03	NC	6.0E-02	NC	9E-05
1,3,5-Trimethylbenzene	4.50E+01	1.0E-03	4.5E-02	4.5E-03	NC	6.0E-02	NC	7E-05
Xylenes	3.42E+02	1.0E-03	3.4E-01	3.4E-02	NC	1.0E-01	NC	3E-04
m,p-Xylenes	1.60E+01	1.0E-03	1.6E-02	1.6E-03	NC	1.0E-01	NC	2E-05
C-6 - C8 aromatics	9.82E+02	1.0E-03	9.8E-01	9.8E-02	NC	3.0E-02	NC	3E-03
C-9 - C16 aromatics	6.31E+02	1.0E-03	6.3E-01	6.3E-02	NC	3.0E-03	NC	2E-02
C5 - C8 Aliphatics	2.04E+04	1.0E-03	2.0E+01	2.0E+00	NC	6.0E-01	NC	3E-03
C9 - C18 Aliphatics	1.28E+04	1.0E-03	1.3E+01	1.3E+00	NC	1.0E-01	NC	1E-02
TOTAL							1E-06	7E-02

Notes and Abbreviations:

Garage Conc = Soil Gas x attenuation factor

Occupied Unit EPC = Garage Conc x 10% Inter Unit Transfer Factor

URF = Inhalation Unit Risk Factor; RfC = Inhalation Reference Concentration

TABLE 2A
THEORETICAL EXCESS LIFETIME CANCER RISK AND NONCANCER HAZARD RESIDENTIAL EVALUATION - UNIT 3
USEPA Generic Attenuation Factor 0.03
Potrero Power Plant
San Francisco, California

Chemical	Unit 3 Soil Gas Concentration	Attenuation Factor	At Grade Occupied Unit	URF	RfC	Cancer Risk	Noncancer Hazard
	µg/m^3	unitless	µg/m^3	(µg/m^3)$^{-1}$	mg/m^3	unitless	unitless
Acetone	1.2E+01	3.0E-02	3.6E-01	NC	3.1E+01	NC	1E-05
Benzene	1.5E+02	3.0E-02	4.5E+00	2.9E-05	3.0E-03	5E-05	1E+00
sec-Butylbenzene	4.2E+01	3.0E-02	1.3E+00	NC	4.0E-01	NC	3E-03
Carbon disulfide	2.5E+01	3.0E-02	7.5E-01	NC	7.0E-01	NC	1E-03
Chloroform	4.6E+01	3.0E-02	1.4E+00	2.3E-05	9.8E-02	1E-05	1E-02
Cyclohexane	3.1E+00	3.0E-02	9.3E-02	NC	6.0E+00	NC	1E-05
Dichlorodifluoromethane	1.6E+01	3.0E-02	4.8E-01	NC	1.0E-01	NC	5E-03
Ethylbenzene	1.0E+02	3.0E-02	3.1E+00	2.5E-06	1.0E+00	3E-06	3E-03
Methylene Chloride	4.8E+00	3.0E-02	1.4E-01	1.0E-06	4.0E-01	5E-08	3E-04
Naphthalene	1.5E+02	3.0E-02	4.5E+00	3.4E-05	3.0E-03	5E-05	1E+00
Tetrachloroethylene	1.3E+02	3.0E-02	3.9E+00	6.1E-06	4.0E-02	8E-06	9E-02
Toluene	1.0E+02	3.0E-02	3.1E+00	NC	3.0E-01	NC	1E-02
1,1,1-Trichloroethane	4.3E+00	3.0E-02	1.3E-01	NC	1.0E+00	NC	1E-04
Trichloroethene	3.2E+01	3.0E-02	9.6E-01	4.1E-06	2.0E-03	1E-06	5E-01
Trichlorofluoromethane	1.6E+01	3.0E-02	4.8E-01	NC	1.2E+00	NC	4E-04
1,2,4-Trimethylbenzene	8.6E+01	3.0E-02	2.6E+00	NC	6.0E-02	NC	4E-02
Xylenes	2.6E+02	3.0E-02	7.8E+00	NC	1.0E-01	NC	7E-02
C-6 - C8 aromatics	4.6E+02	3.0E-02	1.4E+01	NC	3.0E-02	NC	4E-01
C-9 - C16 aromatics	1.5E+02	3.0E-02	4.5E+00	NC	3.0E-03	NC	1E+00
TOTAL						1E-04	5.5E+00

Notes and Abbreviations:

At-Grade Occupied Unit EPC = Soil gas concentration x attenuation factor

URF = Inhalation Unit Risk Factor; RfC = Inhalation Reference Concentration

TABLE 2B

THEORETICAL EXCESS LIFETIME CANCER RISK AND NONCANCER HAZARD RESIDENTIAL EVALUATION - UNIT 3

USEPA Generic Attenuation Factor 0.03 and DTSC Recommended Future Residential Attenuation Factor 0.001 for Petroleum COPCs

Potrero Power Plant

San Francisco, California

Chemical	Unit 3 Soil Gas Concentration	Attenuation Factor	At Grade Occupied Unit	URF	RfC	Cancer Risk	Noncancer Hazard
	µg/m^3	unitless	µg/m^3	(µg/m^3)$^{-1}$	mg/m^3	unitless	unitless
Acetone	1.2E+01	3.0E-02	3.6E-01	NC	3.1E+01	NC	1E-05
Benzene	1.5E+02	1.0E-03	1.5E-01	2.9E-05	3.0E-03	2E-06	5E-02
sec-Butylbenzene	4.2E+01	1.0E-03	4.2E-02	NC	4.0E-01	NC	1E-04
Carbon disulfide	2.5E+01	3.0E-02	7.5E-01	NC	7.0E-01	NC	1E-03
Chloroform	4.6E+01	3.0E-02	1.4E+00	2.3E-05	9.8E-02	1E-05	1E-02
Cyclohexane	3.1E+00	3.0E-02	9.3E-02	NC	6.0E+00	NC	1E-05
Dichlorodifluoromethane	1.6E+01	3.0E-02	4.8E-01	NC	1.0E-01	NC	5E-03
Ethylbenzene	1.0E+02	1.0E-03	1.0E-01	2.5E-06	1.0E+00	9E-08	1E-04
Methylene Chloride	4.8E+00	3.0E-02	1.4E-01	1.0E-06	4.0E-01	5E-08	3E-04
Naphthalene	1.5E+02	1.0E-03	1.5E-01	3.4E-05	3.0E-03	2E-06	5E-02
Tetrachloroethylene	1.3E+02	3.0E-02	3.9E+00	6.1E-06	4.0E-02	8E-06	9E-02
Toluene	1.0E+02	1.0E-03	1.0E-01	NC	3.0E-01	NC	3E-04
1,1,1-Trichloroethane	4.3E+00	3.0E-02	1.3E-01	NC	1.0E+00	NC	1E-04
Trichloroethene	3.2E+01	3.0E-02	9.6E-01	4.1E-06	2.0E-03	1E-06	5E-01
Trichlorofluoromethane	1.6E+01	3.0E-02	4.8E-01	NC	1.2E+00	NC	4E-04
1,2,4-Trimethylbenzene	8.6E+01	1.0E-03	8.6E-02	NC	6.0E-02	NC	1E-03
Xylenes	2.6E+02	1.0E-03	2.6E-01	NC	1.0E-01	NC	2E-03
C-6 - C8 aromatics	4.6E+02	1.0E-03	4.6E-01	NC	3.0E-02	NC	1E-02
C-9 - C16 aromatics	1.5E+02	1.0E-03	1.5E-01	NC	3.0E-03	NC	5E-02
TOTAL						2E-05	7.4E-01

Notes and Abbreviations:

At-Grade Occupied Unit EPC = Soil gas concentration x attenuation factor

URF = Inhalation Unit Risk Factor; RfC = Inhalation Reference Concentration

TABLE 3A
THEORETICAL EXCESS LIFETIME CANCER RISK AND NONCANCER HAZARD RESIDENTIAL EVALUATION - TANK FARM
USEPA Generic Attenuation Factor 0.03
Potrero Power Plant
San Francisco, California

Chemical	Tank Farm Soil Gas Concentration	Attenuation Factor	Garage Concentration	Occupied Unit EPC	URF	RfC	Cancer Risk	Noncancer Hazard
	µg/m^3	unitless	µg/m^3	µg/m^3	(µg/m^3)$^{-1}$	mg/m^3	unitless	unitless
Acetone	6.10E+02	3.0E-02	1.8E+01	1.8E+00	NC	3.1E+01	NC	6E-05
Benzene	2.80E+05	3.0E-02	8.4E+03	8.4E+02	2.9E-05	3.0E-03	9E-03	3E+02
2-Butanone Methyl ethyl ketone	8.00E+00	3.0E-02	2.4E-01	2.4E-02	NC	5.0E+00	NC	5E-06
sec-Butylbenzene	1.90E+02	3.0E-02	5.7E+00	5.7E-01	NC	4.0E-01	NC	1E-03
Carbon disulfide	1.60E+02	3.0E-02	4.8E+00	4.8E-01	NC	7.0E-01	NC	7E-04
Chloroform	4.40E+01	3.0E-02	1.3E+00	1.3E-01	2.3E-05	9.8E-02	1E-06	1E-03
Chloromethane	1.50E+00	3.0E-02	4.5E-02	4.5E-03	NC	9.0E-02	NC	5E-05
Dichlorodifluoromethane	1.00E+02	3.0E-02	3.0E+00	3.0E-01	NC	1.0E-01	NC	3E-03
cis-1,2-Dichloroethene	3.60E+00	3.0E-02	1.1E-01	1.1E-02	NC	8.0E-03	NC	1E-03
Ethanol	1.20E+02	3.0E-02	3.6E+00	3.6E-01	NC	NA	NC	NA
Ethylbenzene	7.00E+04	3.0E-02	2.1E+03	2.1E+02	2.5E-06	1.0E+00	2E-04	2E-01
4-Ethyltoluene	1.70E+03	3.0E-02	5.1E+01	5.1E+00	NC	3.0E-01	NC	2E-02
n-Hexane	1.80E+03	3.0E-02	5.4E+01	5.4E+00	NC	7.0E-01	NC	7E-03
Methyl tertiary butyl ether (MTBE)	1.60E+01	3.0E-02	4.8E-01	4.8E-02	2.6E-07	3.0E+00	4E-09	2E-05
Naphthalene	1.30E+04	3.0E-02	3.9E+02	3.9E+01	3.4E-05	3.0E-03	5E-04	1E+01
Styrene	7.00E+02	3.0E-02	2.1E+01	2.1E+00	NC	9.0E-01	NC	2E-03
Tetrachloroethylene	3.50E+02	3.0E-02	1.1E+01	1.1E+00	6.1E-06	4.0E-02	2E-06	3E-02
Toluene	1.70E+04	3.0E-02	5.1E+02	5.1E+01	NC	3.0E-01	NC	2E-01
Trichloroethene	5.60E+01	3.0E-02	1.7E+00	1.7E-01	4.1E-06	2.0E-03	2E-07	8E-02
Trichlorofluoromethane	2.40E+02	3.0E-02	7.2E+00	7.2E-01	NC	1.2E+00	NC	6E-04
1,2,4-Trimethylbenzene	3.90E+03	3.0E-02	1.2E+02	1.2E+01	NC	6.0E-02	NC	2E-01
1,3,5-Trimethylbenzene	1.60E+03	3.0E-02	4.8E+01	4.8E+00	NC	6.0E-02	NC	8E-02
Vinyl Chloride	1.10E+01	3.0E-02	3.3E-01	3.3E-02	7.8E-05	1.0E-01	9E-07	3E-04
Xylenes	1.90E+04	3.0E-02	5.7E+02	5.7E+01	NC	1.0E-01	NC	5E-01
C-6 - C8 aromatics	2.60E+04	3.0E-02	7.8E+02	7.8E+01	NC	3.0E-02	NC	2E+00
C-9 - C16 aromatics	7.30E+02	3.0E-02	2.2E+01	2.2E+00	NC	3.0E-03	NC	7E-01
C5 - C8 Aliphatics	1.64E+05	3.0E-02	4.9E+03	4.9E+02	NC	6.0E-01	NC	8E-01
C9 - C18 Aliphatics	3.60E+04	3.0E-02	1.1E+03	1.1E+02	NC	1.0E-01	NC	1E+00
TOTAL							9E-03	2.9E+02

Notes and Abbreviations:

Garage Conc = Soil Gas x attenuation factor

Occupied Unit EPC = Garage Conc x 10% Inter Unit Transfer Factor

URF = Inhalation Unit Risk Factor; RfC = Inhalation Reference Concentration

TABLE 3B

THEORETICAL EXCESS LIFETIME CANCER RISK AND NONCANCER HAZARD RESIDENTIAL EVALUATION - TANK FARM

Adjusted Attenuation Factor Accounting for Higher Air Exchange Rate of Underground Garage 0.0075

Potrero Power Plant

San Francisco, California

Chemical	Tank Farm Soil Gas Concentration	Attenuation Factor	Garage Concentration	Occupied Unit EPC	URF	RfC	Cancer Risk	Noncancer Hazard
	µg/m^3	unitless	µg/m^3	µg/m^3	(µg/m^3)$^{-1}$	mg/m^3	unitless	unitless
Acetone	6.10E+02	7.5E-03	4.6E+00	4.6E-01	NC	3.1E+01	NC	1E-05
Benzene	2.80E+05	7.5E-03	2.1E+03	2.1E+02	2.9E-05	3.0E-03	2E-03	7E+01
2-Butanone Methyl ethyl ketone	8.00E+00	7.5E-03	6.0E-02	6.0E-03	NC	5.0E+00	NC	1E-06
sec-Butylbenzene	1.90E+02	7.5E-03	1.4E+00	1.4E-01	NC	4.0E-01	NC	3E-04
Carbon disulfide	1.60E+02	7.5E-03	1.2E+00	1.2E-01	NC	7.0E-01	NC	2E-04
Chloroform	4.40E+01	7.5E-03	3.3E-01	3.3E-02	2.3E-05	9.8E-02	3E-07	3E-04
Chloromethane	1.50E+00	7.5E-03	1.1E-02	1.1E-03	NC	9.0E-02	NC	1E-05
Dichlorodifluoromethane	1.00E+02	7.5E-03	7.5E-01	7.5E-02	NC	1.0E-01	NC	7E-04
cis-1,2-Dichloroethene	3.60E+00	7.5E-03	2.7E-02	2.7E-03	NC	8.0E-03	NC	3E-04
Ethanol	1.20E+02	7.5E-03	9.0E-01	9.0E-02	NC	NA	NC	NA
Ethylbenzene	7.00E+04	7.5E-03	5.3E+02	5.3E+01	2.5E-06	1.0E+00	5E-05	5E-02
4-Ethyltoluene	1.70E+03	7.5E-03	1.3E+01	1.3E+00	NC	3.0E-01	NC	4E-03
n-Hexane	1.80E+03	7.5E-03	1.4E+01	1.4E+00	NC	7.0E-01	NC	2E-03
Methyl tertiary butyl ether (MTBE)	1.60E+01	7.5E-03	1.2E-01	1.2E-02	2.6E-07	3.0E+00	1E-09	4E-06
Naphthalene	1.30E+04	7.5E-03	9.8E+01	9.8E+00	3.4E-05	3.0E-03	1E-04	3E+00
Styrene	7.00E+02	7.5E-03	5.3E+00	5.3E-01	NC	9.0E-01	NC	6E-04
Tetrachloroethylene	3.50E+02	7.5E-03	2.6E+00	2.6E-01	6.1E-06	4.0E-02	6E-07	6E-03
Toluene	1.70E+04	7.5E-03	1.3E+02	1.3E+01	NC	3.0E-01	NC	4E-02
Trichloroethene	5.60E+01	7.5E-03	4.2E-01	4.2E-02	4.1E-06	2.0E-03	6E-08	2E-02
Trichlorofluoromethane	2.40E+02	7.5E-03	1.8E+00	1.8E-01	NC	1.2E+00	NC	1E-04
1,2,4-Trimethylbenzene	3.90E+03	7.5E-03	2.9E+01	2.9E+00	NC	6.0E-02	NC	5E-02
1,3,5-Trimethylbenzene	1.60E+03	7.5E-03	1.2E+01	1.2E+00	NC	6.0E-02	NC	2E-02
Vinyl Chloride	1.10E+01	7.5E-03	8.3E-02	8.3E-03	7.8E-05	1.0E-01	2E-07	8E-05
Xylenes	1.90E+04	7.5E-03	1.4E+02	1.4E+01	NC	1.0E-01	NC	1E-01
C-6 - C8 aromatics	2.60E+04	7.5E-03	2.0E+02	2.0E+01	NC	3.0E-02	NC	6E-01
C-9 - C16 aromatics	7.30E+02	7.5E-03	5.5E+00	5.5E-01	NC	3.0E-03	NC	2E-01
C5 - C8 Aliphatics	1.64E+05	7.5E-03	1.2E+03	1.2E+02	NC	6.0E-01	NC	2E-01
C9 - C18 Aliphatics	3.60E+04	7.5E-03	2.7E+02	2.7E+01	NC	1.0E-01	NC	3E-01
TOTAL							2E-03	7.2E+01

Notes and Abbreviations:

Garage Conc = Soil Gas x attenuation factor

Occupied Unit EPC = Garage Conc x 10% Inter Unit Transfer Factor

URF = Inhalation Unit Risk Factor; RfC = Inhalation Reference Concentration

TABLE 3C

THEORETICAL EXCESS LIFETIME CANCER RISK AND NONCANCER HAZARD RESIDENTIAL EVALUATION - TANK FARM

Adjusted Attenuation Factor 0.0075 and DTSC Recommended Future Residential Attenuation Factor 0.001 for Petroleum COPCs

Potrero Power Plant

San Francisco, California

Chemical	Tank Farm Soil Gas Concentration	Attenuation Factor	Garage Concentration	Occupied Unit EPC	URF	RfC	Cancer Risk	Noncancer Hazard
	µg/m^3	unitless	µg/m^3	µg/m^3	(µg/m^3)$^{-1}$	mg/m^3	unitless	unitless
Acetone	6.10E+02	7.5E-03	4.6E+00	4.6E-01	NC	3.1E+01	NC	1E-05
Benzene	2.80E+05	1.0E-03	2.8E+02	2.8E+01	2.9E-05	3.0E-03	3E-04	9E+00
2-Butanone Methyl ethyl ketone	8.00E+00	1.0E-03	8.0E-03	8.0E-04	NC	5.0E+00	NC	2E-07
sec-Butylbenzene	1.90E+02	1.0E-03	1.9E-01	1.9E-02	NC	4.0E-01	NC	5E-05
Carbon disulfide	1.60E+02	7.5E-03	1.2E+00	1.2E-01	NC	7.0E-01	NC	2E-04
Chloroform	4.40E+01	7.5E-03	3.3E-01	3.3E-02	2.3E-05	9.8E-02	3E-07	3E-04
Chloromethane	1.50E+00	7.5E-03	1.1E-02	1.1E-03	NC	9.0E-02	NC	1E-05
Dichlorodifluoromethane	1.00E+02	7.5E-03	7.5E-01	7.5E-02	NC	1.0E-01	NC	7E-04
cis-1,2-Dichloroethene	3.60E+00	7.5E-03	2.7E-02	2.7E-03	NC	8.0E-03	NC	3E-04
Ethanol	1.20E+02	1.0E-03	1.2E-01	1.2E-02	NC	NA	NC	NA
Ethylbenzene	7.00E+04	1.0E-03	7.0E+01	7.0E+00	2.5E-06	1.0E+00	6E-06	7E-03
4-Ethyltoluene	1.70E+03	1.0E-03	1.7E+00	1.7E-01	NC	3.0E-01	NC	5E-04
n-Hexane	1.80E+03	1.0E-03	1.8E+00	1.8E-01	NC	7.0E-01	NC	2E-04
Methyl tertiary butyl ether (MTBE)	1.60E+01	1.0E-03	1.6E-02	1.6E-03	2.6E-07	3.0E+00	1E-10	5E-07
Naphthalene	1.30E+04	1.0E-03	1.3E+01	1.3E+00	3.4E-05	3.0E-03	2E-05	4E-01
Styrene	7.00E+02	1.0E-03	7.0E-01	7.0E-02	NC	9.0E-01	NC	7E-05
Tetrachloroethylene	3.50E+02	7.5E-03	2.6E+00	2.6E-01	6.1E-06	4.0E-02	6E-07	6E-03
Toluene	1.70E+04	1.0E-03	1.7E+01	1.7E+00	NC	3.0E-01	NC	5E-03
Trichloroethene	5.60E+01	7.5E-03	4.2E-01	4.2E-02	4.1E-06	2.0E-03	6E-08	2E-02
Trichlorofluoromethane	2.40E+02	7.5E-03	1.8E+00	1.8E-01	NC	1.2E+00	NC	1E-04
1,2,4-Trimethylbenzene	3.90E+03	1.0E-03	3.9E+00	3.9E-01	NC	6.0E-02	NC	6E-03
1,3,5-Trimethylbenzene	1.60E+03	1.0E-03	1.6E+00	1.6E-01	NC	6.0E-02	NC	3E-03
Vinyl Chloride	1.10E+01	7.5E-03	8.3E-02	8.3E-03	7.8E-05	1.0E-01	2E-07	8E-05
Xylenes	1.90E+04	1.0E-03	1.9E+01	1.9E+00	NC	1.0E-01	NC	2E-02
C-6 - C8 aromatics	2.60E+04	1.0E-03	2.6E+01	2.6E+00	NC	3.0E-02	NC	8E-02
C-9 - C16 aromatics	7.30E+02	1.0E-03	7.3E-01	7.3E-02	NC	3.0E-03	NC	2E-02
C5 - C8 Aliphatics	1.64E+05	1.0E-03	1.6E+02	1.6E+01	NC	6.0E-01	NC	3E-02
C9 - C18 Aliphatics	3.60E+04	1.0E-03	3.6E+01	3.6E+00	NC	1.0E-01	NC	3E-02
TOTAL							3E-04	9.6E+00

Notes and Abbreviations:

Garage Conc = Soil Gas x attenuation factor

Occupied Unit EPC = Garage Conc x 10% Inter Unit Transfer Factor

URF = Inhalation Unit Risk Factor; RfC = Inhalation Reference Concentration

TABLE 4A
THEORETICAL EXCESS LIFETIME CANCER RISK AND NONCANCER HAZARD RESIDENTIAL EVALUATION - NORTHEAST AREA
USEPA Generic Attenuation Factor 0.03
Potrero Power Plant
San Francisco, California

Chemical	Northeast Area Soil Gas Concentration	Attenuation Factor	Garage Concentration	Occupied Unit EPC	URF	RfC	Cancer Risk	Noncancer Hazard
	µg/m^3	unitless	µg/m^3	µg/m^3	(µg/m^3)$^{-1}$	mg/m^3	unitless	unitless
Acetone	1.20E+02	3.0E-02	3.6E+00	3.6E-01	NC	3.1E+01	NC	1E-05
Benzene	1.70E+05	3.0E-02	5.1E+03	5.1E+02	2.9E-05	3.0E-03	5E-03	2E+02
sec-Butylbenzene	7.80E+02	3.0E-02	2.3E+01	2.3E+00	NC	4.0E-01	NC	6E-03
Carbon disulfide	1.40E+02	3.0E-02	4.2E+00	4.2E-01	NC	7.0E-01	NC	6E-04
Chlorobenzene	1.40E+03	3.0E-02	4.2E+01	4.2E+00	NC	5.0E-02	NC	8E-02
Chloroform	3.00E+01	3.0E-02	9.0E-01	9.0E-02	2.3E-05	9.8E-02	7E-07	9E-04
Cyclohexane	2.90E+03	3.0E-02	8.7E+01	8.7E+00	NC	6.0E+00	NC	1E-03
Dichlorodifluoromethane	1.60E+01	3.0E-02	4.8E-01	4.8E-02	NC	1.0E-01	NC	5E-04
Ethylbenzene	1.20E+04	3.0E-02	3.6E+02	3.6E+01	2.5E-06	1.0E+00	3E-05	3E-02
n-Hexane	4.00E+00	3.0E-02	1.2E-01	1.2E-02	NC	7.0E-01	NC	2E-05
Methyl ethyl ketone	1.20E+01	3.0E-02	3.6E-01	3.6E-02	NC	5.0E+00	NC	7E-06
Naphthalene	3.30E+05	3.0E-02	9.9E+03	9.9E+02	3.4E-05	3.0E-03	1E-02	3E+02
n-Propylbenzene	7.80E+02	3.0E-02	2.3E+01	2.3E+00	NC	1.0E+00	NC	2E-03
Tetrachloroethylene	2.40E+02	3.0E-02	7.2E+00	7.2E-01	6.1E-06	4.0E-02	2E-06	2E-02
Toluene	1.10E+04	3.0E-02	3.3E+02	3.3E+01	NC	3.0E-01	NC	1E-01
Trichloroethene	3.20E+01	3.0E-02	9.6E-01	9.6E-02	4.1E-06	2.0E-03	1E-07	5E-02
Trichlorofluoromethane	1.60E+01	3.0E-02	4.8E-01	4.8E-02	NC	1.2E+00	NC	4E-05
1,2,4-Trimethylbenzene	2.90E+02	3.0E-02	8.7E+00	8.7E-01	NC	6.0E-02	NC	1E-02
2,2,4-Trimethylpentane	2.00E+03	3.0E-02	6.0E+01	6.0E+00	NC	NA	NC	NA
Xylenes	9.90E+02	3.0E-02	3.0E+01	3.0E+00	NC	1.0E-01	NC	3E-02
m,p-Xylenes	1.20E+03	3.0E-02	3.6E+01	3.6E+00	NC	1.0E-01	NC	3E-02
TOTAL							2E-02	4.8E+02

Notes and Abbreviations:

Garage Conc = Soil Gas x attenuation factor

Occupied Unit EPC = Garage Conc x 10% Inter Unit Transfer Factor

URF = Inhalation Unit Risk Factor; RfC = Inhalation Reference Concentration

TABLE 4B

THEORETICAL EXCESS LIFETIME CANCER RISK AND NONCANCER HAZARD RESIDENTIAL EVALUATION - NORTHEAST AREA

Adjusted Attenuation Factor Accounting for Higher Air Exchange Rate of Underground Garage 0.0075

Potrero Power Plant

San Francisco, California

Chemical	Northeast Area Soil Gas Concentration	Attenuation Factor	Garage Concentration	Occupied Unit EPC	URF	RfC	Cancer Risk	Noncancer Hazard
	µg/m^3	unitless	µg/m^3	µg/m^3	(µg/m^3)$^{-1}$	mg/m^3	unitless	unitless
Acetone	1.20E+02	7.5E-03	9.0E-01	9.0E-02	NC	3.1E+01	NC	3E-06
Benzene	1.70E+05	7.5E-03	1.3E+03	1.3E+02	2.9E-05	3.0E-03	1E-03	4E+01
sec-Butylbenzene	7.80E+02	7.5E-03	5.9E+00	5.9E-01	NC	4.0E-01	NC	1E-03
Carbon disulfide	1.40E+02	7.5E-03	1.1E+00	1.1E-01	NC	7.0E-01	NC	1E-04
Chlorobenzene	1.40E+03	7.5E-03	1.1E+01	1.1E+00	NC	5.0E-02	NC	2E-02
Chloroform	3.00E+01	7.5E-03	2.3E-01	2.3E-02	2.3E-05	9.8E-02	2E-07	2E-04
Cyclohexane	2.90E+03	7.5E-03	2.2E+01	2.2E+00	NC	6.0E+00	NC	3E-04
Dichlorodifluoromethane	1.60E+01	7.5E-03	1.2E-01	1.2E-02	NC	1.0E-01	NC	1E-04
Ethylbenzene	1.20E+04	7.5E-03	9.0E+01	9.0E+00	2.5E-06	1.0E+00	8E-06	9E-03
n-Hexane	4.00E+00	7.5E-03	3.0E-02	3.0E-03	NC	7.0E-01	NC	4E-06
Methyl ethyl ketone	1.20E+01	7.5E-03	9.0E-02	9.0E-03	NC	5.0E+00	NC	2E-06
Naphthalene	3.30E+05	7.5E-03	2.5E+03	2.5E+02	3.4E-05	3.0E-03	3E-03	8E+01
n-Propylbenzene	7.80E+02	7.5E-03	5.9E+00	5.9E-01	NC	1.0E+00	NC	6E-04
Tetrachloroethylene	2.40E+02	7.5E-03	1.8E+00	1.8E-01	6.1E-06	4.0E-02	4E-07	4E-03
Toluene	1.10E+04	7.5E-03	8.3E+01	8.3E+00	NC	3.0E-01	NC	3E-02
Trichloroethene	3.20E+01	7.5E-03	2.4E-01	2.4E-02	4.1E-06	2.0E-03	4E-08	1E-02
Trichlorofluoromethane	1.60E+01	7.5E-03	1.2E-01	1.2E-02	NC	1.2E+00	NC	1E-05
1,2,4-Trimethylbenzene	2.90E+02	7.5E-03	2.2E+00	2.2E-01	NC	6.0E-02	NC	3E-03
2,2,4-Trimethylpentane	2.00E+03	7.5E-03	1.5E+01	1.5E+00	NC	NA	NC	NA
Xylenes	9.90E+02	7.5E-03	7.4E+00	7.4E-01	NC	1.0E-01	NC	7E-03
m,p-Xylenes	1.20E+03	7.5E-03	9.0E+00	9.0E-01	NC	1.0E-01	NC	9E-03
TOTAL							4E-03	1.2E+02

Notes and Abbreviations:

Garage Conc = Soil Gas x attenuation factor

Occupied Unit EPC = Garage Conc x 10% Inter Unit Transfer Factor

URF = Inhalation Unit Risk Factor; RfC = Inhalation Reference Concentration

TABLE 4C

THEORETICAL EXCESS LIFETIME CANCER RISK AND NONCANCER HAZARD RESIDENTIAL EVALUATION - NORTHEAST AREA

Adjusted Attenuation Factor 0.0075 and DTSC Recommended Future Residential Attenuation Factor 0.001 for Petroleum COPCs

Potrero Power Plant

San Francisco, California

Chemical	Northeast Area Soil Gas Concentration	Attenuation Factor	Garage Concentration	Occupied Unit EPC	URF	RfC	Cancer Risk	Noncancer Hazard
	µg/m^3	unitless	µg/m^3	µg/m^3	(µg/m^3)$^{-1}$	mg/m^3	unitless	unitless
Acetone	1.20E+02	7.5E-03	9.0E-01	9.0E-02	NC	3.1E+01	NC	3E-06
Benzene	1.70E+05	1.0E-03	1.7E+02	1.7E+01	2.9E-05	3.0E-03	2E-04	5E+00
sec-Butylbenzene	7.80E+02	1.0E-03	7.8E-01	7.8E-02	NC	4.0E-01	NC	2E-04
Carbon disulfide	1.40E+02	7.5E-03	1.1E+00	1.1E-01	NC	7.0E-01	NC	1E-04
Chlorobenzene	1.40E+03	1.0E-03	1.4E+00	1.4E-01	NC	5.0E-02	NC	3E-03
Chloroform	3.00E+01	7.5E-03	2.3E-01	2.3E-02	2.3E-05	9.8E-02	2E-07	2E-04
Cyclohexane	2.90E+03	1.0E-03	2.9E+00	2.9E-01	NC	6.0E+00	NC	5E-05
Dichlorodifluoromethane	1.60E+01	7.5E-03	1.2E-01	1.2E-02	NC	1.0E-01	NC	1E-04
Ethylbenzene	1.20E+04	1.0E-03	1.2E+01	1.2E+00	2.5E-06	1.0E+00	1E-06	1E-03
n-Hexane	4.00E+00	1.0E-03	4.0E-03	4.0E-04	NC	7.0E-01	NC	5E-07
Methyl ethyl ketone	1.20E+01	1.0E-03	1.2E-02	1.2E-03	NC	5.0E+00	NC	2E-07
Naphthalene	3.30E+05	1.0E-03	3.3E+02	3.3E+01	3.4E-05	3.0E-03	4E-04	1E+01
n-Propylbenzene	7.80E+02	1.0E-03	7.8E-01	7.8E-02	NC	1.0E+00	NC	7E-05
Tetrachloroethylene	2.40E+02	7.5E-03	1.8E+00	1.8E-01	6.1E-06	4.0E-02	4E-07	4E-03
Toluene	1.10E+04	1.0E-03	1.1E+01	1.1E+00	NC	3.0E-01	NC	4E-03
Trichloroethene	3.20E+01	7.5E-03	2.4E-01	2.4E-02	4.1E-06	2.0E-03	4E-08	1E-02
Trichlorofluoromethane	1.60E+01	7.5E-03	1.2E-01	1.2E-02	NC	1.2E+00	NC	1E-05
1,2,4-Trimethylbenzene	2.90E+02	1.0E-03	2.9E-01	2.9E-02	NC	6.0E-02	NC	5E-04
2,2,4-Trimethylpentane	2.00E+03	1.0E-03	2.0E+00	2.0E-01	NC	NA	NC	NA
Xylenes	9.90E+02	1.0E-03	9.9E-01	9.9E-02	NC	1.0E-01	NC	9E-04
m,p-Xylenes	1.20E+03	1.0E-03	1.2E+00	1.2E-01	NC	1.0E-01	NC	1E-03
TOTAL							6E-04	1.6E+01

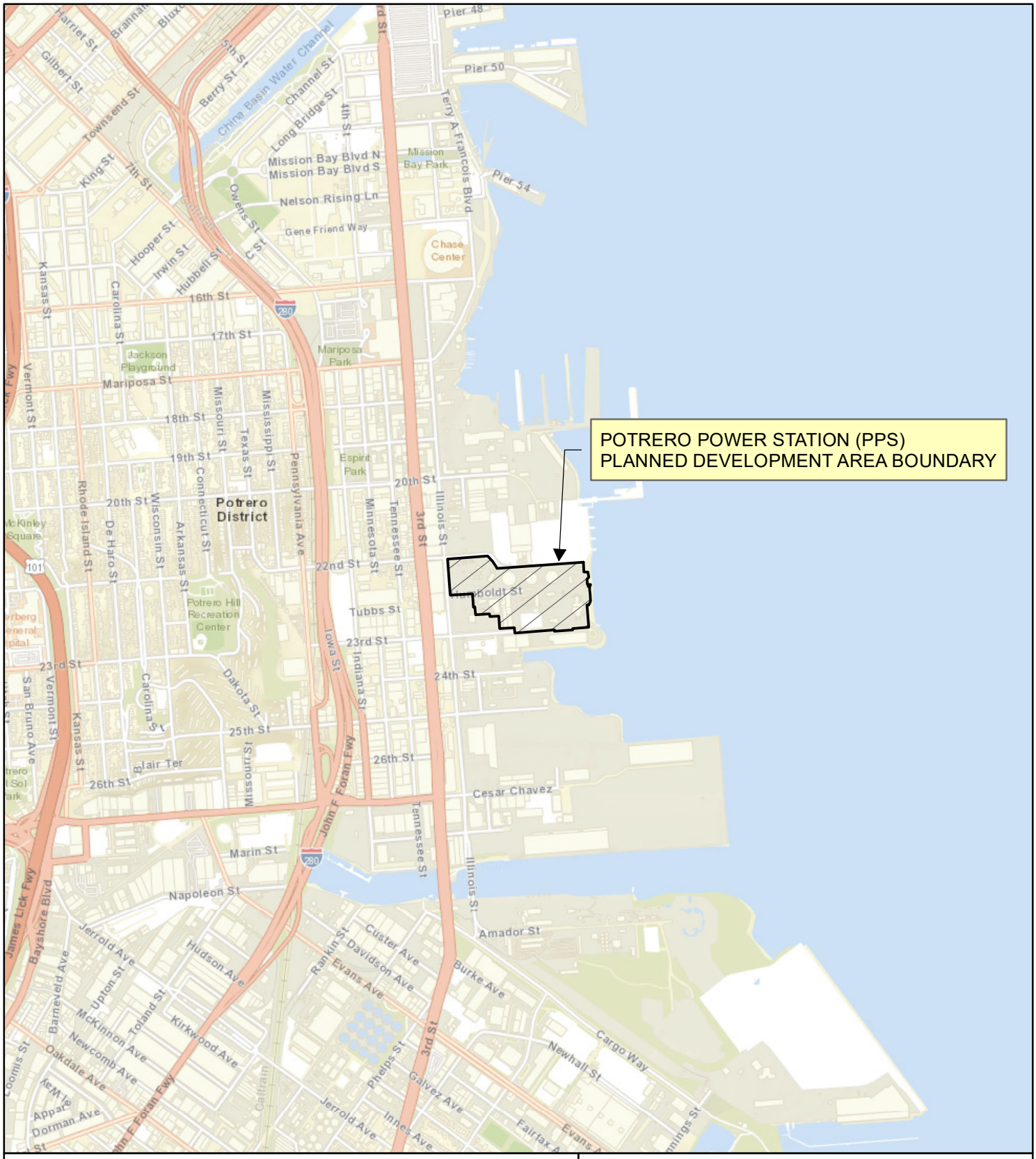
Notes and Abbreviations:

Garage Conc = Soil Gas x attenuation factor

Occupied Unit EPC = Garage Conc x 10% Inter Unit Transfer Factor

URF = Inhalation Unit Risk Factor; RfC = Inhalation Reference Concentration

FIGURES



N

0 2,000 Feet

Site Location Map

Vapor Intrusion Health Risk Assessment
Potrero Power Station
San Francisco, California

Geosyntec consultants

WR2273 | August 2020

Figure 1

D:\GIS\California Barrel Company LLC\Project\2019_12\Fig01_SiteLocationMap.mxd 3/11/2020 7:13:59 PM

Legend

- Planned Development Area Boundary
- Former Operational Subareas

N

0 160 Feet

PPS Site Layout
Vapor Intrusion Health Risk Assessment
Potrero Power Station
San Francisco, California

Geosyntec consultants

WR2273 | August 2020

Figure 2

D:\GIS\California Barrel Company LLC\Project\2020_PPP_RMP\Fig-03_SitePlan.mxd 3/25/2020 2:03:27 PM

Legend

- Residential
- Office or Laboratory
- Laboratory
- Hotel
- Hotel and/or Residential
- * Potential District Parking Garage and Publicly Accessible Rooftop Soccer Field Location
- Open Space
- Proposed Development Boundary

N

0 220 Feet

Proposed Development and Land Uses

Vapor Intrusion Health Risk Assessment
Potrero Power Station
San Francisco, California

Geosyntec consultants

WR2273 | August 2020

Figure 3

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APPENDIX A

ATTACHMENT A1
Station A Soil Vapor Data

HUMAN HEALTH RISK ASSESSMENT

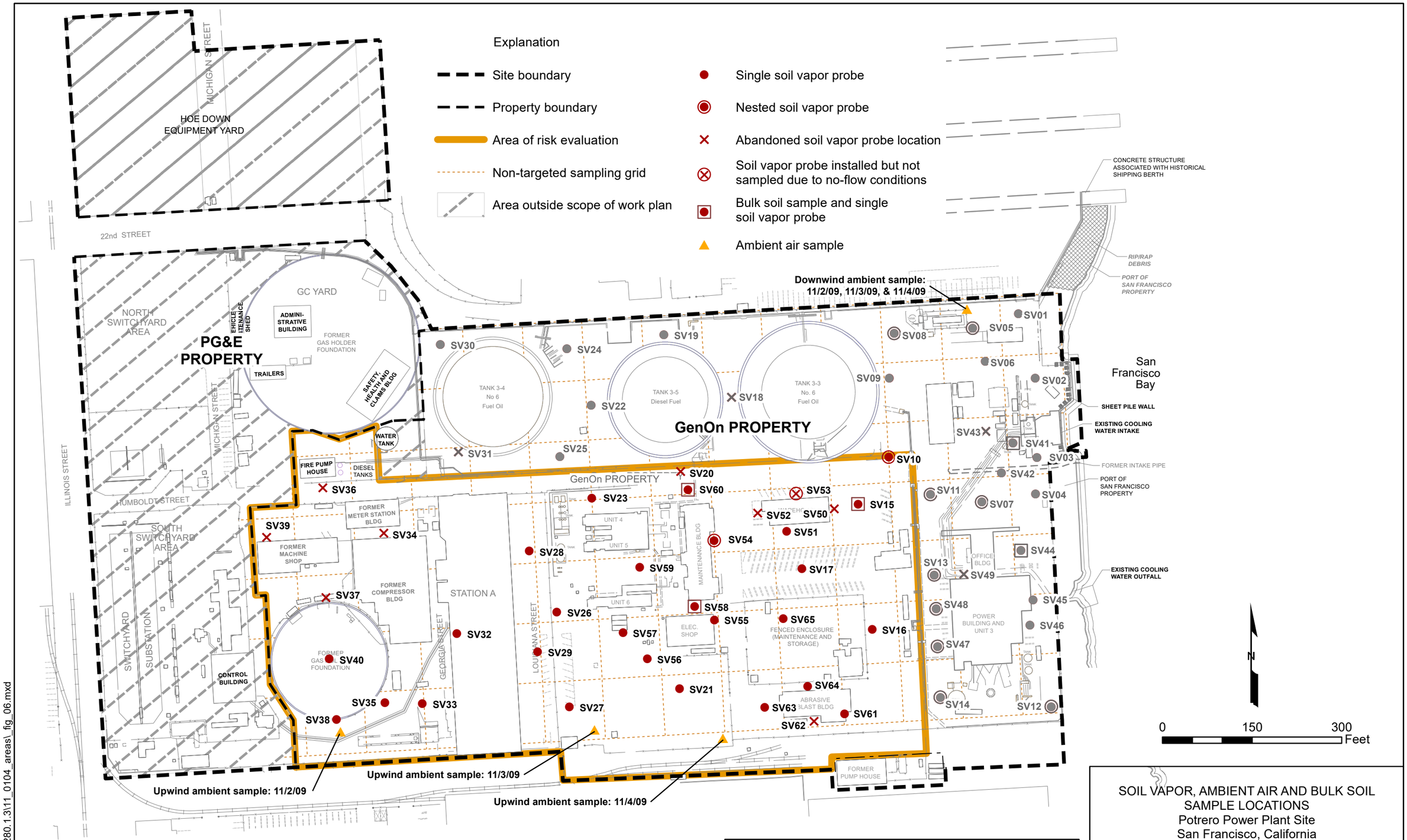
Station A, Potrero Power Plant Site
San Francisco, California

Prepared for:
Pacific Gas and Electric Company,
San Ramon, California

Prepared by:
AMEC, Oakland, California

October 2011

Project OD10160280.1.2



Note:
Soil vapor probes installed by TEG-Northern California, Inc. of Rancho Cordova, California between October 27-30, 2009.

SOIL VAPOR, AMBIENT AIR AND BULK SOIL SAMPLE LOCATIONS
Potrero Power Plant Site
San Francisco, California

By: AJO	Date: 10/27/2011	Project No. OD10160280
amec		Figure 6

S:\OD10\160280.1.3\11_0104_areas_fig_06.mxd

TABLE 11

SUMMARY OF MAXIMUM DETECTED CONCENTRATIONS FOR EACH SOIL VAPOR PROBE [1]

Station A, Potrero Power Plant
San Francisco, California

All concentrations are micrograms per liter (µg/L)

Sample Point	Sample Depth (feet bgs)	Naphtha-lene	Benzene	Toluene	Ethyl-benzene	Xylenes	m,p-Xylenes	Acetone	sec-Butyl-benzene	Chloro-benzene	Dichloro-difluoro-methane	n-Hexane	Methyl Ethyl Ketone	1,1,1-Trichloro-ethane	1,2,4-Trimethyl-benzene	1,3,5-Trimethyl-benzene	Tetra-chloro-ethylene	Tetra-hydro-furan	Trichloro-fluoro-methane
SV10A	3.50	**0.604**	<0.008	**0.016**	<0.008	<0.008	<0.008	--	<0.008	<0.008	<0.008	<0.008	--	<0.008	<0.008	<0.008	<0.008	--	--
SV10B	6.50	**0.538**	<0.008	**0.158**	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	--	<0.008	<0.008	<0.008	<0.008	--	--
SV15	4.10	<0.0094	**0.039**	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	--	<0.008	<0.008	<0.008	<0.008	--	--
SV16	5.20	<0.010	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	--	<0.008	<0.008	<0.008	<0.008	--	--
SV17	4.80	<0.0091	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	--	<0.008	<0.008	<0.008	<0.008	--	--
SV21	5.00	<0.010	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	--	<0.008	<0.008	<0.008	<0.008	--	--
SV23	5.50	**0.21**	**0.272**	**0.368**	<0.008	**0.342**	--	--	**0.031**	<0.008	<0.008	**0.77**	--	<0.008	**0.059**	<0.008	<0.008	--	--
SV26	5.00	<0.008	<0.008	**0.113**	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	--	<0.008	<0.008	<0.008	<0.008	--	--
SV27	5.30	<0.010	<0.008	**0.009**	<0.008	<0.008	--	--	**0.017**	<0.008	<0.008	<0.008	--	<0.008	**0.027**	**0.02**	<0.008	--	--
SV28	5.20	**0.03**	**0.254**	**0.043**	<0.008	**0.23**	--	--	<0.008	**0.601**	<0.008	<0.008	--	<0.008	<0.008	<0.008	<0.008	--	--
SV29	4.50	<0.010	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	--	<0.008	<0.008	<0.008	<0.008	--	--
SV32	5.20	**0.094**	**0.032**	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	--	<0.008	<0.008	<0.008	<0.008	--	--
SV33	4.80	<0.0099	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	--	<0.008	<0.008	<0.008	<0.008	--	--
SV35	4.90	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	--	<0.008	<0.008	<0.008	<0.008	--	--
SV38	5.10	>0.0091	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	--	<0.008	<0.008	<0.008	<0.008	--	--
SV40	5.00	<0.024	<0.008	<0.008	<0.008	<0.008	<0.005	**0.011 J**	<0.008	<0.008	**0.0086**	<0.008	**0.0059**	<0.008	<0.0057	<0.0057	<0.008	**0.013**	**0.0092**
SV51	5.20	<0.0092	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	--	<0.008	<0.008	<0.008	<0.008	--	--
SV54A	3.75	<0.010	<0.008	**0.032**	<0.008	**0.205**	--	--	**0.018**	<0.008	<0.008	<0.008	--	<0.008	**0.031**	**0.025**	<0.008	--	--
SV54B	7.75	<0.010	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	--	<0.008	<0.008	<0.008	<0.008	--	--
SV55	5.20	<0.050	<0.008	**0.026**	<0.01	<0.008	**0.016**	<0.023	<0.008	<0.011	<0.012	<0.008	<0.007	<0.008	<0.012	<0.012	<0.016	<0.007	<0013
SV56	5.00	**0.334**	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	--	<0.008	<0.008	<0.008	<0.008	--	--
SV57	5.50	**0.017**	**0.288**	**0.103**	**0.053**	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	--	<0.008	<0.008	<0.008	<0.008	--	--
SV58	5.00	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	--	<0.008	<0.008	<0.008	<0.008	--	--
SV59	5.00	<0.010	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	--	<0.008	<0.008	<0.008	<0.008	--	--
SV60	5.00	<0.010	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	--	<0.008	<0.008	<0.008	<0.008	--	--
SV61	5.10	<0.0090	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	**0.042**	--	**0.172**	<0.008	<0.008	<0.008	--	--
SV63	5.30	<0.0095	<0.008	**0.045**	<0.008	<0.008	--	--	**0.026**	<0.008	<0.008	<0.008	--	<0.008	**0.047**	**0.045**	<0.008	--	--
SV64	4.75	<0.010	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	--	<0.008	<0.008	<0.008	<0.008	--	--
SV65	5.50	<0.025	<0.008	<0.008	<0.008	<0.008	<0.0052	**0.02**	<0.008	<0.008	<0.008	<0.008	<0.0036	<0.008	<0.008	<0.008	**0.01**	<0.0036	<0.0068
Maximum Detected Concentration		0.604	0.288	0.368	0.053	0.342	0.016	0.02	0.031	0.601	0.0086	0.77	0.0059	0.172	0.059	0.045	0.01	0.013	0.0092
Maximum Detected Concentration—Adjacent to Current Building [2]		ND	ND	0.045	ND	0.205	0.016	ND	0.026	ND	ND	0.042	ND	0.172	0.047	0.045	ND	ND	ND

Notes

1. The maximum detected soil vapor concentration for each soil vapor probe is presented. Soil vapor samples were (1) collected into a glass syringe and analyzed onsite using U.S. EPA Method 8260B by Jones Environmental Laboratories, Inc., in November 2009 and September 2010, (2) collected into a sorbent tube by AMEC Geomatrix, Inc., and analyzed at a fixed laboratory using U.S. EPA Method TO-17 by Air Toxics, Ltd., in November 2009, and (3) collected into a Summa canister by AMEC Geomatrix, Inc., and analyzed using U.S. EPA Method TO-15 by Air Toxics, Limited in November 2009 and September 2010. The analytical results for all samples collected are presented in Appendix A. Soil vapor samples were collected from two separate events from the following locations: SV10A, SV10B, SV56, and SV65.
2. Only soil vapor samples collected from probes installed adjacent to current buildings (SV51, SV54, SV55, SV58, SV60, SV61, SV63, and SV64) were evaluated for the inhalation of volatile organic compounds (VOCs) in indoor air from soil vapor emissions for the current commercial/industrial worker.

Abbreviations

"**Bold**" = detected above the laboratory reporting limit
< = not detected above the laboratory reporting limit
-- = not analyzed
EPA = U.S. Environmental Protection Agency
feet bgs = feet below ground surface
J = analyte was positively identified, but the reported concentration is estimated
ND = not detected

TABLE 14

STATISTICAL SUMMARY FOR CHEMICALS OF POTENTIAL CONCERN (COPCs) IN SOIL VAPOR [1]

Potrero Power Plant

San Francisco, California

All concentrations are presented in micrograms per liter (µg/L)

Chemical	Count	Number of Detects	Number of Non-Detects	Minimum Detection	Maximum Detection	Minimum Reporting Limit	Maximum Reporting Limit	Detection Frequency	Exposure Point Concentration for Ambient Air [2]	Basis [2]
Volatile Organic Compounds (VOCs) and Naphthalene Using EPA Method 8260B										
Naphthalene	39	8	31	0.017	0.604	0.008	0.008	21%	0.604	Maximum Detected Concentration
Benzene	39	5	34	0.032	0.288	0.008	0.008	13%	0.288	Maximum Detected Concentration
Toluene	39	9	30	0.009	0.368	0.008	0.008	23%	0.368	Maximum Detected Concentration
Ethylbenzene	39	1	38	0.053	0.053	0.008	0.008	3%	0.053	Maximum Detected Concentration
Xylenes, total	39	3	36	0.205	0.342	0.008	0.008	8%	0.342	Maximum Detected Concentration
n-Butylbenzene	39	0	39	ND	ND	0.008	0.008	0%	ND	--
sec-Butylbenzene	39	4	35	0.017	0.031	0.008	0.008	10%	0.031	Maximum Detected Concentration
Chlorobenzene	39	1	38	0.601	0.601	0.008	0.008	3%	0.601	Maximum Detected Concentration
Chloroform	39	0	39	ND	ND	0.008	0.008	0%	ND	--
Dichlorodifluoromethane	39	0	39	ND	ND	0.008	0.008	0%	0.0086	Maximum Detected Concentration (EPA Method TO-15)
Hexane	39	2	37	0.042	0.77	0.008	0.008	5%	0.77	Maximum Detected Concentration
Isopropylbenzene (cumene)	39	0	39	ND	ND	0.008	0.008	0%	ND	--
n-Propylbenzene	33	0	33	ND	ND	0.02	0.02	0%	ND	--
1,1,1-Trichloroethane	39	1	38	0.172	0.172	0.008	0.008	3%	0.172	Maximum Detected Concentration
1,2,4-Trimethylbenzene	39	4	35	0.027	0.059	0.008	0.008	10%	0.059	Maximum Detected Concentration
1,3,5-Trimethylbenzene	39	3	36	0.02	0.045	0.008	0.008	8%	0.045	Maximum Detected Concentration
Tetrachloroethylene	39	0	39	ND	ND	0.008	0.008	0%	0.01	Maximum Detected Concentration (EPA Method TO-15)
Volatile Organic Compounds (VOCs) and Naphthalene Using EPA Method TO-15										
Naphthalene	3	0	3	ND	ND	0.024	0.05	0%	0.604	Maximum Detected Concentration (EPA Method 8260B)
Benzene	3	0	3	ND	ND	0.0037	0.0076	0%	0.288	Maximum Detected Concentration (EPA Method 8260B)
Toluene	3	1	2	0.026	0.026	0.0044	0.0046	33%	0.368	Maximum Detected Concentration (EPA Method 8260B)
Ethylbenzene	3	0	3	ND	ND	0.005	0.01	0%	0.053	Maximum Detected Concentration (EPA Method 8260B)
m,p-Xylenes	3	1	2	0.016	0.016	0.005	0.0052	33%	--	Evaluated as Total Xylenes
o-Xylenes	3	0	3	ND	ND	0.005	0.01	0%	--	Evaluated as Total Xylenes
Acetone	2	1	1	0.02	0.02	0.023	0.023	50%	0.02	Maximum Detected Concentration (EPA Method 8260B)
Chlorobenzene	3	0	3	ND	ND	0.0054	0.011	0%	0.601	Maximum Detected Concentration (EPA Method 8260B)

TABLE 14

STATISTICAL SUMMARY FOR CHEMICALS OF POTENTIAL CONCERN (COPCs) IN SOIL VAPOR [1]

Potrero Power Plant

San Francisco, California

All concentrations are presented in micrograms per liter (µg/L)

Chemical	Count	Number of Detects	Number of Non-Detects	Minimum Detection	Maximum Detection	Minimum Reporting Limit	Maximum Reporting Limit	Detection Frequency	Exposure Point Concentration for Ambient Air [2]	Basis [2]
Chloroform	3	0	3	ND	ND	0.0057	0.012	0%	ND	--
Dichlorodifluoromethane	3	1	2	0.0086	0.0086	0.006	0.012	33%	0.0086	Maximum Detected Concentration
Hexane	3	0	3	ND	ND	0.0041	0.0084	0%	0.77	Maximum Detected Concentration (EPA Method 8260B)
Isopropylbenzene (cumene)	3	0	3	ND	ND	0.0057	0.012	0%	ND	--
Methyl Ethyl Ketone	3	1	2	0.0059	0.0059	0.0036	0.007	33%	0.0059	Maximum Detected Concentration
n-Propylbenzene	3	0	3	ND	ND	0.0057	0.012	0%	ND	--
1,2,4-Trimethylbenzene	3	0	3	ND	ND	0.0057	0.012	0%	0.059	Maximum Detected Concentration (EPA Method 8260B)
1,3,5-Trimethylbenzene	3	0	3	ND	ND	0.0057	0.012	0%	0.045	Maximum Detected Concentration (EPA Method 8260B)
Tetrachloroethylene	3	1	2	0.01	0.01	0.0079	0.016	33%	0.01	Maximum Detected Concentration
Tetrahydrofuran	3	1	2	0.013	0.013	0.0036	0.007	33%	0.013	Maximum Detected Concentration
Trichlorofluoromethane	3	1	2	0.0092	0.0092	0.0068	0.013	33%	0.0092	Maximum Detected Concentration
Volatile Organic Compounds (VOCs) and Naphthalene Using EPA Method TO-17										
Naphthalene	26	1	25	0.094	0.094	0.0083	0.05	4%	0.604	Maximum Detected Concentration (EPA Method 8260B)

Notes

1. All compounds detected in at least one soil vapor sample were conservatively selected as COPCs. In addition, all volatile compounds detected in groundwater also were detected in soil vapor except for n-butly benzene, chloroform, and isopropylbenzene; these compounds were detected at less than 28 micrograms per liter in only 1 out of 34 samples analyzed.
2. The maximum detected concentration for soil vapor samples collected adjacent to current buildings was selected as the representative concentration for the current industrial/commercial worker scenario (see Table 11). The maximum detected concentration for soil vapor samples collected within the Station A boundary was selected as the representative concentration for the evaluation of volatile organic compounds (VOCs) and naphthalene in ambient air. Soil vapor concentrations were also evaluated on a point-by-point basis for the intrusion of vapors into future commercial/industrial buildings.

Abbreviations

ND = not detected

TABLE A-11

SUMMARY OF ANALYTICAL RESULTS FOR VOLATILE ORGANIC COMPOUNDS (VOCs) AND NAPHTHALENE IN SOIL VAPOR SAMPLES ANALYZED USING EPA METHOD 8260B [1]

Potrero Power Plant

San Francisco, California

All concentrations are milligrams per liter (µg/L).

Sample Point	Sample Depth (feet bgs)	Sample Date	Purge Volumes	Sample Type	Naphtha-lene	Benzene	Toluene	Ethyl-benzene	Xylenes	n-Butyl-benzene	sec-Butyl-benzene	Chloro-benzene	Chloro-form	Dichloro-difluoro-methane	Hexane	Isopropyl-benzene (cumene)	n-Propyl-benzene	Tetra-chloro-ethylene	1,1,1-Trichloro-ethane	1,2,4-Trimethyl-benzene	1,3,5-Trimethyl-benzene	C5-C8 Aliphatics	C9-C18 Aliphatics	C6-C8 Aromatics	C9-C16 Aromatics
SV10A	3.5	11/4/2009	3	Primary	<0.008	<0.008	**0.016**	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	<0.025	<0.025
		9/15/2010	3	Primary	**0.604**	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	NA	<0.008	<0.008	<0.008	<0.008	<0.2	<0.2	<0.2	**0.604**
SV10B	6.5	11/4/2009	3	Primary	<0.008	<0.008	**0.158**	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	<0.025	<0.025
		9/15/2010	3	Primary	**0.538**	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	NA	<0.008	<0.008	<0.008	<0.008	<0.2	<0.2	<0.2	**0.538**
SV15	4.1	11/5/2009	3	Primary	<0.008	**0.039**	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	**0.039**	<0.025
SV16	5.2	11/3/2009	3	Primary	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	<0.025	<0.025
SV17	4.8	11/3/2009	3	Primary	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	<0.025	<0.025
SV21	5	11/3/2009	3	Primary	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	<0.025	<0.025
SV23	5.5	11/3/2009	3	Primary	**0.21**	**0.272**	**0.368**	<0.008	**0.342**	<0.008	**0.031**	<0.008	<0.008	<0.008	**0.770**	<0.008	<0.020	<0.008	<0.008	**0.059**	<0.008	**20.4**	**12.8**	**0.982**	**0.3**
SV26	5	11/4/2009	3	Primary	<0.008	<0.008	**0.113**	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	<0.025	<0.025
SV27	5.3	11/2/2009	3	Primary	<0.008	<0.008	**0.009**	<0.008	<0.008	<0.008	**0.017**	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	**0.027**	**0.02**	<0.025	<0.025	<0.025	**0.064**
SV28	5.2	11/5/2009	3	Primary	**0.03**	**0.254**	**0.043**	<0.008	**0.23**	<0.008	<0.008	**0.601**	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	**0.527**	**0.631**
SV29	4.5	11/5/2009	3	Primary	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	<0.025	<0.025
SV32	5.2	11/5/2009	3	Primary	<0.008	**0.032**	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	<0.025	<0.025
SV33	4.8	11/2/2009	3	Primary	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	<0.025	<0.025
SV35	4.9	11/2/2009	3	Primary	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	<0.025	<0.025
SV38	5.1	11/2/2009	1	Primary	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	<0.025	<0.025
		11/2/2009	3	Primary	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	<0.025	<0.025
		11/2/2009	7	Primary	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	<0.025	<0.025
SV40	5	11/2/2009	3	Primary	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	<0.025	<0.025
SV51	5.2	11/3/2009	3	Primary	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	<0.025	<0.025
SV54A	3.75	11/3/2009	3	Primary	<0.008	<0.008	**0.032**	<0.008	**0.205**	<0.008	**0.018**	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	**0.031**	**0.025**	<0.025	<0.025	**0.237**	**0.074**
SV54B	7.75	11/3/2009	3	Primary	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	<0.025	<0.025
SV55	5.2	11/3/2009	3	Primary	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	<0.025	<0.025
SV56	5	11/2/2009	1	Primary	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	<0.025	<0.025
		11/2/2009	3	Primary	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	<0.025	<0.025
		11/2/2009	7	Primary	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	<0.025	<0.025
		9/16/2010	1	Primary	**0.334**	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	NA	<0.008	<0.008	<0.008	<0.008	<0.2	<0.2	<0.2	**0.334**
		9/16/2010	3	Primary	**0.180**	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	NA	<0.008	<0.008	<0.008	<0.008	<0.2	<0.2	<0.2	**0.180**
		9/16/2010	10	Primary	**0.122**	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	NA	<0.008	<0.008	<0.008	<0.008	<0.2	<0.2	<0.2	**0.122**
SV57	5.5	11/5/2009	3	Primary	**0.017**	**0.288**	**0.103**	**0.053**	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	**0.444**	<0.025
SV58	5	11/2/2009	3	Primary	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	<0.025	<0.025
SV59	5	11/2/2009	3	Primary	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	<0.025	<0.025
SV60	5	11/5/2009	3	Primary	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	<0.025	<0.025
SV61	5.1	11/3/2009	3	Primary	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	**0.042**	<0.008	<0.020	<0.008	**0.172**	<0.008	<0.008	<0.025	<0.025	<0.025	<0.025
SV63	5.3	11/3/2009	3	Primary	<0.008	<0.008	**0.045**	<0.008	<0.008	<0.008	**0.026**	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	**0.047**	**0.045**	<0.025	<0.025	**0.045**	**0.118**
SV64	4.75	11/3/2009	3	Primary	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	<0.025	<0.025
SV65	5.5	11/3/2009	3	Primary	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.020	<0.008	<0.008	<0.008	<0.008	<0.025	<0.025	<0.025	<0.025
		9/16/2010	1	Primary	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	NA	<0.008	<0.008	<0.008	<0.008	<0.2	<0.2	<0.2	<0.2
		9/16/2010	1	Duplicate	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	NA	<0.008	<0.008	<0.008	<0.008	<0.2	<0.2	<0.2	<0.2
Count					39	39	39	39	39	39	39	39	39	39	39	39	33	39	39	39	39	39	39	39	39
Number of Detects					8	5	9	1	3	0	4	1	0	0	2	0	0	0	1	4	3	1	1	6	10
Number of Non-Detects					31	34	30	38	36	39	35	38	39	39	37	39	33	39	38	35	36	38	38	33	29
Minimum Detection					0.017	0.032	0.009	0.053	0.205	ND	0.017	0.601	ND	ND	0.042	ND	ND	ND	0.172	0.027	0.020	20.400	12.800	0.039	0.064
Maximum Detection					0.604	0.288	0.368	0.053	0.342	ND	0.031	0.601	ND	ND	0.770	ND	ND	ND	0.172	0.059	0.045	20.400	12.800	0.982	0.631
Minimum Reporting Limit					0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.02	0.008	0.008	0.008	0.008	0.025	0.025	0.025	0.025
Maximum Reporting Limit					0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.020	0.008	0.008	0.008	0.008	0.200	0.200	0.200	0.200
Detection Frequency					21%	13%	23%	3%	8%	0%	10%	3%	0%	0%	5%	0%	0%	0%	3%	10%	8%	3%	3%	15%	26%

Notes

1. Soil vapor samples were collected into a glass syringe and analyzed on-site using EPA Method 8260B by JEL.

Abbreviations

bolded results indicate that the analyte was detected above its analytical reporting limit

< = Not detected above the laboratory reporting limit shown

bgs = below ground surface

JEL = Jones Environmental Testing Laboratories, of Fullerton, California

NA = Not analyzed

ND = Not detected

TABLE A-12

SUMMARY OF ANALYTICAL RESULTS FOR VOLATILE ORGANIC COMPOUNDS (VOCs) AND NAPHTHALENE IN SOIL VAPOR SAMPLES ANALYZED USING EPA METHOD TO-15 [1]

Potrero Power Plant

San Francisco, California

All concentrations are milligrams per liter (µg/L).

Sample Point	Sample Depth (feet bgs)	Sample Date	Purge Volumes	Sample Type	Naphtha-lene	Benzene	Toluene	Ethyl-benzene	m,p-Xylenes	o-Xylenes	Acetone	Chloro-benzene	Chloro-form	Dichloro-difluoro-methane	Hexane	Isopropyl-benzene (cumene)	Methyl Ethyl Ketone	n-Propyl-benzene	1,2,4-Trimethyl-benzene	1,3,5-Trimethyl-benzene	Tetra-chloro-ethylene	Tetra-hydro-furan	Trichloro-fluoro-methane
SV40	5	11/2/2009	3	Primary	<0.024	<0.0037	<0.0044	<0.005	<0.005	<0.005	**0.011 J**	<0.0054	<0.0057	**0.0086**	<0.0041	<0.0057	**0.0059**	<0.0057	<0.0057	<0.0057	<0.0079	**0.013**	**0.0092**
SV55	5.2	11/3/2009	3	Primary	<0.050	<0.0076	**0.026**	<0.01	**0.016**	<0.01	<0.023	<0.011	<0.012	<0.012	<0.0084	<0.012	<0.007	<0.012	<0.012	<0.012	<0.016	<0.007	<0.013
SV65	5.5	9/16/2010	1	Primary	<0.025	<0.0039	<0.0046	<0.0052	<0.0052	<0.0052	**0.02**	<0.0056	<0.0059	<0.006	<0.0043	<0.0059	<0.0036	<0.0059	<0.0059	<0.0059	**0.01**	<0.0036	<0.0068
				Count	3	3	3	3	3	3	2	3	3	3	3	3	3	3	3	3	3	3	3
				Number of Detects	0	0	1	0	1	0	1	0	0	1	0	0	1	0	0	0	1	1	1
				Number of Non-Detects	3	3	2	3	2	3	1	3	3	2	3	3	2	3	3	3	2	2	2
				Minimum Detection	ND	ND	0.026	ND	0.016	ND	0.020	ND	ND	0.009	ND	ND	0.006	ND	ND	ND	0.010	0.013	0.009
				Maximum Detection	ND	ND	0.026	ND	0.016	ND	0.020	ND	ND	0.009	ND	ND	0.006	ND	ND	ND	0.010	0.013	0.009
				Minimum Reporting Limit	0.024	0.0037	0.0044	0.005	0.005	0.005	0.023	0.0054	0.0057	0.006	0.0041	0.0057	0.0036	0.0057	0.0057	0.0057	0.0079	0.0036	0.0068
				Maximum Reporting Limit	0.050	0.008	0.005	0.010	0.005	0.010	0.023	0.011	0.012	0.012	0.008	0.012	0.007	0.012	0.012	0.012	0.016	0.007	0.013
				Detection Frequency	0%	0%	33%	0%	33%	0%	50%	0%	0%	33%	0%	0%	33%	0%	0%	0%	33%	33%	33%

Notes

1. Soil vapor samples were collected into a Summa™ canister by AMEC Geomatrix, Inc. and analyzed using U.S. EPA Method TO-15 by Air Toxics.

Abbreviations

bolded results indicate that the analyte was detected above its analytical reporting limit

< = not detected above the laboratory reporting limit shown

Air Toxics = Air Toxics, Limited, of Folsom, California

bgs = below ground surface

MTBE = methyl tert-butyl ether

NA = not analyzed

TABLE A-13

SUMMARY OF ANALYTICAL RESULTS FOR VOLATILE ORGANIC COMPOUNDS (VOCs) AND NAPHTHALENE IN SOIL VAPOR SAMPLES [1]

Potrero Power Plant
San Francisco, California

All concentrations are milligrams per liter (µg/L).

Sample Point	Sample Depth (feet bgs)	Sample Date	Purge Volumes	Sample Type	Naphtha-lene	2-Methyl Naphtha-lene
SV10A	3.5	11/4/2009	3	Primary	<0.0083	<0.0083
SV10A	3.5	11/4/2009	3	Duplicate	<0.0083	<0.0083
SV10B	6.5	11/4/2009	3	Primary	<0.010	<0.010
SV15	4.1	11/5/2009	3	Primary	<0.0094	<0.0094
SV16	5.2	11/3/2009	3	Primary	<0.010	<0.010
SV17	4.8	11/3/2009	3	Primary	<0.0091	<0.0091
SV21	5	11/3/2009	3	Primary	<0.010	<0.010
SV23	5.5	11/3/2009	3	Primary	<0.050	<0.050
SV27	5.3	11/2/2009	3	Primary	<0.010	<0.010
SV29	4.5	11/5/2009	3	Primary	<0.010	<0.010
SV32	5.2	11/5/2009	3	Primary	**0.094**	<0.010
SV33	4.8	11/2/2009	3	Primary	<0.0099	<0.0099
SV35	4.9	11/2/2009	3	Primary	<0.010	<0.010
SV38	5.1	11/2/2009	7	Primary	<0.0091	<0.0091
SV40	5	11/2/2009	3	Primary	<0.0099	<0.0099
SV40	5	11/2/2009	3	Duplicate	<0.0099	<0.0099
SV51	5.2	11/3/2009	3	Primary	<0.0092	<0.0092
SV54A	3.8	11/3/2009	3	Primary	<0.010	<0.010
SV54B	7.8	11/3/2009	3	Primary	<0.010	<0.010
SV55	5.2	11/3/2009	3	Primary	<0.010	<0.010
SV55	5.2	11/3/2009	3	Primary	<0.010	<0.010
SV56	5	11/2/2009	3	Primary	<0.010	<0.010
SV58	5	11/2/2009	3	Replicate	<0.010	<0.010
SV59	5	11/2/2009	3	Primary	<0.010	<0.010
SV60	5	11/5/2009	3	Primary	<0.010	<0.010
SV61	5.1	11/3/2009	3	Primary	<0.0090	<0.0090
SV63	5.3	11/3/2009	3	Primary	<0.0095	<0.0095
SV64	4.75	11/3/2009	3	Primary	<0.010	<0.010
SV65	5.5	11/3/2009	3	Primary	<0.0099	<0.0099
				Count	26	26
				Number of Detects	1	0
				Number of Non-Detects	25	26
				Minimum Detection	0.094	0.000
				Maximum Detection	0.094	0.000
				Minimum Reporting Limit	0.0083	0.0083
				Maximum Reporting Limit	0.050	0.050
				Detection Frequency	4%	0%

Notes

1. Soil vapor samples were collected into a sorbent tube by AMEC Geomatrix, Inc., and analyzed at a fixed laboratory using EPA Method TO-17 by Air Toxics, Ltd.

Abbreviations

bolded results indicate that the analyte was detected above its analytical reporting limit
< = Not detected above the laboratory reporting limit shown
Air Toxics = Air Toxics, Limited, of Folsom, California

TABLE A-14

SUMMARY OF ANALYTICAL RESULTS FOR VOLATILE ORGANIC COMPOUNDS (VOCs) AND NAPHTHALENE IN SOIL VAPOR SAMPLES [1]

Potrero Power Plant
San Francisco, California

All concentrations are milligrams per liter (µg/L).

Sample Point	Sample Depth (feet bgs)	Sample Date	Purge Volumes	Analytical Method	Naphtha-lene	Benzene	Toluene	Ethyl-benzene	Xylenes	m,p-Xylenes	Acetone	n-Butyl-benzene	sec-Butyl-benzene	Chloro-benzene	Chloro-form	Dichloro-difluoro-methane	Hexane	Isopropyl-benzene (cumene)	Methyl Ethyl Ketone	n-Propyl-benzene	1,1,1-Trichloro-ethane	1,2,4-Trimethyl-benzene	1,3,5-Trimethyl-benzene	Tetra-chloro-ethylene	Tetra-hydro-furan	Trichloro-fluoro-methane
SV10A	3.5	11/4/2009	3	8260B	<0.008	<0.008	**0.016**	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
		11/4/2009	3	TO-17	<0.0083	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		11/4/2009	3	TO-17	<0.0083	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		9/15/2010	3	8260B	**0.604**	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	--	--
SV10B	6.5	11/4/2009	3	8260B	<0.008	<0.008	**0.158**	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
		11/4/2009	3	TO-17	<0.010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		9/15/2010	3	8260B	**0.538**	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	--	--
SV15	4.1	11/5/2009	3	8260B	<0.008	**0.039**	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
		11/5/2009	3	TO-17	<0.0094	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV16	5.2	11/3/2009	3	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
		11/3/2009	3	TO-17	<0.010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV17	4.8	11/3/2009	3	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
		11/3/2009	3	TO-17	<0.0091	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV21	5	11/3/2009	3	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
		11/3/2009	3	TO-17	<0.010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV23	5.5	11/3/2009	3	8260B	**0.21**	**0.272**	**0.368**	<0.008	**0.342**	--	--	<0.008	**0.031**	<0.008	<0.008	<0.008	**0.770**	<0.008	--	<0.020	<0.008	**0.059**	<0.008	<0.008	--	--
		11/3/2009	3	TO-17	<0.050	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV26	5	11/4/2009	3	8260B	<0.008	<0.008	**0.113**	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
SV27	5.3	11/2/2009	3	8260B	<0.008	<0.008	**0.009**	<0.008	<0.008	--	--	<0.008	**0.017**	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	**0.027**	**0.02**	<0.008	--	--
		11/2/2009	3	TO-17	<0.010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV28	5.2	11/5/2009	3	8260B	**0.03**	**0.254**	**0.043**	<0.008	**0.23**	--	--	<0.008	<0.008	**0.601**	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
SV29	4.5	11/5/2009	3	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
		11/5/2009	3	TO-17	<0.010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV32	5.2	11/5/2009	3	8260B	<0.008	**0.032**	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
		11/5/2009	3	TO-17	**0.094**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV33	4.8	11/2/2009	3	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
		11/2/2009	3	TO-17	<0.0099	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV35	4.9	11/2/2009	3	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
		11/2/2009	3	TO-17	<0.010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV38	5.1	11/2/2009	1	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
		11/2/2009	3	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
		11/2/2009	7	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
		11/2/2009	7	TO-17	<0.0091	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV40	5	11/2/2009	3	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
		11/2/2009	3	TO-17	<0.0099	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		11/2/2009	3	TO-17	<0.0099	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		11/2/2009	3	TO-15	<0.024	<0.0037	<0.0044	<0.005	--	<0.005	**0.011 J**	--	--	<0.0054	<0.0057	**0.0086**	<0.0041	<0.0057	**0.0059**	<0.0057	--	<0.0057	<0.0057	<0.0079	**0.013**	**0.0092**
SV51	5.2	11/3/2009	3	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
		11/3/2009	3	TO-17	<0.0092	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV54A	3.75	11/3/2009	3	8260B	<0.008	<0.008	**0.032**	<0.008	**0.205**	--	--	<0.008	**0.018**	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	**0.031**	**0.025**	<0.008	--	--
		11/3/2009	3	TO-17	<0.010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV54B	7.75	11/3/2009	3	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
		11/3/2009	3	TO-17	<0.010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV55	5.2	11/3/2009	3	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
		11/3/2009	3	TO-17	<0.010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		11/3/2009	3	TO-17	<0.010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		11/3/2009	3	TO-15	<0.050	<0.0076	**0.026**	<0.01	--	**0.016**	<0.023	--	--	<0.011	<0.012	<0.012	<0.0084	<0.012	<0.007	<0.012	--	<0.012	<0.012	<0.016	<0.007	<0.013
SV56	5	11/2/2009	1	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
		11/2/2009	3	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
		11/2/2009	7	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
		11/2/2009	3	TO-17	<0.010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		9/16/2010	1	8260B	**0.334**	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	--	--
		9/16/2010	3	8260B	**0.180**	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	--	--
		9/16/2010	10	8260B	**0.122**	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	--	--
SV57	5.5	11/5/2009	3	8260B	**0.017**	**0.288**	**0.103**	**0.053**	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
SV58	5	11/2/2009	3	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
		11/2/2009	3	TO-17	<0.010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE A-14

SUMMARY OF ANALYTICAL RESULTS FOR VOLATILE ORGANIC COMPOUNDS (VOCs) AND NAPHTHALENE IN SOIL VAPOR SAMPLES [1]

Potrero Power Plant

San Francisco, California

All concentrations are milligrams per liter (µg/L).

Sample Point	Sample Depth (feet bgs)	Sample Date	Purge Volumes	Analytical Method	Naphtha-lene	Benzene	Toluene	Ethyl-benzene	Xylenes	m,p-Xylenes	Acetone	n-Butyl-benzene	sec-Butyl-benzene	Chloro-benzene	Chloro-form	Dichloro-difluoro-methane	Hexane	Isopropyl-benzene (cumene)	Methyl Ethyl Ketone	n-Propyl-benzene	1,1,1-Trichloro-ethane	1,2,4-Trimethyl-benzene	1,3,5-Trimethyl-benzene	Tetra-chloro-ethylene	Tetra-hydro-furan	Trichloro-fluoro-methane
SV59	5	11/2/2009	3	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
		11/2/2009	3	TO-17	<0.010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV60	5	11/5/2009	3	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
		11/5/2009	3	TO-17	<0.010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV61	5.1	11/3/2009	3	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	**0.042**	<0.008	--	<0.020	**0.172**	<0.008	<0.008	<0.008	--	--
		11/3/2009	3	TO-17	<0.0090	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV63	5.3	11/3/2009	3	8260B	<0.008	<0.008	**0.045**	<0.008	<0.008	--	--	<0.008	**0.026**	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	**0.047**	**0.045**	<0.008	--	--
		11/3/2009	3	TO-17	<0.0095	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV64	4.75	11/3/2009	3	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
		11/3/2009	3	TO-17	<0.010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV65	5.5	11/3/2009	3	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.020	<0.008	<0.008	<0.008	<0.008	--	--
		11/3/2009	3	TO-17	<0.0099	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		9/16/2010	1	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	--	--
		9/16/2010	1	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008	<0.008	--	--
		9/16/2010	1	TO-15	<0.025	<0.0039	<0.0046	<0.0052	<0.0046	<0.0052	**0.02**	--	--	--	--	--	<0.0043	<0.0059	<0.0036	<0.0059	--	<0.0059	<0.0059	**0.01**	<0.0036	<0.0068

Notes

1. Soil vapor samples were (1) collected into a glass syringe and analyzed on-site using U.S. EPA Method 8260B by JEL, (2) collected into a sorbent tube by AMEC Geomatrix, Inc., and analyzed at a fixed laboratory using U.S. EPA Method TO-17 by Air Toxics, and (3) collected into a Summa™ canister by AMEC Geomatrix, Inc. and analyzed using U.S. EPA Method TO-15 by Air Toxics.

Abbreviations

bolded results indicate that the analyte was detected above its analytical reporting limit

< = Not detected above the laboratory reporting limit shown

> = Concentration is greater than the value presented due to target analyte breakthrough

-- = Not analyzed

Air Toxics = Air Toxics, Limited, of Folsom, California

bgs = below ground surface

JEL = Jones Environmental Testing Laboratories, of Fullerton, California

ATTACHMENT A2
Unit 3 Soil Vapor Data

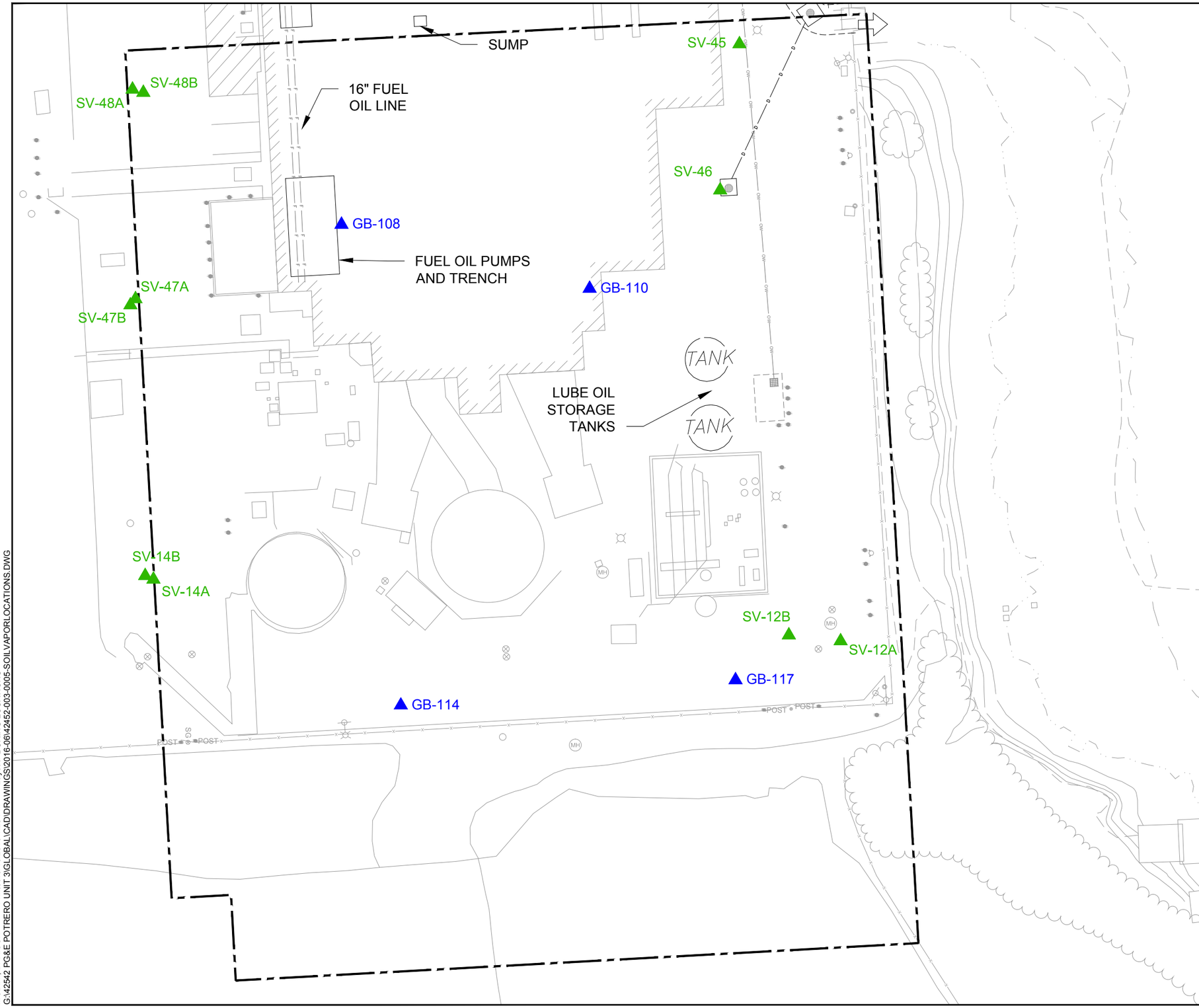
www.haleyaldrich.com

FORMER UNIT 3 POWER GENERATION FACILITY INVESTIGATION REPORT AND HUMAN HEALTH RISK ASSESSMENT POTRERO POWER PLANT SITE SAN FRANCISCO, CALIFORNIA

by Haley & Aldrich, Inc.
Oakland, California

for Pacific Gas and Electric Company
San Ramon, California

File No. 42542-003
June 2017



LEGEND

- SV-04 ▲ 2015 SOIL GAS SAMPLING LOCATION
- SV-04 ▲ 2009/2010 SOIL GAS SAMPLING LOCATION
- PDTP-2 PRE-DESIGN INVESTIGATION TEST PIT LOCATION
- UNIT 3 AREA BOUNDARY
- D EXISTING STORMWATER DRAINAGE
- FS EXISTING FIRE SUPPRESSION UTILITIES
- OW EXISTING OILY WATER LINE
- NPW EXISTING PROCESS WATER UTILITIES (DECHLORINATION AND SCREEN WASH WATER LINES)
- F APPROXIMATE LOCATION OF FUEL OIL LINES

NOTES:

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE

N

0 30 60

SCALE IN FEET

HALEY ALDRICH

PACIFIC GAS AND ELECTRIC COMPANY (PG&E)
UNIT 3 POWER GENERATION AREA
POTRERO POWER PLANT
SAN FRANCISCO, CALIFORNIA

SOIL VAPOR SAMPLE LOCATIONS-
UNIT 3 AREA

SCALE: AS SHOWN
MAY 2016

FIGURE 6

MOBINI, DARIUSH Printed:5/18/2016 1:23 PM Layout: BORING LOCATIONS
G:\42542 PG&E POTRERO UNIT 3\GLOBAL\CAD\DRAWINGS\2016-06\42452-003-0005-SOILVAPORLOCATIONS.DWG

TABLE 12

RESULTS FOR VOLATILE ORGANIC COMPOUNDS IN SOIL VAPOR[1]

FORMER UNIT 3 POWER GENERATION FACILITY INVESTIGATION AND HUMAN HEALTH RISK ASSESSMENT REPORT

POTRERO POWER PLANT SITE

SAN FRANCISCO, CALIFORNIA

Results reported in micrograms per cubic meter (µg/m^3)

Location ID	Sample Depth (feet bgs)	Sample Date	Benzene	Toluene	o-Xylene	PCE	TCE	1,1,1-TCA	Freon 12	Acetone	Carbon Disulfide	Chloroform	Methylene Chloride	All Other VOCs	Helium[2] (%)
Shallow Samples Within or Adjacent to Unit 3 Area															
GB-101	5.0	12/29/2015	<1.3	<1.5	<1.7	<2.7	<2.1	<1.6	**20**	<12 [1]	**5.1** [2]	**3.0**	<1.4	ND	--
GB-102	5.0	12/28/2015	<1.3	**130**	<1.7	**6.5**	<2.1	<1.6	**14**	<12	<2.5	<1.5	<1.4	ND	ND
GB-105	5.0	12/29/2015	<1.3	**14**	<1.7	< 2.7	<2.1	**3.3**	**7.6**	<12	**4.1**	**4.1**	<1.4	ND	<0.019
GB-108	5.0	12/29/2015	**1.4**	**85**	**1.8**	**43**	<2.1	**3.8**	**4.4**	**12**	**7.3**	<1.5	**4.8**	ND	ND
GB-110	5.0	12/28/2015	<1.3	<1.5	<1.7	**5.5**	**30**	<1.6	**2.0**	<12	<2.5	<1.5	<1.4	ND	ND
GB-114	5.0	12/28/2015	<1.3	<1.5	<1.7	**7.2**	<2.1	<1.6	**2.6**	<12	<2.5	**2.6**	<1.4	ND	ND
GB-114 DUP	5.0	12/28/2015	<1.3	**2.0**	<1.7	**7.0**	<2.1	<1.6	**2.6**	<12	<2.5	**2.5**	<1.4	ND	ND
GB-117	5.0	12/28/2015	<1.3	<1.5	<1.7	**4.3**	<2.1	**4.3**	<2.0	<12	<2.5	<1.5	<1.4	ND	<0.19
Commercial/Industrial ESL[3]			420	1,300,000	440,000	2,100	3,000	4,400,000	440,000 [(4)]	140,000,000	3,100,000 [(4)]	530	12,000	Various	--

Notes:

1. Soil vapor samples were collected by Haley & Aldrich, Inc. into 1-liter Summa Canisters and analyzed by TestAmerica, Inc. of West Sacramento, California for volatile organic compounds (VOCs) using USEPA Method TO-15.
2. Helium was applied as a leak test compound. To confirm the results of field measurements, two Summa canister samples were analyzed by TestAmerica, Inc. for helium using ASTM D-1946.
3. California Water Boards Environmental Screening Levels (ESLs); Table SG-1. Soil Gas Screening Levels for Evaluation of Potential Vapor Intrusion, Commercial/Industrial, Lowest (Feb. 2016).
4. ESLs are not available for Freon 12 and carbon disulfide. Therefore, the screening level presented was calculated by applying the Water Board default soil vapor attenuation factor (0.001; Water Board, 2016) for commerical/industrial buildings to the industrial Regional Screening Level (RSL) for air (USEPA, 2016). This RSL is endorsed by the DTSC (2016).

Abbreviations:

bold indicates the compound was detected in the sample.

"<" indicates the compound was not detected above the laboratory reporting limit shown.

bgs = below ground surface

ND = not detected (reporting limit varies)

Freon-12 = dichlorodifluoromethane

PCE = tetrachloroethene

1,1,1-TCA = 1,1,1-trichloroethane

TCE = trichloroethene

References:

California Department of Toxic Subtances Control (DTSC) Human and Ecological Risk (HERO), 2016, HHRA Note Number 3, January.

California Regional Water Quality Control Board, San Francisco Bay Region (Water Board), 2016, User's Guide: Derivation and Application of Environmental Screening Levels (ESLs), Interim Final, February.

United States Environmental Protection Agency (USEPA), 2016, Regional Screeening Levels for Chemical Contaminants at Superfund Sites, May. www.epa.gov/risk/regional-screening-levels-rsls-generic-tables-may-2016.

APPENDIX F TABLE F-18
RESULTS FOR VOLATILE ORGANIC COMPOUNDS IN SOIL VAPOR [1]
FORMER UNIT 3 POWER GENERATION FACILITY INVESTIGATION AND HUMAN HEALTH RISK ASSESSMENT REPORT
POTRERO POWER PLANT SITE
SAN FRANCISCO, CALIFORNIA

Results reported in micrograms per cubic meter (µg/m^3)

Location ID	Sample Depth (feet bgs)	Sample Date	Sample Type	Volatile Organic Compounds																			Semivolatile Organic Compounds	
				Analytical Method	Acetone	Benzene	Sec-butyl-benzene	Carbon Disulfide	Chloro-form	Ethyl-benzene	Freon 12	Methylene Chloride	PCE	TCE	1,1,1-TCA	Toluene	1,2,4-Trimethyl-benzene	o-Xylene	Xylenes	Naph-thalene	C6-C8 Aromatics	C9-C16 Aromatics	Naphtha-lene	2-Methyl-naphthalene
AMEC, 2010 [2]																								
SV-12A	3.5 - 4.0	11/04/2009	Primary	8260B	--	**55**	<8.0	--	<8.0	**49**	<8.0	<8.0	<8.0	<8.0	<8.0	**38**	<8.0	--	**146**	**151**	**288**	**151**	<9.5	<9.5
		09/16/2010	Primary	8260B	--	<8.0	--	--	--	<8.0	--	--	<8.0	--	--	<8.0	<8.0	--	<8.0	**72**	<200	**72**	--	--
SV-12B	7.3 - 7.8	11/04/2009	Primary	8260B	--	**96**	<8.0	--	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	**51**	<8.0	--	<8.0	**58**	**147**	**58**	<9.4	<9.4
		09/16/2010	Primary	8260B	--	<8.0	--	--	--	<8.0	--	--	<8.0	--	--	<8.0	<8.0	--	<8.0	**59**	<200	**59**	--	--
SV-14A	3.5 - 4.0	11/04/2009	Primary	8260B	--	**47**	<8.0	--	<8.0	**102**	<8.0	<8.0	<8.0	<8.0	<8.0	**56**	**39**	--	**259**	**83**	**464**	**122**	<9.6	<9.6
SV-14B	7.75 - 8.25	11/04/2009	Primary	8260B	--	**48**	<8.0	--	**46**	**50**	<8.0	<8.0	<8.0	<8.0	<8.0	**36**	<8.0	--	**146**	**113**	**280**	**113**	<10	<10
SV-45	4.1 - 4.6	11/04/2009	Primary	8260B	--	**8.0**	<8.0	--	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	**32**	<8.0	--	<8.0	<8.0	**40**	<25	<9.9	<9.9
SV-46	3.4 - 3.9	11/04/2009	Primary	8260B	--	**97**	**42**	--	<8.0	<20	<8.0	<8.0	<8.0	<8.0	<8.0	**102**	**83**	--	**59**	<8.0	**258**	**125**	--	--
		11/04/2009	Duplicate	8260B	--	**62**	<8.0	--	<8.0	<20	<8.0	<8.0	<8.0	<8.0	<8.0	**59**	**86**	--	**51**	<8.0	**172**	**86**	<9.9	<9.9
SV-47A	3.5 - 4.0	11/05/2009	Primary	8260B	--	<8.0	<8.0	--	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	**22**	<8.0	--	<8.0	<8.0	**22**	<25	<8.8	<8.8
SV-47B	7.75 - 8.25	11/05/2009	Primary	8260B	--	<8.0	<8.0	--	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	**22**	<8.0	--	<8.0	<8.0	**22**	<25	<10	<10
SV-48A	3.5 - 4.0	11/04/2009	Primary	8260B	--	**57**	<8.0	--	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	--	<8.0	**73**	**57**	**73**	<9.9	<9.9
SV-48B	7.5 - 8.0	11/04/2009	Primary	8260B	--	**49**	<8.0	--	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	--	<8.0	**119**	**49**	**119**	<9.7	<9.7
Haley & Aldrich, 2015 [3]																								
GB-108	5.0	12/29/2015	Primary	TO-15	**12**	**1.4**	--	**7.3**	<1.5	<1.7	**4.4**	**4.8**	**43**	<2.1	**3.8**	**85**	<3.9	**1.8**	--	<4.2	--	--	--	--
GB-110	5.0	12/28/2015	Primary	TO-15	<12	<1.3	--	<2.5	<1.5	<1.7	**2.0**	<1.4	**5.5**	**30**	<1.6	<1.5	<3.9	<1.7	--	<4.2	--	--	--	--
GB-114	5.0	12/28/2015	Primary	TO-15	<12	<1.3	--	<2.5	**2.6**	<1.7	**2.6**	<1.4	**7.2**	<2.1	<1.6	<1.5	<3.9	<1.7	--	<4.2	--	--	--	--
		12/28/2015	Duplicate	TO-15	<12	<1.3	--	<2.5	**2.5**	<1.7	**2.6**	<1.4	**7.0**	<2.1	<1.6	**2.0**	<3.9	<1.7	--	<4.2	--	--	--	--
GB-117	5.0	12/28/2015	Primary	TO-15	<12	<1.3	--	<2.5	<1.5	<1.7	<2.0	<1.4	**4.3**	<2.1	**4.3**	<1.5	<3.9	<1.7	--	<4.2	--	--	--	--

Notes:
1. Only the analytical results for detected volatile organic compounds (VOCs) are presented.
2. Soil vapor samples were collected into a sorbent tube and analyzed for VOCs using USEPA Method 8260B with an onsite mobile laboratory (Jones Environmental Testing Laboratories) and into sorbent tubes and analyzed for naphthalene and 2-methylnaphthalene using USEPA Method TO-17 (Air Toxics, Ltd.) (AMEC, 2010a, 2010b).
3. Soil vapor samples were collected by Haley & Aldrich, Inc. and analyzed by TestAmerica Laboratories of Pleasanton, California for VOCs using USEPA Method TO-15.

Abbreviations:
bold indicates the compound was detected in the sample.
"--" indicates the compound was not analyzed.
"<" indicates the compound was not detected above the laboratory reporting limit shown.
bgs = below ground surface
Freon-12 = dichlorodifluoromethane
PCE = tetrachloroethene
TCE = trichloroethene
1,1,1-TCA = 1,1,1-trichloroethane
USEPA = United States Environmental Protection Agency

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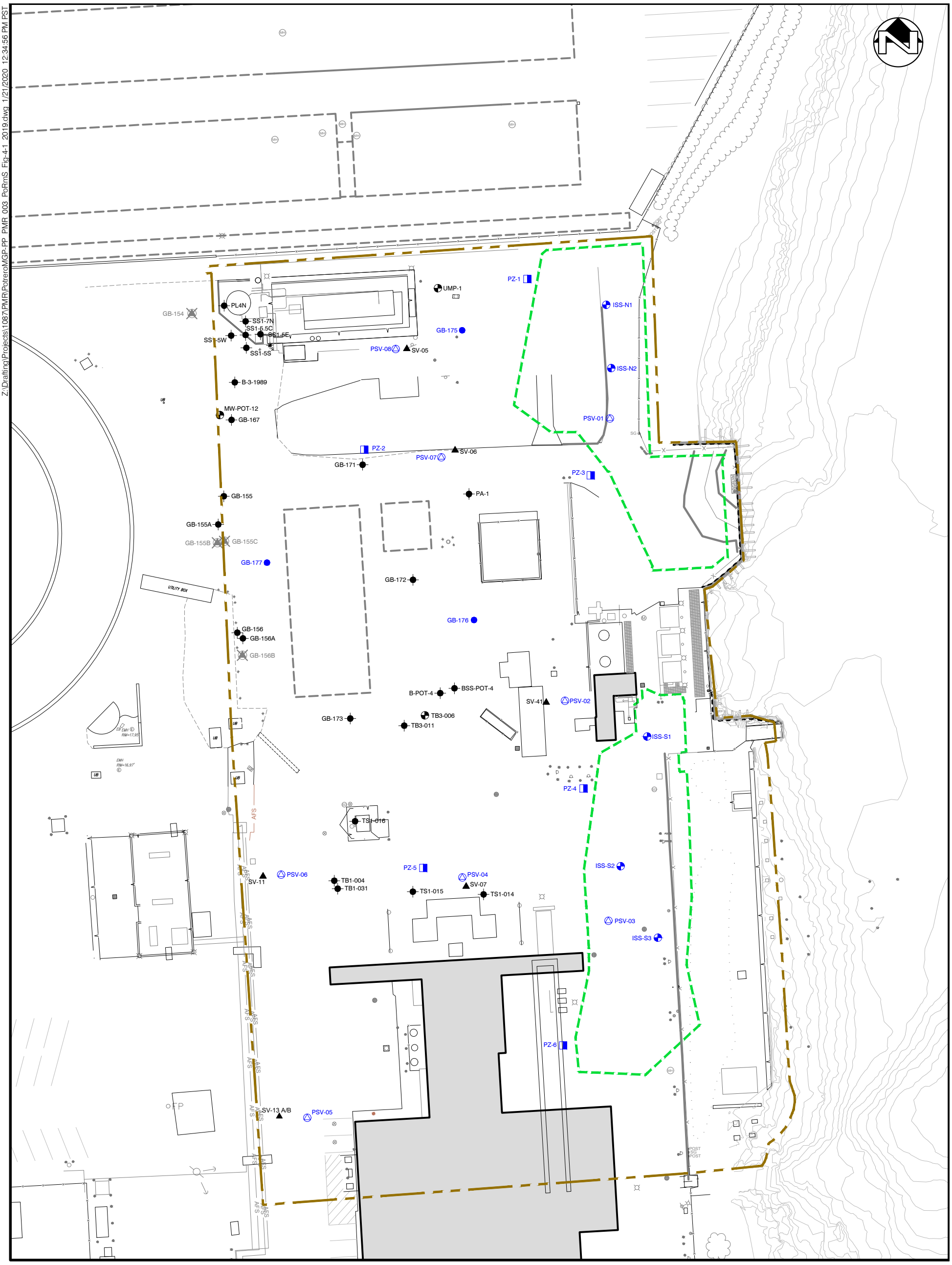

EXPLANATION

- PIEZOMETER (TPG, 2019)
- GROUNDWATER MONITORING WELL (TPG, 2019)
- SOIL VAPOR PROBE (TPG, 2019)
- BORING (TPG, 2019)
- GROUNDWATER MONITORING WELL
- PREVIOUS SOIL VAPOR PROBE
- PREVIOUS BORING
- DESTROYED SOIL VAPOR WELL
- NORTHEAST AREA BOUNDARY
- ISS AREA
- FORMER BUILDING
- EXISTING BUILDING

0 50 100 FEET
APPROXIMATE SCALE

NOTES:
1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. BASE MAP SOURCED FROM: RJL & ASSOCIATE, 2015 AND HALEY & ALDRICH 2018

FIGURE 3-1

SAMPLE LOCATIONS REPRESENTATIVE OF POST-REMEDIATION CONDITIONS

POTRERO POWER PLANT - NORTHEAST AREA
SAN FRANCISCO, CALIFORNIA

TERRA PACIFIC GROUP
Environmental Engineering, Consulting, and Construction

Analytical results from sample locations PSV-03 through PSV-06 within the Northeast Area also were evaluated and considered for the Unit 3 Area specific vapor intrusion health risk assessment given the proximity of these locations to the northern boundary of Unit 3.

POST-REMEDIATION PERFORMANCE MONITORING AND CONDITIONS REPORT NORTHEAST AREA OF THE POTRERO POWER PLANT SITE

San Francisco, California

March 31, 2020

prepared for

Pacific Gas and Electric Company®
3401 Crow Canyon Road
San Ramon, California 94583

prepared by

TERRA PACIFIC GROUP
Environmental Engineering, Consulting, and Construction
13900 Alton Parkway, Suite 122
Irvine, California 92618

Project No. PGE-1087-1001

Analytical data for the Unit 3 Area vapor intrusion risk assessment.

Analytical results from sample locations PSV-03 through PSV-06 were evaluated and considered for the Unit 3 Area vapor intrusion health risk assessment given their proximity to the northern boundary of Unit 3.

Table 5-6
Summary of Detected VOCs in Soil Vapor Samples
Potrero Power Plant Site - Northeast Area
San Francisco, California

Boring/Soil Vapor Probe ID	PSV-01	PSV-02	PSV-03	PSV-04		PSV-05	
Sample ID	PSV-01-2.25	PSV-02-5.0	PSV-03-3.0	PSV-04-4.0	PSV-04-8.0	PSV-05-4.0	PSV-05-8.0
Date Sampled	5/29/19	5/29/19	5/29/19	5/29/19	5/29/19	5/29/19	5/29/19
Sample Depth (feet bgs)	2.25	5	3	4	8	4	8
1,2,4-Trimethylbenzene	<3.9	<3.9	<3.9	<3.9	<0.98	<3.9	<3.9
2,2,4-Trimethylpentane	<3.7	<3.7	<3.7	<3.7	<0.93	<3.7	<3.7
Acetone	<48	<48	<48	<48	<12	<48	<48
Benzene	<2.6	<2.6	2.6	<2.6	<0.64	<2.6	<2.6
Carbon disulfide	34	<6.2	11	<6.2	<1.6	<6.2	25
Chlorobenzene	<3.7	<3.7	<3.7	<3.7	<0.92	<3.7	<3.7
Chloroform	7.1	<3.9	4.7	<3.9	<0.98	<3.9	<3.9
Cyclohexane	<2.8	<2.8	<2.8	<2.8	<0.69	<2.8	<2.8
Dichlorodifluoromethane	<9.9	10	14	16	3.1	<9.9	<9.9
Ethylbenzene	<3.5	<3.5	<3.5	<3.5	<0.87	<3.5	<3.5
m,p-Xylene	<8.7	<8.7	<8.7	<8.7	<2.2	<8.7	<8.7
Methyl Ethyl Ketone	<5.9	<5.9	<5.9	<5.9	<1.5	<5.9	<5.9
Naphthalene	<10	<10	21	<10	<2.6	<10	<10
n-Hexane	<2.8	<2.8	<2.8	<2.8	<0.70	<2.8	<2.8
n-Propylbenzene	<3.9	<3.9	<3.9	<3.9	<0.98	<3.9	<3.9
sec-Butylbenzene	<4.4	<4.4	<4.4	<4.4	<1.1	<4.4	<4.4
Tetrachloroethene	25	<5.4	130	<5.4	<1.4	<5.4	<5.4
Toluene	<3.0	<3.0	<3.0	<3.0	0.75	<3.0	<3.0
Trichloroethene	8.3	<4.3	32	<4.3	<1.1	<4.3	<4.3
Trichlorofluoromethane	<4.5	<4.5	16	<4.5	<1.1	<4.5	<4.5
Xylene, o-	<3.5	<3.5	<3.5	<3.5	<0.87	<3.5	<3.5
Other VOCs	ND	ND	ND	ND	ND	ND	ND

Analytical data for the Unit 3 Area vapor intrusion risk assessment.

Analytical results from sample locations PSV-03 through PSV-06 were evaluated and considered for the Unit 3 Area vapor intrusion health risk assessment given their proximity to the northern boundary of Unit 3.

Table 5-6
Summary of Detected VOCs in Soil Vapor Samples
Potrero Power Plant Site - Northeast Area
San Francisco, California

Boring/Soil Vapor Probe ID	PSV-06		PSV-07		PSV-08	
Sample ID	PSV-06-4.0	PSV-06-8.0	PSV-07-4.0	PSV-07-8.0	PSV-08-4.0	DUP-052919
Date Sampled	5/29/19	5/29/19	5/29/19	5/29/19	5/29/19	5/29/19
Sample Depth (feet bgs)	4	8	4	8	4	4
1,2,4-Trimethylbenzene	<3.9	<3.9	<5,900	290	<3.9	<3.9
2,2,4-Trimethylpentane	<3.7	<3.7	<5,600	2,000	<3.7	<3.7
Acetone	<48	<48	<71,000	<3,100	110	120
Benzene	7.8	150	170,000	18,000	11	17
Carbon disulfide	11	<6.2	<9,300	<410	34	55
Chlorobenzene	<3.7	<3.7	<5,500	1,400	<3.6	<3.7
Chloroform	<3.9	<3.9	<5,900	<260	6.8	9.1
Cyclohexane	<2.8	3.1	<4,100	2,900	6.1	8.9
Dichlorodifluoromethane	<9.9	<9.9	<15,000	<660	<9.7	<9.9
Ethylbenzene	<3.5	5.9	12,000	1,600	<3.4	<3.5
m,p-Xylene	<8.7	<8.7	<13,000	1,200	<8.5	<8.7
Methyl Ethyl Ketone	<5.9	<5.9	<8,800	<390	12	11
Naphthalene	<10	<10	330,000	55,000	43	51
n-Hexane	<2.8	<2.8	<4,200	<190	4.0	<2.8
n-Propylbenzene	<3.9	<3.9	<5,900	780	<3.9	<3.9
sec-Butylbenzene	<4.4	<4.4	<6,600	780	<4.3	<4.4
Tetrachloroethene	<5.4	<5.4	<8,100	<360	<5.3	19
Toluene	<3.0	9.2	11,000	1,700	5.1	7.8
Trichloroethene	<4.3	<4.3	<6,400	<280	<4.2	<4.3
Trichlorofluoromethane	<4.5	<4.5	<6,700	<300	<4.4	<4.5
Xylene, o-	<3.5	<3.5	<5,200	650	<3.4	<3.5
Other VOCs	ND	ND	ND	ND	ND	ND

Notes:
All analytical results are presented in micrograms per cubic meter (µg/m3)
Detected results are presented in **bold**
"<#" indicates that analyte was not detected at or above stated laboratory reporting limit
DUP = duplicate
ND = Not detected
VOC = volatile organic compounds

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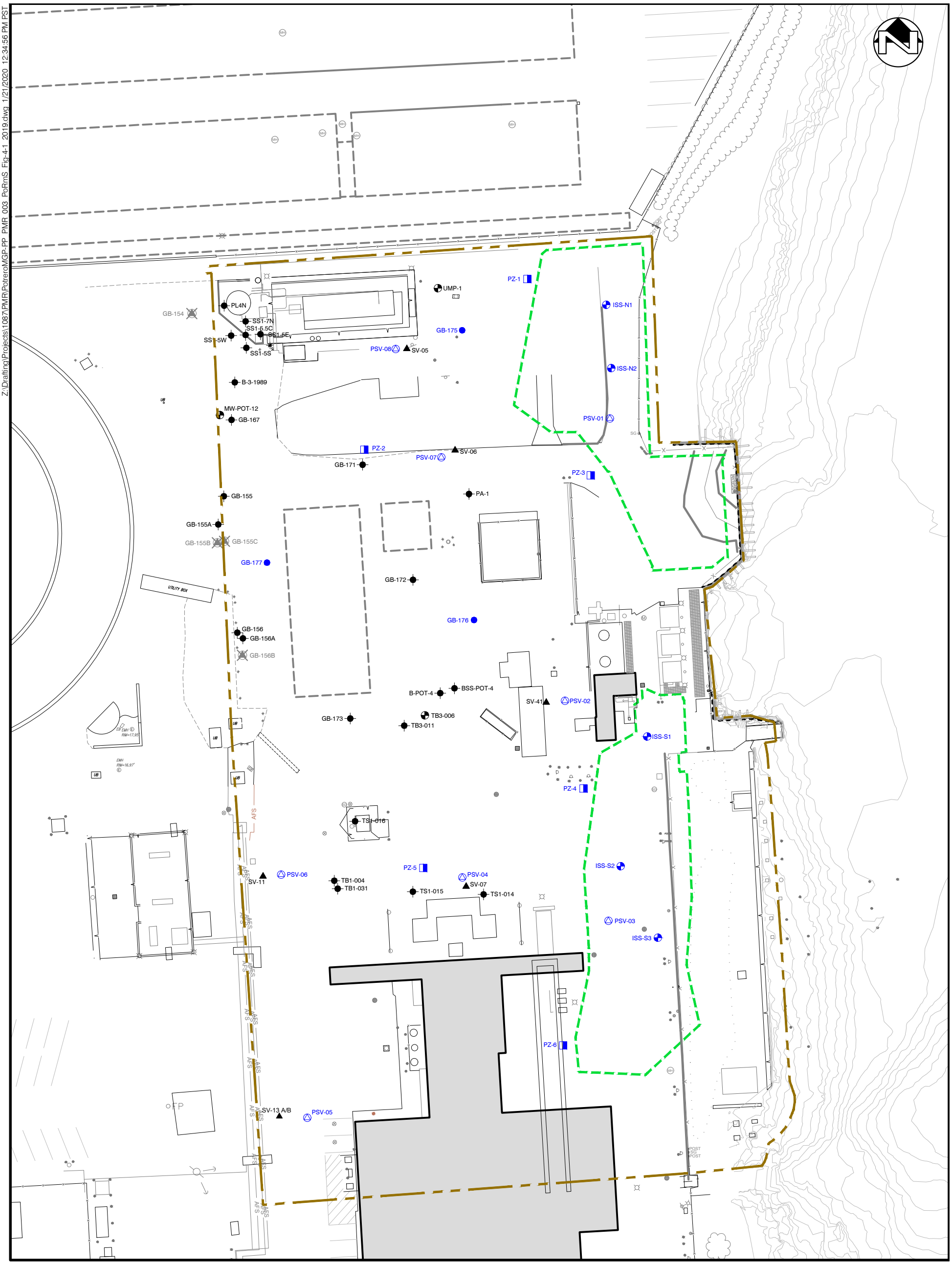

EXPLANATION

- PIEZOMETER (TPG, 2019)
- GROUNDWATER MONITORING WELL (TPG, 2019)
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0 50 100 FEET
APPROXIMATE SCALE

NOTES:
1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. BASE MAP SOURCED FROM: RJL & ASSOCIATE, 2015 AND HALEY & ALDRICH 2018

FIGURE 3-1

SAMPLE LOCATIONS REPRESENTATIVE OF POST-REMEDIATION CONDITIONS

POTRERO POWER PLANT - NORTHEAST AREA
SAN FRANCISCO, CALIFORNIA

TERRA PACIFIC GROUP
Environmental Engineering, Consulting, and Construction

ATTACHMENT A3
Tank Farm Soil Vapor Data

www.haleyaldrich.com

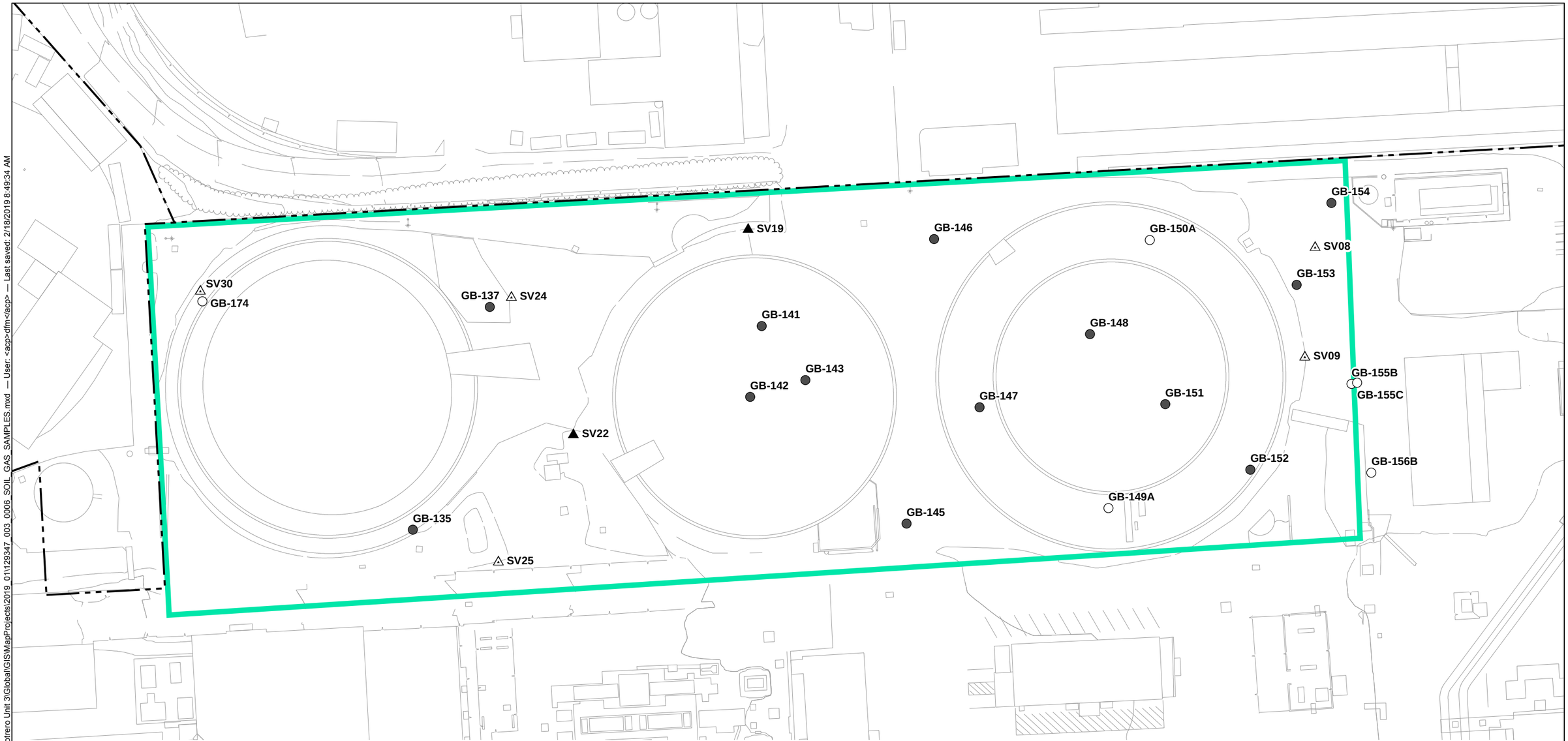
HUMAN HEALTH RISK ASSESSMENT
TANK FARM AREA, POTRERO POWER PLANT SITE
SAN FRANCISCO, CALIFORNIA

by
Haley & Aldrich, Inc.
Oakland, California

for
Pacific Gas and Electric Company
San Francisco, California

DRAFT

File No. 133385-002
May 2019



LEGEND

SOIL VAPOR

- SAMPLED IN 2017
- SAMPLED IN 2018
- SAMPLED IN 2009
- SAMPLED IN 2009/2010

PROPERTY BOUNDARY LINE

TANK FARM AREA

NOTES:

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. BASE MAP SOURCE: RJL & ASSOCIATE, 2015
3. APPROXIMATE LIMITS OF HISTORICAL STRUCTURES DERIVED FROM SANBORN FIRE INSURANCE MAPS (1887, 1900, AND 1914) AND PACIFIC GAS AND ELECTRIC MAPS (1926).
4. APPROXIMATE LOCATION OF HISTORICAL SHORELINE DERIVED FROM US COAST SURVEY (1855).
5. GB-100 SERIES LOCATIONS ARE BASED ON SURVEY BY KISTER, SAVIO AND REI, INC. DATE 1/23/2018.

N

0 60 120

SCALE IN FEET

HALEY ALDRICH

PACIFIC GAS AND ELECTRIC COMPANY (PG&E)
TANK FARM AREA
POTRERO POWER PLANT
SAN FRANCISCO, CALIFORNIA

SOIL VAPOR SAMPLE LOCATIONS

FEBRUARY 2019

FIGURE 6

GIS file path: \\haleyaldrich.com\share\sdg_common\42542 PG&E Potrero Unit 3\Global\GIS\MapProjects\2019_01\129347_003_0006_SOIL_GAS_SAMPLES.mxd — User: <acp>-dfm</acp> — Last saved: 2/18/2019 8:49:34 AM

TABLE A-9
ANALYTICAL DATA: VOLATILE ORGANIC COMPOUNDS IN SOIL VAPOR
TANK FARM AREA, POTRERO POWER PLANT
SAN FRANCISCO, CALIFORNIA

Location ID	Sample ID	Sample Depth (feet bgs)	Sample Date	Sample Type	Sample Method	1,1,1,2-Tetrachloro-ethane	1,1,1-Trichloro-ethane	1,1,2,2-Tetrachloro-ethane	1,1,2-Trichloro-ethane	1,1,2-Trichloro-trifluoroethane (Freon 113)	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloro-propene	1,2,3-Trichloro-benzene	1,2,3-Trichloro-propane	1,2,4-Trichloro-benzene
GB-135	GB-135-SV-4	4	12/18/2017	P	TO-15	--	<0.0027	<0.0069	<0.0027	<0.011	<0.002	<0.002	--	--	--	<0.015
GB-137	GB-137-SV-4	4	12/15/2017	P	TO-15	--	<0.0027	<0.0069	<0.0027	<0.011	<0.002	<0.002	--	--	--	<0.015
GB-141	GB-141-SV-8	8	12/15/2017	P	TO-15	--	<0.0027	<0.0069	<0.0027	<0.011	<0.002	<0.002	--	--	--	<0.015
GB-142	GB-142-SV-6	6	12/14/2017	P	TO-15	--	<0.0089	<0.022	<0.0089	<0.037	<0.0066	<0.0064	--	--	--	<0.048
GB-143	GB-143-SV-6	6	12/14/2017	P	TO-15	--	<0.047	<0.12	<0.047	<0.2	<0.035	<0.034	--	--	--	<0.26
GB-145	GB-145-SV-5	5	12/14/2017	P	TO-15	--	<0.0028	<0.0069	<0.0028	<0.012	<0.002	<0.002	--	--	--	<0.015
GB-146	GB-146-SV-7	7	12/18/2017	P	TO-15	--	<0.014	<0.034	<0.014	<0.057	<0.01	<0.0099	--	--	--	<0.074
GB-147	GB-147-SV-5	5	12/15/2017	P	TO-15	--	<0.11	<0.27	<0.11	<0.46	<0.081	<0.079	--	--	--	<0.59
GB-148	GB-148-SV-6	6	12/18/2017	P	TO-15	--	<0.11	<0.27	<0.11	<0.46	<0.081	<0.079	--	--	--	<0.59
GB-149A	GB-149A-SV-5	5	2/28/2018	P	TO-15	--	<0.0027	<0.0069	<0.0027	<0.011	<0.002	<0.002	--	--	--	<0.015
GB-150A	GB-150A-SV-5	5	2/28/2018	P	TO-15	--	<0.0027	<0.0069	<0.0027	<0.011	<0.002	<0.002	--	--	--	<0.015
GB-151	GB-151-SV-5	5	12/18/2017	P	TO-15	--	<0.11	<0.27	<0.11	<0.46	<0.081	<0.079	--	--	--	<0.59
	GB-151-SV-8	8	12/18/2017	P	TO-15	--	<0.11	<0.27	<0.11	<0.46	<0.081	<0.079	--	--	--	<0.59
GB-152	GB-152-SV-6	6	12/14/2017	P	TO-15	--	<0.0073	<0.018	<0.0073	<0.031	<0.0054	<0.0053	--	--	--	<0.04
GB-153	GB-153-SV-8	8	12/15/2017	P	TO-15	--	<0.017	<0.043	<0.017	<0.072	<0.013	<0.012	--	--	--	<0.093
GB-154	GB-154-SV-5	5	12/18/2017	P	TO-15	--	<0.0027	<0.0069	<0.0027	<0.011	<0.002	<0.002	--	--	--	<0.015
	DUP-121817	5	12/18/2017	FD	TO-15	--	<0.0027	<0.0069	<0.0027	<0.011	<0.002	<0.002	--	--	--	<0.015
GB-155B	GB-155B-SV-5	5	2/27/2018	P	TO-15	--	<0.11	<0.27	<0.11	<0.46	<0.081	<0.079	--	--	--	<0.59
GB-155C	GB-155C-SV-3	3	2/28/2018	P	TO-15	--	<0.011	<0.027	<0.011	<0.046	<0.0081	<0.0079	--	--	--	<0.059
GB-156B	GB-156B-SV-5	5	2/28/2018	P	TO-15	--	<0.0027	<0.0069	<0.0027	<0.011	<0.002	<0.002	--	--	--	<0.015
GB-174	GB-174-SV-5	5	2/28/2018	P	TO-15	--	<0.0028	<0.007	<0.0028	<0.012	<0.0021	<0.002	--	--	--	<0.015
	DUP-022818	5	2/28/2018	FD	TO-15	--	<0.0027	<0.0069	<0.0027	<0.011	<0.002	<0.002	--	--	--	<0.015
SV08	SV08A	4	11/4/2009	P	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008
	SV08A	4	11/4/2009	P	TO-15	--	<0.062	<0.079	<0.062	<0.088	<0.046	<0.045	--	--	--	<0.34
	SV08A-091510	4	9/15/2010	P	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008
SV09	SV09	5	11/4/2009	P	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008
	SV09	5	9/15/2010	P	TO-15	--	<0.065	<0.082	<0.065	<0.091	<0.048	<0.047	--	--	--	<0.35
	SV09-5' 1P	5	9/15/2010	1P	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008
	SV09-5' 3P	5	9/15/2010	3P	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008
	SV09-5' 10P	5	9/15/2010	10P	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008
SV19	SV19	4.4	11/4/2009	P	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008
SV22	SV22	3	11/3/2009	P	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008
SV24	SV24	5.2	11/3/2009	P	TO-15	--	<2.5	<3.2	<2.5	<3.6	<1.9	<1.8	--	--	--	<14
	SV24-1P	5.2	11/3/2009	1P	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008
	SV24-3P	5.2	11/3/2009	3P	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008
	SV24-7P	5.2	11/3/2009	7P	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008
	SV24-5.2'	5.2	9/15/2010	P	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008
SV25	SV25	3.2	11/5/2009	P	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008
	SV25-3.2 1P	3.2	9/15/2010	1P	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008
	SV25-3.2 3P	3.2	9/15/2010	3P	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008
	SV25-3.2 10P	3.2	9/15/2010	10P	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008
SV30	SV30	6	11/3/2009	P	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008
	SV30-6.0'	6	9/15/2010	P	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008

TABLE A-9
ANALYTICAL DATA: VOLATILE ORGANIC COMPOUNDS IN SOIL VAPOR
TANK FARM AREA, POTRERO POWER PLANT
SAN FRANCISCO, CALIFORNIA

Location ID	Sample ID	Sample Depth (feet bgs)	Sample Date	Sample Type	1,2,4-Trimethyl-benzene	1,2-Dibromo-3-Chloropropane (DBCP)	1,2-Dibromoethane (EDB)	1,2-Dichloro-benzene	1,2-Dichloroethane	1,2-Dichloro-propane	1,2-Dichlorotetra-fluoroethane (Freon 114)	1,3,5-Trimethyl-benzene	1,3-Butadiene	1,3-Dichloro-benzene	1,3-Dichloro-propane	1,3-Dichloro-propene
GB-135	GB-135-SV-4	4	12/18/2017	P	<0.0074	--	<0.0038	<0.003	<0.002	<0.0023	<0.014	<0.0025	--	<0.003	--	--
GB-137	GB-137-SV-4	4	12/15/2017	P	<0.0074	--	<0.0038	<0.003	<0.002	<0.0023	<0.014	**0.0026**	--	<0.003	--	--
GB-141	GB-141-SV-8	8	12/15/2017	P	<0.0074	--	<0.0038	<0.003	<0.002	<0.0023	<0.014	<0.0025	--	<0.003	--	--
GB-142	GB-142-SV-6	6	12/14/2017	P	<0.024	--	<0.012	<0.0098	<0.0066	<0.0075	<0.045	<0.008	--	<0.0098	--	--
GB-143	GB-143-SV-6	6	12/14/2017	P	**0.15**	--	<0.067	<0.052	<0.035	<0.04	<0.24	**0.76**	--	<0.052	--	--
GB-145	GB-145-SV-5	5	12/14/2017	P	<0.0074	--	<0.0039	<0.003	<0.002	<0.0023	<0.014	<0.0025	--	<0.003	--	--
GB-146	GB-146-SV-7	7	12/18/2017	P	**3.9**	--	<0.019	<0.015	<0.01	<0.012	<0.07	**1.6**	--	<0.015	--	--
GB-147	GB-147-SV-5	5	12/15/2017	P	<0.29	--	<0.15	<0.12	<0.081	<0.092	<0.56	<0.098	--	<0.12	--	--
GB-148	GB-148-SV-6	6	12/18/2017	P	**1.6**	--	<0.15	<0.12	<0.081	<0.092	<0.56	**0.81**	--	<0.12	--	--
GB-149A	GB-149A-SV-5	5	2/28/2018	P	<0.0074	--	<0.0038	<0.003	<0.002	<0.0023	<0.014	<0.0025	--	<0.003	--	--
GB-150A	GB-150A-SV-5	5	2/28/2018	P	<0.0074	--	<0.0038	<0.003	<0.002	<0.0023	<0.014	<0.0025	--	<0.003	--	--
GB-151	GB-151-SV-5	5	12/18/2017	P	<0.29	--	<0.15	<0.12	<0.081	<0.092	<0.56	<0.098	--	<0.12	--	--
	GB-151-SV-8	8	12/18/2017	P	**1.2**	--	<0.15	<0.12	<0.081	<0.092	<0.56	**0.76**	--	<0.12	--	--
GB-152	GB-152-SV-6	6	12/14/2017	P	<0.02	--	<0.01	<0.0081	<0.0054	<0.0062	<0.037	<0.0066	--	<0.0081	--	--
GB-153	GB-153-SV-8	8	12/15/2017	P	<0.046	--	<0.024	<0.019	<0.013	<0.014	<0.087	<0.015	--	<0.019	--	--
GB-154	GB-154-SV-5	5	12/18/2017	P	<0.0074	--	<0.0038	<0.003	<0.002	<0.0023	<0.014	<0.0025	--	<0.003	--	--
	DUP-121817	5	12/18/2017	FD	<0.0074	--	<0.0038	<0.003	<0.002	<0.0023	<0.014	<0.0025	--	<0.003	--	--
GB-155B	GB-155B-SV-5	5	2/27/2018	P	<0.29	--	<0.15	<0.12	<0.081	<0.092	<0.56	<0.098	--	<0.12	--	--
GB-155C	GB-155C-SV-3	3	2/28/2018	P	<0.029	--	<0.069	<0.012	<0.0081	<0.0092	<0.056	<0.0098	--	<0.012	--	--
GB-156B	GB-156B-SV-5	5	2/28/2018	P	<0.0074	--	<0.0038	<0.003	<0.002	<0.0023	<0.014	<0.0025	--	<0.003	--	--
GB-174	GB-174-SV-5	5	2/28/2018	P	<0.0075	--	<0.0039	<0.0031	<0.0021	<0.0024	<0.014	<0.0025	--	<0.0031	--	--
	DUP-022818	5	2/28/2018	FD	<0.0074	--	<0.0038	<0.003	<0.002	<0.0023	<0.014	<0.0025	--	<0.003	--	--
SV08	SV08A	4	11/4/2009	P	**0.038**	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.008	--	<0.008	<0.008	<0.008
	SV08A	4	11/4/2009	P	<0.056	--	<0.088	<0.069	<0.046	<0.053	--	<0.056	<0.025	<0.069	--	--
	SV08A-091510	4	9/15/2010	P	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.008	--	<0.008	<0.008	<0.008
SV09	SV09	5	11/4/2009	P	**0.908**	<0.008	<0.008	<0.008	<0.008	<0.008	--	**0.222**	--	<0.008	<0.008	--
	SV09	5	9/15/2010	P	**0.088**	--	<0.091	<0.072	<0.048	<0.055	--	<0.058	<0.026	<0.072	--	--
	SV09-5' 1P	5	9/15/2010	1P	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.008	--	<0.008	--	<0.008
	SV09-5' 3P	5	9/15/2010	3P	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.008	--	<0.008	--	<0.008
	SV09-5' 10P	5	9/15/2010	10P	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.008	--	<0.008	--	<0.008
SV19	SV19	4.4	11/4/2009	P	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.008	--	<0.008	<0.008	--
SV22	SV22	3	11/3/2009	P	**0.392**	<0.008	<0.008	<0.008	<0.008	<0.008	--	**0.148**	--	<0.008	<0.008	<0.008
SV24	SV24	5.2	11/3/2009	P	**8.2**	--	<3.6	<2.8	<1.9	<2.2	--	**2.8**	<1	<2.8	--	--
	SV24-1P	5.2	11/3/2009	1P	**4.27**	<0.008	<0.008	<0.008	<0.008	<0.008	--	**4.86**	--	<0.008	--	<0.008
	SV24-3P	5.2	11/3/2009	3P	**5.73**	<0.008	<0.008	<0.008	<0.008	<0.008	--	**3.11**	--	<0.008	--	<0.008
	SV24-7P	5.2	11/3/2009	7P	**4.14**	<0.008	<0.008	<0.008	<0.008	<0.008	--	**2.28**	--	<0.008	--	<0.008
	SV24-5.2'	5.2	9/15/2010	P	**6.21**	<0.008	<0.008	<0.008	<0.008	<0.008	--	**1.83**	--	<0.008	--	<0.008
SV25	SV25	3.2	11/5/2009	P	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.008	--	<0.008	<0.008	<0.008
	SV25-3.2 1P	3.2	9/15/2010	1P	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.008	--	<0.008	--	<0.008
	SV25-3.2 3P	3.2	9/15/2010	3P	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.008	--	<0.008	--	<0.008
	SV25-3.2 10P	3.2	9/15/2010	10P	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.008	--	<0.008	--	<0.008
SV30	SV30	6	11/3/2009	P	**0.235**	<0.008	<0.008	<0.008	<0.008	<0.008	--	**0.062**	--	<0.008	<0.008	--
	SV30-6.0'	6	9/15/2010	P	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.008	--	<0.008	<0.008	<0.008

TABLE A-9
ANALYTICAL DATA: VOLATILE ORGANIC COMPOUNDS IN SOIL VAPOR
TANK FARM AREA, POTRERO POWER PLANT
SAN FRANCISCO, CALIFORNIA

Location ID	Sample ID	Sample Depth (feet bgs)	Sample Date	Sample Type	1,4-Dichloro-benzene	1,4-Dioxane	2,2,4-Trimethyl-pentane	2,2-Dichloro-propane	2-Butanone (MEK)	2-Chlorotoluene	2-Hexanone (Methyl butyl ketone)	2-Propanol	3-Chloropropene	4-Chlorotoluene	4-Ethyltoluene	4-Methyl-2-pentanone (MIBK)
GB-135	GB-135-SV-4	4	12/18/2017	P	<0.003	--	--	--	<0.0044	--	<0.0061	--	--	--	<0.0025	<0.0061
GB-137	GB-137-SV-4	4	12/15/2017	P	<0.003	--	--	--	<0.0044	--	<0.0061	--	--	--	<0.0025	<0.0061
GB-141	GB-141-SV-8	8	12/15/2017	P	<0.003	--	--	--	**0.0051**	--	<0.0061	--	--	--	<0.0025	<0.0061
GB-142	GB-142-SV-6	6	12/14/2017	P	<0.0098	--	--	--	<0.014	--	<0.02	--	--	--	<0.008	<0.02
GB-143	GB-143-SV-6	6	12/14/2017	P	<0.052	--	--	--	<0.077	--	<0.11	--	--	--	**0.27**	<0.11
GB-145	GB-145-SV-5	5	12/14/2017	P	<0.003	--	--	--	<0.0045	--	<0.0062	--	--	--	<0.0025	<0.0062
GB-146	GB-146-SV-7	7	12/18/2017	P	<0.015	--	--	--	<0.022	--	<0.031	--	--	--	**0.56**	<0.031
GB-147	GB-147-SV-5	5	12/15/2017	P	<0.12	--	--	--	<0.18	--	<0.25	--	--	--	<0.098	<0.25
GB-148	GB-148-SV-6	6	12/18/2017	P	<0.12	--	--	--	<0.18	--	<0.25	--	--	--	**0.55**	<0.25
GB-149A	GB-149A-SV-5	5	2/28/2018	P	<0.003	--	--	--	<0.0044	--	<0.0061	--	--	--	<0.0025	<0.0061
GB-150A	GB-150A-SV-5	5	2/28/2018	P	<0.003	--	--	--	<0.0044	--	<0.0061	--	--	--	<0.0025	<0.0061
GB-151	GB-151-SV-5	5	12/18/2017	P	<0.12	--	--	--	<0.18	--	<0.25	--	--	--	<0.098	<0.25
	GB-151-SV-8	8	12/18/2017	P	<0.12	--	--	--	<0.18	--	<0.25	--	--	--	**1.7**	<0.25
GB-152	GB-152-SV-6	6	12/14/2017	P	<0.0081	--	--	--	<0.012	--	<0.016	--	--	--	<0.0066	<0.016
GB-153	GB-153-SV-8	8	12/15/2017	P	<0.019	--	--	--	<0.028	--	<0.038	--	--	--	<0.015	<0.038
GB-154	GB-154-SV-5	5	12/18/2017	P	<0.003	--	--	--	<0.0044	--	<0.0061	--	--	--	<0.0025	<0.0061
	DUP-121817	5	12/18/2017	FD	<0.003	--	--	--	<0.0044	--	<0.0061	--	--	--	<0.0025	<0.0061
GB-155B	GB-155B-SV-5	5	2/27/2018	P	<0.12	--	--	--	<0.18	--	<0.25	--	--	--	<0.098	<0.25
GB-155C	GB-155C-SV-3	3	2/28/2018	P	<0.012	--	--	--	<0.018	--	<0.025	--	--	--	<0.0098	<0.025
GB-156B	GB-156B-SV-5	5	2/28/2018	P	<0.003	--	--	--	<0.0044	--	<0.0061	--	--	--	<0.0025	<0.0061
GB-174	GB-174-SV-5	5	2/28/2018	P	<0.0031	--	--	--	<0.0045	--	<0.0063	--	--	--	<0.0025	<0.0063
	DUP-022818	5	2/28/2018	FD	<0.003	--	--	--	**0.0081**	--	<0.0061	--	--	--	<0.0025	<0.0061
SV08	SV08A	4	11/4/2009	P	<0.008	--	--	<0.008	--	<0.008	--	--	--	<0.008	--	--
	SV08A	4	11/4/2009	P	<0.069	<0.16	<0.053	--	<0.034	--	<0.19	<0.11	<0.14	--	<0.056	<0.047
	SV08A-091510	4	9/15/2010	P	<0.008	--	--	<0.008	--	<0.008	--	--	--	<0.008	--	--
SV09	SV09	5	11/4/2009	P	<0.008	--	--	<0.008	--	<0.008	--	--	--	<0.008	--	--
	SV09	5	9/15/2010	P	<0.072	<0.17	**0.37**	--	<0.035	--	<0.19	<0.12	<0.15	--	**0.19**	<0.049
	SV09-5' 1P	5	9/15/2010	1P	<0.008	--	--	<0.008	--	<0.008	--	--	--	<0.008	--	--
	SV09-5' 3P	5	9/15/2010	3P	<0.008	--	--	<0.008	--	<0.008	--	--	--	<0.008	--	--
	SV09-5' 10P	5	9/15/2010	10P	<0.008	--	--	<0.008	--	<0.008	--	--	--	<0.008	--	--
SV19	SV19	4.4	11/4/2009	P	<0.008	--	--	<0.008	--	<0.008	--	--	--	<0.008	--	--
SV22	SV22	3	11/3/2009	P	<0.008	--	--	<0.008	--	<0.008	--	--	--	<0.008	--	--
SV24	SV24	5.2	11/3/2009	P	<2.8	<6.7	<2.2	--	<1.4	--	<7.6	<4.6	<5.8	--	**5.3**	<1.9
	SV24-1P	5.2	11/3/2009	1P	<0.008	--	--	<0.008	--	<0.008	--	--	--	<0.008	--	--
	SV24-3P	5.2	11/3/2009	3P	<0.008	--	--	<0.008	--	<0.008	--	--	--	<0.008	--	--
	SV24-7P	5.2	11/3/2009	7P	<0.008	--	--	<0.008	--	<0.008	--	--	--	<0.008	--	--
	SV24-5.2'	5.2	9/15/2010	P	<0.008	--	--	<0.008	--	<0.008	--	--	--	<0.008	--	--
SV25	SV25	3.2	11/5/2009	P	<0.008	--	--	<0.008	--	<0.008	--	--	--	<0.008	--	--
	SV25-3.2 1P	3.2	9/15/2010	1P	<0.008	--	--	<0.008	--	<0.008	--	--	--	<0.008	--	--
	SV25-3.2 3P	3.2	9/15/2010	3P	<0.008	--	--	<0.008	--	<0.008	--	--	--	<0.008	--	--
	SV25-3.2 10P	3.2	9/15/2010	10P	<0.008	--	--	<0.008	--	<0.008	--	--	--	<0.008	--	--
SV30	SV30	6	11/3/2009	P	<0.008	--	--	<0.008	--	<0.008	--	--	--	<0.008	--	--
	SV30-6.0'	6	9/15/2010	P	<0.008	--	--	<0.008	--	<0.008	--	--	--	<0.008	--	--

TABLE A-9
ANALYTICAL DATA: VOLATILE ORGANIC COMPOUNDS IN SOIL VAPOR
TANK FARM AREA, POTRERO POWER PLANT
SAN FRANCISCO, CALIFORNIA

Location ID	Sample ID	Sample Depth (feet bgs)	Sample Date	Sample Type	Acetone	Benzene	Benzylchloride	Bromobenzene	Bromodichloro-methane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chlorodibromo-methane
GB-135	GB-135-SV-4	4	12/18/2017	P	**0.018**	**0.0017**	<0.0078	--	<0.0034	<0.0052	<0.0019	**0.0066**	<0.0031	<0.0023	<0.0043
GB-137	GB-137-SV-4	4	12/15/2017	P	**0.02**	**0.019**	<0.0078	--	<0.0034	<0.0052	<0.0019	**0.16**	<0.0031	<0.0023	<0.0043
GB-141	GB-141-SV-8	8	12/15/2017	P	**0.033**	**0.073**	<0.0078	--	<0.0034	<0.0052	<0.0019	**0.16**	<0.0031	<0.0023	<0.0043
GB-142	GB-142-SV-6	6	12/14/2017	P	<0.015	**0.065**	<0.025	--	<0.011	<0.017	<0.0063	<0.02	<0.01	<0.0075	<0.014
GB-143	GB-143-SV-6	6	12/14/2017	P	<0.083	**2.7**	<0.14	--	<0.058	<0.09	<0.034	**0.12**	<0.055	<0.04	<0.074
GB-145	GB-145-SV-5	5	12/14/2017	P	**0.0082**	<0.0016	<0.0078	--	<0.0034	<0.0052	<0.002	<0.0063	<0.0032	<0.0023	<0.0043
GB-146	GB-146-SV-7	7	12/18/2017	P	**0.074**	**11**	<0.039	--	<0.017	<0.026	<0.0097	**0.098**	<0.016	<0.012	<0.021
GB-147	GB-147-SV-5	5	12/15/2017	P	<0.19	**1.8**	<0.31	--	<0.13	<0.21	<0.078	<0.25	<0.13	<0.092	<0.17
GB-148	GB-148-SV-6	6	12/18/2017	P	**0.61**	**280**	<0.31	--	<0.13	<0.21	<0.078	<0.25	<0.13	<0.092	<0.17
GB-149A	GB-149A-SV-5	5	2/28/2018	P	**0.0074**	**0.007**	<0.0078	--	<0.0034	<0.0052	<0.0019	<0.0062	<0.0031	<0.0023	<0.0043
GB-150A	GB-150A-SV-5	5	2/28/2018	P	**0.063**	**0.0096**	<0.0078	--	<0.0034	<0.0052	<0.0019	**0.017**	<0.0031	<0.0023	<0.0043
GB-151	GB-151-SV-5	5	12/18/2017	P	<0.19	**77 J**	<0.31	--	<0.13	<0.21	<0.078	<0.25	<0.13	<0.092	<0.17
	GB-151-SV-8	8	12/18/2017	P	<0.19	**260**	<0.31	--	<0.13	<0.21	<0.078	<0.25	<0.13	<0.092	<0.17
GB-152	GB-152-SV-6	6	12/14/2017	P	<0.013	<0.0043	<0.021	--	<0.009	<0.014	<0.0052	<0.017	<0.0084	<0.0062	<0.011
GB-153	GB-153-SV-8	8	12/15/2017	P	<0.03	**0.034**	<0.049	--	<0.021	<0.032	<0.012	**0.14**	<0.02	<0.014	<0.027
GB-154	GB-154-SV-5	5	12/18/2017	P	<0.0048	<0.0016	<0.0078	--	<0.0034	<0.0052	<0.0019	<0.0062	<0.0031	<0.0023	<0.0043
	DUP-121817	5	12/18/2017	FD	**0.011**	<0.0016	<0.0078	--	<0.0034	<0.0052	<0.0019	<0.0062	<0.0031	<0.0023	<0.0043
GB-155B	GB-155B-SV-5	5	2/27/2018	P	<0.19	**5.2**	<0.31	--	<0.13	<0.21	<0.078	<0.25	<0.13	<0.092	<0.17
GB-155C	GB-155C-SV-3	3	2/28/2018	P	**0.08**	**0.038**	<0.031	--	<0.013	<0.021	<0.0078	<0.025	<0.013	<0.0092	<0.017
GB-156B	GB-156B-SV-5	5	2/28/2018	P	**0.012**	<0.0016	<0.0078	--	<0.0034	<0.0052	<0.0019	<0.0062	<0.0031	<0.0023	<0.0043
GB-174	GB-174-SV-5	5	2/28/2018	P	**0.043**	<0.0016	<0.0079	--	<0.0034	<0.0053	<0.002	<0.0064	<0.0032	<0.0023	<0.0043
	DUP-022818	5	2/28/2018	FD	**0.03**	<0.0016	<0.0078	--	<0.0034	<0.0052	<0.0019	<0.0062	<0.0031	<0.0023	<0.0043
SV08	SV08A	4	11/4/2009	P	--	<0.008	--	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008
	SV08A	4	11/4/2009	P	<0.11	<0.036	<0.059	--	<0.077	<0.12	<0.044	<0.036	<0.072	<0.053	<0.098
	SV08A-091510	4	9/15/2010	P	--	<0.008	--	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008
SV09	SV09	5	11/4/2009	P	--	**238**	--	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008
	SV09	5	9/15/2010	P	<0.11	**0.91**	<0.062	--	<0.08	<0.12	<0.046	<0.037	<0.075	<0.055	<0.1
	SV09-5' 1P	5	9/15/2010	1P	--	**1.16**	--	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008
	SV09-5' 3P	5	9/15/2010	3P	--	**1.93**	--	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008
	SV09-5' 10P	5	9/15/2010	10P	--	**1.41**	--	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008
SV19	SV19	4.4	11/4/2009	P	--	**0.052**	--	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008
SV22	SV22	3	11/3/2009	P	--	**22.1**	--	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008
SV24	SV24	5.2	11/3/2009	P	<4.4	**930**	<2.4	--	<3.1	<4.8	<1.8	<1.4	<2.9	<2.1	<4
	SV24-1P	5.2	11/3/2009	1P	--	**532**	--	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008
	SV24-3P	5.2	11/3/2009	3P	--	**717**	--	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008
	SV24-7P	5.2	11/3/2009	7P	--	**581**	--	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008
	SV24-5.2'	5.2	9/15/2010	P	--	**303**	--	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008
SV25	SV25	3.2	11/5/2009	P	--	<0.008	--	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008
	SV25-3.2 1P	3.2	9/15/2010	1P	--	<0.008	--	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008
	SV25-3.2 3P	3.2	9/15/2010	3P	--	<0.008	--	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008
	SV25-3.2 10P	3.2	9/15/2010	10P	--	<0.008	--	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008
SV30	SV30	6	11/3/2009	P	--	**2.88**	--	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008
	SV30-6.0'	6	9/15/2010	P	--	**0.076**	--	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008

TABLE A-9
ANALYTICAL DATA: VOLATILE ORGANIC COMPOUNDS IN SOIL VAPOR
TANK FARM AREA, POTRERO POWER PLANT
SAN FRANCISCO, CALIFORNIA

Location ID	Sample ID	Sample Depth (feet bgs)	Sample Date	Sample Type	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloro-propene	Cumene	Cyclohexane	Cymene	Dibromo-methane	Dichloro-difluoromethane (Freon 12)	Dichloro-tetrafluoroethane
GB-135	GB-135-SV-4	4	12/18/2017	P	<0.0013	**0.0045**	<0.001	<0.002	<0.0023	--	--	--	--	**0.0054**	--
GB-137	GB-137-SV-4	4	12/15/2017	P	<0.0013	**0.0028**	<0.001	<0.002	<0.0023	--	--	--	--	**0.1**	--
GB-141	GB-141-SV-8	8	12/15/2017	P	<0.0013	**0.029**	**0.0015**	<0.002	<0.0023	--	--	--	--	<0.0025	--
GB-142	GB-142-SV-6	6	12/14/2017	P	<0.0043	<0.0079	<0.0034	<0.0064	<0.0074	--	--	--	--	<0.008	--
GB-143	GB-143-SV-6	6	12/14/2017	P	<0.023	**0.044**	<0.018	<0.034	<0.039	--	--	--	--	<0.043	--
GB-145	GB-145-SV-5	5	12/14/2017	P	<0.0013	**0.0086**	<0.001	<0.002	<0.0023	--	--	--	--	<0.0025	--
GB-146	GB-146-SV-7	7	12/18/2017	P	<0.0066	<0.012	<0.0052	<0.0099	<0.011	--	--	--	--	<0.012	--
GB-147	GB-147-SV-5	5	12/15/2017	P	<0.053	<0.098	<0.041	<0.079	<0.091	--	--	--	--	<0.099	--
GB-148	GB-148-SV-6	6	12/18/2017	P	<0.053	<0.098	<0.041	<0.079	<0.091	--	--	--	--	<0.099	--
GB-149A	GB-149A-SV-5	5	2/28/2018	P	<0.0013	<0.0024	<0.001	<0.002	<0.0023	--	--	--	--	<0.0025	--
GB-150A	GB-150A-SV-5	5	2/28/2018	P	<0.0013	<0.0024	<0.001	**0.0036**	<0.0023	--	--	--	--	<0.0025	--
GB-151	GB-151-SV-5	5	12/18/2017	P	<0.053	<0.098	<0.041	<0.079	<0.091	--	--	--	--	<0.099	--
	GB-151-SV-8	8	12/18/2017	P	<0.053	<0.098	<0.041	<0.079	<0.091	--	--	--	--	<0.099	--
GB-152	GB-152-SV-6	6	12/14/2017	P	<0.0035	<0.0065	<0.0028	<0.0053	<0.0061	--	--	--	--	<0.0066	--
GB-153	GB-153-SV-8	8	12/15/2017	P	<0.0082	<0.015	<0.0065	<0.012	<0.014	--	--	--	--	<0.015	--
GB-154	GB-154-SV-5	5	12/18/2017	P	<0.0013	**0.0028**	<0.001	<0.002	<0.0023	--	--	--	--	<0.0025	--
	DUP-121817	5	12/18/2017	FD	<0.0013	**0.0026**	<0.001	<0.002	<0.0023	--	--	--	--	<0.0025	--
GB-155B	GB-155B-SV-5	5	2/27/2018	P	<0.053	<0.098	<0.041	<0.079	<0.091	--	--	--	--	<0.099	--
GB-155C	GB-155C-SV-3	3	2/28/2018	P	<0.0053	**0.03**	<0.0041	<0.0079	<0.0091	--	--	--	--	<0.0099	--
GB-156B	GB-156B-SV-5	5	2/28/2018	P	<0.0013	**0.0084**	<0.001	<0.002	<0.0023	--	--	--	--	**0.0037**	--
GB-174	GB-174-SV-5	5	2/28/2018	P	<0.0013	**0.0069 J**	<0.0011	<0.002	<0.0023	--	--	--	--	<0.0025	--
	DUP-022818	5	2/28/2018	FD	<0.0013	<0.0024 UJ	<0.001	<0.002	<0.0023	--	--	--	--	<0.0025	--
SV08	SV08A	4	11/4/2009	P	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.008	<0.008	<0.008	--
	SV08A	4	11/4/2009	P	<0.03	<0.056	<0.094	<0.045	<0.052	<0.056	**0.16**	--	--	<0.057	<0.08
	SV08A-091510	4	9/15/2010	P	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.008	<0.008	<0.008	--
SV09	SV09	5	11/4/2009	P	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.008	<0.008	<0.008	--
	SV09	5	9/15/2010	P	<0.031	<0.058	<0.098	<0.047	<0.054	**0.095**	<0.041	--	--	<0.059	<0.083
	SV09-5' 1P	5	9/15/2010	1P	<0.008	<0.008	<0.008	<0.008	<0.008	**0.044**	--	<0.008	<0.008	<0.008	--
	SV09-5' 3P	5	9/15/2010	3P	<0.008	<0.008	<0.008	<0.008	<0.008	**0.05**	--	<0.008	<0.008	<0.008	--
	SV09-5' 10P	5	9/15/2010	10P	<0.008	<0.008	<0.008	<0.008	<0.008	**0.056**	--	<0.008	<0.008	<0.008	--
SV19	SV19	4.4	11/4/2009	P	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.008	<0.008	<0.008	--
SV22	SV22	3	11/3/2009	P	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.008	<0.008	<0.008	--
SV24	SV24	5.2	11/3/2009	P	<1.2	<2.3	<3.8	<1.8	<2.1	<2.3	<1.6	--	--	<2.3	<3.2
	SV24-1P	5.2	11/3/2009	1P	<0.008	<0.008	<0.008	<0.008	<0.008	**1.49**	--	<0.008	<0.008	<0.008	--
	SV24-3P	5.2	11/3/2009	3P	<0.008	<0.008	<0.008	<0.008	<0.008	**1.16**	--	**0.355**	<0.008	<0.008	--
	SV24-7P	5.2	11/3/2009	7P	<0.008	<0.008	<0.008	<0.008	<0.008	**0.636**	--	<0.008	<0.008	<0.008	--
	SV24-5.2'	5.2	9/15/2010	P	<0.008	<0.008	<0.008	<0.008	<0.008	**2.52**	--	**0.238**	<0.008	<0.008	--
SV25	SV25	3.2	11/5/2009	P	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.008	<0.008	<0.008	--
	SV25-3.2 1P	3.2	9/15/2010	1P	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.008	<0.008	<0.008	--
	SV25-3.2 3P	3.2	9/15/2010	3P	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.008	<0.008	<0.008	--
	SV25-3.2 10P	3.2	9/15/2010	10P	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.008	<0.008	<0.008	--
SV30	SV30	6	11/3/2009	P	<0.008	<0.008	<0.008	<0.008	<0.008	**1.19**	--	<0.008	<0.008	<0.008	--
	SV30-6.0'	6	9/15/2010	P	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.008	<0.008	<0.008	--

TABLE A-9
ANALYTICAL DATA: VOLATILE ORGANIC COMPOUNDS IN SOIL VAPOR
TANK FARM AREA, POTRERO POWER PLANT
SAN FRANCISCO, CALIFORNIA

Location ID	Sample ID	Sample Depth (feet bgs)	Sample Date	Sample Type	Ethanol	Ethyl tert-butyl ether (ETBE)	Ethylbenzene	Heptane	Hexachloro-butadiene	Hexane	Isopropyl ether	m,p-Xylenes	Methyl tert-butyl ether (MTBE)	Methylene chloride	Naphthalene	n-Butylbenzene
GB-135	GB-135-SV-4	4	12/18/2017	P	**0.011**	<0.0084	<0.0022	--	<0.016	--	<0.0084	<0.0087	<0.0072	<0.017	<0.026 [a]	--
GB-137	GB-137-SV-4	4	12/15/2017	P	<0.0094	<0.0084	**0.011**	--	<0.016	--	<0.0084	**0.011**	<0.0072	<0.017	<0.026	--
GB-141	GB-141-SV-8	8	12/15/2017	P	<0.0094	<0.0084	**0.015**	--	<0.016	--	<0.0084	<0.0087	**0.016**	<0.017	<0.026	--
GB-142	GB-142-SV-6	6	12/14/2017	P	<0.031	<0.027	**0.047**	--	<0.052	--	<0.027	**0.034**	<0.023	<0.056	<0.085	--
GB-143	GB-143-SV-6	6	12/14/2017	P	<0.16	<0.15	**1.4**	--	<0.28	--	<0.15	<0.15	<0.13	<0.3	<0.46	--
GB-145	GB-145-SV-5	5	12/14/2017	P	<0.0095	<0.0084	<0.0022	--	<0.016	--	<0.0084	<0.0088	<0.0073	<0.018	<0.026	--
GB-146	GB-146-SV-7	7	12/18/2017	P	<0.047	<0.042	**16**	--	<0.08	--	<0.042	**10**	<0.036	<0.087	**13**	--
GB-147	GB-147-SV-5	5	12/15/2017	P	<0.38	<0.33	**0.44**	--	<0.64	--	<0.33	**0.58**	<0.29	<0.69	<1	--
GB-148	GB-148-SV-6	6	12/18/2017	P	<0.38	<0.33	**21 J**	--	<0.64	--	<0.33	**12**	<0.29	<0.69	**4.1 J**	--
GB-149A	GB-149A-SV-5	5	2/28/2018	P	<0.0094	<0.0084	<0.0022	--	<0.016	--	<0.0084	<0.0087	<0.0072	<0.017	<0.026	--
GB-150A	GB-150A-SV-5	5	2/28/2018	P	<0.0094	<0.0084	**0.0046**	--	<0.016	--	<0.0084	<0.0087	<0.0072	<0.017	**0.085**	--
GB-151	GB-151-SV-5	5	12/18/2017	P	<0.38	<0.33	**1.1**	--	<0.64	--	<0.33	<0.35	<0.29	<0.69	**5.6**	--
	GB-151-SV-8	8	12/18/2017	P	<0.38	<0.33	**70**	--	<0.64	--	<0.33	**12**	<0.29	<0.69	**3.7**	--
GB-152	GB-152-SV-6	6	12/14/2017	P	<0.025	<0.022	<0.0058	--	<0.043	--	<0.022	<0.023	<0.019	<0.047	<0.07	--
GB-153	GB-153-SV-8	8	12/15/2017	P	<0.059	<0.052	**0.016**	--	<0.1	--	<0.052	<0.054	<0.045	<0.11	<0.16	--
GB-154	GB-154-SV-5	5	12/18/2017	P	<0.0094	<0.0084	<0.0022	--	<0.016	--	<0.0084	<0.0087	<0.0072	<0.017	<0.026	--
	DUP-121817	5	12/18/2017	FD	<0.0094	<0.0084	<0.0022	--	<0.016	--	<0.0084	<0.0087	<0.0072	<0.017	<0.026	--
GB-155B	GB-155B-SV-5	5	2/27/2018	P	<0.38	<0.33	**0.41**	--	<0.64	--	<0.33	**0.64**	<0.29	<0.69	**1.6**	--
GB-155C	GB-155C-SV-3	3	2/28/2018	P	<0.038	<0.033	**0.01 J**	--	<0.064	--	<0.033	<0.035	<0.029	<0.069	<0.1	--
GB-156B	GB-156B-SV-5	5	2/28/2018	P	<0.0094	<0.0084	<0.0022	--	<0.016	--	<0.0084	<0.0087	<0.0072	<0.017	<0.026	--
GB-174	GB-174-SV-5	5	2/28/2018	P	**0.12 J**	<0.0085	<0.0022	--	<0.016	--	<0.0085	<0.0089	<0.0074	<0.018	<0.027	--
	DUP-022818	5	2/28/2018	FD	<0.0094 UJ	<0.0084	<0.0022	--	<0.016	--	<0.0084	<0.0087	<0.0072	<0.017	<0.026	--
SV08	SV08A	4	11/4/2009	P	--	<0.008	<0.008	--	<0.008	**1.18**	<0.008	--	<0.008	<0.008	<0.008	<0.008
	SV08A	4	11/4/2009	P	<0.086	--	<0.05	<0.047	<0.49	**0.058**	--	**0.051**	<0.041	<0.04	<0.24	--
	SV08A-091510	4	9/15/2010	P	--	<0.008	<0.008	--	<0.008	<0.008	<0.008	--	<0.008	<0.008	**0.129**	<0.008
SV09	SV09	5	11/4/2009	P	--	<0.008	<0.008	--	<0.008	<0.008	<0.008	--	<0.008	<0.008	**5.63**	<0.008
	SV09	5	9/15/2010	P	<0.09	--	**0.29**	<0.049	<0.51	**0.1**	--	**0.2**	<0.043	<0.041	**3.7**	--
	SV09-5' 1P	5	9/15/2010	1P	--	<0.008	**0.221**	--	<0.008	--	<0.008	--	<0.008	<0.008	**1.65**	<0.008
	SV09-5' 3P	5	9/15/2010	3P	--	<0.008	**0.342**	--	<0.008	--	<0.008	--	<0.008	<0.008	**1.77**	<0.008
	SV09-5' 10P	5	9/15/2010	10P	--	<0.008	**0.278**	--	<0.008	--	<0.008	--	<0.008	<0.008	**1.95**	<0.008
SV19	SV19	4.4	11/4/2009	P	--	<0.008	<0.008	--	<0.008	**0.353**	<0.008	--	<0.008	<0.008	**0.156**	<0.008
SV22	SV22	3	11/3/2009	P	--	<0.008	<0.008	--	<0.008	**1.78**	<0.008	--	<0.008	<0.008	<0.008	<0.008
SV24	SV24	5.2	11/3/2009	P	<3.5	--	**200**	**7**	<20	**7.9**	--	**130**	<1.7	<1.6	**260**	--
	SV24-1P	5.2	11/3/2009	1P	--	<0.008	**66.6**	--	<0.008	**0.282**	<0.008	--	<0.008	<0.008	<0.008	<0.008
	SV24-3P	5.2	11/3/2009	3P	--	<0.008	**117**	--	<0.008	**0.322**	<0.008	--	<0.008	<0.008	<0.008	<0.008
	SV24-7P	5.2	11/3/2009	7P	--	<0.008	**89**	--	<0.008	**0.309**	<0.008	--	<0.008	<0.008	<0.008	<0.008
	SV24-5.2'	5.2	9/15/2010	P	--	<0.008	**103**	--	<0.008	--	<0.008	--	<0.008	<0.008	**253**	**0.39**
SV25	SV25	3.2	11/5/2009	P	--	<0.008	<0.008	--	<0.008	<0.008	<0.008	--	<0.008	<0.008	<0.008	<0.008
	SV25-3.2 1P	3.2	9/15/2010	1P	--	<0.008	<0.008	--	<0.008	--	<0.008	--	<0.008	<0.008	**0.066**	<0.008
	SV25-3.2 3P	3.2	9/15/2010	3P	--	<0.008	<0.008	--	<0.008	--	<0.008	--	<0.008	<0.008	**0.088**	<0.008
	SV25-3.2 10P	3.2	9/15/2010	10P	--	<0.008	<0.008	--	<0.008	--	<0.008	--	<0.008	<0.008	**0.063**	<0.008
SV30	SV30	6	11/3/2009	P	--	<0.008	<0.008	--	<0.008	**0.108**	<0.008	--	<0.008	<0.008	<0.008	<0.008
	SV30-6.0'	6	9/15/2010	P	--	<0.008	<0.008	--	<0.008	<0.008	<0.008	--	<0.008	<0.008	**1.37**	<0.008

TABLE A-9
ANALYTICAL DATA: VOLATILE ORGANIC COMPOUNDS IN SOIL VAPOR
TANK FARM AREA, POTRERO POWER PLANT
SAN FRANCISCO, CALIFORNIA

Location ID	Sample ID	Sample Depth (feet bgs)	Sample Date	Sample Type	n-Propylbenzene	o-Xylene	sec-Butylbenzene	Styrene	Tert-Amyl Methyl Ether (TAME)	tert-Butyl alcohol	tert-Butylbenzene	Tetra-chloroethene	Tetra-hydrofuran	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloro-propene
GB-135	GB-135-SV-4	4	12/18/2017	P	--	<0.0022	--	<0.0064	<0.0084	<0.0061	--	**0.35**	--	<0.0019	<0.002	<0.0045
GB-137	GB-137-SV-4	4	12/15/2017	P	--	**0.0031**	--	<0.0064	<0.0084	<0.0061	--	<0.0034	--	**0.0053**	<0.002	<0.0045
GB-141	GB-141-SV-8	8	12/15/2017	P	--	**0.0078**	--	<0.0064	<0.0084	<0.0061	--	<0.0034	--	**0.0098**	<0.002	<0.0045
GB-142	GB-142-SV-6	6	12/14/2017	P	--	**0.011**	--	<0.021	<0.027	<0.02	--	<0.011	--	**0.031**	<0.0064	<0.015
GB-143	GB-143-SV-6	6	12/14/2017	P	--	**0.2**	--	<0.11	<0.15	<0.11	--	<0.059	--	**0.17**	<0.034	<0.079
GB-145	GB-145-SV-5	5	12/14/2017	P	--	<0.0022	--	<0.0065	<0.0084	<0.0061	--	**0.0077**	--	**0.0037**	<0.002	<0.0046
GB-146	GB-146-SV-7	7	12/18/2017	P	--	**7.5**	--	**0.13**	<0.042	<0.03	--	<0.017	--	**3.7**	<0.0099	<0.023
GB-147	GB-147-SV-5	5	12/15/2017	P	--	**0.26**	--	<0.26	<0.33	<0.24	--	<0.14	--	**0.59**	<0.079	<0.18
GB-148	GB-148-SV-6	6	12/18/2017	P	--	**6.7**	--	**0.70**	<0.33	<0.24	--	<0.14	--	**17 J**	<0.079	<0.18
GB-149A	GB-149A-SV-5	5	2/28/2018	P	--	<0.0022	--	<0.0064	<0.0084	<0.0061	--	<0.0034	--	<0.0019	<0.002	<0.0045
GB-150A	GB-150A-SV-5	5	2/28/2018	P	--	**0.0026**	--	<0.0064	<0.0084	<0.0061	--	**0.0064**	--	**0.0066**	<0.002	<0.0045
GB-151	GB-151-SV-5	5	12/18/2017	P	--	**0.15**	--	<0.26	<0.33	<0.24	--	<0.14	--	**0.64**	<0.079	<0.18
	GB-151-SV-8	8	12/18/2017	P	--	**7.4**	--	**0.34**	<0.33	<0.24	--	<0.14	--	**7.9**	<0.079	<0.18
GB-152	GB-152-SV-6	6	12/14/2017	P	--	<0.0058	--	<0.017	<0.022	<0.016	--	<0.0091	--	<0.005	<0.0053	<0.012
GB-153	GB-153-SV-8	8	12/15/2017	P	--	<0.014	--	<0.04	<0.052	<0.038	--	<0.021	--	**0.021**	<0.012	<0.028
GB-154	GB-154-SV-5	5	12/18/2017	P	--	<0.0022	--	<0.0064	<0.0084	<0.0061	--	**0.24**	--	<0.0019	<0.002	<0.0045
	DUP-121817	5	12/18/2017	FD	--	<0.0022	--	<0.0064	<0.0084	<0.0061	--	**0.24**	--	<0.0019	<0.002	<0.0045
GB-155B	GB-155B-SV-5	5	2/27/2018	P	--	**0.35**	--	<0.26	<0.33	<0.24	--	<0.14	--	**1.0**	<0.079	<0.18
GB-155C	GB-155C-SV-3	3	2/28/2018	P	--	<0.0087	--	<0.026	<0.033	<0.024	--	<0.014	--	**0.0088**	<0.0079	<0.018
GB-156B	GB-156B-SV-5	5	2/28/2018	P	--	<0.0022	--	<0.0064	<0.0084	<0.0061	--	<0.0034	--	<0.0019	<0.002	<0.0045
GB-174	GB-174-SV-5	5	2/28/2018	P	--	<0.0022	--	<0.0065	<0.0085	<0.0062	--	<0.0035	--	<0.0019	<0.002	<0.0046
	DUP-022818	5	2/28/2018	FD	--	<0.0022	--	<0.0064	<0.0084	<0.0061	--	<0.0034	--	<0.0019	<0.002	<0.0045
SV08	SV08A	4	11/4/2009	P	<0.008	--	**0.039**	<0.008	<0.008	<0.035	<0.008	<0.008	--	**0.209**	<0.008	<0.008
	SV08A	4	11/4/2009	P	<0.056	<0.05	--	<0.049	--	--	--	<0.078	<0.034	<0.043	<0.045	<0.052
	SV08A-091510	4	9/15/2010	P	<0.008	--	<0.008	<0.008	--	--	<0.008	<0.008	--	<0.008	<0.008	<0.008
SV09	SV09	5	11/4/2009	P	<0.008	--	**0.46**	<0.008	<0.008	<0.035	<0.008	<0.008	--	**13.1**	<0.008	<0.008
	SV09	5	9/15/2010	P	<0.058	**0.086**	--	**0.054**	--	--	--	<0.081	<0.035	**0.15**	<0.047	<0.054
	SV09-5' 1P	5	9/15/2010	1P	<0.008	--	<0.008	<0.008	--	--	<0.008	<0.008	--	**0.17**	<0.008	<0.008
	SV09-5' 3P	5	9/15/2010	3P	<0.008	--	<0.008	<0.008	--	--	<0.008	<0.008	--	**0.228**	<0.008	<0.008
	SV09-5' 10P	5	9/15/2010	10P	<0.008	--	<0.008	<0.008	--	--	<0.008	<0.008	--	**0.206**	<0.008	<0.008
SV19	SV19	4.4	11/4/2009	P	<0.008	--	<0.008	<0.008	<0.008	<0.035	<0.008	<0.008	--	**0.336**	<0.008	<0.008
SV22	SV22	3	11/3/2009	P	<0.008	--	**0.19**	<0.008	<0.008	<0.035	<0.008	<0.008	--	**1.19**	<0.008	<0.008
SV24	SV24	5.2	11/3/2009	P	<2.3	**42**	--	**100**	--	--	--	**5.7**	<1.4	**600**	<1.8	<2.1
	SV24-1P	5.2	11/3/2009	1P	**36.2**	--	**0.159**	**1.02**	<0.008	<0.035	<0.008	<0.008	--	**156**	<0.008	<0.008
	SV24-3P	5.2	11/3/2009	3P	**52.3**	--	**0.23**	**0.464**	<0.008	<0.035	<0.008	<0.008	--	**459**	<0.008	<0.008
	SV24-7P	5.2	11/3/2009	7P	**45.9**	--	**0.194**	**0.2**	<0.008	<0.035	<0.008	<0.008	--	**375**	<0.008	<0.008
	SV24-5.2'	5.2	9/15/2010	P	<0.008	--	<0.008	<0.008	--	--	<0.008	<0.008	--	**31.4**	<0.008	<0.008
SV25	SV25	3.2	11/5/2009	P	<0.008	--	<0.008	<0.008	<0.008	<0.035	<0.008	<0.008	--	<0.008	<0.008	<0.008
	SV25-3.2 1P	3.2	9/15/2010	1P	<0.008	--	<0.008	<0.008	--	--	<0.008	<0.008	--	<0.008	<0.008	<0.008
	SV25-3.2 3P	3.2	9/15/2010	3P	<0.008	--	<0.008	<0.008	--	--	<0.008	**0.024**	--	<0.008	<0.008	<0.008
	SV25-3.2 10P	3.2	9/15/2010	10P	<0.008	--	<0.008	<0.008	--	--	<0.008	**0.012**	--	<0.008	<0.008	<0.008
SV30	SV30	6	11/3/2009	P	<0.008	--	**0.118**	**0.463**	<0.008	<0.035	<0.008	<0.008	--	**3**	<0.008	<0.008
	SV30-6.0'	6	9/15/2010	P	<0.008	--	<0.008	<0.008	--	--	<0.008	<0.008	--	<0.008	<0.008	<0.008

TABLE A-9
ANALYTICAL DATA: VOLATILE ORGANIC COMPOUNDS IN SOIL VAPOR
TANK FARM AREA, POTRERO POWER PLANT
SAN FRANCISCO, CALIFORNIA

Location ID	Sample ID	Sample Depth (feet bgs)	Sample Date	Sample Type	Trichloro-ethene (TCE)	Trichlorofluoro-methane (Freon 11)	Vinyl Acetate	Vinyl Chloride	Xylenes
GB-135	GB-135-SV-4	4	12/18/2017	P	<0.0027	**0.019**	<0.007	<0.0013	<0.0087
GB-137	GB-137-SV-4	4	12/15/2017	P	<0.0027	**0.24**	<0.007	<0.0013	**0.014**
GB-141	GB-141-SV-8	8	12/15/2017	P	**0.056**	<0.0056	<0.007	<0.0013	**0.0078**
GB-142	GB-142-SV-6	6	12/14/2017	P	<0.0087	<0.018	<0.023	<0.0042	**0.045**
GB-143	GB-143-SV-6	6	12/14/2017	P	<0.047	<0.098	<0.12	<0.022	**0.20**
GB-145	GB-145-SV-5	5	12/14/2017	P	<0.0027	<0.0057	<0.0071	<0.0013	<0.0088
GB-146	GB-146-SV-7	7	12/18/2017	P	<0.013	<0.028	<0.035	<0.0064	**18**
GB-147	GB-147-SV-5	5	12/15/2017	P	<0.11	<0.22	<0.28	<0.051	**0.84**
GB-148	GB-148-SV-6	6	12/18/2017	P	<0.11	<0.22	<0.28	<0.051	**19**
GB-149A	GB-149A-SV-5	5	2/28/2018	P	<0.0027	**0.041**	<0.007	<0.0013	<0.0087
GB-150A	GB-150A-SV-5	5	2/28/2018	P	<0.0027	<0.0056	<0.007	**0.011**	**0.0026**
GB-151	GB-151-SV-5	5	12/18/2017	P	<0.11	<0.22	<0.28	<0.051	**0.15**
	GB-151-SV-8	8	12/18/2017	P	<0.11	<0.22	<0.28	<0.051	**19**
GB-152	GB-152-SV-6	6	12/14/2017	P	<0.0072	<0.015	<0.019	<0.0034	<0.023
GB-153	GB-153-SV-8	8	12/15/2017	P	<0.017	<0.035	<0.044	<0.008	<0.054
GB-154	GB-154-SV-5	5	12/18/2017	P	<0.0027	<0.0056	<0.007	<0.0013	<0.0087
	DUP-121817	5	12/18/2017	FD	<0.0027	<0.0056	<0.007	<0.0013	<0.0087
GB-155B	GB-155B-SV-5	5	2/27/2018	P	<0.11	<0.22	<0.28	<0.051	**0.99**
GB-155C	GB-155C-SV-3	3	2/28/2018	P	<0.011	<0.022	<0.028	<0.0051	<0.035
GB-156B	GB-156B-SV-5	5	2/28/2018	P	**0.0046**	<0.0056	<0.007	<0.0013	<0.0087
GB-174	GB-174-SV-5	5	2/28/2018	P	<0.0027 UJ	<0.0057 UJ	<0.0072	<0.0013	<0.0089
	DUP-022818	5	2/28/2018	FD	**0.025 J**	**0.046 J**	<0.007	<0.0013	<0.0087
SV08	SV08A	4	11/4/2009	P	<0.008	<0.008	--	<0.008	**0.060**
	SV08A	4	11/4/2009	P	<0.062	<0.064	--	<0.029	**0.051**
	SV08A-091510	4	9/15/2010	P	<0.008	<0.008	--	<0.008	<0.008
SV09	SV09	5	11/4/2009	P	<0.008	<0.008	--	<0.008	**1.44**
	SV09	5	9/15/2010	P	<0.064	<0.067	--	<0.03	**0.286**
	SV09-5' 1P	5	9/15/2010	1P	<0.008	<0.008	--	<0.008	**0.274**
	SV09-5' 3P	5	9/15/2010	3P	<0.008	<0.008	--	<0.008	**0.289**
	SV09-5' 10P	5	9/15/2010	10P	<0.008	<0.008	--	<0.008	**0.278**
SV19	SV19	4.4	11/4/2009	P	<0.008	<0.008	--	<0.008	<0.008
SV22	SV22	3	11/3/2009	P	<0.008	<0.008	--	<0.008	**2.39**
SV24	SV24	5.2	11/3/2009	P	<2.5	<2.6	--	<1.2	**172**
	SV24-1P	5.2	11/3/2009	1P	<0.008	<0.008	--	<0.008	**52.1**
	SV24-3P	5.2	11/3/2009	3P	<0.008	<0.008	--	<0.008	**136**
	SV24-7P	5.2	11/3/2009	7P	<0.008	<0.008	--	<0.008	**103**
	SV24-5.2'	5.2	9/15/2010	P	<0.008	<0.008	--	<0.008	**28.3**
SV25	SV25	3.2	11/5/2009	P	<0.008	<0.008	--	<0.008	<0.008
	SV25-3.2 1P	3.2	9/15/2010	1P	<0.008	<0.008	--	<0.008	<0.008
	SV25-3.2 3P	3.2	9/15/2010	3P	<0.008	<0.008	--	<0.008	<0.008
	SV25-3.2 10P	3.2	9/15/2010	10P	<0.008	<0.008	--	<0.008	<0.008
SV30	SV30	6	11/3/2009	P	<0.008	<0.008	--	<0.008	**1.13**
	SV30-6.0'	6	9/15/2010	P	<0.008	<0.008	--	<0.008	<0.008

TABLE A-10

ANALYTICAL DATA: TOTAL PETROLEUM HYDROCARBONS IN SOIL VAPOR

TANK FARM AREA, POTRERO POWER PLANT

SAN FRANCISCO, CALIFORNIA

Location ID	Sample ID	Sample Depth (feet bgs)	Sample Date	Sample Type	TPH (C5-C8) Aliphatic	TPH (C6-C8) Aromatic	TPH (C9-C16) Aromatic	TPH (C9-C18) Aliphatic
SV08	SV08A	4	11/4/2009	P	**41.3**	**0.269**	**0.077**	**9.38**
	SV08A-091510	4	9/15/2010	P	**69.4**	<0.2	**0.129**	**85.9**
SV09	SV09	5	11/4/2009	P	**78.7**	**253**	**7.22**	**30.3**
	SV09-5' 1P	5	9/15/2010	1P	**19.5**	**1.82**	**1.69**	**23.5**
	SV09-5' 3P	5	9/15/2010	3P	**23.4**	**2.79**	**1.82**	**24.1**
	SV09-5' 10P	5	9/15/2010	10P	**21.8**	**2.17**	**2.01**	**30.1**
SV19	SV19	4.4	11/4/2009	P	**0.353**	**0.388**	**0.156**	**1.58**
SV22	SV22	3	11/3/2009	P	**164**	**25.7**	**0.73**	**36**
SV24	SV24-1P	5.2	11/3/2009	1P	**6.33**	**807**	**48**	**24.8**
	SV24-3P	5.2	11/3/2009	3P	**23.5**	**1430**	**63.3**	**24.4**
	SV24-7P	5.2	11/3/2009	7P	**16.2**	**1150**	**53.4**	**18.6**
	SV24-5.2'	5.2	9/15/2010	P	<0.2	**466**	**305**	**72.3**
SV25	SV25	3.2	11/5/2009	P	<0.025	<0.025	<0.025	<0.025
	SV25-3.2 1P	3.2	9/15/2010	P	<0.2	<0.2	**0.066**	<0.2
	SV25-3.2 3P	3.2	9/15/2010	3P	<0.2	<0.2	**0.088**	<0.2
	SV25-3.2 10P	3.2	9/15/2010	10P	<0.2	<0.2	**0.063**	<0.2
SV30	SV30	6	11/3/2009	P	**3.94**	**7.01**	**2.07**	**0.556**
	SV30-6.0'	6	9/15/2010	P	<0.2	**0.076**	**1.37**	<0.2

Notes:

All analytical results are presented in milligrams per cubic meter (mg/m^3).

Detected results are presented in **bold**.

-- = Not analyzed for

< = Analyte was not detected at the given detection limit

1P, 3P, 7P, 10P = 1, 3, 7, or 10 volumes purged before the sample was collected. Samples collected from the same location, depth, and date with varying purge volumes were treated as duplicate samples.

P = Primary sample, number before the sample type indicates the number of volumes purged before samples were collected. Co-located samples collected with varying purge volumes were treated as duplicate samples.

TABLE B-8
ANALYTICAL DATA INCLUDED IN THE HHRA: VOLATILE ORGANIC COMPOUNDS IN SOIL VAPOR
Tank Farm Area, Potrero Power Plant
San Francisco, CA

Location ID	Sample ID	Sample Depth (feet bgs)	Sample Date	Sample Type	Sample Method	1,2,4-Trimethylbenzene	1,3,5-Trimethyl-benzene	2-Butanone (MEK)	4-Ethyltoluene	Acetone	Benzene	Carbon Disulfide	Chloroform	Chloromethane (methyl chloride)	cis-1,2-Dichloroethene (cis-1,2-DCE)	Dichloro-difluoromethane (Freon 12)
GB-135	GB-135-SV-4	4	12/18/2017	P	TO-15	<0.0074	<0.0025	<0.0044	<0.0025	**0.018**	**0.0017**	**0.0066**	**0.0045**	<0.001	<0.002	**0.0054**
GB-137	GB-137-SV-4	4	12/15/2017	P	TO-15	<0.0074	**0.0026**	<0.0044	<0.0025	**0.020**	**0.019**	**0.16**	**0.0028**	<0.001	<0.002	**0.1**
GB-141	GB-141-SV-8	8	12/15/2017	P	TO-15	<0.0074	<0.0025	**0.0051**	<0.0025	**0.033**	**0.073**	**0.16**	**0.029**	**0.0015**	<0.002	<0.0025
GB-142	GB-142-SV-6	6	12/14/2017	P	TO-15	<0.024	<0.008	<0.014	<0.008	<0.015	**0.065**	<0.02	<0.0079	<0.0034	<0.0064	<0.008
GB-143	GB-143-SV-6	6	12/14/2017	P	TO-15	**0.15**	**0.76**	<0.077	**0.27**	<0.083	**2.7**	**0.12**	**0.044**	<0.018	<0.034	<0.043
GB-145	GB-145-SV-5	5	12/14/2017	P	TO-15	<0.0074	<0.0025	<0.0045	<0.0025	**0.0082**	<0.0016	<0.0063	**0.0086**	<0.001	<0.002	<0.0025
GB-146	GB-146-SV-7	7	12/18/2017	P	TO-15	**3.9**	**1.6**	<0.022	**0.56**	**0.074**	**11**	**0.098**	<0.012	<0.0052	<0.0099	<0.012
GB-147	GB-147-SV-5	5	12/15/2017	P	TO-15	<0.29	<0.098	<0.18	<0.098	<0.19	**1.8**	<0.25	<0.098	<0.041	<0.079	<0.099
GB-148	GB-148-SV-6	6	12/18/2017	P	TO-15	**1.6**	**0.81**	<0.18	**0.55**	**0.61**	**280**	<0.25	<0.098	<0.041	<0.079	<0.099
GB-149A	GB-149A-SV-5	5	2/28/2018	P	TO-15	<0.0074	<0.0025	<0.0044	<0.0025	**0.0074**	**0.007**	<0.0062	<0.0024	<0.001	<0.002	<0.0025
GB-150A	GB-150A-SV-5	5	2/28/2018	P	TO-15	<0.0074	<0.0025	<0.0044	<0.0025	**0.063**	**0.0096**	**0.017**	<0.0024	<0.001	**0.0036**	<0.0025
GB-151	GB-151-SV-5	5	12/18/2017	P	TO-15	<0.29	<0.098	<0.18	<0.098	<0.19	**77 J**	<0.25	<0.098	<0.041	<0.079	<0.099
	GB-151-SV-8	8	12/18/2017	P	TO-15	**1.2**	**0.76**	<0.18	**1.7**	<0.19	**260**	<0.25	<0.098	<0.041	<0.079	<0.099
GB-152	GB-152-SV-6	6	12/14/2017	P	TO-15	<0.02	<0.0066	<0.012	<0.0066	<0.013	<0.0043	<0.017	<0.0065	<0.0028	<0.0053	<0.0066
GB-153	GB-153-SV-8	8	12/15/2017	P	TO-15	<0.046	<0.015	<0.028	<0.015	<0.03	**0.034**	**0.14**	<0.015	<0.0065	<0.012	<0.015
GB-154	GB-154-SV-5	5	12/18/2017	P	TO-15	<0.0074	<0.0025	<0.0044	<0.0025	<0.0048	<0.0016	<0.0062	**0.0028**	<0.001	<0.002	<0.0025
	DUP-121817	5	12/18/2017	FD	TO-15	<0.0074	<0.0025	<0.0044	<0.0025	**0.011**	<0.0016	<0.0062	**0.0026**	<0.001	<0.002	<0.0025
GB-155B/155C	GB-155C-SV-3	3	2/28/2018	P	TO-15	<0.029	<0.0098	<0.018	<0.0098	**0.080**	**0.038**	<0.025	**0.03**	<0.0041	<0.0079	<0.0099
	GB-155B-SV-5	5	2/27/2018	P	TO-15	<0.29	<0.098	<0.18	<0.098	<0.19	**5.2**	<0.25	<0.098	<0.041	<0.079	<0.099
GB-156B	GB-156B-SV-5	5	2/28/2018	P	TO-15	<0.0074	<0.0025	<0.0044	<0.0025	**0.012**	<0.0016	<0.0062	**0.0084**	<0.001	<0.002	**0.0037**
GB-174	GB-174-SV-5	5	2/28/2018	P	TO-15	<0.0075	<0.0025	<0.0045	<0.0025	**0.043**	<0.0016	<0.0064	**0.0069 J**	<0.0011	<0.002	<0.0025
	DUP-022818	5	2/28/2018	FD	TO-15	<0.0074	<0.0025	**0.0081**	<0.0025	**0.030**	<0.0016	<0.0062	<0.0024 UJ	<0.001	<0.002	<0.0025
SV19	SV19	4.4	11/4/2009	P	8260B	<0.008	<0.008	--	--	--	**0.052**	--	<0.008	<0.008	<0.008	<0.008
SV22	SV22	3	11/3/2009	P	8260B	**0.392**	**0.15**	--	--	--	**22**	--	<0.008	<0.008	<0.008	<0.008
SV25	SV25	3.2	11/5/2009	P	8260B	<0.008	<0.008	--	--	--	<0.008	--	<0.008	<0.008	<0.008	<0.008
	SV25-3.2 1P	3.2	9/15/2010	1P	8260B	<0.008	<0.008	--	--	--	<0.008	--	<0.008	<0.008	<0.008	<0.008
	SV25-3.2 3P	3.2	9/15/2010	3P	8260B	<0.008	<0.008	--	--	--	<0.008	--	<0.008	<0.008	<0.008	<0.008
	SV25-3.2 10P	3.2	9/15/2010	10P	8260B	<0.008	<0.008	--	--	--	<0.008	--	<0.008	<0.008	<0.008	<0.008

TABLE B-8
ANALYTICAL DATA INCLUDED IN THE HHRA: VOLATILE ORGANIC COMPOUNDS IN SOIL VAPOR
Tank Farm Area, Potrero Power Plant
San Francisco, CA

Location ID	Sample ID	Sample Depth (feet bgs)	Sample Date	Sample Type	Ethanol	Ethylbenzene	Hexane	m,p-Xylenes	Methyl tert-butyl ether (MTBE)	Naphthalene[a]	o-Xylene	sec-Butylbenzene	Styrene	Tetrachloro-ethene	Toluene	Trichloro-ethene (TCE)
GB-135	GB-135-SV-4	4	12/18/2017	P	**0.011**	<0.0022	--	<0.0087	<0.0072	<0.026	<0.0022	--	<0.0064	**0.35**	<0.0019	<0.0027
GB-137	GB-137-SV-4	4	12/15/2017	P	<0.0094	**0.011**	--	**0.011**	<0.0072	<0.026	**0.0031**	--	<0.0064	<0.0034	**0.0053**	<0.0027
GB-141	GB-141-SV-8	8	12/15/2017	P	<0.0094	**0.015**	--	<0.0087	**0.016**	<0.026	**0.0078**	--	<0.0064	<0.0034	**0.0098**	**0.056**
GB-142	GB-142-SV-6	6	12/14/2017	P	<0.031	**0.047**	--	**0.034**	<0.023	<0.085	**0.011**	--	<0.021	<0.011	**0.031**	<0.0087
GB-143	GB-143-SV-6	6	12/14/2017	P	<0.16	**1.4**	--	<0.15	<0.13	<0.46	**0.2**	--	<0.11	<0.059	**0.17**	<0.047
GB-145	GB-145-SV-5	5	12/14/2017	P	<0.0095	<0.0022	--	<0.0088	<0.0073	<0.026	<0.0022	--	<0.0065	**0.0077**	**0.0037**	<0.0027
GB-146	GB-146-SV-7	7	12/18/2017	P	<0.047	**16**	--	**10**	<0.036	**13**	**7.5**	--	**0.13**	<0.017	**3.7**	<0.013
GB-147	GB-147-SV-5	5	12/15/2017	P	<0.38	**0.44**	--	**0.58**	<0.29	<1	**0.26**	--	<0.26	<0.14	**0.59**	<0.11
GB-148	GB-148-SV-6	6	12/18/2017	P	<0.38	**21 J**	--	**12**	<0.29	**4.1 J**	**6.7**	--	**0.70**	<0.14	**17 J**	<0.11
GB-149A	GB-149A-SV-5	5	2/28/2018	P	<0.0094	<0.0022	--	<0.0087	<0.0072	<0.026	<0.0022	--	<0.0064	<0.0034	<0.0019	<0.0027
GB-150A	GB-150A-SV-5	5	2/28/2018	P	<0.0094	**0.0046**	--	<0.0087	<0.0072	**0.085**	**0.0026**	--	<0.0064	**0.0064**	**0.0066**	<0.0027
GB-151	GB-151-SV-5	5	12/18/2017	P	<0.38	**1.1**	--	<0.35	<0.29	**5.6**	**0.15**	--	<0.26	<0.14	**0.64**	<0.11
	GB-151-SV-8	8	12/18/2017	P	<0.38	**70**	--	**12**	<0.29	**3.7**	**7.4**	--	**0.34**	<0.14	**7.9**	<0.11
GB-152	GB-152-SV-6	6	12/14/2017	P	<0.025	<0.0058	--	<0.023	<0.019	<0.07	<0.0058	--	<0.017	<0.0091	<0.005	<0.0072
GB-153	GB-153-SV-8	8	12/15/2017	P	<0.059	**0.016**	--	<0.054	<0.045	<0.16	<0.014	--	<0.04	<0.021	**0.021**	<0.017
GB-154	GB-154-SV-5	5	12/18/2017	P	<0.0094	<0.0022	--	<0.0087	<0.0072	<0.026	<0.0022	--	<0.0064	**0.24**	<0.0019	<0.0027
	DUP-121817	5	12/18/2017	FD	<0.0094	<0.0022	--	<0.0087	<0.0072	<0.026	<0.0022	--	<0.0064	**0.24**	<0.0019	<0.0027
GB-155B/155C	GB-155C-SV-3	3	2/28/2018	P	<0.038	**0.01 J**	--	<0.035	<0.029	<0.1	<0.0087	--	<0.026	<0.014	**0.0088**	<0.011
	GB-155B-SV-5	5	2/27/2018	P	<0.38	**0.41**	--	**0.64**	<0.29	**1.6**	**0.35**	--	<0.26	<0.14	**1.0**	<0.11
GB-156B	GB-156B-SV-5	5	2/28/2018	P	<0.0094	<0.0022	--	<0.0087	<0.0072	<0.026	<0.0022	--	<0.0064	<0.0034	<0.0019	**0.0046**
GB-174	GB-174-SV-5	5	2/28/2018	P	**0.12 J**	<0.0022	--	<0.0089	<0.0074	<0.027	<0.0022	--	<0.0065	<0.0035	<0.0019	<0.0027 UJ
	DUP-022818	5	2/28/2018	FD	<0.0094 UJ	<0.0022	--	<0.0087	<0.0072	<0.026	<0.0022	--	<0.0064	<0.0034	<0.0019	**0.025 J**
SV19	SV19	4.4	11/4/2009	P	--	<0.008	**0.35**	--	<0.008	**0.16**	--	<0.008	<0.008	<0.008	**0.34**	<0.008
SV22	SV22	3	11/3/2009	P	--	<0.008	**1.8**	--	<0.008	<0.008	--	**0.19**	<0.008	<0.008	**1.2**	<0.008
SV25	SV25	3.2	11/5/2009	P	--	<0.008	<0.008	--	<0.008	<0.008	--	<0.008	<0.008	<0.008	<0.008	<0.008
	SV25-3.2 1P	3.2	9/15/2010	1P	--	<0.008	--	--	<0.008	**0.066**	--	<0.008	<0.008	<0.008	<0.008	<0.008
	SV25-3.2 3P	3.2	9/15/2010	3P	--	<0.008	--	--	<0.008	**0.088**	--	<0.008	<0.008	**0.024**	<0.008	<0.008
	SV25-3.2 10P	3.2	9/15/2010	10P	--	<0.008	--	--	<0.008	**0.063**	--	<0.008	<0.008	**0.012**	<0.008	<0.008

TABLE B-8
ANALYTICAL DATA INCLUDED IN THE HHRA: VOLATILE ORGANIC COMPOUNDS IN SOIL VAPOR
Tank Farm Area, Potrero Power Plant
San Francisco, CA

Location ID	Sample ID	Sample Depth (feet bgs)	Sample Date	Sample Type	Trichloro-fluoromethane (Freon 11)	Vinyl Chloride	Xylenes
GB-135	GB-135-SV-4	4	12/18/2017	P	**0.019**	<0.0013	<0.0087
GB-137	GB-137-SV-4	4	12/15/2017	P	**0.24**	<0.0013	**0.014**
GB-141	GB-141-SV-8	8	12/15/2017	P	<0.0056	<0.0013	**0.0078**
GB-142	GB-142-SV-6	6	12/14/2017	P	<0.018	<0.0042	**0.045**
GB-143	GB-143-SV-6	6	12/14/2017	P	<0.098	<0.022	**0.20**
GB-145	GB-145-SV-5	5	12/14/2017	P	<0.0057	<0.0013	<0.0088
GB-146	GB-146-SV-7	7	12/18/2017	P	<0.028	<0.0064	**18**
GB-147	GB-147-SV-5	5	12/15/2017	P	<0.22	<0.051	**0.84**
GB-148	GB-148-SV-6	6	12/18/2017	P	<0.22	<0.051	**19**
GB-149A	GB-149A-SV-5	5	2/28/2018	P	**0.041**	<0.0013	<0.0087
GB-150A	GB-150A-SV-5	5	2/28/2018	P	<0.0056	**0.011**	**0.0026**
GB-151	GB-151-SV-5	5	12/18/2017	P	<0.22	<0.051	**0.15**
	GB-151-SV-8	8	12/18/2017	P	<0.22	<0.051	**19**
GB-152	GB-152-SV-6	6	12/14/2017	P	<0.015	<0.0034	<0.023
GB-153	GB-153-SV-8	8	12/15/2017	P	<0.035	<0.008	<0.054
GB-154	GB-154-SV-5	5	12/18/2017	P	<0.0056	<0.0013	<0.0087
	DUP-121817	5	12/18/2017	FD	<0.0056	<0.0013	<0.0087
GB-155B/155C	GB-155C-SV-3	3	2/28/2018	P	<0.022	<0.0051	<0.035
	GB-155B-SV-5	5	2/27/2018	P	<0.22	<0.051	**0.99**
GB-156B	GB-156B-SV-5	5	2/28/2018	P	<0.0056	<0.0013	<0.0087
GB-174	GB-174-SV-5	5	2/28/2018	P	<0.0057 UJ	<0.0013	<0.0089
	DUP-022818	5	2/28/2018	FD	**0.046 J**	<0.0013	<0.0087
SV19	SV19	4.4	11/4/2009	P	<0.008	<0.008	<0.008
SV22	SV22	3	11/3/2009	P	<0.008	<0.008	**2.4**
SV25	SV25	3.2	11/5/2009	P	<0.008	<0.008	<0.008
	SV25-3.2 1P	3.2	9/15/2010	1P	<0.008	<0.008	<0.008
	SV25-3.2 3P	3.2	9/15/2010	3P	<0.008	<0.008	<0.008
	SV25-3.2 10P	3.2	9/15/2010	10P	<0.008	<0.008	<0.008

TABLE B-8
ANALYTICAL DATA INCLUDED IN THE HHRA: VOLATILE ORGANIC COMPOUNDS IN SOIL VAPOR
Tank Farm Area, Potrero Power Plant
San Francisco, CA

Notes:
All analytical results are presented in milligrams per cubic meter (mg/m^3).
Detected results are presented in **bold**.
Shaded results = Results for the soil vapor samples collected at 8 feet bgs at GB-151 and 5 feet bgs at GB-155B/155C below a concrete slab were not included in the dataset used to estimate outdoor air concentrations specifically for current off-site workers; concentrations above the slab from these locations were lower and considered more representative of source concentrations to outdoor air for these receptors under current Site conditions. Results for the soil vapor samples collected below the concrete slab were included in the dataset used to estimate outdoor air concentrations for hypothetical future on-site receptors assuming the concrete slab could be removed during redevelopment.

-- = Not analyzed for
< = Analyte was not detected at the given detection limit
bgs = Below ground surface
1P, 3P, 7P, 10P = 1, 3, 7, or 10 volumes purged before the sample was collected. Samples collected from the same location, depth, and date with varying purge volumes were treated as duplicate samples.
FD = Field duplicate
P = Primary sample; number before the sample type indicates the number of volumes purged before samples were collected.
J = Estimated value
J- = Estimated value; biased low.
[a] Polycyclic aromatic hydrocarbons (PAHs) napthalene and 2-methylnaphthalene were also analyzed for in September 2009 soil vapor samples using USEPA Method TO-17 (sample locations SV22 and SV25). Naphthalene was detected at one of these sample locations (SV22) at concentrations of 0.16 mg/m^3; 2-methylnaphthalene was not detected.

TABLE B-9

ANALYTICAL DATA INCLUDED IN THE HHRA: TOTAL PETROLEUM HYDROCARBONS IN SOIL VAPOR

TANK FARM AREA, POTRERO POWER PLANT

SAN FRANCISCO, CALIFORNIA

Location ID	Sample ID	Sample Depth (feet bgs)	Sample Date	Sample Type	TPH (C5-C8) Aliphatic	TPH (C6-C8) Aromatic	TPH (C9-C16) Aromatic	TPH (C9-C18) Aliphatic
SV19	SV19	4.4	11/4/2009	P	**0.353**	**0.388**	**0.156**	**1.58**
SV22	SV22	3	11/3/2009	P	**164**	**25.7**	**0.73**	**36**
SV25	SV25	3.2	11/5/2009	P	<0.025	<0.025	<0.025	<0.025
	SV25-3.2 1P	3.2	9/15/2010	P	<0.2	<0.2	**0.066**	<0.2
	SV25-3.2 3P	3.2	9/15/2010	3P	<0.2	<0.2	**0.088**	<0.2
	SV25-3.2 10P	3.2	9/15/2010	10P	<0.2	<0.2	**0.063**	<0.2

Notes:

All analytical results are presented in milligrams per cubic meter (mg/m^3).

Detected results are presented in **bold**.

-- = Not analyzed for

< = Analyte was not detected at the given detection limit

1P, 3P, 7P, 10P = 1, 3, 7, or 10 volumes purged before the sample was collected. Samples collected from the same location, depth, and date with varying purge volumes were treated as duplicate samples.

P = Primary sample, number before the sample type indicates the number of volumes purged before samples were collected. Co-located samples collected with varying purge volumes were treated as duplicate samples.

ATTACHMENT A4

Northeast Area Post Remediation Soil Vapor Data

POST-REMEDIATION PERFORMANCE MONITORING AND CONDITIONS REPORT
NORTHEAST AREA OF THE POTRERO POWER PLANT SITE

San Francisco, California

March 31, 2020

prepared for

Pacific Gas and Electric Company®

3401 Crow Canyon Road
San Ramon, California 94583

prepared by

TERRA PACIFIC GROUP
Environmental Engineering, Consulting, and Construction

13900 Alton Parkway, Suite 122
Irvine, California 92618

Project No. PGE-1087-1001

Table 5-6
Summary of Detected VOCs in Soil Vapor Samples
Potrero Power Plant Site - Northeast Area
San Francisco, California

Boring/Soil Vapor Probe ID	PSV-01	PSV-02	PSV-03	PSV-04		PSV-05	
Sample ID	PSV-01-2.25	PSV-02-5.0	PSV-03-3.0	PSV-04-4.0	PSV-04-8.0	PSV-05-4.0	PSV-05-8.0
Date Sampled	5/29/19	5/29/19	5/29/19	5/29/19	5/29/19	5/29/19	5/29/19
Sample Depth (feet bgs)	2.25	5	3	4	8	4	8
1,2,4-Trimethylbenzene	<3.9	<3.9	<3.9	<3.9	<0.98	<3.9	<3.9
2,2,4-Trimethylpentane	<3.7	<3.7	<3.7	<3.7	<0.93	<3.7	<3.7
Acetone	<48	<48	<48	<48	<12	<48	<48
Benzene	<2.6	<2.6	2.6	<2.6	<0.64	<2.6	<2.6
Carbon disulfide	34	<6.2	11	<6.2	<1.6	<6.2	25
Chlorobenzene	<3.7	<3.7	<3.7	<3.7	<0.92	<3.7	<3.7
Chloroform	7.1	<3.9	4.7	<3.9	<0.98	<3.9	<3.9
Cyclohexane	<2.8	<2.8	<2.8	<2.8	<0.69	<2.8	<2.8
Dichlorodifluoromethane	<9.9	10	14	16	3.1	<9.9	<9.9
Ethylbenzene	<3.5	<3.5	<3.5	<3.5	<0.87	<3.5	<3.5
m,p-Xylene	<8.7	<8.7	<8.7	<8.7	<2.2	<8.7	<8.7
Methyl Ethyl Ketone	<5.9	<5.9	<5.9	<5.9	<1.5	<5.9	<5.9
Naphthalene	<10	<10	21	<10	<2.6	<10	<10
n-Hexane	<2.8	<2.8	<2.8	<2.8	<0.70	<2.8	<2.8
n-Propylbenzene	<3.9	<3.9	<3.9	<3.9	<0.98	<3.9	<3.9
sec-Butylbenzene	<4.4	<4.4	<4.4	<4.4	<1.1	<4.4	<4.4
Tetrachloroethene	25	<5.4	130	<5.4	<1.4	<5.4	<5.4
Toluene	<3.0	<3.0	<3.0	<3.0	0.75	<3.0	<3.0
Trichloroethene	8.3	<4.3	32	<4.3	<1.1	<4.3	<4.3
Trichlorofluoromethane	<4.5	<4.5	16	<4.5	<1.1	<4.5	<4.5
Xylene, o-	<3.5	<3.5	<3.5	<3.5	<0.87	<3.5	<3.5
Other VOCs	ND	ND	ND	ND	ND	ND	ND

Table 5-6
Summary of Detected VOCs in Soil Vapor Samples
Potrero Power Plant Site - Northeast Area
San Francisco, California

Boring/Soil Vapor Probe ID	PSV-06		PSV-07		PSV-08	
Sample ID	PSV-06-4.0	PSV-06-8.0	PSV-07-4.0	PSV-07-8.0	PSV-08-4.0	DUP-052919
Date Sampled	5/29/19	5/29/19	5/29/19	5/29/19	5/29/19	5/29/19
Sample Depth (feet bgs)	4	8	4	8	4	4
1,2,4-Trimethylbenzene	<3.9	<3.9	<5,900	**290**	<3.9	<3.9
2,2,4-Trimethylpentane	<3.7	<3.7	<5,600	**2,000**	<3.7	<3.7
Acetone	<48	<48	<71,000	<3,100	**110**	**120**
Benzene	**7.8**	**150**	**170,000**	**18,000**	**11**	**17**
Carbon disulfide	**11**	<6.2	<9,300	<410	**34**	**55**
Chlorobenzene	<3.7	<3.7	<5,500	**1,400**	<3.6	<3.7
Chloroform	<3.9	<3.9	<5,900	<260	**6.8**	**9.1**
Cyclohexane	<2.8	**3.1**	<4,100	**2,900**	**6.1**	**8.9**
Dichlorodifluoromethane	<9.9	<9.9	<15,000	<660	<9.7	<9.9
Ethylbenzene	<3.5	**5.9**	**12,000**	**1,600**	<3.4	<3.5
m,p-Xylene	<8.7	<8.7	<13,000	**1,200**	<8.5	<8.7
Methyl Ethyl Ketone	<5.9	<5.9	<8,800	<390	**12**	**11**
Naphthalene	<10	<10	**330,000**	**55,000**	**43**	**51**
n-Hexane	<2.8	<2.8	<4,200	<190	**4.0**	<2.8
n-Propylbenzene	<3.9	<3.9	<5,900	**780**	<3.9	<3.9
sec-Butylbenzene	<4.4	<4.4	<6,600	**780**	<4.3	<4.4
Tetrachloroethene	<5.4	<5.4	<8,100	<360	<5.3	**19**
Toluene	<3.0	**9.2**	**11,000**	**1,700**	**5.1**	**7.8**
Trichloroethene	<4.3	<4.3	<6,400	<280	<4.2	<4.3
Trichlorofluoromethane	<4.5	<4.5	<6,700	<300	<4.4	<4.5
Xylene, o-	<3.5	<3.5	<5,200	**650**	<3.4	<3.5
Other VOCs	ND	ND	ND	ND	ND	ND

Notes:
All analytical results are presented in micrograms per cubic meter (µg/m3)
Detected results are presented in **bold**
"<#" indicates that analyte was not detected at or above stated laboratory reporting limit
DUP = duplicate
ND = Not detected
VOC = volatile organic compounds

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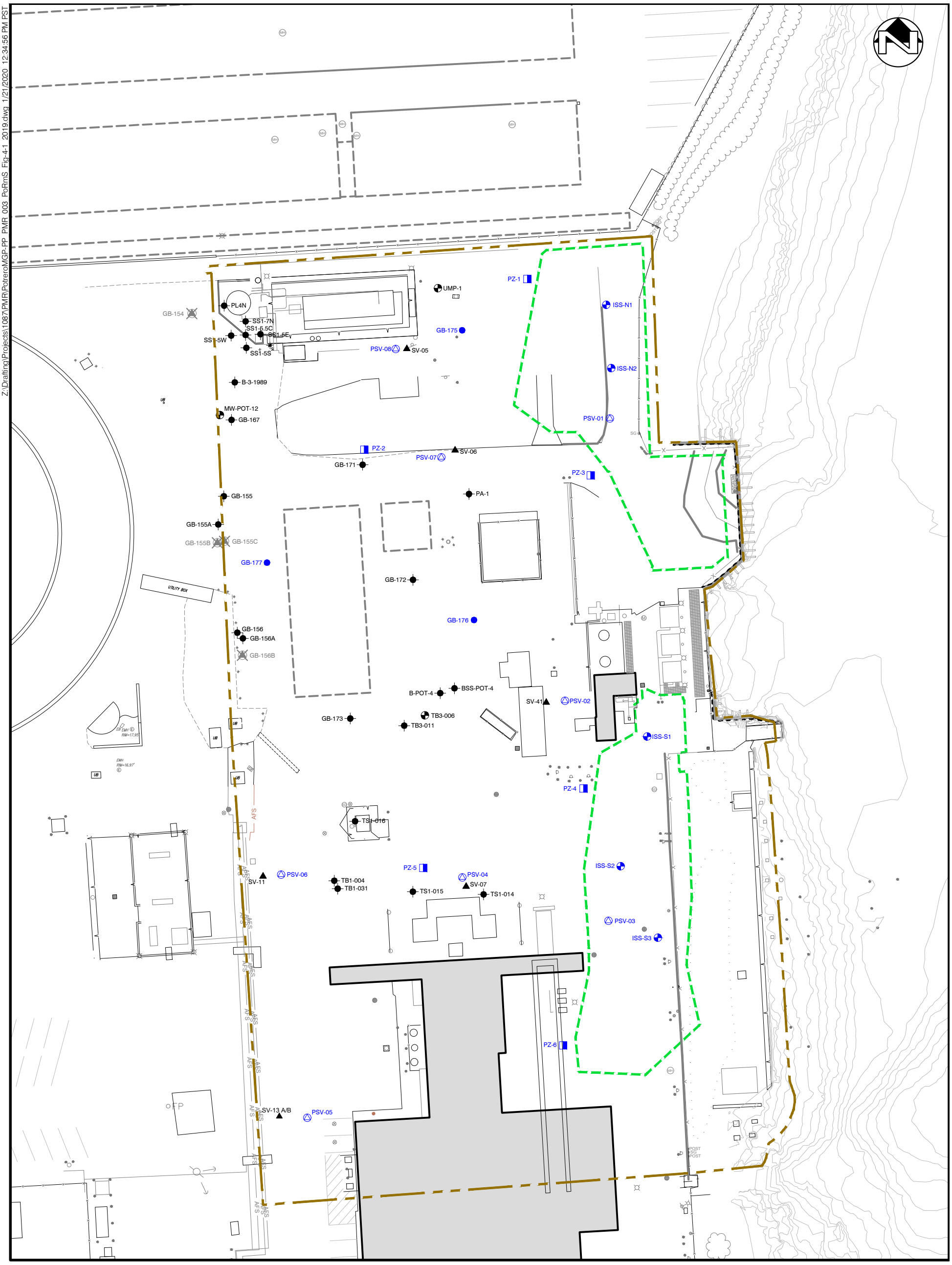

EXPLANATION

- PIEZOMETER (TPG, 2019)
- GROUNDWATER MONITORING WELL (TPG, 2019)
- SOIL VAPOR PROBE (TPG, 2019)
- BORING (TPG, 2019)
- GROUNDWATER MONITORING WELL
- PREVIOUS SOIL VAPOR PROBE
- PREVIOUS BORING
- DESTROYED SOIL VAPOR WELL
- NORTHEAST AREA BOUNDARY
- ISS AREA
- FORMER BUILDING
- EXISTING BUILDING

0 50 100 FEET
APPROXIMATE SCALE

NOTES:
1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. BASE MAP SOURCED FROM: RJL & ASSOCIATE, 2015 AND HALEY & ALDRICH 2018

FIGURE 3-1

SAMPLE LOCATIONS REPRESENTATIVE OF POST-REMEDIATION CONDITIONS

POTRERO POWER PLANT - NORTHEAST AREA
SAN FRANCISCO, CALIFORNIA

TERRA PACIFIC GROUP
Environmental Engineering, Consulting, and Construction

Sample locations GB-154, -155, and -156 were evaluated for the Northeast Area specific vapor intruson risk assessment given the proximity of these sample locations to the Northeast Area boundary.

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HUMAN HEALTH RISK ASSESSMENT
TANK FARM AREA, POTRERO POWER PLANT SITE
SAN FRANCISCO, CALIFORNIA

by
Haley & Aldrich, Inc.
Oakland, California

for
Pacific Gas and Electric Company
San Francisco, California

DRAFT

File No. 133385-002
May 2019

TABLE A-9
ANALYTICAL DATA: VOLATILE ORGANIC COMPOUNDS IN SOIL VAPOR
TANK FARM AREA, POTRERO POWER PLANT
SAN FRANCISCO, CALIFORNIA

Analytical results from sample locations GB-154, -155, and -156 from within the Tank Farm were evaluated for the Northeast-Area specific vapor intrusion risk assessment given the proximity of these locations to the Northeast Area boundary.

Location ID	Sample ID	Sample Depth (feet bgs)	Sample Date	Sample Type	Sample Method	1,1,1,2-Tetrachloro-ethane	1,1,1-Trichloro-ethane	1,1,2,2-Tetrachloro-ethane	1,1,2-Trichloro-ethane	1,1,2-Trichloro-trifluoroethane (Freon 113)	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloro-propene	1,2,3-Trichloro-benzene	1,2,3-Trichloro-propane	1,2,4-Trichloro-benzene
GB-135	GB-135-SV-4	4	12/18/2017	P	TO-15	--	<0.0027	<0.0069	<0.0027	<0.011	<0.002	<0.002	--	--	--	<0.015
GB-137	GB-137-SV-4	4	12/15/2017	P	TO-15	--	<0.0027	<0.0069	<0.0027	<0.011	<0.002	<0.002	--	--	--	<0.015
GB-141	GB-141-SV-8	8	12/15/2017	P	TO-15	--	<0.0027	<0.0069	<0.0027	<0.011	<0.002	<0.002	--	--	--	<0.015
GB-142	GB-142-SV-6	6	12/14/2017	P	TO-15	--	<0.0089	<0.022	<0.0089	<0.037	<0.0066	<0.0064	--	--	--	<0.048
GB-143	GB-143-SV-6	6	12/14/2017	P	TO-15	--	<0.047	<0.12	<0.047	<0.2	<0.035	<0.034	--	--	--	<0.26
GB-145	GB-145-SV-5	5	12/14/2017	P	TO-15	--	<0.0028	<0.0069	<0.0028	<0.012	<0.002	<0.002	--	--	--	<0.015
GB-146	GB-146-SV-7	7	12/18/2017	P	TO-15	--	<0.014	<0.034	<0.014	<0.057	<0.01	<0.0099	--	--	--	<0.074
GB-147	GB-147-SV-5	5	12/15/2017	P	TO-15	--	<0.11	<0.27	<0.11	<0.46	<0.081	<0.079	--	--	--	<0.59
GB-148	GB-148-SV-6	6	12/18/2017	P	TO-15	--	<0.11	<0.27	<0.11	<0.46	<0.081	<0.079	--	--	--	<0.59
GB-149A	GB-149A-SV-5	5	2/28/2018	P	TO-15	--	<0.0027	<0.0069	<0.0027	<0.011	<0.002	<0.002	--	--	--	<0.015
GB-150A	GB-150A-SV-5	5	2/28/2018	P	TO-15	--	<0.0027	<0.0069	<0.0027	<0.011	<0.002	<0.002	--	--	--	<0.015
GB-151	GB-151-SV-5	5	12/18/2017	P	TO-15	--	<0.11	<0.27	<0.11	<0.46	<0.081	<0.079	--	--	--	<0.59
	GB-151-SV-8	8	12/18/2017	P	TO-15	--	<0.11	<0.27	<0.11	<0.46	<0.081	<0.079	--	--	--	<0.59
GB-152	GB-152-SV-6	6	12/14/2017	P	TO-15	--	<0.0073	<0.018	<0.0073	<0.031	<0.0054	<0.0053	--	--	--	<0.04
GB-153	GB-153-SV-8	8	12/15/2017	P	TO-15	--	<0.017	<0.043	<0.017	<0.072	<0.013	<0.012	--	--	--	<0.093
GB-154	GB-154-SV-5	5	12/18/2017	P	TO-15	--	<0.0027	<0.0069	<0.0027	<0.011	<0.002	<0.002	--	--	--	<0.015
	DUP-121817	5	12/18/2017	FD	TO-15	--	<0.0027	<0.0069	<0.0027	<0.011	<0.002	<0.002	--	--	--	<0.015
GB-155B	GB-155B-SV-5	5	2/27/2018	P	TO-15	--	<0.11	<0.27	<0.11	<0.46	<0.081	<0.079	--	--	--	<0.59
GB-155C	GB-155C-SV-3	3	2/28/2018	P	TO-15	--	<0.011	<0.027	<0.011	<0.046	<0.0081	<0.0079	--	--	--	<0.059
GB-156B	GB-156B-SV-5	5	2/28/2018	P	TO-15	--	<0.0027	<0.0069	<0.0027	<0.011	<0.002	<0.002	--	--	--	<0.015
GB-174	GB-174-SV-5	5	2/28/2018	P	TO-15	--	<0.0028	<0.007	<0.0028	<0.012	<0.0021	<0.002	--	--	--	<0.015
	DUP-022818	5	2/28/2018	FD	TO-15	--	<0.0027	<0.0069	<0.0027	<0.011	<0.002	<0.002	--	--	--	<0.015
SV08	SV08A	4	11/4/2009	P	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008
	SV08A	4	11/4/2009	P	TO-15	--	<0.062	<0.079	<0.062	<0.088	<0.046	<0.045	--	--	--	<0.34
	SV08A-091510	4	9/15/2010	P	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008
SV09	SV09	5	11/4/2009	P	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008
	SV09	5	9/15/2010	P	TO-15	--	<0.065	<0.082	<0.065	<0.091	<0.048	<0.047	--	--	--	<0.35
	SV09-5' 1P	5	9/15/2010	1P	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008
	SV09-5' 3P	5	9/15/2010	3P	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008
	SV09-5' 10P	5	9/15/2010	10P	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008
SV19	SV19	4.4	11/4/2009	P	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008
SV22	SV22	3	11/3/2009	P	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008
SV24	SV24	5.2	11/3/2009	P	TO-15	--	<2.5	<3.2	<2.5	<3.6	<1.9	<1.8	--	--	--	<14
	SV24-1P	5.2	11/3/2009	1P	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008
	SV24-3P	5.2	11/3/2009	3P	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008
	SV24-7P	5.2	11/3/2009	7P	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008
	SV24-5.2'	5.2	9/15/2010	P	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008
SV25	SV25	3.2	11/5/2009	P	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008
	SV25-3.2 1P	3.2	9/15/2010	1P	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008
	SV25-3.2 3P	3.2	9/15/2010	3P	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008
	SV25-3.2 10P	3.2	9/15/2010	10P	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008
SV30	SV30	6	11/3/2009	P	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008
	SV30-6.0'	6	9/15/2010	P	8260B	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008

TABLE A-9
ANALYTICAL DATA: VOLATILE ORGANIC COMPOUNDS IN SOIL VAPOR
TANK FARM AREA, POTRERO POWER PLANT
SAN FRANCISCO, CALIFORNIA

Analytical results from sample locations GB-154, -155, and -156 from within the Tank Farm were evaluated for the Northeast-Area specific vapor intrusion risk assessment given the proximity of these locations to the Northeast Area boundary.

Location ID	Sample ID	Sample Depth (feet bgs)	Sample Date	Sample Type	1,2,4-Trimethyl-benzene	1,2-Dibromo-3-Chloropropane (DBCP)	1,2-Dibromoethane (EDB)	1,2-Dichloro-benzene	1,2-Dichloroethane	1,2-Dichloro-propane	1,2-Dichlorotetra-fluoroethane (Freon 114)	1,3,5-Trimethyl-benzene	1,3-Butadiene	1,3-Dichloro-benzene	1,3-Dichloro-propane	1,3-Dichloro-propene
GB-135	GB-135-SV-4	4	12/18/2017	P	<0.0074	--	<0.0038	<0.003	<0.002	<0.0023	<0.014	<0.0025	--	<0.003	--	--
GB-137	GB-137-SV-4	4	12/15/2017	P	<0.0074	--	<0.0038	<0.003	<0.002	<0.0023	<0.014	**0.0026**	--	<0.003	--	--
GB-141	GB-141-SV-8	8	12/15/2017	P	<0.0074	--	<0.0038	<0.003	<0.002	<0.0023	<0.014	<0.0025	--	<0.003	--	--
GB-142	GB-142-SV-6	6	12/14/2017	P	<0.024	--	<0.012	<0.0098	<0.0066	<0.0075	<0.045	<0.008	--	<0.0098	--	--
GB-143	GB-143-SV-6	6	12/14/2017	P	**0.15**	--	<0.067	<0.052	<0.035	<0.04	<0.24	**0.76**	--	<0.052	--	--
GB-145	GB-145-SV-5	5	12/14/2017	P	<0.0074	--	<0.0039	<0.003	<0.002	<0.0023	<0.014	<0.0025	--	<0.003	--	--
GB-146	GB-146-SV-7	7	12/18/2017	P	**3.9**	--	<0.019	<0.015	<0.01	<0.012	<0.07	**1.6**	--	<0.015	--	--
GB-147	GB-147-SV-5	5	12/15/2017	P	<0.29	--	<0.15	<0.12	<0.081	<0.092	<0.56	<0.098	--	<0.12	--	--
GB-148	GB-148-SV-6	6	12/18/2017	P	**1.6**	--	<0.15	<0.12	<0.081	<0.092	<0.56	**0.81**	--	<0.12	--	--
GB-149A	GB-149A-SV-5	5	2/28/2018	P	<0.0074	--	<0.0038	<0.003	<0.002	<0.0023	<0.014	<0.0025	--	<0.003	--	--
GB-150A	GB-150A-SV-5	5	2/28/2018	P	<0.0074	--	<0.0038	<0.003	<0.002	<0.0023	<0.014	<0.0025	--	<0.003	--	--
GB-151	GB-151-SV-5	5	12/18/2017	P	<0.29	--	<0.15	<0.12	<0.081	<0.092	<0.56	<0.098	--	<0.12	--	--
	GB-151-SV-8	8	12/18/2017	P	**1.2**	--	<0.15	<0.12	<0.081	<0.092	<0.56	**0.76**	--	<0.12	--	--
GB-152	GB-152-SV-6	6	12/14/2017	P	<0.02	--	<0.01	<0.0081	<0.0054	<0.0062	<0.037	<0.0066	--	<0.0081	--	--
GB-153	GB-153-SV-8	8	12/15/2017	P	<0.046	--	<0.024	<0.019	<0.013	<0.014	<0.087	<0.015	--	<0.019	--	--
GB-154	GB-154-SV-5	5	12/18/2017	P	<0.0074	--	<0.0038	<0.003	<0.002	<0.0023	<0.014	<0.0025	--	<0.003	--	--
	DUP-121817	5	12/18/2017	FD	<0.0074	--	<0.0038	<0.003	<0.002	<0.0023	<0.014	<0.0025	--	<0.003	--	--
GB-155B	GB-155B-SV-5	5	2/27/2018	P	<0.29	--	<0.15	<0.12	<0.081	<0.092	<0.56	<0.098	--	<0.12	--	--
GB-155C	GB-155C-SV-3	3	2/28/2018	P	<0.029	--	<0.069	<0.012	<0.0081	<0.0092	<0.056	<0.0098	--	<0.012	--	--
GB-156B	GB-156B-SV-5	5	2/28/2018	P	<0.0074	--	<0.0038	<0.003	<0.002	<0.0023	<0.014	<0.0025	--	<0.003	--	--
GB-174	GB-174-SV-5	5	2/28/2018	P	<0.0075	--	<0.0039	<0.0031	<0.0021	<0.0024	<0.014	<0.0025	--	<0.0031	--	--
	DUP-022818	5	2/28/2018	FD	<0.0074	--	<0.0038	<0.003	<0.002	<0.0023	<0.014	<0.0025	--	<0.003	--	--
SV08	SV08A	4	11/4/2009	P	**0.038**	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.008	--	<0.008	<0.008	<0.008
	SV08A	4	11/4/2009	P	<0.056	--	<0.088	<0.069	<0.046	<0.053	--	<0.056	<0.025	<0.069	--	--
	SV08A-091510	4	9/15/2010	P	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.008	--	<0.008	<0.008	<0.008
SV09	SV09	5	11/4/2009	P	**0.908**	<0.008	<0.008	<0.008	<0.008	<0.008	--	**0.222**	--	<0.008	<0.008	--
	SV09	5	9/15/2010	P	**0.088**	--	<0.091	<0.072	<0.048	<0.055	--	<0.058	<0.026	<0.072	--	--
	SV09-5' 1P	5	9/15/2010	1P	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.008	--	<0.008	--	<0.008
	SV09-5' 3P	5	9/15/2010	3P	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.008	--	<0.008	--	<0.008
	SV09-5' 10P	5	9/15/2010	10P	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.008	--	<0.008	--	<0.008
SV19	SV19	4.4	11/4/2009	P	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.008	--	<0.008	<0.008	--
SV22	SV22	3	11/3/2009	P	**0.392**	<0.008	<0.008	<0.008	<0.008	<0.008	--	**0.148**	--	<0.008	<0.008	<0.008
SV24	SV24	5.2	11/3/2009	P	**8.2**	--	<3.6	<2.8	<1.9	<2.2	--	**2.8**	<1	<2.8	--	--
	SV24-1P	5.2	11/3/2009	1P	**4.27**	<0.008	<0.008	<0.008	<0.008	<0.008	--	**4.86**	--	<0.008	--	<0.008
	SV24-3P	5.2	11/3/2009	3P	**5.73**	<0.008	<0.008	<0.008	<0.008	<0.008	--	**3.11**	--	<0.008	--	<0.008
	SV24-7P	5.2	11/3/2009	7P	**4.14**	<0.008	<0.008	<0.008	<0.008	<0.008	--	**2.28**	--	<0.008	--	<0.008
	SV24-5.2'	5.2	9/15/2010	P	**6.21**	<0.008	<0.008	<0.008	<0.008	<0.008	--	**1.83**	--	<0.008	--	<0.008
SV25	SV25	3.2	11/5/2009	P	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.008	--	<0.008	<0.008	<0.008
	SV25-3.2 1P	3.2	9/15/2010	1P	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.008	--	<0.008	--	<0.008
	SV25-3.2 3P	3.2	9/15/2010	3P	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.008	--	<0.008	--	<0.008
	SV25-3.2 10P	3.2	9/15/2010	10P	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.008	--	<0.008	--	<0.008
SV30	SV30	6	11/3/2009	P	**0.235**	<0.008	<0.008	<0.008	<0.008	<0.008	--	**0.062**	--	<0.008	<0.008	--
	SV30-6.0'	6	9/15/2010	P	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.008	--	<0.008	<0.008	<0.008

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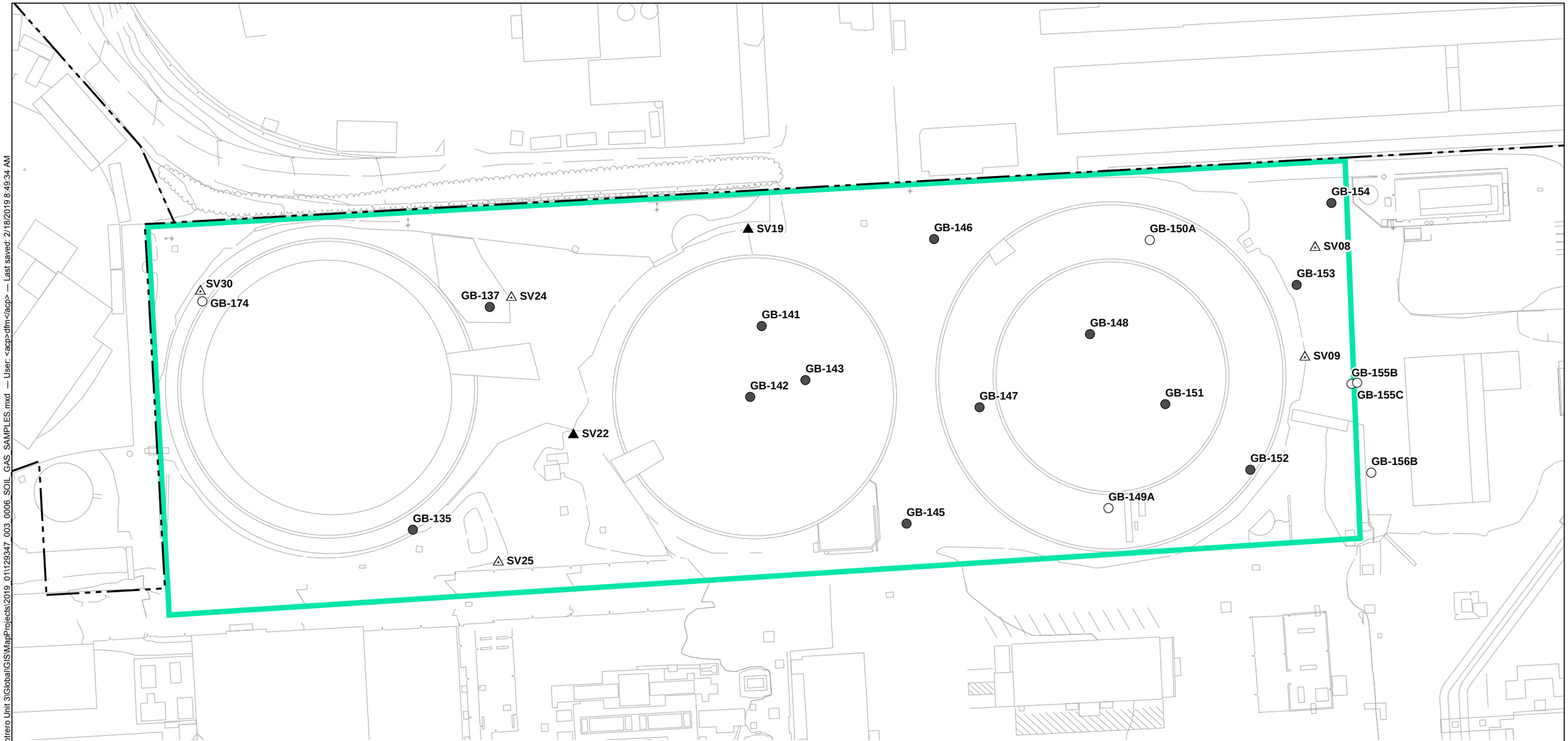
TANK FARM AREA, POTRERO POWER PLANT
SAN FRANCISCO, CALIFORNIA

Analytical results from sample locations GB-154, -155, and -156 from within the Tank Farm were evaluated for the Northeast-Area specific vapor intrusion risk assessment given the proximity of these locations to the Northeast Area boundary.

Location ID	Sample ID	Sample Depth (feet bgs)	Sample Date	Sample Type	1,4-Dichloro-benzene	1,4-Dioxane	2,2,4-Trimethyl-pentane	2,2-Dichloro-propane	2-Butanone (MEK)	2-Chlorotoluene	2-Hexanone (Methyl butyl ketone)	2-Propanol	3-Chloropropene	4-Chlorotoluene	4-Ethyltoluene	4-Methyl-2-pentanone (MIBK)
GB-135	GB-135-SV-4	4	12/18/2017	P	<0.003	--	--	--	<0.0044	--	<0.0061	--	--	--	<0.0025	<0.0061
GB-137	GB-137-SV-4	4	12/15/2017	P	<0.003	--	--	--	<0.0044	--	<0.0061	--	--	--	<0.0025	<0.0061
GB-141	GB-141-SV-8	8	12/15/2017	P	<0.003	--	--	--	**0.0051**	--	<0.0061	--	--	--	<0.0025	<0.0061
GB-142	GB-142-SV-6	6	12/14/2017	P	<0.0098	--	--	--	<0.014	--	<0.02	--	--	--	<0.008	<0.02
GB-143	GB-143-SV-6	6	12/14/2017	P	<0.052	--	--	--	<0.077	--	<0.11	--	--	--	**0.27**	<0.11
GB-145	GB-145-SV-5	5	12/14/2017	P	<0.003	--	--	--	<0.0045	--	<0.0062	--	--	--	<0.0025	<0.0062
GB-146	GB-146-SV-7	7	12/18/2017	P	<0.015	--	--	--	<0.022	--	<0.031	--	--	--	**0.56**	<0.031
GB-147	GB-147-SV-5	5	12/15/2017	P	<0.12	--	--	--	<0.18	--	<0.25	--	--	--	<0.098	<0.25
GB-148	GB-148-SV-6	6	12/18/2017	P	<0.12	--	--	--	<0.18	--	<0.25	--	--	--	**0.55**	<0.25
GB-149A	GB-149A-SV-5	5	2/28/2018	P	<0.003	--	--	--	<0.0044	--	<0.0061	--	--	--	<0.0025	<0.0061
GB-150A	GB-150A-SV-5	5	2/28/2018	P	<0.003	--	--	--	<0.0044	--	<0.0061	--	--	--	<0.0025	<0.0061
GB-151	GB-151-SV-5	5	12/18/2017	P	<0.12	--	--	--	<0.18	--	<0.25	--	--	--	<0.098	<0.25
	GB-151-SV-8	8	12/18/2017	P	<0.12	--	--	--	<0.18	--	<0.25	--	--	--	**1.7**	<0.25
GB-152	GB-152-SV-6	6	12/14/2017	P	<0.0081	--	--	--	<0.012	--	<0.016	--	--	--	<0.0066	<0.016
GB-153	GB-153-SV-8	8	12/15/2017	P	<0.019	--	--	--	<0.028	--	<0.038	--	--	--	<0.015	<0.038
GB-154	GB-154-SV-5	5	12/18/2017	P	<0.003	--	--	--	<0.0044	--	<0.0061	--	--	--	<0.0025	<0.0061
	DUP-121817	5	12/18/2017	FD	<0.003	--	--	--	<0.0044	--	<0.0061	--	--	--	<0.0025	<0.0061
GB-155B	GB-155B-SV-5	5	2/27/2018	P	<0.12	--	--	--	<0.18	--	<0.25	--	--	--	<0.098	<0.25
GB-155C	GB-155C-SV-3	3	2/28/2018	P	<0.012	--	--	--	<0.018	--	<0.025	--	--	--	<0.0098	<0.025
GB-156B	GB-156B-SV-5	5	2/28/2018	P	<0.003	--	--	--	<0.0044	--	<0.0061	--	--	--	<0.0025	<0.0061
GB-174	GB-174-SV-5	5	2/28/2018	P	<0.0031	--	--	--	<0.0045	--	<0.0063	--	--	--	<0.0025	<0.0063
	DUP-022818	5	2/28/2018	FD	<0.003	--	--	--	**0.0081**	--	<0.0061	--	--	--	<0.0025	<0.0061
SV08	SV08A	4	11/4/2009	P	<0.008	--	--	<0.008	--	<0.008	--	--	--	<0.008	--	--
	SV08A	4	11/4/2009	P	<0.069	<0.16	<0.053	--	<0.034	--	<0.19	<0.11	<0.14	--	<0.056	<0.047
	SV08A-091510	4	9/15/2010	P	<0.008	--	--	<0.008	--	<0.008	--	--	--	<0.008	--	--
SV09	SV09	5	11/4/2009	P	<0.008	--	--	<0.008	--	<0.008	--	--	--	<0.008	--	--
	SV09	5	9/15/2010	P	<0.072	<0.17	**0.37**	--	<0.035	--	<0.19	<0.12	<0.15	--	**0.19**	<0.049
	SV09-5' 1P	5	9/15/2010	1P	<0.008	--	--	<0.008	--	<0.008	--	--	--	<0.008	--	--
	SV09-5' 3P	5	9/15/2010	3P	<0.008	--	--	<0.008	--	<0.008	--	--	--	<0.008	--	--
	SV09-5' 10P	5	9/15/2010	10P	<0.008	--	--	<0.008	--	<0.008	--	--	--	<0.008	--	--
SV19	SV19	4.4	11/4/2009	P	<0.008	--	--	<0.008	--	<0.008	--	--	--	<0.008	--	--
SV22	SV22	3	11/3/2009	P	<0.008	--	--	<0.008	--	<0.008	--	--	--	<0.008	--	--
SV24	SV24	5.2	11/3/2009	P	<2.8	<6.7	<2.2	--	<1.4	--	<7.6	<4.6	<5.8	--	**5.3**	<1.9
	SV24-1P	5.2	11/3/2009	1P	<0.008	--	--	<0.008	--	<0.008	--	--	--	<0.008	--	--
	SV24-3P	5.2	11/3/2009	3P	<0.008	--	--	<0.008	--	<0.008	--	--	--	<0.008	--	--
	SV24-7P	5.2	11/3/2009	7P	<0.008	--	--	<0.008	--	<0.008	--	--	--	<0.008	--	--
	SV24-5.2'	5.2	9/15/2010	P	<0.008	--	--	<0.008	--	<0.008	--	--	--	<0.008	--	--
SV25	SV25	3.2	11/5/2009	P	<0.008	--	--	<0.008	--	<0.008	--	--	--	<0.008	--	--
	SV25-3.2 1P	3.2	9/15/2010	1P	<0.008	--	--	<0.008	--	<0.008	--	--	--	<0.008	--	--
	SV25-3.2 3P	3.2	9/15/2010	3P	<0.008	--	--	<0.008	--	<0.008	--	--	--	<0.008	--	--
	SV25-3.2 10P	3.2	9/15/2010	10P	<0.008	--	--	<0.008	--	<0.008	--	--	--	<0.008	--	--
SV30	SV30	6	11/3/2009	P	<0.008	--	--	<0.008	--	<0.008	--	--	--	<0.008	--	--
	SV30-6.0'	6	9/15/2010	P	<0.008	--	--	<0.008	--	<0.008	--	--	--	<0.008	--	--



LEGEND

SOIL VAPOR

- SAMPLED IN 2017
- SAMPLED IN 2018
- SAMPLED IN 2009
- SAMPLED IN 2009/2010

PROPERTY BOUNDARY LINE

TANK FARM AREA

NOTES:

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. BASE MAP SOURCE: RJL & ASSOCIATE, 2015
3. APPROXIMATE LIMITS OF HISTORICAL STRUCTURES DERIVED FROM SANBORN FIRE INSURANCE MAPS (1887, 1900, AND 1914) AND PACIFIC GAS AND ELECTRIC MAPS (1926).
4. APPROXIMATE LOCATION OF HISTORICAL SHORELINE DERIVED FROM US COAST SURVEY (1855).
5. GB-100 SERIES LOCATIONS ARE BASED ON SURVEY BY KISTER, SAVIO AND REI, INC. DATE 1/23/2018.

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SCALE IN FEET

HALEY ALDRICH

PACIFIC GAS AND ELECTRIC COMPANY (PG&E)
TANK FARM AREA
POTRERO POWER PLANT
SAN FRANCISCO, CALIFORNIA

SOIL VAPOR SAMPLE LOCATIONS

FEBRUARY 2019

FIGURE 6

GIS file path: \\haleyaldrich.com\share\sdg_common\42542 PG&E Potrero Unit 3\Global\GIS\MapProjects\2019_01\129347_003_0006_SOIL_GAS_SAMPLES.mxd — User: <acp>-dfm</acp> — Last saved: 2/18/2019 8:49:34 AM

TABLE A-9
ANALYTICAL DATA: VOLATILE ORGANIC COMPOUNDS IN SOIL VAPOR
TANK FARM AREA, POTRERO POWER PLANT
SAN FRANCISCO, CALIFORNIA

Location ID	Sample ID	Sample Depth (feet bgs)	Sample Date	Sample Type	Acetone	Benzene	Benzylchloride	Bromobenzene	Bromodichloro-methane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chlorodibromo-methane
GB-135	GB-135-SV-4	4	12/18/2017	P	**0.018**	**0.0017**	<0.0078	--	<0.0034	<0.0052	<0.0019	**0.0066**	<0.0031	<0.0023	<0.0043
GB-137	GB-137-SV-4	4	12/15/2017	P	**0.02**	**0.019**	<0.0078	--	<0.0034	<0.0052	<0.0019	**0.16**	<0.0031	<0.0023	<0.0043
GB-141	GB-141-SV-8	8	12/15/2017	P	**0.033**	**0.073**	<0.0078	--	<0.0034	<0.0052	<0.0019	**0.16**	<0.0031	<0.0023	<0.0043
GB-142	GB-142-SV-6	6	12/14/2017	P	<0.015	**0.065**	<0.025	--	<0.011	<0.017	<0.0063	<0.02	<0.01	<0.0075	<0.014
GB-143	GB-143-SV-6	6	12/14/2017	P	<0.083	**2.7**	<0.14	--	<0.058	<0.09	<0.034	**0.12**	<0.055	<0.04	<0.074
GB-145	GB-145-SV-5	5	12/14/2017	P	**0.0082**	<0.0016	<0.0078	--	<0.0034	<0.0052	<0.002	<0.0063	<0.0032	<0.0023	<0.0043
GB-146	GB-146-SV-7	7	12/18/2017	P	**0.074**	**11**	<0.039	--	<0.017	<0.026	<0.0097	**0.098**	<0.016	<0.012	<0.021
GB-147	GB-147-SV-5	5	12/15/2017	P	<0.19	**1.8**	<0.31	--	<0.13	<0.21	<0.078	<0.25	<0.13	<0.092	<0.17
GB-148	GB-148-SV-6	6	12/18/2017	P	**0.61**	**280**	<0.31	--	<0.13	<0.21	<0.078	<0.25	<0.13	<0.092	<0.17
GB-149A	GB-149A-SV-5	5	2/28/2018	P	**0.0074**	**0.007**	<0.0078	--	<0.0034	<0.0052	<0.0019	<0.0062	<0.0031	<0.0023	<0.0043
GB-150A	GB-150A-SV-5	5	2/28/2018	P	**0.063**	**0.0096**	<0.0078	--	<0.0034	<0.0052	<0.0019	**0.017**	<0.0031	<0.0023	<0.0043
GB-151	GB-151-SV-5	5	12/18/2017	P	<0.19	**77 J**	<0.31	--	<0.13	<0.21	<0.078	<0.25	<0.13	<0.092	<0.17
	GB-151-SV-8	8	12/18/2017	P	<0.19	**260**	<0.31	--	<0.13	<0.21	<0.078	<0.25	<0.13	<0.092	<0.17
GB-152	GB-152-SV-6	6	12/14/2017	P	<0.013	<0.0043	<0.021	--	<0.009	<0.014	<0.0052	<0.017	<0.0084	<0.0062	<0.011
GB-153	GB-153-SV-8	8	12/15/2017	P	<0.03	**0.034**	<0.049	--	<0.021	<0.032	<0.012	**0.14**	<0.02	<0.014	<0.027
GB-154	GB-154-SV-5	5	12/18/2017	P	<0.0048	<0.0016	<0.0078	--	<0.0034	<0.0052	<0.0019	<0.0062	<0.0031	<0.0023	<0.0043
	DUP-121817	5	12/18/2017	FD	**0.011**	<0.0016	<0.0078	--	<0.0034	<0.0052	<0.0019	<0.0062	<0.0031	<0.0023	<0.0043
GB-155B	GB-155B-SV-5	5	2/27/2018	P	<0.19	**5.2**	<0.31	--	<0.13	<0.21	<0.078	<0.25	<0.13	<0.092	<0.17
GB-155C	GB-155C-SV-3	3	2/28/2018	P	**0.08**	**0.038**	<0.031	--	<0.013	<0.021	<0.0078	<0.025	<0.013	<0.0092	<0.017
GB-156B	GB-156B-SV-5	5	2/28/2018	P	**0.012**	<0.0016	<0.0078	--	<0.0034	<0.0052	<0.0019	<0.0062	<0.0031	<0.0023	<0.0043
GB-174	GB-174-SV-5	5	2/28/2018	P	**0.043**	<0.0016	<0.0079	--	<0.0034	<0.0053	<0.002	<0.0064	<0.0032	<0.0023	<0.0043
	DUP-022818	5	2/28/2018	FD	**0.03**	<0.0016	<0.0078	--	<0.0034	<0.0052	<0.0019	<0.0062	<0.0031	<0.0023	<0.0043
SV08	SV08A	4	11/4/2009	P	--	<0.008	--	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008
	SV08A	4	11/4/2009	P	<0.11	<0.036	<0.059	--	<0.077	<0.12	<0.044	<0.036	<0.072	<0.053	<0.098
	SV08A-091510	4	9/15/2010	P	--	<0.008	--	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008
SV09	SV09	5	11/4/2009	P	--	**238**	--	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008
	SV09	5	9/15/2010	P	<0.11	**0.91**	<0.062	--	<0.08	<0.12	<0.046	<0.037	<0.075	<0.055	<0.1
	SV09-5' 1P	5	9/15/2010	1P	--	**1.16**	--	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008
	SV09-5' 3P	5	9/15/2010	3P	--	**1.93**	--	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008
	SV09-5' 10P	5	9/15/2010	10P	--	**1.41**	--	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008
SV19	SV19	4.4	11/4/2009	P	--	**0.052**	--	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008
SV22	SV22	3	11/3/2009	P	--	**22.1**	--	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008
SV24	SV24	5.2	11/3/2009	P	<4.4	**930**	<2.4	--	<3.1	<4.8	<1.8	<1.4	<2.9	<2.1	<4
	SV24-1P	5.2	11/3/2009	1P	--	**532**	--	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008
	SV24-3P	5.2	11/3/2009	3P	--	**717**	--	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008
	SV24-7P	5.2	11/3/2009	7P	--	**581**	--	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008
	SV24-5.2'	5.2	9/15/2010	P	--	**303**	--	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008
SV25	SV25	3.2	11/5/2009	P	--	<0.008	--	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008
	SV25-3.2 1P	3.2	9/15/2010	1P	--	<0.008	--	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008
	SV25-3.2 3P	3.2	9/15/2010	3P	--	<0.008	--	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008
	SV25-3.2 10P	3.2	9/15/2010	10P	--	<0.008	--	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008
SV30	SV30	6	11/3/2009	P	--	**2.88**	--	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008
	SV30-6.0'	6	9/15/2010	P	--	**0.076**	--	<0.008	<0.008	<0.008	--	--	<0.008	<0.008	<0.008

TABLE A-9
ANALYTICAL DATA: VOLATILE ORGANIC COMPOUNDS IN SOIL VAPOR
TANK FARM AREA, POTRERO POWER PLANT
SAN FRANCISCO, CALIFORNIA

Location ID	Sample ID	Sample Depth (feet bgs)	Sample Date	Sample Type	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloro-propene	Cumene	Cyclohexane	Cymene	Dibromo-methane	Dichloro-difluoromethane (Freon 12)	Dichloro-tetrafluoroethane
GB-135	GB-135-SV-4	4	12/18/2017	P	<0.0013	**0.0045**	<0.001	<0.002	<0.0023	--	--	--	--	**0.0054**	--
GB-137	GB-137-SV-4	4	12/15/2017	P	<0.0013	**0.0028**	<0.001	<0.002	<0.0023	--	--	--	--	**0.1**	--
GB-141	GB-141-SV-8	8	12/15/2017	P	<0.0013	**0.029**	**0.0015**	<0.002	<0.0023	--	--	--	--	<0.0025	--
GB-142	GB-142-SV-6	6	12/14/2017	P	<0.0043	<0.0079	<0.0034	<0.0064	<0.0074	--	--	--	--	<0.008	--
GB-143	GB-143-SV-6	6	12/14/2017	P	<0.023	**0.044**	<0.018	<0.034	<0.039	--	--	--	--	<0.043	--
GB-145	GB-145-SV-5	5	12/14/2017	P	<0.0013	**0.0086**	<0.001	<0.002	<0.0023	--	--	--	--	<0.0025	--
GB-146	GB-146-SV-7	7	12/18/2017	P	<0.0066	<0.012	<0.0052	<0.0099	<0.011	--	--	--	--	<0.012	--
GB-147	GB-147-SV-5	5	12/15/2017	P	<0.053	<0.098	<0.041	<0.079	<0.091	--	--	--	--	<0.099	--
GB-148	GB-148-SV-6	6	12/18/2017	P	<0.053	<0.098	<0.041	<0.079	<0.091	--	--	--	--	<0.099	--
GB-149A	GB-149A-SV-5	5	2/28/2018	P	<0.0013	<0.0024	<0.001	<0.002	<0.0023	--	--	--	--	<0.0025	--
GB-150A	GB-150A-SV-5	5	2/28/2018	P	<0.0013	<0.0024	<0.001	**0.0036**	<0.0023	--	--	--	--	<0.0025	--
GB-151	GB-151-SV-5	5	12/18/2017	P	<0.053	<0.098	<0.041	<0.079	<0.091	--	--	--	--	<0.099	--
	GB-151-SV-8	8	12/18/2017	P	<0.053	<0.098	<0.041	<0.079	<0.091	--	--	--	--	<0.099	--
GB-152	GB-152-SV-6	6	12/14/2017	P	<0.0035	<0.0065	<0.0028	<0.0053	<0.0061	--	--	--	--	<0.0066	--
GB-153	GB-153-SV-8	8	12/15/2017	P	<0.0082	<0.015	<0.0065	<0.012	<0.014	--	--	--	--	<0.015	--
GB-154	GB-154-SV-5	5	12/18/2017	P	<0.0013	**0.0028**	<0.001	<0.002	<0.0023	--	--	--	--	<0.0025	--
	DUP-121817	5	12/18/2017	FD	<0.0013	**0.0026**	<0.001	<0.002	<0.0023	--	--	--	--	<0.0025	--
GB-155B	GB-155B-SV-5	5	2/27/2018	P	<0.053	<0.098	<0.041	<0.079	<0.091	--	--	--	--	<0.099	--
GB-155C	GB-155C-SV-3	3	2/28/2018	P	<0.0053	**0.03**	<0.0041	<0.0079	<0.0091	--	--	--	--	<0.0099	--
GB-156B	GB-156B-SV-5	5	2/28/2018	P	<0.0013	**0.0084**	<0.001	<0.002	<0.0023	--	--	--	--	**0.0037**	--
GB-174	GB-174-SV-5	5	2/28/2018	P	<0.0013	**0.0069 J**	<0.0011	<0.002	<0.0023	--	--	--	--	<0.0025	--
	DUP-022818	5	2/28/2018	FD	<0.0013	<0.0024 UJ	<0.001	<0.002	<0.0023	--	--	--	--	<0.0025	--
SV08	SV08A	4	11/4/2009	P	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.008	<0.008	<0.008	--
	SV08A	4	11/4/2009	P	<0.03	<0.056	<0.094	<0.045	<0.052	<0.056	**0.16**	--	--	<0.057	<0.08
	SV08A-091510	4	9/15/2010	P	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.008	<0.008	<0.008	--
SV09	SV09	5	11/4/2009	P	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.008	<0.008	<0.008	--
	SV09	5	9/15/2010	P	<0.031	<0.058	<0.098	<0.047	<0.054	**0.095**	<0.041	--	--	<0.059	<0.083
	SV09-5' 1P	5	9/15/2010	1P	<0.008	<0.008	<0.008	<0.008	<0.008	**0.044**	--	<0.008	<0.008	<0.008	--
	SV09-5' 3P	5	9/15/2010	3P	<0.008	<0.008	<0.008	<0.008	<0.008	**0.05**	--	<0.008	<0.008	<0.008	--
	SV09-5' 10P	5	9/15/2010	10P	<0.008	<0.008	<0.008	<0.008	<0.008	**0.056**	--	<0.008	<0.008	<0.008	--
SV19	SV19	4.4	11/4/2009	P	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.008	<0.008	<0.008	--
SV22	SV22	3	11/3/2009	P	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.008	<0.008	<0.008	--
SV24	SV24	5.2	11/3/2009	P	<1.2	<2.3	<3.8	<1.8	<2.1	<2.3	<1.6	--	--	<2.3	<3.2
	SV24-1P	5.2	11/3/2009	1P	<0.008	<0.008	<0.008	<0.008	<0.008	**1.49**	--	<0.008	<0.008	<0.008	--
	SV24-3P	5.2	11/3/2009	3P	<0.008	<0.008	<0.008	<0.008	<0.008	**1.16**	--	**0.355**	<0.008	<0.008	--
	SV24-7P	5.2	11/3/2009	7P	<0.008	<0.008	<0.008	<0.008	<0.008	**0.636**	--	<0.008	<0.008	<0.008	--
	SV24-5.2'	5.2	9/15/2010	P	<0.008	<0.008	<0.008	<0.008	<0.008	**2.52**	--	**0.238**	<0.008	<0.008	--
SV25	SV25	3.2	11/5/2009	P	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.008	<0.008	<0.008	--
	SV25-3.2 1P	3.2	9/15/2010	1P	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.008	<0.008	<0.008	--
	SV25-3.2 3P	3.2	9/15/2010	3P	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.008	<0.008	<0.008	--
	SV25-3.2 10P	3.2	9/15/2010	10P	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.008	<0.008	<0.008	--
SV30	SV30	6	11/3/2009	P	<0.008	<0.008	<0.008	<0.008	<0.008	**1.19**	--	<0.008	<0.008	<0.008	--
	SV30-6.0'	6	9/15/2010	P	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	<0.008	<0.008	<0.008	--

TABLE A-9
ANALYTICAL DATA: VOLATILE ORGANIC COMPOUNDS IN SOIL VAPOR
TANK FARM AREA, POTRERO POWER PLANT
SAN FRANCISCO, CALIFORNIA

Location ID	Sample ID	Sample Depth (feet bgs)	Sample Date	Sample Type	Ethanol	Ethyl tert-butyl ether (ETBE)	Ethylbenzene	Heptane	Hexachloro-butadiene	Hexane	Isopropyl ether	m,p-Xylenes	Methyl tert-butyl ether (MTBE)	Methylene chloride	Naphthalene	n-Butylbenzene
GB-135	GB-135-SV-4	4	12/18/2017	P	**0.011**	<0.0084	<0.0022	--	<0.016	--	<0.0084	<0.0087	<0.0072	<0.017	<0.026 [a]	--
GB-137	GB-137-SV-4	4	12/15/2017	P	<0.0094	<0.0084	**0.011**	--	<0.016	--	<0.0084	**0.011**	<0.0072	<0.017	<0.026	--
GB-141	GB-141-SV-8	8	12/15/2017	P	<0.0094	<0.0084	**0.015**	--	<0.016	--	<0.0084	<0.0087	**0.016**	<0.017	<0.026	--
GB-142	GB-142-SV-6	6	12/14/2017	P	<0.031	<0.027	**0.047**	--	<0.052	--	<0.027	**0.034**	<0.023	<0.056	<0.085	--
GB-143	GB-143-SV-6	6	12/14/2017	P	<0.16	<0.15	**1.4**	--	<0.28	--	<0.15	<0.15	<0.13	<0.3	<0.46	--
GB-145	GB-145-SV-5	5	12/14/2017	P	<0.0095	<0.0084	<0.0022	--	<0.016	--	<0.0084	<0.0088	<0.0073	<0.018	<0.026	--
GB-146	GB-146-SV-7	7	12/18/2017	P	<0.047	<0.042	**16**	--	<0.08	--	<0.042	**10**	<0.036	<0.087	**13**	--
GB-147	GB-147-SV-5	5	12/15/2017	P	<0.38	<0.33	**0.44**	--	<0.64	--	<0.33	**0.58**	<0.29	<0.69	<1	--
GB-148	GB-148-SV-6	6	12/18/2017	P	<0.38	<0.33	**21 J**	--	<0.64	--	<0.33	**12**	<0.29	<0.69	**4.1 J**	--
GB-149A	GB-149A-SV-5	5	2/28/2018	P	<0.0094	<0.0084	<0.0022	--	<0.016	--	<0.0084	<0.0087	<0.0072	<0.017	<0.026	--
GB-150A	GB-150A-SV-5	5	2/28/2018	P	<0.0094	<0.0084	**0.0046**	--	<0.016	--	<0.0084	<0.0087	<0.0072	<0.017	**0.085**	--
GB-151	GB-151-SV-5	5	12/18/2017	P	<0.38	<0.33	**1.1**	--	<0.64	--	<0.33	<0.35	<0.29	<0.69	**5.6**	--
	GB-151-SV-8	8	12/18/2017	P	<0.38	<0.33	**70**	--	<0.64	--	<0.33	**12**	<0.29	<0.69	**3.7**	--
GB-152	GB-152-SV-6	6	12/14/2017	P	<0.025	<0.022	<0.0058	--	<0.043	--	<0.022	<0.023	<0.019	<0.047	<0.07	--
GB-153	GB-153-SV-8	8	12/15/2017	P	<0.059	<0.052	**0.016**	--	<0.1	--	<0.052	<0.054	<0.045	<0.11	<0.16	--
GB-154	GB-154-SV-5	5	12/18/2017	P	<0.0094	<0.0084	<0.0022	--	<0.016	--	<0.0084	<0.0087	<0.0072	<0.017	<0.026	--
	DUP-121817	5	12/18/2017	FD	<0.0094	<0.0084	<0.0022	--	<0.016	--	<0.0084	<0.0087	<0.0072	<0.017	<0.026	--
GB-155B	GB-155B-SV-5	5	2/27/2018	P	<0.38	<0.33	**0.41**	--	<0.64	--	<0.33	**0.64**	<0.29	<0.69	**1.6**	--
GB-155C	GB-155C-SV-3	3	2/28/2018	P	<0.038	<0.033	**0.01 J**	--	<0.064	--	<0.033	<0.035	<0.029	<0.069	<0.1	--
GB-156B	GB-156B-SV-5	5	2/28/2018	P	<0.0094	<0.0084	<0.0022	--	<0.016	--	<0.0084	<0.0087	<0.0072	<0.017	<0.026	--
GB-174	GB-174-SV-5	5	2/28/2018	P	**0.12 J**	<0.0085	<0.0022	--	<0.016	--	<0.0085	<0.0089	<0.0074	<0.018	<0.027	--
	DUP-022818	5	2/28/2018	FD	<0.0094 UJ	<0.0084	<0.0022	--	<0.016	--	<0.0084	<0.0087	<0.0072	<0.017	<0.026	--
SV08	SV08A	4	11/4/2009	P	--	<0.008	<0.008	--	<0.008	**1.18**	<0.008	--	<0.008	<0.008	<0.008	<0.008
	SV08A	4	11/4/2009	P	<0.086	--	<0.05	<0.047	<0.49	**0.058**	--	**0.051**	<0.041	<0.04	<0.24	--
	SV08A-091510	4	9/15/2010	P	--	<0.008	<0.008	--	<0.008	<0.008	<0.008	--	<0.008	<0.008	**0.129**	<0.008
SV09	SV09	5	11/4/2009	P	--	<0.008	<0.008	--	<0.008	<0.008	<0.008	--	<0.008	<0.008	**5.63**	<0.008
	SV09	5	9/15/2010	P	<0.09	--	**0.29**	<0.049	<0.51	**0.1**	--	**0.2**	<0.043	<0.041	**3.7**	--
	SV09-5' 1P	5	9/15/2010	1P	--	<0.008	**0.221**	--	<0.008	--	<0.008	--	<0.008	<0.008	**1.65**	<0.008
	SV09-5' 3P	5	9/15/2010	3P	--	<0.008	**0.342**	--	<0.008	--	<0.008	--	<0.008	<0.008	**1.77**	<0.008
	SV09-5' 10P	5	9/15/2010	10P	--	<0.008	**0.278**	--	<0.008	--	<0.008	--	<0.008	<0.008	**1.95**	<0.008
SV19	SV19	4.4	11/4/2009	P	--	<0.008	<0.008	--	<0.008	**0.353**	<0.008	--	<0.008	<0.008	**0.156**	<0.008
SV22	SV22	3	11/3/2009	P	--	<0.008	<0.008	--	<0.008	**1.78**	<0.008	--	<0.008	<0.008	<0.008	<0.008
SV24	SV24	5.2	11/3/2009	P	<3.5	--	**200**	**7**	<20	**7.9**	--	**130**	<1.7	<1.6	**260**	--
	SV24-1P	5.2	11/3/2009	1P	--	<0.008	**66.6**	--	<0.008	**0.282**	<0.008	--	<0.008	<0.008	<0.008	<0.008
	SV24-3P	5.2	11/3/2009	3P	--	<0.008	**117**	--	<0.008	**0.322**	<0.008	--	<0.008	<0.008	<0.008	<0.008
	SV24-7P	5.2	11/3/2009	7P	--	<0.008	**89**	--	<0.008	**0.309**	<0.008	--	<0.008	<0.008	<0.008	<0.008
	SV24-5.2'	5.2	9/15/2010	P	--	<0.008	**103**	--	<0.008	--	<0.008	--	<0.008	<0.008	**253**	**0.39**
SV25	SV25	3.2	11/5/2009	P	--	<0.008	<0.008	--	<0.008	<0.008	<0.008	--	<0.008	<0.008	<0.008	<0.008
	SV25-3.2 1P	3.2	9/15/2010	1P	--	<0.008	<0.008	--	<0.008	--	<0.008	--	<0.008	<0.008	**0.066**	<0.008
	SV25-3.2 3P	3.2	9/15/2010	3P	--	<0.008	<0.008	--	<0.008	--	<0.008	--	<0.008	<0.008	**0.088**	<0.008
	SV25-3.2 10P	3.2	9/15/2010	10P	--	<0.008	<0.008	--	<0.008	--	<0.008	--	<0.008	<0.008	**0.063**	<0.008
SV30	SV30	6	11/3/2009	P	--	<0.008	<0.008	--	<0.008	**0.108**	<0.008	--	<0.008	<0.008	<0.008	<0.008
	SV30-6.0'	6	9/15/2010	P	--	<0.008	<0.008	--	<0.008	<0.008	<0.008	--	<0.008	<0.008	**1.37**	<0.008

TABLE A-9
ANALYTICAL DATA: VOLATILE ORGANIC COMPOUNDS IN SOIL VAPOR
TANK FARM AREA, POTRERO POWER PLANT
SAN FRANCISCO, CALIFORNIA

Location ID	Sample ID	Sample Depth (feet bgs)	Sample Date	Sample Type	n-Propylbenzene	o-Xylene	sec-Butylbenzene	Styrene	Tert-Amyl Methyl Ether (TAME)	tert-Butyl alcohol	tert-Butylbenzene	Tetra-chloroethene	Tetra-hydrofuran	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloro-propene
GB-135	GB-135-SV-4	4	12/18/2017	P	--	<0.0022	--	<0.0064	<0.0084	<0.0061	--	**0.35**	--	<0.0019	<0.002	<0.0045
GB-137	GB-137-SV-4	4	12/15/2017	P	--	**0.0031**	--	<0.0064	<0.0084	<0.0061	--	<0.0034	--	**0.0053**	<0.002	<0.0045
GB-141	GB-141-SV-8	8	12/15/2017	P	--	**0.0078**	--	<0.0064	<0.0084	<0.0061	--	<0.0034	--	**0.0098**	<0.002	<0.0045
GB-142	GB-142-SV-6	6	12/14/2017	P	--	**0.011**	--	<0.021	<0.027	<0.02	--	<0.011	--	**0.031**	<0.0064	<0.015
GB-143	GB-143-SV-6	6	12/14/2017	P	--	**0.2**	--	<0.11	<0.15	<0.11	--	<0.059	--	**0.17**	<0.034	<0.079
GB-145	GB-145-SV-5	5	12/14/2017	P	--	<0.0022	--	<0.0065	<0.0084	<0.0061	--	**0.0077**	--	**0.0037**	<0.002	<0.0046
GB-146	GB-146-SV-7	7	12/18/2017	P	--	**7.5**	--	**0.13**	<0.042	<0.03	--	<0.017	--	**3.7**	<0.0099	<0.023
GB-147	GB-147-SV-5	5	12/15/2017	P	--	**0.26**	--	<0.26	<0.33	<0.24	--	<0.14	--	**0.59**	<0.079	<0.18
GB-148	GB-148-SV-6	6	12/18/2017	P	--	**6.7**	--	**0.70**	<0.33	<0.24	--	<0.14	--	**17 J**	<0.079	<0.18
GB-149A	GB-149A-SV-5	5	2/28/2018	P	--	<0.0022	--	<0.0064	<0.0084	<0.0061	--	<0.0034	--	<0.0019	<0.002	<0.0045
GB-150A	GB-150A-SV-5	5	2/28/2018	P	--	**0.0026**	--	<0.0064	<0.0084	<0.0061	--	**0.0064**	--	**0.0066**	<0.002	<0.0045
GB-151	GB-151-SV-5	5	12/18/2017	P	--	**0.15**	--	<0.26	<0.33	<0.24	--	<0.14	--	**0.64**	<0.079	<0.18
	GB-151-SV-8	8	12/18/2017	P	--	**7.4**	--	**0.34**	<0.33	<0.24	--	<0.14	--	**7.9**	<0.079	<0.18
GB-152	GB-152-SV-6	6	12/14/2017	P	--	<0.0058	--	<0.017	<0.022	<0.016	--	<0.0091	--	<0.005	<0.0053	<0.012
GB-153	GB-153-SV-8	8	12/15/2017	P	--	<0.014	--	<0.04	<0.052	<0.038	--	<0.021	--	**0.021**	<0.012	<0.028
GB-154	GB-154-SV-5	5	12/18/2017	P	--	<0.0022	--	<0.0064	<0.0084	<0.0061	--	**0.24**	--	<0.0019	<0.002	<0.0045
	DUP-121817	5	12/18/2017	FD	--	<0.0022	--	<0.0064	<0.0084	<0.0061	--	**0.24**	--	<0.0019	<0.002	<0.0045
GB-155B	GB-155B-SV-5	5	2/27/2018	P	--	**0.35**	--	<0.26	<0.33	<0.24	--	<0.14	--	**1.0**	<0.079	<0.18
GB-155C	GB-155C-SV-3	3	2/28/2018	P	--	<0.0087	--	<0.026	<0.033	<0.024	--	<0.014	--	**0.0088**	<0.0079	<0.018
GB-156B	GB-156B-SV-5	5	2/28/2018	P	--	<0.0022	--	<0.0064	<0.0084	<0.0061	--	<0.0034	--	<0.0019	<0.002	<0.0045
GB-174	GB-174-SV-5	5	2/28/2018	P	--	<0.0022	--	<0.0065	<0.0085	<0.0062	--	<0.0035	--	<0.0019	<0.002	<0.0046
	DUP-022818	5	2/28/2018	FD	--	<0.0022	--	<0.0064	<0.0084	<0.0061	--	<0.0034	--	<0.0019	<0.002	<0.0045
SV08	SV08A	4	11/4/2009	P	<0.008	--	**0.039**	<0.008	<0.008	<0.035	<0.008	<0.008	--	**0.209**	<0.008	<0.008
	SV08A	4	11/4/2009	P	<0.056	<0.05	--	<0.049	--	--	--	<0.078	<0.034	<0.043	<0.045	<0.052
	SV08A-091510	4	9/15/2010	P	<0.008	--	<0.008	<0.008	--	--	<0.008	<0.008	--	<0.008	<0.008	<0.008
SV09	SV09	5	11/4/2009	P	<0.008	--	**0.46**	<0.008	<0.008	<0.035	<0.008	<0.008	--	**13.1**	<0.008	<0.008
	SV09	5	9/15/2010	P	<0.058	**0.086**	--	**0.054**	--	--	--	<0.081	<0.035	**0.15**	<0.047	<0.054
	SV09-5' 1P	5	9/15/2010	1P	<0.008	--	<0.008	<0.008	--	--	<0.008	<0.008	--	**0.17**	<0.008	<0.008
	SV09-5' 3P	5	9/15/2010	3P	<0.008	--	<0.008	<0.008	--	--	<0.008	<0.008	--	**0.228**	<0.008	<0.008
	SV09-5' 10P	5	9/15/2010	10P	<0.008	--	<0.008	<0.008	--	--	<0.008	<0.008	--	**0.206**	<0.008	<0.008
SV19	SV19	4.4	11/4/2009	P	<0.008	--	<0.008	<0.008	<0.008	<0.035	<0.008	<0.008	--	**0.336**	<0.008	<0.008
SV22	SV22	3	11/3/2009	P	<0.008	--	**0.19**	<0.008	<0.008	<0.035	<0.008	<0.008	--	**1.19**	<0.008	<0.008
SV24	SV24	5.2	11/3/2009	P	<2.3	**42**	--	**100**	--	--	--	**5.7**	<1.4	**600**	<1.8	<2.1
	SV24-1P	5.2	11/3/2009	1P	**36.2**	--	**0.159**	**1.02**	<0.008	<0.035	<0.008	<0.008	--	**156**	<0.008	<0.008
	SV24-3P	5.2	11/3/2009	3P	**52.3**	--	**0.23**	**0.464**	<0.008	<0.035	<0.008	<0.008	--	**459**	<0.008	<0.008
	SV24-7P	5.2	11/3/2009	7P	**45.9**	--	**0.194**	**0.2**	<0.008	<0.035	<0.008	<0.008	--	**375**	<0.008	<0.008
	SV24-5.2'	5.2	9/15/2010	P	<0.008	--	<0.008	<0.008	--	--	<0.008	<0.008	--	**31.4**	<0.008	<0.008
SV25	SV25	3.2	11/5/2009	P	<0.008	--	<0.008	<0.008	<0.008	<0.035	<0.008	<0.008	--	<0.008	<0.008	<0.008
	SV25-3.2 1P	3.2	9/15/2010	1P	<0.008	--	<0.008	<0.008	--	--	<0.008	<0.008	--	<0.008	<0.008	<0.008
	SV25-3.2 3P	3.2	9/15/2010	3P	<0.008	--	<0.008	<0.008	--	--	<0.008	**0.024**	--	<0.008	<0.008	<0.008
	SV25-3.2 10P	3.2	9/15/2010	10P	<0.008	--	<0.008	<0.008	--	--	<0.008	**0.012**	--	<0.008	<0.008	<0.008
SV30	SV30	6	11/3/2009	P	<0.008	--	**0.118**	**0.463**	<0.008	<0.035	<0.008	<0.008	--	**3**	<0.008	<0.008
	SV30-6.0'	6	9/15/2010	P	<0.008	--	<0.008	<0.008	--	--	<0.008	<0.008	--	<0.008	<0.008	<0.008

TABLE A-9
ANALYTICAL DATA: VOLATILE ORGANIC COMPOUNDS IN SOIL VAPOR
TANK FARM AREA, POTRERO POWER PLANT
SAN FRANCISCO, CALIFORNIA

Location ID	Sample ID	Sample Depth (feet bgs)	Sample Date	Sample Type	Trichloro-ethene (TCE)	Trichlorofluoro-methane (Freon 11)	Vinyl Acetate	Vinyl Chloride	Xylenes
GB-135	GB-135-SV-4	4	12/18/2017	P	<0.0027	**0.019**	<0.007	<0.0013	<0.0087
GB-137	GB-137-SV-4	4	12/15/2017	P	<0.0027	**0.24**	<0.007	<0.0013	**0.014**
GB-141	GB-141-SV-8	8	12/15/2017	P	**0.056**	<0.0056	<0.007	<0.0013	**0.0078**
GB-142	GB-142-SV-6	6	12/14/2017	P	<0.0087	<0.018	<0.023	<0.0042	**0.045**
GB-143	GB-143-SV-6	6	12/14/2017	P	<0.047	<0.098	<0.12	<0.022	**0.20**
GB-145	GB-145-SV-5	5	12/14/2017	P	<0.0027	<0.0057	<0.0071	<0.0013	<0.0088
GB-146	GB-146-SV-7	7	12/18/2017	P	<0.013	<0.028	<0.035	<0.0064	**18**
GB-147	GB-147-SV-5	5	12/15/2017	P	<0.11	<0.22	<0.28	<0.051	**0.84**
GB-148	GB-148-SV-6	6	12/18/2017	P	<0.11	<0.22	<0.28	<0.051	**19**
GB-149A	GB-149A-SV-5	5	2/28/2018	P	<0.0027	**0.041**	<0.007	<0.0013	<0.0087
GB-150A	GB-150A-SV-5	5	2/28/2018	P	<0.0027	<0.0056	<0.007	**0.011**	**0.0026**
GB-151	GB-151-SV-5	5	12/18/2017	P	<0.11	<0.22	<0.28	<0.051	**0.15**
	GB-151-SV-8	8	12/18/2017	P	<0.11	<0.22	<0.28	<0.051	**19**
GB-152	GB-152-SV-6	6	12/14/2017	P	<0.0072	<0.015	<0.019	<0.0034	<0.023
GB-153	GB-153-SV-8	8	12/15/2017	P	<0.017	<0.035	<0.044	<0.008	<0.054
GB-154	GB-154-SV-5	5	12/18/2017	P	<0.0027	<0.0056	<0.007	<0.0013	<0.0087
	DUP-121817	5	12/18/2017	FD	<0.0027	<0.0056	<0.007	<0.0013	<0.0087
GB-155B	GB-155B-SV-5	5	2/27/2018	P	<0.11	<0.22	<0.28	<0.051	**0.99**
GB-155C	GB-155C-SV-3	3	2/28/2018	P	<0.011	<0.022	<0.028	<0.0051	<0.035
GB-156B	GB-156B-SV-5	5	2/28/2018	P	**0.0046**	<0.0056	<0.007	<0.0013	<0.0087
GB-174	GB-174-SV-5	5	2/28/2018	P	<0.0027 UJ	<0.0057 UJ	<0.0072	<0.0013	<0.0089
	DUP-022818	5	2/28/2018	FD	**0.025 J**	**0.046 J**	<0.007	<0.0013	<0.0087
SV08	SV08A	4	11/4/2009	P	<0.008	<0.008	--	<0.008	**0.060**
	SV08A	4	11/4/2009	P	<0.062	<0.064	--	<0.029	**0.051**
	SV08A-091510	4	9/15/2010	P	<0.008	<0.008	--	<0.008	<0.008
SV09	SV09	5	11/4/2009	P	<0.008	<0.008	--	<0.008	**1.44**
	SV09	5	9/15/2010	P	<0.064	<0.067	--	<0.03	**0.286**
	SV09-5' 1P	5	9/15/2010	1P	<0.008	<0.008	--	<0.008	**0.274**
	SV09-5' 3P	5	9/15/2010	3P	<0.008	<0.008	--	<0.008	**0.289**
	SV09-5' 10P	5	9/15/2010	10P	<0.008	<0.008	--	<0.008	**0.278**
SV19	SV19	4.4	11/4/2009	P	<0.008	<0.008	--	<0.008	<0.008
SV22	SV22	3	11/3/2009	P	<0.008	<0.008	--	<0.008	**2.39**
SV24	SV24	5.2	11/3/2009	P	<2.5	<2.6	--	<1.2	**172**
	SV24-1P	5.2	11/3/2009	1P	<0.008	<0.008	--	<0.008	**52.1**
	SV24-3P	5.2	11/3/2009	3P	<0.008	<0.008	--	<0.008	**136**
	SV24-7P	5.2	11/3/2009	7P	<0.008	<0.008	--	<0.008	**103**
	SV24-5.2'	5.2	9/15/2010	P	<0.008	<0.008	--	<0.008	**28.3**
SV25	SV25	3.2	11/5/2009	P	<0.008	<0.008	--	<0.008	<0.008
	SV25-3.2 1P	3.2	9/15/2010	1P	<0.008	<0.008	--	<0.008	<0.008
	SV25-3.2 3P	3.2	9/15/2010	3P	<0.008	<0.008	--	<0.008	<0.008
	SV25-3.2 10P	3.2	9/15/2010	10P	<0.008	<0.008	--	<0.008	<0.008
SV30	SV30	6	11/3/2009	P	<0.008	<0.008	--	<0.008	**1.13**
	SV30-6.0'	6	9/15/2010	P	<0.008	<0.008	--	<0.008	<0.008

TABLE A-10

ANALYTICAL DATA: TOTAL PETROLEUM HYDROCARBONS IN SOIL VAPOR

TANK FARM AREA, POTRERO POWER PLANT

SAN FRANCISCO, CALIFORNIA

Location ID	Sample ID	Sample Depth (feet bgs)	Sample Date	Sample Type	TPH (C5-C8) Aliphatic	TPH (C6-C8) Aromatic	TPH (C9-C16) Aromatic	TPH (C9-C18) Aliphatic
SV08	SV08A	4	11/4/2009	P	**41.3**	**0.269**	**0.077**	**9.38**
	SV08A-091510	4	9/15/2010	P	**69.4**	<0.2	**0.129**	**85.9**
SV09	SV09	5	11/4/2009	P	**78.7**	**253**	**7.22**	**30.3**
	SV09-5' 1P	5	9/15/2010	1P	**19.5**	**1.82**	**1.69**	**23.5**
	SV09-5' 3P	5	9/15/2010	3P	**23.4**	**2.79**	**1.82**	**24.1**
	SV09-5' 10P	5	9/15/2010	10P	**21.8**	**2.17**	**2.01**	**30.1**
SV19	SV19	4.4	11/4/2009	P	**0.353**	**0.388**	**0.156**	**1.58**
SV22	SV22	3	11/3/2009	P	**164**	**25.7**	**0.73**	**36**
SV24	SV24-1P	5.2	11/3/2009	1P	**6.33**	**807**	**48**	**24.8**
	SV24-3P	5.2	11/3/2009	3P	**23.5**	**1430**	**63.3**	**24.4**
	SV24-7P	5.2	11/3/2009	7P	**16.2**	**1150**	**53.4**	**18.6**
	SV24-5.2'	5.2	9/15/2010	P	<0.2	**466**	**305**	**72.3**
SV25	SV25	3.2	11/5/2009	P	<0.025	<0.025	<0.025	<0.025
	SV25-3.2 1P	3.2	9/15/2010	P	<0.2	<0.2	**0.066**	<0.2
	SV25-3.2 3P	3.2	9/15/2010	3P	<0.2	<0.2	**0.088**	<0.2
	SV25-3.2 10P	3.2	9/15/2010	10P	<0.2	<0.2	**0.063**	<0.2
SV30	SV30	6	11/3/2009	P	**3.94**	**7.01**	**2.07**	**0.556**
	SV30-6.0'	6	9/15/2010	P	<0.2	**0.076**	**1.37**	<0.2

Notes:

All analytical results are presented in milligrams per cubic meter (mg/m^3).

Detected results are presented in **bold**.

-- = Not analyzed for

< = Analyte was not detected at the given detection limit

1P, 3P, 7P, 10P = 1, 3, 7, or 10 volumes purged before the sample was collected. Samples collected from the same location, depth, and date with varying purge volumes were treated as duplicate samples.

P = Primary sample, number before the sample type indicates the number of volumes purged before samples were collected. Co-located samples collected with varying purge volumes were treated as duplicate samples.

TABLE B-8
ANALYTICAL DATA INCLUDED IN THE HHRA: VOLATILE ORGANIC COMPOUNDS IN SOIL VAPOR
Tank Farm Area, Potrero Power Plant
San Francisco, CA

Location ID	Sample ID	Sample Depth (feet bgs)	Sample Date	Sample Type	Sample Method	1,2,4-Trimethylbenzene	1,3,5-Trimethyl-benzene	2-Butanone (MEK)	4-Ethyltoluene	Acetone	Benzene	Carbon Disulfide	Chloroform	Chloromethane (methyl chloride)	cis-1,2-Dichloroethene (cis-1,2-DCE)	Dichloro-difluoromethane (Freon 12)
GB-135	GB-135-SV-4	4	12/18/2017	P	TO-15	<0.0074	<0.0025	<0.0044	<0.0025	**0.018**	**0.0017**	**0.0066**	**0.0045**	<0.001	<0.002	**0.0054**
GB-137	GB-137-SV-4	4	12/15/2017	P	TO-15	<0.0074	**0.0026**	<0.0044	<0.0025	**0.020**	**0.019**	**0.16**	**0.0028**	<0.001	<0.002	**0.1**
GB-141	GB-141-SV-8	8	12/15/2017	P	TO-15	<0.0074	<0.0025	**0.0051**	<0.0025	**0.033**	**0.073**	**0.16**	**0.029**	**0.0015**	<0.002	<0.0025
GB-142	GB-142-SV-6	6	12/14/2017	P	TO-15	<0.024	<0.008	<0.014	<0.008	<0.015	**0.065**	<0.02	<0.0079	<0.0034	<0.0064	<0.008
GB-143	GB-143-SV-6	6	12/14/2017	P	TO-15	**0.15**	**0.76**	<0.077	**0.27**	<0.083	**2.7**	**0.12**	**0.044**	<0.018	<0.034	<0.043
GB-145	GB-145-SV-5	5	12/14/2017	P	TO-15	<0.0074	<0.0025	<0.0045	<0.0025	**0.0082**	<0.0016	<0.0063	**0.0086**	<0.001	<0.002	<0.0025
GB-146	GB-146-SV-7	7	12/18/2017	P	TO-15	**3.9**	**1.6**	<0.022	**0.56**	**0.074**	**11**	**0.098**	<0.012	<0.0052	<0.0099	<0.012
GB-147	GB-147-SV-5	5	12/15/2017	P	TO-15	<0.29	<0.098	<0.18	<0.098	<0.19	**1.8**	<0.25	<0.098	<0.041	<0.079	<0.099
GB-148	GB-148-SV-6	6	12/18/2017	P	TO-15	**1.6**	**0.81**	<0.18	**0.55**	**0.61**	**280**	<0.25	<0.098	<0.041	<0.079	<0.099
GB-149A	GB-149A-SV-5	5	2/28/2018	P	TO-15	<0.0074	<0.0025	<0.0044	<0.0025	**0.0074**	**0.007**	<0.0062	<0.0024	<0.001	<0.002	<0.0025
GB-150A	GB-150A-SV-5	5	2/28/2018	P	TO-15	<0.0074	<0.0025	<0.0044	<0.0025	**0.063**	**0.0096**	**0.017**	<0.0024	<0.001	**0.0036**	<0.0025
GB-151	GB-151-SV-5	5	12/18/2017	P	TO-15	<0.29	<0.098	<0.18	<0.098	<0.19	**77 J**	<0.25	<0.098	<0.041	<0.079	<0.099
	GB-151-SV-8	8	12/18/2017	P	TO-15	**1.2**	**0.76**	<0.18	**1.7**	<0.19	**260**	<0.25	<0.098	<0.041	<0.079	<0.099
GB-152	GB-152-SV-6	6	12/14/2017	P	TO-15	<0.02	<0.0066	<0.012	<0.0066	<0.013	<0.0043	<0.017	<0.0065	<0.0028	<0.0053	<0.0066
GB-153	GB-153-SV-8	8	12/15/2017	P	TO-15	<0.046	<0.015	<0.028	<0.015	<0.03	**0.034**	**0.14**	<0.015	<0.0065	<0.012	<0.015
GB-154	GB-154-SV-5	5	12/18/2017	P	TO-15	<0.0074	<0.0025	<0.0044	<0.0025	<0.0048	<0.0016	<0.0062	**0.0028**	<0.001	<0.002	<0.0025
	DUP-121817	5	12/18/2017	FD	TO-15	<0.0074	<0.0025	<0.0044	<0.0025	**0.011**	<0.0016	<0.0062	**0.0026**	<0.001	<0.002	<0.0025
GB-155B/155C	GB-155C-SV-3	3	2/28/2018	P	TO-15	<0.029	<0.0098	<0.018	<0.0098	**0.080**	**0.038**	<0.025	**0.03**	<0.0041	<0.0079	<0.0099
	GB-155B-SV-5	5	2/27/2018	P	TO-15	<0.29	<0.098	<0.18	<0.098	<0.19	**5.2**	<0.25	<0.098	<0.041	<0.079	<0.099
GB-156B	GB-156B-SV-5	5	2/28/2018	P	TO-15	<0.0074	<0.0025	<0.0044	<0.0025	**0.012**	<0.0016	<0.0062	**0.0084**	<0.001	<0.002	**0.0037**
GB-174	GB-174-SV-5	5	2/28/2018	P	TO-15	<0.0075	<0.0025	<0.0045	<0.0025	**0.043**	<0.0016	<0.0064	**0.0069 J**	<0.0011	<0.002	<0.0025
	DUP-022818	5	2/28/2018	FD	TO-15	<0.0074	<0.0025	**0.0081**	<0.0025	**0.030**	<0.0016	<0.0062	<0.0024 UJ	<0.001	<0.002	<0.0025
SV19	SV19	4.4	11/4/2009	P	8260B	<0.008	<0.008	--	--	--	**0.052**	--	<0.008	<0.008	<0.008	<0.008
SV22	SV22	3	11/3/2009	P	8260B	**0.392**	**0.15**	--	--	--	**22**	--	<0.008	<0.008	<0.008	<0.008
SV25	SV25	3.2	11/5/2009	P	8260B	<0.008	<0.008	--	--	--	<0.008	--	<0.008	<0.008	<0.008	<0.008
	SV25-3.2 1P	3.2	9/15/2010	1P	8260B	<0.008	<0.008	--	--	--	<0.008	--	<0.008	<0.008	<0.008	<0.008
	SV25-3.2 3P	3.2	9/15/2010	3P	8260B	<0.008	<0.008	--	--	--	<0.008	--	<0.008	<0.008	<0.008	<0.008
	SV25-3.2 10P	3.2	9/15/2010	10P	8260B	<0.008	<0.008	--	--	--	<0.008	--	<0.008	<0.008	<0.008	<0.008

TABLE B-8
ANALYTICAL DATA INCLUDED IN THE HHRA: VOLATILE ORGANIC COMPOUNDS IN SOIL VAPOR
Tank Farm Area, Potrero Power Plant
San Francisco, CA

Location ID	Sample ID	Sample Depth (feet bgs)	Sample Date	Sample Type	Ethanol	Ethylbenzene	Hexane	m,p-Xylenes	Methyl tert-butyl ether (MTBE)	Naphthalene[a]	o-Xylene	sec-Butylbenzene	Styrene	Tetrachloro-ethene	Toluene	Trichloro-ethene (TCE)
GB-135	GB-135-SV-4	4	12/18/2017	P	**0.011**	<0.0022	--	<0.0087	<0.0072	<0.026	<0.0022	--	<0.0064	**0.35**	<0.0019	<0.0027
GB-137	GB-137-SV-4	4	12/15/2017	P	<0.0094	**0.011**	--	**0.011**	<0.0072	<0.026	**0.0031**	--	<0.0064	<0.0034	**0.0053**	<0.0027
GB-141	GB-141-SV-8	8	12/15/2017	P	<0.0094	**0.015**	--	<0.0087	**0.016**	<0.026	**0.0078**	--	<0.0064	<0.0034	**0.0098**	**0.056**
GB-142	GB-142-SV-6	6	12/14/2017	P	<0.031	**0.047**	--	**0.034**	<0.023	<0.085	**0.011**	--	<0.021	<0.011	**0.031**	<0.0087
GB-143	GB-143-SV-6	6	12/14/2017	P	<0.16	**1.4**	--	<0.15	<0.13	<0.46	**0.2**	--	<0.11	<0.059	**0.17**	<0.047
GB-145	GB-145-SV-5	5	12/14/2017	P	<0.0095	<0.0022	--	<0.0088	<0.0073	<0.026	<0.0022	--	<0.0065	**0.0077**	**0.0037**	<0.0027
GB-146	GB-146-SV-7	7	12/18/2017	P	<0.047	**16**	--	**10**	<0.036	**13**	**7.5**	--	**0.13**	<0.017	**3.7**	<0.013
GB-147	GB-147-SV-5	5	12/15/2017	P	<0.38	**0.44**	--	**0.58**	<0.29	<1	**0.26**	--	<0.26	<0.14	**0.59**	<0.11
GB-148	GB-148-SV-6	6	12/18/2017	P	<0.38	**21 J**	--	**12**	<0.29	**4.1 J**	**6.7**	--	**0.70**	<0.14	**17 J**	<0.11
GB-149A	GB-149A-SV-5	5	2/28/2018	P	<0.0094	<0.0022	--	<0.0087	<0.0072	<0.026	<0.0022	--	<0.0064	<0.0034	<0.0019	<0.0027
GB-150A	GB-150A-SV-5	5	2/28/2018	P	<0.0094	**0.0046**	--	<0.0087	<0.0072	**0.085**	**0.0026**	--	<0.0064	**0.0064**	**0.0066**	<0.0027
GB-151	GB-151-SV-5	5	12/18/2017	P	<0.38	**1.1**	--	<0.35	<0.29	**5.6**	**0.15**	--	<0.26	<0.14	**0.64**	<0.11
	GB-151-SV-8	8	12/18/2017	P	<0.38	**70**	--	**12**	<0.29	**3.7**	**7.4**	--	**0.34**	<0.14	**7.9**	<0.11
GB-152	GB-152-SV-6	6	12/14/2017	P	<0.025	<0.0058	--	<0.023	<0.019	<0.07	<0.0058	--	<0.017	<0.0091	<0.005	<0.0072
GB-153	GB-153-SV-8	8	12/15/2017	P	<0.059	**0.016**	--	<0.054	<0.045	<0.16	<0.014	--	<0.04	<0.021	**0.021**	<0.017
GB-154	GB-154-SV-5	5	12/18/2017	P	<0.0094	<0.0022	--	<0.0087	<0.0072	<0.026	<0.0022	--	<0.0064	**0.24**	<0.0019	<0.0027
	DUP-121817	5	12/18/2017	FD	<0.0094	<0.0022	--	<0.0087	<0.0072	<0.026	<0.0022	--	<0.0064	**0.24**	<0.0019	<0.0027
GB-155B/155C	GB-155C-SV-3	3	2/28/2018	P	<0.038	**0.01 J**	--	<0.035	<0.029	<0.1	<0.0087	--	<0.026	<0.014	**0.0088**	<0.011
	GB-155B-SV-5	5	2/27/2018	P	<0.38	**0.41**	--	**0.64**	<0.29	**1.6**	**0.35**	--	<0.26	<0.14	**1.0**	<0.11
GB-156B	GB-156B-SV-5	5	2/28/2018	P	<0.0094	<0.0022	--	<0.0087	<0.0072	<0.026	<0.0022	--	<0.0064	<0.0034	<0.0019	**0.0046**
GB-174	GB-174-SV-5	5	2/28/2018	P	**0.12 J**	<0.0022	--	<0.0089	<0.0074	<0.027	<0.0022	--	<0.0065	<0.0035	<0.0019	<0.0027 UJ
	DUP-022818	5	2/28/2018	FD	<0.0094 UJ	<0.0022	--	<0.0087	<0.0072	<0.026	<0.0022	--	<0.0064	<0.0034	<0.0019	**0.025 J**
SV19	SV19	4.4	11/4/2009	P	--	<0.008	**0.35**	--	<0.008	**0.16**	--	<0.008	<0.008	<0.008	**0.34**	<0.008
SV22	SV22	3	11/3/2009	P	--	<0.008	**1.8**	--	<0.008	<0.008	--	**0.19**	<0.008	<0.008	**1.2**	<0.008
SV25	SV25	3.2	11/5/2009	P	--	<0.008	<0.008	--	<0.008	<0.008	--	<0.008	<0.008	<0.008	<0.008	<0.008
	SV25-3.2 1P	3.2	9/15/2010	1P	--	<0.008	--	--	<0.008	**0.066**	--	<0.008	<0.008	<0.008	<0.008	<0.008
	SV25-3.2 3P	3.2	9/15/2010	3P	--	<0.008	--	--	<0.008	**0.088**	--	<0.008	<0.008	**0.024**	<0.008	<0.008
	SV25-3.2 10P	3.2	9/15/2010	10P	--	<0.008	--	--	<0.008	**0.063**	--	<0.008	<0.008	**0.012**	<0.008	<0.008

TABLE B-8
ANALYTICAL DATA INCLUDED IN THE HHRA: VOLATILE ORGANIC COMPOUNDS IN SOIL VAPOR
Tank Farm Area, Potrero Power Plant
San Francisco, CA

Location ID	Sample ID	Sample Depth (feet bgs)	Sample Date	Sample Type	Trichloro-fluoromethane (Freon 11)	Vinyl Chloride	Xylenes
GB-135	GB-135-SV-4	4	12/18/2017	P	**0.019**	<0.0013	<0.0087
GB-137	GB-137-SV-4	4	12/15/2017	P	**0.24**	<0.0013	**0.014**
GB-141	GB-141-SV-8	8	12/15/2017	P	<0.0056	<0.0013	**0.0078**
GB-142	GB-142-SV-6	6	12/14/2017	P	<0.018	<0.0042	**0.045**
GB-143	GB-143-SV-6	6	12/14/2017	P	<0.098	<0.022	**0.20**
GB-145	GB-145-SV-5	5	12/14/2017	P	<0.0057	<0.0013	<0.0088
GB-146	GB-146-SV-7	7	12/18/2017	P	<0.028	<0.0064	**18**
GB-147	GB-147-SV-5	5	12/15/2017	P	<0.22	<0.051	**0.84**
GB-148	GB-148-SV-6	6	12/18/2017	P	<0.22	<0.051	**19**
GB-149A	GB-149A-SV-5	5	2/28/2018	P	**0.041**	<0.0013	<0.0087
GB-150A	GB-150A-SV-5	5	2/28/2018	P	<0.0056	**0.011**	**0.0026**
GB-151	GB-151-SV-5	5	12/18/2017	P	<0.22	<0.051	**0.15**
	GB-151-SV-8	8	12/18/2017	P	<0.22	<0.051	**19**
GB-152	GB-152-SV-6	6	12/14/2017	P	<0.015	<0.0034	<0.023
GB-153	GB-153-SV-8	8	12/15/2017	P	<0.035	<0.008	<0.054
GB-154	GB-154-SV-5	5	12/18/2017	P	<0.0056	<0.0013	<0.0087
	DUP-121817	5	12/18/2017	FD	<0.0056	<0.0013	<0.0087
GB-155B/155C	GB-155C-SV-3	3	2/28/2018	P	<0.022	<0.0051	<0.035
	GB-155B-SV-5	5	2/27/2018	P	<0.22	<0.051	**0.99**
GB-156B	GB-156B-SV-5	5	2/28/2018	P	<0.0056	<0.0013	<0.0087
GB-174	GB-174-SV-5	5	2/28/2018	P	<0.0057 UJ	<0.0013	<0.0089
	DUP-022818	5	2/28/2018	FD	**0.046 J**	<0.0013	<0.0087
SV19	SV19	4.4	11/4/2009	P	<0.008	<0.008	<0.008
SV22	SV22	3	11/3/2009	P	<0.008	<0.008	**2.4**
SV25	SV25	3.2	11/5/2009	P	<0.008	<0.008	<0.008
	SV25-3.2 1P	3.2	9/15/2010	1P	<0.008	<0.008	<0.008
	SV25-3.2 3P	3.2	9/15/2010	3P	<0.008	<0.008	<0.008
	SV25-3.2 10P	3.2	9/15/2010	10P	<0.008	<0.008	<0.008

TABLE B-8
ANALYTICAL DATA INCLUDED IN THE HHRA: VOLATILE ORGANIC COMPOUNDS IN SOIL VAPOR
Tank Farm Area, Potrero Power Plant
San Francisco, CA

Notes:
All analytical results are presented in milligrams per cubic meter (mg/m^3).
Detected results are presented in **bold**.
Shaded results = Results for the soil vapor samples collected at 8 feet bgs at GB-151 and 5 feet bgs at GB-155B/155C below a concrete slab were not included in the dataset used to estimate outdoor air concentrations specifically for current off-site workers; concentrations above the slab from these locations were lower and considered more representative of source concentrations to outdoor air for these receptors under current Site conditions. Results for the soil vapor samples collected below the concrete slab were included in the dataset used to estimate outdoor air concentrations for hypothetical future on-site receptors assuming the concrete slab could be removed during redevelopment.

-- = Not analyzed for
< = Analyte was not detected at the given detection limit
bgs = Below ground surface
1P, 3P, 7P, 10P = 1, 3, 7, or 10 volumes purged before the sample was collected. Samples collected from the same location, depth, and date with varying purge volumes were treated as duplicate samples.
FD = Field duplicate
P = Primary sample; number before the sample type indicates the number of volumes purged before samples were collected.
J = Estimated value
J- = Estimated value; biased low.
[a] Polycyclic aromatic hydrocarbons (PAHs) napthalene and 2-methylnaphthalene were also analyzed for in September 2009 soil vapor samples using USEPA Method TO-17 (sample locations SV22 and SV25). Naphthalene was detected at one of these sample locations (SV22) at concentrations of 0.16 mg/m^3; 2-methylnaphthalene was not detected.

TABLE B-9

ANALYTICAL DATA INCLUDED IN THE HHRA: TOTAL PETROLEUM HYDROCARBONS IN SOIL VAPOR

TANK FARM AREA, POTRERO POWER PLANT

SAN FRANCISCO, CALIFORNIA

Location ID	Sample ID	Sample Depth (feet bgs)	Sample Date	Sample Type	TPH (C5-C8) Aliphatic	TPH (C6-C8) Aromatic	TPH (C9-C16) Aromatic	TPH (C9-C18) Aliphatic
SV19	SV19	4.4	11/4/2009	P	**0.353**	**0.388**	**0.156**	**1.58**
SV22	SV22	3	11/3/2009	P	**164**	**25.7**	**0.73**	**36**
SV25	SV25	3.2	11/5/2009	P	<0.025	<0.025	<0.025	<0.025
	SV25-3.2 1P	3.2	9/15/2010	P	<0.2	<0.2	**0.066**	<0.2
	SV25-3.2 3P	3.2	9/15/2010	3P	<0.2	<0.2	**0.088**	<0.2
	SV25-3.2 10P	3.2	9/15/2010	10P	<0.2	<0.2	**0.063**	<0.2

Notes:

All analytical results are presented in milligrams per cubic meter (mg/m^3).

Detected results are presented in **bold**.

-- = Not analyzed for

< = Analyte was not detected at the given detection limit

1P, 3P, 7P, 10P = 1, 3, 7, or 10 volumes purged before the sample was collected. Samples collected from the same location, depth, and date with varying purge volumes were treated as duplicate samples.

P = Primary sample, number before the sample type indicates the number of volumes purged before samples were collected. Co-located samples collected with varying purge volumes were treated as duplicate samples.

APPENDIX B

Response to Water Board VIHRA Comments

Response to Water Board VIHRA Comments
Potrero Power Station
San Francisco, California

Comment No.	Regional Water Board VIHRA Comment	Geosyntec Response
1	***Section 3.4.2 (Vapor Intrusion Risk Characterization), Scenario 3*** *– Revise the Scenario 3 analysis with an adequately justified attenuation factor (AF). At this time, we are unaware of empirical data supporting the use of the cited 0.001 AF for future buildings. Moreover, the Regional Water Board has never employed this AF in developing screening levels because: (1) based on discussions with bay area geotechnical engineers, the use of soil with greater than 20% clay as engineered fill is neither desirable nor typical because above 20%, clay will dominate the mechanical behavior of the soil, is subject to shrink and swell, and will retain moisture; and (2) the assumed moisture content (half of the total porosity) is more representative of site conditions immediately after soil compaction and moisture conditioning than long-term conditions after drying and limited water infiltration beneath buildings (Tillman and Weaver 2007).* *Regional Water Board staff agrees that the use of the 0.03 AF developed by USEPA (2012) based on chlorinated VOCs is overly conservative for petroleum hydrocarbons. However, due to lack of a petroleum VOC AF, we employ this AF as a surrogate. As discussed in the ESL User's Guide Section 5.4.4, use of*	The use of an attenuation factor (AF) of 0.001 for petroleum hydrocarbons (PHCs) in soil vapor for the Scenario 3 analysis of the VIHRA is based on numerous studies documenting that PHCs (e.g., benzene, naphthalene) have a propensity to biodegrade in the vadose zone through the actions of microorganisms found naturally in soil particularly in oxygen-rich environments.[1] These studies indicate that PHCs are readily degraded to carbon dioxide (CO_2) in the presence of oxygen by ubiquitous soil microbes. Oxygen (O_2) is supplied from the atmosphere by vapor diffusion and barometric pumping and is a dissolved solute in infiltrating rainwater. Aerobic degradation frequently occurs in a relatively thin zone where the concentrations of O_2 and hydrocarbons are most ideal for microbial processes. Recent work suggests that even for sites with the presence of pure petroleum product and contamination two or more meters below surface, emissions of PHCs will tend to be insignificant at lateral distances of 100 feet cross gradient to groundwater flow from sources.[2] PHCs are further limited in lateral migration if oxygen is present.[3] Under aerobic conditions, biodegradation can result in attenuation of PHCs by four to six orders of magnitude over vertical distances of 6 feet or less in the vadose zone, and an additional order of magnitude across building foundations in the absence of a vapor barrier. An

[1] USEPA. 2015. *OSWER Technical Guide for Assessing and Mitigating the Vapor Intrusion Pathway from Subsurface Vapor Sources to Indoor Air*, Office of Solid Waste and Emergency Response Publication 9200.2-154, Washington, D.C. June

[2] State Water Resources Control Board (SWRCB). 2011. *Technical Justification for Low-Threat Closure Scenarios for Petroleum Vapor Intrusion Pathway*. State Water Resources Control Board. 1 June.

[3] Interstate Technology and Regulatory Council (ITRC). 2007. *Vapor Intrusion Pathway: A Practical Guideline.* January.

Comment No.	Regional Water Board VIHRA Comment	Geosyntec Response
	the bioattenuation factor of 0.001 can be employed provided there is a demonstration of sufficient oxygen in the subsurface (4% oxygen). Regional Water Board staff have observed multiple orders of magnitude decreases in petroleum vapor concentrations over just a few vertical feet of transport through soil in the presence of sufficient oxygen. Given the planned construction of new buildings, indicate how sufficient oxygen beneath buildings will be sustained because oxygen can be limited beneath large buildings that tend to have thicker slabs (Lahvis et al. 2013; Eklund and Burrows 2009; Patterson and Davis 2009).	analysis of empirical data indicated vertical distances of only 8 feet were found to be sufficient to attenuate light non-aqueous phase liquid sources.[4] The VIHRA presented an assessment on the theoretical risk and potential adverse health effects from possible exposure to chemicals in soil vapor via the vapor intrusion pathway for a future resident in units constructed over an underground parking garage. Soil vapor samples collected within four areas of the Potrero Power Station, Station A, Unit 3, Tank Farm, and the Northeast Area, were independently evaluated. Within Unit 3, soil vapor samples reported oxygen concentrations ranging between 13.1 and 19.8 percent in samples from depths to 8.25 feet below ground surface (bgs).[5] As presented in the *Supplemental Soil Vapor Sampling Report*[6] and *Tank Farm Area Investigation Report*,[7] oxygen was detected from 4.1 to 20 percent using field instrumentation. At some locations within Station A and the Tank Farm, oxygen was depleted (1 to 3.4 percent), but most of these depleted results were strongly correlated with elevated methane (3.7 to 33 percent).[6, 7] As discussed

[4] USEPA. 2011. *Petroleum Hydrocarbons and Chlorinated Hydrocarbons Differ in their Potential for Vapor Intrusion*. Office of Underground Storage Tanks, Washington, D.C.
[5] Haley and Aldrich. 2017. *Former Unit 3 Power Generation Facility Investigation Report and Human Health Risk Assessment, Potrero Power Plant, San Francisco, California*. June.
[6] AMEC. 2010b. *Report of Results, Supplemental Soil Vapor Sampling, Potrero Power Plant Site, San Francisco, California*. December.
[7] Haley & Aldrich, Inc. 2018. *Tank Farm Area Investigation Report, Potrero Power Plant Site, San Francisco, California.* July.

Comment No.	Regional Water Board VIHRA Comment	Geosyntec Response
		in these reports, "*The strong correlation between elevated concentrations of methane and depleted oxygen indicates that the source of methane in soil vapor is the biodegradation of hydrocarbons in the subsurface. This is further supported by the low to non-detect concentrations of mercaptans, tert-butyl mercaptan and tetrahydrothiophene, in soil vapor samples and the lack of natural gas lines in the area.*" Based on a underground garage adjusted AF of 0.0075 for non-petroleum based chemicals and an AF of 0.001 for PHCs, the results of the VIHRA indicate that some form of risk management or remediation of the source of COPCs in soil vapor may be appropriate to address elevated levels of volatile COPCs reported in all areas of the former Potrero Power Station except for Station A. However, given the proximity of residual source areas within the Tank Farm and Northeast Areas to the northern boundary and northeast corner of Station A, the VIHRA recommended the collection and analysis of contemporaneous soil vapor samples to validate the risk assessment conclusions. While specific details on potential risk management measures, such as a vapor intrusion mitigation system (VIMS), are not available at this time, the VIMS will likely include a passive venting system beneath the underground garage where "fresh" or ambient outdoor air will be introduced into the system enhancing the biodegradation of any residual PHCs in subsurface soil vapor. Thus, if oxygen levels are limited due to the planned construction of the

Comment No.	Regional Water Board VIHRA Comment	Geosyntec Response
		underground garage and a thicker foundation slab, the VIMS will be designed to provide an environment that is conducive for bioattenuation. Based on the above discussion, Geosyntec does not propose any revisions to the document.
2	**Table 1** – Revise the Residential Remedy Required column to indicate that it is not just the construction of the garage ventilated to code, but also the removal of contaminated vadose zone soil (likely a source of VOCs in soil vapor) that is a component of the remedy.	Table 1 has been revised as suggested. We point out that soil excavation and removal is not a component of the remedy; soil within the area excavated for the subsurface garages will be removed, profiled, and disposed offsite, as appropriate, potentially removing "source" material, if any, for VOCs in soil vapor.

APPENDIX D

Area-Specific Analytical Data Tables and Figures

NORTHEAST AREA

(Figure and Tables from "Post-Remediation Performance Monitoring and Conditions Report, Northeast Area of the Potrero Power Plant Site, San Francisco, California," dated March 31, 2020, prepared by Terra Pacific Group, Inc.)

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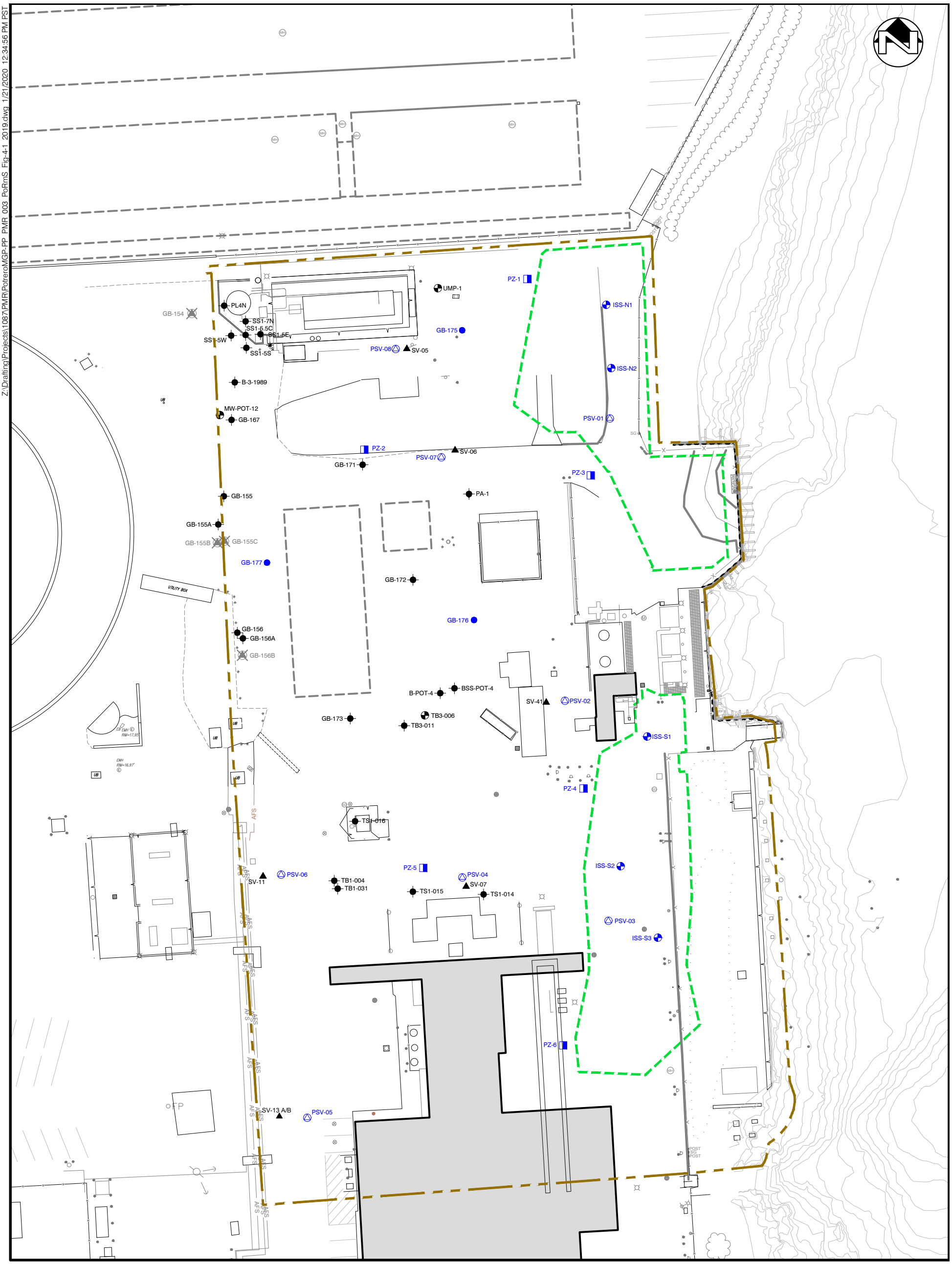


EXPLANATION

- PIEZOMETER (TPG, 2019)
- GROUNDWATER MONITORING WELL (TPG, 2019)
- SOIL VAPOR PROBE (TPG, 2019)
- BORING (TPG, 2019)
- GROUNDWATER MONITORING WELL
- PREVIOUS SOIL VAPOR PROBE
- PREVIOUS BORING
- DESTROYED SOIL VAPOR WELL
- NORTHEAST AREA BOUNDARY
- ISS AREA
- FORMER BUILDING
- EXISTING BUILDING

0 50 100 FEET
APPROXIMATE SCALE

NOTES:
1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. BASE MAP SOURCED FROM: RJL & ASSOCIATE, 2015 AND HALEY & ALDRICH 2018

FIGURE 3-1

SAMPLE LOCATIONS REPRESENTATIVE OF POST-REMEDIATION CONDITIONS

POTRERO POWER PLANT - NORTHEAST AREA
SAN FRANCISCO, CALIFORNIA

TERRA PACIFIC GROUP
Environmental Engineering, Consulting, and Construction

TABLE F-1
VOLATILE ORGANIC COMPOUNDS IN SOIL
NORTHEAST AREA OF THE POTRERO POWER PLANT SITE
SAN FRANCISCO, CALIFORNIA

Sample Location	Sample Depth (feet bgs)	Sample Type	Sample Date	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1,2-Trichlorotrifluoroethane (Freon 113)	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropane (DBCP)
B-POT-4	1.5	P	22-Feb-91	--	--	--	--	--	--	--	--	--	--	--	--	--
B-POT-4	5	P	22-Feb-91	--	--	--	--	--	--	--	--	--	--	--	--	--
GB-155	2	P	16-Nov-17	<0.00082	<0.00082	<0.0016	<0.00082	<0.0082	<0.00082	<0.00082	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016	<0.0041
GB-155A	5	P	02-Jan-18	<0.24	<0.24	<0.48	<0.24	<2.4	<0.24	<0.24	<0.48	<0.48	<0.48	<0.48	<0.48	<1.2
GB-155A	9	P	04-Jan-18	<2.8	<2.8	<5.6	<2.8	<28	<2.8	<2.8	<5.6	<5.6	<5.6	<5.6	<5.6	<14
GB-155B	5.5	P	23-Feb-18	<0.00087	<0.00087	<0.0017	<0.00087	<0.0087	<0.00087	<0.00087	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0043
GB-155C	3	P	23-Feb-18	<0.00078	<0.00078	<0.0016	<0.00078	<0.0078	<0.00078	<0.00078	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016	<0.0039
GB-156	2	P	16-Nov-17	<0.00083	<0.00083	<0.0017	<0.00083	<0.0083	<0.00083	<0.00083	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0041
GB-156A	5	P	02-Jan-18	<0.00083	<0.00083	<0.0017	<0.00083	<0.0083	<0.00083	<0.00083	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0041
GB-156B	5.5	P	22-Feb-18	<0.00091	<0.00091	<0.0018	<0.00091	<0.0091	<0.00091	<0.00091	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0046
GB-167	5.5	P	12-Jan-18	--	--	--	--	--	--	--	--	--	--	--	--	--
GB-167	9	P	12-Jan-18	--	--	--	--	--	--	--	--	--	--	--	--	--
GB-171	1.5	P	10-Jan-18	<0.00083	<0.00083	<0.0017	<0.00083	<0.0083	<0.00083	<0.00083	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0041
GB-172	2	P	10-Jan-18	<0.00085	<0.00085	<0.0017	<0.00085	<0.0085	<0.00085	<0.00085	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0042
GB-172	6.5	P	11-Jan-18	<0.038	<0.038	<0.076	<0.038	<0.38	<0.038	<0.038	<0.076	<0.076	<0.076	<0.076	<0.076	<0.19
GB-173	2	P	10-Jan-18	<0.00097	<0.00097	<0.0019	<0.00097	<0.0097	<0.00097	<0.00097	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0048
GB-173	8.5	P	11-Jan-18	<6.2	<6.2	<12	<6.2	<62	<6.2	<6.2	<12	<12	<12	<12	<12	<31
GB-175	5	P	30-May-19	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0079
GB-176	8.5	P	29-May-19	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.75
GB-177	5	P	23-May-19	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0078
GB-177	9	P	23-May-19	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0074
MW-POT-12	3	P	26-Feb-91	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-POT-12	5.5	P	26-Feb-91	--	--	--	--	--	--	--	--	--	--	--	--	--
PL4N	5	P	23-Apr-90	--	--	--	--	--	--	--	--	--	--	<0.10	--	--
PSV-07	5	P	22-May-19	<420	<420	<420	<420	<420	<420	<420	<420	<420	<420	<420	<420	<850
PSV-07	10	P	22-May-19	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<7.7
PSV-08	5	P	22-May-19	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	<0.0066
PSV-08	7	P	22-May-19	<230	<230	<230	<230	<230	<230	<230	<230	<230	<230	<230	<230	<470
PZ-2	4.5	P	28-May-19	<8.6	<8.6	<8.6	<8.6	<8.6	<8.6	<8.6	<8.6	<8.6	<8.6	<8.6	<8.6	<17
PZ-2	7.5	P	30-May-19	<21	<21	<21	<21	<21	<21	<21	<21	<21	<21	<21	<21	<43
PZ-2	8	P	30-May-19	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.61
SS1-5.5C	6	P	04-Apr-90	--	--	--	--	--	--	--	--	--	--	--	--	--
SS1-5E	5.5	P	04-Apr-90	--	--	--	--	--	--	--	--	--	--	--	--	--
SS1-5S	5.5	P	04-Apr-90	--	--	--	--	--	--	--	--	--	--	--	--	--
SS1-5W	5.5	P	04-Apr-90	--	--	--	--	--	--	--	--	--	--	--	--	--
SS1-7N	7.5	P	04-Apr-90	--	--	--	--	--	--	--	--	--	--	--	--	--
TB1-031	1	P	30-Jun-98	<0.0050	<0.0050	<0.0050	<0.0050	--	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
TB1-031	6	P	30-Jun-98	<0.0050	<0.0050	<0.0050	<0.0050	--	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
TB1-031	10	P	30-Jun-98	<0.0050	<0.0050	<0.0050	<0.0050	--	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
TB3-006	10	P	18-Nov-97	<6.1	<6.1	<6.1	<6.1	--	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1
TS1-014	1	P	10-Dec-97	<0.0053	<0.0053	<0.0053	<0.0053	--	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053
TS1-014	1	FD	10-Dec-97	<0.0053	<0.0053	<0.0053	<0.0053	--	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053
TS1-015	1	P	10-Dec-97	<0.0055	<0.0055	<0.0055	<0.0055	--	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055
TS1-016	2	P	24-Nov-97	<0.0053	<0.0053	<0.0053	<0.0053	--	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053

TABLE F-1
VOLATILE ORGANIC COMPOUNDS IN SOIL
NORTHEAST AREA OF THE POTRERO POWER PLANT SITE
SAN FRANCISCO, CALIFORNIA

Sample Location	Sample Depth (feet bgs)	Sample Type	Sample Date	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloroethene (total)	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone (MEK)	2-Chlorotoluene	2-Hexanone
B-POT-4	1.5	P	22-Feb-91	--	<0.0031	--	--	--	--	<0.0031	--	<0.0031	--	--	--	--
B-POT-4	5	P	22-Feb-91	--	<2.2	--	--	--	--	<2.2	--	<2.2	--	--	--	--
GB-155	2	P	16-Nov-17	<0.00082	<0.00082	<0.00082	--	<0.00082	<0.0016	<0.00082	<0.00082	<0.00082	<0.0041	<0.016	<0.00082	<0.016
GB-155A	5	P	02-Jan-18	<0.24	<0.24	<0.24	--	<0.24	<0.48	<0.24	<0.24	<0.24	<1.2	<4.8	<0.24	<4.8
GB-155A	9	P	04-Jan-18	<2.8	<2.8	<2.8	--	<2.8	<5.6	<2.8	<2.8	<2.8	<14	<56	<2.8	<56
GB-155B	5.5	P	23-Feb-18	<0.00087	<0.00087	<0.00087	--	<0.00087	<0.0017	<0.00087	<0.00087	<0.00087	<0.0043	<0.017	<0.00087	<0.017
GB-155C	3	P	23-Feb-18	<0.00078	<0.00078	<0.00078	--	<0.00078	<0.0016	<0.00078	<0.00078	<0.00078	<0.0039	<0.016	<0.00078	<0.016
GB-156	2	P	16-Nov-17	<0.00083	<0.00083	<0.00083	--	<0.00083	<0.0017	<0.00083	<0.00083	<0.00083	<0.0041	<0.017	<0.00083	<0.017
GB-156A	5	P	02-Jan-18	<0.00083	<0.00083	<0.00083	--	<0.00083	<0.0017	<0.00083	<0.00083	<0.00083	<0.0041	<0.017	<0.00083	<0.017
GB-156B	5.5	P	22-Feb-18	<0.00091	<0.00091	<0.00091	--	<0.00091	<0.0018	<0.00091	<0.00091	<0.00091	<0.0046	<0.018	<0.00091	<0.018
GB-167	5.5	P	12-Jan-18	--	--	--	--	--	--	--	--	--	--	--	--	--
GB-167	9	P	12-Jan-18	--	--	--	--	--	--	--	--	--	--	--	--	--
GB-171	1.5	P	10-Jan-18	<0.00083	<0.00083	<0.00083	--	<0.00083	<0.0017	<0.00083	<0.00083	<0.00083	<0.0041	<0.017	<0.00083	<0.017
GB-172	2	P	10-Jan-18	<0.00085	<0.00085	<0.00085	--	<0.00085	<0.0017	<0.00085	<0.00085	<0.00085	<0.0042	<0.017	<0.00085	<0.017
GB-172	6.5	P	11-Jan-18	<0.038	<0.038	<0.038	--	<0.038	<0.076	<0.038	<0.038	<0.038	<0.19	<0.76	<0.038	<0.76
GB-173	2	P	10-Jan-18	<0.00097	<0.00097	<0.00097	--	<0.00097	<0.0019	<0.00097	<0.00097	<0.00097	<0.0048	<0.019	<0.00097	<0.019
GB-173	8.5	P	11-Jan-18	<6.2	<6.2	<6.2	--	<6.2	<12	<6.2	<6.2	<6.2	<31	<120	<6.2	<120
GB-175	5	P	30-May-19	<0.0040	<0.0040	<0.0040	--	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.040	<0.0040	<0.040
GB-176	8.5	P	29-May-19	<0.38	<0.38	<0.38	--	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<3.8	<0.38	<3.8
GB-177	5	P	23-May-19	<0.0039	<0.0039	<0.0039	--	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.039	<0.0039	<0.039
GB-177	9	P	23-May-19	<0.0037	<0.0037	<0.0037	--	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.037	<0.0037	<0.037
MW-POT-12	3	P	26-Feb-91	--	<0.0011	--	--	--	--	<0.00078	--	<0.00078	--	--	--	--
MW-POT-12	5.5	P	26-Feb-91	--	<0.0058	--	--	--	--	<0.0041	--	<0.0041	--	--	--	--
PL4N	5	P	23-Apr-90	--	<0.10	--	--	--	--	<0.10	--	<0.10	--	--	--	--
PSV-07	5	P	22-May-19	<420	<420	<420	--	<420	<420	<420	<420	<420	<420	<4,200	<420	<4,200
PSV-07	10	P	22-May-19	<3.9	<3.9	<3.9	--	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<39	<3.9	<39
PSV-08	5	P	22-May-19	<0.0033	<0.0033	<0.0033	--	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	<0.033	<0.0033	<0.033
PSV-08	7	P	22-May-19	<230	<230	<230	--	<230	<230	<230	<230	<230	<230	<2,300	<230	<2,300
PZ-2	4.5	P	28-May-19	<8.6	<8.6	<8.6	--	<8.6	<8.6	<8.6	<8.6	<8.6	<8.6	<86	<8.6	<86
PZ-2	7.5	P	30-May-19	<21	<21	<21	--	<21	<21	<21	<21	<21	<21	<210	<21	<210
PZ-2	8	P	30-May-19	<0.31	<0.31	<0.31	--	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<3.1	<0.31	<3.1
SS1-5.5C	6	P	04-Apr-90	--	--	--	--	--	--	--	--	--	--	--	--	--
SS1-5E	5.5	P	04-Apr-90	--	--	--	--	--	--	--	--	--	--	--	--	--
SS1-5S	5.5	P	04-Apr-90	--	--	--	--	--	--	--	--	--	--	--	--	--
SS1-5W	5.5	P	04-Apr-90	--	--	--	--	--	--	--	--	--	--	--	--	--
SS1-7N	7.5	P	04-Apr-90	--	--	--	--	--	--	--	--	--	--	--	--	--
TB1-031	1	P	30-Jun-98	<0.0050	<0.010	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.0050	--	<0.0050	--
TB1-031	6	P	30-Jun-98	<0.0050	<0.010	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.0050	--	<0.0050	--
TB1-031	10	P	30-Jun-98	<0.0050	<0.010	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.0050	--	<0.0050	--
TB3-006	10	P	18-Nov-97	<6.1	<12	<6.1	--	<6.1	<6.1	<12	<6.1	<12	<6.1	--	<6.1	--
TS1-014	1	P	10-Dec-97	<0.0053	<0.011	<0.0053	--	<0.0053	<0.0053	<0.011	<0.0053	<0.011	<0.0053	--	<0.0053	--
TS1-014	1	FD	10-Dec-97	<0.0053	<0.011	<0.0053	--	<0.0053	<0.0053	<0.011	<0.0053	<0.011	<0.0053	--	<0.0053	--
TS1-015	1	P	10-Dec-97	<0.0055	<0.011	<0.0055	--	<0.0055	<0.0055	<0.011	<0.0055	<0.011	<0.0055	--	<0.0055	--
TS1-016	2	P	24-Nov-97	<0.0053	<0.011	<0.0053	--	<0.0053	<0.0053	<0.011	<0.0053	<0.011	<0.0053	--	<0.0053	--

TABLE F-1
VOLATILE ORGANIC COMPOUNDS IN SOIL
NORTHEAST AREA OF THE POTRERO POWER PLANT SITE
SAN FRANCISCO, CALIFORNIA

Sample Location	Sample Depth (feet bgs)	Sample Type	Sample Date	4-Chlorotoluene	4-Isopropyltoluene	4-Methyl-2-pentanone (MIBK)	Acetone	Benzene	Bromobenzene	Bromodichloromethane	Bromoform	Bromomethane	Butylbenzene	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene
B-POT-4	1.5	P	22-Feb-91	--	--	--	--	<0.0031	--	--	--	--	--	--	--	<0.0031
B-POT-4	5	P	22-Feb-91	--	--	--	--	**0.09**	--	--	--	--	--	--	--	<2.2
GB-155	2	P	16-Nov-17	<0.00082	<0.00082	<0.016	<0.041	**0.0031**	<0.00082	<0.00082	<0.0041	<0.016	<0.00082	<0.0082	<0.00082	<0.00082
GB-155A	5	P	02-Jan-18	<0.24	<0.24	<4.8	<12	<0.24	<0.24	<0.24	<1.2	<4.8	<0.24	<2.4	<0.24	<0.24
GB-155A	9	P	04-Jan-18	<2.8	<2.8	<56	<140	**19**	<2.8	<2.8	<14	<56	<2.8	<28	<2.8	<2.8
GB-155B	5.5	P	23-Feb-18	<0.00087	<0.00087	<0.017	<0.043	**0.012**	<0.00087	<0.00087	<0.0043	<0.017	<0.00087	<0.0087	<0.00087	<0.00087
GB-155C	3	P	23-Feb-18	<0.00078	<0.00078	<0.016	<0.039	<0.00078	<0.00078	<0.00078	<0.0039	<0.016	<0.00078	<0.0078	<0.00078	<0.00078
GB-156	2	P	16-Nov-17	<0.00083	<0.00083	<0.017	**0.049**	**0.0032**	<0.00083	<0.00083	<0.0041	<0.017	<0.00083	<0.0083	<0.00083	<0.00083
GB-156A	5	P	02-Jan-18	<0.00083	<0.00083	<0.017	<0.041	**0.0038**	<0.00083	<0.00083	<0.0041	<0.017	<0.00083	**0.0097**	<0.00083	<0.00083
GB-156B	5.5	P	22-Feb-18	<0.00091	<0.00091	<0.018	<0.046	<0.00091	<0.00091	<0.00091	<0.0046	<0.018	<0.00091	<0.0091	<0.00091	<0.00091
GB-167	5.5	P	12-Jan-18	--	--	--	--	<0.00078	--	--	--	--	--	--	--	--
GB-167	9	P	12-Jan-18	--	--	--	--	<0.97	--	--	--	--	--	--	--	--
GB-171	1.5	P	10-Jan-18	<0.00083	<0.00083	<0.017	<0.041	<0.00083	<0.00083	<0.00083	<0.0041	<0.017	<0.00083	<0.0083	<0.00083	<0.00083
GB-172	2	P	10-Jan-18	<0.00085	<0.00085	<0.017	<0.042	**0.056**	<0.00085	<0.00085	<0.0042	<0.017	<0.00085	<0.0085	<0.00085	<0.00085
GB-172	6.5	P	11-Jan-18	<0.038	<0.038	<0.76	<1.9	<0.038	<0.038	<0.038	<0.19	<0.76	<0.038	<0.38	<0.038	<0.038
GB-173	2	P	10-Jan-18	<0.00097	<0.00097	<0.019	<0.048	**0.017**	<0.00097	<0.00097	<0.0048	<0.019	<0.00097	<0.0097	<0.00097	<0.00097
GB-173	8.5	P	11-Jan-18	<6.2	<6.2	<120	<310	**1,400**	<6.2	<6.2	<31	<120	<6.2	<62	<6.2	<6.2
GB-175	5	P	30-May-19	<0.0040	<0.0040	<0.040	**0.13**	<0.0040	<0.0040	<0.0040	<0.0040	<0.0079	<0.0040	<0.0040	<0.0040	<0.0040
GB-176	8.5	P	29-May-19	<0.38	<0.38	<3.8	<3.8	<0.38	<0.38	<0.38	<0.38	<0.75	<0.38	<0.38	<0.38	<0.38
GB-177	5	P	23-May-19	<0.0039	<0.0039	<0.039	**0.11**	<0.0039	<0.0039	<0.0039	<0.0039	<0.0078	<0.0039	**0.0062**	<0.0039	<0.0039
GB-177	9	P	23-May-19	<0.0037	<0.0037	<0.037	**0.039**	<0.0037	<0.0037	<0.0037	<0.0037	<0.0074	<0.0037	**0.0098**	<0.0037	<0.0037
MW-POT-12	3	P	26-Feb-91	--	--	--	--	<0.00033	--	--	--	--	--	--	--	<0.00033
MW-POT-12	5.5	P	26-Feb-91	--	--	--	--	<0.0017	--	--	--	--	--	--	--	<0.0017
PL4N	5	P	23-Apr-90	--	--	--	--	**0.0061**	--	--	--	--	--	--	--	--
PSV-07	5	P	22-May-19	<420	<420	<4,200	<4,200	<420	<420	<420	<420	<850	<420	<420	<420	<420
PSV-07	10	P	22-May-19	<3.9	<3.9	<39	<39	<3.9	<3.9	<3.9	<3.9	<7.7	**4**	<3.9	<3.9	<3.9
PSV-08	5	P	22-May-19	<0.0033	<0.0033	<0.033	**0.041**	<0.0033	<0.0033	<0.0033	<0.0033	<0.0066	<0.0033	<0.0033	<0.0033	<0.0033
PSV-08	7	P	22-May-19	<230	<230	<2,300	<2,300	<230	<230	<230	<230	<470	<230	<230	<230	<230
PZ-2	4.5	P	28-May-19	<8.6	<8.6	<86	<86	<8.6	<8.6	<8.6	<8.6	<17	<8.6	<8.6	<8.6	<8.6
PZ-2	7.5	P	30-May-19	<21	<21	<210	<210	<21	<21	<21	<21	<43	<21	<21	<21	<21
PZ-2	8	P	30-May-19	<0.31	<0.31	<3.1	<3.1	<0.31	<0.31	<0.31	<0.31	<0.61	<0.31	<0.31	<0.31	<0.31
SS1-5.5C	6	P	04-Apr-90	--	--	--	--	<0.10	--	--	--	--	--	--	--	--
SS1-5E	5.5	P	04-Apr-90	--	--	--	--	<0.10	--	--	--	--	--	--	--	--
SS1-5S	5.5	P	04-Apr-90	--	--	--	--	<0.10	--	--	--	--	--	--	--	--
SS1-5W	5.5	P	04-Apr-90	--	--	--	--	<0.10	--	--	--	--	--	--	--	--
SS1-7N	7.5	P	04-Apr-90	--	--	--	--	<0.10	--	--	--	--	--	--	--	--
TB1-031	1	P	30-Jun-98	<0.0050	<0.0050	--	--	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	--	<0.0050	<0.0050
TB1-031	6	P	30-Jun-98	<0.0050	<0.0050	--	--	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	--	<0.0050	<0.0050
TB1-031	10	P	30-Jun-98	<0.0050	<0.0050	--	--	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	--	<0.0050	<0.0050
TB3-006	10	P	18-Nov-97	<6.1	<6.1	--	--	<6.1	<6.1	<6.1	<6.1	<12	<6.1	--	<6.1	<6.1
TS1-014	1	P	10-Dec-97	<0.0053	<0.0053	--	--	<0.0053	<0.0053	<0.0053	<0.0053	<0.011	<0.0053	--	<0.0053	<0.0053
TS1-014	1	FD	10-Dec-97	<0.0053	<0.0053	--	--	<0.0053	<0.0053	<0.0053	<0.0053	<0.011	<0.0053	--	<0.0053	<0.0053
TS1-015	1	P	10-Dec-97	<0.0055	<0.0055	--	--	<0.0055	<0.0055	<0.0055	<0.0055	<0.011	<0.0055	--	<0.0055	<0.0055
TS1-016	2	P	24-Nov-97	<0.0053	<0.0053	--	--	<0.0053	<0.0053	<0.0053	<0.0053	<0.011	<0.0053	--	<0.0053	<0.0053

TABLE F-1
VOLATILE ORGANIC COMPOUNDS IN SOIL
NORTHEAST AREA OF THE POTRERO POWER PLANT SITE
SAN FRANCISCO, CALIFORNIA

Sample Location	Sample Depth (feet bgs)	Sample Type	Sample Date	Chlorobromomethane	Chlorodibromomethane	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Cyclohexanone	Dibromomethane	Dichlorodifluoromethane (Freon 12)	Ethanol	Ethyl tert-Butyl Ether (ETBE)	Ethylbenzene
B-POT-4	1.5	P	22-Feb-91	--	--	--	--	--	--	--	--	--	--	--	--	<0.0031
B-POT-4	5	P	22-Feb-91	--	--	--	--	--	--	--	--	--	--	--	--	**0.004**
GB-155	2	P	16-Nov-17	<0.0016	<0.0016	<0.0016	<0.00082	<0.016	<0.00082	<0.00082	<0.041	<0.00082	<0.0016	<0.41	<0.00082	<0.00082
GB-155A	5	P	02-Jan-18	<0.48	<0.48	<0.48	<0.24	<4.8	<0.24	<0.24	<12	<0.24	<0.48	**360**	<0.24	<0.24
GB-155A	9	P	04-Jan-18	<5.6	<5.6	<5.6	<2.8	<56	<2.8	<2.8	<140	<2.8	<5.6	<1,400	<2.8	**3.5**
GB-155B	5.5	P	23-Feb-18	<0.0017	<0.0017	<0.0017	<0.00087	<0.017	<0.00087	<0.00087	<0.043	<0.00087	<0.0017	<0.43	<0.00087	<0.00087
GB-155C	3	P	23-Feb-18	<0.0016	<0.0016	<0.0016	<0.00078	<0.016	<0.00078	<0.00078	<0.039	<0.00078	<0.0016	<0.39	<0.00078	<0.00078
GB-156	2	P	16-Nov-17	<0.0017	<0.0017	<0.0017	<0.00083	<0.017	<0.00083	<0.00083	<0.041	<0.00083	<0.0017	<0.41	<0.00083	<0.00083
GB-156A	5	P	02-Jan-18	<0.0017	<0.0017	<0.0017	<0.00083	<0.017	<0.00083	<0.00083	<0.041	<0.00083	<0.0017	<0.41	<0.00083	<0.00083
GB-156B	5.5	P	22-Feb-18	<0.0018	<0.0018	<0.0018	<0.00091	<0.018	<0.00091	<0.00091	<0.046	<0.00091	<0.0018	<0.46	<0.00091	<0.00091
GB-167	5.5	P	12-Jan-18	--	--	--	--	--	--	--	--	--	--	--	--	<0.00078
GB-167	9	P	12-Jan-18	--	--	--	--	--	--	--	--	--	--	--	--	**1.4**
GB-171	1.5	P	10-Jan-18	<0.0017	<0.0017	<0.0017	<0.00083	<0.017	<0.00083	<0.00083	<0.041	<0.00083	<0.0017	<0.41	<0.00083	<0.00083
GB-172	2	P	10-Jan-18	<0.0017	<0.0017	<0.0017	<0.00085	<0.017	<0.00085	<0.00085	<0.042	<0.00085	<0.0017	<0.42	<0.00085	<0.00085
GB-172	6.5	P	11-Jan-18	<0.076	<0.076	<0.076	<0.038	<0.76	<0.038	<0.038	<1.9	<0.038	<0.076	<19	<0.038	<0.038
GB-173	2	P	10-Jan-18	<0.0019	<0.0019	<0.0019	<0.00097	<0.019	<0.00097	<0.00097	<0.048	<0.00097	<0.0019	<0.48	<0.00097	<0.00097
GB-173	8.5	P	11-Jan-18	<12	<12	<12	<6.2	<120	<6.2	<6.2	<310	<6.2	<12	<3,100	<6.2	**240**
GB-175	5	P	30-May-19	<0.016	<0.0040	<0.0079	<0.0040	<0.0079	<0.0040	<0.0040	--	<0.0079	<0.0079	--	--	<0.0040
GB-176	8.5	P	29-May-19	<1.5	<0.38	<0.75	<0.38	<0.75	<0.38	<0.38	--	<0.75	<0.75	--	--	<0.38
GB-177	5	P	23-May-19	<0.016	<0.0039	<0.0078	<0.0039	<0.0078	<0.0039	<0.0039	--	<0.0078	<0.0078	--	--	<0.0039
GB-177	9	P	23-May-19	<0.015	<0.0037	<0.0074	<0.0037	<0.0074	<0.0037	<0.0037	--	<0.0074	<0.0074	--	--	<0.0037
MW-POT-12	3	P	26-Feb-91	--	--	--	--	--	--	--	--	--	--	--	--	<0.00033
MW-POT-12	5.5	P	26-Feb-91	--	--	--	--	--	--	--	--	--	--	--	--	<0.0017
PL4N	5	P	23-Apr-90	--	--	--	--	--	--	--	--	--	--	--	--	<0.0050
PSV-07	5	P	22-May-19	<1,700	<420	<850	<420	<850	<420	<420	--	<850	<850	--	--	<420
PSV-07	10	P	22-May-19	<15	<3.9	<7.7	<3.9	<7.7	<3.9	<3.9	--	<7.7	<7.7	--	--	<3.9
PSV-08	5	P	22-May-19	<0.013	<0.0033	<0.0066	<0.0033	<0.0066	<0.0033	<0.0033	--	<0.0066	<0.0066	--	--	<0.0033
PSV-08	7	P	22-May-19	<930	<230	<470	<230	<470	<230	<230	--	<470	<470	--	--	<230
PZ-2	4.5	P	28-May-19	<34	<8.6	<17	<8.6	<17	<8.6	<8.6	--	<17	<17	--	--	<8.6
PZ-2	7.5	P	30-May-19	<85	<21	<43	<21	<43	<21	<21	--	<43	<43	--	--	<21
PZ-2	8	P	30-May-19	<1.2	<0.31	<0.61	<0.31	<0.61	<0.31	<0.31	--	<0.61	<0.61	--	--	<0.31
SS1-5.5C	6	P	04-Apr-90	--	--	--	--	--	--	--	--	--	--	--	--	<0.10
SS1-5E	5.5	P	04-Apr-90	--	--	--	--	--	--	--	--	--	--	--	--	<0.10
SS1-5S	5.5	P	04-Apr-90	--	--	--	--	--	--	--	--	--	--	--	--	<0.10
SS1-5W	5.5	P	04-Apr-90	--	--	--	--	--	--	--	--	--	--	--	--	<0.10
SS1-7N	7.5	P	04-Apr-90	--	--	--	--	--	--	--	--	--	--	--	--	<0.10
TB1-031	1	P	30-Jun-98	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.0050	--	--	<0.0050	<0.010	--	--	<0.0050
TB1-031	6	P	30-Jun-98	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.0050	--	--	<0.0050	<0.010	--	--	<0.0050
TB1-031	10	P	30-Jun-98	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.0050	--	--	<0.0050	<0.010	--	--	<0.0050
TB3-006	10	P	18-Nov-97	<6.1	<6.1	<12	<6.1	<12	<6.1	--	--	<6.1	<12	--	--	**12**
TS1-014	1	P	10-Dec-97	<0.0053	<0.0053	<0.011	<0.0053	<0.011	<0.0053	--	--	<0.0053	<0.011	--	--	<0.0053
TS1-014	1	FD	10-Dec-97	<0.0053	<0.0053	<0.011	<0.0053	<0.011	<0.0053	--	--	<0.0053	<0.011	--	--	<0.0053
TS1-015	1	P	10-Dec-97	<0.0055	<0.0055	<0.011	<0.0055	<0.011	<0.0055	--	--	<0.0055	<0.011	--	--	<0.0055
TS1-016	2	P	24-Nov-97	<0.0053	<0.0053	<0.011	<0.0053	<0.011	<0.0053	--	--	<0.0053	<0.011	--	--	<0.0053

TABLE F-1
VOLATILE ORGANIC COMPOUNDS IN SOIL
NORTHEAST AREA OF THE POTRERO POWER PLANT SITE
SAN FRANCISCO, CALIFORNIA

Sample Location	Sample Depth (feet bgs)	Sample Type	Sample Date	Hexachlorobutadiene	Isopropyl ether	Isopropylbenzene (Cumene)	Methyl tert-butyl ether (MTBE)	Methylene Chloride	Naphthalene	Propylbenzene	sec-Butylbenzene	Styrene	t-Amyl Alcohol	Tert-Amyl Methyl Ether (TAME)	tert-Butyl Alcohol (TBA)	tert-Butylbenzene
B-POT-4	1.5	P	22-Feb-91	--	--	--	--	--	--	--	--	--	--	--	--	--
B-POT-4	5	P	22-Feb-91	--	--	--	--	--	--	--	--	--	--	--	--	--
GB-155	2	P	16-Nov-17	--	<0.00082	<0.00082	<0.0016	<0.0082	<0.0082	<0.0016	<0.00082	<0.00082	<0.041	<0.00082	<0.016	<0.00082
GB-155A	5	P	02-Jan-18	--	<0.24	<0.24	<0.48	<2.4	**18**	<0.48	<0.24	<0.24	<12	<0.24	<4.8	<0.24
GB-155A	9	P	04-Jan-18	--	<2.8	<2.8	<5.6	<28	**320**	<5.6	<2.8	<2.8	<140	<2.8	<56	<2.8
GB-155B	5.5	P	23-Feb-18	--	<0.00087	<0.00087	<0.0017	<0.0087	**0.079**	<0.0017	<0.00087	<0.00087	<0.043	<0.00087	<0.017	<0.00087
GB-155C	3	P	23-Feb-18	--	<0.00078	<0.00078	<0.0016	<0.0078	<0.0078	<0.0016	<0.00078	<0.00078	<0.039	<0.00078	<0.016	<0.00078
GB-156	2	P	16-Nov-17	--	<0.00083	<0.00083	<0.0017	<0.0083	<0.0083	<0.0017	<0.00083	<0.00083	<0.041	<0.00083	<0.017	<0.00083
GB-156A	5	P	02-Jan-18	--	<0.00083	<0.00083	<0.0017	<0.0083	<0.0083	<0.0017	<0.00083	<0.00083	<0.041	<0.00083	<0.017	<0.00083
GB-156B	5.5	P	22-Feb-18	--	<0.00091	<0.00091	<0.0018	<0.0091	<0.0091	<0.0018	<0.00091	<0.00091	<0.046	<0.00091	<0.018	<0.00091
GB-167	5.5	P	12-Jan-18	--	--	--	--	--	--	--	--	--	--	--	--	--
GB-167	9	P	12-Jan-18	--	--	--	--	--	--	--	--	--	--	--	--	--
GB-171	1.5	P	10-Jan-18	--	<0.00083	<0.00083	<0.0017	<0.0083	<0.0083	<0.0017	<0.00083	<0.00083	<0.041	<0.00083	<0.017	<0.00083
GB-172	2	P	10-Jan-18	--	<0.00085	<0.00085	<0.0017	<0.0085	<0.0085	<0.0017	<0.00085	<0.00085	<0.042	<0.00085	<0.017	<0.00085
GB-172	6.5	P	11-Jan-18	--	<0.038	<0.038	<0.076	<0.38	**0.8**	<0.076	<0.038	<0.038	<1.9	<0.038	<0.76	<0.038
GB-173	2	P	10-Jan-18	--	<0.00097	<0.00097	<0.0019	<0.0097	<0.0097	<0.0019	<0.00097	<0.00097	<0.048	<0.00097	<0.019	<0.00097
GB-173	8.5	P	11-Jan-18	--	<6.2	<6.2	<12	<62	**39,000**	<12	<6.2	<6.2	<310	<6.2	<120	<6.2
GB-175	5	P	30-May-19	<0.0040	--	<0.0040	<0.0040	<0.0079	<0.0079	<0.0040	<0.0040	<0.0040	--	--	--	<0.0040
GB-176	8.5	P	29-May-19	<0.38	--	<0.38	<0.38	<0.75	**2.7**	<0.38	<0.38	<0.38	--	--	--	<0.38
GB-177	5	P	23-May-19	<0.0039	--	<0.0039	<0.0039	<0.0078	<0.0078	<0.0039	<0.0039	<0.0039	--	--	--	<0.0039
GB-177	9	P	23-May-19	<0.0037	--	<0.0037	<0.0037	<0.0074	<0.0074	<0.0037	<0.0037	<0.0037	--	--	--	<0.0037
MW-POT-12	3	P	26-Feb-91	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-POT-12	5.5	P	26-Feb-91	--	--	--	--	--	--	--	--	--	--	--	--	--
PL4N	5	P	23-Apr-90	<0.10	--	--	--	--	--	--	--	--	--	--	--	--
PSV-07	5	P	22-May-19	<420	--	<420	<420	<850	**9,700**	<420	<420	<420	--	--	--	<420
PSV-07	10	P	22-May-19	<3.9	--	<3.9	<3.9	<7.7	<7.7	<3.9	<3.9	<3.9	--	--	--	<3.9
PSV-08	5	P	22-May-19	<0.0033	--	<0.0033	<0.0033	<0.0066	<0.0066	<0.0033	<0.0033	<0.0033	--	--	--	<0.0033
PSV-08	7	P	22-May-19	<230	--	<230	<230	<470	**2,300**	<230	<230	<230	--	--	--	<230
PZ-2	4.5	P	28-May-19	<8.6	--	<8.6	<8.6	<17	**330**	<8.6	<8.6	<8.6	--	--	--	<8.6
PZ-2	7.5	P	30-May-19	<21	--	<21	<21	<43	**320**	<21	<21	<21	--	--	--	<21
PZ-2	8	P	30-May-19	<0.31	--	<0.31	<0.31	<0.61	**1.2**	<0.31	<0.31	<0.31	--	--	--	<0.31
SS1-5.5C	6	P	04-Apr-90	--	--	--	--	--	--	--	--	--	--	--	--	--
SS1-5E	5.5	P	04-Apr-90	--	--	--	--	--	--	--	--	--	--	--	--	--
SS1-5S	5.5	P	04-Apr-90	--	--	--	--	--	--	--	--	--	--	--	--	--
SS1-5W	5.5	P	04-Apr-90	--	--	--	--	--	--	--	--	--	--	--	--	--
SS1-7N	7.5	P	04-Apr-90	--	--	--	--	--	--	--	--	--	--	--	--	--
TB1-031	1	P	30-Jun-98	<0.0050	--	<0.0050	--	<0.010	--	<0.0050	<0.0050	<0.0050	--	--	--	<0.0050
TB1-031	6	P	30-Jun-98	<0.0050	--	<0.0050	--	<0.010	--	<0.0050	<0.0050	<0.0050	--	--	--	<0.0050
TB1-031	10	P	30-Jun-98	<0.0050	--	<0.0050	--	<0.010	--	<0.0050	<0.0050	<0.0050	--	--	--	<0.0050
TB3-006	10	P	18-Nov-97	<6.1	--	<6.1	--	<12	--	<6.1	<6.1	<6.1	--	--	--	<6.1
TS1-014	1	P	10-Dec-97	<0.0053	--	<0.0053	--	<0.011	--	<0.0053	<0.0053	<0.0053	--	--	--	<0.0053
TS1-014	1	FD	10-Dec-97	<0.0053	--	<0.0053	--	<0.011	--	<0.0053	<0.0053	<0.0053	--	--	--	<0.0053
TS1-015	1	P	10-Dec-97	<0.0055	--	<0.0055	--	<0.011	--	<0.0055	<0.0055	<0.0055	--	--	--	<0.0055
TS1-016	2	P	24-Nov-97	<0.0053	--	<0.0053	--	<0.011	--	<0.0053	<0.0053	<0.0053	--	--	--	<0.0053

TABLE F-1
VOLATILE ORGANIC COMPOUNDS IN SOIL
NORTHEAST AREA OF THE POTRERO POWER PLANT SITE
SAN FRANCISCO, CALIFORNIA

Sample Location	Sample Depth (feet bgs)	Sample Type	Sample Date	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane (Freon 11)	Vinyl Acetate	Vinyl Chloride	Xylenes [a]
B-POT-4	1.5	P	22-Feb-91	--	<0.0031	--	--	--	--	--	--	<0.0031
B-POT-4	5	P	22-Feb-91	--	**0.009**	--	--	--	--	--	--	**0.0057**
GB-155	2	P	16-Nov-17	<0.00082	<0.00082	<0.00082	<0.0016	<0.0016	<0.0082	<0.0082	<0.00082	<0.0016
GB-155A	5	P	02-Jan-18	<0.24	<0.24	<0.24	<0.48	<0.48	<2.4	<2.4	<0.24	<0.48
GB-155A	9	P	04-Jan-18	<2.8	<2.8	<2.8	<5.6	<5.6	<28	<28	<2.8	<5.6
GB-155B	5.5	P	23-Feb-18	<0.00087	<0.00087	<0.00087	<0.0017	<0.0017	<0.0087	<0.0087	<0.00087	<0.0017
GB-155C	3	P	23-Feb-18	<0.00078	<0.00078	<0.00078	<0.0016	<0.0016	<0.0078	<0.0078	<0.00078	<0.0016
GB-156	2	P	16-Nov-17	<0.00083	<0.00083	<0.00083	<0.0017	<0.0017	<0.0083	<0.0083	<0.00083	<0.0017
GB-156A	5	P	02-Jan-18	<0.00083	<0.00083	<0.00083	<0.0017	<0.0017	<0.0083	<0.0083	<0.00083	<0.0017
GB-156B	5.5	P	22-Feb-18	<0.00091	<0.00091	<0.00091	<0.0018	<0.0018	<0.0091	<0.0091	<0.00091	<0.0018
GB-167	5.5	P	12-Jan-18	--	<0.00078	--	--	--	--	--	--	**0.0035**
GB-167	9	P	12-Jan-18	--	<0.97	--	--	--	--	--	--	**3.8**
GB-171	1.5	P	10-Jan-18	<0.00083	<0.00083	<0.00083	<0.0017	<0.0017	<0.0083	<0.0083	<0.00083	<0.0017
GB-172	2	P	10-Jan-18	<0.00085	<0.00085	<0.00085	<0.0017	<0.0017	<0.0085	<0.0085	<0.00085	<0.0017
GB-172	6.5	P	11-Jan-18	<0.038	<0.038	<0.038	<0.076	<0.076	<0.38	<0.38	<0.038	<0.076
GB-173	2	P	10-Jan-18	<0.00097	<0.00097	<0.00097	<0.0019	<0.0019	<0.0097	<0.0097	<0.00097	<0.0019
GB-173	8.5	P	11-Jan-18	<6.2	**110**	<6.2	<12	<12	<62	<62	<6.2	<12
GB-175	5	P	30-May-19	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.040	<0.0040	<0.0079
GB-176	8.5	P	29-May-19	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<1.5	<0.38	<0.38
GB-177	5	P	23-May-19	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.039	<0.0039	<0.0078
GB-177	9	P	23-May-19	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.037	<0.0037	<0.0074
MW-POT-12	3	P	26-Feb-91	--	**0.00036**	--	--	--	--	--	--	<0.0011
MW-POT-12	5.5	P	26-Feb-91	--	<0.0017	--	--	--	--	--	--	<0.0058
PL4N	5	P	23-Apr-90	--	<0.0050	--	--	--	--	--	--	<0.0050
PSV-07	5	P	22-May-19	<420	<420	<420	<420	<420	<420	<1,700	<420	<420
PSV-07	10	P	22-May-19	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<15	<3.9	<3.9
PSV-08	5	P	22-May-19	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	<0.013	<0.0033	<0.0033
PSV-08	7	P	22-May-19	<230	<230	<230	<230	<230	<230	<930	<230	<230
PZ-2	4.5	P	28-May-19	<8.6	<8.6	<8.6	<8.6	<8.6	<8.6	<34	<8.6	<8.6
PZ-2	7.5	P	30-May-19	<21	<21	<21	<21	<21	<21	<85	<21	<21
PZ-2	8	P	30-May-19	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<1.2	<0.31	<0.31
SS1-5.5C	6	P	04-Apr-90	--	<0.10	--	--	--	--	--	--	<0.10
SS1-5E	5.5	P	04-Apr-90	--	<0.10	--	--	--	--	--	--	<0.10
SS1-5S	5.5	P	04-Apr-90	--	<0.10	--	--	--	--	--	--	<0.10
SS1-5W	5.5	P	04-Apr-90	--	<0.10	--	--	--	--	--	--	<0.10
SS1-7N	7.5	P	04-Apr-90	--	<0.10	--	--	--	--	--	--	<0.10
TB1-031	1	P	30-Jun-98	<0.0050	<0.0050	<0.0050	--	<0.0050	<0.0050	--	<0.0030	<0.0050
TB1-031	6	P	30-Jun-98	<0.0050	<0.0050	<0.0050	--	<0.0050	<0.0050	--	<0.0030	<0.0050
TB1-031	10	P	30-Jun-98	<0.0050	<0.0050	<0.0050	--	<0.0050	<0.0050	--	<0.0030	<0.0050
TB3-006	10	P	18-Nov-97	<6.1	<6.1	<6.1	--	<6.1	<6.1	--	<2.4	<6.1
TS1-014	1	P	10-Dec-97	<0.0053	<0.0053	<0.0053	--	<0.0053	<0.0053	--	<0.0021	<0.0053
TS1-014	1	FD	10-Dec-97	<0.0053	<0.0053	<0.0053	--	<0.0053	<0.0053	--	<0.0021	<0.0053
TS1-015	1	P	10-Dec-97	<0.0055	<0.0055	<0.0055	--	<0.0055	<0.0055	--	<0.0022	<0.0055
TS1-016	2	P	24-Nov-97	<0.0053	<0.0053	<0.0053	--	<0.0053	<0.0053	--	<0.0021	<0.0053

TABLE F-1
VOLATILE ORGANIC COMPOUNDS IN SOIL
NORTHEAST AREA OF THE POTRERO POWER PLANT SITE
SAN FRANCISCO, CALIFORNIA

ABBREVIATIONS:
-- = Not analyzed for
< = Analyte was not detected at the given detection limit.
bgs = Below ground surface
FD = Field duplicate
P = Primary sample

NOTES:
All analytical results are dry weight results in milligrams per kilogram (mg/kg).
Detected results are presented in **bold**.
[a] Represents the sum of results for m,p-xylenes and o-xylene. If only one of the two analytes was detected, the reported result for that analyte was used and is presented. If neither analyte was detected, the higher limit of detection for the two analytes was used and is presented.

TABLE F-2
SEMI-VOLATILE ORGANIC COMPOUNDS IN SOIL
NORTHEAST AREA OF THE POTRERO POWER PLANT SITE
SAN FRANCISCO, CALIFORNIA

Sample Location	Sample Depth (feet bgs)	Sample Type	Sample Date	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dichlorophenol	2,6-Dinitrotoluene	2-Chloronaphthalene	2-Chlorophenol
MW-POT-12	3	P	26-Feb-91	--	--	--	--	--	--	--	--	--	--
MW-POT-12	5.5	P	26-Feb-91	--	--	--	--	--	--	--	--	--	--
PL4N	5	P	23-Apr-90	<0.50	<0.10	<0.10	<0.10	<0.50	<0.10	--	<0.10	<0.10	<0.10
SS1-5.5C	6	P	04-Apr-90	--	--	--	<0.10	--	--	--	--	--	--
SS1-5E	5.5	P	04-Apr-90	--	--	--	<0.10	--	--	--	--	--	--
SS1-5S	5.5	P	04-Apr-90	--	--	--	<0.10	--	--	--	--	--	--
SS1-5W	5.5	P	04-Apr-90	--	--	--	<0.10	--	--	--	--	--	--
SS1-7N	7.5	P	04-Apr-90	--	--	--	<0.10	--	--	--	--	--	--
TB1-004	1	P	15-Oct-97	--	<0.72	<0.72	<0.72	<3.5	--	<0.72	--	--	<0.72
TB1-004	6	P	15-Oct-97	--	<0.40	<0.40	<0.40	<1.9	--	<0.40	--	--	<0.40
TB3-006	10	P	18-Nov-97	--	<12	<12	<12	<58	--	<12	--	--	<12

TABLE F-2
SEMI-VOLATILE ORGANIC COMPOUNDS IN SOIL
NORTHEAST AREA OF THE POTRERO POWER PLANT SITE
SAN FRANCISCO, CALIFORNIA

Sample Location	Sample Depth (feet bgs)	Sample Type	Sample Date	2-Methyl-4,6-dinitrophenol	2-Methylphenol (o-cresol)	2-Nitroaniline	2-Nitrophenol	3,3-Dichlorobenzidine	3-Methylphenol	3-Nitroaniline	4-Bromophenyl-phenyl Ether	4-Chloro-3-methylphenol	4-Chloroaniline
MW-POT-12	3	P	26-Feb-91	--	--	--	--	--	--	--	--	--	--
MW-POT-12	5.5	P	26-Feb-91	--	--	--	--	--	--	--	--	--	--
PL4N	5	P	23-Apr-90	<0.50	<0.10	<0.50	<0.10	<0.50	--	<0.50	<0.10	<0.10	<0.10
SS1-5.5C	6	P	04-Apr-90	--	<0.10	--	--	--	--	--	--	--	--
SS1-5E	5.5	P	04-Apr-90	--	<0.10	--	--	--	--	--	--	--	--
SS1-5S	5.5	P	04-Apr-90	--	<0.10	--	--	--	--	--	--	--	--
SS1-5W	5.5	P	04-Apr-90	--	<0.10	--	--	--	--	--	--	--	--
SS1-7N	7.5	P	04-Apr-90	--	<0.10	--	--	--	--	--	--	--	--
TB1-004	1	P	15-Oct-97	<3.5	<0.72	--	<0.72	--	<0.72	--	--	<1.4	--
TB1-004	6	P	15-Oct-97	<1.9	<0.40	--	<0.40	--	<0.40	--	--	<0.78	--
TB3-006	10	P	18-Nov-97	<58	<12	--	<12	--	<12	--	--	<24	--

TABLE F-2
SEMI-VOLATILE ORGANIC COMPOUNDS IN SOIL
NORTHEAST AREA OF THE POTRERO POWER PLANT SITE
SAN FRANCISCO, CALIFORNIA

Sample Location	Sample Depth (feet bgs)	Sample Type	Sample Date	4-Chlorophenyl-phenyl Ether	4-Nitroaniline	4-Nitrophenol	Aniline	Benyzl alcohol	Benzidine	Benzoic acid	Benzyl alcohol	Bis(2-Chloroethoxy) methane	Bis(2-Chloroethyl)ether
MW-POT-12	3	P	26-Feb-91	--	--	--	--	--	--	--	--	--	--
MW-POT-12	5.5	P	26-Feb-91	--	--	--	--	--	--	--	--	--	--
PL4N	5	P	23-Apr-90	<0.10	<0.50	<0.50	<0.10	<0.10	<2.5	<0.50	<0.10	<0.10	<0.10
SS1-5.5C	6	P	04-Apr-90	--	--	--	--	--	--	--	--	--	--
SS1-5E	5.5	P	04-Apr-90	--	--	--	--	--	--	--	--	--	--
SS1-5S	5.5	P	04-Apr-90	--	--	--	--	--	--	--	--	--	--
SS1-5W	5.5	P	04-Apr-90	--	--	--	--	--	--	--	--	--	--
SS1-7N	7.5	P	04-Apr-90	--	--	--	--	--	--	--	--	--	--
TB1-004	1	P	15-Oct-97	--	--	<3.5	--	--	--	--	--	--	--
TB1-004	6	P	15-Oct-97	--	--	<1.9	--	--	--	--	--	--	--
TB3-006	10	P	18-Nov-97	--	--	<58	--	--	--	--	--	--	--

TABLE F-2
SEMI-VOLATILE ORGANIC COMPOUNDS IN SOIL
NORTHEAST AREA OF THE POTRERO POWER PLANT SITE
SAN FRANCISCO, CALIFORNIA

Sample Location	Sample Depth (feet bgs)	Sample Type	Sample Date	Bis(2-chloroisopropyl)ether	Bis(2-ethylhexyl)phthalate	Butyl benzyl phthalate	Dibenzofuran	Dibutyl phthalate	Diethyl phthalate	Dimethylphthalate	Di-n-octylphthalate	Diphenylnitrosoamine	Hexachlorobenzene
MW-POT-12	3	P	26-Feb-91	--	--	--	--	--	--	--	--	--	--
MW-POT-12	5.5	P	26-Feb-91	--	--	--	--	--	--	--	--	--	--
PL4N	5	P	23-Apr-90	<0.10	<0.50	<0.10	<0.10	<0.50	<0.10	<0.10	<0.10	<0.10	<0.10
SS1-5.5C	6	P	04-Apr-90	--	--	--	--	--	--	--	--	--	--
SS1-5E	5.5	P	04-Apr-90	--	--	--	--	--	--	--	--	--	--
SS1-5S	5.5	P	04-Apr-90	--	--	--	--	--	--	--	--	--	--
SS1-5W	5.5	P	04-Apr-90	--	--	--	--	--	--	--	--	--	--
SS1-7N	7.5	P	04-Apr-90	--	--	--	--	--	--	--	--	--	--
TB1-004	1	P	15-Oct-97	--	--	--	--	--	--	--	--	--	--
TB1-004	6	P	15-Oct-97	--	--	--	--	--	--	--	--	--	--
TB3-006	10	P	18-Nov-97	--	--	--	--	--	--	--	--	--	--

TABLE F-2
SEMI-VOLATILE ORGANIC COMPOUNDS IN SOIL
NORTHEAST AREA OF THE POTRERO POWER PLANT SITE
SAN FRANCISCO, CALIFORNIA

Sample Location	Sample Depth (feet bgs)	Sample Type	Sample Date	Hexachlorocyclopentadiene	Hexachloroethane	Isophorone	Nitrobenzene	N-Nitroso-di-n-propylamine	Pentachlorophenol	Phenol
MW-POT-12	3	P	26-Feb-91	--	--	--	--	--	--	<0.50
MW-POT-12	5.5	P	26-Feb-91	--	--	--	--	--	--	0.88
PL4N	5	P	23-Apr-90	<0.10	<0.10	<0.10	<0.10	<0.10	<0.50	<0.10
SS1-5.5C	6	P	04-Apr-90	--	--	--	--	--	--	<0.10
SS1-5E	5.5	P	04-Apr-90	--	--	--	--	--	--	<0.10
SS1-5S	5.5	P	04-Apr-90	--	--	--	--	--	--	<0.10
SS1-5W	5.5	P	04-Apr-90	--	--	--	--	--	--	<0.10
SS1-7N	7.5	P	04-Apr-90	--	--	--	--	--	--	<0.10
TB1-004	1	P	15-Oct-97	--	--	--	--	--	<3.5	<0.72
TB1-004	6	P	15-Oct-97	--	--	--	--	--	<1.9	<0.40
TB3-006	10	P	18-Nov-97	--	--	--	--	--	<58	<12

TABLE F-2
SEMI-VOLATILE ORGANIC COMPOUNDS IN SOIL
NORTHEAST AREA OF THE POTRERO POWER PLANT SITE
SAN FRANCISCO, CALIFORNIA

ABBREVIATIONS:

-- = Not analyzed for
< = Analyte was not detected at the given detection limit.
bgs = Below ground surface
P = Primary sample

NOTES:

All analytical results are dry weight results in milligrams per kilogram (mg/kg).
Detected results are presented in **bold**.

TABLE F-3
TOTAL PETROLEUM HYDROCARBONS IN SOIL
NORTHEAST AREA OF THE POTRERO POWER PLANT SITE
SAN FRANCISCO, CALIFORNIA

Sample Location	Sample Depth (feet bgs)	Sample Type	Sample Date	Total Petroleum Hydrocarbons	TPH-Diesel	TPH-Fuel Oil	TPH-Motor Oil
B-3-1989	2	P	04-May-89	--	--	<10	--
B-POT-4	1.5	P	22-Feb-91	--	**1,900**	--	**20**
B-POT-4	5	P	22-Feb-91	--	**71,000**	--	**1,400**
GB-155	2	P	16-Nov-17	--	**26**	--	**44**
GB-155A	5	P	02-Jan-18	--	**420**	--	**770**
GB-155A	9	P	04-Jan-18	--	**21,000**	--	**24,000**
GB-156	2	P	16-Nov-17	--	**160**	--	**340**
GB-156A	5	P	02-Jan-18	--	**110**	--	**260**
GB-167	5.5	P	12-Jan-18	--	**310**	--	**450**
GB-167	9	P	12-Jan-18	--	**15,000**	--	**13,000**
GB-171	1.5	P	10-Jan-18	--	**24**	--	**59**
GB-172	2	P	10-Jan-18	--	**210**	--	**340**
GB-172	6.5	P	11-Jan-18	--	**360**	--	**510**
GB-173	2	P	10-Jan-18	--	**240**	--	**440**
GB-173	8.5	P	11-Jan-18	--	**360,000**	--	**96,000**
GB-175	5	P	30-May-19	--	**260**	--	**450**
GB-176	8.5	P	29-May-19	--	**300**	--	**200**
GB-177	5	P	23-May-19	--	**250**	--	**480**
GB-177	9	P	23-May-19	--	**220**	--	**380**
MW-POT-12	3	P	26-Feb-91	--	**26**	--	**1,400**
MW-POT-12	5.5	P	26-Feb-91	--	**780**	--	**900**
PL4N	5	P	23-Apr-90	--	**3.3**	--	--
PSV-07	5	P	22-May-19	--	**21,000**	--	**15,000**
PSV-07	10	P	22-May-19	--	**14,000**	--	**4,900**
PSV-08	5	P	22-May-19	--	**89**	--	**260**
PSV-08	7	P	22-May-19	--	**13,000**	--	**7,300**
PZ-2	4.5	P	28-May-19	--	**6,400**	--	**6,100**
PZ-2	7.5	P	30-May-19	--	**27,000**	--	**16,000**
PZ-2	8	P	30-May-19	--	**87**	--	**90**
SS1-5.5C	6	P	04-Apr-90	--	**2**	<1.0	--
SS1-5E	5.5	P	04-Apr-90	--	<1.0	<1.0	--
SS1-5S	5.5	P	04-Apr-90	--	**250**	<1.0	--
SS1-5W	5.5	P	04-Apr-90	--	**40**	<1.0	--
SS1-7N	7.5	P	04-Apr-90	--	**15**	**84**	--
TB1-004	1	P	15-Oct-97	**206**	--	--	--
TB1-004	6	P	15-Oct-97	<12	--	--	--
TB3-006	10	P	18-Nov-97	**133,495**	--	--	--

TABLE F-3
TOTAL PETROLEUM HYDROCARBONS IN SOIL
NORTHEAST AREA OF THE POTRERO POWER PLANT SITE
SAN FRANCISCO, CALIFORNIA

Sample Location	Sample Depth (feet bgs)	Sample Type	Sample Date	Total Petroleum Hydrocarbons	TPH-Diesel	TPH-Fuel Oil	TPH-Motor Oil
TS1-014	1	P	10-Dec-97	**69**	--	--	--
TS1-014	1	FD	10-Dec-97	**53**	--	--	--
TS1-015	1	P	10-Dec-97	**7,764**	--	--	--
TS1-016	2	P	24-Nov-97	**12,869**	--	--	--

ABBREVIATIONS:
-- = Not analyzed for
< = Analyte was not detected at the given detection limit.
bgs = Below ground surface
FD = Field duplicate
P = Primary sample
TPH = total petroleum hydrocarbons
TPH-diesel = total petroleum hydrocarbons in the diesel range
TPH-fuel oil = total petroleum hydrocarbons in the fuel oil range
TPH-motor oil = total petroleum hydrocarbons in the motor oil range

NOTES:
All analytical results are dry weight results in milligrams per kilogram (mg/kg).
Detected results are presented in **bold**.

TABLE F-4
POLYCHLORINATED BIPHENYLS IN SOIL
NORTHEAST AREA OF THE POTRERO POWER PLANT SITE
SAN FRANCISCO, CALIFORNIA

Sample Location	Sample Depth (feet bgs)	Sample Type	Sample Date	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262	Aroclor 1268
B-POT-4	1.5	P	22-Feb-91	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	--	--
GB-155	2	P	16-Nov-17	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049
GB-156	2	P	16-Nov-17	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.14**	<0.050	<0.050
GB-171	1.5	P	10-Jan-18	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.44**	<0.050	<0.050
GB-172	2	P	10-Jan-18	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
GB-173	2	P	10-Jan-18	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
GB-175	5	P	30-May-19	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048	**0.21**	--	--
GB-176	8.5	P	29-May-19	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	--	--
GB-177	5	P	23-May-19	<0.047	<0.047	<0.047	<0.047	<0.047	<0.047	<0.047	--	--
GB-177	9	P	23-May-19	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	--	--
MW-POT-12	2	P	26-Feb-91	<0.022	<0.022	<0.022	<0.022	<0.022	<0.022	<0.022	--	--
MW-POT-12	3	P	26-Feb-91	<0.022	<0.022	<0.022	<0.022	<0.022	**0.064**	<0.022	--	--
PSV-07	5	P	22-May-19	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	--	--
PSV-07	10	P	22-May-19	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048	--	--
PSV-08	5	P	22-May-19	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	**0.081**	--	--
PSV-08	7	P	22-May-19	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048	--	--
PZ-2	4.5	P	28-May-19	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	--	--
PZ-2	7.5	P	30-May-19	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	--	--
PZ-2	8	P	30-May-19	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	--	--
TB1-004	1	P	15-Oct-97	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	**0.71**	--	--
TB1-004	6	P	15-Oct-97	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	--	--
TS1-014	1	P	10-Dec-97	<0.053	<0.053	<0.053	<0.053	<0.053	<0.053	<0.053	--	--
TS1-014	1	FD	10-Dec-97	<0.053	<0.053	<0.053	<0.053	<0.053	<0.053	<0.053	--	--
TS1-015	1	P	10-Dec-97	<0.055	<0.055	<0.055	<0.055	<0.055	<0.055	<0.055	--	--
TS1-016	2	P	24-Nov-97	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	**2.4**	--	--

ABBREVIATIONS:
-- = Not analyzed for
< = Analyte was not detected at the given detection limit.
bgs = Below ground surface
P = Primary sample

NOTES:
All analytical results are dry weight results in milligrams per kilogram (mg/kg).
Detected results are presented in **bold**.

TABLE F-5
POLYCYCLIC AROMATIC HYDROCARBONS IN SOIL
NORTHEAST AREA OF THE POTRERO POWER PLANT SITE
SAN FRANCISCO, CALIFORNIA

Sample Location	Sample Depth (feet bgs)	Sample Type	Sample Date	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene
Benzo(a)pyrene Potency Equivalency Factor (PEF) [b]				NA	NA	NA	NA	NA	0.1	1	0.1	NA
B-POT-4	1.5	P	22-Feb-91	--	--	**6.6**	<0.51	**0.23**	**1.7**	**1.4**	**1.1**	**1.3**
B-POT-4	5	P	22-Feb-91	--	--	**360**	**470**	**140**	**290**	**480**	**280**	**140**
GB-155	2	P	16-Nov-17	<0.010	**0.012**	<0.010	**0.09**	**0.066**	**0.18**	**0.29**	**0.2**	**0.3**
GB-155A	5	P	02-Jan-18	**1.2**	**1.6**	**0.78**	**1.6**	**3.1**	**6.4**	**8.7**	**7.4**	**8.8**
GB-155A	9	P	04-Jan-18	**280**	**84**	**180**	**68**	**370**	**340**	**340**	**210**	**200**
GB-156	2	P	16-Nov-17	**0.11**	**0.11**	<0.098	**1.4**	**0.93**	**3.3**	**6.1**	**3.8**	**6.2**
GB-156A	5	P	02-Jan-18	<0.10	<0.10	<0.10	**0.76**	**0.56**	**2.6**	**4**	**3.3**	**4.4**
GB-167	2	P	02-Jan-18	**0.024**	**0.022**	**0.019**	**0.054**	**0.039**	**0.13**	**0.14**	**0.12**	**0.094**
GB-167	5.5	P	12-Jan-18	**0.033**	**0.041**	**0.049**	**0.2**	**0.28**	**0.66**	**0.96**	**0.66**	**0.71**
GB-167	9	P	12-Jan-18	**140**	**15**	**75**	**50**	**67**	**84**	**160**	**87**	**120**
GB-171	1.5	P	10-Jan-18	<0.010	<0.010	<0.010	**0.018**	**0.018**	**0.071**	**0.089**	**0.087**	**0.087**
GB-172	2	P	10-Jan-18	**0.16**	**0.16**	<0.10	**1.2**	**0.83**	**3.6**	**7**	**4.9**	**6.1**
GB-172	6.5	P	11-Jan-18	**1**	**1**	**0.3**	**1.5**	**1.8**	**4.4**	**7.1**	**3.3**	**4.1**
GB-173	2	P	10-Jan-18	<0.10	<0.10	<0.10	**0.8**	**0.79**	**3.9**	**11**	**9.2**	**13**
GB-173	8.5	P	11-Jan-18	**760**	**1600**	**2800**	**2800**	**1200**	**1700**	**3800**	**2600**	**2300**
GB-175	5	P	30-May-19	--	--	<0.19	**1**	**1.3**	**5.4**	**6.5**	**6.1**	**5.6**
GB-176	8.5	P	29-May-19	--	--	**0.32**	**1.6**	**1.4**	**3.9**	**4.8**	**5**	**4.1**
GB-177	5	P	23-May-19	--	--	**0.21**	**0.43**	**0.8**	**2.3**	**3.2**	**3.7**	**2.4**
GB-177	9	P	23-May-19	--	--	**0.2**	**0.2**	**0.7**	**1.6**	**1.8**	**2**	**0.98**
MW-POT-12	3	P	26-Feb-91	--	--	<0.56	<0.56	**0.062**	**0.12**	**0.23**	**0.24**	<0.14
MW-POT-12	5.5	P	26-Feb-91	--	--	<0.58	**2.2**	**1.2**	**4.1**	**10**	**4.2**	**7.4**
PA-1	1	P	28-May-86	--	--	**0.88**	--	**0.65**	**2.4**	**2.3**	**2.2**	**2.7**
PA-1	1	FD	28-May-86	--	--	**0.78**	--	**0.57**	**2.2**	**2.2**	**1.8**	**2.2**
PL4N	5	P	23-Apr-90	--	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	**0.11**	**0.11**
PSV-07	5	P	22-May-19	--	--	**200**	**63**	**150**	**190**	**190**	**190**	**85**
PSV-07	10	P	22-May-19	--	--	**32**	**2.4**	**12**	**11**	**11**	**9.8**	**4.5**
PSV-08	5	P	22-May-19	--	--	<0.024	**0.015**	**0.014**	**0.055**	**0.077**	**0.087**	**0.065**
PSV-08	7	P	22-May-19	--	--	**180**	**56**	**200**	**180**	**240**	**200**	**150**
PZ-2	4.5	P	28-May-19	--	--	**1.9**	**49**	**23**	**79**	**110**	**120**	**130**
PZ-2	7.5	P	30-May-19	--	--	**450**	**320**	**370**	**400**	**530**	**470**	**420**
PZ-2	8	P	30-May-19	--	--	**0.49**	**0.63**	**0.81**	**0.99**	**1.1**	**1**	**0.72**
SS1-5.5C	6	P	04-Apr-90	--	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
SS1-5E	5.5	P	04-Apr-90	--	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
SS1-5S	5.5	P	04-Apr-90	--	<0.10	<0.10	<0.10	<0.10	<0.10	**0.1**	<0.10	**0.13**
SS1-5W	5.5	P	04-Apr-90	--	<0.10	<0.10	<0.10	<0.10	**0.26**	**0.45**	**0.33**	**0.49**
SS1-7N	7.5	P	04-Apr-90	--	<0.10	<0.10	<0.10	<0.10	<0.10	**0.12**	**0.11**	**0.18**
TB1-004	1	P	15-Oct-97	--	--	**1.9**	<0.22	**0.33**	**1.1**	**2.5**	**1.7**	**1.8**
TB1-004	6	P	15-Oct-97	--	--	<0.12	<0.24	<0.12	<0.12	<0.060	<0.12	<0.12
TB1-031	1	P	30-Jun-98	--	--	--	--	--	--	--	--	--
TB1-031	6	P	30-Jun-98	--	--	--	--	--	--	--	--	--
TB1-031	10	P	30-Jun-98	--	--	--	--	--	--	--	--	--
TB3-006	10	P	18-Nov-97	--	--	<18,204	<36,408	<18,204	<18,204	<9,102	<18,204	<18,204
TS1-014	1	P	10-Dec-97	--	--	<0.53	<11	<0.53	<0.53	<0.26	<0.53	<0.53
TS1-014	1	FD	10-Dec-97	--	--	**6.2**	<105	<5.3	<5.3	**1.5**	<5.3	<5.3
TS1-015	1	P	10-Dec-97	--	--	<5.5	<110	<5.5	<5.5	<2.8	<5.5	<5.5
TS1-016	2	P	24-Nov-97	--	--	<0.53	<1.1	<0.53	<0.53	**0.64**	<0.53	**0.77**

TABLE F-5
POLYCYCLIC AROMATIC HYDROCARBONS IN SOIL
NORTHEAST AREA OF THE POTRERO POWER PLANT SITE
SAN FRANCISCO, CALIFORNIA

Sample Location	Sample Depth (feet bgs)	Sample Type	Sample Date	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzo(a)pyrene Equivalent [a]
Benzo(a)pyrene Potency Equivalency Factor (PEF) [b]				0.1	0.01	0.34	NA	NA	0.1	NA	NA	NA	NA
B-POT-4	1.5	P	22-Feb-91	**0.5**	**1**	**1.7**	**0.53**	**0.35**	**0.91**	**2.7**	**0.16**	**10**	**2.4**
B-POT-4	5	P	22-Feb-91	**150**	**320**	**42**	**1500**	**260**	**400**	**2300**	**340**	**1400**	**609**
GB-155	2	P	16-Nov-17	**0.19**	**0.23**	**0.032**	**0.69**	**0.023**	**0.2**	**0.041**	**0.6**	**0.82**	**0.38**
GB-155A	5	P	02-Jan-18	**4.2**	**7.8**	**1.1**	**23**	**0.99**	**6.7**	**17**	**33**	**30**	**12**
GB-155A	9	P	04-Jan-18	**240**	**330**	**36**	**800**	**360**	**170**	**200**	**1400**	**830**	**452**
GB-156	2	P	16-Nov-17	**3.5**	**4.2**	**0.72**	**12**	**0.27**	**4**	**1.1**	**7.5**	**16**	**7.8**
GB-156A	5	P	02-Jan-18	**2.6**	**3.1**	**0.79**	**9.2**	**0.17**	**3.4**	**0.84**	**3.8**	**13**	**5.5**
GB-167	2	P	02-Jan-18	**0.1**	**0.16**	**0.035**	**0.16**	**0.024**	**0.081**	**0.029**	**0.094**	**0.24**	**0.2**
GB-167	5.5	P	12-Jan-18	**0.64**	**0.83**	**0.19**	**1.6**	**0.071**	**0.53**	**0.25**	**0.95**	**2.2**	**1.3**
GB-167	9	P	12-Jan-18	**65**	**130**	**17**	**420**	**62**	**83**	**620**	**570**	**440**	**199**
GB-171	1.5	P	10-Jan-18	**0.07**	**0.085**	**0.024**	**0.12**	<0.010	**0.058**	<0.010	**0.06**	**0.16**	**0.13**
GB-172	2	P	10-Jan-18	**4**	**6.7**	**0.93**	**11**	**0.24**	**3.7**	**0.63**	**6.2**	**22**	**9**
GB-172	6.5	P	11-Jan-18	**3.6**	**7.1**	**0.79**	**15**	**1.6**	**2.9**	**1.4**	**18**	**22**	**8.9**
GB-173	2	P	10-Jan-18	**7.4**	**7.4**	**1.1**	**17**	**0.15**	**8.5**	**0.48**	**4.9**	**27**	**14**
GB-173	8.5	P	11-Jan-18	**2100**	**2500**	**250**	**8200**	**770**	**1900**	**250000**	**12000**	**8100**	**4740**
GB-175	5	P	30-May-19	**2.1**	**5.7**	**0.98**	**10**	**0.38**	**3.6**	**0.3**	**10**	**24**	**8.6**
GB-176	8.5	P	29-May-19	**1.6**	**4.9**	**0.75**	**11**	**2.1**	**2.7**	**1.5**	**23**	**22**	**6.4**
GB-177	5	P	23-May-19	**1.2**	**2.8**	**0.46**	**5.8**	**0.2**	**2**	**0.36**	**3**	**7.5**	**4.3**
GB-177	9	P	23-May-19	**0.79**	**1.9**	**0.26**	**3.8**	**0.23**	**0.87**	**0.57**	**2.7**	**5.3**	**2.4**
MW-POT-12	3	P	26-Feb-91	<0.056	**0.58**	<0.14	**0.92**	<0.056	**0.26**	<0.56	**0.27**	**1**	**0.32**
MW-POT-12	5.5	P	26-Feb-91	<0.058	**5.7**	**8.7**	**20**	**0.7**	**4.6**	<0.58	**4.9**	**21**	**14**
PA-1	1	P	28-May-86	**1.2**	**2.6**	**0.23**	**7.7**	**0.69**	**1.8**	**1**	**6.7**	**7.3**	**3.2**
PA-1	1	FD	28-May-86	**1.1**	**2.5**	**0.18**	**6.3**	**0.56**	**2**	**0.7**	**5.8**	**6.8**	**3**
PL4N	5	P	23-Apr-90	<0.10	<0.10	<0.10	**0.13**	<0.10	<0.10	<0.10	**0.1**	**0.35**	**0.094**
PSV-07	5	P	22-May-19	**78**	**180**	**23**	**500**	**150**	**76**	**1500**	**690**	**590**	**253**
PSV-07	10	P	22-May-19	**2.8**	**9.9**	**0.82**	**37**	**9.4**	**4.1**	**4**	**58**	**59**	**14**
PSV-08	5	P	22-May-19	**0.03**	**0.049**	<0.024	**0.13**	<0.024	**0.053**	<0.024	**0.074**	**0.14**	**0.1**
PSV-08	7	P	22-May-19	**76**	**190**	**21**	**500**	**150**	**110**	**480**	**890**	**760**	**306**
PZ-2	4.5	P	28-May-19	**48**	**100**	**15**	**240**	**8.3**	**92**	**65**	**220**	**330**	**150**
PZ-2	7.5	P	30-May-19	**180**	**420**	**67**	**1300**	**370**	**310**	**3600**	**2200**	**1800**	**693**
PZ-2	8	P	30-May-19	**0.4**	**0.97**	**0.14**	**2.5**	**0.67**	**0.56**	**4.6**	**3.6**	**3.7**	**1.5**
SS1-5.5C	6	P	04-Apr-90	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.088
SS1-5E	5.5	P	04-Apr-90	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.088
SS1-5S	5.5	P	04-Apr-90	<0.10	**0.1**	<0.10	**0.17**	<0.10	<0.10	<0.10	**0.15**	**0.2**	**0.14**
SS1-5W	5.5	P	04-Apr-90	**0.33**	**0.35**	<0.10	**0.29**	<0.10	**0.34**	<0.10	**0.18**	**1**	**0.6**
SS1-7N	7.5	P	04-Apr-90	**0.14**	**0.11**	<0.10	**0.13**	<0.10	**0.12**	<0.10	**0.11**	**0.54**	**0.18**
TB1-004	1	P	15-Oct-97	**0.83**	**1.4**	**0.55**	**2.8**	<0.11	**1.6**	**0.98**	**0.97**	**3.2**	**3.3**
TB1-004	6	P	15-Oct-97	<0.12	<0.12	<0.060	<0.12	<0.12	<0.072	<0.24	<0.12	<0.12	<0.063
TB1-031	1	P	30-Jun-98	--	--	--	--	--	--	<0.0050	--	--	--
TB1-031	6	P	30-Jun-98	--	--	--	--	--	--	<0.0050	--	--	--
TB1-031	10	P	30-Jun-98	--	--	--	--	--	--	<0.0050	--	--	--
TB3-006	10	P	18-Nov-97	<18,204	<18,204	<9,102	<18,204	<18,204	<10,920	**1420**	<18,204	<18,204	<9,466
TS1-014	1	P	10-Dec-97	<0.53	<0.53	<0.26	<0.53	<0.53	<0.32	<0.53	<0.53	<0.53	<0.27
TS1-014	1	FD	10-Dec-97	<5.3	<5.3	<2.6	**2.6**	<5.3	<3.2	**3.9**	**3.4**	**5.3**	**2.9**
TS1-015	1	P	10-Dec-97	<5.5	<5.5	<2.8	<5.5	<5.5	<3.3	<5.5	<5.5	<5.5	<2.9
TS1-016	2	P	24-Nov-97	<0.53	<0.53	**0.9**	**1.1**	<0.53	**0.76**	<1.1	**0.82**	**1.2**	**1.1**

TABLE F-5
POLYCYCLIC AROMATIC HYDROCARBONS IN SOIL
NORTHEAST AREA OF THE POTRERO POWER PLANT SITE
SAN FRANCISCO, CALIFORNIA

ABBREVIATIONS:

-- = Not analyzed for
< = Analyte was not detected at the given detection limit.
bgs = Below ground surface
FD = Field duplicate
P = Primary sample

NOTES:

All analytical results are dry weight results in milligrams per kilogram (mg/kg).
Detected results are presented in **bold**.
[a] Benzo(a)pyrene Equivalent is calculated as the summation of the potency equivalency factors (PEFs) multiplied by the concentrations of the CPAHs. One-half the detection limit value was used in the BaPe concentration calculations for non-detect results.
[b] PEFs developed by California Environmental Protection Agency (Cal/EPA) Office of Environmental Health Hazard Assessment (OEHHA) (Cal/EPA 1993, 2002) and recommended in Department of Toxic Substances control (DTSC) guidance (Cal/EPA 2009).

REFERENCES:

California Environmental Protection Agency (Cal/EPA). 1993. Benzo(a)pyrene as a Toxic Air Contaminant. Part B. Health Effects of Benzo(a)pyrene. Air Toxicology and Epidemiology Section, Berkeley, CA.
Office of Environmental Health Hazard Assessment (OEHHA). Air Toxics Hot Spot Guidelines – Part II Technical Support Document for Describing Available Cancer Potency Factors.
Department of Toxic Substances Control (DTSC). 2009. Use of the Northern and Southern California Polynuclear Aromatic Hydrocarbon (PAH) Studies in the Manufactured Gas Plant Site Cleanup Process. 1 July.

TABLE F-6
INORGANICS IN SOIL
NORTHEAST AREA OF THE POTRERO POWER PLANT SITE
SAN FRANCISCO, CALIFORNIA

Sample Location	Sample Depth (feet bgs)	Sample Type	Sample Date	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Chromium	Cobalt	Copper	Cyanide
B-POT-4	1.5	P	22-Feb-91	<6.1	**4**	**41**	<0.51	--	**3.9**	**52**	**10**	**46**	<1.0
B-POT-4	5	P	22-Feb-91	<6.7	<0.56	<2.2	<0.56	--	<0.56	<1.1	<2.2	**4.3**	<1.1
BSS-POT-4	0.5	P	20-Mar-91	<7.0	**3.8**	**220**	<0.59	--	**4.8**	**120**	**16**	**78**	--
GB-155	2	P	16-Nov-17	<0.78	**2.7**	**144**	**0.35**	--	<0.52	**77**	**18**	**26**	--
GB-155A	5	P	02-Jan-18	<0.74	**2.6**	**49**	<0.25	--	<0.50	**144**	**19**	**16**	--
GB-155A	9	P	04-Jan-18	<0.75	**2.3**	**70**	<0.25	--	<0.50	**45**	**12**	**24**	--
GB-156	2	P	16-Nov-17	<0.74	**5.3**	**140**	**0.35**	--	**0.61**	**101**	**18**	**38**	--
GB-156A	5	P	02-Jan-18	<0.77	**4.9**	**122**	**0.31**	--	<0.52	**175**	**25**	**48**	--
GB-171	1.5	P	10-Jan-18	**2.4**	**3.4**	**202**	**0.36**	--	**1.8**	**75**	**24**	**435**	--
GB-172	2	P	10-Jan-18	<0.76	**3.3**	**128**	**0.37**	--	<0.51	**214**	**34**	**41**	--
GB-172	6.5	P	11-Jan-18	<0.75	**5.1**	**127**	**0.5**	--	<0.50	**168**	**19**	**41**	--
GB-173	2	P	10-Jan-18	<0.76	**2.8**	**98**	<0.25	--	<0.51	**538**	**48**	**36**	--
GB-173	8.5	P	11-Jan-18	<0.72	<0.72	**11**	<0.24	--	<0.48	**12**	**1.6**	**7.6**	--
GB-175	5	P	30-May-19	**6.9**	**5.8**	**340**	**0.46**	--	**3.7**	**120**	**28**	**690**	<0.50
GB-176	8.5	P	29-May-19	<1.9	**4.6**	**200**	**0.61**	--	<0.47	**51**	**7.3**	**12**	**0.86**
GB-177	5	P	23-May-19	**4**	**9**	**230**	**0.38**	--	<0.43	**98**	**16**	**98**	<0.51
GB-177	9	P	23-May-19	**6**	**5.2**	**86**	<0.36	--	<0.45	**270**	**28**	**36**	<0.50
MW-POT-12	3	P	26-Feb-91	<6.7	**3**	**160**	<0.56	**47**	**3**	**47**	**14**	**35**	<1.1
MW-POT-12	5.5	P	26-Feb-91	<7.0	**6.1**	**210**	<0.58	**200**	**2.8**	**200**	**28**	**58**	**17**
PA-1	1	P	28-May-86	--	**9.8**	--	--	--	--	--	--	--	<1.0
PA-1	1	FD	28-May-86	--	--	--	--	--	--	--	--	--	--
PSV-07	5	P	22-May-19	<4.2	<8.5	**180**	**1.3**	--	<1.1	**110**	**41**	**28**	<0.49
PSV-07	10	P	22-May-19	**18**	<3.7	**6.5**	<0.37	--	<0.46	**1000**	**66**	**12**	**0.64**
PSV-08	5	P	22-May-19	**3.1**	**3.9**	**150**	**0.49**	--	**2.5**	**91**	**30**	**220**	<0.51
PSV-08	7	P	22-May-19	**2.1**	**4.5**	**56**	**0.9**	--	<0.34	**26**	**96**	**17**	**2.1**
PZ-2	4.5	P	28-May-19	**1.9**	<3.8	**130**	<0.38	--	<0.47	**85**	**16**	**32**	<0.49
PZ-2	7.5	P	30-May-19	**1.8**	<3.0	**420**	**0.82**	--	<0.37	**150**	**26**	**29**	<0.48
PZ-2	8	P	30-May-19	<1.6	<3.1	**400**	**0.37**	--	<0.39	**130**	**29**	**62**	<0.51
SS1-5.5C	6	P	04-Apr-90	--	--	--	--	--	<0.50	**54**	--	--	--
SS1-5E	5.5	P	04-Apr-90	--	--	--	--	--	<0.50	**35**	--	--	--
SS1-5S	5.5	P	04-Apr-90	--	--	--	--	--	<0.50	**66**	--	--	--
SS1-5W	5.5	P	04-Apr-90	--	--	--	--	--	<0.50	**47**	--	--	--
SS1-7N	7.5	P	04-Apr-90	--	--	--	--	--	<0.50	**53**	--	--	--
TB1-004	1	P	15-Oct-97	<6.6	**4.9**	**110**	<0.55	**140**	<2.2	**140**	**21**	**43**	**0.66**
TB1-004	6	P	15-Oct-97	<7.2	**4.9**	**120**	<0.60	**215**	<2.4	**215**	**30**	**19**	<0.60
TB3-006	10	P	18-Nov-97	<7.3	**2.1**	**110**	<0.61	**11**	<2.4	**11**	<6.1	**158**	**2.4**
TS1-014	1	P	10-Dec-97	<6.3	**4.1**	<21	<0.53	**30**	<2.1	**30**	**6.6**	**16**	--
TS1-014	1	FD	10-Dec-97	<6.3	**4.5**	<21	<0.53	**27**	<2.1	**27**	**6.1**	**13**	--
TS1-015	1	P	10-Dec-97	<6.6	**5.4**	**32**	<0.55	**46**	<2.2	**46**	**8.4**	**30**	--
TS1-016	2	P	24-Nov-97	<6.3	**4.7**	**45**	**0.56**	**59**	<2.1	**59**	**11**	**43**	--

TABLE F-6
INORGANICS IN SOIL
NORTHEAST AREA OF THE POTRERO POWER PLANT SITE
SAN FRANCISCO, CALIFORNIA

Sample Location	Sample Depth (feet bgs)	Sample Type	Sample Date	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Sulfide	Thallium	Vanadium	Zinc
B-POT-4	1.5	P	22-Feb-91	**27**	<0.10	<1.0	**77**	<0.51	<1.0	<6.0	<0.51	**36**	**56**
B-POT-4	5	P	22-Feb-91	<5.6	<0.11	<1.1	**2.6**	<0.56	<1.1	**35**	<0.56	<2.2	**3.3**
BSS-POT-4	0.5	P	20-Mar-91	**420**	**0.43**	<1.2	**200**	<24	<1.2	--	<12	**43**	**500**
GB-155	2	P	16-Nov-17	**27**	**0.94**	<0.26	**77**	<0.78	<0.26	--	<0.78	**54**	**50**
GB-155A	5	P	02-Jan-18	**24**	**0.14**	**0.34**	**265**	<0.74	<0.25	--	**0.88**	**30**	**49**
GB-155A	9	P	04-Jan-18	**26**	<0.083	<0.25	**68**	<0.75	<0.25	--	<0.75	**15**	**19**
GB-156	2	P	16-Nov-17	**109**	**3.6**	<0.25	**188**	<0.74	<0.25	--	**1.2**	**42**	**75**
GB-156A	5	P	02-Jan-18	**3080**	**0.24**	**0.34**	**351**	<0.77	<0.26	--	<0.77	**38**	**94**
GB-171	1.5	P	10-Jan-18	**503**	**0.82**	**1.5**	**131**	<0.77	**0.4**	--	<0.77	**57**	**713**
GB-172	2	P	10-Jan-18	**68**	**0.79**	**0.36**	**354**	<0.76	<0.25	--	<0.76	**47**	**71**
GB-172	6.5	P	11-Jan-18	**44**	**1.3**	**5**	**195**	<0.75	<0.25	--	<0.75	**46**	**61**
GB-173	2	P	10-Jan-18	**81**	**3**	<0.25	**890**	<0.76	<0.25	--	<0.76	**31**	**70**
GB-173	8.5	P	11-Jan-18	**21**	**0.33**	**0.89**	**15**	<0.72	<0.24	--	<0.72	**8.5**	**24**
GB-175	5	P	30-May-19	**640**	**1.1**	**2.3**	**290**	<3.1	**1.3**	--	<1.5	**80**	**1000**
GB-176	8.5	P	29-May-19	**6.7**	**0.064**	**2.5**	**39**	<3.8	<0.94	--	<1.9	**40**	**33**
GB-177	5	P	23-May-19	**270**	**0.87**	**8.3**	**170**	<3.4	<0.86	--	<1.7	**40**	**350**
GB-177	9	P	23-May-19	**210**	**0.13**	<1.8	**470**	<3.6	<0.89	--	<1.8	**45**	**92**
MW-POT-12	3	P	26-Feb-91	**45**	**0.27**	<4.4	**86**	<14	<1.1	<8.0	<17	**42**	**62**
MW-POT-12	5.5	P	26-Feb-91	**470**	**0.27**	<4.6	**560**	<14	<1.2	<40	<17	**160**	**89**
PA-1	1	P	28-May-86	**130**	**0.1**	--	--	--	--	--	--	--	--
PA-1	1	FD	28-May-86	--	**0.2**	--	--	--	--	--	--	--	--
PSV-07	5	P	22-May-19	**12**	**0.095**	<4.2	**260**	<8.5	<2.1	--	<4.2	**34**	**93**
PSV-07	10	P	22-May-19	<1.9	**0.025**	<1.9	**1300**	**4.9**	<0.93	--	<1.9	**27**	**18**
PSV-08	5	P	22-May-19	**240**	**0.45**	<1.6	**530**	<3.3	<0.81	--	<1.6	**69**	**870**
PSV-08	7	P	22-May-19	**7.6**	**1.4**	**1.9**	**3800**	<2.7	<0.68	--	<1.4	**830**	**26**
PZ-2	4.5	P	28-May-19	**73**	**0.63**	<1.9	**180**	<3.8	<0.94	--	<1.9	**41**	**93**
PZ-2	7.5	P	30-May-19	**24**	**0.045**	<1.5	**350**	<3.0	<0.75	--	<1.5	**81**	**38**
PZ-2	8	P	30-May-19	**9**	**0.06**	<1.6	**70**	<3.1	<0.78	--	<1.6	**160**	**65**
SS1-5.5C	6	P	04-Apr-90	**44**	--	--	--	--	--	--	--	--	**100**
SS1-5E	5.5	P	04-Apr-90	**3.5**	--	--	--	--	--	--	--	--	**34**
SS1-5S	5.5	P	04-Apr-90	**120**	--	--	--	--	--	--	--	--	**70**
SS1-5W	5.5	P	04-Apr-90	**23**	--	--	--	--	--	--	--	--	**67**
SS1-7N	7.5	P	04-Apr-90	**22**	--	--	--	--	--	--	--	--	**81**
TB1-004	1	P	15-Oct-97	**56**	**0.17**	<11	**270**	<1.1	<2.2	--	<1.1	**49**	**92**
TB1-004	6	P	15-Oct-97	**6.2**	<0.060	<12	**305**	<1.2	<2.4	--	<1.2	**61**	**45**
TB3-006	10	P	18-Nov-97	**5**	**0.08**	<12	**35**	**1.3**	<2.4	--	<1.2	**22**	**153**
TS1-014	1	P	10-Dec-97	**20**	<0.053	<11	**30**	**1.4**	<2.1	--	<1.1	**23**	**54**
TS1-014	1	FD	10-Dec-97	**17**	<0.053	<11	**28**	**1.3**	<2.1	--	<1.1	**22**	**47**
TS1-015	1	P	10-Dec-97	**48**	**0.2**	<11	**48**	**2.2**	<2.2	--	<1.1	**33**	**133**
TS1-016	2	P	24-Nov-97	**56**	<0.053	<11	**55**	<1.1	<2.1	--	<1.1	**39**	**108**

TABLE F-6
INORGANICS IN SOIL
NORTHEAST AREA OF THE POTRERO POWER PLANT SITE
SAN FRANCISCO, CALIFORNIA

ABBREVIATIONS:
-- = Not analyzed for
< = Analyte was not detected at the given detection limit.
bgs = Below ground surface
FD = Field duplicate
P = Primary sample

NOTES:
All analytical results are dry weight results in milligrams per kilogram (mg/kg).
Detected results are presented in **bold**.

TABLE F-7
VOLATILE ORGANIC COMPOUNDS IN SOIL GAS
NORTHEAST AREA OF THE POTRERO POWER PLANT SITE
SAN FRANCISCO, CALIFORNIA

Sample Location	Sample ID	Sample Depth	Sample Type	Sample Date	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1,2-Trichlorotrifluoroethane (Freon 113)	1,1-Dichloroethane	1,1-Dichloroethene	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene
GB-154	GB-154-SV-5	5	P	18-Dec-17	< 6.9	< 2.7	< 11	< 2	< 2	< 15	< 7.4	< 3.8	< 3
GB-154	DUP-121817	5	FD	18-Dec-17	< 6.9	< 2.7	< 11	< 2	< 2	< 15	< 7.4	< 3.8	< 3
GB-155	GB-155C-SV-3	3	P	28-Feb-18	< 27	< 11	< 46	< 8.1	< 7.9	< 59	< 29	< 69	< 12
GB-155	GB-155B-SV-5	5	P	27-Feb-18	< 270	< 110	< 460	< 81	< 79	< 590	< 290	< 150	< 120
GB-156B	GB-156B-SV-5	5	P	28-Feb-18	< 6.9	< 2.7	< 11	< 2	< 2	< 15	< 7.4	< 3.8	< 3
PSV-01	PSV-01-2.25	2.25	P	28-May-19	< 5.5	< 4.4	--	< 3.2	< 3.2	< 15	< 3.9	< 6.1	< 4.8
PSV-02	PSV-02-5.0	5	P	29-May-19	< 5.5	< 4.4	--	< 3.2	< 3.2	< 15	< 3.9	< 6.1	< 4.8
PSV-03	PSV-03-3.0	3	P	29-May-19	< 5.5	< 4.4	--	< 3.2	< 3.2	< 15	< 3.9	< 6.1	< 4.8
PSV-04	PSV-04-4.0	4	P	29-May-19	< 5.5	< 4.4	--	< 3.2	< 3.2	< 15	< 3.9	< 6.1	< 4.8
PSV-04	PSV-04-8.0	8	P	29-May-19	< 1.4	< 1.1	--	< 0.81	< 0.79	< 3.7	< 0.98	< 1.5	< 1.2
PSV-05	PSV-05-4.0	4	P	29-May-19	< 5.5	< 4.4	--	< 3.2	< 3.2	< 15	< 3.9	< 6.1	< 4.8
PSV-05	PSV-05-8.0	8	P	29-May-19	< 5.5	< 4.4	--	< 3.2	< 3.2	< 15	< 3.9	< 6.1	< 4.8
PSV-06	PSV-06-4.0	4	P	28-May-19	< 5.5	< 4.4	--	< 3.2	< 3.2	< 15	< 3.9	< 6.1	< 4.8
PSV-06	PSV-06-8.0	8	P	28-May-19	< 5.5	< 4.4	--	< 3.2	< 3.2	< 15	< 3.9	< 6.1	< 4.8
PSV-07	PSV-07-4.0	4	P	29-May-19	< 8200	< 6500	--	< 4900	< 4800	< 22000	< 5900	< 9200	< 7200
PSV-07	PSV-07-8.0	8	P	29-May-19	< 360	< 290	--	< 210	< 210	< 980	**290**	< 410	< 320
PSV-08	PSV-08-4.0	4	P	29-May-19	< 5.4	< 4.3	--	< 3.2	< 3.1	< 15	< 3.9	< 6	< 4.7
PSV-08	DUP-052919	4	FD	29-May-19	< 5.5	< 4.4	--	< 3.2	< 3.2	< 15	< 3.9	< 6.1	< 4.8

TABLE F-7
VOLATILE ORGANIC COMPOUNDS IN SOIL GAS
NORTHEAST AREA OF THE POTRERO POWER PLANT SITE
SAN FRANCISCO, CALIFORNIA

Sample Location	Sample ID	Sample Depth	1,2-Dichloroethane	1,2-Dichloropropane	1,2-Dichlorotetrafluoroethane (Freon 114)	1,3,5-Trimethylbenzene	1,3-Butadiene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Dioxane	2,2,4-Trimethylpentane	2-Butanone (MEK)
GB-154	GB-154-SV-5	5	< 2	< 2.3	< 14	< 2.5	--	< 3	< 3	--	--	< 4.4
GB-154	DUP-121817	5	< 2	< 2.3	< 14	< 2.5	--	< 3	< 3	--	--	< 4.4
GB-155	GB-155C-SV-3	3	< 8.1	< 9.2	< 56	< 9.8	--	< 12	< 12	--	--	< 18
GB-155	GB-155B-SV-5	5	< 81	< 92	< 560	< 98	--	< 120	< 120	--	--	< 180
GB-156B	GB-156B-SV-5	5	< 2	< 2.3	< 14	< 2.5	--	< 3	< 3	--	--	< 4.4
PSV-01	PSV-01-2.25	2.25	< 3.2	< 3.7	< 5.6	< 3.9	< 1.8	< 4.8	< 4.8	< 72	< 3.7	< 5.9
PSV-02	PSV-02-5.0	5	< 3.2	< 3.7	< 5.6	< 3.9	< 1.8	< 4.8	< 4.8	< 72	< 3.7	< 5.9
PSV-03	PSV-03-3.0	3	< 3.2	< 3.7	< 5.6	< 3.9	< 1.8	< 4.8	< 4.8	< 72	< 3.7	< 5.9
PSV-04	PSV-04-4.0	4	< 3.2	< 3.7	< 5.6	< 3.9	< 1.8	< 4.8	< 4.8	< 72	< 3.7	< 5.9
PSV-04	PSV-04-8.0	8	< 0.81	< 0.92	< 1.4	< 0.98	< 0.44	< 1.2	< 1.2	< 18	< 0.93	< 1.5
PSV-05	PSV-05-4.0	4	< 3.2	< 3.7	< 5.6	< 3.9	< 1.8	< 4.8	< 4.8	< 72	< 3.7	< 5.9
PSV-05	PSV-05-8.0	8	< 3.2	< 3.7	< 5.6	< 3.9	< 1.8	< 4.8	< 4.8	< 72	< 3.7	< 5.9
PSV-06	PSV-06-4.0	4	< 3.2	< 3.7	< 5.6	< 3.9	< 1.8	< 4.8	< 4.8	< 72	< 3.7	< 5.9
PSV-06	PSV-06-8.0	8	< 3.2	< 3.7	< 5.6	< 3.9	< 1.8	< 4.8	< 4.8	< 72	< 3.7	< 5.9
PSV-07	PSV-07-4.0	4	< 4900	< 5500	< 8400	< 5900	< 2700	< 7200	< 7200	< 110000	< 5600	< 8800
PSV-07	PSV-07-8.0	8	< 210	< 240	< 370	< 260	< 120	< 320	< 320	< 4800	**2000**	< 390
PSV-08	PSV-08-4.0	4	< 3.2	< 3.6	< 5.5	< 3.9	< 1.7	< 4.7	< 4.7	< 71	< 3.7	**12**
PSV-08	DUP-052919	4	< 3.2	< 3.7	< 5.6	< 3.9	< 1.8	< 4.8	< 4.8	< 72	< 3.7	**11**

TABLE F-7
VOLATILE ORGANIC COMPOUNDS IN SOIL GAS
NORTHEAST AREA OF THE POTRERO POWER PLANT SITE
SAN FRANCISCO, CALIFORNIA

Sample Location	Sample ID	Sample Depth	2-Chlorotoluene	2-Hexanone	3-Chloropropene	4-Ethyltoluene	4-Isopropyltoluene	4-Methyl-2-pentanone (MIBK)	Acetone	Benzene	Benzylchloride
GB-154	GB-154-SV-5	5	--	< 6.1	--	< 2.5	--	< 6.1	< 4.8	< 1.6	< 7.8
GB-154	DUP-121817	5	--	< 6.1	--	< 2.5	--	< 6.1	**11**	< 1.6	< 7.8
GB-155	GB-155C-SV-3	3	--	< 25	--	< 9.8	--	< 25	**80**	**38**	< 31
GB-155	GB-155B-SV-5	5	--	< 250	--	< 98	--	< 250	< 190	**5200**	< 310
GB-156B	GB-156B-SV-5	5	--	< 6.1	--	< 2.5	--	< 6.1	**12**	< 1.6	< 7.8
PSV-01	PSV-01-2.25	2.25	< 4.1	< 8.2	< 6.3	< 3.9	< 4.4	< 8.2	< 48	< 2.6	< 4.1
PSV-02	PSV-02-5.0	5	< 4.1	< 8.2	< 6.3	< 3.9	< 4.4	< 8.2	< 48	< 2.6	< 4.1
PSV-03	PSV-03-3.0	3	< 4.1	< 8.2	< 6.3	< 3.9	< 4.4	< 8.2	< 48	**2.6**	< 4.1
PSV-04	PSV-04-4.0	4	< 4.1	< 8.2	< 6.3	< 3.9	< 4.4	< 8.2	< 48	< 2.6	< 4.1
PSV-04	PSV-04-8.0	8	< 1	< 2	< 1.6	< 0.98	< 1.1	< 2	< 12	< 0.64	< 1
PSV-05	PSV-05-4.0	4	< 4.1	< 8.2	< 6.3	< 3.9	< 4.4	< 8.2	< 48	< 2.6	< 4.1
PSV-05	PSV-05-8.0	8	< 4.1	< 8.2	< 6.3	< 3.9	< 4.4	< 8.2	< 48	< 2.6	< 4.1
PSV-06	PSV-06-4.0	4	< 4.1	< 8.2	< 6.3	< 3.9	< 4.4	< 8.2	< 48	**7.8**	< 4.1
PSV-06	PSV-06-8.0	8	< 4.1	< 8.2	< 6.3	< 3.9	< 4.4	< 8.2	< 48	**150**	< 4.1
PSV-07	PSV-07-4.0	4	< 6200	< 12000	< 9400	< 5900	< 6600	< 12000	< 71000	**170000**	< 6200
PSV-07	PSV-07-8.0	8	< 270	< 540	< 410	< 260	< 290	< 540	< 3100	**18000**	< 270
PSV-08	PSV-08-4.0	4	< 4.1	< 8.1	< 6.2	< 3.9	< 4.3	< 8	**110**	**11**	< 4.1
PSV-08	DUP-052919	4	< 4.1	< 8.2	< 6.3	< 3.9	< 4.4	< 8.2	**120**	**17**	< 4.1

TABLE F-7
VOLATILE ORGANIC COMPOUNDS IN SOIL GAS
NORTHEAST AREA OF THE POTRERO POWER PLANT SITE
SAN FRANCISCO, CALIFORNIA

Sample Location	Sample ID	Sample Depth	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chlorodibromomethane	Chloroethane	Chloroform
GB-154	GB-154-SV-5	5	< 3.4	< 5.2	< 1.9	< 6.2	< 3.1	< 2.3	< 4.3	< 1.3	**2.8**
GB-154	DUP-121817	5	< 3.4	< 5.2	< 1.9	< 6.2	< 3.1	< 2.3	< 4.3	< 1.3	**2.6**
GB-155	GB-155C-SV-3	3	< 13	< 21	< 7.8	< 25	< 13	< 9.2	< 17	< 5.3	**30**
GB-155	GB-155B-SV-5	5	< 130	< 210	< 78	< 250	< 130	< 92	< 170	< 53	< 98
GB-156B	GB-156B-SV-5	5	< 3.4	< 5.2	< 1.9	< 6.2	< 3.1	< 2.3	< 4.3	< 1.3	**8.4**
PSV-01	PSV-01-2.25	2.25	< 5.4	< 8.3	< 3.1	**34**	< 5	< 3.7	< 6.8	< 5.3	**7.1**
PSV-02	PSV-02-5.0	5	< 5.4	< 8.3	< 3.1	< 6.2	< 5	< 3.7	< 6.8	< 5.3	< 3.9
PSV-03	PSV-03-3.0	3	< 5.4	< 8.3	< 3.1	**11**	< 5	< 3.7	< 6.8	< 5.3	**4.7**
PSV-04	PSV-04-4.0	4	< 5.4	< 8.3	< 3.1	< 6.2	< 5	< 3.7	< 6.8	< 5.3	< 3.9
PSV-04	PSV-04-8.0	8	< 1.3	< 2.1	< 0.78	< 1.6	< 1.3	< 0.92	< 1.7	< 1.3	< 0.98
PSV-05	PSV-05-4.0	4	< 5.4	< 8.3	< 3.1	< 6.2	< 5	< 3.7	< 6.8	< 5.3	< 3.9
PSV-05	PSV-05-8.0	8	< 5.4	< 8.3	< 3.1	**25**	< 5	< 3.7	< 6.8	< 5.3	< 3.9
PSV-06	PSV-06-4.0	4	< 5.4	< 8.3	< 3.1	**11**	< 5	< 3.7	< 6.8	< 5.3	< 3.9
PSV-06	PSV-06-8.0	8	< 5.4	< 8.3	< 3.1	< 6.2	< 5	< 3.7	< 6.8	< 5.3	< 3.9
PSV-07	PSV-07-4.0	4	< 8000	< 12000	< 4700	< 9300	< 7500	< 5500	< 10000	< 7900	< 5900
PSV-07	PSV-07-8.0	8	< 360	< 550	< 210	< 410	< 330	**1400**	< 450	< 350	< 260
PSV-08	PSV-08-4.0	4	< 5.3	< 8.1	< 3.1	**34**	< 4.9	< 3.6	< 6.7	< 5.2	**6.8**
PSV-08	DUP-052919	4	< 5.4	< 8.3	< 3.1	**55**	< 5	< 3.7	< 6.8	< 5.3	**9.1**

TABLE F-7
VOLATILE ORGANIC COMPOUNDS IN SOIL GAS
NORTHEAST AREA OF THE POTRERO POWER PLANT SITE
SAN FRANCISCO, CALIFORNIA

Sample Location	Sample ID	Sample Depth	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Cyclohexane	Dibromomethane	Dichlorodifluoromethane (Freon 12)	Ethanol	Ethyl tert-Butyl Ether (ETBE)	Ethylbenzene
GB-154	GB-154-SV-5	5	< 1	< 2	< 2.3	--	--	< 2.5	< 9.4	< 8.4	< 2.2
GB-154	DUP-121817	5	< 1	< 2	< 2.3	--	--	< 2.5	< 9.4	< 8.4	< 2.2
GB-155	GB-155C-SV-3	3	< 4.1	< 7.9	< 9.1	--	--	< 9.9	< 38	< 33	10 J
GB-155	GB-155B-SV-5	5	< 41	< 79	< 91	--	--	< 99	< 380	< 330	**410**
GB-156B	GB-156B-SV-5	5	< 1	< 2	< 2.3	--	--	**3.7**	< 9.4	< 8.4	< 2.2
PSV-01	PSV-01-2.25	2.25	< 4.1	< 3.2	< 3.6	< 2.8	< 5.7	< 9.9	--	--	< 3.5
PSV-02	PSV-02-5.0	5	< 4.1	< 3.2	< 3.6	< 2.8	< 5.7	**10**	--	--	< 3.5
PSV-03	PSV-03-3.0	3	< 4.1	< 3.2	< 3.6	< 2.8	< 5.7	**14**	--	--	< 3.5
PSV-04	PSV-04-4.0	4	< 4.1	< 3.2	< 3.6	< 2.8	< 5.7	**16**	--	--	< 3.5
PSV-04	PSV-04-8.0	8	< 1	< 0.79	< 0.91	< 0.69	< 1.4	**3.1**	--	--	< 0.87
PSV-05	PSV-05-4.0	4	< 4.1	< 3.2	< 3.6	< 2.8	< 5.7	< 9.9	--	--	< 3.5
PSV-05	PSV-05-8.0	8	< 4.1	< 3.2	< 3.6	< 2.8	< 5.7	< 9.9	--	--	< 3.5
PSV-06	PSV-06-4.0	4	< 4.1	< 3.2	< 3.6	< 2.8	< 5.7	< 9.9	--	--	< 3.5
PSV-06	PSV-06-8.0	8	< 4.1	< 3.2	< 3.6	**3.1**	< 5.7	< 9.9	--	--	**5.9**
PSV-07	PSV-07-4.0	4	< 6200	< 4800	< 5400	< 4100	< 8500	< 15000	--	--	**12000**
PSV-07	PSV-07-8.0	8	< 270	< 210	< 240	**2900**	< 380	< 660	--	--	**1600**
PSV-08	PSV-08-4.0	4	< 4.1	< 3.1	< 3.6	**6.1**	< 5.6	< 9.7	--	--	< 3.4
PSV-08	DUP-052919	4	< 4.1	< 3.2	< 3.6	**8.9**	< 5.7	< 9.9	--	--	< 3.5

TABLE F-7
VOLATILE ORGANIC COMPOUNDS IN SOIL GAS
NORTHEAST AREA OF THE POTRERO POWER PLANT SITE
SAN FRANCISCO, CALIFORNIA

Sample Location	Sample ID	Sample Depth	Hexachlorobutadiene	Isopropyl ether	m,p-Xylenes	Methyl tert-butyl ether (MTBE)	Methylene Chloride	Naphthalene	n-Heptane	n-Hexane	o-Xylene
GB-154	GB-154-SV-5	5	< 16	< 8.4	< 8.7	< 7.2	< 17	< 26	--	--	< 2.2
GB-154	DUP-121817	5	< 16	< 8.4	< 8.7	< 7.2	< 17	< 26	--	--	< 2.2
GB-155	GB-155C-SV-3	3	< 64	< 33	< 35	< 29	< 69	< 100	--	--	< 8.7
GB-155	GB-155B-SV-5	5	< 640	< 330	**640**	< 290	< 690	**1600**	--	--	**350**
GB-156B	GB-156B-SV-5	5	< 16	< 8.4	< 8.7	< 7.2	< 17	< 26	--	--	< 2.2
PSV-01	PSV-01-2.25	2.25	< 8.5	--	< 8.7	< 2.9	< 6.9	< 10	< 3.3	< 2.8	< 3.5
PSV-02	PSV-02-5.0	5	< 8.5	--	< 8.7	< 2.9	< 6.9	< 10	< 3.3	< 2.8	< 3.5
PSV-03	PSV-03-3.0	3	< 8.5	--	< 8.7	< 2.9	< 6.9	**21**	< 3.3	< 2.8	< 3.5
PSV-04	PSV-04-4.0	4	< 8.5	--	< 8.7	< 2.9	< 6.9	< 10	< 3.3	< 2.8	< 3.5
PSV-04	PSV-04-8.0	8	< 2.1	--	< 2.2	< 0.72	< 1.7	< 2.6	< 0.82	< 0.7	< 0.87
PSV-05	PSV-05-4.0	4	< 8.5	--	< 8.7	< 2.9	< 6.9	< 10	< 3.3	< 2.8	< 3.5
PSV-05	PSV-05-8.0	8	< 8.5	--	< 8.7	< 2.9	< 6.9	< 10	< 3.3	< 2.8	< 3.5
PSV-06	PSV-06-4.0	4	< 8.5	--	< 8.7	< 2.9	< 6.9	< 10	< 3.3	< 2.8	< 3.5
PSV-06	PSV-06-8.0	8	< 8.5	--	< 8.7	< 2.9	< 6.9	< 10	< 3.3	< 2.8	< 3.5
PSV-07	PSV-07-4.0	4	< 13000	--	< 13000	< 4300	< 10000	**330000**	< 4900	< 4200	< 5200
PSV-07	PSV-07-8.0	8	< 570	--	**1200**	< 190	< 460	**55000**	< 220	< 190	**650**
PSV-08	PSV-08-4.0	4	< 8.4	--	< 8.5	< 2.8	< 6.8	**43**	< 3.2	**4**	< 3.4
PSV-08	DUP-052919	4	< 8.5	--	< 8.7	< 2.9	< 6.9	**51**	< 3.3	< 2.8	< 3.5

TABLE F-7
VOLATILE ORGANIC COMPOUNDS IN SOIL GAS
NORTHEAST AREA OF THE POTRERO POWER PLANT SITE
SAN FRANCISCO, CALIFORNIA

Sample Location	Sample ID	Sample Depth	Propylbenzene	sec-Butylbenzene	Styrene	Tert-Amyl Methyl Ether (TAME)	tert-Butyl Alcohol (TBA)	tert-Butylbenzene	Tetrachloroethene	Tetrahydrofuran	Toluene
GB-154	GB-154-SV-5	5	--	--	< 6.4	< 8.4	< 6.1	--	**240**	--	< 1.9
GB-154	DUP-121817	5	--	--	< 6.4	< 8.4	< 6.1	--	**240**	--	< 1.9
GB-155	GB-155C-SV-3	3	--	--	< 26	< 33	< 24	--	< 14	--	**8.8**
GB-155	GB-155B-SV-5	5	--	--	< 260	< 330	< 240	--	< 140	--	**1000**
GB-156B	GB-156B-SV-5	5	--	--	< 6.4	< 8.4	< 6.1	--	< 3.4	--	< 1.9
PSV-01	PSV-01-2.25	2.25	< 3.9	< 4.4	< 3.4	--	< 61	< 4.4	**25**	< 59	< 3
PSV-02	PSV-02-5.0	5	< 3.9	< 4.4	< 3.4	--	< 61	< 4.4	< 5.4	< 59	< 3
PSV-03	PSV-03-3.0	3	< 3.9	< 4.4	< 3.4	--	< 61	< 4.4	**130**	< 59	< 3
PSV-04	PSV-04-4.0	4	< 3.9	< 4.4	< 3.4	--	< 61	< 4.4	< 5.4	< 59	< 3
PSV-04	PSV-04-8.0	8	< 0.98	< 1.1	< 0.85	--	< 15	< 1.1	< 1.4	< 15	**0.75**
PSV-05	PSV-05-4.0	4	< 3.9	< 4.4	< 3.4	--	< 61	< 4.4	< 5.4	< 59	< 3
PSV-05	PSV-05-8.0	8	< 3.9	< 4.4	< 3.4	--	< 61	< 4.4	< 5.4	< 59	< 3
PSV-06	PSV-06-4.0	4	< 3.9	< 4.4	< 3.4	--	< 61	< 4.4	< 5.4	< 59	< 3
PSV-06	PSV-06-8.0	8	< 3.9	< 4.4	< 3.4	--	< 61	< 4.4	< 5.4	< 59	**9.2**
PSV-07	PSV-07-4.0	4	< 5900	< 6600	< 5100	--	< 91000	< 6600	< 8100	< 88000	**11000**
PSV-07	PSV-07-8.0	8	**780**	**780**	< 230	--	< 4000	< 290	< 360	< 3900	**1700**
PSV-08	PSV-08-4.0	4	< 3.9	< 4.3	< 3.3	--	< 60	< 4.3	< 5.3	< 58	**5.1**
PSV-08	DUP-052919	4	< 3.9	< 4.4	< 3.4	--	< 61	< 4.4	**19**	< 59	**7.8**

TABLE F-7
VOLATILE ORGANIC COMPOUNDS IN SOIL GAS
NORTHEAST AREA OF THE POTRERO POWER PLANT SITE
SAN FRANCISCO, CALIFORNIA

Sample Location	Sample ID	Sample Depth	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane (Freon 11)	Vinyl Acetate	Vinyl Chloride	Xylenes
GB-154	GB-154-SV-5	5	< 2	< 4.5	< 2.7	< 5.6	< 7	< 1.3	< 8.7
GB-154	DUP-121817	5	< 2	< 4.5	< 2.7	< 5.6	< 7	< 1.3	< 8.7
GB-155	GB-155C-SV-3	3	< 7.9	< 18	< 11	< 22	< 28	< 5.1	< 35
GB-155	GB-155B-SV-5	5	< 79	< 180	< 110	< 220	< 280	< 51	**990**
GB-156B	GB-156B-SV-5	5	< 2	< 4.5	**4.6**	< 5.6	< 7	< 1.3	< 8.7
PSV-01	PSV-01-2.25	2.25	< 3.2	< 3.6	**8.3**	< 4.5	--	< 2	--
PSV-02	PSV-02-5.0	5	< 3.2	< 3.6	< 4.3	< 4.5	--	< 2	--
PSV-03	PSV-03-3.0	3	< 3.2	< 3.6	**32**	**16**	--	< 2	--
PSV-04	PSV-04-4.0	4	< 3.2	< 3.6	< 4.3	< 4.5	--	< 2	--
PSV-04	PSV-04-8.0	8	< 0.79	< 0.91	< 1.1	< 1.1	--	< 0.51	--
PSV-05	PSV-05-4.0	4	< 3.2	< 3.6	< 4.3	< 4.5	--	< 2	--
PSV-05	PSV-05-8.0	8	< 3.2	< 3.6	< 4.3	< 4.5	--	< 2	--
PSV-06	PSV-06-4.0	4	< 3.2	< 3.6	< 4.3	< 4.5	--	< 2	--
PSV-06	PSV-06-8.0	8	< 3.2	< 3.6	< 4.3	< 4.5	--	< 2	--
PSV-07	PSV-07-4.0	4	< 4800	< 5400	< 6400	< 6700	--	< 3100	--
PSV-07	PSV-07-8.0	8	< 210	< 240	< 280	< 300	--	< 140	--
PSV-08	PSV-08-4.0	4	< 3.1	< 3.6	< 4.2	< 4.4	--	< 2	--
PSV-08	DUP-052919	4	< 3.2	< 3.6	< 4.3	< 4.5	--	< 2	--

TABLE F-7
VOLATILE ORGANIC COMPOUNDS IN SOIL GAS
NORTHEAST AREA OF THE POTRERO POWER PLANT SITE
SAN FRANCISCO, CALIFORNIA

ABBREVIATIONS:

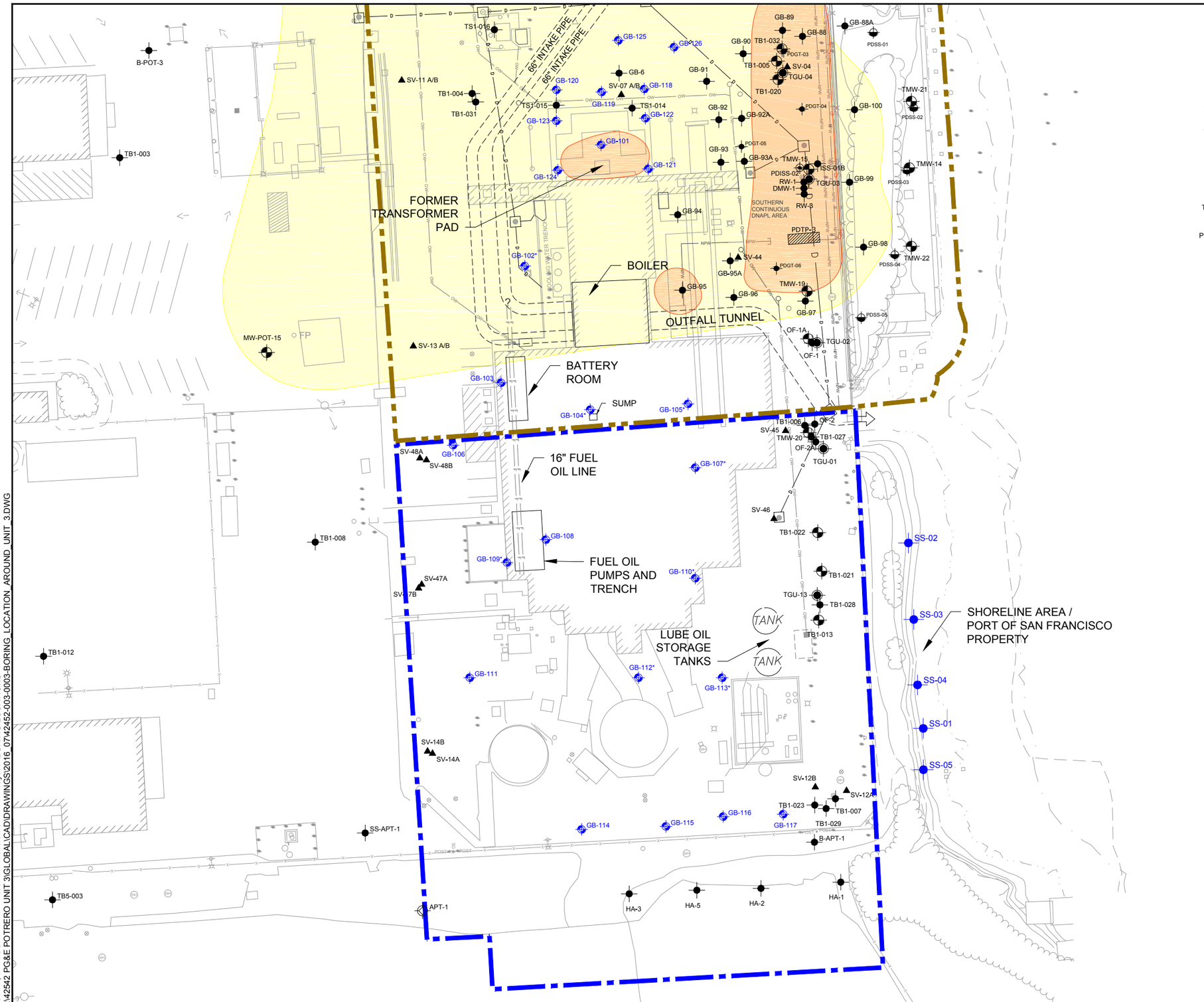
-- = Not analyzed for
< = Analyte was not detected at the given detection limit.
bgs = Below ground surface
FD = Field duplicate
P = Primary sample

NOTES:

All analytical results are dry weight results in micrograms per cubic meter ($\mu g/m^3$).
Detected results are presented in **bold**.

UNIT 3 AREA

(Figures and Tables from "Draft Former Unit 3 Power Generation Facility Investigation Report and Human Health Risk Assessment, Potrero Power Plant Site, San Francisco, California," dated October 2016, prepared by Haley & Aldrich, Inc.)



LEGEND

- GB-101 — UPLAND BORING LOCATION - CURRENT INVESTIGATION
- SS-02 — SHORELINE SURFICIAL SAMPLE LOCATION

HISTORICAL SAMPLE LOCATIONS

- GB-96 — UPLAND BORING LOCATION
- TGU-10 — UPLAND TarGOST LOCATION
- SV-01 — SOIL GAS SAMPLING LOCATION
- APT-1 — DECOMMISSIONED MONITORING WELL LOCATION
- TMW-25 — MONITORING WELL LOCATION
- PDSS-01 — SURFICAL SOIL SAMPLE LOCATION(0-2' BGS)
- PDTP-2 — PRE-DESIGN INVESTIGATION TEST PIT LOCATION
- UNIT 3 AREA BOUNDARY
- NORTHEAST AREA BOUNDARY
- D — EXISTING STORMWATER DRAINAGE
- FS — EXISTING FIRE SUPPRESSION UTILITIES
- OW — EXISTING OILY WATER LINE
- NPW — EXISTING PROCESS WATER UTILITIES (DECHLORINATION AND SCREEN WASH WATER LINES)
- F — APPROXIMATE LOCATION OF FUEL OIL LINES
- APPROXIMATE LIMITS OF DISCONTINUOUS DNAPL
- APPROXIMATE LIMITS OF CONTINUOUS DNAPL

ABBREVIATIONS:

DNAPL= DENSE NON AQUEOUS PHASE LIQUID
TarGOST ® = TAR-SPECIFIC GREEN OPTICAL SCREENING TOOL

NOTES:

1. LOCATIONS OF PROPOSED BORINGS, TEST PITS, AND SUPPLEMENTAL ISS TREATABILITY SAMPLE LOCATIONS SHOWN ON THIS PLAN ARE APPROXIMATE AND MAY BE MODIFIED BASED ON FIELD CONDITIONS.
2. LOCATIONS NOTED WITH ASTERISK (*) WERE NOT ADVANCED TO THE FILL-BAY MUD INTERFACE DUE TO REFUSAL

N

0 50 100
SCALE IN FEET

HALEY ALDRICH

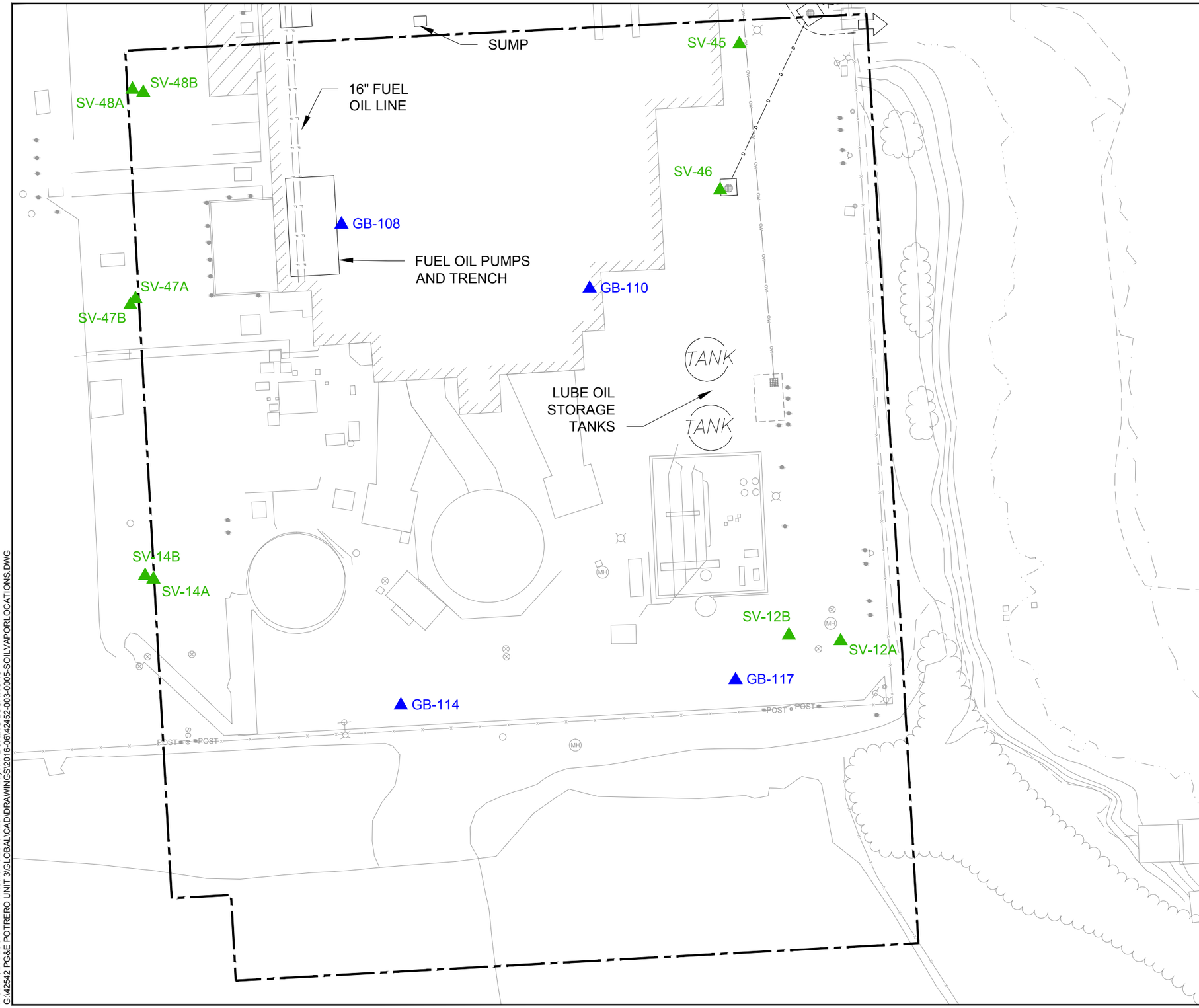
PACIFIC GAS AND ELECTRIC COMPANY (PG&E)
UNIT 3 POWER GENERATION AREA
POTRERO POWER PLANT
SAN FRANCISCO, CALIFORNIA

BORING LOCATIONS IN AND AROUND UNIT 3 AREA

SCALE: AS SHOWN
JULY 2016

FIGURE 3

MOBINI, DARIUSH Printed:7/27/2016 8:28 AM Layout: BORING LOCATIONS
G:\42542 PG&E POTRERO UNIT 3\GLOBAL\CAD\DRAWINGS\2016_07\42452-003-0003-BORING_LOCATION_AROUND_UNIT_3.DWG



LEGEND

- SV-04 ▲ 2015 SOIL GAS SAMPLING LOCATION
- SV-04 ▲ 2009/2010 SOIL GAS SAMPLING LOCATION
- PDTP-2 PRE-DESIGN INVESTIGATION TEST PIT LOCATION
- UNIT 3 AREA BOUNDARY
- D EXISTING STORMWATER DRAINAGE
- FS EXISTING FIRE SUPPRESSION UTILITIES
- OW EXISTING OILY WATER LINE
- NPW EXISTING PROCESS WATER UTILITIES (DECHLORINATION AND SCREEN WASH WATER LINES)
- F APPROXIMATE LOCATION OF FUEL OIL LINES

NOTES:

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE

N

0 30 60

SCALE IN FEET

HALEY ALDRICH

PACIFIC GAS AND ELECTRIC COMPANY (PG&E)
UNIT 3 POWER GENERATION AREA
POTRERO POWER PLANT
SAN FRANCISCO, CALIFORNIA

SOIL VAPOR SAMPLE LOCATIONS-
UNIT 3 AREA

SCALE: AS SHOWN
MAY 2016

FIGURE 6

MOBINI, DARIUSH Printed:5/18/2016 1:23 PM Layout: BORING LOCATIONS
G:\42542 PG&E POTRERO UNIT 3\GLOBAL\CAD\DRAWINGS\2016-06\42452-003-0005-SOILVAPORLOCATIONS.DWG

APPENDIX E TABLE E-1
RESULTS FOR VOLATILE ORGANIC COMPOUNDS IN SOIL
FORMER UNIT 3 POWER GENERATION FACILITY INVESTIGATION AND HUMAN HEALTH RISK ASSESSMENT REPORT
POTRERO POWER PLANT SITE
SAN FRANCISCO, CALIFORNIA

Results reported in micrograms per kilogram (µg/kg)

Location ID	Sample Depth (feet bgs)	Sample Date	Sample Type	Soil Type	Saturated/ Unsaturated	Acetone	Benzene	sec-Butylbenzene	Ethylbenzene	1-Methylethyl-benzene (Cumene)	Methylene Chloride	Naphthalene	n-Propyl-benzene	Styrene	Toluene	1,2,4-TMB	1,3,5-TMB	Xylenes	All Other VOCs
Ecology & the Environment, 1991, Preliminary Endangerment Assessment, Potrero Power Plant, October 16 -- Analytical results reported in dry weight																			
B-APT-1 [1]	5.0	02/25/1991	Primary	Fill	Unsaturated	--	<0.33	--	<0.33	--	--	--	--	--	<0.33	--	--	<1.1	--
	11.5	02/25/1991	Primary	Fill	Saturated	--	<0.40	--	<0.40	--	--	--	--	--	<0.40	--	--	<1.3	--
	15.5	02/25/1991	Primary	Fill	Saturated	--	<0.40	--	<0.40	--	--	--	--	--	<0.40	--	--	<1.4	--
Fluor Daniel GTI, 1998, Phase II Environmental Site Assessment, Potrero Power Plant, June -- Analytical results reported in wet weight																			
TB1-021	15 - 16	03/02/1998	Primary	Fill	Saturated	--	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	ND
	15 - 16	03/02/1998	Duplicate	Fill	Saturated	--	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	ND
	20 - 21	03/02/1998	Primary	Bay Mud	Saturated	--	<5.0	<5.0	<5.0	<5.0	**14**	**49**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	ND
TB1-022	35 - 36	03/04/1998	Primary	Bay Mud	Saturated	--	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	ND
	35 - 36	03/04/1998	Duplicate	Bay Mud	Saturated	--	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	ND
	40 - 41	03/04/1998	Primary	Bay Mud	Saturated	--	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	ND
	45 - 46	03/04/1998	Primary	Bay Mud	Saturated	--	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	ND
	50 - 51	03/04/1998	Primary	Bay Mud	Saturated	--	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	ND
TB1-023	20 - 21	02/23/1998	Primary	Fill	Saturated	--	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	ND
	20 - 21	02/23/1998	Duplicate	Fill	Saturated	--	<5.0	<5.0	<5.0	<5.0	<10	**35**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	ND
	24 - 25	02/23/1998	Primary	Bay Mud	Saturated	--	<500	<500	<500	<500	<1,000	**6,100**	<500	<500	<500	<500	<500	<500	ND
Fluor Daniel GTI, 1998, Phase II Environmental Site Assessment Addendum, Potrero Power Plant, June -- Analytical results reported in wet weight																			
TB1-027	0.0 - 1.0	06/16/1998	Primary	Fill	Unsaturated	--	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	ND
	0.0 - 1.0	06/16/1998	Duplicate	Fill	Unsaturated	--	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	ND
	5.0 - 6.0	06/16/1998	Primary	Fill	Unsaturated	--	<5.0	<5.0	<5.0	<5.0	<10	**6.5**	<5.0	<5.0	<5.0	<5.0	<5.0	**2.8 J**	ND
	5.0 - 6.0	06/16/1998	Duplicate	Fill	Unsaturated	--	<5.0	**4.9 J**	<5.0	<5.0	<10	**11**	<5.0	<5.0	<5.0	**4.3 J**	**2.8 J**	**4.6 J**	ND
	10 - 11	06/16/1998	Primary	Fill	Unsaturated	--	<5.0	<5.0	<5.0	<5.0	<10	**3.0 J**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	ND
TB1-028	0.0 - 1.0	06/16/1998	Primary	Fill	Unsaturated	--	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**2.8 J**	ND
	0.0 - 1.0	06/16/1998	Duplicate	Fill	Unsaturated	--	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	ND
	8.0 - 9.0	06/16/1998	Primary	Fill	Saturated	--	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	ND
	9.0 - 10	06/16/1998	Primary	Fill	Saturated	--	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	ND
TB1-029	0.0 - 1.0	06/16/1998	Primary	Fill	Unsaturated	--	<5.0	<5.0	**2.6 J**	**4.1 J**	<10	**3.2 J**	**3.8 J**	<5.0	<5.0	**20**	**11**	**21**	ND
	2.0 - 3.0	06/16/1998	Primary	Fill	Unsaturated	--	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	**2.8 J**	<5.0	<5.0	ND
	5.0 - 6.0	06/16/1998	Primary	Fill	Unsaturated	--	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	ND
	8.0 - 9.0	06/16/1998	Primary	Fill	Saturated	--	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	ND
	8.0 - 9.0	06/16/1998	Duplicate	Fill	Saturated	--	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	ND
	15 - 16	06/16/1998	Primary	Fill	Saturated	--	<10	<10	**13**	<10	<20	**200**	<10	<10	<10	<10	<10	<10	ND
	15 - 16	06/16/1998	Duplicate	Fill	Saturated	--	<10	<10	**16**	<10	<20	**240**	<10	<10	<10	<10	<10	<10	ND
Geomatrix Consultants, Inc., 2008 Report of Results -- Shoreline Investigation, Pacific Gas and Electric Company, Potrero Power Plant, San Francisco, California, March 31 [2]																			
OF-2	19 - 19.5	07/18/2006	Primary	Fill	Saturated	--	<5.0	--	<5.0	--	--	--	--	--	<5.0	--	--	<5.0	--
	20 - 20.5	07/18/2006	Primary	Bay Mud	Saturated	--	<5.0	--	<5.0	--	--	--	--	--	<5.0	--	--	<5.0	--
Haley & Aldrich, 2014, Investigation of PG&E ZA-1 Line Alightment, Unit 3 Power Generation Area, Potrero Power Plant Site, San Francisco, California, October 20																			
HA-1	24 - 25	07/29/2014	Primary	Bay Mud	Saturated	--	**72,000**	--	**110,000**	--	--	--	--	--	**56,000**	--	--	**91,000**	--
HA-2	32 - 33	07/29/2014	Primary	Bay Mud	Saturated	--	**9,800**	--	**35,000**	--	--	--	--	--	**11,000**	--	--	**32,000**	--
Haley & Aldrich, 2015 [3] (Analytical results reported in wet weight)																			
GB-106	2.0 - 2.7	11/30/2015	Primary	Fill	Unsaturated	<41	<4.1	<4.1	<4.1	--	<8.2	<8.2	<4.1	<4.1	<4.1	<4.1	<4.1	<8.2	ND
	6.0 - 8.0	11/30/2015	Primary	Fill	Unsaturated	<65	<6.5	<6.5	<6.5	--	<13	<13	<6.5	<6.5	<6.5	<6.5	<6.5	<13	ND
	9.0 - 11.0	11/30/2015	Primary	Fill	Unsaturated	<50	<5.0	<5.0	<5.0	--	<9.9	<9.9	<5.0	<5.0	<5.0	<5.0	<5.0	<9.9	ND
GB-107	4.0 - 8.0	12/03/2015	Primary	Fill	Unsaturated	<52	<5.2	<5.2	<5.2	--	<10	<10	<5.2	<5.2	<5.2	<5.2	<5.2	<10	ND
	8.0 - 11.0	12/03/2015	Primary	Fill	Saturated	<73	<7.3	<7.3	<7.3	--	<15	<15	<7.3	<7.3	<7.3	<7.3	<7.3	<15	ND
GB-108	3.0 - 7.0	12/03/2015	Primary	Fill	Unsaturated	<56	<5.6	<5.6	<5.6	--	<11	<11	<5.6	<5.6	<5.6	<5.6	<5.6	<11	ND
	8.0 - 13.0	12/03/2015	Primary	Fill	Saturated	<41	<4.1	<4.1	<4.1	--	<8.3	<8.3	<4.1	<4.1	<4.1	<4.1	<4.1	<8.3	ND

APPENDIX E TABLE E-1
RESULTS FOR VOLATILE ORGANIC COMPOUNDS IN SOIL
FORMER UNIT 3 POWER GENERATION FACILITY INVESTIGATION AND HUMAN HEALTH RISK ASSESSMENT REPORT
POTRERO POWER PLANT SITE
SAN FRANCISCO, CALIFORNIA

Results reported in micrograms per kilogram (µg/kg)

Location ID	Sample Depth (feet bgs)	Sample Date	Sample Type	Soil Type	Saturated/ Unsaturated	Acetone	Benzene	sec-Butylbenzene	Ethylbenzene	1-Methylethyl-benzene (Cumene)	Methylene Chloride	Naphthalene	n-Propyl-benzene	Styrene	Toluene	1,2,4-TMB	1,3,5-TMB	Xylenes	All Other VOCs
GB-109	1.5 - 4.0	12/07/2015	Primary	Fill	Unsaturated	<59	<5.9	<5.9	<5.9	--	<12	<12	<5.9	<5.9	<5.9	<5.9	<5.9	<12	ND
	4.0 - 8.0	12/07/2015	Primary	Fill	Unsaturated	<46 UJ	<4.6 UJ	<4.6 UJ	<4.6 UJ	--	<9.3	<9.3 UJ	<4.6 UJ	<4.6 UJ	<4.6 UJ	<4.6 UJ	<4.6 UJ	<9.3 UJ	ND
	8.0 - 12.0	12/07/2015	Primary	Fill	Saturated	<37 UJ	<3.7 UJ	<3.7 UJ	<3.7 UJ	--	<7.4	<7.4 UJ	<3.7 UJ	<3.7 UJ	<3.7 UJ	<3.7 UJ	<3.7 UJ	<7.4 UJ	ND
GB-110	3.0 - 8.0	12/04/2015	Primary	Fill	Unsaturated	<48 UJ	<4.8 UJ	<4.8 UJ	<4.8 UJ	--	<9.6	<9.6 UJ	<4.8 UJ	<4.8 UJ	<4.8 UJ	<4.8 UJ	<4.8 UJ	<9.6 UJ	ND
	8.0 - 13.0	12/04/2015	Primary	Fill	Saturated	**83**	<5.7	<5.7	<5.7	--	<11	<11	<5.7	<5.7	<5.7	<5.7	<5.7	<11	ND
GB-111	1.5 - 2.5	11/30/2015	Primary	Fill	Unsaturated	<48	<4.8	<4.8	<4.8	--	<9.5	<9.5	<4.8	<4.8	<4.8	<4.8	<4.8	<9.5	ND
	4.0 - 6.0	11/30/2015	Primary	Fill	Unsaturated	<74	<7.4	<7.4	<7.4	--	<15	<15	<7.4	<7.4	<7.4	<7.4	<7.4	<15	ND
	9.0 - 13.0	11/30/2015	Primary	Fill	Saturated	<61	<6.1	<6.1	<6.1	--	<12	<12	<6.1	<6.1	<6.1	<6.1	<6.1	<12	ND
GB-112	1.5 - 4.0	12/04/2015	Primary	Fill	Unsaturated	**68**	<3.9	<3.9	<3.9	--	<7.9	<7.9	<3.9	<3.9	<3.9	<3.9	<3.9	<7.9	ND
	4.0 - 7.0	12/04/2015	Primary	Fill	Unsaturated	**59 J**	<4.0 UJ	<4.0 UJ	<4.0 UJ	--	<8.1	<8.1 UJ	<4.0 UJ	<4.0 UJ	<4.0 UJ	<4.0 UJ	<4.0 UJ	<8.1 UJ	ND
GB-113	1.0 - 2.0	12/04/2015	Primary	Fill	Unsaturated	<47	<4.7	<4.7	<4.7	--	<9.4	<9.4	<4.7	<4.7	<4.7	<4.7	<4.7	<9.4	ND
GB-113A	4.0 - 8.0	12/07/2015	Primary	Fill	Unsaturated	<47 UJ	<4.7 UJ	<4.7 UJ	<4.7 UJ	--	<9.5	<9.5 UJ	<4.7 UJ	<4.7 UJ	<4.7 UJ	<4.7 UJ	<4.7 UJ	<9.5 UJ	ND
	8.0 - 12.0	12/07/2015	Primary	Fill	Saturated	<56 UJ	<5.6 UJ	<5.6 UJ	<5.6 UJ	--	<11	<11 UJ	<5.6 UJ	<5.6 UJ	<5.6 UJ	<5.6 UJ	<5.6 UJ	<11 UJ	ND
GB-114	1.0 - 2.5	12/01/2015	Primary	Fill	Unsaturated	<43	<4.3	<4.3	<4.3	--	<8.5	<8.5	<4.3	<4.3	<4.3	<4.3	<4.3	<8.5	ND
	5.0 - 7.0	12/01/2015	Primary	Fill	Unsaturated	<52	<5.2	<5.2	<5.2	--	<10	<10	<5.2	<5.2	<5.2	<5.2	<5.2	<10	ND
	8.0 - 13.0	12/01/2015	Primary	Fill	Saturated	<54	<5.4	<5.4	<5.4	--	<11	<11	<5.4	<5.4	<5.4	<5.4	<5.4	<11	ND
GB-115	1.0 - 2.0	12/01/2015	Primary	Fill	Unsaturated	**45**	<4.4	<4.4	**6.6**	--	<8.7	<8.7	<4.4	<4.4	<4.4	<4.4	<4.4	**46**	ND
	4.0 - 8.0	12/01/2015	Primary	Fill	Unsaturated	**58**	<5.8	<5.8	<5.8	--	<12	<12	<5.8	<5.8	<5.8	<5.8	<5.8	**39**	ND
	9.0 - 13.0	12/01/2015	Primary	Fill	Saturated	<70	<7.0	<7.0	<7.0	--	<14	<14	<7.0	<7.0	<7.0	<7.0	<7.0	<14	ND
GB-116	1.0 - 2.5	12/01/2015	Primary	Fill	Unsaturated	**41**	<3.6	<3.6	<3.6	--	<7.2	<7.2	<3.6	<3.6	<3.6	<3.6	<3.6	**22**	ND
	4.5 - 6.5	12/01/2015	Primary	Fill	Unsaturated	**43**	<3.9	<3.9	<3.9	--	<7.9	<7.9	<3.9	<3.9	<3.9	<3.9	<3.9	<7.9	ND
	9.0 - 12.5	12/01/2015	Primary	Fill	Saturated	**73**	<7.2	<7.2	<7.2	--	<14	<14	<7.2	<7.2	<7.2	<7.2	<7.2	<14	ND
GB-117	1.0 - 2.0	12/01/2015	Primary	Fill	Unsaturated	<40	<4.0	<4.0	<4.0	--	<8.0	<8.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	ND
	5.0 - 8.0	12/01/2015	Primary	Fill	Unsaturated	<50	<5.0	<5.0	<5.0	--	<9.9	<9.9	<5.0	<5.0	<5.0	<5.0	<5.0	<9.9	ND
	9.0 - 13.0	12/01/2015	Primary	Fill	Saturated	<47	<4.7	<4.7	<4.7	--	<9.4	<9.4	<4.7	<4.7	<4.7	<4.7	<4.7	<9.4	ND

Notes:
1. Extracted from the 1991 Preliminary Endangerment Assessment report. Validation was applied according to current standards based on the validation reports included (Appendix D)
2. No information regarding if soil samples were reported as wet or dry weight was provided
3. Soil samples were collected by Haley & Aldrich, Inc. and analyzed by TestAmerica Laboratories of Pleasanton, California for volatile organic compounds (VOCs) using USEPA Method 8260B. The sampling methodology and analytical results are discussed in Section 2 of the main report.

Abbreviations:
bold indicates the compound was detected in the sample.
"--" indicates the compound was not analyzed.
"<" indicates the compound was not detected above the laboratory reporting limit shown
"J" indicates the concentration is approximate due to quality assurance/quality control issues.
"UJ" indicates that the compound was not detected; however, the reporting limit is approximate due to quality assurance/quality control issues
bgs = below ground surface
ND = not detected (reporting limit varies)
USEPA = United States Environmental Protection Agency

APPENDIX E TABLE E-2
RESULTS FOR POLYCYCLIC AROMATIC HYDROCARBONS IN SOIL
FORMER UNIT 3 POWER GENERATION FACILITY INVESTIGATION AND HUMAN HEALTH RISK ASSESSMENT REPORT
POTRERO POWER PLANT SITE
SAN FRANCISCO, CALIFORNIA

Results reported in micrograms per kilogram (µg/kg)

Location ID	Sample Depth (feet bgs)	Sample Date	Sample Type	Soil Type	Saturated/ Unsaturated	Acenaph-thene	Acenaph-thylene	Anthracene	Benzo[a] anthracene	Benzo[a] pyrene	Benzo[b] fluoranthene	Benzo[g,h,i] perylene	Benzo[k] fluoranthene	Chrysene	Dibenz(a,h) anthracene	Fluoran-thene	Fluorene	Indeno [1,2,3-cd] pyrene	1-methyl-napthelene	2-methyl-napthelene	Naphthalene	Phenan-threne	Pyrene	BaPe [4]
Benzo(a)Pyrene Potency Equivalent Factor (PEF)						--	--	--	0.1	1.0	0.1	--	0.01	0.001	1.0	--	--	0.1	--	--	--	--	--	--
Ecology & the Environment, 1991, Preliminary Endangerment Assessment, Potrero Power Plant, October 16 -- Analytical results reported in dry weight																								
B-APT-1 [1]	5.0	02/25/1991	Primary	Fill	Unsaturated	<540	<540	<54	<54	<54	<54	<140	<54	<54	<140	<140	<54	<54	--	--	<540	<54	<140	105
	11.5	02/25/1991	Primary	Fill	Saturated	36,000	<6,700	5,100	11,000	27,000	11,000	18,000	4,000	13,000	13,000	43,000	4,800	10,000	--	--	20,000	23,000	62,000	43,300
	15.5	02/25/1991	Primary	Fill	Saturated	<3,400	<3,400	<340	920	<340	<340	<840	<340	930	<840	6,400	<340	<340	--	--	<3,400	1,600	5,400	719
Fluor Daniel GTI, 1998, Phase II Environmental Site Assessment, Potrero Power Plant, June -- Analytical results reported in wet weight																								
TB1-006	0.0 - 1.0	10/14/1997	Primary	Fill	Unsaturated	<1,000	<2,000	2,240	5,850	12,600	8,960	9,980	3,750	7,780	2,030	31,600	<1,000	9,690	--	--	<2,000	8,660	21,400	17,100
	5.0 - 6.0	10/14/1997	Primary	Fill	Unsaturated	<2,000	10,300	9,120	11,400	10,900	6,150	3,750	3,510	13,600	3,500	41,400	8,460	5,020	--	--	10,300	41,600	27,000	16,700
	10 - 11	10/14/1997	Primary	Fill	Saturated	<1,000	2,160	2,340	4,350	7,210	4,880	6,820	2,120	3,120	<500	13,900	<1,000	5,460	--	--	<2,000	7,660	16,500	8,950
TB1-007	0.0 - 1.0	10/13/1997	Primary	Fill	Unsaturated	<500	<1,000	512	1,430	2,690	2,060	2,390	964	762	<250	7,360 J	<500	2,300	--	--	<1,000	2,320	5,150	3,400
	2.0 - 3.0	10/13/1997	Primary	Fill	Unsaturated	<1,000	<2,000	2,280	3,800	8,980	6,330	7,200	2,540	5,020	626	23,800 J	<1,000	7,050	--	--	4,760	11,300	15,800	11,400
	5.0 - 6.0	10/13/1997	Primary	Fill	Unsaturated	<100	<200	<100	<100	149	117	118	<100	105	<50	376 J	<100	112	--	--	<200	<100	256	202
	8.0 - 9.0	10/13/1997	Primary	Fill	Unsaturated	<600	6,070 J	4,460 J	9,890 J	13,900 J	7,780 J	4,830 J	4,670 J	4,820 J	3,490 J	29,200 J	<600	5,820 J	--	--	9,610 J	10,800 J	12,900 J	19,800
	15 - 16	10/13/1997	Primary	Fill	Saturated	<1,500	6,160	12,400	14,000	18,100	9,220	6,740	4,120	8,420	1,510	43,200 J	6,570	7,310	--	--	<3,000	27,400	52,500	22,700
TB1-013	0.0 - 1.0	10/13/1997	Primary	Fill	Unsaturated	<100	<200	<100	<100	<50	<100	<100	<100	<100	<50	<100	<100	<60	--	--	<200	<100	<100	64
	5.0 - 6.0	10/13/1997	Primary	Fill	Unsaturated	<300	<600	<300	<300	434 J	<300	<300	<300	<300	<150	515 J	<300	<180	--	--	<600	545 J	<300	550
	5.0 - 6.0	10/13/1997	Duplicate	Fill	Unsaturated	<300	<600	<300	<300	425 J	314 J	455 J	<300	<300	<150	726 J	<300	<180	--	--	<600	401 J	985 J	557
	9.0 - 10	10/13/1997	Primary	Fill	Saturated	<6,000	17,500	40,000	40,400	46,600	29,900	25,300	15,300	21,200	<3,000	134,000 J	<6,000	28,100	--	--	<12,000	96,600	143,000	58,100
Fluor Daniel GTI, 1998, Phase II Environmental Site Assessment Addendum, Potrero Power Plant, June -- Analytical results reported in wet weight																								
TB1-021	15 - 16	03/02/1998	Primary	Fill	Saturated	140 J	<4,000	170 J	560 J	270 J	190 J	<200	<200	280 J	<100	1,200 J	120 J	<120	--	--	200	740 J	760 J	402
	15 - 16	03/02/1998	Duplicate	Fill	Saturated	<1,000	<20,000	<1,000	1,100 J	1,900 J	970 J	810 J	<1,000	1,200 J	<500	3,600 J	<1,000	870	--	--	<1,000	2,000 J	3,100 J	2,450
	20 - 21	03/02/1998	Primary	Bay Mud	Saturated	<100	<2,000	<100	<100	<50	<100	<100	<100	<100	<50	<100	<100	<60	--	--	230	<100	<100	64
TB1-022	35 - 36	03/04/1998	Primary	Bay Mud	Saturated	<100	<2,000	<100	<100	<50	<100	<100	<100	<100	<50	<100	<100	<60	--	--	<100	<100	<100	64
	35 - 36	03/04/1998	Duplicate	Bay Mud	Saturated	<100	<2,000	<100	<100	<50	<100	<100	<100	<100	<50	<100	<100	<60	--	--	<100	<100	<100	64
	40 - 41	03/04/1998	Primary	Bay Mud	Saturated	<100	<2,000	<100	<100	<50	<100	<100	<100	<100	<50	<100	<100	<60	--	--	<100	<100	<100	64
	45 - 46	03/04/1998	Primary	Bay Mud	Saturated	<100	<2,000	<100	<100	<50	<100	<100	<100	<100	<50	<100	<100	<60	--	--	<100	<100	<100	64
	50 - 51	03/04/1998	Primary	Bay Mud	Saturated	<100	<2,000	<100	<100	<50	<100	<100	<100	<100	<50	<100	<100	<60	--	--	<100	<100	<100	64
TB1-023	20 - 21	02/23/1998	Primary	Fill	Saturated	200	<2,000	290	470	510 J	290	230	160	470	58	1,600 J	190	230 J	--	--	<100	930 J	940 J	669
	20 - 21	02/23/1998	Duplicate	Fill	Saturated	<100	<2,000	<100	<100	53 J	<100	<100	<100	<100	<50	100 J	<100	34 J	--	--	<100	72 J	87 J	92
	24 - 25	02/23/1998	Primary	Bay Mud	Saturated	650	4,900	7,700	4,500	4,000 J	2,100	1,600	1,300	4,300	530	20,000 J	9,100	1,500 J	--	--	10,000	23,000 J	8,300 J	5,360
Geomatrix Consultants, Inc., 2008 Report of Results -- Shoreline Investigation, Pacific Gas and Electric Company, Potrero Power Plant, San Francisco, California, March 31 [2]																								
OF-2	19 - 19.5	07/18/2006	Primary	Fill	Saturated	54	920	830	17,000	18,000	18,000	8,700	5,600	16,000	2,500	240	250	9,500	150	360	880	450	45,000	25,000
	20 - 20.5	07/18/2006	Primary	Bay Mud	Saturated	240	1,700	18,000	21,000	18,000	17,000	7,900	5,000	21,000	900	48,000	620	8,600	110	200	730	24,000	43,000	23,600
Haley & Aldrich, 2014, Investigation of PG&E ZA-1 Line Alightment, Unit 3 Power Generation Area, Potrero Power Plant Site, San Francisco, California, October 20 (Analytical results reported in wet weight)																								
HA-1	24 - 25	07/29/2014	Primary	Bay Mud	Saturated	440,000	170,000	390,000	350,000	430,000	280,000	250,000	220,000	370,000	47000	960,000	320,000	200,000	--	--	2,200,000	1,700,000	1,200,000	563,000
HA-2	32 - 33	07/29/2014	Primary	Bay Mud	Saturated	120,000	15,000	94,000	71,000	71,000	41,000	31,000	39,000	75,000	7,800	150,000	80,000	27,000	--	--	330,000	300,000	200,000	93,200
Haley & Aldrich, 2015 [3] (Analytical results reported in wet weight)																								
GB-106	2.0 - 2.7	11/30/2015	Primary	Fill	Unsaturated	<49	<49	<49	<49	<49	<49	<49	<49	<49	<49	<49	<49	<49	--	--	<49	<49	<49	57
	6.0 - 8.0	11/30/2015	Primary	Fill	Unsaturated	<50	<50	<50	56	120	150	140	61	65	<50	73	<50	100	--	--	<50	52	75	180
	9.0 - 11.0	11/30/2015	Primary	Fill	Unsaturated	<4.9	<4.9	<4.9	6.3	13	13	14	5.4	6.1	<4.9	5.0	<4.9	9.3	--	--	<4.9	<4.9	6.2	18
GB-107	4.0 - 8.0	12/03/2015	Primary	Fill	Unsaturated	<500	640	1,300	4,300	6,600	7,600	3,400	3,400	5,300	550	12,000	<500	2,900	--	--	<500	7,700	15,000	8,700
	8.0 - 11.0	12/03/2015	Primary	Fill	Saturated	<490	1,400	2,800	6,500	8,700	10,000	3,800	3,600	6,500	950	13,000	800	3,100	--	--	<490	10,000	15,000	12,000
GB-108	3.0 - 7.0	12/03/2015	Primary	Fill	Unsaturated	570	<250	1,400	11,000	19,000	19,000	14,000	5,900	11,000	3,600	10,000	<250	11,000	--	--	320	4,100	14,000	27,000
	8.0 - 13.0	12/03/2015	Primary	Fill	Saturated	<99	<99	130	810	1,500	1,600	700	650	820	210	800	<99	620	--	--	610	360	990	2,000
GB-109	1.5 - 4.0	12/07/2015	Primary	Fill	Unsaturated	1,400	770	3,600	9,600	13,000	14,000	6,300	6,100	12,000	1,400	23,000	1,000	5,900	--	--	1,300	20,000	31,000	17,000
	4.0 - 8.0	12/07/2015	Primary	Fill	Unsaturated	<99 UJ	250 J	120 J	810 J	1,700 J	2,200 J	2,000 J	650 J	1,300 J	250 J	3,000 J	<99 UJ	1,600 J	--	--	<99 UJ	1,400 J	3,600 J	2,419 J
	8.0 - 12.0	12/07/2015	Primary	Fill	Saturated	<4.9 UJ	<4.9 UJ	<4.9 UJ	39 J	89 J	79 J	87 J	39 J	43 J	21 J	33 J	<4.9 UJ	65 J	--	--	<4.9 UJ	15 J	46 J	129 J
GB-110	3.0 - 8.0	12/04/2015	Primary	Fill	Unsaturated	<49 UJ	<49 UJ	110 J	420 J	490 J	570 J	260 J	210 J	440 J	59 J	850 J	<49 UJ	220 J	--	--	<49 UJ	490 J	1,100 J	673 J
	8.0 - 13.0	12/04/2015	Primary	Fill	Saturated	270	630	1,600	5,600	7,700	8,200	3,500	3,000	6,100	1,100	8,700	500	3,100	--	--	450	5,700	10,000	11,000
GB-111	1.5 - 2.5	11/30/2015	Primary	Fill	Unsaturated	<99	160	150	1,000	1,100	2,200	770	920	1,300	270	1,300	<99	730	--	--	<99	500	1,300	1,800
	4.0 - 6.0	11/30/2015	Primary	Fill	Unsaturated	54	<50	96	730	1,600	1,500	870	720	770	250	610	<50	730	--	--	<50	260	750	2,200
	9.0 - 13.0	11/30/2015	Primary	Fill	Saturated	<5.0	<5.0	<5.0	5.1	13	13	12	<5.0	6.5	<5.0	5.5	<5.0	8.3	--	--	<5.0	<5.0	8.6	18
GB-112	1.5 - 4.0	12/04/2015	Primary	Fill	Unsaturated	<49	<49	58	280	540	530	450	260	340	110	450	<49	360	--	--	<49	210	520	770
	4.0 - 7.0	12/04/2015	Primary	Fill	Unsaturated	64 J	90 J	190 J	1,000 J	2,000 J	1,900 J	1,400 J	850 J	1,100 J	330 J	1,500 J	<50 UJ	1,100 J	--	--	170 J	790 J	1,800 J	2,740 J
GB-113	1.0 - 2.0	12/04/2015	Primary	Fill	Unsaturated	<99	220	100	610	1,000	1,000	690	390	720	130	1,300	<99	530	--	--	<99	510	1,800	1,300
GB-113A	4.0 - 8.0	12/07/2015	Primary	Fill	Unsaturated	<4.9 UJ	<4.9 UJ	4.9 J	22 J	26 J	28 J	19 J	14 J	27 J	5.4 J	31 J	<4.9 UJ	15 J	--	--	<4.9 UJ	18 J	39 J	38 J
	8.0 - 12.0	12/07/2015	Primary	Fill	Saturated	110 J	1,400 J	2,700 J	6,700 J	7,100 J	7,100 J	3,300 J	3,300 J	8,200 J	930 J	14,000 J	1,300 J	3,000 J	--	--	560 J	15,000 J	18,000 J	9,751 J

APPENDIX E TABLE E-2
RESULTS FOR POLYCYCLIC AROMATIC HYDROCARBONS IN SOIL
FORMER UNIT 3 POWER GENERATION FACILITY INVESTIGATION AND HUMAN HEALTH RISK ASSESSMENT REPORT
POTRERO POWER PLANT SITE
SAN FRANCISCO, CALIFORNIA

Results reported in micrograms per kilogram (µg/kg)

Location ID	Sample Depth (feet bgs)	Sample Date	Sample Type	Soil Type	Saturated/ Unsaturated	Acenaph-thene	Acenaph-thylene	Anthracene	Benzo[a] anthracene	Benzo[a] pyrene	Benzo[b] fluoranthene	Benzo[g,h,i] perylene	Benzo[k] fluoranthene	Chrysene	Dibenz(a,h) anthracene	Fluoran-thene	Fluorene	Indeno [1,2,3-cd] pyrene	1-methyl-napthelene	2-methyl-napthelene	Naphthalene	Phenan-threne	Pyrene	BaPe [4]
GB-114	1.0 - 2.5	12/01/2015	Primary	Fill	Unsaturated	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	**100**	<100	<100	--	--	<100	<100	**130**	**120**
	5.0 - 7.0	12/01/2015	Primary	Fill	Unsaturated	**150**	**620**	**930**	**1,800**	**1,800**	**2,300**	**830**	**860**	**1,800**	**230**	**3,800**	**360**	**680**	--	--	**440**	**4,000**	**3,900**	**2,500**
	8.0 - 13.0	12/01/2015	Primary	Fill	Saturated	<50	<50	<50	**340**	**630**	**620**	**430**	**270**	**450**	**60**	**670**	<50	**320**	--	--	<50	**190**	**910**	**820**
GB-115	1.0 - 2.0	12/01/2015	Primary	Fill	Unsaturated	<50	**57**	<50	**210**	**270**	**340**	**110**	**150**	**270**	<50	**310**	<50	**87**	--	--	<50	**180**	**400**	**360**
	4.0 - 8.0	12/01/2015	Primary	Fill	Unsaturated	<100	<100	<100	**230**	**270**	**340**	**120**	**140**	**290**	<100	**360**	<100	<100	--	--	<100	**270**	**430**	**380**
	9.0 - 13.0	12/01/2015	Primary	Fill	Saturated	<200	**320**	**890**	**3,900**	**6,500**	**6,900**	**3,800**	**2,600**	**4,600**	**540**	**8,700**	**250**	**2,900**	--	--	**300**	**3,500**	**11,000**	**8,400**
GB-116	1.0 - 2.5	12/01/2015	Primary	Fill	Unsaturated	<200	<200	<200	**400**	**580**	**780**	**320**	**320**	**570**	<200	**760**	<200	**250**	--	--	<200	**300**	**1,100**	**830**
	4.5 - 6.5	12/01/2015	Primary	Fill	Unsaturated	**370**	**230**	**690**	**1,400**	**1,500**	**1,800**	**490**	**620**	**1,400**	**160**	**2,200**	**320**	**440**	--	--	**360**	**2,500**	**2,800**	**2,000**
	9.0 - 12.5	12/01/2015	Primary	Fill	Saturated	**350**	**1,400**	**2,000**	**4,300**	**6,100**	**6,100**	**2,700**	**2,300**	**5,100**	**480**	**8,100**	**1,100**	**2,100**	--	--	**780**	**7,400**	**12,000**	**7,900**
GB-117	1.0 - 2.0	12/01/2015	Primary	Fill	Unsaturated	<100	<100	<100	**110**	**120**	**160**	<100	<100	**120**	<100	**150**	<100	<100	--	--	<100	<100	**210**	**200**
	5.0 - 8.0	12/01/2015	Primary	Fill	Unsaturated	<50	**76**	**72**	**300**	**480**	**660**	**250**	**220**	**370**	**58**	**640**	<50	**200**	--	--	<50	**380**	**790**	**660**
	9.0 - 13.0	12/01/2015	Primary	Fill	Saturated	**200**	**460**	**850**	**2,100**	**2,400**	**2,500**	**820**	**830**	**2,600**	**210**	**3,400**	**480**	**680**	--	--	**360**	**2300**	**4,500**	**3,100**

Notes:
1. Extracted from the 1991 Preliminary Endangerment Assessment report. Validation was applied according to current standards based on the validation reports included (Appendix D).
2. No information regarding if soil samples were reported as wet or dry weight was provided.
3. Soil samples were collected by Haley & Aldrich, Inc. and analyzed by TestAmerica Laboratories of Pleasanton, California for aromatic hydrocarbons using USEPA Method 8270C SIM. The sampling methodology and analytical results are discussed in Section 2 of the main report.
4. The benzo(a)pyrene equivalent (BaPe) is calculated as the summation of the potency equivalency factors (PEFs) multiplied by the concentrations of the carcinogenic PAHs (DTSC, 2015). One-half of the reporting limit was used in the BaPe concentration calculations for non-detect results.

Abbreviations:
bold indicates the compound was detected in the sample.
"--" indicates the compound was not analyzed.
"<" indicates the compound was not detected above the laboratory reporting limit shown.
"J" indicates the concentration is approximate due to quality assurance/quality control issues.
"UJ" indicates that the compound was not detected; however, the reporting limit is approximate due to quality assurance/quality control issues.
bgs = below ground surface
USEPA = United States Environmental Protection Agency

References:
California Department of Toxic Substances Control (DTSC), 2009, Use of the Northern and Southern California Polynuclear Aromatic Hydrocarbon (PAH) Studies in the Manufactured Gas Plant Site Cleanup Process, July 1.
California Department of Toxic Substances Control (DTSC), 2015, Preliminary Endangerment Assessment Guidance Manual, Revised, October.

APPENDIX E TABLE E-3
RESULTS FOR ALKYLATED POLYCYCLIC AROMATIC HYDROCARBONS IN SOIL
FORMER UNIT 3 POWER GENERATION FACILITY INVESTIGATION AND HUMAN HEALTH RISK ASSESSMENT REPORT
POTRERO POWER PLANT SITE
SAN FRANCISCO, CALIFORNIA

Results reported in micrograms per kilogram (µg/kg)

Location ID	Sample Depth (feet bgs)	Sample Date	Sample Type	Soil Type	Saturated/ Unsaturated	2-Methyl-naphthalene	1-Methyl-naphthalene	1,1'-Biphenyl	2,6-Dimethyl-naphthalene	2,3,5-Trimethyl-naphthalene	Naphthalene	C1-Naphthalenes	C2-Naphthalenes	C3-Naphthalenes	C4-Naphthalenes	Acenaphthylene	Acenaphthene	Fluorene	C1-Fluorenes	C2-Fluorenes	C3-Fluorenes
Benzo(a)Pyrene Potency Equivalent Factor (PEF)						--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Haley & Aldrich, 2014, Investigation of PG&E ZA-1 Line Alightment, Unit 3 Power Generation Area, Potrero Power Plant Site, San Francisco, California, October 20 (Analytical results reported in wet weight)																					
HA-1	24 - 25	07/29/2014	Primary	Bay Mud	Saturated	**610,000**	**360,000**	**180,000**	**110,000**	<94,000	**2,500,000**	**630,000 J**	**440,000 J**	**99,000 J**	<94,000	**200,000**	**580,000**	**410,000**	<94,000	<94,000	<94,000
HA-2	32 - 33	07/29/2014	Primary	Bay Mud	Saturated	**460,000**	**260,000**	**97,000**	**82,000**	<67,000	**1,200,000**	**460,000 J**	**320,000 J**	**79,000 J**	<67,000	<67,000	**430,000**	**230,000**	<67,000	<67,000	<67,000

Location ID	Sample Depth (feet bgs)	Sample Date	Sample Type	Soil Type	Saturated/ Unsaturated	Dibenzothiopene	C1-Dibenzo-thiophenes	C2-Dibenzo-thiophenes	C3-Dibenzo-thiophenes	C4-Dibenzo-thiophenes	Anthracene	Phenanthrene	C1-Phenanthrenes/ Anthracenes	C2-Phenanthrenes/ Anthracenes	C3-Phenanthrenes/ Anthracenes	C4-Phenanthrenes/ Athracenes	1-Methyl-phenanthrene	Fluoranthene	Pyrene	C1-Fluoranthenes/ Pyrenes	C2-Fluoranthenes/ Pyrenes
Benzo(a)Pyrene Potency Equivalent Factor (PEF)						--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Haley & Aldrich, 2014, Investigation of PG&E ZA-1 Line Alightment, Unit 3 Power Generation Area, Potrero Power Plant Site, San Francisco, California, October 20 (Analytical results reported in wet weight)																					
HA-1	24 - 25	07/29/2014	Primary	Bay Mud	Saturated	**160,000**	<94,000	<94,000	<94,000	<94,000	**470,000**	**2,300,000**	**450,000 J**	**100,000 J**	<94,000	<94,000	**140,000**	**1,000,000**	**1,600,000**	**610,000 J**	**120,000 J**
HA-2	32 - 33	07/29/2014	Primary	Bay Mud	Saturated	**83,000**	<67,000	<67,000	<67,000	<67,000	**240,000**	**1,100,000**	**270,000 J**	**67,000 J**	<67,000	<67,000	**89,000**	**420,000**	**850,000**	**420,000 J**	**85,000 J**

Location ID	Sample Depth (feet bgs)	Sample Date	Sample Type	Soil Type	Saturated/ Unsaturated	C3-Fluoranthenes/ Pyrenes	Benzo(a) anthracene	Chrysene	C1-Chrysenes	C2-Chrysenes	C3-Chrysenes	C4-Chrysenes	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Benzo(e)pyrene	Benzo(a)pyrene	Perylene	Indeno(1,2,3-cd) pyrene	Dibenz(a,h) anthracene	Benzo(g,h,i) perylene	BaPe [1]
Benzo(a)Pyrene Potency Equivalent Factor (PEF)						--	0.1	0.001	--	--	--	--	0.1	0.01	--	1.0	--	0.1	1.0	--	--
Haley & Aldrich, 2014, Investigation of PG&E ZA-1 Line Alightment, Unit 3 Power Generation Area, Potrero Power Plant Site, San Francisco, California, October 20 (Analytical results reported in wet weight)																					
HA-1	24 - 25	07/29/2014	Primary	Bay Mud	Saturated	<94,000	**430,000**	**530,000**	**160,000 J**	<94,000	<94,000	<94,000	**220,000 J**	**270,000**	**230,000**	**450,000**	**110,000**	**270,000**	<94,000	**360,000**	**592,000**
HA-2	32 - 33	07/29/2014	Primary	Bay Mud	Saturated	<67,000	**200,000**	**250,000**	**88,000 J**	<67,000	<67,000	<67,000	**100,000**	**110,000**	**110,000**	**200,000**	<67,000	**120,000**	<67,000	**140,000**	**277,000**

Note:
1. The benzo(a)pyrene equivalent (BaPe) is calculated as the summation of the potency equivalency factors (PEFs) multiplied by the concentrations of the carcinogenic PAHs (DTSC, 2015). One-half of the reporting limit was used in the BaPe concentration calculations for non-detect results.

Abbreviations:
bold indicates the compound was detected in the sample.
"--" indicates the compound was not analyzed.
"<" indicates the compound was not detected above the laboratory reporting limit shown.
"J" indicates the concentration is approximate due to quality assurance/quality control issues.
bgs = below ground surface

Reference:
California Department of Toxic Substances Control (DTSC), 2015, Preliminary Endangerment Assessment Guidance Manual, Revised, October

APPENDIX E TABLE E-4
RESULTS FOR TOTAL PETROLEUM HYDROCARBONS IN SOIL
FORMER UNIT 3 POWER GENERATION FACILITY INVESTIGATION AND HUMAN HEALTH RISK ASSESSMENT REPORT
POTRERO POWER PLANT SITE
SAN FRANCISCO, CALIFORNIA

Results reported in milligrams per kilogram (mg/kg)

Location ID	Sample Depth (feet bgs)	Sample Date	Sample Type	Soil Type	Saturated/ Unsaturated	TEPH	TPHd	TPHmo
Ecology & the Environment, 1991, Preliminary Endangerment Assessment, Potrero Power Plant, October 16 -- Analytical results reported in dry weight								
B-APT-1 [1]	5.0	02/25/1991	Primary	Fill	Unsaturated	<10	<10	--
	11.5	02/25/1991	Primary	Fill	Saturated	<10	<10	--
	15.5	02/25/1991	Primary	Fill	Saturated	<10	<10	--
Fluor Daniel GTI, 1998, Phase II Environmental Site Assessment, Potrero Power Plant, June -- Analytical results reported in wet weight								
TB1-006	0.0 - 1.0	10/14/1997	Primary	Fill	Unsaturated	**800**	--	--
	5.0 - 6.0	10/14/1997	Primary	Fill	Unsaturated	**140**	--	--
	10 -11	10/14/1997	Primary	Fill	Saturated	**962**	--	--
TB1-007	0.0 - 1.0	10/13/1997	Primary	Fill	Unsaturated	**271 J**	--	--
	2.0 - 3.0	10/13/1997	Primary	Fill	Unsaturated	**6,560 J**	--	--
	5.0 - 6.0	10/13/1997	Primary	Fill	Unsaturated	<10	--	--
	8.0 - 9.0	10/13/1997	Primary	Fill	Unsaturated	**2,840 J**	--	--
	15 - 16	10/13/1997	Primary	Fill	Saturated	**1,030 J**	--	--
TB1-013	0.0 - 1.0	10/13/1997	Primary	Fill	Unsaturated	<10	--	--
	5.0 - 6.0	10/13/1997	Primary	Fill	Unsaturated	**530 J**	--	--
	5.0 - 6.0	10/13/1997	Duplicate	Fill	Unsaturated	**244 J**	--	--
	9.0 - 10	10/13/1997	Primary	Fill	Saturated	**527 J**	--	--
Fluor Daniel GTI, 1998, Phase II Environmental Site Assessment Addendum, Potrero Power Plant, June -- Analytical results reported in wet weight								
TB1-021	15 - 16	03/02/1998	Primary	Fill	Saturated	**28 J**	--	--
	15 - 16	03/02/1998	Duplicate	Fill	Saturated	**93 J**	--	--
	20 - 21	03/02/1998	Primary	Bay Mud	Saturated	**2.8 J**	--	--
TB1-022	35 - 36	03/04/1998	Primary	Bay Mud	Saturated	**1.3**	--	--
	35 - 36	03/04/1998	Duplicate	Bay Mud	Saturated	**2.0**	--	--
	40 - 41	03/04/1998	Primary	Bay Mud	Saturated	**4.2**	--	--
	45 - 46	03/04/1998	Primary	Bay Mud	Saturated	**4.0**	--	--
	50 - 51	03/04/1998	Primary	Bay Mud	Saturated	**3.2**	--	--
TB1-023	20 - 21	02/23/1998	Primary	Fill	Saturated	**54 J**	--	--
	20 - 21	02/23/1998	Duplicate	Fill	Saturated	**21 J**	--	--
	24 - 25	02/23/1998	Primary	Bay Mud	Saturated	**490 J**	--	--
Geomatrix Consultants, Inc., 2008 Report of Results -- Shoreline Investigation, Pacific Gas and Electric Company, Potrero Power Plant, San Francisco, California, March 31 [2]								
OF-2	19 - 19.5	07/18/2006	Primary	Fill	Saturated	--	**290 J**	**600 J**
	20 - 20.5	07/18/2006	Primary	Bay Mud	Saturated	--	**170 J**	**340 J**
Haley & Aldrich, 2014, Investigation of PG&E ZA-1 Line Alightment, Unit 3 Power Generation Area, Potrero Power Plant Site, San Francisco, California, October 20								
HA-1	24 - 25	07/29/2014	Primary	Bay Mud	Saturated	--	**27,000**	**18,000**
HA-2	32 - 33	07/29/2014	Primary	Bay Mud	Saturated	--	**5,700**	**3,700**
Haley & Aldrich, 2015 [3] (Analytical results reported in wet weight)								
GB-106	2.0 - 2.7	11/30/2015	Primary	Fill	Unsaturated	--	**130 J-**	**460 J-**
	6.0 - 8.0	11/30/2015	Primary	Fill	Unsaturated	--	**20**	**73**
	9.0 - 11.0	11/30/2015	Primary	Fill	Unsaturated	--	**14**	<50
GB-107	4.0 - 8.0	12/03/2015	Primary	Fill	Unsaturated	--	**170 J-**	**390 J-**
	8.0 - 11.0	12/03/2015	Primary	Fill	Saturated	--	**780**	**1,200**
GB-108	3.0 - 7.0	12/03/2015	Primary	Fill	Unsaturated	--	**56**	**130**
	8.0 - 13.0	12/03/2015	Primary	Fill	Saturated	--	**67**	**180**
GB-109	1.5 - 4.0	12/07/2015	Primary	Fill	Unsaturated	--	**280 J-**	**540 J-**
	4.0 - 8.0	12/07/2015	Primary	Fill	Unsaturated	--	**230 J**	**850 J**
	8.0 - 12.0	12/07/2015	Primary	Fill	Saturated	--	**14 J**	<49 UJ
GB-110	3.0 - 8.0	12/04/2015	Primary	Fill	Unsaturated	--	**480 J**	**1,000 J**
	8.0 - 13.0	12/04/2015	Primary	Fill	Saturated	--	**340 J-**	**640 J-**
GB-111	1.5 - 2.5	11/30/2015	Primary	Fill	Unsaturated	--	**310 J**	**1,000**
	4.0 - 6.0	11/30/2015	Primary	Fill	Unsaturated	--	**190 J-**	**780 J-**
	9.0 - 13.0	11/30/2015	Primary	Fill	Saturated	--	**58**	**100**
GB-112	1.5 - 4.0	12/04/2015	Primary	Fill	Unsaturated	--	**130 J-**	**440 J-**
	4.0 - 7.0	12/04/2015	Primary	Fill	Unsaturated	--	**190 J-**	**580 J-**
GB-113	1.0 - 2.0	12/04/2015	Primary	Fill	Unsaturated	--	**230 J-**	**720 J-**
GB-113A	4.0 - 8.0	12/07/2015	Primary	Fill	Unsaturated	--	**7.0 J**	<50 UJ
	8.0 - 12.0	12/07/2015	Primary	Fill	Saturated	--	**460 J-**	**610 J-**

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POTRERO POWER PLANT SITE
SAN FRANCISCO, CALIFORNIA

Results reported in milligrams per kilogram (mg/kg)

Location ID	Sample Depth (feet bgs)	Sample Date	Sample Type	Soil Type	Saturated/ Unsaturated	TEPH	TPHd	TPHmo
GB-114	1.0 - 2.5	12/01/2015	Primary	Fill	Unsaturated	--	**110 J-**	**410 J-**
	5.0 - 7.0	12/01/2015	Primary	Fill	Unsaturated	--	**980**	**1,500**
	8.0 - 13.0	12/01/2015	Primary	Fill	Saturated	--	**25**	**63**
GB-115	1.0 - 2.0	12/01/2015	Primary	Fill	Unsaturated	--	**260 J-**	**920 J-**
	4.0 - 8.0	12/01/2015	Primary	Fill	Unsaturated	--	**510**	**1,800**
	9.0 - 13.0	12/01/2015	Primary	Fill	Saturated	--	**180 J-**	**410 J-**
GB-116	1.0 - 2.5	12/01/2015	Primary	Fill	Unsaturated	--	**680**	**3,200**
	4.5 - 6.5	12/01/2015	Primary	Fill	Unsaturated	--	**140 J-**	**310 J-**
	9.0 - 12.5	12/01/2015	Primary	Fill	Saturated	--	**370 J-**	**620 J-**
GB-117	1.0 - 2.0	12/01/2015	Primary	Fill	Unsaturated	--	**44**	**180**
	5.0 - 8.0	12/01/2015	Primary	Fill	Unsaturated	--	**56**	**190**
	9.0 - 13.0	12/01/2015	Primary	Fill	Saturated	--	**420 J-**	**660 J-**

Notes:
1. Extracted from the 1991 Preliminary Endangerment Assessment report. Validation was applied according to current standards based on the validation reports included (Appendix D).
2. No information regarding if soil samples were reported as wet or dry weight was provided.
3. Soil samples were collected by Haley & Aldrich, Inc. and analyzed by TestAmerica Laboratories of Pleasanton, California for total petroleum hydrocarbons using USEPA Method 8015M.

Abbreviations:
bold indicates the compound was detected in the sample.
"--" indicates the compound was not analyzed.
"<" indicates the compound was not detected above the laboratory reporting limit shown.
"J" indicates the concentration is approximate, no bias, due to quality assurance/quality control issues.
"J-" indicates the concentration is approximate, biased low, due to quality assurance/quality control issues.
"UJ" indicates that the compound was not detected; however, the reporting limit is approximate due to quality assurance/quality control issues
bgs = below ground surface
TEPH = total extractable petroleum hydrocarbons
TPHd = total petroleum hydrocarbons quantified as diesel
TPHmo = total petroleum hydrocarbons quantified as motor oil
USEPA = United States Environmental Protection Agency

APPENDIX E TABLE E-5
RESULTS FOR METALS IN SOIL
FORMER UNIT 3 POWER GENERATION FACILITY INVESTIGATION AND HUMAN HEALTH RISK ASSESSMENT REPORT
POTRERO POWER PLANT SITE
SAN FRANCISCO, CALIFORNIA

Results reported in milligrams per kilogram (mg/kg)

Location ID	Sample Depth (feet bgs)	Sample Date	Sample Type	Soil Type	Saturated/ Unsaturated	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molyb-denum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
Ecology & the Environment, 1991, Preliminary Endangerment Assessment, Potrero Power Plant, October 16 -- Analytical results reported in dry weight																						
B-APT-1 [1]	5.0	02/25/1991	Primary	Fill	Unsaturated	<6.5	**2.7 J-**	**130**	<0.54	**3.1**	**76**	**13**	**57 J**	**140**	**0.11**	<1.1	**140**	<14	<1.1	<11	**48**	**110**
	11.5	02/25/1991	Primary	Fill	Saturated	<8.0	**2.8 J-**	**53**	<2.7	**3.5**	**460**	**35**	**34 J**	**60**	**0.21**	<1.3	**800**	<17	<1.3	<13	**80**	**130**
	15.5	02/25/1991	Primary	Fill	Saturated	<8.1	**4.0 J-**	**130**	<0.68	**2.6**	**69**	**14**	**34 J**	**78**	**0.46**	<1.4	**160**	<18	<1.4	<14	**47**	**92**
Fluor Daniel GTI, 1998, Phase II Environmental Site Assessment, Potrero Power Plant, June -- Analytical results reported in wet weight																						
TB1-006	0.0 - 1.0	10/14/1997	Primary	Fill	Unsaturated	<6.0	**3.6**	**98.4**	<0.5	<2.0	**220**	**21.6**	**40**	**71.5**	**1.06**	<10	**398**	<1.0	<2.0	<1.0	**43.1**	**75.6**
	5.0 - 6.0	10/14/1997	Primary	Fill	Unsaturated	<6.0	**1.6**	<20	<0.5	<2.0	**22.5**	<5.0	**6.55**	**1.91**	**0.590**	<10	**15.8**	<1.0	<2.0	<1.0	**19.8**	**14.2**
	10 - 11	10/14/1997	Primary	Fill	Saturated	<6.0	**4.9**	**258**	**0.58**	<2.0	**29.9**	**8.77**	**429**	**77.9**	**0.251**	<10	**67.8**	<1.0	<2.0	<1.0	**36.7**	**197**
TB1-007	0.0 - 1.0	10/13/1997	Primary	Fill	Unsaturated	<6.0	**3.0**	**76.2**	<0.5	<2.0	**68.9 J**	**10.2**	**42.9 J**	**35.4 J**	**0.155 J**	<10	**66.6 J**	<1.0	<2.0	<5.0	**39.7**	**65.1**
	2.0 - 3.0	10/13/1997	Primary	Fill	Unsaturated	<6.0	**3.9**	**110**	<0.5	<2.0	**92.9 J**	**15.9**	**42.4 J**	**49.4 J**	**0.503 J**	<10	**156 J**	<1.0	<2.0	<5.0	**44.3**	**80.9**
	5.0 - 6.0	10/13/1997	Primary	Fill	Unsaturated	<6.0	**4.2**	**55.6**	<0.5	<2.0	**149 J**	**11.8**	**57.8 J**	**51.9 J**	**0.401 J**	<10	**148 J**	<1.0	<2.0	<5.0	**42.1**	**74.9**
	8.0 - 9.0	10/13/1997	Primary	Fill	Unsaturated	<6.0	**10.1**	**28.2**	<0.5	<2.0	**733 J**	**38**	**63.3 J**	**594 J**	**0.409 J**	<10	**980 J**	<1.0	<2.0	<5.0	**41.6**	**323**
	15 - 16	10/13/1997	Primary	Fill	Saturated	<6.0	**2.0**	**40.6**	<0.5	<2.0	**535 J**	**46.5**	**59.4 J**	**32.3 J**	<0.05	<10	**1,000 J**	<1.0	<2.0	<5.0	**24.3**	**44.3**
TB1-013	0.0 - 1.0	10/13/1997	Primary	Fill	Unsaturated	<6.0	**2.5**	<20	<0.5	<2.0	**31.4 J**	<5.0	**7.02 J**	**5.36 J**	<0.05	<10	**21.4 J**	<1.0	<2.0	<5.0	**26.3**	**26.9**
	5.0 - 6.0	10/13/1997	Primary	Fill	Unsaturated	<6.0	**4.0**	**102**	<0.5	<2.0	**58.9 J**	**10.2**	**48.2 J**	**89.2 J**	**0.262 J**	<10	**107 J**	<1.0	<2.0	<5.0	**38.4**	**108**
	5.0 - 6.0	10/13/1997	Duplicate	Fill	Unsaturated	<6.0	**3.6**	**113**	<0.5	<2.0	**27.5 J**	<5.0	**23.6 J**	**40.8 J**	**0.149 J**	<10	**28.9 J**	<1.0	<2.0	<5.0	**31.5**	**55.8**
	9.0 - 10	10/13/1997	Primary	Fill	Saturated	<6.0	**3.1**	**104**	<0.5	<2.0	**110 J**	**17.3**	**21 J**	**21.6 J**	<0.05	<10	**181 J**	<1.0	<2.0	<5.0	**29.8**	**38.7**
Haley & Aldrich, 2015 [2] (Analytical results reported in wet weight)																						
GB-106	2.0 - 2.7	11/30/2015	Primary	Fill	Unsaturated	<1.8 R	**4.5**	**94**	<0.35	<0.44	**65**	**11**	**15 J**	**53**	**0.29**	<1.8	**39**	<3.5	<0.88	<1.8	**62**	**52 J-**
	6.0 - 8.0	11/30/2015	Primary	Fill	Unsaturated	<1.9 R	**4.8**	**18**	<0.38	<0.47	**680**	**73**	**10 J**	**8.4**	**0.11**	<1.9	**1,500**	<3.8	<0.94	<1.9	**30**	**28 J-**
	9.0 - 11.0	11/30/2015	Primary	Fill	Unsaturated	<1.4 R	**4.1**	**31**	<0.28	<0.35	**740**	**67**	**14 J**	**1.6**	**0.057**	<1.4	**1,200**	<2.8	<0.7	<1.4	**33**	**30 J-**
GB-107	4.0 - 8.0	12/03/2015	Primary	Fill	Unsaturated	<1.7	**7.7**	**140**	<0.33	**0.42**	**790**	**33**	**110**	**150**	**0.72**	<1.7	**590**	<3.3	<0.83	<1.7	**46**	**270**
	8.0 - 11.0	12/03/2015	Primary	Fill	Saturated	<1.8	**4.1**	**110**	<0.35	<0.44	**500**	**44**	**20**	**14**	**0.11**	<1.8	**890**	<3.5	<0.88	<1.8	**36**	**160**
GB-108	3.0 - 7.0	12/03/2015	Primary	Fill	Unsaturated	<1.7	**5.1**	**120**	<0.35	<0.43	**240**	**35**	**16**	**5.5**	**0.11**	<1.7	**530**	<3.5	<0.87	<1.7	**58**	**36**
	8.0 - 13.0	12/03/2015	Primary	Fill	Saturated	<1.4	<2.8	**56**	<0.28	<0.35	**490**	**54**	**17**	**5.4**	**0.057**	<1.4	**970**	<2.8	<0.7	<1.4	**31**	**36**
GB-109	1.5 - 4.0	12/07/2015	Primary	Fill	Unsaturated	**2.8**	**9.1**	**130**	<0.33	**0.59**	**61**	**10**	**52**	**200**	**0.64**	<1.7	**49**	<3.3	<0.83	<1.7	**50**	**950**
	4.0 - 8.0	12/07/2015	Primary	Fill	Unsaturated	<1.9 UJ	**6.3 J**	**290 J**	<0.37 UJ	<0.46 UJ	**180 J**	**27 J**	**63 J**	**180 J**	**0.43 J**	<1.9 UJ	**410 J**	<3.7 UJ	<0.93 UJ	<1.9 UJ	**44 J**	**230 J**
	8.0 - 12.0	12/07/2015	Primary	Fill	Saturated	<1.6 UJ	<3.2 UJ	**65 J**	<0.32 UJ	<0.4 UJ	**370 J**	**56 J**	**24 J**	**5.0 J**	**0.11 J**	<1.6 UJ	**1,400 J**	<3.2 UJ	<0.81 UJ	<1.6 UJ	**38 J**	**37 J**
GB-110	3.0 - 8.0	12/04/2015	Primary	Fill	Unsaturated	<1.8 UJ	**11 J**	**240 J**	<0.35 UJ	**0.48 J**	**63 J**	**13 J**	**69 J**	**260 J**	**0.25 J+**	**1.9 J**	**100 J**	<3.5 UJ	<0.88 UJ	<1.8 UJ	**42 J**	**220 J**
	8.0 - 13.0	12/04/2015	Primary	Fill	Saturated	**14**	**4.8**	**24**	<0.27	<0.33	**750**	**71**	**18**	**6.0**	**0.25 J+**	<1.3	**1,200**	<2.7	<0.67	<1.3	**32**	**37**
GB-111	1.5 - 2.5	11/30/2015	Primary	Fill	Unsaturated	**1.3 J-**	**9.3**	**60**	<0.085	**0.59**	**63**	**11**	**450 J**	**300**	**7.4**	<0.42	**54**	<0.85	<0.21	<0.42	**68**	**630 J-**
	4.0 - 6.0	11/30/2015	Primary	Fill	Unsaturated	<1.4 R	**5.9**	**110**	<0.29	<0.36	**390**	**34**	**65 J**	**56**	**0.38**	<1.4	**600**	<2.9	<0.71	<1.4	**65**	**110 J-**
	9.0 - 13.0	11/30/2015	Primary	Fill	Saturated	<1.5 R	<2.9	**22**	<0.29	<0.37	**690**	**70**	**13 J**	**2.0**	**0.1**	<1.5	**1,400**	<2.9	<0.74	<1.5	**25**	**30 J-**
GB-112	1.5 - 4.0	12/04/2015	Primary	Fill	Unsaturated	**2.5**	**3.3**	**60**	<0.079	**0.13**	**130**	**14**	**28**	**67**	**0.31 J+**	<0.4	**150**	<0.79	<0.2	<0.4	**31**	**68**
	4.0 - 7.0	12/04/2015	Primary	Fill	Unsaturated	**3.3 J**	**6.9 J**	**120 J**	<0.34 UJ	<0.42 UJ	**220 J**	**20 J**	**84 J**	**99 J**	**1.3 J+**	<1.7 UJ	**370 J**	<3.4 UJ	<0.85 UJ	<1.7 UJ	**34 J**	**170 J**
GB-113	1.0 - 2.0	12/04/2015	Primary	Fill	Unsaturated	**2.5**	**5.3**	**150**	<0.084	**0.23**	**130**	**17**	**39**	**290**	**0.57 J+**	<0.42	**250**	<0.84	**0.62**	<0.42	**29**	**190**
GB-113A	4.0 - 8.0	12/07/2015	Primary	Fill	Unsaturated	<1.8 UJ	**6.9 J**	**370 J**	**0.45 J**	**0.45 J**	**61 J**	**12 J**	**41 J**	**810 J**	**0.69 J**	<1.8 UJ	**41 J**	<3.6 UJ	<0.91 UJ	<1.8 UJ	**39 J**	**320 J**
	8.0 - 12.0	12/07/2015	Primary	Fill	Saturated	<0.43 UJ	**3.5 J**	**530 J**	**0.55 J**	<0.11 UJ	**14 J**	**8.6 J**	**19 J**	**17 J**	**0.13 J**	**0.96 J**	**41 J**	<0.87 UJ	**0.37 J**	<0.43 UJ	**28 J**	**19 J**
GB-114	1.0 - 2.5	12/01/2015	Primary	Fill	Unsaturated	<0.41 UJ	**3.5**	**84 J+**	**0.11**	**0.1**	**45**	**7.2**	**23**	**240**	**0.51 J+**	<0.41	**35**	<0.81	<0.2	<0.41	**41**	**84**
	5.0 - 7.0	12/01/2015	Primary	Fill	Unsaturated	<1.8 UJ	**23**	**40 J+**	<0.36	<0.45	**670**	**70**	**55**	**26**	**0.08 J+**	<1.8	**1,600**	<3.6	<0.9	<1.8	**36**	**42**
	8.0 - 13.0	12/01/2015	Primary	Fill	Saturated	**1.9 J-**	<2.9	**24 J+**	<0.29	<0.37	**810**	**81**	**21**	**4.8**	**0.18 J+**	<1.5	**1,500**	<2.9	<0.74	<1.5	**34**	**28**
GB-115	1.0 - 2.0	12/01/2015	Primary	Fill	Unsaturated	<0.39 UJ	**4.0**	**81 J+**	**0.11**	**0.15**	**65**	**9.8**	**20**	**130**	**0.22 J+**	<0.39	**66**	<0.78	<0.2	<0.39	**44**	**92**
	4.0 - 8.0	12/01/2015	Primary	Fill	Unsaturated	<1.4 UJ	**4.2**	**100 J+**	<0.28	<0.35	**52**	**11**	**21**	**71**	**0.11 J+**	<1.4	**83**	<2.8	<0.7	<1.4	**46**	**70**
	9.0 - 13.0	12/01/2015	Primary	Fill	Saturated	<1.9 UJ	**4.4**	**28 J+**	<0.38	<0.48	**550**	**73**	**36**	**31**	**0.14 J+**	<1.9	**1,100**	<3.8	<0.95	<1.9	**43**	**58**
GB-116	1.0 - 2.5	12/01/2015	Primary	Fill	Unsaturated	<1.5 UJ	**3.9**	**87 J+**	<0.3	<0.37	**68**	**11**	**31**	**77**	**0.26 J+**	<1.5	**93**	<3	<0.75	<1.5	**40**	**66**
	4.5 - 6.5	12/01/2015	Primary	Fill	Unsaturated	<1.3 UJ	**6.9**	**89 J+**	<0.25	<0.32	**180**	**19**	**33**	**180**	**0.24 J+**	<1.3	**290**	<2.5	<0.63	<1.3	**48**	**140**
	9.0 - 12.5	12/01/2015	Primary	Fill	Saturated	**1.5 J-**	**12**	**78 J+**	<0.23	<0.29	**520**	**54**	**61**	**250**	**0.43 J+**	<1.2	**1,000**	<2.3	<0.58	<1.2	**120**	**130**
GB-117	1.0 - 2.0	12/01/2015	Primary	Fill	Unsaturated	**1.4**	**4.5**	**67**	**0.11**	<0.097	**93**	**11**	**21**	**65**	**0.17**	<0.39	**110**	<0.78	<0.19	<1.6	**45**	**62**
	5.0 - 8.0	12/01/2015	Primary	Fill	Unsaturated	<1.8	**5.2**	**110**	<0.35	<0.44	**59**	**13**	**41**	**87**	**0.37**	<1.8	**62**	<3.5	<0.88	<1.8	**56**	**130**
	9.0 - 13.0	12/01/2015	Primary	Fill	Saturated	<1.6	**14**	**510**	**0.85**	<0.4	**350**	**43**	**19**	**9.6**	**0.061**	<1.6	**730**	<3.2	<0.79	<1.6	**43**	**41**

Notes:
1. Extracted from the 1991 Preliminary Endangerment Assessment report. Validation was applied according to current standards based on the validation reports included (Appendix D).
2. Soil samples were collected by Haley & Aldrich, Inc. and analyzed by TestAmerica Laboratories of Pleasanton, California for metals using USEPA Method 6010B/7471A.

Abbreviations:
bold indicates the compound was detected in the sample.
"<" indicates the compound was not detected above the laboratory reporting limit shown.
"J-" indicates the concentration is approximate, biased low, due to quality assurance/quality control issues.
"J" indicates the concentration is approximate, no bias, due to quality assurance/quality control issues.
"J+" indicates the concentration is approximate, biased high, due to quality assurance/quality control issues.
"UJ" indicates that the compound was not detected; however, the reporting limit is approximate due to quality assurance/quality control issues.
"R" indicates the result is rejected due to quality assurance/quality control issues.
bgs = below ground surface
USEPA = United States Environmental Protection Agency

APPENDIX E TABLE E-6
RESULTS FOR POLYCHLORINATED BIPHENYLS IN SOIL
FORMER UNIT 3 POWER GENERATION FACILITY INVESTIGATION AND HUMAN HEALTH RISK ASSESSMENT REPORT
POTRERO POWER PLANT SITE
SAN FRANCISCO, CALIFORNIA

Results reported in micrograms per kilogram (µg/kg)

Location ID	Sample Depth (feet bgs)	Sample Date	Sample Type	Soil Type	Saturated/ Unsaturated	PCB-1016	PCB-1221	PCB-1232	PCB-1242	PCB-1248	PCB-1254	PCB-1260	Total PCBs
Ecology & the Environment, 1991, Preliminary Endangerment Assessment, Potrero Power Plant, October 16 -- Analytical results reported in dry weight													
B-APT-1 [1]	5.0	02/25/1991	Primary	Fill	Unsaturated	<22 UJ	<22 UJ	<22 UJ	<22 UJ	<22 UJ	<22 UJ	<22 UJ	<22 UJ
	11.5	02/25/1991	Primary	Fill	Saturated	--	--	--	--	--	--	--	--
	15.5	02/25/1991	Primary	Fill	Saturated	--	--	--	--	--	--	--	--
Fluor Daniel GTI, 1998, Phase II Environmental Site Assessment, Potrero Power Plant, June -- Analytical results reported in wet weight													
TB1-006	0.0 - 1.0	10/14/1997	Primary	Fill	Unsaturated	<50	<50	<50	<50	<50	<50	**130**	**130**
	5.0 - 6.0	10/14/1997	Primary	Fill	Unsaturated	<50	<50	<50	<50	<50	<50	<50	<50
TB1-007	0.0 - 1.0	10/13/1997	Primary	Fill	Unsaturated	<50	<50	<50	<50	<50	<50	**210**	**210**
	2.0 - 3.0	10/13/1997	Primary	Fill	Unsaturated	<50	<50	<50	<50	<50	<50	**230**	**230**
	5.0 - 6.0	10/13/1997	Primary	Fill	Unsaturated	<50 UJ	<50 UJ	<50 UJ	<50 UJ	<50 UJ	<50 UJ	<50 UJ	<50 UJ
TB1-013	0.0 - 1.0	10/13/1997	Primary	Fill	Unsaturated	<50	<50	<50	<50	<50	<50	<50	<50
	5.0 - 6.0	10/13/1997	Primary	Fill	Unsaturated	<150 UJ	<150 UJ	<150 UJ	<150 UJ	<150 UJ	<150 UJ	<150 UJ	<150 UJ
	5.0 - 6.0	10/13/1997	Duplicate	Fill	Unsaturated	<150 UJ	<150 UJ	<150 UJ	<150 UJ	<150 UJ	<150 UJ	<150 UJ	<150 UJ
Haley & Aldrich, 2015 [2] (Analytical results reported in wet weight)													
GB-106	2.0 - 2.7	11/30/2015	Primary	Fill	Unsaturated	<50	<50	<50	<50	<50	<50	<50	<50
GB-107	4.0 - 8.0	12/03/2015	Primary	Fill	Unsaturated	<49	<49	<49	<49	<49	<49	<49	<49
GB-108	3.0 - 7.0	12/03/2015	Primary	Fill	Unsaturated	<50	<50	<50	<50	<50	<50	<50	<50
GB-110	3.0 - 8.0	12/04/2015	Primary	Fill	Unsaturated	<50 UJ	<50 UJ	<50 UJ	<50 UJ	<50 UJ	<50 UJ	<50 UJ	<50 UJ
GB-111	1.5 - 2.5	11/30/2015	Primary	Fill	Unsaturated	<49 UJ	<49 UJ	<49 UJ	<49 UJ	<49 UJ	**57 J**	<49 UJ	**57 J**
GB-112	1.5 - 4.0	12/04/2015	Primary	Fill	Unsaturated	<50	<50	<50	<50	<50	<50	<50	<50
GB-113	1.0 - 2.0	12/04/2015	Primary	Fill	Unsaturated	<50	<50	<50	<50	<50	<50	**110**	**110**
GB-114	1.0 - 2.5	12/01/2015	Primary	Fill	Unsaturated	<49	<49	<49	<49	<49	<49	<49	<49
GB-115	1.0 - 2.0	12/01/2015	Primary	Fill	Unsaturated	<49	<49	<49	<49	<49	<49	<49	<49
GB-116	1.0 - 2.5	12/01/2015	Primary	Fill	Unsaturated	<49	<49	<49	<49	<49	<49	**210**	**210**
GB-117	1.0 - 2.0	12/01/2015	Primary	Fill	Unsaturated	<240	<240	<240	<240	<240	<240	**410**	**410**

Notes:
1. Extracted from the 1991 Preliminary Endangerment Report report. Validation was applied according to current standards based on the validation reports included (Appendix D).
2. Soil samples were collected by Haley & Aldrich, Inc. and analyzed by TestAmerica Laboratories of Pleasanton, California for polychlorinated biphenyls using USEPA Method 8082.

Abbreviations:
bold indicates the compound was detected in the sample.
"--" indicates the compound was not analyzed.
"<" indicates the compound was not detected above the laboratory reporting limit shown.
"J" indicates the concentration is approximate, no bias, due to quality assurance/quality control issues.
"UJ" indicates that the compound was not detected; however, the reporting limit is approximate due to quality assurance/quality control issues.
bgs = below ground surface
PCBs = polychlorinated biphenyls
USEPA = United States Environmental Protection Agency

APPENDIX E TABLE E-7
RESULTS FOR TOTAL CYANIDE IN SOIL
FORMER UNIT 3 POWER GENERATION FACILITY INVESTIGATION AND HUMAN HEALTH RISK ASSESSMENT REPORT
POTRERO POWER PLANT SITE
SAN FRANCISCO, CALIFORNIA

Results reported in milligrams per kilogram (mg/kg)

Location ID	Sample Depth (feet bgs)	Sample Date	Sample Type	Soil Type	Saturated/ Unsaturated	Total Cyanide
Ecology & the Environment, 1991, Preliminary Endangerment Assessment, Potrero Power Plant, October 16 -- Analytical results reported in dry weight						
B-APT-1 [1]	5.0	02/25/1991	Primary	Fill	Unsaturated	<1.1
	11.5	02/25/1991	Primary	Fill	Saturated	<1.3
	15.5	02/25/1991	Primary	Fill	Saturated	<1.4
Fluor Daniel GTI, 1998, Phase II Environmental Site Assessment, Potrero Power Plant, June -- Analytical results reported in wet weight						
TB1-006	0.0 - 1.0	10/14/1997	Primary	Fill	Unsaturated	<0.5
	5.0 - 6.0	10/14/1997	Primary	Fill	Unsaturated	<0.5
	10 - 11	10/14/1997	Primary	Fill	Saturated	<0.5
TB1-007	0.0 - 1.0	10/13/1997	Primary	Fill	Unsaturated	**0.9**
	2.0 - 3.0	10/13/1997	Primary	Fill	Unsaturated	<0.5
	5.0 - 6.0	10/13/1997	Primary	Fill	Unsaturated	<0.5
	8.0 - 9.0	10/13/1997	Primary	Fill	Unsaturated	<0.5
	15 - 16	10/13/1997	Primary	Fill	Saturated	<0.5
TB1-013	0.0 - 1.0	10/13/1997	Primary	Fill	Unsaturated	<0.5
	5.0 - 6.0	10/13/1997	Primary	Fill	Unsaturated	<0.5
	5.0 - 6.0	10/13/1997	Duplicate	Fill	Unsaturated	<0.5
	9.0 - 10	10/13/1997	Primary	Fill	Saturated	<0.5
Fluor Daniel GTI, 1998, Phase II Environmental Site Assessment Addendum, Potrero Power Plant, June -- Analytical results reported in wet weight						
TB1-021	15 - 16	03/02/1998	Primary	Fill	Saturated	<0.25
	15 - 16	03/02/1998	Duplicate	Fill	Saturated	<0.25
	20 - 21	03/02/1998	Primary	Bay Mud	Saturated	**0.28**
TB1-022	35 - 36	03/04/1998	Primary	Bay Mud	Saturated	<0.25
	35 - 36	03/04/1998	Duplicate	Bay Mud	Saturated	<0.25
	40 - 41	03/04/1998	Primary	Bay Mud	Saturated	<0.25
	45 - 46	03/04/1998	Primary	Bay Mud	Saturated	**0.30**
	50 - 51	03/04/1998	Primary	Bay Mud	Saturated	<0.25
TB1-023	20 - 21	02/23/1998	Primary	Fill	Saturated	<0.25
	20 - 21	02/23/1998	Duplicate	Fill	Saturated	<0.25
	24 - 25	02/23/1998	Primary	Bay Mud	Saturated	<0.25
Haley & Aldrich, 2015 [2] (Analytical results reported in wet weight)						
GB-106	9.0 - 11.0	11/30/2015	Primary	Fill	Unsaturated	**0.1**
GB-107	4.0 - 8.0	12/03/2015	Primary	Fill	Unsaturated	**0.23**
GB-109	4.0 - 8.0	12/07/2015	Primary	Fill	Unsaturated	**0.15 J**
GB-110	3.0 - 8.0	12/04/2015	Primary	Fill	Unsaturated	**0.8 J**
GB-112	1.5 - 4.0	12/04/2015	Primary	Fill	Unsaturated	**0.23**
GB-113A	4.0 - 8.0	12/07/2015	Primary	Fill	Unsaturated	**0.13 J**
GB-114	1.0 - 2.5	12/01/2015	Primary	Fill	Unsaturated	<0.093
GB-117	1.0 - 2.0	12/01/2015	Primary	Fill	Unsaturated	<0.093

Notes:
1. Extracted from the 1991 Preliminary Endangerment Assessment report. Validation was applied according to current standards based on the validation reports included (Appendix D).
2. Soil samples were collected by Haley & Aldrich, Inc. and analyzed by TestAmerica Laboratories of Pleasanton, California for total cyanide using USEPA Method 9012A.

Abbreviations:
bold indicates the compound was detected in the sample.
"<" indicates the compound was not detected above the laboratory reporting limit shown.
"J" indicates the concentration is approximate, no bias, due to quality assurance/quality control issues.
bgs = below ground surface
USEPA = United States Environmental Protection Agency

APPENDIX E TABLE E-8
RESULTS FOR PHENOLS IN SOIL
FORMER UNIT 3 POWER GENERATION FACILITY INVESTIGATION AND HUMAN HEALTH RISK ASSESSMENT REPORT
POTRERO POWER PLANT SITE
SAN FRANCISCO, CALIFORNIA

Results reported in milligrams per kilogram (mg/kg)

Location ID	Sample Depth (feet bgs)	Sample Date	Sample Type	Soil Type	Saturated/ Unsaturated	Total Phenols	2,4-Dinitro-phenol	p-Chloro-m-cresol	2,6-Dichloro-phenol	PCP	2,4,6-Trichloro-phenol	o-Nitro-phenol	o-Cresol	2-Chloro-phenol	p-Nitro-phenol	2,4-Dimethyl-phenol	Phenol	2,4-Dichloro-phenol	4,6-Dinitro-o-cresol	3+4-Methyl-phenol
Ecology & the Environment, 1991, Perliminary Endangerment Assessment, Potrero Power Plant, October 16 -- Analytical results reported in dry weight																				
B-APT-1 [1]	5.0	02/25/1991	Primary	Fill	Unsaturated	<0.50	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11.5	02/25/1991	Primary	Fill	Saturated	<0.50	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	15.5	02/25/1991	Primary	Fill	Saturated	<0.50	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fluor Daniel GTI, 1998, Phase II Environmental Site Assessment, Potrero Power Plant, June -- Analytical results reported in wet weight																				
TB1-006	0.0 - 1.0	10/14/1997	Primary	Fill	Unsaturated	--	<1.6	<0.66	<0.33	<1.6	<0.33	<0.33	<0.33	<0.33	<1.6	<0.33	<0.33	<0.33	<1.6	<0.33
	0.0 - 1.0	10/14/1997	Duplicate	Fill	Unsaturated	--	<16	<6.6	<3.3	<16	<3.3	<3.3	<3.3	<3.3	<16	<3.3	<3.3	<3.3	<16	<3.3
	5.0 - 6.0	10/14/1997	Primary	Fill	Unsaturated	--	<1.6	<0.66	<0.33	<1.6	<0.33	<0.33	<0.33	<0.33	<1.6	<0.33	<0.33	<0.33	<1.6	<0.33
	10 - 11	10/14/1997	Primary	Fill	Saturated	--	<9.6	<4.0	<2.0	<9.6	<2.0	<2.0	<2.0	<2.0	<9.6	<2.0	<2.0	<2.0	<9.6	<2.0
TB1-007	0.0 - 1.0	10/13/1997	Primary	Fill	Unsaturated	--	<16	<6.6	<3.3	<16	<3.3	<3.3	<3.3	<3.3	<16	<3.3	<3.3	<3.3	<16	<3.3
	0.0 - 1.0	10/13/1997	Duplicate	Fill	Unsaturated	--	<1.6	<0.65	<0.33	<1.6	<0.33	<0.33	<0.33	<0.33	<1.6	<0.33	<0.33	<0.33	<1.6	<0.33
	2.0 - 3.0	10/13/1997	Primary	Fill	Unsaturated	--	<16	<6.6	<3.3	<16	<3.3	<3.3	<3.3	<3.3	<16	<3.3	<3.3	<3.3	<16	<3.3
	2.0 - 3.0	10/13/1997	Duplicate	Fill	Unsaturated	--	<1.6	<0.66	<0.33	<1.6	<0.33	<0.33	<0.33	<0.33	<1.6	<0.33	<0.33	<0.33	<1.6	<0.33
	5.0 - 6.0	10/13/1997	Primary	Fill	Unsaturated	--	<1.9	<0.79	<0.40	<1.9	<0.40	<0.40	<0.40	<0.40	<1.9	<0.40	<0.40	<0.40	<1.9	<0.40
	8.0 - 9.0	10/13/1997	Primary	Fill	Unsaturated	--	<160	<66	<33	<160	<33	<33	<33	<33	<160	<33	<33	<33	<160	<33
	8.0 - 9.0	10/13/1997	Duplicate	Fill	Unsaturated	--	<16	<6.6	<3.3	<16	<3.3	<3.3	<3.3	<3.3	<16	<3.3	<3.3	<3.3	<16	<3.3
	15 - 16	10/13/1997	Primary	Fill	Saturated	--	<32	<13	<6.6	<32	<6.6	<6.6	<6.6	<6.6	<32	<6.6	<6.6	<6.6	<32	<6.6
	15 - 16	10/13/1997	Duplicate	Fill	Saturated	--	<3.2	<1.3	<0.66	<3.2	<0.66	<0.66	<0.66	<0.66	<3.2	<0.66	<0.66	<0.66	<3.2	<0.66
TB1-013	0.0 - 1.0	10/13/1997	Primary	Fill	Unsaturated	--	<16	<6.6	<3.3	<16	<3.3	<3.3	<3.3	<3.3	<16	<3.3	<3.3	<3.3	<16	<3.3
	0.0 - 1.0	10/13/1997	Duplicate	Fill	Unsaturated	--	<1.6	<0.66	<0.33	<1.6	<0.33	<0.33	<0.33	<0.33	<1.6	<0.33	<0.33	<0.33	<1.6	<0.33
	5.0 - 6.0	10/13/1997	Primary	Fill	Unsaturated	--	<1.6	<0.65	<0.33	<1.6	<0.33	<0.33	<0.33	<0.33	<1.6	<0.33	<0.33	<0.33	<1.6	<0.33
	5.0 - 6.0	10/13/1997	Duplicate	Fill	Unsaturated	--	<1.6	<0.65	<0.33	<1.6	<0.33	<0.33	<0.33	<0.33	<1.6	<0.33	<0.33	<0.33	<1.6	<0.33
	9.0 - 10	10/13/1997	Primary	Fill	Saturated	--	<3.2	<1.3	<0.66	<3.2	<0.66	<0.66	<0.66	<0.66	<3.2	<0.66	<0.66	<0.66	<3.2	<0.66
	9.0 - 10	10/13/1997	Duplicate	Fill	Saturated	--	<32	<13	<6.6	<32	<6.6	<6.6	<6.6	<6.6	<32	<6.6	<6.6	<6.6	<32	<6.6

Note:
1. Extracted from the 1991 Preliminary Endangerment Assessment report. Validation was applied according to current standards based on the validation reports included (Appendix D).

Abbreviations:
"--" indicates the compound was not analyzed.
"<" indicates the compound was not detected above the laboratory reporting limit shown.
bgs = below ground surface
PCP = pentachlorophenol

APPENDIX E TABLE E-9
RESULTS FOR OTHER CONSTITUENTS IN SOIL
FORMER UNIT 3 POWER GENERATION FACILITY INVESTIGATION AND HUMAN HEALTH RISK ASSESSMENT REPORT
POTRERO POWER PLANT SITE
SAN FRANCISCO, CALIFORNIA

Location ID	Sample Depth (feet bgs)	Sample Date	Sample Type	Soil Type	Saturated/ Unsaturated	Asbestos (%)	Total Solids (%)	pH	Total Residue (%)	Sulfide (mg/kg)	Ammonia (mg/kg)
Ecology & the Environment, 1991, Preliminary Endangerment Assessment, Potrero Power Plant, October 16 -- Analytical results reported in dry weight											
B-APT-1 [1]	5.0	02/25/1991	Primary	Fill	Unsaturated	--	**92**	**9.0**	--	<4.0	**3.8**
	11.5	02/25/1991	Primary	Fill	Saturated	--	**75**	**10**	--	<4.0	**0.63**
	15.5	02/25/1991	Primary	Fill	Saturated	--	**74**	**11**	--	<4.0	**0.84**
Fluor Daniel GTI, 1998, Phase II Environmental Site Assessment, Potrero Power Plant, June -- Analytical results reported in wet weight											
TB1-006	0.0 - 1.0	10/14/1997	Primary	Fill	Unsaturated	<1.0	--	**8.0**	**91.4**	--	--
	5.0 - 6.0	10/14/1997	Primary	Fill	Unsaturated	<1.0	--	**7.8**	**96.8**	--	--
	10 - 11	10/14/1997	Primary	Fill	Saturated	--	--	**8.7**	**77.3**	--	--
TB1-007	0.0 - 1.0	10/13/1997	Primary	Fill	Unsaturated	<1.0	--	**10.7**	**94.5**	--	--
	2.0 - 3.0	10/13/1997	Primary	Fill	Unsaturated	<1.0	--	**8.8**	**91.0**	--	--
	5.0 - 6.0	10/13/1997	Primary	Fill	Unsaturated	<1.0	--	**8.4**	**89.5**	--	--
	8.0 - 9.0	10/13/1997	Primary	Fill	Unsaturated	--	--	**8.2**	**85.3**	--	--
	15 - 16	10/13/1997	Primary	Fill	Saturated	--	--	**8.3**	**76.7**	--	--
TB1-013	0.0 - 1.0	10/13/1997	Primary	Fill	Unsaturated	<1.0	--	**8.1**	**95.3**	--	--
	5.0 - 6.0	10/13/1997	Primary	Fill	Unsaturated	<1.0	--	**10.3**	**93.7**	--	--
	5.0 - 6.0	10/13/1997	Duplicate	Fill	Unsaturated	<1.0	--	**9.8**	**90.1**	--	--
	9.0 - 10	10/13/1997	Primary	Fill	Saturated	--	--	**8.0**	**73.3**	--	--
Haley & Aldrich, 2015 [2] (Analytical results reported in wet weight)											
GB-106	2.0 - 2.7	11/30/2015	Primary	Fill	Unsaturated	<0.25	--	--	--	--	--
	6.0 - 8.0	11/30/2015	Primary	Fill	Unsaturated	**3.50**	--	--	--	--	--
	9.0 - 11.0	11/30/2015	Primary	Fill	Unsaturated	**5.25**	--	--	--	--	--
GB-107	4.0 - 8.0	12/03/2015	Primary	Fill	Unsaturated	<0.25	--	--	--	--	--
	8.0 - 11.0	12/03/2015	Primary	Fill	Saturated	<0.25	--	--	--	--	--
GB-108	3.0 - 7.0	12/03/2015	Primary	Fill	Unsaturated	<0.25	--	--	--	--	--
	8.0 - 13.0	12/03/2015	Primary	Fill	Saturated	<0.25	--	--	--	--	--
GB-109	1.5 - 4.0	12/07/2015	Primary	Fill	Unsaturated	<0.25	--	--	--	--	--
	4.0 - 8.0	12/07/2015	Primary	Fill	Unsaturated	**3.25 J**	--	--	--	--	--
	8.0 - 12.0	12/07/2015	Primary	Fill	Saturated	**2.00 J**	--	--	--	--	--
GB-110	3.0 - 8.0	12/04/2015	Primary	Fill	Unsaturated	<0.25 UJ	--	--	--	--	--
	8.0 - 13.0	12/04/2015	Primary	Fill	Saturated	**10-20** [3]	--	--	--	--	--
GB-111	1.5 - 2.5	11/30/2015	Primary	Fill	Unsaturated	<0.25	--	--	--	--	--
	4.0 - 6.0	11/30/2015	Primary	Fill	Unsaturated	**4.00**	--	--	--	--	--
	9.0 - 13.0	11/30/2015	Primary	Fill	Saturated	**5.75**	--	--	--	--	--
GB-112	1.5 - 4.0	12/04/2015	Primary	Fill	Unsaturated	**0.75**	--	--	--	--	--
	4.0 - 7.0	12/04/2015	Primary	Fill	Unsaturated	**4.00 J**	--	--	--	--	--
GB-113	1.0 - 2.0	12/04/2015	Primary	Fill	Unsaturated	**0.75**	--	--	--	--	--
GB-113A	4.0 - 8.0	12/07/2015	Primary	Fill	Unsaturated	<0.25 UJ	--	--	--	--	--
	8.0 - 12.0	12/07/2015	Primary	Fill	Saturated	<0.25 UJ	--	--	--	--	--
GB-114	1.0 - 2.5	12/01/2015	Primary	Fill	Unsaturated	<0.25	--	--	--	--	--
	5.0 - 7.0	12/01/2015	Primary	Fill	Unsaturated	**1.75**	--	--	--	--	--
	8.0 - 13.0	12/01/2015	Primary	Fill	Saturated	**5.75**	--	--	--	--	--
GB-115	1.0 - 2.0	12/01/2015	Primary	Fill	Unsaturated	<0.25	--	--	--	--	--
	4.0 - 8.0	12/01/2015	Primary	Fill	Unsaturated	<0.25	--	--	--	--	--
	9.0 - 13.0	12/01/2015	Primary	Fill	Saturated	**2.00**	--	--	--	--	--
GB-116	1.0 - 2.5	12/01/2015	Primary	Fill	Unsaturated	<0.25	--	--	--	--	--
	4.5 - 6.5	12/01/2015	Primary	Fill	Unsaturated	<0.25	--	--	--	--	--
	9.0 - 12.5	12/01/2015	Primary	Fill	Saturated	**0.75**	--	--	--	--	--
GB-117	1.0 - 2.0	12/01/2015	Primary	Fill	Unsaturated	<0.25	--	--	--	--	--
	5.0 - 8.0	12/01/2015	Primary	Fill	Unsaturated	<0.25	--	--	--	--	--
	9.0 - 13.0	12/01/2015	Primary	Fill	Saturated	<0.25	--	--	--	--	--

Notes:
1. Extracted from the 1991 Preliminary Endangerment Assessment report. Validation was applied according to current standards based on the validation reports included (Appendix D).
2. Soil samples were collected by Haley & Aldrich, Inc. and analyzed by TestAmerica Laboratories of Pleasanton, California for asbestos using California Air Resources Board (CARB) Method 435.
3. Asbestos exceeded the 10% maximum for an accurate point count; concentration is approximate.

Abbreviations:
bold indicates the compound was detected in the sample.
"--" indicates the compound was not analyzed.
"<" indicates the compound was not detected above the laboratory reporting limit shown.
"J" indicates the concentration is approximate, no bias, due to quality assurance/quality control issues.
"UJ" indicates that the compound was not detected; however, the reporting limit is approximate due to quality assurance/quality control issues.
bgs = below ground surface
USEPA = United States Environmental Protection Agency

APPENDIX E TABLE E-10
RESULTS FOR VOLATILE ORGANIC COMPOUNDS IN GROUNDWATER
FORMER UNIT 3 POWER GENERATION FACILITY INVESTIGATION AND HUMAN HEALTH RISK ASSESSMENT REPORT
POTRERO POWER PLANT SITE
SAN FRANCISCO, CALIFORNIA

Results reported in micrograms per liter (µg/L)

Location ID	Sample Depth (feet bgs)	Sample Date	Sample Type	Filtered/ Unfiltered	Benzene	Chloroform	Toluene	Ethyl-benzene	Xylenes	Naph-thalene	1,2,4-TMB	Styrene	All Other VOCs
TB1-006	8 - 18	06/09/1998	Primary	Not Filtered	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0 UJ	<5.0	<5.0 UJ	ND
TB1-007	6.5 - 16.5	06/09/1998	Primary	Not Filtered	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	ND
	6.5 - 16.5	02/23/2004	Primary	Not Filtered	<0.50	--	<0.50	<0.50	<0.50	--	--	--	--
	6.5 - 16.5	05/12/2004	Primary	Not Filtered	<0.50 UJ	--	<0.50 UJ	<0.50 UJ	<0.50 UJ	--	--	--	--
	6.5 - 16.5	08/27/2004	Primary	Not Filtered	<0.50	--	<0.50	<0.50	<0.50	--	--	--	--
TB1-013	7 - 17	06/09/1998	Primary	Not Filtered	<5.0	**5.9**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	ND
	7 - 17	02/23/2004	Primary	Not Filtered	<0.50	--	<0.50	<0.50	<0.50	--	--	--	--
	7 - 17	05/12/2004	Primary	Not Filtered	<0.50 UJ	--	<0.50 UJ	<0.50 UJ	<0.50 UJ	--	--	--	--
	7 - 17	08/27/2004	Primary	Not Filtered	<0.50	--	<0.50	<0.50	<0.50	--	--	--	--
TB1-021	15 - 20	03/10/1998	Primary	Not Filtered	<5.0	<5.0	<5.0	<5.0	<5.0	**4.2 J**	<5.0	<5.0	ND
TB1-022	44.5 - 49.5	03/11/1998	Primary	Not Filtered	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	ND
	44.5 - 49.5	03/11/1998	Duplicate	Not Filtered	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	ND
TB1-023	18 - 23	03/12/1998	Primary	Not Filtered	<12	<12	<12	<12	<12	**140**	<12	<12	ND
	18 - 23	03/12/1998	Duplicate	Not Filtered	<12	<12	<12	<12	<12	**120**	<12	<12	ND
OF-2A	16 - 19	07/18/2006	Primary	Not Filtered	<0.50	--	<1.0	<1.0	<1.0	--	--	--	--
TMW-20	10 - 19	01/10/2000	Primary	Not Filtered	<0.50	--	<0.50	<0.50	<0.50	--	--	--	--
	10 - 19	02/23/2004	Primary	Not Filtered	<0.50	--	<0.50	<0.50	<0.50	--	--	--	--
	10 - 19	05/12/2004	Primary	Not Filtered	<0.50 UJ	--	<0.50 UJ	<0.50 UJ	<0.50 UJ	--	--	--	--
	10 - 19	08/27/2004	Primary	Not Filtered	<0.50	--	<0.50	<0.50	<0.50	--	--	--	--
GB-106	13 - 18	11/30/2015	Primary	Not Filtered	<0.5	<1.0	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5	ND
	13 - 18	11/30/2015	Duplicate	Not Filtered	<0.5	<1.0	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5	ND
GB-107	6 - 11	12/03/2015	Primary	Not Filtered	<0.5	<1.0	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5	ND
	6 - 11	12/03/2015	Duplicate	Not Filtered	<0.5	<1.0	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5	ND
GB-108	15 - 20	12/03/2015	Primary	Not Filtered	<0.5	<1.0	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5	ND
GB-109	8 - 13	12/07/2015	Primary	Not Filtered	<0.5	<1.0	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5	ND
GB-110	14 - 19	12/04/2015	Primary	Not Filtered	<0.5	<1.0	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5	ND
GB-111	15 - 20	11/30/2015	Primary	Not Filtered	<0.5	<1.0	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5	ND
GB-113A	23 - 28	12/07/2015	Primary	Not Filtered	<0.5	<1.0	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5	ND
GB-114	26 - 31	12/01/2015	Primary	Not Filtered	<0.5	<1.0	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5	ND
GB-115	28 - 33	12/01/2015	Primary	Not Filtered	<0.5	<1.0	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5	ND
GB-116	21 - 26	12/01/2015	Primary	Not Filtered	<0.5	<1.0	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5	ND
GB-117	16 - 21	12/01/2015	Primary	Not Filtered	<0.5	<1.0	<0.5	<0.5	<1.0	**40**	<0.5	<0.5	ND

Abbreviations:
bold indicates the compound was detected in the sample.
"--" indicates the compound was not analyzed.
"<" indicates the compound was not detected above the laboratory reporting limit shown.
"J" indicates the concentration is approximate due to quality assurance/quality control issues.
"UJ" indicates that the compound was not detected; however, the reporting limit is approximate due to quality assurance/quality control issues.
bgs = below ground surface
ND = not detected (reporting limit varies)
1,2,4-TMB = 1,2,4-trimethylbenzene
VOCs = volatile organic compounds

APPENDIX E TABLE E-11
RESULTS FOR POLYCYCLIC AROMATIC HYDROCARBONS IN GROUNDWATER
FORMER UNIT 3 POWER GENERATION FACILITY INVESTIGATION AND HUMAN HEALTH RISK ASSESSMENT REPORT
POTRERO POWER PLANT SITE
SAN FRANCISCO, CALIFORNIA

Results reported in micrograms per liter (µg/L)

Location ID	Sample Depth (feet bgs)	Sample Date	Sample Type	Filtered/ Unfiltered	Acenaph-thene	Acenaph-thylene	Anthracene	Benzo[a] anthracene	Benzo[a] pyrene	Benzo[b] fluoranthene	Benzo[g,h,i] perylene	Benzo[k] fluoranthene	Chrysene	Dibenz(a,h) anthracene	Fluoran-thene	Fluorene	Indeno [1,2,3-cd] pyrene	1-methyl-napthelene	2-methyl-napthelene	Naphthalene	Phenan-threne	Pyrene	BaPe [1]
Benzo(a)Pyrene Potency Equivalent Factor (PEF)					--	--	--	0.1	1.0	0.1	--	0.01	0.001	1.0	--	--	0.1	--	--	--	--	--	--
TB1-006	8 - 18	10/27/1997	Primary	Not Filtered	<4.0	<4.0	<4.0	**3.94**	**6.52**	**4.4**	**5.72**	**2.03**	**5.02**	**3.01**	**11.1**	<4.0	**5.13**	--	--	<4.0	<4.0	**12**	**11**
TB1-007	6.5 - 16.5	10/27/1997	Primary	Not Filtered	<100	<100	<100	<25	<10	<25	<100	<25	<100	<25	**208**	<100	<25	--	--	<100	**108**	**257**	**21**
	6.5 - 16.5	02/23/2004	Primary	Filtered	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	--	--	<0.1	<0.1	<0.1	**0.12**
	6.5 - 16.5	05/12/2004	Primary	Filtered	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	--	--	0.6 U	<0.1	<0.1	**0.12**
	6.5 - 16.5	08/27/2004	Primary	Filtered	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	--	--	<0.1 UJ	<0.1	<0.1	**0.12**
TB1-013	7 - 17	10/27/1997	Primary	Not Filtered	<40	<40	<40	**18.4**	**41.8**	**33**	**42.6**	**11.5**	<40	**34.5**	**118**	<40	**42.8**	--	--	<40	<40	**77.9**	**86**
	7 - 17	02/23/2004	Primary	Filtered	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	--	--	<0.1	<0.1	<0.1	**0.12**
	7 - 17	05/12/2004	Primary	Filtered	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	--	--	**1.3**	<0.1	<0.1	**0.12**
	7 - 17	08/27/2004	Primary	Filtered	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	--	--	<0.1 UJ	<0.1	<0.1	**0.12**
TB1-021	15 - 20	03/10/1998	Primary	Filtered	**3.1**	<10	<2.0	<0.5	<0.2	<0.5	<2.0	<0.5	<2.0	<0.5	<2.0	**1.1 J**	<0.5	--	--	**5.3**	<2.0	<2.0	**0.43**
	15 - 20	03/10/1998	Primary	Not Filtered	**4.5**	<10	**2.4**	<0.5	<0.2	<0.5	<2.0	<0.5	<2.0	<0.5	<2.0	**3.9**	<0.5	--	--	<2.0	**9.3**	**2.0**	**0.43**
TB1-022	44.5 - 49.5	03/11/1998	Primary	Filtered	<2.0	<10	<2.0	<0.5	<0.2	<0.5	<2.0	<0.5	<2.0	<0.5	<2.0	<2.0	<0.5	--	--	<2.0	<2.0	<2.0	**0.43**
	44.5 - 49.5	03/11/1998	Primary	Not Filtered	<2.0	<10	<2.0	<0.5	<0.2	<0.5	<2.0	<0.5	<2.0	<0.5	<2.0	<2.0	<0.5	--	--	<2.0	<2.0	<2.0	**0.43**
	44.5 - 49.5	03/11/1998	Duplicate	Filtered	<2.0	<10	<2.0	<0.5	<0.2	<0.5	<2.0	<0.5	<2.0	<0.5	<2.0	<2.0	<0.5	--	--	<2.0	<2.0	<2.0	**0.43**
	44.5 - 49.5	03/11/1998	Duplicate	Not Filtered	<2.0	<10	<2.0	<0.5	<0.2	<0.5	<2.0	<0.5	<2.0	<0.5	<2.0	<2.0	<0.5	--	--	<2.0	<2.0	<2.0	**0.43**
TB1-023	18 - 23	03/12/1998	Primary	Filtered	**16 J**	**61**	<2.0	<0.5	<0.2	<0.5	<2.0	<0.5	<2.0	<0.5	<2.0	**11 J**	<0.5	--	--	**98**	**3.2 J**	<2.0	**0.43**
	18 - 23	03/12/1998	Primary	Not Filtered	**24 J**	**58 J**	<20	<5.0	**2.6 J**	<5.0	<20	<5.0	<20	<5.0	<20	**23 J**	<5.0	--	--	**100**	**28 J**	**14 J**	**5.9**
	18 - 23	03/12/1998	Duplicate	Filtered	**21 J**	**60**	**1.1 J**	<0.5	<0.2	<0.5	<2.0	<0.5	<2.0	<0.5	<2.0	**16 J**	<0.5	--	--	**100**	**9.0 J**	<2.0	**0.43**
	18 - 23	03/12/1998	Duplicate	Not Filtered	**27 J**	<100	<20	<5.0	**3.5 J**	**2.7 J**	<20	<5.0	<20	<5.0	**11 J**	**22 J**	**2.6 J**	--	--	**110**	**35 J**	**11 J**	**6.8**
OF-2A	16 - 19	07/18/2006	Primary	Filtered	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.2**
TMW-20	10 - 19	01/10/2000	Primary	Filtered	**0.2**	**0.6**	**0.6**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	**1.2**	**0.7**	<0.1	--	--	**2.3**	**1.9**	**1.9**	**0.12**
	10 - 19	02/23/2004	Primary	Filtered	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	--	--	<0.1	<0.1	**0.5**	**0.12**
	10 - 19	05/12/2004	Primary	Filtered	<0.1	**0.1**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	**0.1**	<0.1	--	--	**3.3**	**0.1 J**	**1.1**	**0.12**
	10 - 19	08/27/2004	Primary	Filtered	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	--	--	<0.1 UJ	<0.1	**0.2**	**0.12**
GB-106	13 - 18	11/30/2015	Primary	Not Filtered	<0.1 UJ	<0.1 UJ	<0.1 UJ	**0.67 J-**	**1.4 J-**	**1.3 J-**	**1.0 J-**	**0.52 J-**	**0.64 J-**	**0.26 J-**	**0.49 J-**	<0.1 UJ	**0.76 J-**	--	--	**0.27 J-**	**0.23 J-**	**1.1 J-**	**1.9 J-**
	13 - 18	11/30/2015	Duplicate	Not Filtered	<0.1 UJ	<0.1 UJ	<0.1 UJ	<0.1 UJ	**0.2 J-**	**0.18 J-**	**0.16 J-**	<0.1 UJ	<0.1 UJ	<0.1 UJ	<0.1 UJ	<0.1 UJ	**0.12 J-**	--	--	<0.1 UJ	<0.1 UJ	**0.23 J-**	**0.29 J-**
GB-107	6.0 - 11	12/03/2015	Primary	Not Filtered	<2.1	**8.2 J**	**9.2 J**	**23 J**	**29 J**	**34 J**	**12 J**	**14 J**	**23 J**	**2.4 J**	**47 J**	**2.8 J**	**8.5 J**	--	--	<2.1	**32 J**	**65 J**	**38 J**
	6.0 - 11	12/03/2015	Duplicate	Not Filtered	<0.1 UJ	**0.74 J-**	**0.7 J-**	**1.6 J-**	**1.9 J-**	**2.1 J-**	**0.87 J-**	**0.93 J-**	**1.5 J-**	**0.16 J-**	**3.2 J-**	**0.27 J-**	**0.57 J-**	--	--	**0.14 J-**	**2.5 J-**	**4.1 J-**	**2.5 J-**
GB-108	15 - 20	12/03/2015	Primary	Not Filtered	<0.1	<0.1 UJ	<0.1 UJ	**0.16 J**	**0.26 J**	**0.29 J**	**0.11 J**	<0.1 UJ	**0.16 J**	<0.1 UJ	**0.26 J**	<0.1 UJ	<0.1 UJ	--	--	<0.1	**0.19 J**	**0.32 J**	**0.36 J**
GB-109	8.0 - 13	12/07/2015	Primary	Not Filtered	<0.1 UJ	<0.1 UJ	<0.1 UJ	**0.22 J-**	**0.36 J-**	**0.32 J-**	**0.27 J-**	**0.16 J-**	**0.22 J-**	<0.1 UJ	**0.36 J-**	<0.1 UJ	**0.2 J-**	--	--	<0.1 UJ	**0.25 J-**	**0.51 J-**	**0.49 J-**
GB-110	14 - 19	12/04/2015	Primary	Not Filtered	**0.11 J-**	**0.42 J-**	**0.73 J-**	**1.8 J-**	**2.5 J-**	**2.5 J-**	**1.8 J-**	**0.92 J-**	**2.0 J-**	**0.49 J-**	**3.3 J-**	**0.39 J-**	**1.4 J-**	--	--	**0.33 J-**	**3.2 J-**	**4.2 J-**	**3.6 J-**
GB-111	15 - 20	11/30/2015	Primary	Not Filtered	<0.1 UJ	<0.1 UJ	<0.1 UJ	<0.1 UJ	<0.1 UJ	<0.1 UJ	<0.1 UJ	<0.1 UJ	<0.1 UJ	<0.1 UJ	<0.1 UJ	<0.1 UJ	<0.1 UJ	--	--	<0.1 UJ	<0.1 UJ	<0.1 UJ	**0.12 J-**
GB-113A	23 - 28	12/07/2015	Primary	Not Filtered	**0.23 J-**	**1.4 J-**	**1.7 J-**	**4.7 J-**	**5.8 J-**	**5.7 J-**	**3.7 J-**	**2.2 J-**	**5.4 J-**	**0.9 J-**	**8.4 J-**	**1.0 J-**	**3.0 J-**	--	--	**1.3 J-**	**8.3 J-**	**11 J-**	**8.1 J-**
GB-114	26 - 31	12/01/2015	Primary	Not Filtered	**0.1 J-**	**0.38 J-**	**0.35 J-**	**2.8 J-**	**4.8 J-**	**4.3 J-**	**3.2 J-**	**2.0 J-**	**3.1 J-**	**0.68 J-**	**3.8 J-**	**0.11 J-**	**2.4 J-**	--	--	**0.69 J-**	**1.1 J-**	**5.7 J-**	**6.5 J-**
GB-115	28 - 33	12/01/2015	Primary	Not Filtered	<0.1 UJ	**0.17 J-**	<0.1 UJ	**0.55 J-**	**1.0 J-**	**0.95 J-**	**0.91 J-**	**0.38 J-**	**0.63 J-**	**0.14 J-**	**0.84 J-**	<0.1 UJ	**0.64 J-**	--	--	**0.61 J-**	**0.35 J-**	**1.2 J-**	**1.4 J-**
GB-116	21 - 26	12/01/2015	Primary	Not Filtered	**0.24 J-**	**0.83 J-**	**0.72 J-**	**3.9 J-**	**6.7 J-**	**5.9 J-**	**4.2 J-**	**2.9 J-**	**4.1 J-**	**0.95 J-**	**4.9 J-**	0.24 J-	**3.3 J-**	--	--	**1.1 J-**	**1.7 J-**	**8.1 J-**	**9.0 J-**
GB-117	16 - 21	12/01/2015	Primary	Not Filtered	**3.3 J-**	**9.4 J-**	**15 J-**	**37 J-**	**65 J-**	**53 J-**	**62 J-**	**25 J-**	**46 J-**	**7.3 J-**	**69 J-**	**7.8 J-**	**42 J-**	--	--	**33 J-**	**43 J-**	**110 J-**	**85.8 J-**

Note:
1. The benzo(a)pyrene equivalent (BaPe) is calculated as the summation of the potency equivalency factors (PEFs) multiplied by the concentrations of the carcinogenic PAHs (DTSC, 2015). One-half of the reporting limit was used in the BaPe concentration calculations for non-detect results.

Abbreviations:
bold indicates the compound was detected in the sample.
"--" indicates the compound was not analyzed.
"<" indicates the compound was not detected above the laboratory reporting limit shown.
"J" indicates the concentration is approximate due to quality assurance/quality control issues.
"J-" indicates the concentration is approximate, biased low, due to quality assurance/quality control issues.
"UJ" indicates that the compound was not detected; however, the reporting limit is approximate due to quality assurance/quality control issues.
bgs = below ground surface
PAHs = polycyclic aromatic hydrocarbons

Reference:
California Department of Toxic Substances Control (DTSC), 2015, Preliminary Endangerment Assessment Guidance Manual, Revised, October.

APPENDIX E TABLE E-12
RESULTS FOR TOTAL PETROLEUM HYDROCARBONS IN GROUNDWATER
FORMER UNIT 3 POWER GENERATION FACILITY INVESTIGATION AND HUMAN HEALTH RISK ASSESSMENT REPORT
POTRERO POWER PLANT SITE
SAN FRANCISCO, CALIFORNIA

Results reported in micrograms per liter (µg/L)

Location ID	Sample Depth (feet bgs)	Sample Date	Sample Type	Filtered/ Unfiltered	TEPH	TPHd	TPHmo	TPHbf	TPHss	TPHk
TB1-006	8 - 18	10/27/1997	Primary	Not Filtered	<500	--	--	--	--	--
TB1-007	6.5 - 16.5	10/27/1997	Primary	Not Filtered	<500	--	--	--	--	--
	6.5 - 16.5	02/23/2004	Primary	Filtered	--	<50	<100	--	--	--
	6.5 - 16.5	05/12/2004	Primary	Filtered	--	<50	<100	--	--	--
	6.5 - 16.5	08/27/2004	Primary	Filtered	--	<50 UJ	<100 UJ	--	--	--
TB1-013	7 - 17	10/27/1997	Primary	Not Filtered	**2,480**	--	--	--	--	--
	7 - 17	02/23/2004	Primary	Filtered	--	<50	<100	--	--	--
	7 - 17	05/12/2004	Primary	Filtered	--	<50	<100	--	--	--
	7 - 17	08/27/2004	Primary	Filtered	--	<50 UJ	<100 UJ	--	--	--
TB1-021	15 - 20	03/10/1998	Primary	Not Filtered	**160**	--	--	--	--	--
TB1-022	44.5 - 49.5	03/11/1998	Primary	Not Filtered	**170 J**	--	--	--	--	--
	44.5 - 49.5	03/11/1998	Duplicate	Not Filtered	**100**	--	--	--	--	--
TB1-023	18 - 23	03/12/1998	Primary	Not Filtered	**2,500 J**	--	--	--	--	--
	18 - 23	03/12/1998	Duplicate	Not Filtered	**910 J**	--	--	--	--	--
OF-2A	16 - 19	07/18/2006	Primary	Not Filtered	--	**140**	<250	--	--	--
TMW-20	10 - 19	01/10/2000	Primary	Not Filtered	--	**59 J**	<500	<50	<50	<50
	10 - 19	02/23/2004	Primary	Filtered	--	<50	<100	--	--	--
	10 - 19	05/12/2004	Primary	Filtered	--	<50	<100	--	--	--
	10 - 19	08/27/2004	Primary	Filtered	--	<50 UJ	<100 UJ	--	--	--
GB-106	13 - 18	11/30/2015	Primary	Not Filtered	--	**480**	**280**	--	--	--
	13 - 18	11/30/2015	Duplicate	Not Filtered	--	**450**	**320**	--	--	--
GB-107	6 - 11	12/03/2015	Primary	Not Filtered	--	**1,600 J**	**2,100 J**	--	--	--
	6 - 11	12/03/2015	Duplicate	Not Filtered	--	**4,100 J**	**5,800 J**	--	--	--
GB-108	15 - 20	12/03/2015	Primary	Not Filtered	--	**150 J**	<100 UJ	--	--	--
GB-109	8 - 13	12/07/2015	Primary	Not Filtered	--	**220**	**110**	--	--	--
GB-110	14 - 19	12/04/2015	Primary	Not Filtered	--	**690**	**1,500**	--	--	--
GB-111	15 - 20	11/30/2015	Primary	Not Filtered	--	**1,500**	**2,500**	--	--	--
GB-113A	23 - 28	12/07/2015	Primary	Not Filtered	--	**1,000**	**1,600**	--	--	--
GB-114	26 - 31	12/01/2015	Primary	Not Filtered	--	**580**	**980**	--	--	--
GB-115	28 - 33	12/01/2015	Primary	Not Filtered	--	**120**	**190**	--	--	--
GB-116	21 - 26	12/01/2015	Primary	Not Filtered	--	**1,400**	**2,800**	--	--	--
GB-117	16 - 21	12/01/2015	Primary	Not Filtered	--	**440**	**700**	--	--	--

Abbreviations:
bold indicates the compound was detected in the sample.
"--" indicates the compound was not analyzed.
"<" indicates the compound was not detected above the laboratory reporting limit shown.
"J" indicates the concentration is approximate due to quality assurance/quality control issues.
"UJ" indicates that the compound was not detected; however, the reporting limit is approximate due to quality assurance/quality control issues.
bgs = below ground surface
TEPH = total extractable petroleum hydrocarbons
TPHd = total petroleum hydrocarbons quantified as diesel
TPHmo = total petroleum hydrocarbons quantified as motor oil
TPHbf = total petroleum hydrocarbons quantified as bunker fuel/fuel oil
TPHss = total petroleum hydrocarbons quantified as stoddard solvent
TPHk = total petroleum hydrocarbons quantified as kerosene

APPENDIX E TABLE E-13
RESULTS FOR METALS IN GROUNDWATER
FORMER UNIT 3 POWER GENERATION FACILITY INVESTIGATION AND HUMAN HEALTH RISK ASSESSMENT REPORT
POTRERO POWER PLANT SITE
SAN FRANCISCO, CALIFORNIA

Results reported in milligrams per liter (mg/L)

Location ID	Sample Depth (feet bgs)	Sample Date	Sample Type	Filtered/ Unfiltered	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chrom-ium	Cobalt	Copper	Iron	Lead	Magnes-ium	Mangan-ese	Mercury	Molyb-denum	Nickel	Potass-ium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc
TB1-006	8 - 18	10/27/1997	Primary	Filtered	<0.06	<0.01	<0.2	<0.005	<0.02	<0.03	<0.05	<0.025	<0.1	<0.004	**80.4**	**0.604**	<0.0005	<0.1	<0.04	**46.3**	<0.01	<0.02	**970**	<0.01	<0.05	<0.02
TB1-007	6.5 - 16.5	10/27/1997	Primary	Filtered	<0.06	<0.01	<0.2	<0.005	<0.02	<0.03	<0.05	<0.025	<0.1	<0.004	**976**	**0.0996**	<0.0005	<0.1	**0.0605**	**339**	<0.01	<0.02	**8,660**	<0.01	<0.05	<0.02
TB1-013	7 - 17	10/27/1997	Primary	Filtered	<0.06	<0.01	<0.2	<0.005	<0.02	<0.03	<0.05	<0.025	--	<0.004	--	--	<0.0005	<0.1	<0.04	--	<0.01	<0.02	--	<0.01	<0.05	<0.02
TB1-021	15 - 20	03/10/1998	Primary	Filtered	<0.06	<0.01	<0.2	<0.005	<0.02	<0.03	<0.05	<0.025	--	<0.004	--	--	<0.0005	<0.1	<0.04	--	<0.05	<0.02	--	<0.01	<0.05	**0.026**
TB1-022	44.5 - 49.5	03/11/1998	Primary	Filtered	<0.06	**0.034 J**	**0.11 J**	<0.005	<0.02	<0.03	<0.05	<0.025	--	<0.004	--	--	<0.0005	<0.1	<0.04	--	**0.13**	<0.02	--	<0.01	<0.05	<0.02
	44.5 - 49.5	03/11/1998	Duplicate	Filtered	<0.06	**0.039**	**0.14 J**	<0.005	<0.02	<0.03	<0.05	**0.024 J**	--	<0.004	--	--	<0.0005	<0.1	<0.04	--	**0.11**	<0.02	--	<0.01	**0.031 J**	<0.02
TB1-023	18 - 23	03/12/1998	Primary	Filtered	**0.022 J**	**0.13 J**	**0.10 J**	<0.005	<0.02	<0.03	<0.05	<0.025	--	<0.004	--	--	<0.0005	<0.1	<0.04	--	**0.13**	<0.02	--	<0.01	<0.05	**0.013 J**
	18 - 23	03/12/1998	Duplicate	Filtered	<0.06	**0.022 J**	<0.2	<0.005	<0.02	<0.03	<0.05	<0.025	--	<0.004	--	--	<0.0005	<0.1	<0.04	--	**0.13**	<0.02	--	<0.01	<0.05	**0.010 J**
GB-106	13 - 18	11/30/2015	Primary	Not Filtered	<0.01	<0.01	**1.4**	<0.002	<0.0025	**0.78**	**0.1**	**0.055**	--	**0.016**	--	--	**0.0074 J**	<0.01	**1.6 J**	--	<0.02	<0.005	--	<0.01	**0.099**	**0.091**
	13 - 18	11/30/2015	Duplicate	Not Filtered	<0.01	<0.01	**1.2**	<0.002	<0.0025	**0.55**	**0.072**	**0.04**	--	**0.016**	--	--	**0.0027 J**	<0.01	**1.1 J**	--	<0.02	<0.005	--	<0.01	**0.073**	**0.065**
GB-107	6 - 11	12/03/2015	Primary	Not Filtered	<0.01	<0.01	**0.1**	<0.002	<0.0025	**0.038 J**	**0.15 J**	**0.11 J**	--	**0.016 J**	--	--	**0.00046**	<0.01	**0.11 J**	--	<0.02	<0.005	--	<0.01	**0.018 J**	**0.056 J**
	6 - 11	12/03/2015	Duplicate	Not Filtered	<0.01	<0.01	**0.12**	<0.002	<0.0025	**0.11 J**	**0.06 J**	**0.022 J**	--	**0.042 J**	--	--	**0.00047**	<0.01	**0.28 J**	--	<0.02	<0.005	--	<0.01	**0.033 J**	**0.1 J**
GB-108	15 - 20	12/03/2015	Primary	Not Filtered	<0.01	<0.01	**0.33**	<0.002	<0.0025	**0.23 J**	**0.031 J**	**0.03 J**	--	**0.018 J**	--	--	**0.00081**	<0.01	**0.47 J**	--	<0.02	<0.005	--	<0.01	**0.035 J**	**0.056 J**
GB-109	8 - 13	12/07/2015	Primary	Not Filtered	<0.01	<0.01	**0.19**	<0.002	<0.0025	**0.094**	**0.037**	<0.02	--	**0.013**	--	--	**0.00023**	<0.01	**0.23**	--	<0.02	<0.005	--	<0.01	**0.019**	**0.029**
GB-110	14 - 19	12/04/2015	Primary	Not Filtered	<0.01	<0.01	**0.39**	<0.002	<0.0025	**0.23**	**0.19**	**0.11**	--	**0.3**	--	--	**0.0024**	<0.01	**0.95**	--	<0.02	<0.005	--	<0.01	**0.047**	**0.2**
GB-111	15 - 20	11/30/2015	Primary	Not Filtered	<0.01	<0.01	**0.46**	<0.002	<0.0025	**0.16**	**0.032**	**0.032**	--	**0.0089**	--	--	**0.0013 J**	<0.01	**0.34 J**	--	<0.02	<0.005	--	<0.01	**0.025**	**0.041**
GB-113A	23 - 28	12/07/2015	Primary	Not Filtered	<0.01	**0.012**	**1.9**	**0.002**	<0.0025	**4.5**	**0.49**	**0.62**	--	**0.25**	--	--	**0.0047**	**0.11**	**7.6**	--	<0.02	<0.005	--	<0.01	**0.49**	**1.2**
GB-114	26 - 31	12/01/2015	Primary	Not Filtered	<0.01	**0.035**	**0.68**	**0.0026**	<0.0025	**6.1**	**0.84**	**0.55**	--	**0.16**	--	--	**0.0099**	**0.033**	**12**	--	<0.02	<0.005	--	<0.01	**0.8**	**1.0**
GB-115	28 - 33	12/01/2015	Primary	Not Filtered	<0.02	**0.11**	**0.56**	<0.002	<0.005	**11**	**3.5**	**0.48**	--	**0.12**	--	--	**0.0039**	**0.047**	**25**	--	<0.1	<0.01	--	**0.09**	**0.66**	**0.72**
GB-116	21 - 26	12/01/2015	Primary	Not Filtered	<0.01	**0.047**	**0.46**	<0.002	<0.0025	**1.1**	**0.43**	**0.3**	--	**0.28**	--	--	**0.0031**	**0.024**	**2.9**	--	<0.02	<0.005	--	<0.01	**0.41**	**0.42**
GB-117	16 - 21	12/01/2015	Primary	Not Filtered	<0.01	<0.01	**0.26**	<0.002	<0.0025	**0.014**	**0.0025**	**0.026**	--	**0.022**	--	--	<0.0002	**0.063**	**0.04**	--	<0.02	<0.005	--	<0.01	<0.01	<0.02

Abbreviations:
bold indicates the compound was detected in the sample.
"--" indicates the compound was not analyzed.
"<" indicates the compound was not detected above the laboratory reporting limit shown.
"J" indicates the concentration is approximate due to quality assurance/quality control issues.
bgs = below ground surface

APPENDIX E TABLE E-14
RESULTS FOR POLYCHLORINATED BIPHENYLS IN GROUNDWATER
FORMER UNIT 3 POWER GENERATION FACILITY INVESTIGATION AND HUMAN HEALTH RISK ASSESSMENT REPORT
POTRERO POWER PLANT SITE
SAN FRANCISCO, CALIFORNIA

Results reported in milligrams per liter (mg/L)

Location ID	Sample Depth (feet bgs)	Sample Date	Sample Type	Filtered/ Unfiltered	PCB-1016	PCB-1221	PCB-1232	PCB-1242	PCB-1248	PCB-1254	PCB-1260	Total PCBs
TB1-006	8 - 18	10/27/1997	Primary	Not Filtered	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
TB1-007	6.5 - 16.5	10/27/1997	Primary	Not Filtered	<20	<20	<20	<20	<20	<20	<20	<20
TB1-013	7 - 17	10/27/1997	Primary	Not Filtered	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0

Abbreviations:
"<" indicates the compound was not detected above the laboratory reporting limit shown.
bgs = below ground surface
PCB = polychlorinated biphenyl

APPENDIX E TABLE E-15
RESULTS FOR TOTAL CYANIDE IN GROUNDWATER
FORMER UNIT 3 POWER GENERATION FACILITY INVESTIGATION AND HUMAN HEALTH RISK ASSESSMENT REPORT
POTRERO POWER PLANT SITE
SAN FRANCISCO, CALIFORNIA

Results reported in milligrams per liter (mg/L)

Location ID	Sample Depth (feet bgs)	Sample Date	Sample Type	Filtered/ Unfiltered	Total Dissolved Cyanide	Weak Acid Dissociable Cyanide
TB1-006	8 - 18	10/27/1997	Primary	NA [1]	**0.04**	--
TB1-007	6.5 - 16.5	10/27/1997	Primary	NA	<0.01	--
	6.5 - 16.5	01/06/2000	Primary	Filtered	<0.01	--
TB1-013	7 - 17	12/03/1997	Primary	NA	<0.01	--
	7 - 17	12/03/1997	Duplicate	NA	<0.01	--
	7 - 17	01/06/2000	Primary	Filtered	<0.01	--
TB1-021	15 - 20	03/10/1998	Primary	NA	--	<0.01
	15 - 20	01/06/2000	Primary	Filtered	<0.01	--
TB1-022	44.5 - 49.5	03/11/1998	Primary	NA	--	<0.01
	44.5 - 49.5	03/11/1998	Duplicate	NA	--	<0.01
TB1-023	18 - 23	03/12/1998	Primary	NA	--	<0.01
	18 - 23	03/12/1998	Duplicate	NA	--	<0.01
	18 - 23	01/06/2000	Primary	Filtered	<0.01	--
TMW-20	10 - 19	01/10/2000	Primary	Filtered	**0.16**	**--**
	10 - 19	01/10/2000	Primary	Not filtered	**--**	**0.05**
	10 - 19	03/02/2000	Primary	Filtered	<0.01	<0.01
	10 - 19	03/02/2000	Duplicate	Filtered	<0.01	<0.01

Note:
1. "NA" indicates that no information is available regarding whether or not the sample was filtered prior to analysis; therefore the sample may reflect total cyanide instead of total dissolved cyanide.

Abbreviations:
bold indicates the compound was detected in the sample.
"--" indicates the compound was not analyzed
"<" indicates the compound was not detected above the laboratory reporting limit shown.
bgs = below ground surface

APPENDIX E TABLE E-16
RESULTS FOR PHENOLS IN GROUNDWATER
FORMER UNIT 3 POWER GENERATION FACILITY INVESTIGATION AND HUMAN HEALTH RISK ASSESSMENT REPORT
POTRERO POWER PLANT SITE
SAN FRANCISCO, CALIFORNIA

Results reported in micrograms per liter (µg/L)

Location ID	Sample Depth (feet bgs)	Sample Date	Sample Type	Filtered/ Unfiltered	2,4-Dinitro-phenol	p-Chloro-m-cresol	2,6-Dichloro-phenol	2,4,6-Trichloro-phenol	o-Nitro-phenol	o-Cresol	2-Chloro-phenol	p-Nitro-phenol	2,4-Dimethyl-phenol	Phenol	2,4-Dichloro-phenol	4,6-Dinitro-o-cresol	3+4-Methyl-phenol	2,6-Trichloro-phenol
Unit 3 Area - Shallow Samples																		
TB1-006	8 - 18	10/27/1997	Primary	Not Filtered	<500	<200	--	<100	<100	<100	<100	<500	<100	<100	<100	<100	<1000	<100
TB1-007	6.5 - 16.5	10/27/1997	Primary	Not Filtered	<50	<20	--	<10	<10	<10	<10	<50	<10	<10	<10	<50	<100	<10
TB1-013	7 - 17	10/27/1997	Primary	Not Filtered	<500	<200	--	<100	<100	<100	<100	<500	<100	<100	<100	<500	<1000	<100

Abbreviations:
"--" indicates the compound was not analyzed
"<" indicates the compound was not detected above the laboratory reporting limit shown.
bgs = below ground surface

APPENDIX E TABLE E-17
RESULTS FOR TOTAL OTHER CONSTITUENTS IN GROUNDWATER
FORMER UNIT 3 POWER GENERATION FACILITY INVESTIGATION AND HUMAN HEALTH RISK ASSESSMENT REPORT
POTRERO POWER PLANT SITE
SAN FRANCISCO, CALIFORNIA

Results reported in milligrams per liter (mg/L)

Location ID	Sample Depth (feet bgs)	Sample Date	Sample Type	Filtered/ Unfiltered	Total Alkalinity (as CaCO3)	Alkalinity Bicarbonate (as CaCO3)	Hydroxide	pH	Chloride	Nitrate (as N)	Sulfate	MBAS	Filterable Residue (%)	Hardness (as $CaCO_3$)
TB1-006	8 - 18	10/27/1997	Primary	Not Filtered	<5.0	**380**	<5.0	**7.6**	**6,100**	**0.2**	**1,170**	**0.068**	**0.29**	**408**
TB1-007	6.5 - 16.5	10/27/1997	Primary	Not Filtered	<5.0	**190**	<5.0	**7.5**	**16,000**	**0.3**	**2,070**	**0.068**	**2.9**	**5,780**
TB1-013	7 - 17	10/27/1997	Primary	Not Filtered	--	--	--	**7.7**	--	--	--	--	--	--

Abbreviations:
bold indicates the compound was detected in the sample.
"--" indicates the compound was not analyzed
"<" indicates the compound was not detected above the laboratory reporting limit shown.
bgs = below ground surface
MBAS = foaming agents

APPENDIX E TABLE E-18
RESULTS FOR VOLATILE ORGANIC COMPOUNDS IN SOIL VAPOR [1]
FORMER UNIT 3 POWER GENERATION FACILITY INVESTIGATION AND HUMAN HEALTH RISK ASSESSMENT REPORT
POTRERO POWER PLANT SITE
SAN FRANCISCO, CALIFORNIA

Results reported in micrograms per cubic meter (µg/m^3)

Location ID	Sample Depth (feet bgs)	Sample Date	Sample Type	Volatile Organic Compounds																			Semivolatile Organic Compounds	
				Analytical Method	Acetone	Benzene	Sec-butyl-benzene	Carbon Disulfide	Chloro-form	Ethyl-benzene	Freon 12	Methylene Chloride	PCE	TCE	1,1,1-TCA	Toluene	1,2,4-Trimethyl-benzene	o-Xylene	Xylenes	Naph-thalene	C6-C8 Aromatics	C9-C16 Aromatics	Naphtha-lene	2-Methyl-naphthalene
AMEC, 2010 [2]																								
SV-12A	3.5 - 4.0	11/04/2009	Primary	8260B	--	**55**	<8.0	--	<8.0	**49**	<8.0	<8.0	<8.0	<8.0	<8.0	**38**	<8.0	--	**146**	**151**	**288**	**151**	<9.5	<9.5
		09/16/2010	Primary	8260B	--	<8.0	--	--	--	<8.0	--	--	<8.0	--	--	<8.0	<8.0	--	<8.0	**72**	<200	**72**	--	--
SV-12B	7.3 - 7.8	11/04/2009	Primary	8260B	--	**96**	<8.0	--	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	**51**	<8.0	--	<8.0	**58**	**147**	**58**	<9.4	<9.4
		09/16/2010	Primary	8260B	--	<8.0	--	--	--	<8.0	--	--	<8.0	--	--	<8.0	<8.0	--	<8.0	**59**	<200	**59**	--	--
SV-14A	3.5 - 4.0	11/04/2009	Primary	8260B	--	**47**	<8.0	--	<8.0	**102**	<8.0	<8.0	<8.0	<8.0	<8.0	**56**	**39**	--	**259**	**83**	**464**	**122**	<9.6	<9.6
SV-14B	7.75 - 8.25	11/04/2009	Primary	8260B	--	**48**	<8.0	--	**46**	**50**	<8.0	<8.0	<8.0	<8.0	<8.0	**36**	<8.0	--	**146**	**113**	**280**	**113**	<10	<10
SV-45	4.1 - 4.6	11/04/2009	Primary	8260B	--	**8.0**	<8.0	--	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	**32**	<8.0	--	<8.0	<8.0	**40**	<25	<9.9	<9.9
SV-46	3.4 - 3.9	11/04/2009	Primary	8260B	--	**97**	**42**	--	<8.0	<20	<8.0	<8.0	<8.0	<8.0	<8.0	**102**	**83**	--	**59**	<8.0	**258**	**125**	--	--
		11/04/2009	Duplicate	8260B	--	**62**	<8.0	--	<8.0	<20	<8.0	<8.0	<8.0	<8.0	<8.0	**59**	**86**	--	**51**	<8.0	**172**	**86**	<9.9	<9.9
SV-47A	3.5 - 4.0	11/05/2009	Primary	8260B	--	<8.0	<8.0	--	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	**22**	<8.0	--	<8.0	<8.0	**22**	<25	<8.8	<8.8
SV-47B	7.75 - 8.25	11/05/2009	Primary	8260B	--	<8.0	<8.0	--	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	**22**	<8.0	--	<8.0	<8.0	**22**	<25	<10	<10
SV-48A	3.5 - 4.0	11/04/2009	Primary	8260B	--	**57**	<8.0	--	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	--	<8.0	**73**	**57**	**73**	<9.9	<9.9
SV-48B	7.5 - 8.0	11/04/2009	Primary	8260B	--	**49**	<8.0	--	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	--	<8.0	**119**	**49**	**119**	<9.7	<9.7
Haley & Aldrich, 2015 [3]																								
GB-108	5.0	12/29/2015	Primary	TO-15	**12**	**1.4**	--	**7.3**	<1.5	<1.7	**4.4**	**4.8**	**43**	<2.1	**3.8**	**85**	<3.9	**1.8**	--	<4.2	--	--	--	--
GB-110	5.0	12/28/2015	Primary	TO-15	<12	<1.3	--	<2.5	<1.5	<1.7	**2.0**	<1.4	**5.5**	**30**	<1.6	<1.5	<3.9	<1.7	--	<4.2	--	--	--	--
GB-114	5.0	12/28/2015	Primary	TO-15	<12	<1.3	--	<2.5	**2.6**	<1.7	**2.6**	<1.4	**7.2**	<2.1	<1.6	<1.5	<3.9	<1.7	--	<4.2	--	--	--	--
		12/28/2015	Duplicate	TO-15	<12	<1.3	--	<2.5	**2.5**	<1.7	**2.6**	<1.4	**7.0**	<2.1	<1.6	**2.0**	<3.9	<1.7	--	<4.2	--	--	--	--
GB-117	5.0	12/28/2015	Primary	TO-15	<12	<1.3	--	<2.5	<1.5	<1.7	<2.0	<1.4	**4.3**	<2.1	**4.3**	<1.5	<3.9	<1.7	--	<4.2	--	--	--	--

Notes:
1. Only the analytical results for detected volatile organic compounds (VOCs) are presented.
2. Soil vapor samples were collected into a sorbent tube and analyzed for VOCs using USEPA Method 8260B with an onsite mobile laboratory (Jones Environmental Testing Laboratories) and into sorbent tubes and analyzed for naphthalene and 2-methylnaphthalene using USEPA Method TO-17 (Air Toxics, Ltd.) (AMEC, 2010a, 2010b).
3. Soil vapor samples were collected by Haley & Aldrich, Inc. and analyzed by TestAmerica Laboratories of Pleasanton, California for VOCs using USEPA Method TO-15.

Abbreviations:
bold indicates the compound was detected in the sample.
"--" indicates the compound was not analyzed.
"<" indicates the compound was not detected above the laboratory reporting limit shown.
bgs = below ground surface
Freon-12 = dichlorodifluoromethane
PCE = tetrachloroethene
TCE = trichloroethene
1,1,1-TCA = 1,1,1-trichloroethane
USEPA = United States Environmental Protection Agency

APPENDIX E TABLE E-19
RESULTS FOR FIXED GASES IN SOIL VAPOR
FORMER UNIT 3 POWER GENERATION FACILITY INVESTIGATION ANDHUMAN HEALTH RISK ASSESSMENT REPORT
POTRERO POWER PLANT SITE
SAN FRANCISCO, CALIFORNIA

Results reported in percent (%)

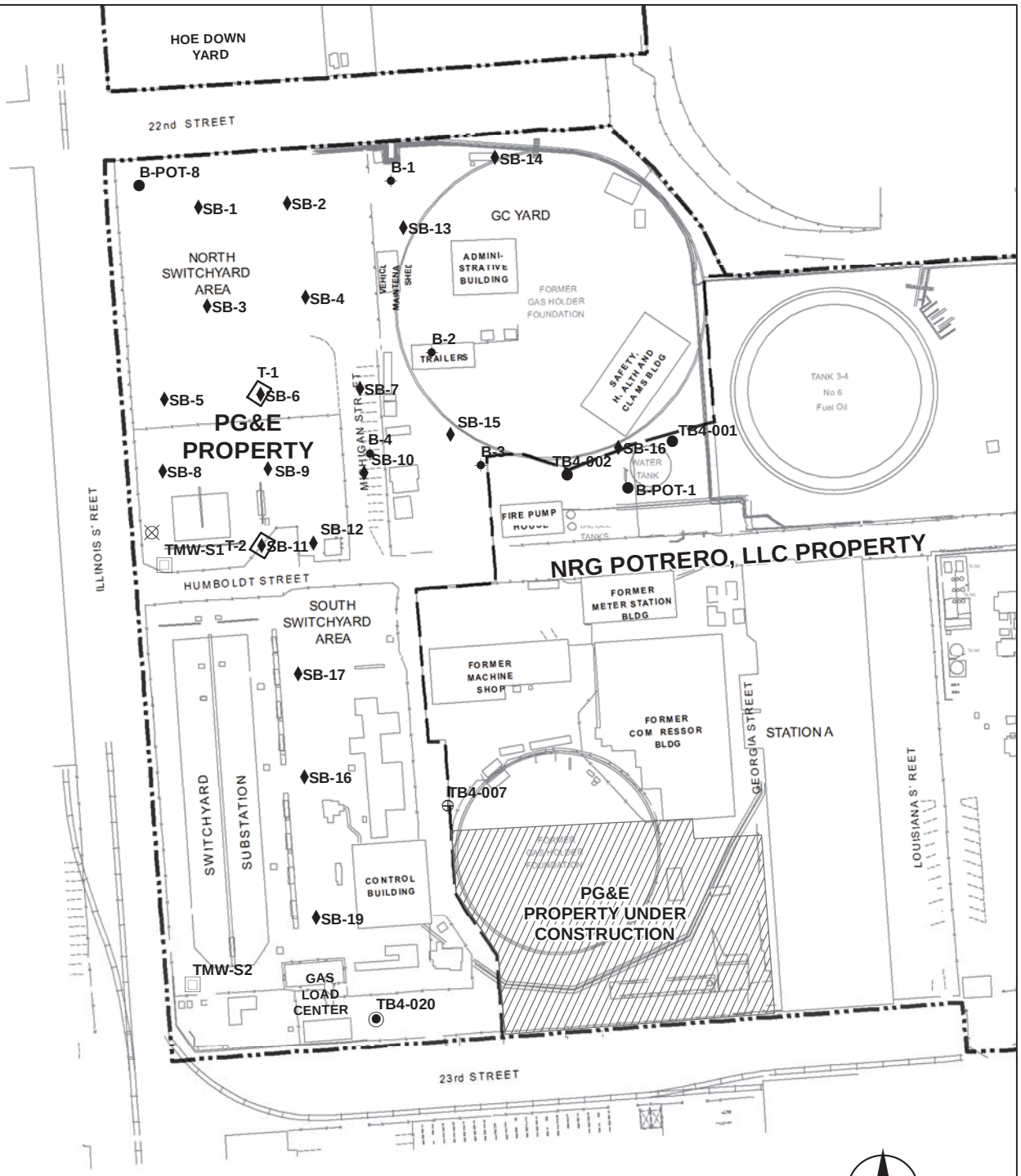
Location ID	Sample Depth (feet bgs)	Sample Date	Sample Type	Methane	Carbon Dioxide	Oxygen
AMEC, 2010 [1]						
SV-12A	3.5 - 4.0	09/16/2010	Field Measurment	ND	**0.3**	**19.7**
SV-12B	7.3 - 7.8	09/16/2010	Field Measurment	ND	**0.3**	**19.7**
SV-45	4.1 - 4.6	07/07/2010	Field Measurment	ND	**1.5**	**18.4**
SV-47	7.75 - 8.25	07/07/2010	Field Measurment	ND	**0.2**	**19.8**
Haley & Aldrich, 2015 [2]						
GB-108	5.0	12/29/2015	Field Measurment	ND	**3.2**	**13.1**
GB-110	5.0	12/28/2015	Field Measurment	ND	**3.5**	**15.3**
GB-114	5.0	12/28/2015	Field Measurment	ND	**1.4**	**19.4**
GB-117	5.0	12/28/2015	Field Measurment	ND	**0.9**	**18.9**

Notes:
1. Soil vapor was collected into a Tedlar® bag by AMEC and analyzed for methane, carbon dioxide, and oxygen using a GEM 2000 landfill gas meter (AMEC, 2010b).
2. Soil vapor was collected into a Tedlar® bag by Haley & Aldrich during purging and following soil vapor sampling, and analyzed for methane, carbon dioxide, and oxygen using a GEM 5000 landfill gas meter. The measurements presented represent the final purge volume of soil vapor collected prior to sampling.

Abbreviations:
bold indicates the compound was detected in the sample.
bgs = below ground surface
ND = not detected (reporting limit varies)

SWITCHYARD AND GENERAL CONSTRUCTION YARD AREAS

(Figure and Tables from "Updated Site Management Plan, Switchyard, Gas Load Center, and General Construction Yard, Potrero Power Plant Site, 1201 Illinois Street, San Francisco, California" dated August 2015, prepared by Haley & Aldrich, Inc.)



LEGEND

- APPROXIMATE GEOTECHNICAL BORING LOCATION (KLEINFELDER, 2004)
- BEDROCK MONITORING WELL LOCATION
- DEEP FILL MONITORING WELL LOCATION
- PREVIOUS GEOMATRIX SOIL BORING
- PREVIOUSLY ADVANCED SOIL BORING LOCATION
- PROPOSED CATHODIC PROTECTION WELL LOCATION
- TEMPORARY GROUNDWATER MONITORING WELL
- SITE BOUNDARY
- PROPERTY BOUNDARY
- PG&E PROPERTY UNDER CONSTRUCTION
- T-1 APPROXIMATE LOCATION OF TRENCH 1 SAMPLING
- T-2 APPROXIMATE LOCATION OF TRENCH 2 SAMPLING

N

0 75 150
SCALE IN FEET

HALEY ALDRICH
PIVOX Corporation

PACIFIC GAS AND ELECTRIC COMPANY (PG&E)
SITE MANAGEMENT PLAN
SWITCHYARD, GAS LOAD CENTER,
AND GENERAL CONSTRUCTION YARD
POTRERO POWER PLANT SITE
SAN FRANCISCO, CALIFORNIA

MONITORING WELL AND PREVIOUS SOIL AND GROUNDWATER SAMPLING LOCATIONS

AUGUST 2015

FIGURE 4

GIS FILE PATH: G:\37450 Potrero\Global\GIS\Maps\2015_04\37450-703-0004_SamplingLocations.mxd — USER: amcclure — LAST SAVED: 8/14/2015 1:49:45 PM

APPENDIX A

Soil and Groundwater Sampling Data Presented in the HHRA Report

TABLE A-1

SUMMARY OF DATA IN SOIL AND GROUNDWATER - METALS[1]

Potrero Power Plant Site
Switchyard and General Construction Yard
1201 Illinois Street
San Francisco, California

Boring Name	Sample Date	Sample Depth (feet bgs[2])	Antimony	Arsenic	Barium	Beryl-lium	Cadmium	Chrom-ium	Cobalt	Copper	Lead	Mercury	Molyb-denum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
Soil Samples (Concentrations in milligrams per kilogram [mg/kg])																			
SB-1	05/22/02	1.5	<2.0R [3,4]	1.9J-	37J-	<0.50UJ	2.3J-	460J-	37J-	15	25J-	0.13J+	<1.0UJ	750J-	<2.0UJ	<1.0	<1.0UJ	13J-	50J-
SB-1	05/22/02	7.5	<2.0R	<1.0UJ	<1.0UJ	<0.50UJ	2.3J-	770J-	68J-	7.5	<1.0UJ	<0.050	<1.0UJ	1400J-	<2.0UJ	<1.0	<1.0UJ	9.2J-	11J-
SB-2	05/22/02	2	<2.0R	2.5J-	59J-	<0.50UJ	2.7J-	210J-	26J-	24	24J-	0.077J+	<1.0UJ	360J-	<2.0UJ	<1.0	<1.0UJ	36J-	79J-
SB-2	05/22/02	7	<2.0R	<1.0UJ	1.0J-	<0.50UJ	1.9J-	670J-	58J-	16	<1.0UJ	<0.050	<1.0UJ	1000J-	<2.0UJ	<1.0	<1.0UJ	12J-	13J-
SB-3	05/22/02	1.2	<2.0R	2.7J-	22J-	<0.50UJ	6J-	42J-	27J-	40	3.2J-	<0.050	<1.0UJ	64J-	<2.0UJ	<1.0	<1.0UJ	100J-	60J-
SB-3	05/22/02	7	<2.0R	1.2J-	<1.0UJ	<0.50UJ	2J-	790J-	70J-	19	<1.0UJ	<0.050	<1.0UJ	1200J-	<2.0UJ	<1.0	<1.0UJ	12J-	11J-
SB-4	05/22/02	2	<2.0UJ	2.8	70	<0.50	3.0	400	35	23	92	0.29	<1.0	710	<2.0	<1.0	<1.0	16	160
SB-4	05/22/02	7.5	<2.0UJ	1.2	<1.0	<0.50	2.9	300	51	5.3	<1.0	<0.050	<1.0	1100	<2.0	<1.0	<1.0	9.8	12
SB-5	05/20/02	1	<2.0	1.6	47	<0.50	3.1	380	38	17	28	0.15J+	<1.0	670	<2.0	<1.0	<1.0	23	71
SB-5	05/20/02	7	<2.0	<1.0	<1.0	<0.50	2.7	370	43	5.2	<1.0	<0.050	<1.0	890	2.0	<1.0	<1.0	7.9	7.6
SB-6	05/20/02	1.5	<2.0	1.4	45	<0.50	6.6	25	32	43	2.1	<0.050	<1.0	33	<2.0	<1.0	<1.0	110	63
SB-6	05/20/02	8	<2.0	<1.0	<1.0	<0.50	2.5	500	51	5.0	<1.0	<0.050	<1.0	1000	<2.0	<1.0	<1.0	7.0	9.7
SB-7	05/22/02	2	<2.0UJ-	2.5	59	<0.50	2.8	410	36	14	19	0.1	<1.0	770	<2.0	<1.0	<1.0	16	38
SB-7	05/22/02	7	<2.0UJ	3.1	60	<0.50	1.9	340	29	12	4.8	<0.050	<1.0	390	<2.0	<1.0	<1.0	27	16
SB-8	05/20/02	2	<2.0UJ	<1.0	9.8J-	<0.50	3.0	350	51	5.9	2.6	<0.050	<1.0	1100	<2.0	<1.0	<1.0	6.8	14
SB-8	05/20/02	7	<2.0UJ	<1.0	2.8J-	<0.50	2.7	220	49	3.0	<1.0	<0.050	<1.0	950	<2.0	<1.0	<1.0	6.2	24
SB-9	05/20/02	2	<2.0UJ	3.6	59J-	<0.50	2.4	92	12	9.6	8.4	<0.050	<1.0	150	<2.0	<1.0	<1.0	35	30
SB-9	05/20/02	7.5	<2.0UJ	1.5	<1.0UJ	<0.50	4.6	250	31	<1.0	<1.0	<0.050	<1.0	660	<2.0	<1.0	<1.0	3.0	14
SB-10	05/22/02	2	<2.0R	2.7J-	99J-	<0.50UJ	2.9J-	260J-	35J-	28	45J-	0.16J+	<1.0UJ	520J-	<2.0UJ	<1.0	<1.0UJ	29J-	69J-
SB-10	05/22/02	7.5	<2.0UJ	1.1	1.0	<0.50	2.1	720	50	5.1	<1.0	<0.050	<1.0	1200	<2.0	<1.0	<1.0	13	8.2
SB-11	05/20/02	2	<2.0	1.6	130	<0.50	2.4	450	39	15	35	0.33J+	<1.0	790	<2.0	<1.0	<1.0	15	39
SB-11	05/20/02	7	<2.0	<1.0	3.8	<0.50	2.8	490	47	7.5	<1.0	<0.050	<1.0	750	<2.0	<1.0	<1.0	11	10
SB-12	05/20/02	2	<2.0UJ	4.0	160J-	<0.50	3.4	230	34	43	77	0.14	<1.0	660	<2.0	<1.0	<1.0	26	75
SB-12	05/20/02	7.5	<2.0UJ	1.3	6J-	<0.50	2.8	740	47	7.1	1.0	<0.050	<1.0	920	<2.0	<1.0	<1.0	13	13
SB-12	05/22/02	12	<2.0UJ	1.3	2.5	<0.50	3.1	710	55	6.3	<1.0	<0.050	<1.0	1200	<2.0	<1.0	<1.0	12	12
SB-13	05/22/02	2	<2.0UJ	1J-	1.1J-	<0.50UJ	2J-	920J-	71J-	18	<1.0UJ	<0.050	<1.0UJ	1100J-	<2.0UJ	<1.0	<1.0UJ	15J-	12J-
SB-13	05/22/02	6	<2.0UJ	1.3J-	1.1J-	<0.50UJ	2.1J-	710J-	47J-	5.5	<1.0UJ	<0.050	<1.0UJ	970J-	<2.0UJ	<1.0	<1.0UJ	14J-	11J-
SB-14	05/22/02	1.8	<2.0R	<1.0UJ	<1.0UJ	<0.50UJ	2.3J-	430J-	54J-	3.9	<1.0UJ	<0.050	<1.0UJ	1000J-	<2.0UJ	<1.0	<1.0UJ	8.8J-	10J-
SB-14	05/22/02	7	<2.0R	1.3J-	<1.0UJ	<0.50UJ	2.9J-	900J-	49J-	3.6	<1.0UJ	<0.050	<1.0UJ	970J-	<2.0UJ	<1.0	<1.0UJ	10J-	11J-
SB-15	05/22/02	2	<2.0UJ	3.1	25	<0.50	1.2	29	4.5	12	37	0.31	<1.0	34	<2.0	<1.0	<1.0	20	28
SB-15	05/22/02	7	<2.0UJ	1.5	1.1	<0.50	3.0	680	67	27	<1.0	<0.050	<1.0	1200	<2.0	<1.0	<1.0	14	14
SB-16	05/22/02	2	<2.0UJ	1.1	3.5	<0.50	2.3	320	39	2.7	1.2	<0.050	<1.0	790	<2.0	<1.0	<1.0	7.8	8.6
SB-16	05/22/02	7	<2.0UJ	1.3	<1.0	<0.50	2.7	270	74	1.8	<1.0	<0.050	<1.0	1500	<2.0	<1.0	<1.0	2.7	9.7
SB-17	05/20/02	2	3.5J-	25.0	160J-	<0.50	4.5	190	12	150	660	0.87	<1.0	210	<2.0	<1.0	<1.0	46	150

TABLE A-1

SUMMARY OF DATA IN SOIL AND GROUNDWATER - METALS[1]

Potrero Power Plant Site
Switchyard and General Construction Yard
1201 Illinois Street
San Francisco, California

Boring Name	Sample Date	Sample Depth (feet bgs[2])	Antimony	Arsenic	Barium	Beryl-lium	Cadmium	Chrom-ium	Cobalt	Copper	Lead	Mercury	Molyb-denum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
SB-17	05/20/02	4.5	<2.0UJ	1.1	3.4J-	<0.50	2.1	380	42	5.8	1.8	<0.050	<1.0	760	<2.0	<1.0	<1.0	9.6	11
SB-18	05/21/02	1	<2.0	13.0	11	<0.50	2.5	370	47	17	5.9	<0.050	<1.0	860	<2.0	<1.0	<1.0	10	19
SB-18	05/20/02	1.5	<2.0UJ	1.8	14J-	<0.50	2.1	420	40	16	2.3	<0.050	<1.0	750	<2.0	<1.0	<1.0	11	21
SB-18	05/20/02	2	<2.0UJ	2.3	89J-	<0.50	2.5	320	45	41	5.1	<0.050	<1.0	720	<2.0	<1.0	<1.0	9.9	34
SB-19	05/20/02	2	<2.0UJ	2.5	26J-	<0.50	1.8	210	21	14	35	0.075	<1.0	520	<2.0	<1.0	<1.0	21	47
SB-19	05/20/02	5	<2.0UJ	3.1	42J-	<0.50	1.3	41	6.6	6.1	39	0.057	<1.0	83	<2.0	<1.0	<1.0	18	45
TMW-S1	05/21/02	2	<2.0	4.8	120	<0.50	2.3	130	18	42	300	0.21J+	<1.0	230	<2.0	<1.0	<1.0	33	45
TMW-S1	05/21/02	7	<2.0	1.8	37	<0.50	3.3	420	24	72	3.8	0.086J+	<1.0	610	<2.0	<1.0	<1.0	24	64
TMW-S1	05/21/02	15	<2.0	<1.0	3.3	<0.50	3.0	460	49	16	<1.0	<0.050	<1.0	940	<2.0	<1.0	<1.0	12	17
TMW-S2	05/21/02	2	<2.0	23.0	140	<0.50	3.1	250	29	95	180	0.47J+	<1.0	620	<2.0	<1.0	<1.0	99	180
TMW-S2	05/21/02	6.5	<2.0	7.7	66	<0.50	2.9	340	37	39	84	0.53J+	<1.0	740	<2.0	<1.0	<1.0	48	60
TMW-S2	5/21/002	16.5	<2.0	<1.0	6.1	<0.50	2.6	590	53	11	4.1	0.081J+	<1.0	1100	<2.0	<1.0	<1.0	12	15
Representative Background[5]			5.9	14.0	358.8	0.9	1.5	91.4	22.0	59.6	14.7	0.3	3.2	120.2	5.6	1.7	42.5	78.2	91.5
Screening Criteria[6]			40	2.7	1500	8	12	750	80	225	750	10	40	150	10	40	29	200	600
Groundwater Samples (Concentrations in milligrams per liter [mg/l])																			
TMW-S1	06/03/02	NA[7]	0.0066	0.042J	0.045	<0.0050	<0.0020	0.069	<0.0050	<0.0050	<0.0050	<0.00020	<0.0050	0.0084	0.021	<0.0050	<0.0050	<0.0050	<0.010
TMW-S2	06/03/02	NA	<0.0050	0.024J	0.021	<0.0050	<0.0020	<0.0050	<0.0050	<0.0050	<0.0050	<0.00020	<0.0050	0.0059	0.0068	<0.0050	<0.0050	<0.0050	<0.010
TMW-S2 (dup)[8]	06/03/02	NA	<0.0050	0.018J	0.020	<0.0050	<0.0020	<0.0050	<0.0050	<0.0050	<0.0050	<0.00020	<0.0050	<0.0050	0.0080	<0.0050	<0.0050	<0.0050	<0.010
Screening Criteria			0.5[9]	0.036[9,10]	NC[11]	--	--	0.050[12]	--	--	--	--	--	0.071[12]	--	--	--	--	--

Notes:

1. CAM 17 metals analyzed using U.S. Environmental Protection Agency (EPA) Methods 7471A/6010B.
2. bgs = below ground surface.
3. < indicates constituent was not detected at a concentration equal to or greater than the reporting limit shown.
4. J = the result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample (J+ result may be biased high, J- result may be biased low). UJ = the analyte was analyzed for but not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise. R = the data are unusable. The sample results are rejected due to serious deficiencies in meeting quality control criteria. The analyte may or may not be present in the sample.
5. Regional background concentrations obtained from Lawrence Berkeley National Laboratory, 1995.
6. Risk-Based Screening Levels (RBSLs) and Decision Making to Sites with Impacted Soil and Groundwater. California Regional Water Quality Control Board, December, 2001, Table B2. Commercial/Industrial Category-Final RBSL: Surface Soil (equal or less than 3 meters bgs), groundwater is not a current or potential drinking water resource.
7. NA = not analyzed.
8. dup = duplicate sample.
9. U.S. EPA National Ambient Water Quality Criteria - Salt Water Aquatic Life Protection chronic exposure value shown. If no chronic value, the acute value is shown.
10. RBSLs Table F4b, Summary of California Toxics Risk, Continuous and Maximum Surface Water Standards for Salt Water.
11. NC = no salt water/seawater criteria available.
12. California Regional Water Quality Control Board, San Francisco Bay Region, Water Quality Control Plan, June 21, 1995.

TABLE A-2

SUMMARY OF DATA IN SOIL AND GROUNDWATER - PAHs[1]

Potrero Power Plant Site
Switchyard and General Construction Yard
1201 Illinois Street
San Francisco, California

Boring Name	Sample Date	Sample Depth (feet bgs[2])	Acenaph-thene	Acenaph-thylene	Anthra-cene	Benzo(a)-anthracene	Benzo(b) fluoran-thene	Benzo(k) fluoran-thene	Benzo (g,h,i) perylene	Benzo(a) pyrene	Chrysene	Dibenzo (a,h) anthracene	Fluor-anthene	Fluorene	Indeno (1,2,3-c,d) pyrene	Naph-thalene[3]	Phenan-threne	Pyrene
Soil Samples (Concentrations in milligrams per kilogram [mg/kg])																		
SB-1	5/22/02	1.5	<0.005[4]	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0065
SB-1	5/22/02	7.5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SB-2	5/22/02	2	0.16	<0.130	0.26	0.68	0.58	0.70	0.45	0.77	0.75	0.16	1.3	<0.130	0.42	<0.130	1.2	2.2
SB-2	5/22/02	4.6	<0.005	<0.005	<0.005	0.012	<0.005	<0.005	0.0093	0.03	<0.005	<0.005	0.0064	<0.005	<0.005	<0.005	<0.005	<0.005
SB-2	5/22/02	7	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SB-3	5/22/02	1.2	<0.05	<0.05	0.76	0.22	<0.05	0.35	0.11	0.13	0.24	0.053	0.40	<0.05	0.086	<0.05	0.36	0.65
SB-3	5/22/02	7	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SB-4	5/22/02	2	0.85	0.87	2.6	6.1	5.2	4.7	2.9	6.0	6.3	0.49	12	0.95	2.6	0.27	11	17
SB-4	5/22/02	5.3	<0.005	<0.005	<0.005	0.007	0.0062	0.0053	0.0055	0.0073	0.0076	<0.005	0.01	<0.005	<0.005	<0.005	0.0069	0.013
SB-4	5/22/02	7.5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SB-5	5/20/02	1	1.1	0.52	3.1	7.4	6.3	4.8	3.8	6.9	6.9	0.77	13	0.86	3.5	0.25	11	16
SB-5	5/20/02	7	<0.005	<0.005	<0.005	0.022	0.026	0.017	0.011	0.017	0.026	<0.005	0.036	<0.005	0.0092	<0.005	0.012	0.040
SB-6	5/20/02	1.5	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
SB-6	5/20/02	8	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0083	<0.005
SB-7	5/22/02	2	0.58	0.46	1.7	4.3	3.4	3.4	2.3	4.2	4.1	0.41	7.4	0.57	2.0	0.20	6.0	10
SB-7	5/22/02	7	2.3	<0.250	4.3	4.3	3.1	3.0	1.9	3.8	4.3	<0.250	9.1	2.3	1.6	1.4	14	13
SB-8	5/20/02	2	0.048	0.090	0.23	0.77	0.60	0.60	0.45	0.76	0.73	0.099	1.3	0.055	0.39	0.031	0.95	1.7
SB-8	5/20/02	7	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SB-9	5/20/02	2	0.0067	0.039	0.053	0.22	0.19	0.15	0.12	0.22	0.20	0.029	0.39	0.011	0.11	0.0076	0.16	0.47
SB-9	5/20/02	7.5	30J[5]	32J	94J	77J	50J	50J	31J	68J	74J	6.2J	190J	110J	26J	840J	350J	240J
SB-10	5/22/02	2	1.7	0.95	3.4	7.2	5.7	6.0	3.8	7.2	7.2	1.6	13	1.5	3.3	0.55	12	18
SB-10	5/22/02	7.5	16J	39J	68J	60J	44J	35J	22J	49J	56J	3.9J	140J	61J	20J	84J	230J	170J
SB-10	5/22/02	10.5	5J	1.6J	5.8J	2.8J	1.4J	0.91J	0.52J	1.5J	4.1J	<0.50UJ	9.5J	5.7J	<0.50UJ	4.9J	20J	14J
SB-10	5/22/02	12	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.006	<0.005	<0.005	<0.005	0.0059	0.0064
SB-11	5/20/02	2	2.3	3.0	9.3	26	20	18	12	23	22	2.7	49	2.7	11	0.74	29	56
SB-11	5/20/02	7	<0.005	<0.005	<0.005	<0.005	0.011	0.0054	0.021	0.015	0.0080	<0.005	<0.005	<0.005	0.012	<0.005	<0.005	0.0089
SB-12	5/20/02	2	0.25J	0.57J	0.94J	4.1J	3.1J	3.5J	2.9J	4.2J	4.2J	0.39J	6.9J	<0.25UJ	2.3J	0.47J	5.2J	12J
SB-12	5/20/02	7.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.066	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
SB-12	5/22/02	12	10J	22J	46J	38J	27J	23J	12J	32J	33J	<2.5J	92J	55J	11J	3300J	160J	110J
SB-13	5/22/02	2	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SB-13	5/22/02	6	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SB-14	5/22/02	1.8	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SB-14	5/22/02	7	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0052	<0.005	<0.005
SB-15	5/22/02	2	<0.025	<0.025	<0.025	0.054	0.059	0.042	0.066	0.067	0.064	<0.025	<0.025	<0.025	0.043	<0.025	<0.025	0.13

TABLE A-2

SUMMARY OF DATA IN SOIL AND GROUNDWATER - PAHs[1]

Potrero Power Plant Site
Switchyard and General Construction Yard
1201 Illinois Street
San Francisco, California

Boring Name	Sample Date	Sample Depth (feet bgs[2])	Acenaph-thene	Acenaph-thylene	Anthra-cene	Benzo(a)-anthracene	Benzo(b) fluoran-thene	Benzo(k) fluoran-thene	Benzo (g,h,i) perylene	Benzo(a) pyrene	Chrysene	Dibenzo (a,h) anthracene	Fluor-anthene	Fluorene	Indeno (1,2,3-c,d) pyrene	Naph-thalene[3]	Phenan-threne	Pyrene
SB-15	5/22/02	7	<0.005	<0.005	0.017	0.0055	<0.005	0.007	<0.005	<0.005	0.0062	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.017
SB-16	5/22/02	2	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SB-16	5/22/02	7	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SB-17	5/20/02	2	<1.0UJ	11J	6.2J	25J	44J	24J	46J	38J	31J	6.2J	60J	2.2J	36J	4.5J	47J	79J
SB-17	5/20/02	4.5	<0.005	0.010	0.0056	0.042	0.059	0.053	0.068	0.059	0.046	0.0082	0.050	<0.005	0.052	<0.005	0.026	0.11
SB-18	5/20/02	1	<0.005	0.010	0.0094	0.052	0.060	0.056	0.065	0.067	0.060	0.0062	0.12	<0.005	0.049	<0.005	0.068	0.17
SB-18	5/20/02	1.5	0.008	<0.005	0.011	0.015	0.011	0.0096	0.0058	0.011	0.014	<0.005	0.034	0.007	0.0054	0.005	0.042	0.039
SB-18	5/20/02	2	0.11	0.045	0.19	0.27	0.30	0.22	0.25	0.30	0.31	0.028	0.66	0.10	0.20	0.11	0.70	0.86
SB-19	5/20/02	2	<0.05	0.065	0.052	0.38	0.46	0.33	0.50	0.50	0.46	0.067	0.72	<0.05	0.37	<0.05	0.41	1.0
SB-19	5/20/02	5	<0.005	0.0096	0.0076	0.052	0.080	0.053	0.080	0.086	0.065	0.010	0.12	<0.005	0.063	<0.005	0.067	0.17
TMW-S1	5/21/02	2	0.0076	0.0055	0.034	0.17	0.21	0.18	0.20	0.26	0.16	0.059	0.20	0.0062	0.17	<0.005	0.11	0.26
TMW-S1	5/21/02	7	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TMW-S1	5/21/02	15	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TMW-S2	5/21/02	2	<0.50UJ	2.8J	2.4J	12J	15J	11J	16J	17J	14J	2.4J	25J	0.7J	12J	1.4J	18J	37J
TMW-S2	5/21/02	6.5	<0.25	0.67	0.47	2.9	3.9	3.2	4.4	4.6	3.5	0.69	5.6	<0.25	3.1	0.33	2.9	8.6
TMW-S2	5/21/02	16.5	<0.005	<0.005	<0.005	0.0063	0.0079	0.0054	0.0066	0.0067	0.0073	<0.005	0.0092	<0.005	0.0052	<0.005	<0.005	0.015
Screening Criteria[6]			16	120	2.9	1.8	1.8	1.8	5.3	0.18	4.7	0.51	40	5.1	1.8	4.9	11	55
Groundwater Samples (Concentrations in micrograms per liter [mg/l])																		
TMW-S1	6/3/02	NA[7]	<0.01	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.11
TMW-S2	6/3/02	NA	0.093	0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	0.37J	3.9J	<0.13	0.23	0.48	0.43J
TMW-S2 (dup)[8]	6/3/02	NA	0.76J	0.18J	0.15J	0.2J	0.16J	0.15J	0.16J	0.19J	0.16J	<0.11UJ	0.59J	2.8J	0.12J	0.22J	0.5J	0.69J
Screening Criteria[9]			2350	300	700	300	300(0.0046p)	300	16	300	300	300	300	300	300	300	300	300

Notes:

1. Polynuclear aromatic hydrocarbons (PNAs) analyzed using U.S. Environmental Protection Agency (EPA) Method 8270C Selected Ion Monitoring (SIM).
2. bgs = below ground surface.
3. Some samples analyzed for naphthalene using both EPA Method 8270C SIM and EPA Method 8260B; highest detected concentration or laboratory reporting limit shown here
4. < indicates constituent was not detected at a concentration equal to or greater than the reporting limit shown.
5. J = detected concentration is estimated; UJ = concentration below reporting limit is estimated.
6. Risk-Based Screening Levels (RBSLs) and Decision Making to Sites with Impacted Soil and Groundwater. California Regional Water Quality Control Board December, 2001, Table B2. Commercial/Indusrial Category-Final RBSL: Surface Soil
7. NA = not analyzed.
8. dup = duplicate sample.
9. U.S. EPA National Ambient Water Quality Criteria - Salt Water Aquatic Life Protection chronic exposure value shown. If no chronic value, the acute value is shown.

TABLE A-3

SUMMARY OF DATA IN SOIL AND GROUNDWATER—TPHd, TPHmo, AND DETECTED VOCs[1, 2]

Potrero Power Plant Site
Switchyard and General Construction Yard
1201 Illinois Street
San Francisco, California

Boring Name	Sample Date	Sample Depth (feet bgs[3])	TPH as Diesel	TPH as Motor Oil	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Styrene	1,2,4-trimethyl-benzene	p-isopropyl-toluene	Naphtha-lene
Soil Samples (Concentrations in milligrams per kilogram [mg/kg])												
SB-1	5/22/02	1.5	3.5	<50[4]	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SB-1	5/22/02	7.5	1.2	<50	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SB-2	5/22/02	2	34J[5]	450J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SB-2	5/22/02	4.6	200	460	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SB-4	5/22/02	2	770J	<2500UJ	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SB-4	5/22/02	5.3	20	74	NA[6]	NA	NA	NA	NA	NA	NA	NA
SB-4	5/22/02	7.5	94	<50	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SB-6	5/20/02	1.5	19	270	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SB-6	5/20/02	8	1.2	<50	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SB-10	5/22/02	2	180J	410J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SB-10	5/22/02	7.5	5600J	<2500UJ	<0.5	<0.5	1.2	3.8	1.3	1.0	0.66	77
SB-10	5/22/02	10.5	8900J	8400J	<0.25	<0.25	0.59	1.7	<0.25	0.33	0.40	6.5
SB-10	5/22/02	12	4.2	<50	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SB-11	5/20/02	2	250J	510J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SB-11	5/20/02	7	270	100	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SB-12	5/20/02	2	140J	490J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SB-12	5/20/02	7.5	600J	<500UJ	0.020	<0.005	0.0056	<0.005	<0.005	<0.005	<0.005	0.021
SB-12	5/22/02	12	3200J	2100J	26J	31J	61J	200J	62J	<25UJ	<25UJ	1300J
SB-13	5/22/02	2	1.6	<50	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SB-13	5/22/02	6	3.8	<50	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SB-15	5/22/02	2	170J	630J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SB-15	5/22/02	7	<1.0	<50	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SB-16	5/22/02	2	<1.0	<50	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SB-16	5/22/02	7	<1.0	<50	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.048
SB-18	5/21/02	1	3.1	<50	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SB-18	5/20/02	1.5	1.1	<50	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SB-18	5/20/02	2	2.4	<50	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TMW-S1	5/21/02	2	3.0	<50	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

TABLE A-3

SUMMARY OF DATA IN SOIL AND GROUNDWATER—TPHd, TPHmo, AND DETECTED VOCs[1, 2]

Potrero Power Plant Site
Switchyard and General Construction Yard
1201 Illinois Street
San Francisco, California

Boring Name	Sample Date	Sample Depth (feet bgs[3])	TPH as Diesel	TPH as Motor Oil	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Styrene	1,2,4-trimethyl-benzene	p-isopropyl-toluene	Naphtha-lene
TMW-S1	5/21/02	7	<1.0	<50	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TMW-S1	5/21/02	15	1.2[7]	<50	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TMW-S2	5/21/02	2	330J	<5100UJ	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TMW-S2	5/21/02	6.5	170J	<5100UJ	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TMW-S2	5/21/02	16.5	1.5[7]	<50	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Screening Criteria[8]			500	1000	0.39	8.4	24	1	17	--	--	--
Groundwater Samples (Concentrations in micrograms per liter [mg/l])												
TMW-S1	6/3/02	NA	<50	<500	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<1.0	<1.0
TMW-S2	6/3/02	NA	390[7]J	<630	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<1.0	<1.0
TMW-S2 (dup)[9]	6/3/02	NA	620[7]J	<590	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<1.0	<1.0
Screening Criteria			540-30800	--	--	--	--	--	--	--	--	--

Notes:

1. TPHd = total petroleum hydrocarbons as diesel; TPHmo = total petroleum hydrocarbons as motor oil; VOC = volatile organic compound.
2. TPHd and TPHmo analyzed using U.S. Environmental Protection Agency (EPA) Method 8015, and VOCs analyzed using EPA Method 8260B.
3. bgs = below ground surface.
4. < indicates constituent was not detected at a concentration equal to or greater than the reporting limit shown.
5. J = the analyte was positively identified; the associated numerical value is the approximate concentration of analyte in the sample. UJ = the analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
6. NA = not analyzed.
7. Hydrocarbon reported does not match laboratory diesel standard.
8. Risk-Based Screening Levels (Rebels) and Decision Making to Sites with Impacted Soil and Groundwater. California Regional Water Quality Control Board, December, 2001, Table B2. Commercial/Industrial Category-Final RBSL: Surface Soil (equal or less than 3 meters bgs), groundwater is not a current or potential drinking water resource.
9. dup = duplicate sample.
10. Range of values developed for or applied to other San Francisco Bay Area sites. See Appendix I of this report for references.

TABLE A-4

SUMMARY OF DATA IN SOIL AND GROUNDWATER - PHENOLS[1]
Potrero Power Plant Site
Switchyard and General Construction Yard
1201 Illinois Street
San Francisco, California

Boring Name	Sample Date	Sample Depth (feet bgs[2])	Phenol	2-Chlorophenol	2-Methylphenol	4-Methylphenol	2-Nitrophenol	2,4-Dimethylphenol	2,4-Dichlorophenol	4-Chloro-3-methylphenol	2,4,6-Trichlorophenol	2,4,5-Trichlorophenol	2,4-Dinitrophenol	4-Nitrophenol	2-Methyl-4,6-dinitrophenol	Pentachloro-phenol
Soil Samples (Concentrations in milligrams per kilogram [mg/kg])																
SB-1	5/22/2002	1.5	<0.067[3]	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	<0.17	<0.067	<0.067	<0.33	<0.33	<0.33	<0.33
SB-1	5/22/2002	7.5	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	<0.17	<0.067	<0.067	<0.33	<0.33	<0.33	<0.33
SB-4	5/22/2002	2	<3.4UJ[4]	<3.4UJ	<3.4UJ	<3.4UJ	<3.4UJ	<3.4UJ	<3.4UJ	<8.5UJ	<3.4UJ	<3.4UJ	<17UJ	<17UJ	<17UJ	<17UJ
SB-4	5/22/2002	7.5	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	<0.17	<0.067	<0.067	<0.33	<0.33	<0.33	<0.33
SB-6	5/20/2002	1.5	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.85	<0.34	<0.34	<1.7	<1.7	<1.7	<1.7
SB-6	5/20/2002	8	<0.067R	<0.067R	<0.067R	<0.067R	<0.067R	<0.067R	<0.067R	<0.17R	<0.067R	<0.067R	<0.33R	<0.33R	<0.33R	<0.33R
SB-10	5/22/2002	2	<1.7UJ	<1.7UJ	<1.7UJ	<1.7UJ	<1.7UJ	<1.7UJ	<1.7UJ	<4.3UJ	<1.7UJ	<1.7UJ	<8.3UJ	<8.3UJ	<8.3UJ	<8.3UJ
SB-10	5/22/2002	7.5	<3.4UJ	<3.4UJ	<3.4UJ	<3.4UJ	<3.4UJ	<3.4UJ	<3.4UJ	<8.5UJ	<3.4UJ	<3.4UJ	<17UJ	<17UJ	<17UJ	<17UJ
SB-10	5/22/2002	10.5	<0.67UJ	<0.67UJ	<0.67UJ	<0.67UJ	<0.67UJ	<0.67UJ	<0.67UJ	<1.7UJ	<0.67UJ	<0.67UJ	<3.3UJ	<3.3UJ	<3.3UJ	<3.3UJ
SB-10	5/22/2002	12	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	<0.17	<0.067	<0.067	<0.33	<0.33	<0.33	<0.33
SB-11	5/20/2002	2	<1.7UJ	<1.7UJ	<1.7UJ	<1.7UJ	<1.7UJ	<1.7UJ	<1.7UJ	<4.3UJ	<1.7UJ	<1.7UJ	<8.3UJ	<8.3UJ	<8.3UJ	<8.3UJ
SB-11	5/20/2002	7	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	<0.17	<0.067	<0.067	<0.33	<0.33	<0.33	<0.33
SB-12	5/20/2002	2	<0.67UJ	<0.67UJ	<0.67UJ	<0.67UJ	<0.67UJ	<0.67UJ	<0.67UJ	<1.7UJ	<0.67UJ	<0.67UJ	<3.3UJ	<3.3UJ	<3.3UJ	<3.3UJ
SB-12	5/20/2002	7.5	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.85	<0.34	<0.34	<1.7	<1.7	<1.7	<1.7
SB-12	5/22/2002	12	<1.7UJ	<1.7UJ	<1.7UJ	<1.7UJ	<1.7UJ	3.3UJ	<1.7UJ	<4.3UJ	<1.7UJ	<1.7UJ	<8.3UJ	<8.3UJ	<8.3UJ	<8.3UJ
SB-13	5/22/2002	2	<0.067R	<0.067R	<0.067R	<0.067R	<0.067R	<0.067R	<0.067R	<0.17R	<0.067R	<0.067R	<0.33R	<0.33R	<0.33R	<0.33R
SB-13	5/22/2002	6	<0.067R	<0.067R	<0.067R	<0.067R	<0.067R	<0.067R	<0.067R	<0.17R	<0.067R	<0.067R	<0.33R	<0.33R	<0.33R	<0.33R
SB-15	5/22/2002	2	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.85	<0.34	<0.34	<1.7	<1.7	<1.7	<1.7
SB-15	5/22/2002	7	<0.067R	<0.067R	<0.067R	<0.067R	<0.067R	<0.067R	<0.067R	<0.17R	<0.067R	<0.067R	<0.33R	<0.33R	<0.33R	<0.33R
SB-16	5/22/2002	2	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	<0.17	<0.067	<0.067	<0.33	<0.33	<0.33	<0.33
SB-16	5/22/2002	7	<0.067R	<0.067R	<0.067R	<0.067R	<0.067R	<0.067R	<0.067R	<0.17R	<0.067R	<0.067R	<0.33R	<0.33R	<0.33R	<0.33R
SB-18	5/20/2002	1	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	<0.17	<0.067	<0.067	<0.33	<0.33	<0.33	<0.33
SB-18	5/20/2002	1.5	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	<0.17	<0.067	<0.067	<0.33	<0.33	<0.33	<0.33
SB-18	5/20/2002	2	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	<0.17	<0.067	<0.067	<0.33	<0.33	<0.33	<0.33
TMW-S1	5/21/2002	2	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.85	<0.34	<0.34	<1.7	<1.7	<1.7	<1.7
TMW-S1	5/21/2002	7	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	<0.17	<0.067	<0.067	<0.33	<0.33	<0.33	<0.33
TMW-S1	5/21/2002	15	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	<0.17	<0.067	<0.067	<0.33	<0.33	<0.33	<0.33
TMW-S2	5/21/2002	2	<3.4UJ	<3.4UJ	<3.4UJ	<3.4UJ	<3.4UJ	<3.4UJ	<3.4UJ	<8.5UJ	<3.4UJ	<3.4UJ	<17UJ	<17UJ	<17UJ	<17UJ
TMW-S2	5/21/2002	6.5	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<1.7	<0.67	<0.67	<3.3	<3.3	<3.3	<3.3
TMW-S2	5/21/2002	16.5	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	<0.17	<0.067	<0.067	<0.33	<0.33	<0.33	<0.33
Screening Criteria[5]			39	0.12	--	--	--	0.74	3	--	10	0.18	0.42	--	--	5
Groundwater Samples (Concentrations in milligrams per liter [mg/l])																
TMW-S1	6/3/2002	NA[6]	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.005	<0.002	<0.002	<0.01	<0.01	<0.01	<0.01
TMW-S2	6/3/2002	NA	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.005	<0.002	<0.002	<0.01	<0.01	<0.01	<0.01
MW-S2 (du	6/3/2002	NA	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.005	<0.002	<0.002	<0.01	<0.01	<0.01	<0.01

Notes:
1. Phenols analyzed using U.S. Environmental Protection Agency (EPA) Method 8270C.
2. bgs = below ground surface.
3 . < indicates constituent was not detected at a concentration equal to or greater than the reporting limit shown.
4. J = the analyte was positively identified; the associated numerical value is the approximate concentration of analyte in the sample. UJ = the analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample. R = the sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria.
5. Risk-Based Screening Levels (RBSLs) and Decision Making to Sites with Impacted Soil and Groundwater. California Regional Water Quality Control Board, December, 2001, Table B2. Commercial/Industrial Category-Final RBSL: Surface Soil (equal or less than meters bgs), groundwater is not a current or potential drinking water resource.
6. NA = not analyze
7. dup = duplicate sample.

TABLE A-5

SUMMARY OF DATA IN SOIL - PESTICIDES AND PCBS[1]
Potrero Power Plant Site
Switchyard and General Construction Yard
1201 Illinois Street
San Francisco, California

Concentrations in milligrams per kilogram (mg/kg)

Boring Name	Sample Date	Sample Depth (feet bgs[2])	Aldrin	Dieldrin	Endrin aldehyde	Endrin	Endrin ketone	Hept achlor	Hept achlor epoxide	4,4'-DDT	4,4'-DDE	4,4'-DDD	Endo sulfan I	Endo sulfan II	alpha-BHC	beta-BHC	gamma-BHC (Lindane)	delta-BHC	Endo culfan sulfate	4,4'-Methox ychlor	Chlordane (Technical)	alpha-Chlordane	gamma-Chlordane	Toxa-phene	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
SB-1	05/22/02	1.5	<0.002[3]	<0.002	<0.002	<0.002	<0.002	0.0026	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.05	<0.002	<0.002	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
SB-1	05/22/02	7.5	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.05	<0.002	<0.002	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
SB-6	05/20/02	1.5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.25	<0.01	<0.01	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
SB-6	05/20/02	8	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.05	<0.002	<0.002	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
SB-8	05/20/02	2	NA[4]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
SB-8	05/20/02	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
SB-9	05/20/02	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
SB-9	05/20/02	7.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.05UJ	<0.05UJ	<0.05UJ	<0.05UJ	<0.05UJ	<0.05UJ	<0.05UJ
SB-10	05/22/02	2	<0.01	<0.01	<0.01	<0.01	0.019	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.12	<0.25	<0.01	<0.01	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
SB-10	05/22/02	7.5	<0.04UJ[5]	<0.04UJ	<0.04UJ	<0.04UJ	<0.04UJ	0.095J	<0.04UJ	<0.04UJ	0.049J	<0.04UJ	<0.04UJ	<0.04UJ	<0.04UJ	<0.04UJ	0.41J	<0.04UJ	<0.04UJ	<0.04UJ	<1.0UJ	<0.04UJ	<0.04UJ	<2.0UJ	<0.05R	<0.05R	<0.05R	<0.05R	<0.05R	<0.05R	<0.05R
SB-10	05/22/02	12	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.05	<0.002	<0.002	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
SB-11	05/20/02	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
SB-11	05/20/02	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
SB-12	05/20/02	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
SB-12	05/20/02	7.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
SB-12	05/22/02	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.05UJ	<0.05UJ	<0.05UJ	<0.05UJ	<0.05UJ	<0.05UJ	<0.05UJ
SB-16	05/22/02	2	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.05	<0.002	<0.002	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
SB-16	05/22/02	7	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.05	<0.002	<0.002	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
SB-17	05/20/02	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.5UJ	<0.5UJ	<0.5UJ	<0.5UJ	<0.5UJ	<0.5UJ	<0.5UJ
SB-17	05/20/02	4.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
SB-18	05/21/02	1	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.05	<0.002	<0.002	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
SB-18	05/20/02	1.5	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.05	<0.002	<0.002	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
SB-18	05/20/02	2	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.25	<0.01	<0.01	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
SB-19	05/20/02	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
SB-19	05/20/02	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
TMW-S1	05/21/02	2	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.25	<0.01	<0.01	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
TMW-S1	05/21/02	7	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.05	<0.002	<0.002	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
TMW-S1	05/21/02	15	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.05	<0.002	<0.002	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
TMW-S2	05/21/02	2	<0.01	<0.01	<0.01	0.019	<0.01	0.016	<0.01	<0.01	0.021	<0.01	<0.01	<0.01	<0.01	<0.01	0.081	<0.01	<0.01	<0.01	<0.25	<0.01	<0.01	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
TMW-S2	05/21/02	6.5	<0.01	<0.01	<0.01	0.011	<0.01	<0.01	<0.01	<0.01	0.013	<0.01	<0.01	<0.01	<0.01	<0.01	0.041	<0.01	<0.01	<0.01	<0.25	<0.01	<0.01	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
TMW-S2	05/21/02	16.5	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.05	<0.002	<0.002	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Screening Criteria[6]			0.15	0.002	--	0.0006	--	0.013	0.014	4	4	17	0.005	0.005	--	--	0.049	--	--	19	2.9	--	--	--	1.0	1.0	1.0	1.0	1.0	1.0	1.0

Notes:
1. Pesticides analyzed using U.S. Environmental Protection Agency (EPA) Method 8081; polychlorinated biphenyls (PCBs) analyzed using EPA Method 8082.
2. bgs = below ground surface.
3. "<" indicates constituent was not detected at a concentration equal to or greater than the reporting limit shown.
4. NA = not analyzed.
5. J = the analyte was positively identified; the associated numerical value is the approximate concentration of analyte in the sample.
UJ = the analyte was not detected above the reported sample quantitation limit. However, the reported quantitation ncessary to accurately and precisely measure the analyte in the sample.
R = the sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

6. Risk-Based Screening Levels (RBSLs) and Decision Making to Sites with Impacted Soil and Groundwater. California Regional Water Quality Control Board, December, 2001, Table B2.
Commercial/Indusrial Category-Final RBSL: Surface Soil (equal or less than 3 meters bgs), groundwater is not current or potential drinking water resource.

TABLE A-6

SUMMARY OF DATA IN SOIL AND GROUNDWATER - CYANIDE

Potrero Power Plant Site
Switchyard and General Construction Yard
1201 Illinois Street
San Francisco, California

Boring Name	Sample Date	Sample Depth (feet bgs[1])	Total Cyanide[2]	Weak Acid Dissociable Cyanide[3]
Soil Samples (Concentrations in milligrams per kilogram [mg/kg])				
SB-1	5/22/02	1.5	<0.46[4]	NA[5]
SB-1	5/22/02	7.5	<0.48	NA
SB-2	5/22/02	2	<0.52	NA
SB-2	5/22/02	7	<0.43	NA
SB-3	5/22/02	1.2	<0.54	NA
SB-3	5/22/02	7	<0.51	NA
SB-4	5/22/02	2	0.68	NA
SB-4	5/22/02	7.5	<0.37	NA
SB-5	5/20/02	1	<0.55	NA
SB-5	5/20/02	7	<0.54	NA
SB-6	5/20/02	1.5	<0.49	NA
SB-6	5/20/02	8	<0.40	NA
SB-7	5/22/02	2	<0.53	NA
SB-7	5/22/02	7	0.56	NA
SB-8	5/20/02	2	<0.49	NA
SB-8	5/20/02	7	<0.38	NA
SB-9	5/20/02	2	<0.48	NA
SB-9	5/20/02	7.5	<0.46	NA
SB-10	5/22/02	2	<0.38	NA
SB-10	5/22/02	7.5	<0.63	NA
SB-10	5/22/02	10.5	0.64J-[6]	NA
SB-10	5/22/02	12	<0.51/<0.43[7]UJ	NA
SB-11	5/20/02	2	0.80	NA
SB-11	5/20/02	7	<0.48	NA
SB-12	5/20/02	2	<0.36	NA
SB-12	5/20/02	7.5	0.91	NA
SB-12	5/22/02	12	<0.38/<0.37[7]UJ	NA
SB-13	5/22/02	2	<0.41	NA
SB-13	5/22/02	6	<0.53	NA
SB-14	5/22/02	1.8	<0.45	NA
SB-14	5/22/02	7	<0.44	NA
SB-15	5/22/02	2	<0.37	NA
SB-15	5/22/02	7	<0.38	NA
SB-16	5/22/02	2	<0.39	NA
SB-16	5/22/02	7	<0.54	NA
SB-17	5/20/02	2	9.2	NA
SB-17	5/20/02	4.5	<0.53	NA
SB-18	5/21/02	1	0.88	NA
SB-18	5/20/02	1.5	<0.44	NA
SB-18	5/20/02	2	<0.34	NA
SB-19	5/20/02	2	0.38	NA

TABLE A-6

SUMMARY OF DATA IN SOIL AND GROUNDWATER - CYANIDE

Potrero Power Plant Site
Switchyard and General Construction Yard
1201 Illinois Street
San Francisco, California

Boring Name	Sample Date	Sample Depth (feet bgs[1])	Total Cyanide[2]	Weak Acid Dissociable Cyanide[3]
SB-19	5/20/02	5	<0.46	NA
TMW-S1	5/21/02	2	0.92	NA
TMW-S1	5/21/02	7	<0.49	NA
TMW-S1	5/21/02	15	<0.38	NA
TMW-S2	5/21/02	2	5.7	NA
TMW-S2	5/21/02	6.5	<0.43	NA
TMW-S2	5/21/02	16.5	<0.52	NA
Screening Criteria[8]			500	--
Groundwater Samples (Concentrations in milligrams per liter [mg/l])				
TMW-S1	6/3/02	NA	0.018J	<0.010
TMW-S2	6/3/02	NA	0.021J	<0.010
TMW-S2 (dup)[9]	6/3/02	NA	0.023J	<0.010
Screening Criteria[10]			--	0.001

Notes:

1. bgs = below ground surface.
2. Total cyanide analyzed using U.S. Environmental Protection Agency (EPA) SW846 Methods 9010B/9014.
3. Weak acid dissociable cyanide analyzed using EPA Method 4500CNI.
4. < indicates constituent was not detected at a concentration equal to or greater than the reporting limit shown.
5. NA = not analyzed.
6. J = the result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample (J- result may be biased low). UJ = the analyte was analyzed for but not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
7. Sample analyzed twice for total cyanide; results presented for both analyses.
8. Risk-Based Screening Levels and Decision Making to Sites with Impacted Soil and Groundwater. California Regional Water Quality Control Board, December, 2001 Table B2. Commercial/Industrial Category-Final RBSL: Surface Soil (equal or less than 3 meters bgs), groundwater is not a current or potential drinking water resource.
9. dup = duplicate sample.
10. U.S. EPA National Ambient Water Quality–Salt Water Aquatic Life Protection chronic exposure value shown.If no chronic value, the acute value is show.

TABLE A-7

SUMMARY OF DATA IN SOIL - ASBESTOS[1]
Potrero Power Plant Site
Switchyard and General Construction Yard
1201 Illinois Street
San Francisco, California

Boring Name	Sample Date	Sample Depth (feet bgs[2])	Asbestos Level
SB-1	5/22/2002	1.5	Trace[3]
SB-1	5/22/2002	7.5	<1%[4]
SB-4	5/22/2002	2	<1%
SB-4	5/22/2002	7.5	3%
SB-6	5/20/2002	1.5	<1%
SB-6	5/20/2002	8	2%
SB-10	5/22/2002	2	<1%
SB-10	5/22/2002	7.5	<1%
SB-10	5/22/2002	12	2%
SB-11	5/20/2002	2	2%
SB-11	5/20/2002	7	2%
SB-12	5/20/2002	2	<1%
SB-12	5/20/2002	7.5	Trace
SB-12	5/22/2002	12	<1%
SB-13	5/22/2002	2	3%
SB-13	5/22/2002	6	<1%
SB-15	5/22/2002	2	<1%
SB-15	5/22/2002	7	<1%
SB-16	5/22/2002	2	Trace
SB-16	5/22/2002	7	Trace
SB-18	5/20/2002	1	Trace
SB-18	5/20/2002	1.5	Trace
SB-18	5/20/2002	2	Trace
TMW-S1	5/21/2002	2	<1%
TMW-S1	5/21/2002	7	<1%
TMW-S1	5/21/2002	11.5	<1%
TMW-S1	5/21/2002	15	<1%
TMW-S2	5/21/2002	2	<1%
TMW-S2	5/21/2002	6.5	<1%
TMW-S2	5/21/2002	16.5	<1%

Notes:

1. Asbestos analyzed by U.S. Environmental Protection Agency (EPA) Method 600/R-93-116, Visual Area Estimation.
2. bgs = below ground surface.
3. Trace indicates less than 1% asbestos was observed in the sample.
4. < 1% indicates asbestos was not observed in the sample.

TABLE A-8

HISTORICAL SAMPLING DATA - METALS IN SOIL[1]
Potrero Power Plant Site
Switchyard and General Construction Yard
1201 Illinois Street
San Francisco, California

Concentrations in milligrams per kilogram (mg/kg)

Boring Name	Sample Date[2]	Sample Depth (feet)	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
B-POT-1	2/28/91	2.0	<6.3[3]	<0.53	78	<0.53	2.8	26	6.1	29	44	0.64	<1	36	<21	<1	<10	27	41
	2/28/91	8.5	<6.7	<0.56	<2.2	<0.56	6.5	610	77	12	<5.6	<0.11	<1.1	1700	<22	<1.1	<11	18	34
B-POT-8	2/27/91	3.5	<6.7	<0.56	<2.2	<0.56	6.4	900	73	19	<5.6	<0.11	<1.1	1600	<22	<1.1	<17	27	29
	2/27/91	6.0	<6.6	<0.55	<2.2	<0.55	6.2	130	18	9.3	<5.5	<0.11	<1.1	280	<22	<1.1	<16	13	17
TB4-001	12/3/97	0.5	<6	<0.5	<20	<0.5	<2	519	83.9	11.9	<0.4	<0.05	<10	1610	1.8	<2	<2	18.5	18.2
TB4-002[4]	12/8/97	0.5	<6	3.7	149	<0.5	<2	126	17.5	58.7	330	0.558	<10	186	1.8	<2	<1	27.5	78.1
	12/8/97	5.0	<6	<0.5	<20	<0.5	<2	1280	76.4	13.6	<0.4	<0.05	<10	1520	1.6	<2	<2	30.8	18.2
T-1-1	3/28/02	4.0	<2	4.7	210	<0.5	5.6	300	29	60	270	<0.05	1.7	420	<2	<1	<1	22	78
T-2-1[5]	3/28/02	2.0	<2	1.1	2.8	<0.5	<0.5	3.1	<1	6.6	1.9	<0.05	<1	11	<2	<1	<1	19	6.1
T-2-2	3/28/02	3.0	<2	12	120	<0.5	2	110	11	27	23	<0.05	<1	170	<2	<1	<1	18	35

Notes:
1. CAM 17 metals analyzed using U.S. Environmental Protection Agency (EPA) Methods 6000/7000 series.
2. Analytical laboratory results for samples collected in 1991 were reported by Ecology and Environment, Inc.; results for samples collected in 1997 were reported by Fluor Daniel
3. Less than symbol (<) indicates constituent was not detected at a concentration equal to or greater than the reporting limit
4. Results for primary samples are reported. Duplicate samples were also analyzed; results do not differ significantly from those of primary samples and are not reported in the table.
5. Sample consists of tar-like material.

amec

TABLE A-9

HISTORICAL SAMPLING DATA - VOLATILE ORGANIC COMPOUNDS DETECTED IN SOIL[1]

Potrero Power Plant Site
Switchyard and General Construction Yard
1201 Illinois Street
San Francisco, California

Concentrations in milligrams per kilogram (mg/kg)

Boring Name	Sample Date[2]	Sample Depth (feet)	Benzene	Ethylbenzene	Toluene	Xylenes[3]	o-Xylene	Total Xylenes	TMB124	IPBZ	MTLNCL	TMB135	BTBZN	PBZN	CYMP	BTBZS	STY	BTBZT
B-POT-1	2/28/91	2.0	ND[4]	ND	ND	ND	NA[5]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2/28/91	8.5	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B-POT-8	2/27/91	3.5	<0.00033[6]	<0.00033	<0.00033	NA	NA	<0.0011	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2/27/91	6.0	<0.00033	<0.00033	<0.00033	NA	NA	<0.0011	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB4-001	12/3/97	0.5	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB4-002	12/8/97	0.5	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	12/8/97	5.0	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
T-1-1	3/28/02	4.0	0.0089	0.037	0.053	NA	NA	0.19	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
T-2-1[7]	3/28/02	2.0	12	25	25	NA	NA	37	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
T-2-2	3/28/02	3.0	<0.005	0.02	<0.005	NA	NA	0.038	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
1. Volatile organic compounds analyzed using either U.S. Environmental Protection Agency (EPA) Method 8020 or 8260.
2. Analytical laboratory results for samples collected in 1991 were reported by Ecology and Environment, Inc.; results for samples collected in 1997/1998 were reported by Fluor Daniel GTI, Inc.
3. M-xylene and p-xylene results.
4. ND = not detected; laboratory reporting limit unknown.
5. NA = not analyzed.
6. Less than symbol (<) indicates constituent was not detected at a concentration equal to or greater than the reporting limit shown.
7. Sample consists of tar-like material.

Abbreviations:
TMB124 = 1,2,4-Trimethylbenzene
IPBZ = Cumene
MTLNCL = Dichloromethane (methylene chloride)
TMB135 = Mesitylene
BTBZN = n-Butylbenzene
PBZN = n-Propyl benzene
CYMP = p-Cymene (p-Isopropyltoluene)
BTBZS = sec-Butylbenzene
STY = Styrene
BTBZT = tert-Butylbenzene

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TABLE A-10

HISTORICAL SAMPLING DATA - POLYNUCLEAR AROMATIC HYDROCARBONS IN SOIL[1]

Potrero Power Plant Site
Switchyard and General Construction Yard
1201 Illinois Street
San Francisco, California

Concentrations in milligrams per kilogram (mg/kg)

Boring Name	Sample Date[2]	Sample Depth (feet)	Acenaph-thene	Acenaph-thylene	Anthra-cene	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoran-thene	Benzo (g,h,i) perlyene	Benzo(k) fluoran-thene	Chrysene	Dibenzo(a,h) anthracene	Fluoran-thene	Fluorene	Indeno (1,2,3-CID) pyrene	Naphtha-lene	Phenan-threne	Pyrene
B-POT-1	2/28/91	2.0	2.6	<0.53[3]	0.16	0.32	2.8	0.82	6.5	1	<0.053	6.9	1.7	<0.053	1.3	<0.53	0.28	5.2
	2/28/91	8.5	<0.56	<0.56	<0.056	<0.056	<0.056	<0.056	<0.14	<0.056	<0.056	<0.14	<0.14	<0.056	<0.056	<0.56	<0.056	<0.14
B-POT-8	2/27/91	3.5	<0.56	<0.56	<0.056	<0.056	<0.056	<0.056	<0.14	<0.056	<0.056	<0.14	<0.14	<0.056	<0.056	<0.56	<0.056	<0.14
	2/27/91	6.0	<0.55	<0.55	<0.055	<0.055	<0.055	<0.055	<0.14	<0.055	<0.055	<0.14	<0.14	<0.055	<0.055	<0.55	<0.055	<0.14
TB4-001	12/3/97	0.5	<0.1	<2	<0.1	2.23	<0.5	4.09	<1	1.95	2.4	0.049	2.62	<1	3.56	2.41	2.09	4.84
TB4-002[4]	12/8/97	0.5	<2	<40	<2	<2	<1	<2	<2	<2	<2	<1	<2	<2	<1.2	<2	<2	<2
	12/8/97	5.0	<0.1	<2	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.06	<0.1	<0.1	<0.1
T-1-1	3/28/02	4.0	2.1	<1.3	<1.3	1.8	1.6	<1.3	<1.3	<1.3	2.1	<1.3	3.9	<1.3	<1.3	8.8	3.3	3.3
T-2-1[5]	3/28/02	2.0	3700	220	4300	3100	2900	2200	1100	1900	2900	320	7000	3600	1100	5500	11000	5600
T-2-2	3/28/02	3.0	7.0	7.2	17	21	21	15	11	12	19	4.2	46	7.4	9.2	14	58	37

Notes:
1. Polynuclear aromatic hydrocarbons (PNAs) analyzed by either U.S. Environmental Protection Agency (EPA) Method 8270, 8310, or 8260.
2. Analytical laboratory results for samples collected in 1991 were reported by Ecology and Environment, Inc.; results for samples collected in 1997/1998 were reported by Fluor Daniel GTI, Inc.
3. Less than symbol (<) indicates constituent was not detected at a concentration equal to or greater than the reporting limit shown.
4. Both primary and duplicate samples were analyzed. Highest detection or lowest detection limit reported.
5. Sample consists of tar-like material.

TABLE A-11

HISTORICAL SAMPLING DATA - TOTAL PETROLEUM HYDROCARBONS IN SOIL[1]

Potrero Power Plant Site
Switchyard and General Construction Yard
1201 Illinois Street
San Francisco, California

Concentrations in milligrams per kilogram (mg/kg)

Boring Name	Sample Date[2]	Sample Depth (feet)	TEPH[3]	TPHd[4]	TPHg[5]	TPHmo[6]
B-POT-1	2/28/91	2.0	NA[7]	390	16	NA
	2/28/91	8.5	NA	<10[8]	11	NA
B-POT-8	2/27/91	3.5	NA	<10	<10	NA
	2/27/91	6.0	NA	<10	82	NA
TB4-001	12/3/97	0.5	<10	NA	NA	NA
TB4-002	12/8/97	0.5	1880	NA	NA	NA
	12/8/97	5.0	58.2	NA	NA	NA
T-1-1	3/28/02	4.0	NA	1300	1.2	4600
T-2-1[9]	3/28/02	2.0	NA	100,000	460	180,000
T-2-2	3/28/02	3.0	NA	75	3.6	140

Notes:

1. Total petroleum hydrocarbons (TPH) analyzed using U.S. Environmental Protection Agency (EPA) Method 8015.
2. Analytical laboratory results for samples collected in 1991 were reported by Ecology and Environment, Inc.; results for samples collected in 1997/1998 were reported by Fluor Daniel GTI, Inc.
3. TEPH = total extractable petroleum hydrocarbons quantified in the C9 to C40 range by EPA Method 8015.
4. TPHd = TPH quantified as diesel by EPA Method 8015.
5. TPHg = TPH quantified as gasoline by EPA Method 8015.
6. TPHmo = TPH quantified as motor oil by EPA Method 8015.
7. NA = not analyzed.
8. Less than symbol (<) indicates constituent was not detected at a concentration equal to or greater than the reporting limit shown.
9. Sample consists of tar-like material.

TABLE A-12

HISTORICAL SAMPLING DATA - CYANIDE IN SOIL[1]

Potrero Power Plant Site
Switchyard and General Construction Yard
1201 Illinois Street
San Francisco, California

Concentrations in milligrams per kilogram (mg/kg)

Boring Name	Sample Date[2]	Sample Depth (feet)	Total Cyanide
B-POT-1	2/28/91	2.0	<1[3]
	2/28/91	8.5	<1.1
B-POT-8	2/27/91	3.5	<1.1
	2/27/91	6.0	<1.1
TB4-001	12/3/97	0.5	<0.5
TB4-002	12/8/97	0.5	<0.5
	12/8/97	5.0	<0.5

Notes:

1. Total cyanide analyzed using U.S. Environmental Protection Agency (EPA) Method SW9010.
2. Analytical laboratory results for samples collected in 1991 were reported by Ecology and Environment, Inc.; results for samples collected in 1997 were reported by Fluor Daniel GTI, Inc.
3. Less than symbol (<) indicates constituent was not detected at a concentration equal to or greater than the reporting limit shown.

TABLE A-13

HISTORICAL SAMPLING DATA - TOTAL PETROLEUM HYDROCARBONS

Potrero Power Plant Site
Switchyard and General Construction Yard
Potrero Switchyard and General Construction Yard
1201 Illinois Street
San Francisco, California

Concentrations in micrograms per liter (µg/l)

Well Name	Sample Date[2]	TPH[3]	Benzene	Toluene	Ethyl-benzene	Total Xylenes
POT-9	1/4/00	<50[4]	NS[5]	NS	NS	NS
	6/9/1998	NS	<5	<5	<5	<5
	10/14/97	1,230	NS	NS	NS	NS
	3/12/91	<250	<0.3	<0.3	<0.3	<1
TB4-007	1/5/00	72.6	NS	NS	NS	NS
	12/10/97	<500	14.9	<5	<5	<5
TB4-020	1/5/00	<50	NS	NS	NS	NS
	3/11/98	130	<5	<5	<5	<5
TB6-001	1/10/00	NA	NS	NS	NS	NS
TB6-002	1/10/00	<50 (<50)	NS	NS	NS	NS

Notes:

1. BTEX = benzene, toluene, ethylbenzene, and total xylenes.
2. Analytical laboratory results for samples collected in 1991 by Ecology and Environment, Inc.; samples collected in 1997/1998 were reported by Fluor Daniel GTI, Inc.; results for samples collected in 2000 were reported by Geomatrix Consultants, Inc.
3. TPH = total petroleum hydrocarbons quantified in the C9 to C40 range (1997/1998) without a specific standard or the C10 to C36 range (2000) using a diesel (TPHd), motor oil (TPHmo), or crude (TPHc) standard using U.S. Environmental Protection Agency (EPA) Method 8015M with silica gel cleanup.
4. Less than symbol (<) indicates constituent was not detected at a concentration equal to
5. NS = not sampled.
6. TEPH quantified as diesel.
7. TEPH quantified as crude oil.
8. Values in parenthesis ( ) represent duplicate results.
9. NA = sample not analyzed due to the presence of a light non-aqueous
10. TEPH quantified as motor oil.

TABLE A-14

HISTORICAL SAMPLING DATA - POLYNUCLEAR AROMATIC HYDROCARBONS IN GROUNDWATER[1]

Potrero Power Plant Site
Switchyard and General Construction Yard
1201 Illinois Street
San Francisco, California

Concentrations in micrograms per liter (µg/l)

Well Name	Sample Date[1]	Acenaph-thene	Acenaph-thylene	Anthra-cene	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo (g,h,i) perlyene	Benzo(k) fluoranthene	Chrysene	Dibenzo (a,h) anthracene	Fluoran-thene	Fluorene	Indeno (1,2,3-CD) pyrene	Naphtha-lene	Phenan-threne	Pyrene
TB4-007	1/5/00	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.3	0.2	<0.1	3.2	0.5	0.3
	12/10/97	<100	<500	<100	<25	<10	<25	<100	<25	<100	<25	52	<100	<25	<5	<100	<100
TB4-020	1/5/00	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2
	3/11/98	<2	<10	<2	<0.5	<0.2	<0.5	<2	<0.5	<2	<0.5	<2	<2	<0.5	<5	<2	<2

Notes:

1. Analytical laboratory results for samples collected in 1991 were reported by Ecology and Environment, Inc., and were analyzed using U.S. Environmental Protection Agency (EPA) Method 8310; samples collected in 1997/1998 were reported by Fluor Daniel GTI, Inc., and were analyzed using EPA Methods 8310, 8260, or 8270; results for samples collected in 2000 were reported by Geomatrix Consultants, Inc., and were analyzed using EPA Method 8270.
2. Less than symbol (<) indicates constituent was not detected at a concentration equal to or greater than the reporting limit shown.
3. Multiple results represent naphthalene concentrations by EPA Method 8270/EPA Method 8260.
4. Results in parenthesis ( ) represent duplicate results.
5. NA = not analyzed due to presence of a hydrocarbon sheen.

TABLE A-15

HISTORICAL SAMPLING DATA - CYANIDE IN GROUNDWATER[1]

Potrero Power Plant Site
Switchyard and General Construction Yard
1201 Illinois Street
San Francisco, California

Concentrations in milligrams per liter (mg/l)

Well Name	Sample Date	Dissolved Cyanide	Weak Acid Dissociable Cyanide
TB4-007	1/5/00	0.36	1.6[4]
	12/10/97	4.8	NA
TB4-020	1/5/00	<0.01	NA
	3/11/1998	NA	<0.01

Notes:

1. Analytical laboratory results for samples collected collected in 1997/1998 were reported by Fluor Daniel GTI, Inc., and were analyzed using U.S. Environmental Protection Agency (EPA) Methods 9010 (dissolved) or SM412 (dissociable); samples collected in 2000 were reported by Geomatrix Consultants, Inc., and were analyzed using EPA Method 335.2 (dissolved) or SM4500CNI (dissociable).
2. Less than symbol (<) indicates constituent was not detected at a concentration equal to or greater than the reporting limit shown.
3. NA = not analyzed.
4. Sample was not filtered prior to the analysis of weak acid dissociable cyanide; therefore, results are likely overestimates.
5. Values in parenthesis ( ) represent duplicate results.

APPENDIX B

Soil Sampling Data Collected Subsequent to the HHRA Report

TABLE B-1

SUMMARY OF ANALYTICAL TESTING[1]

Potrero Power Plant Site
Switchyard and General Construction Yard
1201 Illinois Street
San Francisco, California

Boring Name	Soil Sample Depth (feet bgs)[2]	TEPH[3] (EPA Method 8015M)	BTEX[4] (EPA Method 8260B)	PNAs[5] (EPA Method 8270C SIM)	CAM 17 metals (EPA Method 6010B/7471A)	Asbestos (EPA Method 600/R-93-116)	Pesticides (EPA Method 8081)
B-2[6]	2.0 - 2.5	X	X	X	X	X	
	5.0 - 5.5	X	X	X	X	X	
B-3	1.5 - 2.0	X	X		X	X	X
	4.5 - 5.0	X	X		X	X	
B-4[7]	4.5 - 5.0	X	X	X	X	X	X
	10.0 - 10.5	X	X	X	X	X	X

Notes:

1. Laboratory analytical methods and analytical data are presented in Tables 2 through 6.
2. bgs = below ground surface
3. TEPH = total extractable petroleum hydrocarbons quantified as diesel and notor oil.
4. BTEX = benzene, toluene, ethylbenzene, and total xylenes
5. PNAs = polynuclear aromatic hydrocarbons
6. Samples also collected at 4.0 feet bgs and 10.0 feet bgs at this location; these samples were not analyzed.
7. Samples also collected at 5.5 feet bgs and 14.0 feet bgs at this location; these samples were not analyzed.

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TABLE B-2

SUMMARY OF DATA IN SOIL—TEPH, BTEX, Naphthalene[1,2]

Potrero Power Plant Site
Switchyard and General Construction Yard
1201 Illinois Street
San Francisco, California

Concentrations in milligrams per kilogram (mg/kg)

Sample Name	Sample Date	Sample Depth (feet bgs[3])	Sample Media	TEPH as Diesel	TEPH as Motor Oil	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Naphtha-lene
B-2-2.5	1/22/04	2.5	weathered bedrock	<10[4]	<10	<0.005	<0.005	<0.005	<0.005	<0.005
B-2-5.5	1/22/04	5.5	weathered bedrock	<10	<10	<0.005	<0.005	<0.005	<0.005	<0.005
B-3-2.0	1/22/04	2.0	weathered bedrock	**20**	<10	<0.005	<0.005	<0.005	<0.005	NA
B-3-5.0	1/22/04	5.0	weathered bedrock	<10	<10	<0.005	<0.005	<0.005	<0.005	NA
B-4-5.0	1/22/04	5.0	fill	**270**	<50	**0.006**	**0.022**	**0.03**	**0.11**	**4.7J[5]**
B-4-10.5	1/22/04	10.5	weathered bedrock	**120**	<50	<0.005	<0.005	<0.005	<0.005	**0.64**
Screening Criteria (ESLs)[6]				500	1000	0.38	9.3	13	1.5	4.8
20 x TC[7]				--	--	10	--	--	--	-

Notes:

1. TEPH = total extractable petroleum hydrocarbons quantified in the C10 to C36 range by U.S. Environmental Protection Agency (EPA) Method 8015M with silica gel cleanup. Benzene, toluene, ethylbenzene, and total xylenes (collectively BTEX) quantified by EPA Method 8260B. Naphthalene quantified by EPA Method 8270C with Selected Ion Monitoring (SIM).
2. Samples collected in 2004 by Geomatrix Consultants, Inc. and labeled to indicate sampling location and depth. For example, B-2-2.5 was collected from boring B-2 at a depth of 2.5 feet below ground surface.
3. bgs = below ground surface.
4. Less than symbol (<) indicates constituent was not detected at a concentration equal to or greater than the reporting limit shown.
5. J = the result is an estimated quantity; the associated numerical value is the approximate concentration of the analyte in the sample.
6. Environmental Screening Levels (ESLs) from Screening for Environmental Concerns at Sites With Contaminated Soil and Groundwater. California Regional Water Quality Control Board, Interim Final, July, 2003, Table B2. Commercial/Industrial Land Use - Final RBSL, Shallow Soil Screening Levels (less than 3 meters bgs), potentially impacted groundwater is not a current or potential drinking water resource.
7. Twenty times Federal toxicity criteria (TC) in milligrams per liter (California Title 22, section 66261, Appendix II).

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TABLE B-3

SUMMARY OF DATA IN SOIL—PNAs[1,2]
Potrero Power Plant Site
Switchyard and General Construction Yard
1201 Illinois Street
San Francisco, California

Concentrations in milligrams per kilogram (mg/kg)

Sample Name	Sample Date	Sample Depth (feet bgs[3])	Acenaph-thene	Acenaph-thylene	Anthra-cene	Benzo(a)-anthracene	Benzo(b) fluoran-thene	Benzo(k) fluoran-thene	Benzo (g,h,i) perylene	Benzo(a) pyrene	Chrysene	Dibenzo (a,h) anthracene	Fluor-anthene	Fluorene	Indeno (1,2,3-c,d) pyrene	Naph-thalene	Phenan-threne	Pyrene
B-2-2.5	1/22/04	2.5	<0.005[4]	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
B-2-5.5	1/22/04	5.5	<0.005	<0.005	**0.012**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	**0.038**	<0.005
B-3-2.0	1/22/04	2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B-3-5.0	1/22/04	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B-4-5.0	1/22/04	5.0	**8.5J[5]**	<1.3UJ	**13J**	**14J**	**6.6J**	**7.2J**	**11J**	**4.5J**	**12J**	<1.3UJ	**23J**	**7.8J**	**4.4J**	**4.7J**	**42J**	**27J**
B-4-10.5	1/22/04	10.5	**2.1**	**0.23**	**1.2**	**0.96**	**0.99**	**0.71**	**0.84**	**0.71**	**0.89**	**0.32**	**2.10**	**1.5**	**0.66**	**0.64**	**4.5**	**2.6**
Screening Criteria (ESLs)[6]			19	13	2.8	1.3	1.3	1.3	27	0.13	13	0.38	40	8.9	1.3	4.8	11	85

Notes:
1. Polynuclear aromatic hydrocarbons (PNAs) quantified by U.S. Environmental Protection Agency (EPA) Method 8270C with Selected Ion Monitoring (SIM).
2. Samples collected in 2004 by Geomatrix Consultants, Inc. and labeled to indicate sampling location and depth. For example, B-2-2.5 was collected from boring B-2 at a depth of 2.5 feet below ground surface.
3. bgs = below ground surface.
4. Less than symbol (<) indicates constituent was not detected at a concentration equal to or greater than the reporting limit shown.
5. "J" = the result is an estimated quantity; the associated numerical value is the approximate concentration of the analyte in the sample.
6. Environmental Screening Levels (ESLs) from Screening for Environmental Concerns at Sites With Contaminated Soil and Groundwater. California Regional Water Quality Control Board, Interim Final, July, 2003, Table B2. Commercial/Industrial Land Use - Final RBSL, Shallow Soil Screening Levels (less than 3 meters bgs), potentially impacted groundwater is not a current or potential drinking water resource.

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TABLE B-4

SUMMARY OF DATA IN SOIL—METALS[1,2]

Potrero Power Plant Site
Switchyard and General Construction Yard
1201 Illinois Street
San Francisco, California

Concentrations in milligrams per kilogram (mg/kg)

Sample Name	Sample Date	Sample Depth (feet bgs[3])	Sample Media	Antimony	Arsenic	Barium	Beryl-lium	Cadmium	Total Chrom-ium	Cobalt	Copper	Lead	Mercury	Molyb-denum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
B-2-2.5	1/22/04	2.5	weathered bedrock	<5.0[4]	<1.0	**0.8**	<0.5	<1.0	**510**	**56**	**4.5**	<1.0	<0.1	<1.0	**2000**	<1.0	<5.0	<1.0	**22**	**15**
B-2-5.5	1/22/04	5.5	weathered bedrock	<5.0	<1.0	**1**	<0.5	<1.0	**1700**	**55**	**18**	<1.0	<0.1	<1.0	**1900**	<1.0	<5.0	<1.0	**69**	**21**
B-3-2.0	1/22/04	2.0	weathered bedrock	<5.0	<1.0	**1.1**	<0.5	<1.0	**1700**	**56**	**11**	<1.0	<0.1	<1.0	**2000**	<1.0	<5.0	<1.0	**74**	**23**
B-3-5.0	1/22/04	5.0	weathered bedrock	<5.0	<1.0	**1.3**	<0.5	<1.0	**1400**	**45**	**7.6**	<1.0	<0.1	<1.0	**1600**	<1.0	<5.0	<1.0	**56**	**17**
B-4-5.0	1/22/04	5.0	fill	<5.0	<1.0	**110**	<0.5	<1.0	**960**	**38**	**24**	**22**	<0.1	<1.0	**1200**	<1.0	<5.0	<1.0	**59**	**33**
B-4-10.5	1/22/04	10.5	weathered bedrock	<5.0	<1.0	**4.4**	<0.5	<1.0	**800**	**48**	**13**	**1.6**	<0.1	<1.0	**1800**	<1.0	<5.0	<1.0	**41**	**22**
Maximum value				<5.0	<1.0	110	<0.5	<1.0	1700	56	24	22	<0.1	<1.0	2000	<1.0	<5.0	<1.0	74	33
Representative Background (LBNL)[5]				5.9	14.0	358.8	0.9	1.5	91.4	22.0	59.6	14.7	0.3	3.2	120.2	5.6	1.7	42.5	78.2	91.5
Screening Criteria (ESLs)[6]				40	5.5	1500	8	7.4	58	80	230	750	10	40	150	10	40	13	200	600
TTLC				500	500	10000	75	100	2500	8000	2500	1000	20	3500	2000	100	500	700	2400	5000
10 x STLC				150	50	1000	7.5	10	50	800	250	50	2	3500	200	10	50	70	240	2500

Notes:

1. CAM 17 metals analyzed using U.S. Environmental Protection Agency (EPA) Methods 7471A/6010B.
2. Samples collected in 2004 by Geomatrix Consultants, Inc. and labeled to indicate sampling location and depth. For example, B-2-2.5 was collected from boring B-2 at a depth of 2.5 feet below ground surface.
3. bgs = below ground surface.
4. Less than symbol (<) indicates constituent was not detected at a concentration equal to or greater than the reporting limit shown.
5. Regional background concentrations obtained from Lawrence Berkeley National Laboratory, 1995.
6. Environmental Screening Levels (ESLs) from Screening for Environmental Concerns at Sites With Contaminated Soil and Groundwater. California Regional Water Quality Control Board, Interim Final, July, 2003, Table B2. Commercial/Industrial Land Use - Final RBSL, Shallow Soil Screening Levels (less than 3 meters bgs), potentially impacted groundwater is not a current or potential drinking water resource.
7. Total Threshold Limit Concentration (TTLC) in milligrams per kilogram (California Title 22, Section 66261.24).
8. Ten times Soluble Threshold Limit Concentration (STLC) in milligrams per liter (California Title 22, Section 66261.24).

TABLE B-5

SUMMARY OF DATA IN SOIL—PESTICIDES[1,2]

Potrero Power Plant Site
Switchyard and General Construction Yard
1201 Illinois Street
San Francisco, California

Concentrations in milligrams per kilogram (mg/kg)

Sample Name	Sample Date	Sample Depth (feet bgs[3])	Aldrin	Dieldrin	Endrin aldehyde	Endrin	Endrin ketone	Hepta chlor	Heptachlor epoxide	4,4'-DDT	4,4'-DDE	4,4'-DDD	Endo sulfan I	Endo sulfan II	alpha-BHC	beta-BHC	gamma-BHC (Lindane)	delta-BHC	Endo sulfan sulfate	4,4'-Methoxy chlor	Chlordane (Technical)	alpha-Chlordane	gamma-Chlordane	Toxaphene
B-2-2.5	1/22/04	2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B-2-5.5	1/22/04	5.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B-3-2.0	1/22/04	2.0	<0.008[5]	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.4	<0.008	<0.008	<0.4
B-3-5.0	1/22/04	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B-4-5.0	1/22/04	5.0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.1	<0.002	<0.002	<0.1
B-4-10.5	1/22/04	10.5	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Screening Criteria (ESLs)[6]			0.1	0.0023	0.00064	0.0006	0.00064	0.014	0.015	4	4	10	0.0046	0.0046	--	--	0.049	--	0.0046	19	1.7	1.7	1.7	0.00042

Notes:
1. Pesticides analyzed using U.S. Environmental Protection Agency (EPA) Method 8081.
2. Samples collected in 2004 by Geomatrix Consultants, Inc. and labeled to indicate sampling location and depth. For example, B-2-2.5 was collected from boring B-2 at a depth of 2.5 feet below ground surface.
3. bgs = below ground surface.
4. NA = not analyzed.
5. Less than symbol (<) indicates constituent was not detected at a concentration equal to or greater than the reporting limit shown.
6. Environmental Screening Levels (ESLs) from Screening for Environmental Concerns at Sites With Contaminated Soil and Groundwater. California Regional Water Quality Control Board, Interim Final, July, 2003, Table B2. Commercial/Industrial Land Use - Final RBSL, Shallow Soil Screening Levels (less than 3 meters bgs), potentially impacted groundwater is not a current or potential drinking water resource.

TABLE B-6

SUMMARY OF DATA IN SOIL—ASBESTOS[1,2]

Potrero Power Plant Site
Switchyard and General Construction Yard
1201 Illinois Street
San Francisco, California

Concentrations in percent

Sample Name	Sample Date	Sample Depth (feet bgs[3])	Asbestos Level
B-2-2.5	1/22/04	2.5	<1%
B-2-5.5	1/22/04	5.5	<1%
B-3-2.0	1/22/04	2.0	<1%
B-3-5.0	1/22/04	5.0	<1%
B-4-5.0	1/22/04	5.0	<1%
B-4-10.5	1/22/04	10.5	<1%

Notes:

1. Asbestos analyzed by U.S. Environmental Protection Agency (EPA) Method 600/R-93-116, Visual Area Estimation. The sample integrity is maintained using this method.
2. Samples collected in 2004 by Geomatrix Consultants, Inc. and labeled to indicate sampling location and depth. For example, B-2-2.5 was collected from boring B-2 at a depth of 2.5 feet below ground surface.
3. bgs = below ground surface.

TABLE B-8

SUMMARY OF TCLP RESULTS—TOTAL CHROMIUM[1,2]

Potrero Power Plant Site
Switchyard and General Construction Yard
1201 Illinois Street
San Francisco, California

Concentrations in milligrams per liter (mg/L)

Sample Name	Sample Date	Sample Depth (feet bgs[3])	Sample Media	Total Chromium
B-2-2.5	1/22/04	2.5	weathered bedrock	<0.1
B-2-5.5	1/22/04	5.5	weathered bedrock	<0.1
B-3-2.0	1/22/04	2.0	weathered bedrock	<0.1
B-3-5.0	1/22/04	5.0	weathered bedrock	<0.1
B-4-5.0	1/22/04	5.0	fill	<0.1
B-4-10.5	1/22/04	10.5	weathered bedrock	<0.1

Notes:

1. Total chromium analyzed using the Toxicity Characteristic Leaching Procedure (TCLP) method.
2. Samples collected in 2004 by Geomatrix Consultants, Inc. and labeled to indicate sampling location and depth. For example, B-2-2.5 was collected from boring B-2 at a depth of 2.5 feet below ground surface.
3. bgs = below ground surface.

TABLE B-9

RESULTS OF SOIL SAMPLING BTEX, TPHg, AND TITLE 22 METALS
Potrero Power Plant Site
Switchyard and General Construction Yard
1201 Illinois Street
San Francisco, California

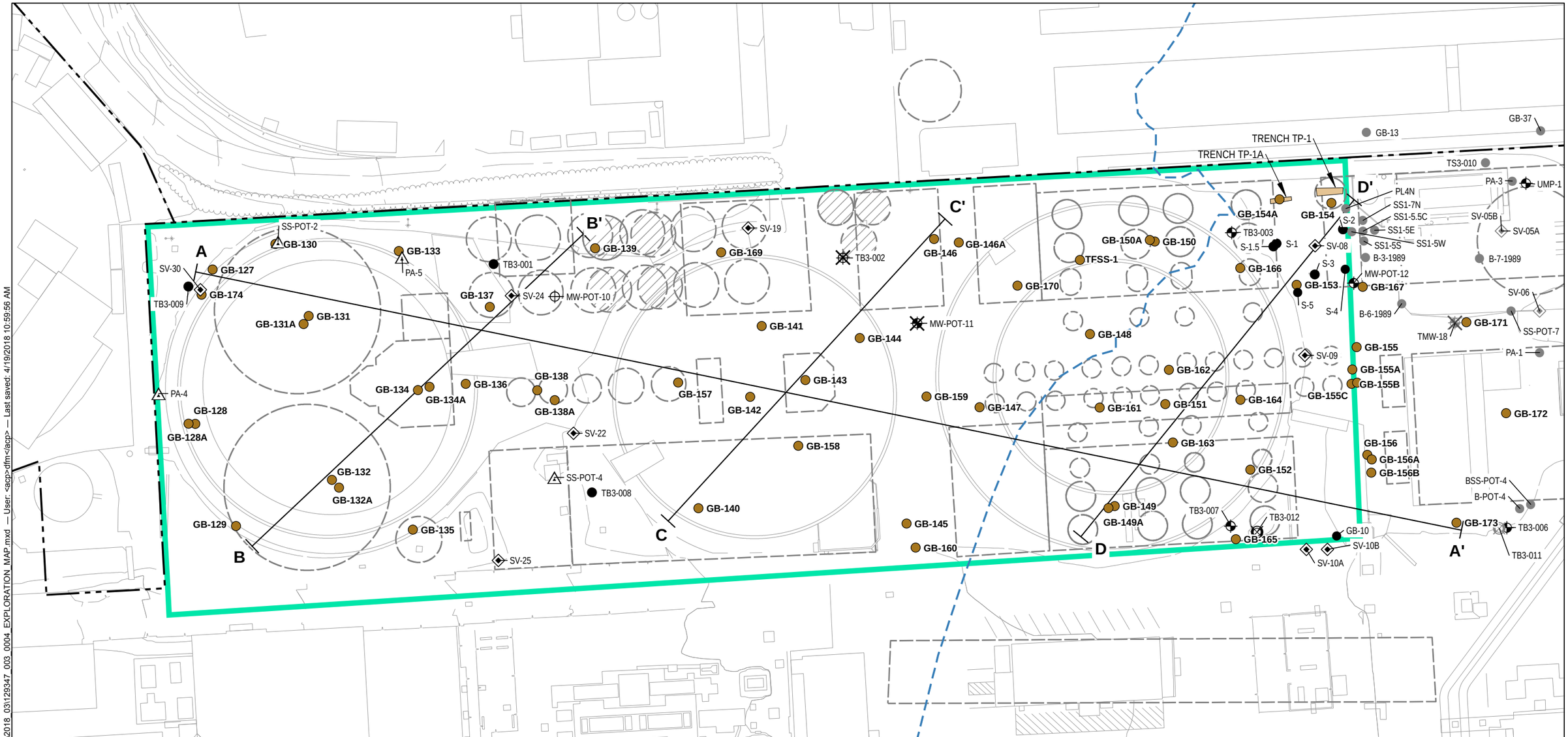
Concentrations in milligrams per kilograms [mg/kg] (ppm) unless otherwise noted.

Sample ID	Sample Date	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Molybdenum	Mercury	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
CWPB-6.5	8/2/2004	ND (<0.5)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<5.0)	ND (<1.0)	**18.**	ND (<0.5)	ND (<1.0)	**790.**	**79.**	**14.**	**1.5**	ND (<1.0)	ND (<0.1)	**1700.**	ND (<5.0)	ND (<1.0)	ND (<5.0)	**23.**	**36.**
CWPB-7.0	8/2/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CWPB-9.5	8/2/2004	ND (<0.5)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CWPB-10.5	8/2/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CWPB-14.5	8/2/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CWPB-15.5	8/2/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CWPB-19.5	8/2/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CWPB-20.5	8/2/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CWPB-25.5	8/2/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CWPB-26.0	8/2/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CWPB-30.5	8/2/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CWPB-31.0	8/2/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CWPB-35.0	8/2/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CWPB-35.5	8/2/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CWPB-40.0	8/2/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C1	8/2/2004	NA	NA	NA	NA	NA	ND (<5.0)	ND (<1.0)	**0.7**	ND (<0.5)	ND (<1.0)	**670.**	**79.**	**7.3**	ND (<1.0)	ND (<1.0)	ND (<0.1)	**1700.**	ND (<5.0)	ND (<1.0)	ND (<5.0)	**8.2**	**27.**
C2	8/2/2004	NA	NA	NA	NA	NA	ND (<5.0)	ND (<1.0)	**0.8**	ND (<0.5)	ND (<1.0)	**920.**	**110.**	**16.**	ND (<1.0)	ND (<1.0)	ND (<0.1)	**2200.**	ND (<5.0)	ND (<1.0)	ND (<5.0)	**14.**	**38.**

Abbreviations:
ppm = parts per million.
< = indicates compound was detected below laboratory reporting limit.
NA=Not analyzed.
NS = Not sampled.

TANK FARM AREA

(Figure from "Tank Farm Area Investigation Report, Potrero Power Plant Site, San Francisco, California" dated July 2018, prepared by Haley & Aldrich, Inc. Tables from draft "Human Health Risk Assessment, Tank Farm Area, Potrero Power Plant Site, San Francisco, California" dated May 2019, prepared by Haley & Aldrich, Inc.)



LEGEND

- MONITORING WELL IN FILL
- BEDROCK MONITORING WELL
- DECOMMISSIONED BAY MUD MONITORING WELL
- DECOMMISSIONED MONITORING WELL IN FILL
- DECOMMISSIONED BEDROCK MONITORING WELL
- PREVIOUS NEAR SURFACE SOIL SAMPLING LOCATION
- PREVIOUS SOIL BORING
- PREVIOUS SOIL VAPOR SAMPLING LOCATION
- SAMPLE LOCATION (THIS INVESTIGATION: IN 2017 AND 2018)
- APPROXIMATE 1851 SHORELINE
- PROPERTY BOUNDARY LINE
- CROSS SECTION LINE
- TEST TRENCH
- TANK FARM

NOTES:

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. BASE MAP SOURCE: RJL & ASSOCIATE, 2015
3. APPROXIMATE LIMITS OF HISTORICAL STRUCTURES DERIVED FROM SANBORN FIRE INSURANCE MAPS (1887, 1900, AND 1914) AND PACIFIC GAS AND ELECTRIC MAPS (1926).
4. DATA FROM GRAYED LOCATIONS ARE NOT INCLUDED IN THIS REPORT.

N

0 60 120
SCALE IN FEET

HALEY ALDRICH

PACIFIC GAS AND ELECTRIC COMPANY (PG&E)
TANK FARM AREA
POTRERO POWER PLANT
SAN FRANCISCO, CALIFORNIA

EXPLORATION LOCATIONS AND CROSS SECTIONS MAP

APRIL 2018

FIGURE 4

GIS file path: G:\42542 PG&E Potrero Unit 3\Global\GIS\MapProjects\2018_03\129347_003_0004_EXPLORATION_MAP.mxd — User: <acp>dfm</acp> — Last saved: 4/19/2018 10:59:56 AM

TABLE A-1
ANALYTICAL DATA: VOLATILE ORGANIC COMPOUNDS IN SOIL
TANK FARM AREA, POTRERO POWER PLANT
SAN FRANCISCO, CALIFORNIA

Location ID	Sample ID	Bottom Depth (feet bgs)	Sample Date	Sample Type	1,1,1,2-Tetrachloro-ethane	1,1,1-Trichloro-ethane	1,1,2,2-Tetrachloro-ethane	1,1,2-Trichloro-ethane	1,1,2-Trichloro-trifluoroethane (Freon 113)	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropane	1,1-Dichloropropene	1,2,3-Trichloro-benzene	1,2,3-Trichloro-propane	1,2,4-Trichloro-benzene	1,2,4-Trimethyl-benzene
GB-127	GB-127-2.0	2	11/13/2017	P	<0.00084	<0.00084	<0.0017	<0.00084	<0.0084	<0.00084	<0.00084	--	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017
GB-127	GB-127-6.0	6	12/7/2017	P	<0.0008	<0.0008	<0.0016	<0.0008	<0.008	<0.0008	<0.0008	--	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016
GB-128	GB-128-2.0	2	11/13/2017	P	<0.0007	<0.0007	<0.0014	<0.0007	<0.007	<0.0007	<0.0007	--	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014
GB-128	GB-128-5.0	5	12/6/2017	P	<0.00075	<0.00075	<0.0015	<0.00075	<0.0075	<0.00075	<0.00075	--	<0.0015	<0.0015	<0.0015	**0.016**	<0.0015
GB-128	GB-128-10.0	10	12/7/2017	P	<0.00087	<0.00087	<0.0017	<0.00087	<0.0087	<0.00087	<0.00087	--	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017
GB-129	GB-129-2.0	2	11/8/2017	P	<0.00084	<0.00084	<0.0017	<0.00084	<0.0084	<0.00084	<0.00084	--	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017
GB-129	GB-129-5.0	5	11/20/2017	P	<0.00094	<0.00094	<0.0019	<0.00094	<0.0094	<0.00094	<0.00094	--	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019
GB-129	GB-129-9.25	9.25	11/20/2017	P	<0.0013	<0.0013	<0.0025	<0.0013	<0.013	<0.0013	<0.0013	--	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
GB-129	GB-129-18.75	18.75	11/20/2017	P	<0.00067	<0.00067	<0.0013	<0.00067	<0.0067	<0.00067	<0.00067	--	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013
GB-129	GB-129-22.5	22.5	11/20/2017	P	<0.00074	<0.00074	<0.0015	<0.00074	<0.0074	<0.00074	<0.00074	--	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
GB-130	GB-130-2.0	2	11/14/2017	P	<0.0009	<0.0009	<0.0018	<0.0009	<0.009	<0.0009	<0.0009	--	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018
GB-130	GB-130-5.0	5	11/15/2017	P	<0.042	<0.042	<0.084	<0.042	<0.42	<0.042	<0.042	--	<0.084	<0.084	<0.084	<0.084	**0.11**
GB-130	GB-130-10.0	10	11/15/2017	P	<0.00078	<0.00078	<0.0016	<0.00078	<0.0078	<0.00078	<0.00078	--	<0.0016	<0.0016	<0.0016	**0.0019**	<0.0016
GB-130	GB-130-15.0	15	11/15/2017	P	<0.00078	<0.00078	<0.0016	<0.00078	<0.0078	<0.00078	<0.00078	--	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016
GB-130	GB-130-19.0	19	11/15/2017	P	<0.00082	<0.00082	<0.0016	<0.00082	<0.0082	<0.00082	<0.00082	--	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016
GB-130	GB-130-25.75	25.75	11/15/2017	P	<4	<4	<8	<4	<40	<4	<4	--	<8	<8	<8	<8	**51**
GB-131	GB-131-2.0	2	11/13/2017	P	<0.00088	<0.00088	<0.0018	<0.00088	<0.0088	<0.00088	<0.00088	--	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018
GB-131	GB-131-6.5	6.5	12/4/2017	P	<0.00076	<0.00076	<0.0015	<0.00076	<0.0076	<0.00076	<0.00076	--	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
GB-131	GB-131-9.0	9	12/4/2017	P	<0.0011	<0.0011	<0.0021	<0.0011	<0.011	<0.0011	<0.0011	--	<0.0021	<0.0021	<0.0021	**0.0068**	<0.0021
GB-131	GB-131-12.5	12.5	12/4/2017	P	<0.042	<0.042	<0.084	<0.042	<0.42	<0.042	<0.042	--	<0.084	<0.084	<0.084	<0.084	<0.084
GB-131	GB-131-16.5	16.5	12/4/2017	P	<0.056	<0.056	<0.11	<0.056	<0.56	<0.056	<0.056	--	<0.11	<0.11	<0.11	<0.11	**1.3**
GB-131	GB-131-28.0	28	12/4/2017	P	<0.001	<0.001	<0.002	<0.001	<0.01	<0.001	<0.001	--	<0.002	<0.002	<0.002	**0.0027**	<0.002
GB-131A	GB-131A-5.5	5.5	2/20/2018	P	<0.051	<0.051	<0.1	<0.051	<0.51	<0.051	<0.051	--	<0.1	**0.16**	<0.1	**0.34**	<0.1
GB-132	GB-132-2.0	2	11/13/2017	P	<0.00094	<0.00094	<0.0019	<0.00094	<0.0094	<0.00094	<0.00094	--	<0.0019	**0.007**	<0.0019	**0.017**	<0.0019
GB-132	GB-132-5.0	5	11/13/2017	P	<0.0009	<0.0009	<0.0018	<0.0009	<0.009	<0.0009	<0.0009	--	<0.0018	<0.0018	<0.0018	**0.0084**	<0.0018
GB-132	GB-132-10.0	10	11/13/2017	P	<0.00077	<0.00077	<0.0015	<0.00077	<0.0077	<0.00077	<0.00077	--	<0.0015	<0.0015	<0.0015	**0.0089**	<0.0015
GB-132	GB-132-15.0	15	11/13/2017	P	<0.00072	<0.00072	<0.0014	<0.00072	<0.0072	<0.00072	<0.00072	--	<0.0014	<0.0014	<0.0014	**0.0018**	<0.0014
GB-132	GB-132-20.0	20	11/13/2017	P	<0.0007	<0.0007	<0.0014	<0.0007	<0.007	<0.0007	<0.0007	--	<0.0014	<0.0014	<0.0014	**0.0054**	<0.0014
GB-132	GB-132-25.0	25	11/14/2017	P	<0.00071	<0.00071	<0.0014	<0.00071	<0.0071	<0.00071	<0.00071	--	<0.0014	<0.0014	<0.0014	**0.0023**	<0.0014
GB-132A	GB-132A-5.5	5.5	2/20/2018	P	<0.00089	<0.00089	<0.0018	<0.00089	<0.0089	<0.00089	<0.00089	--	<0.0018	<0.0018	<0.0018	**0.0019**	<0.0018
GB-133	GB-133-2.0	2	11/17/2017	P	<0.0007	<0.0007	<0.0014	<0.0007	<0.007	<0.0007	<0.0007	--	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014
GB-133	GB-133-5.0	5	11/17/2017	P	<0.00067	<0.00067	<0.0013	<0.00067	<0.0067	<0.00067	<0.00067	--	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013
GB-133	GB-133-10.0	10	11/20/2017	P	<0.00072	<0.00072	<0.0014	<0.00072	<0.0072	<0.00072	<0.00072	--	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014
GB-134	GB-134-2.0	2	11/15/2017	P	<0.05	<0.05	<0.1	<0.05	<0.5	<0.05	<0.05	--	<0.1	<0.1	<0.1	**0.25**	**0.27**
GB-134	GB-134-5.0	5	11/20/2017	P	<0.047	<0.047	<0.094	<0.047	<0.47	<0.047	<0.047	--	<0.094	**0.16**	<0.094	**0.43**	<0.094
GB-134	GB-134-10.0	10	11/21/2017	P	<0.00077	<0.00077	<0.0015	<0.00077	<0.0077	<0.00077	<0.00077	--	<0.0015	**0.0022**	<0.0015	**0.0099**	<0.0015
GB-134	GB-134-15.5	15.5	11/21/2017	P	<0.00071	<0.00071	<0.0014	<0.00071	<0.0071	<0.00071	<0.00071	--	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014
GB-134A	GB-134A-5.0	5	2/20/2018	P	<0.00096	<0.00096	<0.0019	<0.00096	<0.0096	<0.00096	<0.00096	--	<0.0019	<0.0019	<0.0019	**0.0047**	**0.003**
GB-135	GB-135-2.0	2	11/17/2017	P	<0.00099	<0.00099	<0.002	<0.00099	<0.0099	<0.00099	<0.00099	--	<0.002	<0.002	<0.002	<0.002	<0.002
GB-135	GB-135-5.5	5.5	11/17/2017	P	<0.00089	<0.00089	<0.0018	<0.00089	<0.0089	<0.00089	<0.00089	--	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018
GB-135	GB-135-10.5	10.5	11/20/2017	P	<0.00096	<0.00096	<0.0019	<0.00096	<0.0096	<0.00096	<0.00096	--	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019
GB-135	GB-135-14.5	14.5	11/20/2017	P	<0.00076	<0.00076	<0.0015	<0.00076	<0.0076	<0.00076	<0.00076	--	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
GB-135	GB-135-19.0	19	11/20/2017	P	<0.0007	<0.0007	<0.0014	<0.0007	<0.007	<0.0007	<0.0007	--	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014
GB-136	GB-136-2.0	2	11/13/2017	P	<0.00076	<0.00076	<0.0015	<0.00076	<0.0076	<0.00076	<0.00076	--	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
GB-136	GB-136-5.0	5	11/13/2017	P	<0.00085	<0.00085	<0.0017	<0.00085	<0.0085	<0.00085	<0.00085	--	<0.0017	<0.0017	--	**0.0051**	<0.0017
GB-136	GB-136-10.0	10	11/13/2017	P	<0.00082	<0.00082	<0.0016	<0.00082	<0.0082	<0.00082	<0.00082	--	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016
GB-137	GB-137-2.0	2	11/15/2017	P	<0.00082	<0.00082	<0.0016	<0.00082	<0.0082	<0.00082	<0.00082	--	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016
GB-137	GB-137-5.0	5	12/7/2017	P	<0.0008	<0.0008	<0.0016	<0.0008	<0.008	<0.0008	<0.0008	--	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016
GB-137	GB-137-9.0	9	12/7/2017	P	<0.00085	<0.00085	<0.0017	<0.00085	<0.0085	<0.00085	<0.00085	--	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017
GB-138	GB-138-2.0	2	11/9/2017	P	<0.00071	<0.00071	<0.0014	<0.00071	<0.0071	<0.00071	<0.00071	--	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014
GB-138A	GB-138A-5.0	5	1/2/2018	P	<0.00074	<0.00074	<0.0015	<0.00074	<0.0074	<0.00074	<0.00074	--	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
GB-139	GB-139-3.0	3	11/15/2017	P	<0.00082	<0.00082	<0.0016	<0.00082	<0.0082	<0.00082	<0.00082	--	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016
GB-139	GB-139-5.0	5	11/15/2017	P	<0.00086	<0.00086	<0.0017	<0.00086	<0.0086	<0.00086	<0.00086	--	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017
GB-139	GB-139-10.0	10	11/16/2017	P	<0.0007	<0.0007	<0.0014	<0.0007	<0.007	<0.0007	<0.0007	--	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014
GB-140	GB-140-2.0	2	11/9/2017	P	<0.00083	<0.00083	<0.0017	<0.00083	<0.0083	<0.00083	<0.00083	--	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017
GB-140	GB-140-4.75	4.75	11/9/2017	P	<0.00069	<0.00069	<0.0014	<0.00069	<0.0069	<0.00069	<0.00069	--	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014
GB-140	GB-140-10.0	10	12/6/2017	P	<0.00066	<0.00066	<0.0013	<0.00066	<0.0066	<0.00066	<0.00066	--	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013
GB-141	GB-141-2.0	2	11/17/2017	P	<0.00098	<0.00098	<0.002	<0.00098	<0.0098	<0.00098	<0.00098	--	<0.002	<0.002	<0.002	<0.002	<0.002
GB-141	GB-141-5.0	5	11/21/2017	P	<0.039	<0.039	<0.078	<0.039	<0.39	<0.039	<0.039	--	<0.078	<0.078	<0.078	<0.078	<0.078
GB-141	GB-141-7.5	7.5	12/7/2017	P	<2	<2	<3.9	<2	<20	<2	<2	--	<3.9	<3.9	<3.9	<3.9	<3.9
GB-142	GB-142-2.0	2	11/8/2017	P	<0.00086	<0.00086	<0.0017	<0.00086	<0.0086	<0.00086	<0.00086	--	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017
GB-142	GB-142-5.0	5	11/8/2017	P	<0.0009	<0.0009	<0.0018	<0.0009	<0.009	<0.0009	<0.0009	--	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018
GB-142	GB-142-10.0	10	11/8/2017	P	<0.46	<0.46	<0.92	<0.46	<4.6	<0.46	<0.46	--	<0.92	<0.92	<0.92	<0.92	**2.5**
GB-142	GB-142-15.0	15	11/8/2017	P	<0.37	<0.37	<0.73	<0.37	<3.7	<0.37	<0.37	--	<0.73	<0.73	<0.73	<0.73	**2.8**
GB-142	GB-142-20.0	20	11/8/2017	P	<0.4	<0.4	<0.81	<0.4	<4	<0.4	<0.4	--	<0.81	<0.81	<0.81	<0.81	**1.5**
GB-142	GB-142-23.0	23	11/8/2017	P	<0.07	<0.07	<0.14	<0.07	<0.7	<0.07	<0.07	--	<0.14	<0.14	<0.14	<0.14	<0.14
GB-143	GB-143-2.0	2	11/9/2017	P	<0.00079	<0.00079	<0.0016	<0.00079	<0.0079	<0.00079	<0.00079	--	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016
GB-143	GB-143-5.0	5	11/9/2017	P	<0.00082	<0.00082	<0.0016	<0.00082	<0.0082	<0.00082	<0.00082	--	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016
GB-143	GB-143-10.0	10	11/9/2017	P	<0.45	<0.45	<0.89	<0.45	<4.5	<0.45	<0.45	--	<0.89	<0.89	<0.89	<0.89	**1.4**
GB-143	GB-143-10.5	10.5	11/9/2017	P	<6.7	<6.7	<13	<6.7	<67	<6.7	<6.7	--	<13	<13	<13	<13	<13
GB-143	GB-143-13.0	13	11/9/2017	P	<0.00082	<0.00082	<0.0016	<0.00082	<0.0082	<0.00082	<0.00082	--	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016
GB-144	GB-144-2.0	2	11/10/2017	P	<0.00079	<0.00079	<0.0016	<0.00079	<0.0079	<0.00079	<0.00079	--	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016

TABLE A-1
ANALYTICAL DATA: VOLATILE ORGANIC COMPOUNDS IN SOIL
TANK FARM AREA, POTRERO POWER PLANT
SAN FRANCISCO, CALIFORNIA

Location ID	Sample ID	Bottom Depth (feet bgs)	Sample Date	1,2-Dibromo-3-Chloropropane (DBCP)	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethyl-benzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,3-Dichloropropene	1,4-Dichlorobenzene	1-Methylethyl-benzene A
GB-127	GB-127-2.0	2	11/13/2017	<0.0042	<0.00084	<0.00084	<0.00084	<0.00084	<0.0017	<0.00084	<0.00084	--	<0.00084	--
GB-127	GB-127-6.0	6	12/7/2017	<0.004	<0.0008	<0.0008	<0.0008	<0.0008	<0.0016	<0.0008	<0.0008	--	<0.0008	--
GB-128	GB-128-2.0	2	11/13/2017	<0.0035	<0.0007	<0.0007	<0.0007	<0.0007	<0.0014	<0.0007	<0.0007	--	<0.0007	--
GB-128	GB-128-5.0	5	12/6/2017	<0.0037	<0.00075	<0.00075	<0.00075	<0.00075	<0.0015	**0.0019**	<0.00075	--	**0.0021**	--
GB-128	GB-128-10.0	10	12/7/2017	<0.0043	<0.00087	<0.00087	<0.00087	<0.00087	<0.0017	<0.00087	<0.00087	--	<0.00087	--
GB-129	GB-129-2.0	2	11/8/2017	<0.0042	<0.00084	<0.00084	<0.00084	<0.00084	<0.0017	<0.00084	<0.00084	--	<0.00084	--
GB-129	GB-129-5.0	5	11/20/2017	<0.0047	<0.00094	<0.00094	<0.00094	<0.00094	<0.0019	<0.00094	<0.00094	--	<0.00094	--
GB-129	GB-129-9.25	9.25	11/20/2017	<0.0063	<0.0013	<0.0013	<0.0013	<0.0013	<0.0025	<0.0013	<0.0013	--	<0.0013	--
GB-129	GB-129-18.75	18.75	11/20/2017	<0.0033	<0.00067	<0.00067	<0.00067	<0.00067	<0.0013	<0.00067	<0.00067	--	<0.00067	--
GB-129	GB-129-22.5	22.5	11/20/2017	<0.0037	<0.00074	<0.00074	<0.00074	<0.00074	<0.0015	<0.00074	<0.00074	--	<0.00074	--
GB-130	GB-130-2.0	2	11/14/2017	<0.0045	<0.0009	<0.0009	<0.0009	<0.0009	<0.0018	<0.0009	<0.0009	--	<0.0009	--
GB-130	GB-130-5.0	5	11/15/2017	<0.21	<0.042	<0.042	<0.042	<0.042	<0.084	<0.042	<0.042	--	<0.042	--
GB-130	GB-130-10.0	10	11/15/2017	<0.0039	<0.00078	<0.00078	<0.00078	<0.00078	<0.0016	<0.00078	<0.00078	--	<0.00078	--
GB-130	GB-130-15.0	15	11/15/2017	<0.0039	<0.00078	<0.00078	<0.00078	<0.00078	<0.0016	<0.00078	<0.00078	--	<0.00078	--
GB-130	GB-130-19.0	19	11/15/2017	<0.0041	<0.00082	<0.00082	<0.00082	<0.00082	<0.0016	<0.00082	<0.00082	--	<0.00082	--
GB-130	GB-130-25.75	25.75	11/15/2017	<20	<4	<4	<4	<4	**22**	<4	<4	--	<4	--
GB-131	GB-131-2.0	2	11/13/2017	<0.0044	<0.00088	<0.00088	<0.00088	<0.00088	<0.0018	<0.00088	<0.00088	--	<0.00088	--
GB-131	GB-131-6.5	6.5	12/4/2017	<0.0038	<0.00076	<0.00076	<0.00076	<0.00076	<0.0015	<0.00076	<0.00076	--	<0.00076	--
GB-131	GB-131-9.0	9	12/4/2017	<0.0054	<0.0011	<0.0011	<0.0011	<0.0011	<0.0021	<0.0011	<0.0011	--	<0.0011	--
GB-131	GB-131-12.5	12.5	12/4/2017	<0.21	<0.042	<0.042	<0.042	<0.042	<0.084	<0.042	<0.042	--	<0.042	--
GB-131	GB-131-16.5	16.5	12/4/2017	<0.28	<0.056	<0.056	<0.056	<0.056	**0.38**	<0.056	<0.056	--	<0.056	--
GB-131	GB-131-28.0	28	12/4/2017	<0.005	<0.001	**0.0013**	<0.001	<0.001	<0.002	**0.008**	<0.001	--	**0.0016**	--
GB-131A	GB-131A-5.5	5.5	2/20/2018	<0.26	<0.051	<0.051	<0.051	<0.051	<0.1	<0.051	<0.051	--	<0.051	--
GB-132	GB-132-2.0	2	11/13/2017	<0.0047	<0.00094	<0.00094	<0.00094	<0.00094	<0.0019	<0.00094	<0.00094	--	<0.00094	--
GB-132	GB-132-5.0	5	11/13/2017	<0.0045	<0.0009	<0.0009	<0.0009	<0.0009	<0.0018	**0.00094**	<0.0009	--	<0.0009	--
GB-132	GB-132-10.0	10	11/13/2017	<0.0038	<0.00077	<0.00077	<0.00077	<0.00077	<0.0015	**0.0012**	<0.00077	--	<0.00077	--
GB-132	GB-132-15.0	15	11/13/2017	<0.0036	<0.00072	<0.00072	<0.00072	<0.00072	<0.0014	**0.0048**	<0.00072	--	<0.00072	--
GB-132	GB-132-20.0	20	11/13/2017	<0.0035	<0.0007	<0.0007	<0.0007	<0.0007	<0.0014	<0.0007	<0.0007	--	<0.0007	--
GB-132	GB-132-25.0	25	11/14/2017	<0.0035	<0.00071	<0.00071	<0.00071	<0.00071	<0.0014	<0.00071	<0.00071	--	<0.00071	--
GB-132A	GB-132A-5.5	5.5	2/20/2018	<0.0044	<0.00089	<0.00089	<0.00089	<0.00089	<0.0018	<0.00089	<0.00089	--	<0.00089	--
GB-133	GB-133-2.0	2	11/17/2017	<0.0035	<0.0007	<0.0007	<0.0007	<0.0007	<0.0014	<0.0007	<0.0007	--	<0.0007	--
GB-133	GB-133-5.0	5	11/17/2017	<0.0033	<0.00067	<0.00067	<0.00067	<0.00067	<0.0013	<0.00067	<0.00067	--	<0.00067	--
GB-133	GB-133-10.0	10	11/20/2017	<0.0036	<0.00072	<0.00072	<0.00072	<0.00072	<0.0014	<0.00072	<0.00072	--	<0.00072	--
GB-134	GB-134-2.0	2	11/15/2017	<0.25	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	--	<0.05	--
GB-134	GB-134-5.0	5	11/20/2017	<0.23	<0.047	<0.047	<0.047	<0.047	<0.094	<0.047	<0.047	--	<0.047	--
GB-134	GB-134-10.0	10	11/21/2017	<0.0038	<0.00077	<0.00077	<0.00077	<0.00077	<0.0015	**0.00086**	<0.00077	--	<0.00077	--
GB-134	GB-134-15.5	15.5	11/21/2017	<0.0035	<0.00071	<0.00071	<0.00071	<0.00071	<0.0014	<0.00071	<0.00071	--	<0.00071	--
GB-134A	GB-134A-5.0	5	2/20/2018	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	<0.0019	<0.00096	<0.00096	--	<0.00096	--
GB-135	GB-135-2.0	2	11/17/2017	<0.0049	<0.00099	<0.00099	<0.00099	<0.00099	<0.002	<0.00099	<0.00099	--	<0.00099	--
GB-135	GB-135-5.5	5.5	11/17/2017	<0.0044	<0.00089	<0.00089	<0.00089	<0.00089	<0.0018	<0.00089	<0.00089	--	<0.00089	--
GB-135	GB-135-10.5	10.5	11/20/2017	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	<0.0019	<0.00096	<0.00096	--	<0.00096	--
GB-135	GB-135-14.5	14.5	11/20/2017	<0.0038	<0.00076	<0.00076	<0.00076	<0.00076	<0.0015	<0.00076	<0.00076	--	<0.00076	--
GB-135	GB-135-19.0	19	11/20/2017	<0.0035	<0.0007	<0.0007	<0.0007	<0.0007	<0.0014	<0.0007	<0.0007	--	<0.0007	--
GB-136	GB-136-2.0	2	11/13/2017	<0.0038	<0.00076	<0.00076	<0.00076	<0.00076	<0.0015	<0.00076	<0.00076	--	<0.00076	--
GB-136	GB-136-5.0	5	11/13/2017	<0.0042	<0.00085	<0.00085	<0.00085	<0.00085	<0.0017	**0.015**	<0.00085	--	**0.017**	--
GB-136	GB-136-10.0	10	11/13/2017	<0.0041	<0.00082	<0.00082	<0.00082	<0.00082	<0.0016	<0.00082	<0.00082	--	<0.00082	--
GB-137	GB-137-2.0	2	11/15/2017	<0.0041	<0.00082	<0.00082	<0.00082	<0.00082	<0.0016	<0.00082	<0.00082	--	<0.00082	--
GB-137	GB-137-5.0	5	12/7/2017	<0.004	<0.0008	<0.0008	<0.0008	<0.0008	<0.0016	<0.0008	<0.0008	--	<0.0008	--
GB-137	GB-137-9.0	9	12/7/2017	<0.0042	<0.00085	<0.00085	<0.00085	<0.00085	<0.0017	<0.00085	<0.00085	--	<0.00085	--
GB-138	GB-138-2.0	2	11/9/2017	<0.0035	<0.00071	<0.00071	<0.00071	<0.00071	<0.0014	<0.00071	<0.00071	--	<0.00071	--
GB-138A	GB-138A-5.0	5	1/2/2018	<0.0037	<0.00074	<0.00074	<0.00074	<0.00074	<0.0015	<0.00074	<0.00074	--	<0.00074	--
GB-139	GB-139-3.0	3	11/15/2017	<0.0041	<0.00082	<0.00082	<0.00082	<0.00082	<0.0016	<0.00082	<0.00082	--	<0.00082	--
GB-139	GB-139-5.0	5	11/15/2017	<0.0043	<0.00086	<0.00086	<0.00086	<0.00086	<0.0017	<0.00086	<0.00086	--	<0.00086	--
GB-139	GB-139-10.0	10	11/16/2017	<0.0035	<0.0007	<0.0007	<0.0007	<0.0007	<0.0014	<0.0007	<0.0007	--	<0.0007	--
GB-140	GB-140-2.0	2	11/9/2017	<0.0042	<0.00083	<0.00083	<0.00083	<0.00083	<0.0017	<0.00083	<0.00083	--	<0.00083	--
GB-140	GB-140-4.75	4.75	11/9/2017	<0.0034	<0.00069	<0.00069	<0.00069	<0.00069	<0.0014	<0.00069	<0.00069	--	<0.00069	--
GB-140	GB-140-10.0	10	12/6/2017	<0.0033	<0.00066	<0.00066	<0.00066	<0.00066	<0.0013	<0.00066	<0.00066	--	<0.00066	--
GB-141	GB-141-2.0	2	11/17/2017	<0.0049	<0.00098	<0.00098	<0.00098	<0.00098	<0.002	<0.00098	<0.00098	--	<0.00098	--
GB-141	GB-141-5.0	5	11/21/2017	<0.19	<0.039	<0.039	<0.039	<0.039	<0.078	<0.039	<0.039	--	<0.039	--
GB-141	GB-141-7.5	7.5	12/7/2017	<9.9	<2	<2	<2	<2	<3.9	<2	<2	--	<2	--
GB-142	GB-142-2.0	2	11/8/2017	<0.0043	<0.00086	<0.00086	<0.00086	<0.00086	<0.0017	<0.00086	<0.00086	--	<0.00086	--
GB-142	GB-142-5.0	5	11/8/2017	<0.0045	<0.0009	<0.0009	<0.0009	<0.0009	<0.0018	<0.0009	<0.0009	--	<0.0009	--
GB-142	GB-142-10.0	10	11/8/2017	<2.3	<0.46	<0.46	<0.46	<0.46	**1**	<0.46	<0.46	--	<0.46	--
GB-142	GB-142-15.0	15	11/8/2017	<1.8	<0.37	<0.37	<0.37	<0.37	**1.5**	<0.37	<0.37	--	<0.37	--
GB-142	GB-142-20.0	20	11/8/2017	<2	<0.4	<0.4	<0.4	<0.4	**1.2**	<0.4	<0.4	--	<0.4	--
GB-142	GB-142-23.0	23	11/8/2017	<0.35	<0.07	<0.07	<0.07	<0.07	<0.14	<0.07	<0.07	--	<0.07	--
GB-143	GB-143-2.0	2	11/9/2017	<0.004	<0.00079	<0.00079	<0.00079	<0.00079	<0.0016	<0.00079	<0.00079	--	<0.00079	--
GB-143	GB-143-5.0	5	11/9/2017	<0.0041	<0.00082	<0.00082	<0.00082	<0.00082	<0.0016	<0.00082	<0.00082	--	<0.00082	--
GB-143	GB-143-10.0	10	11/9/2017	<2.2	<0.45	<0.45	<0.45	<0.45	<0.89	<0.45	<0.45	--	<0.45	--
GB-143	GB-143-10.5	10.5	11/9/2017	<34	<6.7	<6.7	<6.7	<6.7	<13	<6.7	<6.7	--	<6.7	--
GB-143	GB-143-13.0	13	11/9/2017	<0.0041	<0.00082	<0.00082	<0.00082	<0.00082	<0.0016	<0.00082	<0.00082	--	<0.00082	--
GB-144	GB-144-2.0	2	11/10/2017	<0.004	<0.00079	<0.00079	<0.00079	<0.00079	<0.0016	<0.00079	<0.00079	--	<0.00079	--

TABLE A-1
ANALYTICAL DATA: VOLATILE ORGANIC COMPOUNDS IN SOIL
TANK FARM AREA, POTRERO POWER PLANT
SAN FRANCISCO, CALIFORNIA

Location ID	Sample ID	Bottom Depth (feet bgs)	Sample Date	2,2-Dichloropropane	2-Butanone (MEK)	2-Chlorotoluene	2-Hexanone (Methyl butyl ketone)	4-Chlorotoluene	4-Methyl-2-pentanone (MIBK)	Acetone	Benzene	Bromobenzene	Bromo-dichloromethane	Bromoform	Bromomethane	Carbon Disulfide
GB-127	GB-127-2.0	2	11/13/2017	<0.0042	<0.017	<0.00084	<0.017	<0.00084	<0.017	<0.042	**0.0032**	<0.00084	<0.00084	<0.0042	<0.017	<0.0084
GB-127	GB-127-6.0	6	12/7/2017	<0.004	<0.016	<0.0008	<0.016	<0.0008	<0.016	<0.04	<0.0008	<0.0008	<0.0008	<0.004	<0.016	<0.008
GB-128	GB-128-2.0	2	11/13/2017	<0.0035	<0.014	<0.0007	<0.014	<0.0007	<0.014	<0.035	<0.0007	<0.0007	<0.0007	<0.0035	<0.014	<0.007
GB-128	GB-128-5.0	5	12/6/2017	<0.0037	<0.015	<0.00075	<0.015	<0.00075	<0.015	<0.037	**0.017**	<0.00075	<0.00075	<0.0037	<0.015	<0.0075
GB-128	GB-128-10.0	10	12/7/2017	<0.0043	<0.017	<0.00087	<0.017	<0.00087	<0.017	<0.043	**0.11 J**	<0.00087	<0.00087	<0.0043	<0.017	<0.0087
GB-129	GB-129-2.0	2	11/8/2017	<0.0042	<0.017	<0.00084	<0.017	<0.00084	<0.017	<0.042	<0.00084	<0.00084	<0.00084	<0.0042	<0.017	<0.0084
GB-129	GB-129-5.0	5	11/20/2017	<0.0047	<0.019	<0.00094	<0.019	<0.00094	<0.019	<0.047	<0.00094	<0.00094	<0.00094	<0.0047	<0.019	<0.0094
GB-129	GB-129-9.25	9.25	11/20/2017	<0.0063	<0.025	<0.0013	<0.025	<0.0013	<0.025	<0.063	**0.0015**	<0.0013	<0.0013	<0.0063	<0.025	**0.017**
GB-129	GB-129-18.75	18.75	11/20/2017	<0.0033	<0.013	<0.00067	<0.013	<0.00067	<0.013	<0.033	**0.00084**	<0.00067	<0.00067	<0.0033	<0.013	**0.0088**
GB-129	GB-129-22.5	22.5	11/20/2017	<0.0037	<0.015	<0.00074	<0.015	<0.00074	<0.015	**0.072**	<0.00074	<0.00074	<0.00074	<0.0037	<0.015	<0.0074
GB-130	GB-130-2.0	2	11/14/2017	<0.0045	<0.018	<0.0009	<0.018	<0.0009	<0.018	<0.045	**0.0018**	<0.0009	<0.0009	<0.0045	<0.018	<0.009
GB-130	GB-130-5.0	5	11/15/2017	<0.21	<0.84	<0.042	<0.84	<0.042	<0.84	<2.1	**0.048**	<0.042	<0.042	<0.21	<0.84	<0.42
GB-130	GB-130-10.0	10	11/15/2017	<0.0039	<0.016	<0.00078	<0.016	<0.00078	<0.016	<0.039	**0.0023**	<0.00078	<0.00078	<0.0039	<0.016	<0.0078
GB-130	GB-130-15.0	15	11/15/2017	<0.0039	<0.016	<0.00078	<0.016	<0.00078	<0.016	<0.039	**0.0014**	<0.00078	<0.00078	<0.0039	<0.016	<0.0078
GB-130	GB-130-19.0	19	11/15/2017	<0.0041	<0.016	<0.00082	<0.016	<0.00082	<0.016	<0.041	**0.0015**	<0.00082	<0.00082	<0.0041	<0.016	<0.0082
GB-130	GB-130-25.75	25.75	11/15/2017	<20	<80	<4	<80	<4	<80	<200	**600**	<4	<4	<20	<80	<40
GB-131	GB-131-2.0	2	11/13/2017	<0.0044	<0.018	<0.00088	<0.018	<0.00088	<0.018	<0.044	**0.0024**	<0.00088	<0.00088	<0.0044	<0.018	<0.0088
GB-131	GB-131-6.5	6.5	12/4/2017	<0.0038	<0.015	<0.00076	<0.015	<0.00076	<0.015	<0.038	**0.0067 J**	<0.00076	<0.00076	<0.0038	<0.015	<0.0076
GB-131	GB-131-9.0	9	12/4/2017	<0.0054	<0.021	<0.0011	<0.021	<0.0011	<0.021	<0.054	**0.012 J**	<0.0011	<0.0011	<0.0054	<0.021	<0.011
GB-131	GB-131-12.5	12.5	12/4/2017	<0.21	<0.84	<0.042	<0.84	<0.042	<0.84	<2.1	**0.098**	<0.042	<0.042	<0.21	<0.84	<0.42
GB-131	GB-131-16.5	16.5	12/4/2017	<0.28	<1.1	<0.056	<1.1	<0.056	<1.1	<2.8	**0.3**	<0.056	<0.056	<0.28	<1.1	<0.56
GB-131	GB-131-28.0	28	12/4/2017	<0.005	<0.02	<0.001	<0.02	<0.001	<0.02	<0.05	**0.0012**	<0.001	<0.001	<0.005	<0.02	<0.01
GB-131A	GB-131A-5.5	5.5	2/20/2018	<0.26	<1	<0.051	<1	<0.051	<1	<2.6	**0.072**	<0.051	<0.051	<0.26	<1	<0.51
GB-132	GB-132-2.0	2	11/13/2017	<0.0047	<0.019	<0.00094	<0.019	<0.00094	<0.019	**0.055**	**0.0062**	<0.00094	<0.00094	<0.0047	<0.019	<0.0094
GB-132	GB-132-5.0	5	11/13/2017	<0.0045	<0.018	<0.0009	<0.018	<0.0009	<0.018	**0.056**	**0.03**	<0.0009	<0.0009	<0.0045	<0.018	**0.012**
GB-132	GB-132-10.0	10	11/13/2017	<0.0038	<0.015	<0.00077	<0.015	<0.00077	<0.015	<0.038	**0.0042**	<0.00077	<0.00077	<0.0038	<0.015	<0.0077
GB-132	GB-132-15.0	15	11/13/2017	<0.0036	<0.014	<0.00072	<0.014	<0.00072	<0.014	<0.036	**0.0016**	<0.00072	<0.00072	<0.0036	<0.014	<0.0072
GB-132	GB-132-20.0	20	11/13/2017	<0.0035	<0.014	<0.0007	<0.014	<0.0007	<0.014	<0.035	**0.0046**	<0.0007	<0.0007	<0.0035	<0.014	<0.007
GB-132	GB-132-25.0	25	11/14/2017	<0.0035	<0.014	<0.00071	<0.014	<0.00071	<0.014	<0.035	**0.0054**	<0.00071	<0.00071	<0.0035	<0.014	<0.0071
GB-132A	GB-132A-5.5	5.5	2/20/2018	<0.0044	<0.018	<0.00089	<0.018	<0.00089	<0.018	<0.044	**0.0071**	<0.00089	<0.00089	<0.0044	<0.018	<0.0089
GB-133	GB-133-2.0	2	11/17/2017	<0.0035	<0.014	<0.0007	<0.014	<0.0007	<0.014	<0.035	**0.00099**	<0.0007	<0.0007	<0.0035	<0.014	<0.007
GB-133	GB-133-5.0	5	11/17/2017	<0.0033	<0.013	<0.00067	<0.013	<0.00067	<0.013	<0.033	<0.00067	<0.00067	<0.00067	<0.0033	<0.013	<0.0067
GB-133	GB-133-10.0	10	11/20/2017	<0.0036	<0.014	<0.00072	<0.014	<0.00072	<0.014	<0.036	<0.00072	<0.00072	<0.00072	<0.0036	<0.014	<0.0072
GB-134	GB-134-2.0	2	11/15/2017	<0.25	<1	<0.05	<1	<0.05	<1	<2.5	**0.16**	<0.05	<0.05	<0.25	<1	<0.5
GB-134	GB-134-5.0	5	11/20/2017	<0.23	<0.94	<0.047	<0.94	<0.047	<0.94	<2.3	**0.21**	<0.047	<0.047	<0.23	<0.94	<0.47
GB-134	GB-134-10.0	10	11/21/2017	<0.0038	<0.015	<0.00077	<0.015	<0.00077	<0.015	<0.038	**0.0033**	<0.00077	<0.00077	<0.0038	<0.015	<0.0077
GB-134	GB-134-15.5	15.5	11/21/2017	<0.0035	<0.014	<0.00071	<0.014	<0.00071	<0.014	<0.035	<0.00071	<0.00071	<0.00071	<0.0035	<0.014	<0.0071
GB-134A	GB-134A-5.0	5	2/20/2018	<0.0048	<0.019	<0.00096	<0.019	<0.00096	<0.019	<0.048	**0.031**	<0.00096	<0.00096	<0.0048	<0.019	<0.0096
GB-135	GB-135-2.0	2	11/17/2017	<0.0049	<0.02	<0.00099	<0.02	<0.00099	<0.02	**0.051**	**0.0024**	<0.00099	<0.00099	<0.0049	<0.02	**0.029**
GB-135	GB-135-5.5	5.5	11/17/2017	<0.0044	<0.018	<0.00089	<0.018	<0.00089	<0.018	**0.048**	<0.00089	<0.00089	<0.00089	<0.0044	<0.018	<0.0089
GB-135	GB-135-10.5	10.5	11/20/2017	<0.0048	<0.019	<0.00096	<0.019	<0.00096	<0.019	<0.048	**0.0026**	<0.00096	<0.00096	<0.0048	<0.019	**0.011**
GB-135	GB-135-14.5	14.5	11/20/2017	<0.0038	<0.015	<0.00076	<0.015	<0.00076	<0.015	**0.041**	**0.001**	<0.00076	<0.00076	<0.0038	<0.015	<0.0076
GB-135	GB-135-19.0	19	11/20/2017	<0.0035	<0.014	<0.0007	<0.014	<0.0007	<0.014	<0.035	**0.00096**	<0.0007	<0.0007	<0.0035	<0.014	<0.007
GB-136	GB-136-2.0	2	11/13/2017	<0.0038	<0.015	<0.00076	<0.015	<0.00076	<0.015	**0.041**	**0.0027**	<0.00076	<0.00076	<0.0038	<0.015	<0.0076
GB-136	GB-136-5.0	5	11/13/2017	<0.0042	<0.017	<0.00085	<0.017	<0.00085	<0.017	**0.045**	**0.0043**	<0.00085	<0.00085	<0.0042	<0.017	<0.0085
GB-136	GB-136-10.0	10	11/13/2017	<0.0041	<0.016	<0.00082	<0.016	<0.00082	<0.016	<0.041	<0.00082	<0.00082	<0.00082	<0.0041	<0.016	<0.0082
GB-137	GB-137-2.0	2	11/15/2017	<0.0041	<0.016	<0.00082	<0.016	<0.00082	<0.016	<0.041	<0.00082	<0.00082	<0.00082	<0.0041	<0.016	<0.0082
GB-137	GB-137-5.0	5	12/7/2017	<0.004	<0.016	<0.0008	<0.016	<0.0008	<0.016	<0.04	<0.0008	<0.0008	<0.0008	<0.004	<0.016	<0.008
GB-137	GB-137-9.0	9	12/7/2017	<0.0042	<0.017	<0.00085	<0.017	<0.00085	<0.017	<0.042	<0.00085	<0.00085	<0.00085	<0.0042	<0.017	<0.0085
GB-138	GB-138-2.0	2	11/9/2017	<0.0035	<0.014	<0.00071	<0.014	<0.00071	<0.014	<0.035	**0.0013**	<0.00071	<0.00071	<0.0035	<0.014	<0.0071
GB-138A	GB-138A-5.0	5	1/2/2018	<0.0037	<0.015	<0.00074	<0.015	<0.00074	<0.015	<0.037	<0.00074	<0.00074	<0.00074	<0.0037	<0.015	<0.0074
GB-139	GB-139-3.0	3	11/15/2017	<0.0041	<0.016	<0.00082	<0.016	<0.00082	<0.016	**0.045**	**0.011**	<0.00082	<0.00082	<0.0041	<0.016	<0.0082
GB-139	GB-139-5.0	5	11/15/2017	<0.0043	<0.017	<0.00086	<0.017	<0.00086	<0.017	<0.043	<0.00086	<0.00086	<0.00086	<0.0043	<0.017	<0.0086
GB-139	GB-139-10.0	10	11/16/2017	<0.0035	<0.014	<0.0007	<0.014	<0.0007	<0.014	<0.035	<0.0007	<0.0007	<0.0007	<0.0035	<0.014	<0.007
GB-140	GB-140-2.0	2	11/9/2017	<0.0042	<0.017	<0.00083	<0.017	<0.00083	<0.017	<0.042	<0.00083	<0.00083	<0.00083	<0.0042	<0.017	<0.0083
GB-140	GB-140-4.75	4.75	11/9/2017	<0.0034	<0.014	<0.00069	<0.014	<0.00069	<0.014	<0.034	**0.0013**	<0.00069	<0.00069	<0.0034	<0.014	<0.0069
GB-140	GB-140-10.0	10	12/6/2017	<0.0033	<0.013	<0.00066	<0.013	<0.00066	<0.013	<0.033	<0.00066	<0.00066	<0.00066	<0.0033	<0.013	<0.0066
GB-141	GB-141-2.0	2	11/17/2017	<0.0049	<0.02	<0.00098	<0.02	<0.00098	<0.02	<0.049	<0.00098	<0.00098	<0.00098	<0.0049	<0.02	<0.0098
GB-141	GB-141-5.0	5	11/21/2017	<0.19	<0.78	<0.039	<0.78	<0.039	<0.78	<1.9	**0.1**	<0.039	<0.039	<0.19	<0.78	<0.39
GB-141	GB-141-7.5	7.5	12/7/2017	<9.9	<39	<2	<39	<2	<39	<99	<2	<2	<2	<9.9	<39	<20
GB-142	GB-142-2.0	2	11/8/2017	<0.0043	<0.017	<0.00086	<0.017	<0.00086	<0.017	<0.043	<0.00086	<0.00086	<0.00086	<0.0043	<0.017	<0.0086
GB-142	GB-142-5.0	5	11/8/2017	<0.0045	<0.018	<0.0009	<0.018	<0.0009	<0.018	<0.045	**0.0061**	<0.0009	<0.0009	<0.0045	<0.018	<0.009
GB-142	GB-142-10.0	10	11/8/2017	<2.3	<9.2	<0.46	<9.2	<0.46	<9.2	<23	**32**	<0.46	<0.46	<2.3	<9.2	<4.6
GB-142	GB-142-15.0	15	11/8/2017	<1.8	<7.3	<0.37	<7.3	<0.37	<7.3	<18	**42**	<0.37	<0.37	<1.8	<7.3	<3.7
GB-142	GB-142-20.0	20	11/8/2017	<2	<8.1	<0.4	<8.1	<0.4	<8.1	<20	**12**	<0.4	<0.4	<2	<8.1	<4
GB-142	GB-142-23.0	23	11/8/2017	<0.35	<1.4	<0.07	<1.4	<0.07	<1.4	<3.5	**6.6**	<0.07	<0.07	<0.35	<1.4	<0.7
GB-143	GB-143-2.0	2	11/9/2017	<0.004	<0.016	<0.00079	<0.016	<0.00079	<0.016	<0.04	<0.00079	<0.00079	<0.00079	<0.004	<0.016	<0.0079
GB-143	GB-143-5.0	5	11/9/2017	<0.0041	<0.016	<0.00082	<0.016	<0.00082	<0.016	<0.041	**0.0084**	<0.00082	<0.00082	<0.0041	<0.016	<0.0082
GB-143	GB-143-10.0	10	11/9/2017	<2.2	<8.9	<0.45	<8.9	<0.45	<8.9	<22	**5.8**	<0.45	<0.45	<2.2	<8.9	<4.5
GB-143	GB-143-10.5	10.5	11/9/2017	<34	<130	<6.7	<130	<6.7	<130	<340	**56**	<6.7	<6.7	<34	<130	<67
GB-143	GB-143-13.0	13	11/9/2017	<0.0041	<0.016	<0.00082	<0.016	<0.00082	<0.016	<0.041	**0.0014**	<0.00082	<0.00082	<0.0041	<0.016	<0.0082
GB-144	GB-144-2.0	2	11/10/2017	<0.004	<0.016	<0.00079	<0.016	<0.00079	<0.016	<0.04	**0.009**	<0.00079	<0.00079	<0.004	<0.016	<0.0079

TABLE A-1
ANALYTICAL DATA: VOLATILE ORGANIC COMPOUNDS IN SOIL
TANK FARM AREA, POTRERO POWER PLANT
SAN FRANCISCO, CALIFORNIA

Location ID	Sample ID	Bottom Depth (feet bgs)	Sample Date	Carbon Tetrachloride	Chlorobenzene	Chloro-bromomethane	Chloro-dibromomethane	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Cyclohexanone	Cumene	Dibromomethane
GB-127	GB-127-2.0	2	11/13/2017	<0.00084	<0.00084	<0.0017	<0.0017	<0.0017	<0.00084	<0.017	<0.00084	<0.00084	<0.042	<0.00084	<0.00084
GB-127	GB-127-6.0	6	12/7/2017	<0.0008	<0.0008	<0.0016	<0.0016	<0.0016	<0.0008	<0.016	<0.0008	<0.0008	<0.04	<0.0008	<0.0008
GB-128	GB-128-2.0	2	11/13/2017	<0.0007	<0.0007	<0.0014	<0.0014	<0.0014	<0.0007	<0.014	<0.0007	<0.0007	<0.035	<0.0007	<0.0007
GB-128	GB-128-5.0	5	12/6/2017	<0.00075	<0.00075	<0.0015	<0.0015	<0.0015	<0.00075	<0.015	<0.00075	<0.00075	<0.037	**0.0026**	<0.00075
GB-128	GB-128-10.0	10	12/7/2017	<0.00087	<0.00087	<0.0017	<0.0017	<0.0017	<0.00087	<0.017	<0.00087	<0.00087	<0.043	<0.00087	<0.00087
GB-129	GB-129-2.0	2	11/8/2017	<0.00084	<0.00084	<0.0017	<0.0017	<0.0017	<0.00084	<0.017	<0.00084	<0.00084	<0.042	<0.00084	<0.00084
GB-129	GB-129-5.0	5	11/20/2017	<0.00094	<0.00094	<0.0019	<0.0019	<0.0019	<0.00094	<0.019	<0.00094	<0.00094	<0.047	<0.00094	<0.00094
GB-129	GB-129-9.25	9.25	11/20/2017	<0.0013	<0.0013	<0.0025	<0.0025	<0.0025	<0.0013	<0.025	<0.0013	<0.0013	<0.063	<0.0013	<0.0013
GB-129	GB-129-18.75	18.75	11/20/2017	<0.00067	<0.00067	<0.0013	<0.0013	<0.0013	<0.00067	<0.013	<0.00067	<0.00067	<0.033	<0.00067	<0.00067
GB-129	GB-129-22.5	22.5	11/20/2017	<0.00074	<0.00074	<0.0015	<0.0015	<0.0015	<0.00074	<0.015	<0.00074	<0.00074	<0.037	<0.00074	<0.00074
GB-130	GB-130-2.0	2	11/14/2017	<0.0009	<0.0009	<0.0018	<0.0018	<0.0018	<0.0009	<0.018	<0.0009	<0.0009	<0.045	<0.0009	<0.0009
GB-130	GB-130-5.0	5	11/15/2017	<0.042	<0.042	<0.084	<0.084	<0.084	<0.042	<0.84	<0.042	<0.042	<2.1	<0.042	<0.042
GB-130	GB-130-10.0	10	11/15/2017	<0.00078	<0.00078	<0.0016	<0.0016	<0.0016	<0.00078	<0.016	<0.00078	<0.00078	<0.039	<0.00078	<0.00078
GB-130	GB-130-15.0	15	11/15/2017	<0.00078	<0.00078	<0.0016	<0.0016	<0.0016	<0.00078	<0.016	<0.00078	<0.00078	<0.039	<0.00078	<0.00078
GB-130	GB-130-19.0	19	11/15/2017	<0.00082	<0.00082	<0.0016	<0.0016	<0.0016	<0.00082	<0.016	<0.00082	<0.00082	<0.041	<0.00082	<0.00082
GB-130	GB-130-25.75	25.75	11/15/2017	<4	<4	<8	<8	<8	<4	<80	<4	<4	<200	**9.2**	<4
GB-131	GB-131-2.0	2	11/13/2017	<0.00088	<0.00088	<0.0018	<0.0018	<0.0018	<0.00088	<0.018	<0.00088	<0.00088	<0.044	<0.00088	<0.00088
GB-131	GB-131-6.5	6.5	12/4/2017	<0.00076	<0.00076	<0.0015	<0.0015	<0.0015	<0.00076	<0.015	<0.00076	<0.00076	<0.038	<0.00076	<0.00076
GB-131	GB-131-9.0	9	12/4/2017	<0.0011	<0.0011	<0.0021	<0.0021	<0.0021	<0.0011	<0.021	<0.0011	<0.0011	<0.054	**0.0019**	<0.0011
GB-131	GB-131-12.5	12.5	12/4/2017	<0.042	<0.042	<0.084	<0.084	<0.084	<0.042	<0.84	<0.042	<0.042	<2.1	<0.042	<0.042
GB-131	GB-131-16.5	16.5	12/4/2017	<0.056	<0.056	<0.11	<0.11	<0.11	<0.056	<1.1	<0.056	<0.056	<2.8	<0.056	<0.056
GB-131	GB-131-28.0	28	12/4/2017	<0.001	**0.0027**	<0.002	<0.002	<0.002	<0.001	<0.02	<0.001	<0.001	<0.05	**0.0035**	<0.001
GB-131A	GB-131A-5.5	5.5	2/20/2018	<0.051	<0.051	<0.1	<0.1	<0.1	<0.051	<1	<0.051	<0.051	<2.6	<0.051	<0.051
GB-132	GB-132-2.0	2	11/13/2017	<0.00094	<0.00094	<0.0019	<0.0019	<0.0019	<0.00094	<0.019	<0.00094	<0.00094	<0.047	<0.00094	<0.00094
GB-132	GB-132-5.0	5	11/13/2017	<0.0009	<0.0009	<0.0018	<0.0018	<0.0018	<0.0009	<0.018	<0.0009	<0.0009	<0.045	**0.0012**	<0.0009
GB-132	GB-132-10.0	10	11/13/2017	<0.00077	<0.00077	<0.0015	<0.0015	<0.0015	<0.00077	<0.015	<0.00077	<0.00077	<0.038	<0.00077	<0.00077
GB-132	GB-132-15.0	15	11/13/2017	<0.00072	**0.00076**	<0.0014	<0.0014	<0.0014	<0.00072	<0.014	<0.00072	<0.00072	<0.036	<0.00072	<0.00072
GB-132	GB-132-20.0	20	11/13/2017	<0.0007	<0.0007	<0.0014	<0.0014	<0.0014	<0.0007	<0.014	<0.0007	<0.0007	<0.035	<0.0007	<0.0007
GB-132	GB-132-25.0	25	11/14/2017	<0.00071	<0.00071	<0.0014	<0.0014	<0.0014	<0.00071	<0.014	<0.00071	<0.00071	<0.035	**0.0012**	<0.00071
GB-132A	GB-132A-5.5	5.5	2/20/2018	<0.00089	<0.00089	<0.0018	<0.0018	<0.0018	<0.00089	<0.018	<0.00089	<0.00089	<0.044	<0.00089	<0.00089
GB-133	GB-133-2.0	2	11/17/2017	<0.0007	<0.0007	<0.0014	<0.0014	<0.0014	<0.0007	<0.014	<0.0007	<0.0007	<0.035	<0.0007	<0.0007
GB-133	GB-133-5.0	5	11/17/2017	<0.00067	<0.00067	<0.0013	<0.0013	<0.0013	<0.00067	<0.013	<0.00067	<0.00067	<0.033	<0.00067	<0.00067
GB-133	GB-133-10.0	10	11/20/2017	<0.00072	<0.00072	<0.0014	<0.0014	<0.0014	<0.00072	<0.014	<0.00072	<0.00072	<0.036	<0.00072	<0.00072
GB-134	GB-134-2.0	2	11/15/2017	<0.05	<0.05	<0.1	<0.1	<0.1	<0.05	<1	<0.05	<0.05	<2.5	**0.084**	<0.05
GB-134	GB-134-5.0	5	11/20/2017	<0.047	<0.047	<0.094	<0.094	<0.094	<0.047	<0.94	<0.047	<0.047	<2.3	**0.072**	<0.047
GB-134	GB-134-10.0	10	11/21/2017	<0.00077	<0.00077	<0.0015	<0.0015	<0.0015	<0.00077	<0.015	<0.00077	<0.00077	<0.038	<0.00077	<0.00077
GB-134	GB-134-15.5	15.5	11/21/2017	<0.00071	<0.00071	<0.0014	<0.0014	<0.0014	<0.00071	<0.014	<0.00071	<0.00071	<0.035	<0.00071	<0.00071
GB-134A	GB-134A-5.0	5	2/20/2018	<0.00096	<0.00096	<0.0019	<0.0019	<0.0019	<0.00096	<0.019	<0.00096	<0.00096	<0.048	**0.003**	<0.00096
GB-135	GB-135-2.0	2	11/17/2017	<0.00099	<0.00099	<0.002	<0.002	<0.002	<0.00099	<0.02	<0.00099	<0.00099	<0.049	<0.00099	<0.00099
GB-135	GB-135-5.5	5.5	11/17/2017	<0.00089	<0.00089	<0.0018	<0.0018	<0.0018	<0.00089	<0.018	<0.00089	<0.00089	<0.044	<0.00089	<0.00089
GB-135	GB-135-10.5	10.5	11/20/2017	<0.00096	<0.00096	<0.0019	<0.0019	<0.0019	<0.00096	<0.019	<0.00096	<0.00096	<0.048	<0.00096	<0.00096
GB-135	GB-135-14.5	14.5	11/20/2017	<0.00076	<0.00076	<0.0015	<0.0015	<0.0015	<0.00076	<0.015	<0.00076	<0.00076	<0.038	<0.00076	<0.00076
GB-135	GB-135-19.0	19	11/20/2017	<0.0007	<0.0007	<0.0014	<0.0014	<0.0014	<0.0007	<0.014	<0.0007	<0.0007	<0.035	<0.0007	<0.0007
GB-136	GB-136-2.0	2	11/13/2017	<0.00076	<0.00076	<0.0015	<0.0015	<0.0015	<0.00076	<0.015	<0.00076	<0.00076	--	<0.00076	<0.00076
GB-136	GB-136-5.0	5	11/13/2017	<0.00085	<0.00085	<0.0017	<0.0017	<0.0017	<0.00085	<0.017	<0.00085	<0.00085	<0.042	<0.00085	<0.00085
GB-136	GB-136-10.0	10	11/13/2017	<0.00082	<0.00082	<0.0016	<0.0016	<0.0016	<0.00082	<0.016	<0.00082	<0.00082	<0.041	<0.00082	<0.00082
GB-137	GB-137-2.0	2	11/15/2017	<0.00082	<0.00082	<0.0016	<0.0016	<0.0016	<0.00082	<0.016	<0.00082	<0.00082	<0.041	<0.00082	<0.00082
GB-137	GB-137-5.0	5	12/7/2017	<0.0008	<0.0008	<0.0016	<0.0016	<0.0016	<0.0008	<0.016	<0.0008	<0.0008	<0.04	<0.0008	<0.0008
GB-137	GB-137-9.0	9	12/7/2017	<0.00085	<0.00085	<0.0017	<0.0017	<0.0017	<0.00085	<0.017	<0.00085	<0.00085	<0.042	<0.00085	<0.00085
GB-138	GB-138-2.0	2	11/9/2017	<0.00071	<0.00071	<0.0014	<0.0014	<0.0014	<0.00071	<0.014	<0.00071	<0.00071	<0.035	<0.00071	<0.00071
GB-138A	GB-138A-5.0	5	1/2/2018	<0.00074	<0.00074	<0.0015	<0.0015	<0.0015	<0.00074	<0.015	<0.00074	<0.00074	<0.037	<0.00074	<0.00074
GB-139	GB-139-3.0	3	11/15/2017	<0.00082	<0.00082	<0.0016	<0.0016	<0.0016	<0.00082	<0.016	<0.00082	<0.00082	<0.041	<0.00082	<0.00082
GB-139	GB-139-5.0	5	11/15/2017	<0.00086	<0.00086	<0.0017	<0.0017	<0.0017	<0.00086	<0.017	<0.00086	<0.00086	<0.043	<0.00086	<0.00086
GB-139	GB-139-10.0	10	11/16/2017	<0.0007	<0.0007	<0.0014	<0.0014	<0.0014	<0.0007	<0.014	<0.0007	<0.0007	<0.035	<0.0007	<0.0007
GB-140	GB-140-2.0	2	11/9/2017	<0.00083	<0.00083	<0.0017	<0.0017	<0.0017	<0.00083	<0.017	<0.00083	<0.00083	<0.042	<0.00083	<0.00083
GB-140	GB-140-4.75	4.75	11/9/2017	<0.00069	<0.00069	<0.0014	<0.0014	<0.0014	<0.00069	<0.014	<0.00069	<0.00069	<0.034	<0.00069	<0.00069
GB-140	GB-140-10.0	10	12/6/2017	<0.00066	<0.00066	<0.0013	<0.0013	<0.0013	<0.00066	<0.013	<0.00066	<0.00066	<0.033	<0.00066	<0.00066
GB-141	GB-141-2.0	2	11/17/2017	<0.00098	<0.00098	<0.002	<0.002	<0.002	<0.00098	<0.02	<0.00098	<0.00098	<0.049	<0.00098	<0.00098
GB-141	GB-141-5.0	5	11/21/2017	<0.039	<0.039	<0.078	<0.078	<0.078	<0.039	<0.78	<0.039	<0.039	<1.9	<0.039	<0.039
GB-141	GB-141-7.5	7.5	12/7/2017	<2	<2	<3.9	<3.9	<3.9	<2	<39	<2	<2	<99	<2	<2
GB-142	GB-142-2.0	2	11/8/2017	<0.00086	<0.00086	<0.0017	<0.0017	<0.0017	<0.00086	<0.017	<0.00086	<0.00086	<0.043	<0.00086	<0.00086
GB-142	GB-142-5.0	5	11/8/2017	<0.0009	<0.0009	<0.0018	<0.0018	<0.0018	<0.0009	<0.018	<0.0009	<0.0009	<0.045	<0.0009	<0.0009
GB-142	GB-142-10.0	10	11/8/2017	<0.46	<0.46	<0.92	<0.92	<0.92	<0.46	<9.2	<0.46	<0.46	<23	<0.46	<0.46
GB-142	GB-142-15.0	15	11/8/2017	<0.37	<0.37	<0.73	<0.73	<0.73	<0.37	<7.3	<0.37	<0.37	<18	<0.37	<0.37
GB-142	GB-142-20.0	20	11/8/2017	<0.4	<0.4	<0.81	<0.81	<0.81	<0.4	<8.1	<0.4	<0.4	<20	<0.4	<0.4
GB-142	GB-142-23.0	23	11/8/2017	<0.07	<0.07	<0.14	<0.14	<0.14	<0.07	<1.4	<0.07	<0.07	<3.5	<0.07	<0.07
GB-143	GB-143-2.0	2	11/9/2017	<0.00079	<0.00079	<0.0016	<0.0016	<0.0016	<0.00079	<0.016	<0.00079	<0.00079	<0.04	<0.00079	<0.00079
GB-143	GB-143-5.0	5	11/9/2017	<0.00082	<0.00082	<0.0016	<0.0016	<0.0016	<0.00082	<0.016	<0.00082	<0.00082	<0.041	<0.00082	<0.00082
GB-143	GB-143-10.0	10	11/9/2017	<0.45	<0.45	<0.89	<0.89	<0.89	<0.45	<8.9	<0.45	<0.45	<22	<0.45	<0.45
GB-143	GB-143-10.5	10.5	11/9/2017	<6.7	<6.7	<13	<13	<13	<6.7	<130	<6.7	<6.7	<340	<6.7	<6.7
GB-143	GB-143-13.0	13	11/9/2017	<0.00082	<0.00082	<0.0016	<0.0016	<0.0016	<0.00082	<0.016	<0.00082	<0.00082	<0.041	<0.00082	<0.00082
GB-144	GB-144-2.0	2	11/10/2017	<0.00079	<0.00079	<0.0016	<0.0016	<0.0016	<0.00079	<0.016	<0.00079	<0.00079	<0.04	<0.00079	<0.00079

TABLE A-1
ANALYTICAL DATA: VOLATILE ORGANIC COMPOUNDS IN SOIL
TANK FARM AREA, POTRERO POWER PLANT
SAN FRANCISCO, CALIFORNIA

Location ID	Sample ID	Bottom Depth (feet bgs)	Sample Date	Cymene	Dichloro-difluoromethane (Freon 12)	Ethanol	Ethyl tert-butyl ether (ETBE)	Ethylbenzene	Hexachloro-butadiene	Isopropyl ether	m,p-Xylenes	Methyl tert-butyl ether (MTBE)	Methylene chloride	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene
GB-127	GB-127-2.0	2	11/13/2017	<0.00084	<0.0017	<0.42	<0.00084	<0.00084	--	<0.00084	<0.0017	<0.0017	<0.0084	<0.0084	<0.00084	<0.0017	<0.00084
GB-127	GB-127-6.0	6	12/7/2017	<0.0008	<0.0016	<0.4	<0.0008	<0.0008	--	<0.0008	<0.0016	<0.0016	<0.008	<0.008	<0.0008	<0.0016	<0.0008
GB-128	GB-128-2.0	2	11/13/2017	<0.0007	<0.0014	<0.35	<0.0007	<0.0007	--	<0.0007	<0.0014	<0.0014	<0.007	<0.007	<0.0007	<0.0014	<0.0007
GB-128	GB-128-5.0	5	12/6/2017	<0.00075	<0.0015	<0.37	<0.00075	**0.011**	--	<0.00075	**0.0016**	<0.0015	<0.0075	**5.9**	<0.00075	<0.0015	<0.00075
GB-128	GB-128-10.0	10	12/7/2017	<0.00087	<0.0017	<0.43	<0.00087	**0.0083**	--	<0.00087	**0.0078**	<0.0017	<0.0087	<0.47	<0.00087	<0.0017	**0.0027**
GB-129	GB-129-2.0	2	11/8/2017	<0.00084	<0.0017	<0.42	<0.00084	<0.00084	--	<0.00084	<0.0017	<0.0017	<0.0084	<0.0084	<0.00084	<0.0017	<0.00084
GB-129	GB-129-5.0	5	11/20/2017	<0.00094	<0.0019	<0.47	<0.00094	<0.00094	--	<0.00094	<0.0019	<0.0019	<0.0094	<0.0094	<0.00094	<0.0019	<0.00094
GB-129	GB-129-9.25	9.25	11/20/2017	<0.0013	<0.0025	<0.63	<0.0013	<0.0013	--	<0.0013	<0.0025	<0.0025	<0.013	<0.013	<0.0013	<0.0025	<0.0013
GB-129	GB-129-18.75	18.75	11/20/2017	<0.00067	<0.0013	<0.33	<0.00067	<0.00067	--	<0.00067	<0.0013	<0.0013	<0.0067	<0.0067	<0.00067	<0.0013	<0.00067
GB-129	GB-129-22.5	22.5	11/20/2017	<0.00074	<0.0015	<0.37	<0.00074	<0.00074	--	<0.00074	<0.0015	<0.0015	<0.0074	<0.0074	<0.00074	<0.0015	<0.00074
GB-130	GB-130-2.0	2	11/14/2017	<0.0009	<0.0018	<0.45	<0.0009	<0.0009	--	<0.0009	<0.0018	<0.0018	<0.009	<0.009	<0.0009	<0.0018	<0.0009
GB-130	GB-130-5.0	5	11/15/2017	<0.042	<0.084	<21	<0.042	**0.076**	--	<0.042	<0.084	<0.084	<0.42	**18**	<0.042	<0.084	<0.042
GB-130	GB-130-10.0	10	11/15/2017	<0.00078	<0.0016	<0.39	<0.00078	<0.00078	--	<0.00078	<0.0016	<0.0016	<0.0078	<0.0078	<0.00078	<0.0016	<0.00078
GB-130	GB-130-15.0	15	11/15/2017	<0.00078	<0.0016	<0.39	<0.00078	<0.00078	--	<0.00078	<0.0016	<0.0016	<0.0078	<0.0078	<0.00078	<0.0016	<0.00078
GB-130	GB-130-19.0	19	11/15/2017	<0.00082	<0.0016	<0.41	<0.00082	<0.00082	--	<0.00082	<0.0016	<0.0016	<0.0082	<0.0082	<0.00082	<0.0016	<0.00082
GB-130	GB-130-25.75	25.75	11/15/2017	<4	<8	<2000	<4	**400**	--	<4	**120**	<8	<40	**5300**	<4	<8	**58**
GB-131	GB-131-2.0	2	11/13/2017	<0.00088	<0.0018	<0.44	<0.00088	<0.00088	--	<0.00088	<0.0018	<0.0018	<0.0088	**0.0098**	<0.00088	<0.0018	<0.00088
GB-131	GB-131-6.5	6.5	12/4/2017	<0.00076	<0.0015	<0.38	<0.00076	<0.00076	--	<0.00076	<0.0015	<0.0015	<0.0076	**0.035**	<0.00076	<0.0015	<0.00076
GB-131	GB-131-9.0	9	12/4/2017	<0.0011	<0.0021	<0.54	<0.0011	**0.0044**	--	<0.0011	<0.0021	<0.0021	<0.011	**11**	**0.0013**	<0.0021	**0.0029**
GB-131	GB-131-12.5	12.5	12/4/2017	<0.042	<0.084	<21	<0.042	<0.042	--	<0.042	<0.084	<0.084	<0.42	**25**	<0.042	<0.084	<0.042
GB-131	GB-131-16.5	16.5	12/4/2017	<0.056	<0.11	<28	<0.056	**1.3**	--	<0.056	**0.74**	<0.11	<0.56	**87**	**0.17**	**0.16**	**0.55**
GB-131	GB-131-28.0	28	12/4/2017	<0.001	<0.002	<0.5	<0.001	<0.001	--	<0.001	<0.002	<0.002	<0.01	<0.01	<0.001	<0.002	<0.001
GB-131A	GB-131A-5.5	5.5	2/20/2018	<0.051	<0.1	<26	<0.051	**0.07**	--	<0.051	<0.1	<0.1	<0.51	**5.1**	<0.051	<0.1	<0.051
GB-132	GB-132-2.0	2	11/13/2017	<0.00094	<0.0019	<0.47	<0.00094	<0.00094	--	<0.00094	<0.0019	<0.0019	<0.0094	**0.17**	<0.00094	<0.0019	**0.002**
GB-132	GB-132-5.0	5	11/13/2017	<0.0009	<0.0018	<0.45	<0.0009	**0.0043**	--	<0.0009	--	<0.0018	<0.009	**5**	<0.0009	<0.0018	**0.0022**
GB-132	GB-132-10.0	10	11/13/2017	<0.00077	<0.0015	<0.38	<0.00077	<0.00077	--	<0.00077	<0.0015	<0.0015	<0.0077	<0.0077	<0.00077	<0.0015	<0.00077
GB-132	GB-132-15.0	15	11/13/2017	<0.00072	<0.0014	<0.36	<0.00072	<0.00072	--	<0.00072	<0.0014	<0.0014	<0.0072	<0.0072	<0.00072	<0.0014	<0.00072
GB-132	GB-132-20.0	20	11/13/2017	<0.0007	<0.0014	<0.35	<0.0007	<0.0007	--	<0.0007	<0.0014	<0.0014	<0.007	**0.074**	<0.0007	<0.0014	<0.0007
GB-132	GB-132-25.0	25	11/14/2017	<0.00071	<0.0014	<0.35	<0.00071	<0.00071	--	<0.00071	<0.0014	<0.0014	<0.0071	<0.0071	<0.00071	<0.0014	<0.00071
GB-132A	GB-132A-5.5	5.5	2/20/2018	<0.00089	<0.0018	<0.44	<0.00089	<0.00089	--	<0.00089	<0.0018	<0.0018	<0.0089	**0.09**	<0.00089	<0.0018	<0.00089
GB-133	GB-133-2.0	2	11/17/2017	<0.0007	<0.0014	<0.35	<0.0007	<0.0007	--	<0.0007	<0.0014	<0.0014	<0.007	<0.007	<0.0007	<0.0014	<0.0007
GB-133	GB-133-5.0	5	11/17/2017	<0.00067	<0.0013	<0.33	<0.00067	<0.00067	--	<0.00067	<0.0013	<0.0013	<0.0067	<0.0067	<0.00067	<0.0013	<0.00067
GB-133	GB-133-10.0	10	11/20/2017	<0.00072	<0.0014	<0.36	<0.00072	<0.00072	--	<0.00072	<0.0014	<0.0014	<0.0072	<0.0072	<0.00072	<0.0014	<0.00072
GB-134	GB-134-2.0	2	11/15/2017	<0.05	<0.1	<25	<0.05	**0.63**	--	<0.05	**0.16**	<0.1	<0.5	**33**	**0.067**	<0.1	**0.58**
GB-134	GB-134-5.0	5	11/20/2017	<0.047	<0.094	<23	<0.047	**0.67**	--	<0.047	<0.094	<0.094	<0.47	**37**	<0.047	<0.094	**0.31**
GB-134	GB-134-10.0	10	11/21/2017	<0.00077	<0.0015	<0.38	<0.00077	<0.00077	--	<0.00077	<0.0015	<0.0015	<0.0077	**8**	<0.00077	<0.0015	<0.00077
GB-134	GB-134-15.5	15.5	11/21/2017	<0.00071	<0.0014	<0.35	<0.00071	<0.00071	--	<0.00071	<0.0014	<0.0014	<0.0071	<0.0071	<0.00071	<0.0014	<0.00071
GB-134A	GB-134A-5.0	5	2/20/2018	<0.00096	<0.0019	<0.48	<0.00096	**0.043**	--	<0.00096	**0.0033**	<0.0019	<0.0096	**28**	<0.00096	<0.0019	**0.015**
GB-135	GB-135-2.0	2	11/17/2017	<0.00099	<0.002	<0.49	<0.00099	<0.00099	--	<0.00099	<0.002	<0.002	<0.0099	<0.0099	<0.00099	<0.002	<0.00099
GB-135	GB-135-5.5	5.5	11/17/2017	<0.00089	<0.0018	<0.44	<0.00089	<0.00089	--	<0.00089	<0.0018	<0.0018	<0.0089	<0.0089	<0.00089	<0.0018	<0.00089
GB-135	GB-135-10.5	10.5	11/20/2017	<0.00096	<0.0019	<0.48	<0.00096	<0.00096	--	<0.00096	<0.0019	<0.0019	<0.0096	**4**	<0.00096	<0.0019	<0.00096
GB-135	GB-135-14.5	14.5	11/20/2017	<0.00076	<0.0015	<0.38	<0.00076	<0.00076	--	<0.00076	<0.0015	<0.0015	<0.0076	**0.02**	<0.00076	<0.0015	<0.00076
GB-135	GB-135-19.0	19	11/20/2017	<0.0007	<0.0014	<0.35	<0.0007	<0.0007	--	<0.0007	<0.0014	<0.0014	<0.007	<0.007	<0.0007	<0.0014	<0.0007
GB-136	GB-136-2.0	2	11/13/2017	<0.00076	<0.0015	<0.38	<0.00076	<0.00076	--	<0.00076	<0.0015	<0.0015	<0.0076	**0.021**	<0.00076	<0.0015	<0.00076
GB-136	GB-136-5.0	5	11/13/2017	<0.00085	<0.0017	<0.42	<0.00085	<0.00085	--	<0.00085	<0.0017	<0.0017	<0.0085	<0.0085	<0.00085	<0.0017	<0.00085
GB-136	GB-136-10.0	10	11/13/2017	<0.00082	<0.0016	<0.41	<0.00082	<0.00082	--	<0.00082	<0.0016	<0.0016	<0.0082	<0.0082	<0.00082	<0.0016	<0.00082
GB-137	GB-137-2.0	2	11/15/2017	<0.00082	<0.0016	<0.41	<0.00082	<0.00082	--	<0.00082	<0.0016	<0.0016	<0.0082	<0.0082	<0.00082	<0.0016	<0.00082
GB-137	GB-137-5.0	5	12/7/2017	<0.0008	<0.0016	<0.4	<0.0008	<0.0008	--	<0.0008	<0.0016	<0.0016	<0.008	<0.008	<0.0008	<0.0016	<0.0008
GB-137	GB-137-9.0	9	12/7/2017	<0.00085	<0.0017	<0.42	<0.00085	<0.00085	--	<0.00085	<0.0017	<0.0017	<0.0085	<0.0085	<0.00085	<0.0017	<0.00085
GB-138	GB-138-2.0	2	11/9/2017	<0.00071	<0.0014	<0.35	<0.00071	<0.00071	--	<0.00071	<0.0014	<0.0014	<0.0071	<0.0071	<0.00071	<0.0014	<0.00071
GB-138A	GB-138A-5.0	5	1/2/2018	<0.00074	<0.0015	<0.37	<0.00074	<0.00074	--	<0.00074	<0.0015	<0.0015	<0.0074	<0.0074	<0.00074	<0.0015	<0.00074
GB-139	GB-139-3.0	3	11/15/2017	<0.00082	<0.0016	<0.41	<0.00082	**0.0011**	--	<0.00082	<0.0016	<0.0016	<0.0082	<0.0082	<0.00082	<0.0016	**0.00098**
GB-139	GB-139-5.0	5	11/15/2017	<0.00086	<0.0017	<0.43	<0.00086	<0.00086	--	<0.00086	<0.0017	<0.0017	<0.0086	<0.0086	<0.00086	<0.0017	<0.00086
GB-139	GB-139-10.0	10	11/16/2017	<0.0007	<0.0014	<0.35	<0.0007	<0.0007	--	<0.0007	<0.0014	<0.0014	<0.007	<0.007	<0.0007	<0.0014	<0.0007
GB-140	GB-140-2.0	2	11/9/2017	<0.00083	<0.0017	<0.42	<0.00083	<0.00083	--	<0.00083	<0.0017	<0.0017	<0.0083	<0.0083	<0.00083	<0.0017	<0.00083
GB-140	GB-140-4.75	4.75	11/9/2017	<0.00069	<0.0014	<0.34	<0.00069	<0.00069	--	<0.00069	<0.0014	<0.0014	<0.0069	<0.0069	<0.00069	<0.0014	<0.00069
GB-140	GB-140-10.0	10	12/6/2017	<0.00066	<0.0013	<0.33	<0.00066	<0.00066	--	<0.00066	<0.0013	<0.0013	<0.0066	<0.0066	<0.00066	<0.0013	<0.00066
GB-141	GB-141-2.0	2	11/17/2017	<0.00098	<0.002	<0.49	<0.00098	<0.00098	--	<0.00098	<0.002	<0.002	<0.0098	<0.0098	<0.00098	<0.002	<0.00098
GB-141	GB-141-5.0	5	11/21/2017	<0.039	<0.078	<19	<0.039	**0.039**	--	<0.039	**0.09**	<0.078	<0.39	**8.2**	<0.039	<0.078	**0.047**
GB-141	GB-141-7.5	7.5	12/7/2017	<2	<3.9	<990	<2	<2	--	<2	<3.9	<3.9	<20	**200**	<2	<3.9	<2
GB-142	GB-142-2.0	2	11/8/2017	<0.00086	<0.0017	<0.43	<0.00086	<0.00086	--	<0.00086	<0.0017	<0.0017	<0.0086	<0.0086	<0.00086	<0.0017	<0.00086
GB-142	GB-142-5.0	5	11/8/2017	<0.0009	<0.0018	<0.45	<0.0009	<0.0009	--	<0.0009	<0.0018	<0.0018	<0.009	**0.0096**	<0.0009	<0.0018	<0.0009
GB-142	GB-142-10.0	10	11/8/2017	<0.46	<0.92	<230	<0.46	**13**	--	<0.46	**5.2**	<0.92	<4.6	**4100**	<0.46	<0.92	**3.2**
GB-142	GB-142-15.0	15	11/8/2017	<0.37	<0.73	<180	<0.37	**0.94**	--	<0.37	**13**	<0.73	<3.7	**910**	<0.37	<0.73	**2.5**
GB-142	GB-142-20.0	20	11/8/2017	<0.4	<0.81	<200	<0.4	<0.4	--	<0.4	**9.5**	<0.81	<4	**75**	<0.4	<0.81	**1.3**
GB-142	GB-142-23.0	23	11/8/2017	<0.07	<0.14	<35	<0.07	<0.07	--	<0.07	**0.7**	<0.14	<0.7	**4.9**	<0.07	<0.14	**0.19**
GB-143	GB-143-2.0	2	11/9/2017	<0.00079	<0.0016	<0.4	<0.00079	<0.00079	--	<0.00079	<0.0016	<0.0016	<0.0079	<0.0079	<0.00079	<0.0016	<0.00079
GB-143	GB-143-5.0	5	11/9/2017	<0.00082	<0.0016	<0.41	<0.00082	<0.00082	--	<0.00082	<0.0016	<0.0016	<0.0082	**0.019**	<0.00082	<0.0016	<0.00082
GB-143	GB-143-10.0	10	11/9/2017	<0.45	<0.89	<220	<0.45	**15**	--	<0.45	**2**	<0.89	<4.5	**940**	<0.45	<0.89	**1.8**
GB-143	GB-143-10.5	10.5	11/9/2017	<6.7	<13	<3400	<6.7	**24**	--	<6.7	<13	<13	<67	**35000**	<6.7	<13	<6.7
GB-143	GB-143-13.0	13	11/9/2017	<0.00082	<0.0016	<0.41	<0.00082	<0.00082	--	<0.00082	<0.0016	<0.0016	<0.0082	**0.087**	<0.00082	<0.0016	<0.00082
GB-144	GB-144-2.0	2	11/10/2017	<0.00079	<0.0016	<0.4	<0.00079	<0.00079	--	<0.00079	<0.0016	<0.0016	<0.0079	<1	<0.00079	<0.0016	<0.00079

TABLE A-1
ANALYTICAL DATA: VOLATILE ORGANIC COMPOUNDS IN SOIL
TANK FARM AREA, POTRERO POWER PLANT
SAN FRANCISCO, CALIFORNIA

Location ID	Sample ID	Bottom Depth (feet bgs)	Sample Date	sec-Butylbenzene	Styrene	t-Amyl Alcohol	Tert-Amyl Methyl Ether (TAME)	tert-Butyl alcohol	tert-Butylbenzene	Tetrachloro-ethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichloro-fluoromethane (Freon 11)	Vinyl Acetate
GB-127	GB-127-2.0	2	11/13/2017	<0.00084	<0.00084	<0.042	<0.00084	<0.017	<0.00084	<0.00084	<0.00084	<0.00084	<0.0017	<0.0017	<0.0084	<0.0084
GB-127	GB-127-6.0	6	12/7/2017	<0.0008	<0.0008	<0.04	<0.0008	<0.016	<0.0008	<0.0008	<0.0008	<0.0008	<0.0016	<0.0016	<0.008	<0.008
GB-128	GB-128-2.0	2	11/13/2017	<0.0007	<0.0007	<0.035	<0.0007	<0.014	<0.0007	<0.0007	<0.0007	<0.0007	<0.0014	<0.0014	<0.007	<0.007
GB-128	GB-128-5.0	5	12/6/2017	<0.00075	<0.00075	<0.037	<0.00075	<0.015	<0.00075	<0.00075	<0.00075	<0.00075	<0.0015	<0.0015	<0.0075	<0.0075
GB-128	GB-128-10.0	10	12/7/2017	<0.00087	**0.0014**	<0.043	<0.00087	<0.017	<0.00087	<0.00087	**0.048**	<0.00087	<0.0017	<0.0017	<0.0087	<0.0087
GB-129	GB-129-2.0	2	11/8/2017	<0.00084	<0.00084	<0.042	<0.00084	<0.017	<0.00084	<0.00084	<0.00084	<0.00084	<0.0017	<0.0017	<0.0084	<0.0084
GB-129	GB-129-5.0	5	11/20/2017	<0.00094	<0.00094	<0.047	<0.00094	<0.019	<0.00094	<0.00094	<0.00094	<0.00094	<0.0019	<0.0019	<0.0094	<0.0094
GB-129	GB-129-9.25	9.25	11/20/2017	<0.0013	<0.0013	<0.063	<0.0013	<0.025	<0.0013	<0.0013	<0.0013	<0.0013	<0.0025	<0.0025	<0.013	<0.013
GB-129	GB-129-18.75	18.75	11/20/2017	<0.00067	<0.00067	<0.033	<0.00067	<0.013	<0.00067	<0.00067	<0.00067	<0.00067	<0.0013	<0.0013	<0.0067	<0.0067
GB-129	GB-129-22.5	22.5	11/20/2017	<0.00074	<0.00074	<0.037	<0.00074	<0.015	<0.00074	<0.00074	<0.00074	<0.00074	<0.0015	<0.0015	<0.0074	<0.0074
GB-130	GB-130-2.0	2	11/14/2017	<0.0009	<0.0009	<0.045	<0.0009	<0.018	<0.0009	<0.0009	<0.0009	<0.0009	<0.0018	<0.0018	<0.009	<0.009
GB-130	GB-130-5.0	5	11/15/2017	<0.042	<0.042	<2.1	<0.042	<0.84	<0.042	<0.042	<0.042	<0.042	<0.084	<0.084	<0.42	<0.42
GB-130	GB-130-10.0	10	11/15/2017	<0.00078	<0.00078	<0.039	<0.00078	<0.016	<0.00078	<0.00078	<0.00078	<0.00078	<0.0016	<0.0016	<0.0078	<0.0078
GB-130	GB-130-15.0	15	11/15/2017	<0.00078	<0.00078	<0.039	<0.00078	<0.016	<0.00078	<0.00078	<0.00078	<0.00078	<0.0016	<0.0016	<0.0078	<0.0078
GB-130	GB-130-19.0	19	11/15/2017	<0.00082	<0.00082	<0.041	<0.00082	<0.016	<0.00082	<0.00082	<0.00082	<0.00082	<0.0016	<0.0016	<0.0082	<0.0082
GB-130	GB-130-25.75	25.75	11/15/2017	<4	<4	<200	<4	<80	<4	<4	**74**	<4	<8	<8	<40	<40
GB-131	GB-131-2.0	2	11/13/2017	<0.00088	<0.00088	<0.044	<0.00088	<0.018	<0.00088	<0.00088	<0.00088	<0.00088	<0.0018	<0.0018	<0.0088	<0.0088
GB-131	GB-131-6.5	6.5	12/4/2017	<0.00076	<0.00076	<0.038	<0.00076	<0.015	<0.00076	<0.00076	**0.00092**	<0.00076	<0.0015	<0.0015	<0.0076	<0.0076
GB-131	GB-131-9.0	9	12/4/2017	<0.0011	<0.0011	<0.054	<0.0011	<0.021	<0.0011	<0.0011	**0.0017**	<0.0011	<0.0021	<0.0021	<0.011	<0.011
GB-131	GB-131-12.5	12.5	12/4/2017	<0.042	<0.042	<2.1	<0.042	<0.84	<0.042	<0.042	<0.042	<0.042	<0.084	<0.084	<0.42	<0.42
GB-131	GB-131-16.5	16.5	12/4/2017	<0.056	**0.79**	<2.8	<0.056	<1.1	<0.056	<0.056	**0.38**	<0.056	<0.11	<0.11	<0.56	<0.56
GB-131	GB-131-28.0	28	12/4/2017	<0.001	<0.001	<0.05	<0.001	<0.02	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.01	<0.01
GB-131A	GB-131A-5.5	5.5	2/20/2018	<0.051	<0.051	<2.6	<0.051	<1	<0.051	<0.051	<0.051	<0.051	<0.1	<0.1	<0.51	<0.51
GB-132	GB-132-2.0	2	11/13/2017	<0.00094	<0.00094	<0.047	<0.00094	<0.019	<0.00094	<0.00094	**0.0022**	<0.00094	<0.0019	<0.0019	<0.0094	<0.0094
GB-132	GB-132-5.0	5	11/13/2017	<0.0009	**0.0016**	<0.045	<0.0009	<0.018	<0.0009	<0.0009	**0.0016**	<0.0009	<0.0018	<0.0018	<0.009	<0.009
GB-132	GB-132-10.0	10	11/13/2017	<0.00077	<0.00077	<0.038	<0.00077	<0.015	<0.00077	<0.00077	**0.0012**	<0.00077	<0.0015	<0.0015	<0.0077	<0.0077
GB-132	GB-132-15.0	15	11/13/2017	<0.00072	<0.00072	<0.036	<0.00072	<0.014	<0.00072	<0.00072	<0.00072	<0.00072	<0.0014	<0.0014	<0.0072	<0.0072
GB-132	GB-132-20.0	20	11/13/2017	<0.0007	<0.0007	<0.035	<0.0007	<0.014	<0.0007	<0.0007	**0.00075**	<0.0007	<0.0014	<0.0014	<0.007	<0.007
GB-132	GB-132-25.0	25	11/14/2017	<0.00071	<0.00071	<0.035	<0.00071	<0.014	<0.00071	<0.00071	<0.00071	<0.00071	<0.0014	<0.0014	<0.0071	<0.0071
GB-132A	GB-132A-5.5	5.5	2/20/2018	<0.00089	<0.00089	<0.044	<0.00089	<0.018	<0.00089	<0.00089	<0.00089	<0.00089	<0.0018	<0.0018	<0.0089	<0.0089
GB-133	GB-133-2.0	2	11/17/2017	<0.0007	<0.0007	<0.035	<0.0007	<0.014	<0.0007	<0.0007	<0.0007	<0.0007	<0.0014	<0.0014	<0.007	<0.007
GB-133	GB-133-5.0	5	11/17/2017	<0.00067	<0.00067	<0.033	<0.00067	<0.013	<0.00067	<0.00067	<0.00067	<0.00067	<0.0013	<0.0013	<0.0067	<0.0067
GB-133	GB-133-10.0	10	11/20/2017	<0.00072	<0.00072	<0.036	<0.00072	<0.014	<0.00072	<0.00072	<0.00072	<0.00072	<0.0014	<0.0014	<0.0072	<0.0072
GB-134	GB-134-2.0	2	11/15/2017	<0.05	<0.05	<2.5	<0.05	<1	<0.05	<0.05	**0.1**	<0.05	<0.1	<0.1	<0.5	<0.5
GB-134	GB-134-5.0	5	11/20/2017	<0.047	**0.056**	<2.3	<0.047	<0.94	<0.047	<0.047	**0.061**	<0.047	<0.094	<0.094	<0.47	<0.47
GB-134	GB-134-10.0	10	11/21/2017	<0.00077	<0.00077	<0.038	<0.00077	<0.015	<0.00077	<0.00077	<0.00077	<0.00077	<0.0015	<0.0015	<0.0077	<0.0077
GB-134	GB-134-15.5	15.5	11/21/2017	<0.00071	<0.00071	<0.035	<0.00071	<0.014	<0.00071	<0.00071	<0.00071	<0.00071	<0.0014	<0.0014	<0.0071	<0.0071
GB-134A	GB-134A-5.0	5	2/20/2018	<0.00096	<0.00096	<0.048	<0.00096	<0.019	<0.00096	<0.00096	**0.0043**	<0.00096	<0.0019	<0.0019	<0.0096	<0.0096
GB-135	GB-135-2.0	2	11/17/2017	<0.00099	<0.00099	<0.049	<0.00099	<0.02	<0.00099	<0.00099	<0.00099	<0.00099	<0.002	<0.002	<0.0099	<0.0099
GB-135	GB-135-5.5	5.5	11/17/2017	<0.00089	<0.00089	<0.044	<0.00089	<0.018	<0.00089	<0.00089	<0.00089	<0.00089	<0.0018	<0.0018	<0.0089	<0.0089
GB-135	GB-135-10.5	10.5	11/20/2017	<0.00096	<0.00096	<0.048	<0.00096	<0.019	<0.00096	<0.00096	<0.00096	<0.00096	<0.0019	<0.0019	<0.0096	<0.0096
GB-135	GB-135-14.5	14.5	11/20/2017	<0.00076	<0.00076	<0.038	<0.00076	<0.015	<0.00076	<0.00076	<0.00076	<0.00076	<0.0015	<0.0015	<0.0076	<0.0076
GB-135	GB-135-19.0	19	11/20/2017	<0.0007	<0.0007	<0.035	<0.0007	<0.014	<0.0007	<0.0007	<0.0007	<0.0007	<0.0014	<0.0014	<0.007	<0.007
GB-136	GB-136-2.0	2	11/13/2017	<0.00076	<0.00076	<0.038	<0.00076	<0.015	<0.00076	<0.00076	<0.00076	<0.00076	<0.0015	<0.0015	<0.0076	<0.0076
GB-136	GB-136-5.0	5	11/13/2017	<0.00085	<0.00085	--	<0.00085	<0.017	<0.00085	<0.00085	**0.00098**	<0.00085	<0.0017	<0.0017	<0.0085	<0.0085
GB-136	GB-136-10.0	10	11/13/2017	<0.00082	<0.00082	<0.041	<0.00082	<0.016	<0.00082	<0.00082	<0.00082	<0.00082	<0.0016	<0.0016	<0.0082	<0.0082
GB-137	GB-137-2.0	2	11/15/2017	<0.00082	<0.00082	<0.041	<0.00082	<0.016	<0.00082	<0.00082	<0.00082	<0.00082	<0.0016	<0.0016	<0.0082	<0.0082
GB-137	GB-137-5.0	5	12/7/2017	<0.0008	<0.0008	<0.04	<0.0008	<0.016	<0.0008	<0.0008	<0.0008	<0.0008	<0.0016	<0.0016	<0.008	<0.008
GB-137	GB-137-9.0	9	12/7/2017	<0.00085	<0.00085	<0.042	<0.00085	<0.017	<0.00085	<0.00085	<0.00085	<0.00085	<0.0017	<0.0017	<0.0085	<0.0085
GB-138	GB-138-2.0	2	11/9/2017	<0.00071	<0.00071	<0.035	<0.00071	<0.014	<0.00071	<0.00071	<0.00071	<0.00071	<0.0014	<0.0014	<0.0071	<0.0071
GB-138A	GB-138A-5.0	5	1/2/2018	<0.00074	<0.00074	<0.037	<0.00074	<0.015	<0.00074	<0.00074	<0.00074	<0.00074	<0.0015	<0.0015	<0.0074	<0.0074
GB-139	GB-139-3.0	3	11/15/2017	<0.00082	<0.00082	<0.041	<0.00082	<0.016	<0.00082	<0.00082	**0.002**	<0.00082	<0.0016	<0.0016	<0.0082	<0.0082
GB-139	GB-139-5.0	5	11/15/2017	<0.00086	<0.00086	<0.043	<0.00086	<0.017	<0.00086	<0.00086	<0.00086	<0.00086	<0.0017	<0.0017	<0.0086	<0.0086
GB-139	GB-139-10.0	10	11/16/2017	<0.0007	<0.0007	<0.035	<0.0007	<0.014	<0.0007	<0.0007	<0.0007	<0.0007	<0.0014	<0.0014	<0.007	<0.007
GB-140	GB-140-2.0	2	11/9/2017	<0.00083	<0.00083	<0.042	<0.00083	<0.017	<0.00083	<0.00083	<0.00083	<0.00083	<0.0017	<0.0017	<0.0083	<0.0083
GB-140	GB-140-4.75	4.75	11/9/2017	<0.00069	<0.00069	<0.034	<0.00069	<0.014	<0.00069	<0.00069	<0.00069	<0.00069	<0.0014	<0.0014	<0.0069	<0.0069
GB-140	GB-140-10.0	10	12/6/2017	<0.00066	<0.00066	<0.033	<0.00066	<0.013	<0.00066	<0.00066	<0.00066	<0.00066	<0.0013	<0.0013	<0.0066	<0.0066
GB-141	GB-141-2.0	2	11/17/2017	<0.00098	<0.00098	<0.049	<0.00098	<0.02	<0.00098	<0.00098	<0.00098	<0.00098	<0.002	<0.002	<0.0098	<0.0098
GB-141	GB-141-5.0	5	11/21/2017	<0.039	**0.047**	<1.9	<0.039	<0.78	<0.039	<0.039	**0.068**	<0.039	<0.078	<0.078	<0.39	<0.39
GB-141	GB-141-7.5	7.5	12/7/2017	<2	<2	<99	<2	<39	<2	<2	<2	<2	<3.9	<3.9	<20	<20
GB-142	GB-142-2.0	2	11/8/2017	<0.00086	<0.00086	<0.043	<0.00086	<0.017	<0.00086	<0.00086	<0.00086	<0.00086	<0.0017	<0.0017	<0.0086	<0.0086
GB-142	GB-142-5.0	5	11/8/2017	<0.0009	<0.0009	<0.045	<0.0009	<0.018	<0.0009	<0.0009	<0.0009	<0.0009	<0.0018	<0.0018	<0.009	<0.009
GB-142	GB-142-10.0	10	11/8/2017	<0.46	**1.6**	<23	<0.46	<9.2	<0.46	<0.46	**2.2**	<0.46	<0.92	<0.92	<4.6	<4.6
GB-142	GB-142-15.0	15	11/8/2017	<0.37	<0.37	<18	<0.37	<7.3	<0.37	<0.37	<0.37	<0.37	<0.73	<0.73	<3.7	<3.7
GB-142	GB-142-20.0	20	11/8/2017	<0.4	<0.4	<20	<0.4	<8.1	<0.4	<0.4	<0.4	<0.4	<0.81	<0.81	<4	<4
GB-142	GB-142-23.0	23	11/8/2017	<0.07	<0.07	<3.5	<0.07	<1.4	<0.07	<0.07	**2**	<0.07	<0.14	<0.14	<0.7	<0.7
GB-143	GB-143-2.0	2	11/9/2017	<0.00079	<0.00079	<0.04	<0.00079	<0.016	<0.00079	<0.00079	<0.00079	<0.00079	<0.0016	<0.0016	<0.0079	<0.0079
GB-143	GB-143-5.0	5	11/9/2017	<0.00082	<0.00082	<0.041	<0.00082	<0.016	<0.00082	<0.00082	<0.00082	<0.00082	<0.0016	<0.0016	<0.0082	<0.0082
GB-143	GB-143-10.0	10	11/9/2017	<0.45	<0.45	<22	<0.45	<8.9	<0.45	<0.45	**2.8**	<0.45	<0.89	<0.89	<4.5	<4.5
GB-143	GB-143-10.5	10.5	11/9/2017	<6.7	<6.7	<340	<6.7	<130	<6.7	<6.7	**18**	<6.7	<13	<13	<67	<67
GB-143	GB-143-13.0	13	11/9/2017	<0.00082	<0.00082	<0.041	<0.00082	<0.016	<0.00082	<0.00082	<0.00082	<0.00082	<0.0016	<0.0016	<0.0082	<0.0082
GB-144	GB-144-2.0	2	11/10/2017	<0.00079	<0.00079	<0.04	<0.00079	<0.016	<0.00079	<0.00079	<0.00079	<0.00079	<0.0016	<0.0016	<0.0079	<0.0079

TABLE A-1
ANALYTICAL DATA: VOLATILE ORGANIC COMPOUNDS IN SOIL
TANK FARM AREA, POTRERO POWER PLANT
SAN FRANCISCO, CALIFORNIA

Location ID	Sample ID	Bottom Depth (feet bgs)	Sample Date	Vinyl Chloride	Xylenes [a]
GB-127	GB-127-2.0	2	11/13/2017	<0.00084	<0.0017
GB-127	GB-127-6.0	6	12/7/2017	<0.0008	<0.0016
GB-128	GB-128-2.0	2	11/13/2017	<0.0007	<0.0014
GB-128	GB-128-5.0	5	12/6/2017	<0.00075	**0.0016**
GB-128	GB-128-10.0	10	12/7/2017	<0.00087	**0.0105**
GB-129	GB-129-2.0	2	11/8/2017	<0.00084	<0.0017
GB-129	GB-129-5.0	5	11/20/2017	<0.00094	<0.0019
GB-129	GB-129-9.25	9.25	11/20/2017	<0.0013	<0.0025
GB-129	GB-129-18.75	18.75	11/20/2017	<0.00067	<0.0013
GB-129	GB-129-22.5	22.5	11/20/2017	<0.00074	<0.0015
GB-130	GB-130-2.0	2	11/14/2017	<0.0009	<0.0018
GB-130	GB-130-5.0	5	11/15/2017	<0.042	<0.084
GB-130	GB-130-10.0	10	11/15/2017	<0.00078	<0.0016
GB-130	GB-130-15.0	15	11/15/2017	<0.00078	<0.0016
GB-130	GB-130-19.0	19	11/15/2017	<0.00082	<0.0016
GB-130	GB-130-25.75	25.75	11/15/2017	<4	**178**
GB-131	GB-131-2.0	2	11/13/2017	<0.00088	<0.0018
GB-131	GB-131-6.5	6.5	12/4/2017	<0.00076	<0.0015
GB-131	GB-131-9.0	9	12/4/2017	<0.0011	**0.0029**
GB-131	GB-131-12.5	12.5	12/4/2017	<0.042	<0.084
GB-131	GB-131-16.5	16.5	12/4/2017	<0.056	**1.29**
GB-131	GB-131-28.0	28	12/4/2017	<0.001	<0.002
GB-131A	GB-131A-5.5	5.5	2/20/2018	<0.051	<0.1
GB-132	GB-132-2.0	2	11/13/2017	<0.00094	**0.002**
GB-132	GB-132-5.0	5	11/13/2017	<0.0009	**0.0022**
GB-132	GB-132-10.0	10	11/13/2017	<0.00077	<0.0015
GB-132	GB-132-15.0	15	11/13/2017	<0.00072	<0.0014
GB-132	GB-132-20.0	20	11/13/2017	<0.0007	<0.0014
GB-132	GB-132-25.0	25	11/14/2017	<0.00071	<0.0014
GB-132A	GB-132A-5.5	5.5	2/20/2018	<0.00089	<0.0018
GB-133	GB-133-2.0	2	11/17/2017	<0.0007	<0.0014
GB-133	GB-133-5.0	5	11/17/2017	<0.00067	<0.0013
GB-133	GB-133-10.0	10	11/20/2017	<0.00072	<0.0014
GB-134	GB-134-2.0	2	11/15/2017	<0.05	**0.74**
GB-134	GB-134-5.0	5	11/20/2017	<0.047	**0.31**
GB-134	GB-134-10.0	10	11/21/2017	<0.00077	<0.0015
GB-134	GB-134-15.5	15.5	11/21/2017	<0.00071	<0.0014
GB-134A	GB-134A-5.0	5	2/20/2018	<0.00096	**0.0183**
GB-135	GB-135-2.0	2	11/17/2017	<0.00099	<0.002
GB-135	GB-135-5.5	5.5	11/17/2017	<0.00089	<0.0018
GB-135	GB-135-10.5	10.5	11/20/2017	<0.00096	<0.0019
GB-135	GB-135-14.5	14.5	11/20/2017	<0.00076	<0.0015
GB-135	GB-135-19.0	19	11/20/2017	<0.0007	<0.0014
GB-136	GB-136-2.0	2	11/13/2017	<0.00076	<0.0015
GB-136	GB-136-5.0	5	11/13/2017	<0.00085	<0.0017
GB-136	GB-136-10.0	10	11/13/2017	<0.00082	<0.0016
GB-137	GB-137-2.0	2	11/15/2017	<0.00082	<0.0016
GB-137	GB-137-5.0	5	12/7/2017	<0.0008	<0.0016
GB-137	GB-137-9.0	9	12/7/2017	<0.00085	<0.0017
GB-138	GB-138-2.0	2	11/9/2017	<0.00071	<0.0014
GB-138A	GB-138A-5.0	5	1/2/2018	<0.00074	<0.0015
GB-139	GB-139-3.0	3	11/15/2017	<0.00082	**0.00098**
GB-139	GB-139-5.0	5	11/15/2017	<0.00086	<0.0017
GB-139	GB-139-10.0	10	11/16/2017	<0.0007	<0.0014
GB-140	GB-140-2.0	2	11/9/2017	<0.00083	<0.0017
GB-140	GB-140-4.75	4.75	11/9/2017	<0.00069	<0.0014
GB-140	GB-140-10.0	10	12/6/2017	<0.00066	<0.0013
GB-141	GB-141-2.0	2	11/17/2017	<0.00098	<0.002
GB-141	GB-141-5.0	5	11/21/2017	<0.039	**0.137**
GB-141	GB-141-7.5	7.5	12/7/2017	<2	<3.9
GB-142	GB-142-2.0	2	11/8/2017	<0.00086	<0.0017
GB-142	GB-142-5.0	5	11/8/2017	<0.0009	<0.0018
GB-142	GB-142-10.0	10	11/8/2017	<0.46	**8.4**
GB-142	GB-142-15.0	15	11/8/2017	<0.37	**15.5**
GB-142	GB-142-20.0	20	11/8/2017	<0.4	**10.8**
GB-142	GB-142-23.0	23	11/8/2017	<0.07	**0.89**
GB-143	GB-143-2.0	2	11/9/2017	<0.00079	<0.0016
GB-143	GB-143-5.0	5	11/9/2017	<0.00082	<0.0016
GB-143	GB-143-10.0	10	11/9/2017	<0.45	**3.8**
GB-143	GB-143-10.5	10.5	11/9/2017	<6.7	<13
GB-143	GB-143-13.0	13	11/9/2017	<0.00082	<0.0016
GB-144	GB-144-2.0	2	11/10/2017	<0.00079	<0.0016

TABLE A-1
ANALYTICAL DATA: VOLATILE ORGANIC COMPOUNDS IN SOIL
TANK FARM AREA, POTRERO POWER PLANT
SAN FRANCISCO, CALIFORNIA

Location ID	Sample ID	Bottom Depth (feet bgs)	Sample Date	Sample Type	1,1,1,2-Tetrachloro-ethane	1,1,1-Trichloro-ethane	1,1,2,2-Tetrachloro-ethane	1,1,2-Trichloro-ethane	1,1,2-Trichloro-trifluoroethane (Freon 113)	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropane	1,1-Dichloropropene	1,2,3-Trichloro-benzene	1,2,3-Trichloro-propane	1,2,4-Trichloro-benzene	1,2,4-Trimethyl-benzene
GB-144	GB-144-5.5	5.5	11/10/2017	P	<0.043	<0.043	<0.087	<0.043	<0.43	<0.043	<0.043	--	<0.087	<0.087	<0.087	<0.087	**0.092**
GB-144	GB-144-10.0	10	11/10/2017	P	<0.00076	<0.00076	<0.0015	<0.00076	<0.0076	<0.00076	<0.00076	--	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
GB-145	GB-145-2.0	2	11/14/2017	P	<0.00086	<0.00086	<0.0017	<0.00086	<0.0086	<0.00086	<0.00086	--	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017
GB-145	GB-145-5.0	5	11/14/2017	P	<0.001	<0.001	<0.002	<0.001	<0.01	<0.001	<0.001	--	<0.002	<0.002	<0.002	<0.002	<0.002
GB-145	GB-145-7.0	7	11/14/2017	P	<0.001	<0.001	<0.002	<0.001	<0.01	<0.001	<0.001	--	<0.002	<0.002	<0.002	<0.002	<0.002
GB-145	GB-145-14.0	14	11/14/2017	P	<0.034	<0.034	<0.068	<0.034	<0.34	<0.034	<0.034	--	<0.068	<0.068	<0.068	<0.068	<0.068
GB-146	GB-146-1.0	1	12/5/2017	P	<0.066	<0.066	<0.13	<0.066	<0.66	<0.066	<0.066	--	<0.13	<0.13	<0.13	<0.13	<0.13
GB-146	GB-146-4.0	4	12/5/2017	P	<4.4	<4.4	<8.9	<4.4	<44	<4.4	<4.4	--	<8.9	<8.9	<8.9	<8.9	**9.9**
GB-146A	GB-146A-7.5	7.5	1/5/2018	P	--	--	--	--	--	--	--	--	--	--	--	--	--
GB-147	GB-147-2.0	2	11/10/2017	P	<0.00098	<0.00098	<0.002	<0.00098	<0.0098	<0.00098	<0.00098	--	<0.002	<0.002	<0.002	<0.002	<0.002
GB-147	GB-147-5.0	5	11/10/2017	P	<0.043	<0.043	<0.086	<0.043	<0.43	<0.043	<0.043	--	<0.086	<0.086	<0.086	<0.086	<0.086
GB-147	GB-147-9.25	9.25	11/10/2017	P	<0.45	<0.45	<0.9	<0.45	<4.5	<0.45	<0.45	--	<0.9	<0.9	<0.9	<0.9	**18**
GB-147	GB-147-12.5	12.5	11/10/2017	P	<2.1	<2.1	<4.2	<2.1	<21	<2.1	<2.1	--	<4.2	<4.2	<4.2	<4.2	**6.8**
GB-147	GB-147-15.0	15	11/10/2017	P	<0.2	<0.2	<0.4	<0.2	<2	<0.2	<0.2	--	<0.4	<0.4	<0.4	<0.4	<0.4
GB-148	GB-148-2.0	2	11/7/2017	P	<0.00081	<0.00081	<0.0016	<0.00081	<0.0081	<0.00081	<0.00081	--	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016
GB-148	GB-148-5.0	5	11/7/2017	P	<0.00086	<0.00086	<0.0017	<0.00086	<0.0086	<0.00086	<0.00086	--	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017
GB-148	GB-148-7.5	7.5	11/7/2017	P	<1.1	<1.1	<2.2	<1.1	<11	<1.1	<1.1	--	<2.2	<2.2	<2.2	<2.2	**14**
GB-148	GB-148-10.0	10	11/7/2017	P	<0.00094	<0.00094	<0.0019	<0.00094	<0.0094	<0.00094	<0.00094	--	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019
GB-149	GB-149-2.0	2	11/14/2017	P	<0.00088	<0.00088	<0.0018	<0.00088	<0.0088	<0.00088	<0.00088	--	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018
GB-149	GB-149-5.0	5	11/21/2017	P	<0.00075	<0.00075	<0.0015	<0.00075	<0.0075	<0.00075	<0.00075	--	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
GB-149	GB-149-10.5	10.5	11/21/2017	P	<0.05	<0.05	<0.1	<0.05	<0.5	<0.05	<0.05	--	<0.1	<0.1	<0.1	<0.1	<0.1
GB-149	GB-149-14.5	14.5	11/21/2017	P	<0.00079	<0.00079	<0.0016	<0.00079	<0.0079	<0.00079	<0.00079	--	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016
GB-149A	GB-149A-5.5	5.5	2/22/2018	P	<0.00083	<0.00083	<0.0017	<0.00083	<0.0083	<0.00083	<0.00083	--	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017
GB-150	GB-150-2.0	2	11/9/2017	P	<0.00099	<0.00099	<0.002	<0.00099	<0.0099	<0.00099	<0.00099	--	<0.002	<0.002	<0.002	<0.002	<0.002
GB-150	GB-150-4.5	4.5	11/9/2017	P	<0.00097	<0.00097	<0.0019	<0.00097	<0.0097	<0.00097	<0.00097	--	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019
GB-150	GB-150-10.0	10	11/10/2017	P	<0.046	<0.046	<0.091	<0.046	<0.46	<0.046	<0.046	--	<0.091	<0.091	<0.091	<0.091	<0.091
GB-150A	GB-150A-5.5	5.5	2/22/2018	P	<0.00097	<0.00097	<0.0019	<0.00097	<0.0097	<0.00097	<0.00097	--	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019
GB-151	GB-151-2.0	2	11/8/2017	P	<0.00076	<0.00076	<0.0015	<0.00076	<0.0076	<0.00076	<0.00076	--	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
GB-151	GB-151-5.0	5	12/4/2017	P	<0.00087	<0.00087	<0.0017	<0.00087	<0.0087	<0.00087	<0.00087	--	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017
GB-151	GB-151-9.5	9.5	12/5/2017	P	<4.5	<4.5	<8.9	<4.5	<45	<4.5	<4.5	--	<8.9	<8.9	<8.9	<8.9	**15**
GB-151	GB-151-15.0	15	12/5/2017	P	<3.7	<3.7	<7.4	<3.7	<37	<3.7	<3.7	--	<7.4	<7.4	<7.4	<7.4	<7.4
GB-151	GB-151-19.0	19	12/5/2017	P	<4.1	<4.1	<8.1	<4.1	<41	<4.1	<4.1	--	<8.1	<8.1	<8.1	<8.1	<8.1
GB-151	GB-151-26.0	26	12/6/2017	P	<0.072	<0.072	<0.14	<0.072	<0.72	<0.072	<0.072	--	<0.14	<0.14	<0.14	<0.14	<0.14
GB-152	GB-152-2.0	2	11/9/2017	P	<0.00077	<0.00077	<0.0015	<0.00077	<0.0077	<0.00077	<0.00077	--	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
GB-152	GB-152-4.5	4.5	11/21/2017	P	<0.00073	<0.00073	<0.0015	<0.00073	<0.0073	<0.00073	<0.00073	--	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
GB-152	GB-152-10.5	10.5	11/21/2017	P	<0.00081	<0.00081	<0.0016	<0.00081	<0.0081	<0.00081	<0.00081	--	<0.0016	<0.0016	<0.0016	<0.0016	**0.0021**
GB-152	GB-152-13.5	13.5	11/21/2017	P	<13	<13	<26	<13	<130	<13	<13	--	<26	<26	<26	<26	<26
GB-152	GB-152-16.5	16.5	11/21/2017	P	<0.045	<0.045	<0.091	<0.045	<0.45	<0.045	<0.045	--	<0.091	<0.091	<0.091	<0.091	<0.091
GB-153	GB-153-5.0	5	11/21/2017	P	<0.00097	<0.00097	<0.0019	<0.00097	<0.0097	<0.00097	<0.00097	--	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019
GB-153	GB-153-1.5	1.5	12/5/2017	P	<0.00088	<0.00088	<0.0018	<0.00088	<0.0088	<0.00088	<0.00088	--	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018
GB-153	GB-153-9.0	9	12/5/2017	P	<0.16	<0.16	<0.32	<0.16	<1.6	<0.16	<0.16	--	<0.32	<0.32	<0.32	<0.32	<0.32
GB-153	GB-153-13.0	13	12/5/2017	P	<0.041	<0.041	<0.082	<0.041	<0.41	<0.041	<0.041	--	<0.082	<0.082	<0.082	<0.082	<0.082
GB-153	GB-153-18.0	18	12/5/2017	P	<53	<53	<110	<53	<530	<53	<53	--	<110	<110	<110	<110	<110
GB-153	GB-153-20.0	20	12/5/2017	P	<0.76	<0.76	<1.5	<0.76	<7.6	<0.76	<0.76	--	<1.5	<1.5	<1.5	<1.5	<1.5
GB-154	GB-154-2.0	2	11/16/2017	P	<0.00073	<0.00073	<0.0015	<0.00073	<0.0073	<0.00073	<0.00073	--	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
GB-154	GB-154-5.0	5	11/16/2017	P	<0.0008	<0.0008	<0.0016	<0.0008	<0.008	<0.0008	<0.0008	--	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016
GB-154	GB-154-9.5	9.5	12/4/2017	P	<0.00089	<0.00089	<0.0018	<0.00089	<0.0089	<0.00089	<0.00089	--	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018
GB-154	GB-154-19.0	19	12/6/2017	P	<0.094	<0.094	<0.19	<0.094	<0.94	<0.094	<0.094	--	<0.19	<0.19	<0.19	<0.19	<0.19
GB-154	GB-154-23.0	23	12/6/2017	P	<0.38	<0.38	<0.75	<0.38	<3.8	<0.38	<0.38	--	<0.75	<0.75	<0.75	<0.75	<0.75
GB-154A	GB-154A-9.5	9.5	1/5/2018	P	--	--	--	--	--	--	--	--	--	--	--	--	--
GB-155	GB-155-2.0	2	11/16/2017	P	<0.00082	<0.00082	<0.0016	<0.00082	<0.0082	<0.00082	<0.00082	--	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016
GB-155A	GB-155A-5.0	5	1/2/2018	P	<0.24	<0.24	<0.48	<0.24	<2.4	<0.24	<0.24	--	<0.48	<0.48	<0.48	<0.48	<0.48
GB-155A	GB-155A-9.0	9	1/4/2018	P	<2.8	<2.8	<5.6	<2.8	<28	<2.8	<2.8	--	<5.6	<5.6	<5.6	<5.6	<5.6
GB-155A	GB-155A-15.0	15	1/4/2018	P	--	--	--	--	--	--	--	--	--	--	--	--	--
GB-155B	GB-155B-5.5	5.5	2/23/2018	P	<0.00087	<0.00087	<0.0017	<0.00087	<0.0087	<0.00087	<0.00087	--	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017
GB-155C	GB-155C-3.0	3	2/23/2018	P	<0.00078	<0.00078	<0.0016	<0.00078	<0.0078	<0.00078	<0.00078	--	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016
GB-156	GB-156-2.0	2	11/16/2017	P	<0.00083	<0.00083	<0.0017	<0.00083	<0.0083	<0.00083	<0.00083	--	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017
GB-156A	GB-156A-5.0	5	1/2/2018	P	<0.00083	<0.00083	<0.0017	<0.00083	<0.0083	<0.00083	<0.00083	--	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017
GB-156B	GB-156B-5.5	5.5	2/22/2018	P	<0.00091	<0.00091	<0.0018	<0.00091	<0.0091	<0.00091	<0.00091	--	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018
GB-157	GB-157-10.0	10	1/8/2018	P	--	--	--	--	--	--	--	--	--	--	--	--	--
GB-158	GB-158-10.0	10	1/5/2018	P	--	--	--	--	--	--	--	--	--	--	--	--	--
GB-158	GB-158-15.0	15	1/5/2018	P	--	--	--	--	--	--	--	--	--	--	--	--	--
GB-159	GB-159-8.5	8.5	1/4/2018	P	--	--	--	--	--	--	--	--	--	--	--	--	--
GB-161	GB-161-9.25	9.25	1/5/2018	P	--	--	--	--	--	--	--	--	--	--	--	--	--
GB-161	GB-161-15.0	15	1/5/2018	P	--	--	--	--	--	--	--	--	--	--	--	--	--
GB-161	GB-161-17.5	17.5	1/5/2018	P	--	--	--	--	--	--	--	--	--	--	--	--	--
GB-161	GB-161-20.0	20	1/5/2018	P	--	--	--	--	--	--	--	--	--	--	--	--	--
GB-162	GB-162-9.5	9.5	1/4/2018	P	--	--	--	--	--	--	--	--	--	--	--	--	--
GB-162	GB-162-15.0	15	1/4/2018	P	--	--	--	--	--	--	--	--	--	--	--	--	--
GB-162	GB-162-19.5	19.5	1/4/2018	P	--	--	--	--	--	--	--	--	--	--	--	--	--
GB-163	GB-163-9.0	9	1/3/2018	P	--	--	--	--	--	--	--	--	--	--	--	--	--
GB-163	GB-163-14.0	14	1/3/2018	P	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE A-1
ANALYTICAL DATA: VOLATILE ORGANIC COMPOUNDS IN SOIL
TANK FARM AREA, POTRERO POWER PLANT
SAN FRANCISCO, CALIFORNIA

Location ID	Sample ID	Bottom Depth (feet bgs)	Sample Date	1,2-Dibromo-3-Chloropropane (DBCP)	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethyl-benzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,3-Dichloropropene	1,4-Dichlorobenzene	1-Methylethyl-benzene A
GB-144	GB-144-5.5	5.5	11/10/2017	<0.22	<0.043	<0.043	<0.043	<0.043	<0.087	<0.043	<0.043	--	<0.043	--
GB-144	GB-144-10.0	10	11/10/2017	<0.0038	<0.00076	<0.00076	<0.00076	<0.00076	<0.0015	<0.00076	<0.00076	--	<0.00076	--
GB-145	GB-145-2.0	2	11/14/2017	<0.0043	<0.00086	<0.00086	<0.00086	<0.00086	<0.0017	<0.00086	<0.00086	--	<0.00086	--
GB-145	GB-145-5.0	5	11/14/2017	<0.0051	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	--	<0.001	--
GB-145	GB-145-7.0	7	11/14/2017	<0.0051	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	--	<0.001	--
GB-145	GB-145-14.0	14	11/14/2017	<0.17	<0.034	<0.034	<0.034	<0.034	<0.068	<0.034	<0.034	--	<0.034	--
GB-146	GB-146-1.0	1	12/5/2017	<0.33	<0.066	<0.066	<0.066	<0.066	<0.13	<0.066	<0.066	--	<0.066	--
GB-146	GB-146-4.0	4	12/5/2017	<22	<4.4	<4.4	<4.4	<4.4	<8.9	<4.4	<4.4	--	<4.4	--
GB-146A	GB-146A-7.5	7.5	1/5/2018	--	--	--	--	--	--	--	--	--	--	--
GB-147	GB-147-2.0	2	11/10/2017	<0.0049	<0.00098	<0.00098	<0.00098	<0.00098	<0.002	<0.00098	<0.00098	--	<0.00098	--
GB-147	GB-147-5.0	5	11/10/2017	<0.21	<0.043	<0.043	<0.043	<0.043	<0.086	<0.043	<0.043	--	<0.043	--
GB-147	GB-147-9.25	9.25	11/10/2017	<2.3	<0.45	<0.45	<0.45	<0.45	**6.9**	<0.45	<0.45	--	<0.45	--
GB-147	GB-147-12.5	12.5	11/10/2017	<10	<2.1	<2.1	<2.1	<2.1	**4.8**	<2.1	<2.1	--	<2.1	--
GB-147	GB-147-15.0	15	11/10/2017	<1	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.2	--	<0.2	--
GB-148	GB-148-2.0	2	11/7/2017	<0.004	<0.00081	<0.00081	<0.00081	<0.00081	<0.0016	<0.00081	<0.00081	--	<0.00081	--
GB-148	GB-148-5.0	5	11/7/2017	<0.0043	<0.00086	<0.00086	<0.00086	<0.00086	<0.0017	<0.00086	<0.00086	--	<0.00086	--
GB-148	GB-148-7.5	7.5	11/7/2017	<5.4	<1.1	<1.1	<1.1	<1.1	**6**	<1.1	<1.1	--	<1.1	--
GB-148	GB-148-10.0	10	11/7/2017	<0.0047	<0.00094	<0.00094	<0.00094	<0.00094	<0.0019	<0.00094	<0.00094	--	<0.00094	--
GB-149	GB-149-2.0	2	11/14/2017	<0.0044	<0.00088	<0.00088	<0.00088	<0.00088	<0.0018	<0.00088	<0.00088	--	<0.00088	--
GB-149	GB-149-5.0	5	11/21/2017	<0.0037	<0.00075	<0.00075	<0.00075	<0.00075	<0.0015	<0.00075	<0.00075	--	<0.00075	--
GB-149	GB-149-10.5	10.5	11/21/2017	<0.25	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	--	<0.05	--
GB-149	GB-149-14.5	14.5	11/21/2017	<0.004	<0.00079	<0.00079	<0.00079	<0.00079	<0.0016	<0.00079	<0.00079	--	<0.00079	--
GB-149A	GB-149A-5.5	5.5	2/22/2018	<0.0042	<0.00083	<0.00083	<0.00083	<0.00083	<0.0017	<0.00083	<0.00083	--	<0.00083	--
GB-150	GB-150-2.0	2	11/9/2017	<0.005	<0.00099	<0.00099	<0.00099	<0.00099	<0.002	<0.00099	<0.00099	--	<0.00099	--
GB-150	GB-150-4.5	4.5	11/9/2017	<0.0048	<0.00097	<0.00097	<0.00097	<0.00097	<0.0019	<0.00097	<0.00097	--	<0.00097	--
GB-150	GB-150-10.0	10	11/10/2017	<0.23	<0.046	<0.046	<0.046	<0.046	<0.091	<0.046	<0.046	--	<0.046	--
GB-150A	GB-150A-5.5	5.5	2/22/2018	<0.0048	<0.00097	<0.00097	<0.00097	<0.00097	<0.0019	<0.00097	<0.00097	--	<0.00097	--
GB-151	GB-151-2.0	2	11/8/2017	<0.0038	<0.00076	<0.00076	<0.00076	<0.00076	<0.0015	<0.00076	<0.00076	--	<0.00076	--
GB-151	GB-151-5.0	5	12/4/2017	<0.0044	<0.00087	<0.00087	<0.00087	<0.00087	<0.0017	<0.00087	<0.00087	--	<0.00087	--
GB-151	GB-151-9.5	9.5	12/5/2017	<22	<4.5	<4.5	<4.5	<4.5	<8.9	<4.5	<4.5	--	<4.5	--
GB-151	GB-151-15.0	15	12/5/2017	<19	<3.7	<3.7	<3.7	<3.7	<7.4	<3.7	<3.7	--	<3.7	--
GB-151	GB-151-19.0	19	12/5/2017	<20	<4.1	<4.1	<4.1	<4.1	<8.1	<4.1	<4.1	--	<4.1	--
GB-151	GB-151-26.0	26	12/6/2017	<0.36	<0.072	<0.072	<0.072	<0.072	<0.14	<0.072	<0.072	--	<0.072	--
GB-152	GB-152-2.0	2	11/9/2017	<0.0038	<0.00077	<0.00077	<0.00077	<0.00077	<0.0015	<0.00077	<0.00077	--	<0.00077	--
GB-152	GB-152-4.5	4.5	11/21/2017	<0.0036	<0.00073	<0.00073	<0.00073	<0.00073	<0.0015	<0.00073	<0.00073	--	<0.00073	--
GB-152	GB-152-10.5	10.5	11/21/2017	<0.004	<0.00081	<0.00081	<0.00081	<0.00081	<0.0016	<0.00081	<0.00081	--	<0.00081	--
GB-152	GB-152-13.5	13.5	11/21/2017	<65	<13	<13	<13	<13	<26	<13	<13	--	<13	--
GB-152	GB-152-16.5	16.5	11/21/2017	<0.23	<0.045	<0.045	<0.045	<0.045	<0.091	<0.045	<0.045	--	<0.045	--
GB-153	GB-153-5.0	5	11/21/2017	<0.0048	<0.00097	<0.00097	<0.00097	<0.00097	<0.0019	<0.00097	<0.00097	--	<0.00097	--
GB-153	GB-153-1.5	1.5	12/5/2017	<0.0044	<0.00088	<0.00088	<0.00088	<0.00088	<0.0018	<0.00088	<0.00088	--	<0.00088	--
GB-153	GB-153-9.0	9	12/5/2017	<0.79	<0.16	<0.16	<0.16	<0.16	<0.32	<0.16	<0.16	--	<0.16	--
GB-153	GB-153-13.0	13	12/5/2017	<0.2	<0.041	<0.041	<0.041	<0.041	<0.082	<0.041	<0.041	--	<0.041	--
GB-153	GB-153-18.0	18	12/5/2017	<270	<53	<53	<53	<53	<110	<53	<53	--	<53	--
GB-153	GB-153-20.0	20	12/5/2017	<3.8	<0.76	<0.76	<0.76	<0.76	<1.5	<0.76	<0.76	--	<0.76	--
GB-154	GB-154-2.0	2	11/16/2017	<0.0037	<0.00073	<0.00073	<0.00073	<0.00073	<0.0015	<0.00073	<0.00073	--	<0.00073	--
GB-154	GB-154-5.0	5	11/16/2017	<0.004	<0.0008	<0.0008	<0.0008	<0.0008	<0.0016	<0.0008	<0.0008	--	<0.0008	--
GB-154	GB-154-9.5	9.5	12/4/2017	<0.0045	<0.00089	<0.00089	<0.00089	<0.00089	<0.0018	<0.00089	<0.00089	--	<0.00089	--
GB-154	GB-154-19.0	19	12/6/2017	<0.47	<0.094	<0.094	<0.094	<0.094	<0.19	<0.094	<0.094	--	<0.094	--
GB-154	GB-154-23.0	23	12/6/2017	<1.9	<0.38	<0.38	<0.38	<0.38	<0.75	<0.38	<0.38	--	<0.38	--
GB-154A	GB-154A-9.5	9.5	1/5/2018	--	--	--	--	--	--	--	--	--	--	--
GB-155	GB-155-2.0	2	11/16/2017	<0.0041	<0.00082	<0.00082	<0.00082	<0.00082	<0.0016	<0.00082	<0.00082	--	<0.00082	--
GB-155A	GB-155A-5.0	5	1/2/2018	<1.2	<0.24	<0.24	<0.24	<0.24	<0.48	<0.24	<0.24	--	<0.24	--
GB-155A	GB-155A-9.0	9	1/4/2018	<14	<2.8	<2.8	<2.8	<2.8	<5.6	<2.8	<2.8	--	<2.8	--
GB-155A	GB-155A-15.0	15	1/4/2018	--	--	--	--	--	--	--	--	--	--	--
GB-155B	GB-155B-5.5	5.5	2/23/2018	<0.0043	<0.00087	<0.00087	<0.00087	<0.00087	<0.0017	<0.00087	<0.00087	--	<0.00087	--
GB-155C	GB-155C-3.0	3	2/23/2018	<0.0039	<0.00078	<0.00078	<0.00078	<0.00078	<0.0016	<0.00078	<0.00078	--	<0.00078	--
GB-156	GB-156-2.0	2	11/16/2017	<0.0041	<0.00083	<0.00083	<0.00083	<0.00083	<0.0017	<0.00083	<0.00083	--	<0.00083	--
GB-156A	GB-156A-5.0	5	1/2/2018	<0.0041	<0.00083	<0.00083	<0.00083	<0.00083	<0.0017	<0.00083	<0.00083	--	<0.00083	--
GB-156B	GB-156B-5.5	5.5	2/22/2018	<0.0046	<0.00091	<0.00091	<0.00091	<0.00091	<0.0018	<0.00091	<0.00091	--	<0.00091	--
GB-157	GB-157-10.0	10	1/8/2018	--	--	--	--	--	--	--	--	--	--	--
GB-158	GB-158-10.0	10	1/5/2018	--	--	--	--	--	--	--	--	--	--	--
GB-158	GB-158-15.0	15	1/5/2018	--	--	--	--	--	--	--	--	--	--	--
GB-159	GB-159-8.5	8.5	1/4/2018	--	--	--	--	--	--	--	--	--	--	--
GB-161	GB-161-9.25	9.25	1/5/2018	--	--	--	--	--	--	--	--	--	--	--
GB-161	GB-161-15.0	15	1/5/2018	--	--	--	--	--	--	--	--	--	--	--
GB-161	GB-161-17.5	17.5	1/5/2018	--	--	--	--	--	--	--	--	--	--	--
GB-161	GB-161-20.0	20	1/5/2018	--	--	--	--	--	--	--	--	--	--	--
GB-162	GB-162-9.5	9.5	1/4/2018	--	--	--	--	--	--	--	--	--	--	--
GB-162	GB-162-15.0	15	1/4/2018	--	--	--	--	--	--	--	--	--	--	--
GB-162	GB-162-19.5	19.5	1/4/2018	--	--	--	--	--	--	--	--	--	--	--
GB-163	GB-163-9.0	9	1/3/2018	--	--	--	--	--	--	--	--	--	--	--
GB-163	GB-163-14.0	14	1/3/2018	--	--	--	--	--	--	--	--	--	--	--

TABLE A-1
ANALYTICAL DATA: VOLATILE ORGANIC COMPOUNDS IN SOIL
TANK FARM AREA, POTRERO POWER PLANT
SAN FRANCISCO, CALIFORNIA

Location ID	Sample ID	Bottom Depth (feet bgs)	Sample Date	2,2-Dichloropropane	2-Butanone (MEK)	2-Chlorotoluene	2-Hexanone (Methyl butyl ketone)	4-Chlorotoluene	4-Methyl-2-pentanone (MIBK)	Acetone	Benzene	Bromobenzene	Bromo-dichloromethane	Bromoform	Bromomethane	Carbon Disulfide
GB-144	GB-144-5.5	5.5	11/10/2017	<0.22	<0.87	<0.043	<0.87	<0.043	<0.87	<2.2	**0.28**	<0.043	<0.043	<0.22	<0.87	<0.43
GB-144	GB-144-10.0	10	11/10/2017	<0.0038	<0.015	<0.00076	<0.015	<0.00076	<0.015	<0.038	<0.00076	<0.00076	<0.00076	<0.0038	<0.015	<0.0076
GB-145	GB-145-2.0	2	11/14/2017	<0.0043	<0.017	<0.00086	<0.017	<0.00086	<0.017	<0.043	<0.00086	<0.00086	<0.00086	<0.0043	<0.017	<0.0086
GB-145	GB-145-5.0	5	11/14/2017	<0.0051	<0.02	<0.001	<0.02	<0.001	<0.02	<0.051	<0.001	<0.001	<0.001	<0.0051	<0.02	<0.01
GB-145	GB-145-7.0	7	11/14/2017	<0.0051	<0.02	<0.001	<0.02	<0.001	<0.02	<0.051	<0.001	<0.001	<0.001	<0.0051	<0.02	<0.01
GB-145	GB-145-14.0	14	11/14/2017	<0.17	<0.68	<0.034	<0.68	<0.034	<0.68	<1.7	<0.034	<0.034	<0.034	<0.17	<0.68	<0.34
GB-146	GB-146-1.0	1	12/5/2017	<0.33	<1.3	<0.066	<1.3	<0.066	<1.3	<3.3	**0.082**	<0.066	<0.066	<0.33	<1.3	<0.66
GB-146	GB-146-4.0	4	12/5/2017	<22	<89	<4.4	<89	<4.4	<89	<220	**11**	<4.4	<4.4	<22	<89	<44
GB-146A	GB-146A-7.5	7.5	1/5/2018	--	--	--	--	--	--	--	<0.38	--	--	--	--	--
GB-147	GB-147-2.0	2	11/10/2017	<0.0049	<0.02	<0.00098	<0.02	<0.00098	<0.02	<0.049	**0.0012**	<0.00098	<0.00098	<0.0049	<0.02	<0.0098
GB-147	GB-147-5.0	5	11/10/2017	<0.21	<0.86	<0.043	<0.86	<0.043	<0.86	<2.1	**0.14**	<0.043	<0.043	<0.21	<0.86	<0.43
GB-147	GB-147-9.25	9.25	11/10/2017	<2.3	<9	<0.45	<9	<0.45	<9	<23	**95**	<0.45	<0.45	<2.3	<9	<4.5
GB-147	GB-147-12.5	12.5	11/10/2017	<10	<42	<2.1	<42	<2.1	<42	<100	**5.1**	<2.1	<2.1	<10	<42	<21
GB-147	GB-147-15.0	15	11/10/2017	<1	<4	<0.2	<4	<0.2	<4	<10	**0.96**	<0.2	<0.2	<1	<4	<2
GB-148	GB-148-2.0	2	11/7/2017	<0.004	<0.016	<0.00081	<0.016	<0.00081	<0.016	<0.04	**0.0015**	<0.00081	<0.00081	<0.004	<0.016	<0.0081
GB-148	GB-148-5.0	5	11/7/2017	<0.0043	<0.017	<0.00086	<0.017	<0.00086	<0.017	<0.043	**0.068**	<0.00086	<0.00086	<0.0043	<0.017	<0.0086
GB-148	GB-148-7.5	7.5	11/7/2017	<5.4	<22	<1.1	<22	<1.1	<22	<54	**27**	<1.1	<1.1	<5.4	<22	<11
GB-148	GB-148-10.0	10	11/7/2017	<0.0047	<0.019	<0.00094	<0.019	<0.00094	<0.019	<0.047	<0.00094	<0.00094	<0.00094	<0.0047	<0.019	<0.0094
GB-149	GB-149-2.0	2	11/14/2017	<0.0044	<0.018	<0.00088	<0.018	<0.00088	<0.018	**0.053**	<0.00088	<0.00088	<0.00088	<0.0044	<0.018	<0.0088
GB-149	GB-149-5.0	5	11/21/2017	<0.0037	<0.015	<0.00075	<0.015	<0.00075	<0.015	<0.037	<0.00075	<0.00075	<0.00075	<0.0037	<0.015	<0.0075
GB-149	GB-149-10.5	10.5	11/21/2017	<0.25	<1	<0.05	<1	<0.05	<1	<2.5	<0.05	<0.05	<0.05	<0.25	<1	<0.5
GB-149	GB-149-14.5	14.5	11/21/2017	<0.004	<0.016	<0.00079	<0.016	<0.00079	<0.016	<0.04	<0.00079	<0.00079	<0.00079	<0.004	<0.016	**0.013**
GB-149A	GB-149A-5.5	5.5	2/22/2018	<0.0042	<0.017	<0.00083	<0.017	<0.00083	<0.017	**0.059**	**0.0024**	<0.00083	<0.00083	<0.0042	<0.017	<0.0083
GB-150	GB-150-2.0	2	11/9/2017	<0.005	<0.02	<0.00099	<0.02	<0.00099	<0.02	<0.05	<0.00099	<0.00099	<0.00099	<0.005	<0.02	<0.0099
GB-150	GB-150-4.5	4.5	11/9/2017	<0.0048	<0.019	<0.00097	<0.019	<0.00097	<0.019	<0.048	<0.00097	<0.00097	<0.00097	<0.0048	<0.019	<0.0097
GB-150	GB-150-10.0	10	11/10/2017	<0.23	<0.91	<0.046	<0.91	<0.046	<0.91	<2.3	**0.33**	<0.046	<0.046	<0.23	<0.91	<0.46
GB-150A	GB-150A-5.5	5.5	2/22/2018	<0.0048	<0.019	<0.00097	<0.019	<0.00097	<0.019	<0.048	<0.00097	<0.00097	<0.00097	<0.0048	<0.019	<0.0097
GB-151	GB-151-2.0	2	11/8/2017	<0.0038	<0.015	<0.00076	<0.015	<0.00076	<0.015	**0.04**	**0.0012**	<0.00076	<0.00076	<0.0038	<0.015	<0.0076
GB-151	GB-151-5.0	5	12/4/2017	<0.0044	<0.017	<0.00087	<0.017	<0.00087	<0.017	<0.044	**0.0029 J**	<0.00087	<0.00087	<0.0044	<0.017	<0.0087
GB-151	GB-151-9.5	9.5	12/5/2017	<22	<89	<4.5	<89	<4.5	<89	<220	**13**	<4.5	<4.5	<22	<89	<45
GB-151	GB-151-15.0	15	12/5/2017	<19	<74	<3.7	<74	<3.7	<74	<190	<3.7	<3.7	<3.7	<19	<74	<37
GB-151	GB-151-19.0	19	12/5/2017	<20	<81	<4.1	<81	<4.1	<81	<200	**140**	<4.1	<4.1	<20	<81	<41
GB-151	GB-151-26.0	26	12/6/2017	<0.36	<1.4	<0.072	<1.4	<0.072	<1.4	<3.6	<0.072	<0.072	<0.072	<0.36	<1.4	<0.72
GB-152	GB-152-2.0	2	11/9/2017	<0.0038	<0.015	<0.00077	<0.015	<0.00077	<0.015	**0.052**	<0.00077	<0.00077	<0.00077	<0.0038	<0.015	<0.0077
GB-152	GB-152-4.5	4.5	11/21/2017	<0.0036	<0.015	<0.00073	<0.015	<0.00073	<0.015	<0.036	<0.00073	<0.00073	<0.00073	<0.0036	<0.015	<0.0073
GB-152	GB-152-10.5	10.5	11/21/2017	<0.004	<0.016	<0.00081	<0.016	<0.00081	<0.016	<0.04	<0.00081	<0.00081	<0.00081	<0.004	<0.016	<0.0081
GB-152	GB-152-13.5	13.5	11/21/2017	<65	<260	<13	<260	<13	<260	<650	<13	<13	<13	<65	<260	<130
GB-152	GB-152-16.5	16.5	11/21/2017	<0.23	<0.91	<0.045	<0.91	<0.045	<0.91	<2.3	<0.045	<0.045	<0.045	<0.23	<0.91	<0.45
GB-153	GB-153-5.0	5	11/21/2017	<0.0048	<0.019	<0.00097	<0.019	<0.00097	<0.019	<0.048	**0.0034**	<0.00097	<0.00097	<0.0048	<0.019	**0.0099**
GB-153	GB-153-1.5	1.5	12/5/2017	<0.0044	<0.018	<0.00088	<0.018	<0.00088	<0.018	<0.044	**0.0012 J**	<0.00088	<0.00088	<0.0044	<0.018	<0.0088
GB-153	GB-153-9.0	9	12/5/2017	<0.79	<3.2	<0.16	<3.2	<0.16	<3.2	<7.9	<0.16	<0.16	<0.16	<0.79	<3.2	<1.6
GB-153	GB-153-13.0	13	12/5/2017	<0.2	<0.82	<0.041	<0.82	<0.041	<0.82	<2	<0.041	<0.041	<0.041	<0.2	<0.82	<0.41
GB-153	GB-153-18.0	18	12/5/2017	<270	<1100	<53	<1100	<53	<1100	<2700	**95**	<53	<53	<270	<1100	<530
GB-153	GB-153-20.0	20	12/5/2017	<3.8	<15	<0.76	<15	<0.76	<15	<38	<0.76	<0.76	<0.76	<3.8	<15	<7.6
GB-154	GB-154-2.0	2	11/16/2017	<0.0037	<0.015	<0.00073	<0.015	<0.00073	<0.015	**0.044**	<0.00073	<0.00073	<0.00073	<0.0037	<0.015	<0.0073
GB-154	GB-154-5.0	5	11/16/2017	<0.004	<0.016	<0.0008	<0.016	<0.0008	<0.016	**0.074**	<0.0008	<0.0008	<0.0008	<0.004	<0.016	<0.008
GB-154	GB-154-9.5	9.5	12/4/2017	<0.0045	<0.018	<0.00089	<0.018	<0.00089	<0.018	<0.045	**0.0021**	<0.00089	<0.00089	<0.0045	<0.018	**0.057**
GB-154	GB-154-19.0	19	12/6/2017	<0.47	<1.9	<0.094	<1.9	<0.094	<1.9	<4.7	**2**	<0.094	<0.094	<0.47	<1.9	<0.94
GB-154	GB-154-23.0	23	12/6/2017	<1.9	<7.5	<0.38	<7.5	<0.38	<7.5	<19	<0.38	<0.38	<0.38	<1.9	<7.5	<3.8
GB-154A	GB-154A-9.5	9.5	1/5/2018	--	--	--	--	--	--	--	<0.046	--	--	--	--	--
GB-155	GB-155-2.0	2	11/16/2017	<0.0041	<0.016	<0.00082	<0.016	<0.00082	<0.016	<0.041	**0.0031**	<0.00082	<0.00082	<0.0041	<0.016	<0.0082
GB-155A	GB-155A-5.0	5	1/2/2018	<1.2	<4.8	<0.24	<4.8	<0.24	<4.8	<12	<0.24	<0.24	<0.24	<1.2	<4.8	<2.4
GB-155A	GB-155A-9.0	9	1/4/2018	<14	<56	<2.8	<56	<2.8	<56	<140	**19**	<2.8	<2.8	<14	<56	<28
GB-155A	GB-155A-15.0	15	1/4/2018	--	--	--	--	--	--	--	**0.14**	--	--	--	--	--
GB-155B	GB-155B-5.5	5.5	2/23/2018	<0.0043	<0.017	<0.00087	<0.017	<0.00087	<0.017	<0.043	**0.012**	<0.00087	<0.00087	<0.0043	<0.017	<0.0087
GB-155C	GB-155C-3.0	3	2/23/2018	<0.0039	<0.016	<0.00078	<0.016	<0.00078	<0.016	<0.039	<0.00078	<0.00078	<0.00078	<0.0039	<0.016	<0.0078
GB-156	GB-156-2.0	2	11/16/2017	<0.0041	<0.017	<0.00083	<0.017	<0.00083	<0.017	**0.049**	**0.0032**	<0.00083	<0.00083	<0.0041	<0.017	<0.0083
GB-156A	GB-156A-5.0	5	1/2/2018	<0.0041	<0.017	<0.00083	<0.017	<0.00083	<0.017	<0.041	**0.0038**	<0.00083	<0.00083	<0.0041	<0.017	**0.0097**
GB-156B	GB-156B-5.5	5.5	2/22/2018	<0.0046	<0.018	<0.00091	<0.018	<0.00091	<0.018	<0.046	<0.00091	<0.00091	<0.00091	<0.0046	<0.018	<0.0091
GB-157	GB-157-10.0	10	1/8/2018	--	--	--	--	--	--	--	**0.0016**	--	--	--	--	--
GB-158	GB-158-10.0	10	1/5/2018	--	--	--	--	--	--	--	<0.00076	--	--	--	--	--
GB-158	GB-158-15.0	15	1/5/2018	--	--	--	--	--	--	--	**0.018**	--	--	--	--	--
GB-159	GB-159-8.5	8.5	1/4/2018	--	--	--	--	--	--	--	**0.0083**	--	--	--	--	--
GB-161	GB-161-9.25	9.25	1/5/2018	--	--	--	--	--	--	--	**130**	--	--	--	--	--
GB-161	GB-161-15.0	15	1/5/2018	--	--	--	--	--	--	--	**17**	--	--	--	--	--
GB-161	GB-161-17.5	17.5	1/5/2018	--	--	--	--	--	--	--	<0.047	--	--	--	--	--
GB-161	GB-161-20.0	20	1/5/2018	--	--	--	--	--	--	--	<0.00083	--	--	--	--	--
GB-162	GB-162-9.5	9.5	1/4/2018	--	--	--	--	--	--	--	**140**	--	--	--	--	--
GB-162	GB-162-15.0	15	1/4/2018	--	--	--	--	--	--	--	<0.81	--	--	--	--	--
GB-162	GB-162-19.5	19.5	1/4/2018	--	--	--	--	--	--	--	<0.17	--	--	--	--	--
GB-163	GB-163-9.0	9	1/3/2018	--	--	--	--	--	--	--	**0.013**	--	--	--	--	--
GB-163	GB-163-14.0	14	1/3/2018	--	--	--	--	--	--	--	**50**	--	--	--	--	--

TABLE A-1
ANALYTICAL DATA: VOLATILE ORGANIC COMPOUNDS IN SOIL
TANK FARM AREA, POTRERO POWER PLANT
SAN FRANCISCO, CALIFORNIA

Location ID	Sample ID	Bottom Depth (feet bgs)	Sample Date	Carbon Tetrachloride	Chlorobenzene	Chloro-bromomethane	Chloro-dibromomethane	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Cyclohexanone	Cumene	Dibromomethane
GB-144	GB-144-5.5	5.5	11/10/2017	<0.043	<0.043	<0.087	<0.087	<0.087	<0.043	<0.87	<0.043	<0.043	<2.2	<0.043	<0.043
GB-144	GB-144-10.0	10	11/10/2017	<0.00076	<0.00076	<0.0015	<0.0015	<0.0015	<0.00076	<0.015	<0.00076	<0.00076	<0.038	<0.00076	<0.00076
GB-145	GB-145-2.0	2	11/14/2017	<0.00086	<0.00086	<0.0017	<0.0017	<0.0017	<0.00086	<0.017	<0.00086	<0.00086	<0.043	<0.00086	<0.00086
GB-145	GB-145-5.0	5	11/14/2017	<0.001	<0.001	<0.002	<0.002	<0.002	<0.001	<0.02	<0.001	<0.001	<0.051	<0.001	<0.001
GB-145	GB-145-7.0	7	11/14/2017	<0.001	<0.001	<0.002	<0.002	<0.002	<0.001	<0.02	<0.001	<0.001	<0.051	<0.001	<0.001
GB-145	GB-145-14.0	14	11/14/2017	<0.034	<0.034	<0.068	<0.068	<0.068	<0.034	<0.68	<0.034	<0.034	<1.7	<0.034	<0.034
GB-146	GB-146-1.0	1	12/5/2017	<0.066	<0.066	<0.13	<0.13	<0.13	<0.066	<1.3	<0.066	<0.066	<3.3	<0.066	<0.066
GB-146	GB-146-4.0	4	12/5/2017	<4.4	<4.4	<8.9	<8.9	<8.9	<4.4	<89	<4.4	<4.4	<220	<4.4	<4.4
GB-146A	GB-146A-7.5	7.5	1/5/2018	--	--	--	--	--	--	--	--	--	--	--	--
GB-147	GB-147-2.0	2	11/10/2017	<0.00098	<0.00098	<0.002	<0.002	<0.002	<0.00098	<0.02	<0.00098	<0.00098	<0.049	<0.00098	<0.00098
GB-147	GB-147-5.0	5	11/10/2017	<0.043	<0.043	<0.086	<0.086	<0.086	<0.043	<0.86	<0.043	<0.043	<2.1	**0.23**	<0.043
GB-147	GB-147-9.25	9.25	11/10/2017	<0.45	<0.45	<0.9	<0.9	<0.9	<0.45	<9	<0.45	<0.45	<23	**1.4**	<0.45
GB-147	GB-147-12.5	12.5	11/10/2017	<2.1	<2.1	<4.2	<4.2	<4.2	<2.1	<42	<2.1	<2.1	<100	<2.1	<2.1
GB-147	GB-147-15.0	15	11/10/2017	<0.2	<0.2	<0.4	<0.4	<0.4	<0.2	<4	<0.2	<0.2	<10	<0.2	<0.2
GB-148	GB-148-2.0	2	11/7/2017	<0.00081	<0.00081	<0.0016	<0.0016	<0.0016	<0.00081	<0.016	<0.00081	<0.00081	<0.04	<0.00081	<0.00081
GB-148	GB-148-5.0	5	11/7/2017	<0.00086	<0.00086	<0.0017	<0.0017	<0.0017	<0.00086	<0.017	<0.00086	<0.00086	<0.043	<0.00086	<0.00086
GB-148	GB-148-7.5	7.5	11/7/2017	<1.1	<1.1	<2.2	<2.2	<2.2	<1.1	<22	<1.1	<1.1	<54	<1.1	<1.1
GB-148	GB-148-10.0	10	11/7/2017	<0.00094	<0.00094	<0.0019	<0.0019	<0.0019	<0.00094	<0.019	<0.00094	<0.00094	<0.047	<0.00094	<0.00094
GB-149	GB-149-2.0	2	11/14/2017	<0.00088	<0.00088	<0.0018	<0.0018	<0.0018	<0.00088	<0.018	<0.00088	<0.00088	<0.044	<0.00088	<0.00088
GB-149	GB-149-5.0	5	11/21/2017	<0.00075	<0.00075	<0.0015	<0.0015	<0.0015	<0.00075	<0.015	<0.00075	<0.00075	<0.037	<0.00075	<0.00075
GB-149	GB-149-10.5	10.5	11/21/2017	<0.05	<0.05	<0.1	<0.1	<0.1	<0.05	<1	<0.05	<0.05	<2.5	<0.05	<0.05
GB-149	GB-149-14.5	14.5	11/21/2017	<0.00079	<0.00079	<0.0016	<0.0016	<0.0016	<0.00079	<0.016	<0.00079	<0.00079	<0.04	<0.00079	<0.00079
GB-149A	GB-149A-5.5	5.5	2/22/2018	<0.00083	<0.00083	<0.0017	<0.0017	<0.0017	<0.00083	<0.017	<0.00083	<0.00083	<0.042	<0.00083	<0.00083
GB-150	GB-150-2.0	2	11/9/2017	<0.00099	<0.00099	<0.002	<0.002	<0.002	<0.00099	<0.02	<0.00099	<0.00099	<0.05	<0.00099	<0.00099
GB-150	GB-150-4.5	4.5	11/9/2017	<0.00097	<0.00097	<0.0019	<0.0019	<0.0019	<0.00097	<0.019	<0.00097	<0.00097	<0.048	<0.00097	<0.00097
GB-150	GB-150-10.0	10	11/10/2017	<0.046	<0.046	<0.091	<0.091	<0.091	<0.046	<0.91	<0.046	<0.046	<2.3	<0.046	<0.046
GB-150A	GB-150A-5.5	5.5	2/22/2018	<0.00097	<0.00097	<0.0019	<0.0019	<0.0019	<0.00097	<0.019	<0.00097	<0.00097	<0.048	<0.00097	<0.00097
GB-151	GB-151-2.0	2	11/8/2017	<0.00076	<0.00076	<0.0015	<0.0015	<0.0015	<0.00076	<0.015	<0.00076	<0.00076	<0.038	<0.00076	<0.00076
GB-151	GB-151-5.0	5	12/4/2017	<0.00087	<0.00087	<0.0017	<0.0017	<0.0017	<0.00087	<0.017	<0.00087	<0.00087	<0.044	<0.00087	<0.00087
GB-151	GB-151-9.5	9.5	12/5/2017	<4.5	<4.5	<8.9	<8.9	<8.9	<4.5	<89	<4.5	<4.5	<220	<4.5	<4.5
GB-151	GB-151-15.0	15	12/5/2017	<3.7	<3.7	<7.4	<7.4	<7.4	<3.7	<74	<3.7	<3.7	<190	<3.7	<3.7
GB-151	GB-151-19.0	19	12/5/2017	<4.1	<4.1	<8.1	<8.1	<8.1	<4.1	<81	<4.1	<4.1	<200	<4.1	<4.1
GB-151	GB-151-26.0	26	12/6/2017	<0.072	<0.072	<0.14	<0.14	<0.14	<0.072	<1.4	<0.072	<0.072	<3.6	<0.072	<0.072
GB-152	GB-152-2.0	2	11/9/2017	<0.00077	<0.00077	<0.0015	<0.0015	<0.0015	<0.00077	<0.015	<0.00077	<0.00077	<0.038	<0.00077	<0.00077
GB-152	GB-152-4.5	4.5	11/21/2017	<0.00073	<0.00073	<0.0015	<0.0015	<0.0015	<0.00073	<0.015	<0.00073	<0.00073	<0.036	<0.00073	<0.00073
GB-152	GB-152-10.5	10.5	11/21/2017	<0.00081	<0.00081	<0.0016	<0.0016	<0.0016	<0.00081	<0.016	<0.00081	<0.00081	<0.04	<0.00081	<0.00081
GB-152	GB-152-13.5	13.5	11/21/2017	<13	<13	<26	<26	<26	<13	<260	<13	<13	<650	<13	<13
GB-152	GB-152-16.5	16.5	11/21/2017	<0.045	<0.045	<0.091	<0.091	<0.091	<0.045	<0.91	<0.045	<0.045	<2.3	**0.074**	<0.045
GB-153	GB-153-5.0	5	11/21/2017	<0.00097	<0.00097	<0.0019	<0.0019	<0.0019	<0.00097	<0.019	<0.00097	<0.00097	<0.048	<0.00097	<0.00097
GB-153	GB-153-1.5	1.5	12/5/2017	<0.00088	<0.00088	<0.0018	<0.0018	<0.0018	<0.00088	<0.018	<0.00088	<0.00088	<0.044	<0.00088	<0.00088
GB-153	GB-153-9.0	9	12/5/2017	<0.16	<0.16	<0.32	<0.32	<0.32	<0.16	<3.2	<0.16	<0.16	<7.9	<0.16	<0.16
GB-153	GB-153-13.0	13	12/5/2017	<0.041	<0.041	<0.082	<0.082	<0.082	<0.041	<0.82	<0.041	<0.041	<2	<0.041	<0.041
GB-153	GB-153-18.0	18	12/5/2017	<53	<53	<110	<110	<110	<53	<1100	<53	<53	<2700	<53	<53
GB-153	GB-153-20.0	20	12/5/2017	<0.76	<0.76	<1.5	<1.5	<1.5	<0.76	<15	<0.76	<0.76	<38	<0.76	<0.76
GB-154	GB-154-2.0	2	11/16/2017	<0.00073	<0.00073	<0.0015	<0.0015	<0.0015	<0.00073	<0.015	<0.00073	<0.00073	<0.037	<0.00073	<0.00073
GB-154	GB-154-5.0	5	11/16/2017	<0.0008	<0.0008	<0.0016	<0.0016	<0.0016	<0.0008	<0.016	<0.0008	<0.0008	<0.04	<0.0008	<0.0008
GB-154	GB-154-9.5	9.5	12/4/2017	<0.00089	<0.00089	<0.0018	<0.0018	<0.0018	<0.00089	<0.018	<0.00089	<0.00089	<0.045	<0.00089	<0.00089
GB-154	GB-154-19.0	19	12/6/2017	<0.094	<0.094	<0.19	<0.19	<0.19	<0.094	<1.9	<0.094	<0.094	<4.7	<0.094	<0.094
GB-154	GB-154-23.0	23	12/6/2017	<0.38	<0.38	<0.75	<0.75	<0.75	<0.38	<7.5	<0.38	<0.38	<19	<0.38	<0.38
GB-154A	GB-154A-9.5	9.5	1/5/2018	--	--	--	--	--	--	--	--	--	--	--	--
GB-155	GB-155-2.0	2	11/16/2017	<0.00082	<0.00082	<0.0016	<0.0016	<0.0016	<0.00082	<0.016	<0.00082	<0.00082	<0.041	<0.00082	<0.00082
GB-155A	GB-155A-5.0	5	1/2/2018	<0.24	<0.24	<0.48	<0.48	<0.48	<0.24	<4.8	<0.24	<0.24	<12	<0.24	<0.24
GB-155A	GB-155A-9.0	9	1/4/2018	<2.8	<2.8	<5.6	<5.6	<5.6	<2.8	<56	<2.8	<2.8	<140	<2.8	<2.8
GB-155A	GB-155A-15.0	15	1/4/2018	--	--	--	--	--	--	--	--	--	--	--	--
GB-155B	GB-155B-5.5	5.5	2/23/2018	<0.00087	<0.00087	<0.0017	<0.0017	<0.0017	<0.00087	<0.017	<0.00087	<0.00087	<0.043	<0.00087	<0.00087
GB-155C	GB-155C-3.0	3	2/23/2018	<0.00078	<0.00078	<0.0016	<0.0016	<0.0016	<0.00078	<0.016	<0.00078	<0.00078	<0.039	<0.00078	<0.00078
GB-156	GB-156-2.0	2	11/16/2017	<0.00083	<0.00083	<0.0017	<0.0017	<0.0017	<0.00083	<0.017	<0.00083	<0.00083	<0.041	<0.00083	<0.00083
GB-156A	GB-156A-5.0	5	1/2/2018	<0.00083	<0.00083	<0.0017	<0.0017	<0.0017	<0.00083	<0.017	<0.00083	<0.00083	<0.041	<0.00083	<0.00083
GB-156B	GB-156B-5.5	5.5	2/22/2018	<0.00091	<0.00091	<0.0018	<0.0018	<0.0018	<0.00091	<0.018	<0.00091	<0.00091	<0.046	<0.00091	<0.00091
GB-157	GB-157-10.0	10	1/8/2018	--	--	--	--	--	--	--	--	--	--	--	--
GB-158	GB-158-10.0	10	1/5/2018	--	--	--	--	--	--	--	--	--	--	--	--
GB-158	GB-158-15.0	15	1/5/2018	--	--	--	--	--	--	--	--	--	--	--	--
GB-159	GB-159-8.5	8.5	1/4/2018	--	--	--	--	--	--	--	--	--	--	--	--
GB-161	GB-161-9.25	9.25	1/5/2018	--	--	--	--	--	--	--	--	--	--	--	--
GB-161	GB-161-15.0	15	1/5/2018	--	--	--	--	--	--	--	--	--	--	--	--
GB-161	GB-161-17.5	17.5	1/5/2018	--	--	--	--	--	--	--	--	--	--	--	--
GB-161	GB-161-20.0	20	1/5/2018	--	--	--	--	--	--	--	--	--	--	--	--
GB-162	GB-162-9.5	9.5	1/4/2018	--	--	--	--	--	--	--	--	--	--	--	--
GB-162	GB-162-15.0	15	1/4/2018	--	--	--	--	--	--	--	--	--	--	--	--
GB-162	GB-162-19.5	19.5	1/4/2018	--	--	--	--	--	--	--	--	--	--	--	--
GB-163	GB-163-9.0	9	1/3/2018	--	--	--	--	--	--	--	--	--	--	--	--
GB-163	GB-163-14.0	14	1/3/2018	--	--	--	--	--	--	--	--	--	--	--	--

TABLE A-1
ANALYTICAL DATA: VOLATILE ORGANIC COMPOUNDS IN SOIL
TANK FARM AREA, POTRERO POWER PLANT
SAN FRANCISCO, CALIFORNIA

Location ID	Sample ID	Bottom Depth (feet bgs)	Sample Date	Cymene	Dichloro-difluoromethane (Freon 12)	Ethanol	Ethyl tert-butyl ether (ETBE)	Ethylbenzene	Hexachloro-butadiene	Isopropyl ether	m,p-Xylenes	Methyl tert-butyl ether (MTBE)	Methylene chloride	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene
GB-144	GB-144-5.5	5.5	11/10/2017	<0.043	<0.087	<22	<0.043	<0.043	--	<0.043	**0.23**	<0.087	<0.43	**5.2**	<0.043	<0.087	**0.085**
GB-144	GB-144-10.0	10	11/10/2017	<0.00076	<0.0015	<0.38	<0.00076	<0.00076	--	<0.00076	<0.0015	<0.0015	<0.0076	<0.0076	<0.00076	<0.0015	<0.00076
GB-145	GB-145-2.0	2	11/14/2017	<0.00086	<0.0017	<0.43	<0.00086	<0.00086	--	<0.00086	<0.0017	<0.0017	<0.0086	<0.0086	<0.00086	<0.0017	<0.00086
GB-145	GB-145-5.0	5	11/14/2017	<0.001	<0.002	<0.51	<0.001	<0.001	--	<0.001	<0.002	<0.002	<0.01	<0.01	<0.001	<0.002	<0.001
GB-145	GB-145-7.0	7	11/14/2017	<0.001	<0.002	<0.51	<0.001	<0.001	--	<0.001	<0.002	<0.002	<0.01	<0.01	<0.001	<0.002	<0.001
GB-145	GB-145-14.0	14	11/14/2017	<0.034	<0.068	<17	<0.034	<0.034	--	<0.034	<0.068	<0.068	<0.34	<0.34	<0.034	<0.068	<0.034
GB-146	GB-146-1.0	1	12/5/2017	<0.066	<0.13	<33	<0.066	<0.066	--	<0.066	<0.13	<0.13	<0.66	**3.4**	<0.066	<0.13	<0.066
GB-146	GB-146-4.0	4	12/5/2017	<4.4	<8.9	<2200	<4.4	**33**	--	<4.4	**21**	<8.9	<44	**9300**	<4.4	<8.9	**11**
GB-146A	GB-146A-7.5	7.5	1/5/2018	--	--	--	--	<0.38	--	--	<0.77	--	--	--	--	--	<0.38
GB-147	GB-147-2.0	2	11/10/2017	<0.00098	<0.002	<0.49	<0.00098	<0.00098	--	<0.00098	<0.002	<0.002	<0.0098	<0.0098	<0.00098	<0.002	<0.00098
GB-147	GB-147-5.0	5	11/10/2017	<0.043	<0.086	<21	<0.043	<0.043	--	<0.043	<0.086	<0.086	<0.43	**1.6**	**0.3**	**0.15**	<0.043
GB-147	GB-147-9.25	9.25	11/10/2017	**0.5**	<0.9	<230	<0.45	**47**	--	<0.45	**39**	<0.9	<4.5	**4500**	**0.52**	**1**	**16**
GB-147	GB-147-12.5	12.5	11/10/2017	<2.1	<4.2	<1000	<2.1	<2.1	--	<2.1	**11**	<4.2	<21	**640**	<2.1	<4.2	**5**
GB-147	GB-147-15.0	15	11/10/2017	<0.2	<0.4	<100	<0.2	<0.2	--	<0.2	**1.1**	<0.4	<2	**48**	<0.2	<0.4	**0.28**
GB-148	GB-148-2.0	2	11/7/2017	<0.00081	<0.0016	<0.4	<0.00081	<0.00081	--	<0.00081	<0.0016	<0.0016	<0.0081	**0.011**	<0.00081	<0.0016	<0.00081
GB-148	GB-148-5.0	5	11/7/2017	<0.00086	<0.0017	<0.43	<0.00086	**0.0058**	--	<0.00086	<0.0017	<0.0017	<0.0086	**0.027**	<0.00086	<0.0017	**0.0059**
GB-148	GB-148-7.5	7.5	11/7/2017	<1.1	<2.2	<540	<1.1	**32**	--	<1.1	**24**	<2.2	<11	**5100**	<1.1	<2.2	**16**
GB-148	GB-148-10.0	10	11/7/2017	<0.00094	<0.0019	<0.47	<0.00094	<0.00094	--	<0.00094	<0.0019	<0.0019	<0.0094	**0.043**	<0.00094	<0.0019	<0.00094
GB-149	GB-149-2.0	2	11/14/2017	<0.00088	<0.0018	<0.44	<0.00088	<0.00088	--	<0.00088	<0.0018	<0.0018	<0.0088	<0.0088	<0.00088	<0.0018	<0.00088
GB-149	GB-149-5.0	5	11/21/2017	<0.00075	<0.0015	<0.37	<0.00075	<0.00075	--	<0.00075	<0.0015	<0.0015	<0.0075	<0.0075	<0.00075	<0.0015	<0.00075
GB-149	GB-149-10.5	10.5	11/21/2017	<0.05	<0.1	<25	<0.05	<0.05	--	<0.05	<0.1	<0.1	<0.5	<0.5	<0.05	<0.1	<0.05
GB-149	GB-149-14.5	14.5	11/21/2017	<0.00079	<0.0016	<0.4	<0.00079	<0.00079	--	<0.00079	<0.0016	<0.0016	<0.0079	<0.0079	<0.00079	<0.0016	<0.00079
GB-149A	GB-149A-5.5	5.5	2/22/2018	<0.00083	<0.0017	<0.42	<0.00083	<0.00083	--	<0.00083	<0.0017	<0.0017	<0.0083	<0.0083	<0.00083	<0.0017	<0.00083
GB-150	GB-150-2.0	2	11/9/2017	<0.00099	<0.002	<0.5	<0.00099	<0.00099	--	<0.00099	<0.002	<0.002	<0.0099	<0.0099	<0.00099	<0.002	<0.00099
GB-150	GB-150-4.5	4.5	11/9/2017	<0.00097	<0.0019	<0.48	<0.00097	<0.00097	--	<0.00097	<0.0019	<0.0019	<0.0097	<0.0097	<0.00097	<0.0019	<0.00097
GB-150	GB-150-10.0	10	11/10/2017	<0.046	<0.091	<23	<0.046	<0.046	--	<0.046	<0.091	<0.091	<0.46	**3**	<0.046	<0.091	<0.046
GB-150A	GB-150A-5.5	5.5	2/22/2018	<0.00097	<0.0019	<0.48	<0.00097	<0.00097	--	<0.00097	<0.0019	<0.0019	<0.0097	<0.0097	<0.00097	<0.0019	<0.00097
GB-151	GB-151-2.0	2	11/8/2017	<0.00076	<0.0015	<0.38	<0.00076	<0.00076	--	<0.00076	<0.0015	<0.0015	<0.0076	<0.0076	<0.00076	<0.0015	<0.00076
GB-151	GB-151-5.0	5	12/4/2017	<0.00087	<0.0017	<0.44	<0.00087	<0.00087	--	<0.00087	<0.0017	<0.0017	<0.0087	**0.021**	<0.00087	<0.0017	<0.00087
GB-151	GB-151-9.5	9.5	12/5/2017	<4.5	<8.9	<2200	<4.5	**67**	--	<4.5	**17**	<8.9	<45	**15000**	<4.5	<8.9	**13**
GB-151	GB-151-15.0	15	12/5/2017	<3.7	<7.4	<1900	<3.7	<3.7	--	<3.7	<7.4	<7.4	<37	**850**	<3.7	<7.4	<3.7
GB-151	GB-151-19.0	19	12/5/2017	<4.1	<8.1	<2000	<4.1	**50**	--	<4.1	**18**	<8.1	<41	**19000**	<4.1	<8.1	**7.6**
GB-151	GB-151-26.0	26	12/6/2017	<0.072	<0.14	<36	<0.072	<0.072	--	<0.072	<0.14	<0.14	<0.72	**19**	<0.072	<0.14	<0.072
GB-152	GB-152-2.0	2	11/9/2017	<0.00077	<0.0015	<0.38	<0.00077	<0.00077	--	<0.00077	<0.0015	<0.0015	<0.0077	<0.0077	<0.00077	<0.0015	<0.00077
GB-152	GB-152-4.5	4.5	11/21/2017	<0.00073	<0.0015	<0.36	<0.00073	<0.00073	--	<0.00073	<0.0015	<0.0015	<0.0073	<0.0073	<0.00073	<0.0015	<0.00073
GB-152	GB-152-10.5	10.5	11/21/2017	<0.00081	<0.0016	<0.4	<0.00081	<0.00081	--	<0.00081	<0.0016	<0.0016	<0.0081	<0.0081	<0.00081	<0.0016	<0.00081
GB-152	GB-152-13.5	13.5	11/21/2017	<13	<26	<6500	<13	<13	--	<13	<26	<26	<130	**2100**	<13	<26	<13
GB-152	GB-152-16.5	16.5	11/21/2017	<0.045	<0.091	<23	<0.045	<0.045	--	<0.045	<0.091	<0.091	<0.45	<4	**0.076**	<0.091	<0.045
GB-153	GB-153-5.0	5	11/21/2017	<0.00097	<0.0019	<0.48	<0.00097	<0.00097	--	<0.00097	<0.0019	<0.0019	<0.0097	**0.046**	<0.00097	<0.0019	<0.00097
GB-153	GB-153-1.5	1.5	12/5/2017	<0.00088	<0.0018	<0.44	<0.00088	<0.00088	--	<0.00088	<0.0018	<0.0018	<0.0088	<0.0088	<0.00088	<0.0018	<0.00088
GB-153	GB-153-9.0	9	12/5/2017	<0.16	<0.32	<79	<0.16	<0.16	--	<0.16	<0.32	<0.32	<1.6	<1.6	**0.27**	<0.32	<0.16
GB-153	GB-153-13.0	13	12/5/2017	<0.041	<0.082	<20	<0.041	<0.041	--	<0.041	<0.082	<0.082	<0.41	**0.42**	**0.061**	<0.082	<0.041
GB-153	GB-153-18.0	18	12/5/2017	<53	<110	<27000	<53	<53	--	<53	<110	<110	<530	**26000**	<53	<110	<53
GB-153	GB-153-20.0	20	12/5/2017	<0.76	<1.5	<380	<0.76	<0.76	--	<0.76	<1.5	<1.5	<7.6	**90**	<0.76	<1.5	<0.76
GB-154	GB-154-2.0	2	11/16/2017	<0.00073	<0.0015	<0.37	<0.00073	<0.00073	--	<0.00073	<0.0015	<0.0015	<0.0073	<0.0073	<0.00073	<0.0015	<0.00073
GB-154	GB-154-5.0	5	11/16/2017	<0.0008	<0.0016	<0.4	<0.0008	<0.0008	--	<0.0008	<0.0016	<0.0016	<0.008	<0.008	<0.0008	<0.0016	<0.0008
GB-154	GB-154-9.5	9.5	12/4/2017	<0.00089	<0.0018	<0.45	<0.00089	<0.00089	--	<0.00089	<0.0018	<0.0018	<0.0089	<0.0089	<0.00089	<0.0018	<0.00089
GB-154	GB-154-19.0	19	12/6/2017	<0.094	<0.19	<47	<0.094	**1.1**	--	<0.094	<0.19	<0.19	<0.94	**7**	<0.094	<0.19	**0.24**
GB-154	GB-154-23.0	23	12/6/2017	<0.38	<0.75	<190	<0.38	<0.38	--	<0.38	<0.75	<0.75	<3.8	**34**	<0.38	<0.75	<0.38
GB-154A	GB-154A-9.5	9.5	1/5/2018	--	--	--	--	<0.046	--	--	<0.091	--	--	--	--	--	<0.046
GB-155	GB-155-2.0	2	11/16/2017	<0.00082	<0.0016	<0.41	<0.00082	<0.00082	--	<0.00082	<0.0016	<0.0016	<0.0082	<0.0082	<0.00082	<0.0016	<0.00082
GB-155A	GB-155A-5.0	5	1/2/2018	<0.24	<0.48	**360**	<0.24	<0.24	--	<0.24	<0.48	<0.48	<2.4	**18**	<0.24	<0.48	<0.24
GB-155A	GB-155A-9.0	9	1/4/2018	<2.8	<5.6	<1400	<2.8	**3.5**	--	<2.8	<5.6	<5.6	<28	**320**	<2.8	<5.6	<2.8
GB-155A	GB-155A-15.0	15	1/4/2018	--	--	--	--	**0.072**	--	--	<0.078	--	--	--	--	--	**0.044**
GB-155B	GB-155B-5.5	5.5	2/23/2018	<0.00087	<0.0017	<0.43	<0.00087	<0.00087	--	<0.00087	<0.0017	<0.0017	<0.0087	**0.079**	<0.00087	<0.0017	<0.00087
GB-155C	GB-155C-3.0	3	2/23/2018	<0.00078	<0.0016	<0.39	<0.00078	<0.00078	--	<0.00078	<0.0016	<0.0016	<0.0078	<0.0078	<0.00078	<0.0016	<0.00078
GB-156	GB-156-2.0	2	11/16/2017	<0.00083	<0.0017	<0.41	<0.00083	<0.00083	--	<0.00083	<0.0017	<0.0017	<0.0083	<0.0083	<0.00083	<0.0017	<0.00083
GB-156A	GB-156A-5.0	5	1/2/2018	<0.00083	<0.0017	<0.41	<0.00083	<0.00083	--	<0.00083	<0.0017	<0.0017	<0.0083	<0.0083	<0.00083	<0.0017	<0.00083
GB-156B	GB-156B-5.5	5.5	2/22/2018	<0.00091	<0.0018	<0.46	<0.00091	<0.00091	--	<0.00091	<0.0018	<0.0018	<0.0091	<0.0091	<0.00091	<0.0018	<0.00091
GB-157	GB-157-10.0	10	1/8/2018	--	--	--	--	<0.00079	--	--	<0.0016	--	--	--	--	--	<0.00079
GB-158	GB-158-10.0	10	1/5/2018	--	--	--	--	<0.00076	--	--	<0.0015	--	--	--	--	--	<0.00076
GB-158	GB-158-15.0	15	1/5/2018	--	--	--	--	<0.001	--	--	<0.002	--	--	--	--	--	<0.001
GB-159	GB-159-8.5	8.5	1/4/2018	--	--	--	--	<0.00074	--	--	<0.0015	--	--	--	--	--	<0.00074
GB-161	GB-161-9.25	9.25	1/5/2018	--	--	--	--	**190**	--	--	**120**	--	--	--	--	--	**47**
GB-161	GB-161-15.0	15	1/5/2018	--	--	--	--	**15**	--	--	<1.5	--	--	--	--	--	<0.76
GB-161	GB-161-17.5	17.5	1/5/2018	--	--	--	--	**0.5**	--	--	<0.094	--	--	--	--	--	**0.058**
GB-161	GB-161-20.0	20	1/5/2018	--	--	--	--	<0.00083	--	--	<0.0017	--	--	--	--	--	<0.00083
GB-162	GB-162-9.5	9.5	1/4/2018	--	--	--	--	**59**	--	--	**43**	--	--	--	--	--	**19**
GB-162	GB-162-15.0	15	1/4/2018	--	--	--	--	<0.81	--	--	<1.6	--	--	--	--	--	<0.81
GB-162	GB-162-19.5	19.5	1/4/2018	--	--	--	--	**0.61**	--	--	<0.34	--	--	--	--	--	<0.17
GB-163	GB-163-9.0	9	1/3/2018	--	--	--	--	**0.0032**	--	--	**0.0099**	--	--	--	--	--	**0.0035**
GB-163	GB-163-14.0	14	1/3/2018	--	--	--	--	**36**	--	--	<8.8	--	--	--	--	--	<4.4

TABLE A-1
ANALYTICAL DATA: VOLATILE ORGANIC COMPOUNDS IN SOIL
TANK FARM AREA, POTRERO POWER PLANT
SAN FRANCISCO, CALIFORNIA

Location ID	Sample ID	Bottom Depth (feet bgs)	Sample Date	sec-Butylbenzene	Styrene	t-Amyl Alcohol	Tert-Amyl Methyl Ether (TAME)	tert-Butyl alcohol	tert-Butylbenzene	Tetrachloro-ethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichloro-fluoromethane (Freon 11)	Vinyl Acetate
GB-144	GB-144-5.5	5.5	11/10/2017	<0.043	**0.044**	<2.2	<0.043	<0.87	<0.043	<0.043	**0.32**	<0.043	<0.087	<0.087	<0.43	<0.43
GB-144	GB-144-10.0	10	11/10/2017	<0.00076	<0.00076	<0.038	<0.00076	<0.015	<0.00076	<0.00076	<0.00076	<0.00076	<0.0015	<0.0015	<0.0076	<0.0076
GB-145	GB-145-2.0	2	11/14/2017	<0.00086	<0.00086	<0.043	<0.00086	<0.017	<0.00086	<0.00086	<0.00086	<0.00086	<0.0017	<0.0017	<0.0086	<0.0086
GB-145	GB-145-5.0	5	11/14/2017	<0.001	<0.001	<0.051	<0.001	<0.02	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.01	<0.01
GB-145	GB-145-7.0	7	11/14/2017	<0.001	<0.001	<0.051	<0.001	<0.02	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.01	<0.01
GB-145	GB-145-14.0	14	11/14/2017	<0.034	<0.034	<1.7	<0.034	<0.68	<0.034	<0.034	<0.034	<0.034	<0.068	<0.068	<0.34	<0.34
GB-146	GB-146-1.0	1	12/5/2017	<0.066	<0.066	<3.3	<0.066	<1.3	<0.066	<0.066	<0.066	<0.066	<0.13	<0.13	<0.66	<0.66
GB-146	GB-146-4.0	4	12/5/2017	<4.4	<4.4	<220	<4.4	<89	<4.4	<4.4	<4.4	<4.4	<8.9	<8.9	<44	<44
GB-146A	GB-146A-7.5	7.5	1/5/2018	--	--	--	--	--	--	--	<0.38	--	--	--	--	--
GB-147	GB-147-2.0	2	11/10/2017	<0.00098	<0.00098	<0.049	<0.00098	<0.02	<0.00098	<0.00098	<0.00098	<0.00098	<0.002	<0.002	<0.0098	<0.0098
GB-147	GB-147-5.0	5	11/10/2017	**0.4**	<0.043	<2.1	<0.043	<0.86	<0.043	<0.043	<0.043	<0.043	<0.086	<0.086	<0.43	<0.43
GB-147	GB-147-9.25	9.25	11/10/2017	<0.45	**3.8**	<23	<0.45	<9	<0.45	<0.45	**22**	<0.45	<0.9	<0.9	<4.5	<4.5
GB-147	GB-147-12.5	12.5	11/10/2017	<2.1	<2.1	<100	<2.1	<42	<2.1	<2.1	**2.3**	<2.1	<4.2	<4.2	<21	<21
GB-147	GB-147-15.0	15	11/10/2017	<0.2	<0.2	<10	<0.2	<4	<0.2	<0.2	<0.2	<0.2	<0.4	<0.4	<2	<2
GB-148	GB-148-2.0	2	11/7/2017	<0.00081	<0.00081	<0.04	<0.00081	<0.016	<0.00081	<0.00081	<0.00081	<0.00081	<0.0016	<0.0016	<0.0081	<0.0081
GB-148	GB-148-5.0	5	11/7/2017	<0.00086	<0.00086	<0.043	<0.00086	<0.017	<0.00086	<0.00086	**0.0016**	<0.00086	<0.0017	<0.0017	<0.0086	<0.0086
GB-148	GB-148-7.5	7.5	11/7/2017	<1.1	<1.1	<54	<1.1	<22	<1.1	<1.1	**12**	<1.1	<2.2	<2.2	<11	<11
GB-148	GB-148-10.0	10	11/7/2017	**0.0014**	<0.00094	<0.047	<0.00094	<0.019	<0.00094	<0.00094	<0.00094	<0.00094	<0.0019	<0.0019	<0.0094	<0.0094
GB-149	GB-149-2.0	2	11/14/2017	<0.00088	<0.00088	<0.044	<0.00088	<0.018	<0.00088	<0.00088	<0.00088	<0.00088	<0.0018	<0.0018	<0.0088	<0.0088
GB-149	GB-149-5.0	5	11/21/2017	<0.00075	<0.00075	<0.037	<0.00075	<0.015	<0.00075	<0.00075	<0.00075	<0.00075	<0.0015	<0.0015	<0.0075	<0.0075
GB-149	GB-149-10.5	10.5	11/21/2017	<0.05	<0.05	<2.5	<0.05	<1	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	<0.5	<0.5
GB-149	GB-149-14.5	14.5	11/21/2017	<0.00079	<0.00079	<0.04	<0.00079	<0.016	<0.00079	<0.00079	<0.00079	<0.00079	<0.0016	<0.0016	<0.0079	<0.0079
GB-149A	GB-149A-5.5	5.5	2/22/2018	<0.00083	<0.00083	<0.042	<0.00083	<0.017	<0.00083	<0.00083	<0.00083	<0.00083	<0.0017	<0.0017	<0.0083	<0.0083
GB-150	GB-150-2.0	2	11/9/2017	<0.00099	<0.00099	<0.05	<0.00099	<0.02	<0.00099	<0.00099	<0.00099	<0.00099	<0.002	<0.002	<0.0099	<0.0099
GB-150	GB-150-4.5	4.5	11/9/2017	<0.00097	<0.00097	<0.048	<0.00097	<0.019	<0.00097	<0.00097	<0.00097	<0.00097	<0.0019	<0.0019	<0.0097	<0.0097
GB-150	GB-150-10.0	10	11/10/2017	<0.046	<0.046	<2.3	<0.046	<0.91	<0.046	<0.046	<0.046	<0.046	<0.091	<0.091	<0.46	<0.46
GB-150A	GB-150A-5.5	5.5	2/22/2018	<0.00097	<0.00097	<0.048	<0.00097	<0.019	<0.00097	<0.00097	<0.00097	<0.00097	<0.0019	<0.0019	<0.0097	<0.0097
GB-151	GB-151-2.0	2	11/8/2017	<0.00076	<0.00076	<0.038	<0.00076	<0.015	<0.00076	<0.00076	<0.00076	<0.00076	<0.0015	<0.0015	<0.0076	<0.0076
GB-151	GB-151-5.0	5	12/4/2017	<0.00087	<0.00087	<0.044	<0.00087	<0.017	<0.00087	<0.00087	<0.00087	<0.00087	<0.0017	<0.0017	<0.0087	<0.0087
GB-151	GB-151-9.5	9.5	12/5/2017	<4.5	<4.5	<220	<4.5	<89	<4.5	<4.5	<4.5	<4.5	<8.9	<8.9	<45	<45
GB-151	GB-151-15.0	15	12/5/2017	<3.7	<3.7	<190	<3.7	<74	<3.7	<3.7	<3.7	<3.7	<7.4	<7.4	<37	<37
GB-151	GB-151-19.0	19	12/5/2017	<4.1	<4.1	<200	<4.1	<81	<4.1	<4.1	**14**	<4.1	<8.1	<8.1	<41	<41
GB-151	GB-151-26.0	26	12/6/2017	<0.072	<0.072	<3.6	<0.072	<1.4	<0.072	<0.072	<0.072	<0.072	<0.14	<0.14	<0.72	<0.72
GB-152	GB-152-2.0	2	11/9/2017	<0.00077	<0.00077	<0.038	<0.00077	<0.015	<0.00077	<0.00077	<0.00077	<0.00077	<0.0015	<0.0015	<0.0077	<0.0077
GB-152	GB-152-4.5	4.5	11/21/2017	<0.00073	<0.00073	<0.036	<0.00073	<0.015	<0.00073	<0.00073	<0.00073	<0.00073	<0.0015	<0.0015	<0.0073	<0.0073
GB-152	GB-152-10.5	10.5	11/21/2017	<0.00081	<0.00081	<0.04	<0.00081	<0.016	<0.00081	<0.00081	<0.00081	<0.00081	<0.0016	<0.0016	<0.0081	<0.0081
GB-152	GB-152-13.5	13.5	11/21/2017	<13	<13	<650	<13	<260	<13	<13	<13	<13	<26	<26	<130	<130
GB-152	GB-152-16.5	16.5	11/21/2017	**0.064**	<0.045	<2.3	<0.045	<0.91	<0.045	<0.045	<0.045	<0.045	<0.091	<0.091	<0.45	<0.45
GB-153	GB-153-5.0	5	11/21/2017	<0.00097	<0.00097	<0.048	<0.00097	<0.019	<0.00097	<0.00097	**0.0011**	<0.00097	<0.0019	<0.0019	<0.0097	<0.0097
GB-153	GB-153-1.5	1.5	12/5/2017	<0.00088	<0.00088	<0.044	<0.00088	<0.018	<0.00088	<0.00088	<0.00088	<0.00088	<0.0018	<0.0018	<0.0088	<0.0088
GB-153	GB-153-9.0	9	12/5/2017	**0.16**	<0.16	<7.9	<0.16	<3.2	<0.16	<0.16	<0.16	<0.16	<0.32	<0.32	<1.6	<1.6
GB-153	GB-153-13.0	13	12/5/2017	<0.041	<0.041	<2	<0.041	<0.82	**0.15**	<0.041	<0.041	<0.041	<0.082	<0.082	<0.41	<0.41
GB-153	GB-153-18.0	18	12/5/2017	<53	<53	<2700	<53	<1100	<53	<53	<53	<53	<110	<110	<530	<530
GB-153	GB-153-20.0	20	12/5/2017	<0.76	<0.76	<38	<0.76	<15	<0.76	<0.76	<0.76	<0.76	<1.5	<1.5	<7.6	<7.6
GB-154	GB-154-2.0	2	11/16/2017	<0.00073	<0.00073	<0.037	<0.00073	<0.015	<0.00073	**0.00097**	<0.00073	<0.00073	<0.0015	<0.0015	<0.0073	<0.0073
GB-154	GB-154-5.0	5	11/16/2017	<0.0008	<0.0008	<0.04	<0.0008	<0.016	<0.0008	**0.00096**	<0.0008	<0.0008	<0.0016	<0.0016	<0.008	<0.008
GB-154	GB-154-9.5	9.5	12/4/2017	<0.00089	<0.00089	<0.045	<0.00089	<0.018	<0.00089	<0.00089	**0.0021**	<0.00089	<0.0018	<0.0018	<0.0089	<0.0089
GB-154	GB-154-19.0	19	12/6/2017	<0.094	<0.094	<4.7	<0.094	<1.9	<0.094	<0.094	<0.094	<0.094	<0.19	<0.19	<0.94	<0.94
GB-154	GB-154-23.0	23	12/6/2017	<0.38	<0.38	<19	<0.38	<7.5	<0.38	<0.38	<0.38	<0.38	<0.75	<0.75	<3.8	<3.8
GB-154A	GB-154A-9.5	9.5	1/5/2018	--	--	--	--	--	--	--	<0.046	--	--	--	--	--
GB-155	GB-155-2.0	2	11/16/2017	<0.00082	<0.00082	<0.041	<0.00082	<0.016	<0.00082	<0.00082	<0.00082	<0.00082	<0.0016	<0.0016	<0.0082	<0.0082
GB-155A	GB-155A-5.0	5	1/2/2018	<0.24	<0.24	<12	<0.24	<4.8	<0.24	<0.24	<0.24	<0.24	<0.48	<0.48	<2.4	<2.4
GB-155A	GB-155A-9.0	9	1/4/2018	<2.8	<2.8	<140	<2.8	<56	<2.8	<2.8	<2.8	<2.8	<5.6	<5.6	<28	<28
GB-155A	GB-155A-15.0	15	1/4/2018	--	--	--	--	--	--	--	<0.039	--	--	--	--	--
GB-155B	GB-155B-5.5	5.5	2/23/2018	<0.00087	<0.00087	<0.043	<0.00087	<0.017	<0.00087	<0.00087	<0.00087	<0.00087	<0.0017	<0.0017	<0.0087	<0.0087
GB-155C	GB-155C-3.0	3	2/23/2018	<0.00078	<0.00078	<0.039	<0.00078	<0.016	<0.00078	<0.00078	<0.00078	<0.00078	<0.0016	<0.0016	<0.0078	<0.0078
GB-156	GB-156-2.0	2	11/16/2017	<0.00083	<0.00083	<0.041	<0.00083	<0.017	<0.00083	<0.00083	<0.00083	<0.00083	<0.0017	<0.0017	<0.0083	<0.0083
GB-156A	GB-156A-5.0	5	1/2/2018	<0.00083	<0.00083	<0.041	<0.00083	<0.017	<0.00083	<0.00083	<0.00083	<0.00083	<0.0017	<0.0017	<0.0083	<0.0083
GB-156B	GB-156B-5.5	5.5	2/22/2018	<0.00091	<0.00091	<0.046	<0.00091	<0.018	<0.00091	<0.00091	<0.00091	<0.00091	<0.0018	<0.0018	<0.0091	<0.0091
GB-157	GB-157-10.0	10	1/8/2018	--	--	--	--	--	--	--	<0.00079	--	--	--	--	--
GB-158	GB-158-10.0	10	1/5/2018	--	--	--	--	--	--	--	<0.00076	--	--	--	--	--
GB-158	GB-158-15.0	15	1/5/2018	--	--	--	--	--	--	--	**0.0049**	--	--	--	--	--
GB-159	GB-159-8.5	8.5	1/4/2018	--	--	--	--	--	--	--	<0.00074	--	--	--	--	--
GB-161	GB-161-9.25	9.25	1/5/2018	--	--	--	--	--	--	--	**84**	--	--	--	--	--
GB-161	GB-161-15.0	15	1/5/2018	--	--	--	--	--	--	--	<0.76	--	--	--	--	--
GB-161	GB-161-17.5	17.5	1/5/2018	--	--	--	--	--	--	--	<0.047	--	--	--	--	--
GB-161	GB-161-20.0	20	1/5/2018	--	--	--	--	--	--	--	<0.00083	--	--	--	--	--
GB-162	GB-162-9.5	9.5	1/4/2018	--	--	--	--	--	--	--	**41**	--	--	--	--	--
GB-162	GB-162-15.0	15	1/4/2018	--	--	--	--	--	--	--	<0.81	--	--	--	--	--
GB-162	GB-162-19.5	19.5	1/4/2018	--	--	--	--	--	--	--	<0.17	--	--	--	--	--
GB-163	GB-163-9.0	9	1/3/2018	--	--	--	--	--	--	--	**0.0025**	--	--	--	--	--
GB-163	GB-163-14.0	14	1/3/2018	--	--	--	--	--	--	--	<4.4	--	--	--	--	--

TABLE A-1
ANALYTICAL DATA: VOLATILE ORGANIC COMPOUNDS IN SOIL
TANK FARM AREA, POTRERO POWER PLANT
SAN FRANCISCO, CALIFORNIA

Location ID	Sample ID	Bottom Depth (feet bgs)	Sample Date	Vinyl Chloride	Xylenes [a]
GB-144	GB-144-5.5	5.5	11/10/2017	<0.043	**0.315**
GB-144	GB-144-10.0	10	11/10/2017	<0.00076	<0.0015
GB-145	GB-145-2.0	2	11/14/2017	<0.00086	<0.0017
GB-145	GB-145-5.0	5	11/14/2017	<0.001	<0.002
GB-145	GB-145-7.0	7	11/14/2017	<0.001	<0.002
GB-145	GB-145-14.0	14	11/14/2017	<0.034	<0.068
GB-146	GB-146-1.0	1	12/5/2017	<0.066	<0.13
GB-146	GB-146-4.0	4	12/5/2017	<4.4	**32**
GB-146A	GB-146A-7.5	7.5	1/5/2018	--	<0.77
GB-147	GB-147-2.0	2	11/10/2017	<0.00098	<0.002
GB-147	GB-147-5.0	5	11/10/2017	<0.043	<0.086
GB-147	GB-147-9.25	9.25	11/10/2017	<0.45	**55**
GB-147	GB-147-12.5	12.5	11/10/2017	<2.1	**16**
GB-147	GB-147-15.0	15	11/10/2017	<0.2	**1.38**
GB-148	GB-148-2.0	2	11/7/2017	<0.00081	<0.0016
GB-148	GB-148-5.0	5	11/7/2017	<0.00086	**0.0059**
GB-148	GB-148-7.5	7.5	11/7/2017	<1.1	**40**
GB-148	GB-148-10.0	10	11/7/2017	<0.00094	<0.0019
GB-149	GB-149-2.0	2	11/14/2017	<0.00088	<0.0018
GB-149	GB-149-5.0	5	11/21/2017	<0.00075	<0.0015
GB-149	GB-149-10.5	10.5	11/21/2017	<0.05	<0.1
GB-149	GB-149-14.5	14.5	11/21/2017	<0.00079	<0.0016
GB-149A	GB-149A-5.5	5.5	2/22/2018	<0.00083	<0.0017
GB-150	GB-150-2.0	2	11/9/2017	<0.00099	<0.002
GB-150	GB-150-4.5	4.5	11/9/2017	<0.00097	<0.0019
GB-150	GB-150-10.0	10	11/10/2017	<0.046	<0.091
GB-150A	GB-150A-5.5	5.5	2/22/2018	<0.00097	<0.0019
GB-151	GB-151-2.0	2	11/8/2017	<0.00076	<0.0015
GB-151	GB-151-5.0	5	12/4/2017	<0.00087	<0.0017
GB-151	GB-151-9.5	9.5	12/5/2017	<4.5	**30**
GB-151	GB-151-15.0	15	12/5/2017	<3.7	<7.4
GB-151	GB-151-19.0	19	12/5/2017	<4.1	**25.6**
GB-151	GB-151-26.0	26	12/6/2017	<0.072	<0.14
GB-152	GB-152-2.0	2	11/9/2017	<0.00077	<0.0015
GB-152	GB-152-4.5	4.5	11/21/2017	<0.00073	<0.0015
GB-152	GB-152-10.5	10.5	11/21/2017	<0.00081	<0.0016
GB-152	GB-152-13.5	13.5	11/21/2017	<13	<26
GB-152	GB-152-16.5	16.5	11/21/2017	<0.045	<0.091
GB-153	GB-153-5.0	5	11/21/2017	<0.00097	<0.0019
GB-153	GB-153-1.5	1.5	12/5/2017	<0.00088	<0.0018
GB-153	GB-153-9.0	9	12/5/2017	<0.16	<0.32
GB-153	GB-153-13.0	13	12/5/2017	<0.041	<0.082
GB-153	GB-153-18.0	18	12/5/2017	<53	<110
GB-153	GB-153-20.0	20	12/5/2017	<0.76	<1.5
GB-154	GB-154-2.0	2	11/16/2017	<0.00073	<0.0015
GB-154	GB-154-5.0	5	11/16/2017	<0.0008	<0.0016
GB-154	GB-154-9.5	9.5	12/4/2017	<0.00089	<0.0018
GB-154	GB-154-19.0	19	12/6/2017	<0.094	**0.24**
GB-154	GB-154-23.0	23	12/6/2017	<0.38	<0.75
GB-154A	GB-154A-9.5	9.5	1/5/2018	--	<0.091
GB-155	GB-155-2.0	2	11/16/2017	<0.00082	<0.0016
GB-155A	GB-155A-5.0	5	1/2/2018	<0.24	<0.48
GB-155A	GB-155A-9.0	9	1/4/2018	<2.8	<5.6
GB-155A	GB-155A-15.0	15	1/4/2018	--	**0.044**
GB-155B	GB-155B-5.5	5.5	2/23/2018	<0.00087	<0.0017
GB-155C	GB-155C-3.0	3	2/23/2018	<0.00078	<0.0016
GB-156	GB-156-2.0	2	11/16/2017	<0.00083	<0.0017
GB-156A	GB-156A-5.0	5	1/2/2018	<0.00083	<0.0017
GB-156B	GB-156B-5.5	5.5	2/22/2018	<0.00091	<0.0018
GB-157	GB-157-10.0	10	1/8/2018	--	<0.0016
GB-158	GB-158-10.0	10	1/5/2018	--	<0.0015
GB-158	GB-158-15.0	15	1/5/2018	--	<0.002
GB-159	GB-159-8.5	8.5	1/4/2018	--	<0.0015
GB-161	GB-161-9.25	9.25	1/5/2018	--	**167**
GB-161	GB-161-15.0	15	1/5/2018	--	<1.5
GB-161	GB-161-17.5	17.5	1/5/2018	--	**0.058**
GB-161	GB-161-20.0	20	1/5/2018	--	<0.0017
GB-162	GB-162-9.5	9.5	1/4/2018	--	**62**
GB-162	GB-162-15.0	15	1/4/2018	--	<1.6
GB-162	GB-162-19.5	19.5	1/4/2018	--	<0.34
GB-163	GB-163-9.0	9	1/3/2018	--	**0.0134**
GB-163	GB-163-14.0	14	1/3/2018	--	<8.8

TABLE A-1
ANALYTICAL DATA: VOLATILE ORGANIC COMPOUNDS IN SOIL
TANK FARM AREA, POTRERO POWER PLANT
SAN FRANCISCO, CALIFORNIA

Location ID	Sample ID	Bottom Depth (feet bgs)	Sample Date	Sample Type	1,1,1,2-Tetrachloro-ethane	1,1,1-Trichloro-ethane	1,1,2,2-Tetrachloro-ethane	1,1,2-Trichloro-ethane	1,1,2-Trichloro-trifluoroethane (Freon 113)	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropane	1,1-Dichloropropene	1,2,3-Trichloro-benzene	1,2,3-Trichloro-propane	1,2,4-Trichloro-benzene	1,2,4-Trimethyl-benzene
GB-163	GB-163-23.0	23	1/3/2018	P	--	--	--	--	--	--	--	--	--	--	--	--	--
GB-163	GB-163-28.5	28.5	1/3/2018	P	--	--	--	--	--	--	--	--	--	--	--	--	--
GB-164	GB-164-7.5	7.5	1/3/2018	P	--	--	--	--	--	--	--	--	--	--	--	--	--
GB-166	GB-166-5.5	5.5	1/2/2018	P	--	--	--	--	--	--	--	--	--	--	--	--	--
GB-166	GB-166-8.75	8.75	1/3/2018	P	--	--	--	--	--	--	--	--	--	--	--	--	--
GB-166	GB-166-14.5	14.5	1/3/2018	P	--	--	--	--	--	--	--	--	--	--	--	--	--
GB-166	GB-166-20.5	20.5	1/3/2018	P	--	--	--	--	--	--	--	--	--	--	--	--	--
GB-167	GB-167-5.5	5.5	1/12/2018	P	--	--	--	--	--	--	--	--	--	--	--	--	--
GB-167	GB-167-9.0	9	1/12/2018	P	--	--	--	--	--	--	--	--	--	--	--	--	--
GB-167	GB-167-14.75	14.75	1/12/2018	P	--	--	--	--	--	--	--	--	--	--	--	--	--
GB-167	GB-167-17.0	17	1/12/2018	P	--	--	--	--	--	--	--	--	--	--	--	--	--
GB-167	GB-167-19.75	19.78000069	1/12/2018	P	--	--	--	--	--	--	--	--	--	--	--	--	--
GB-170	GB-170-6.0	6	1/11/2018	P	--	--	--	--	--	--	--	--	--	--	--	--	--
GB-170	GB-170-11.5	11.5	1/11/2018	P	--	--	--	--	--	--	--	--	--	--	--	--	--
GB-174	GB-174-2.0	2	2/21/2018	P	<0.00081	<0.00081	<0.0016	<0.00081	<0.0081	<0.00081	<0.00081	--	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016
GB-174	GB-174-5.5	5.5	2/21/2018	P	<0.00086	<0.00086	<0.0017	<0.00086	<0.0086	<0.00086	<0.00086	--	<0.0017	<0.0017	<0.0017	<0.0017	**0.0022**
MW-POT-10	MW-POT-10-6	6.5	2/27/1991	P	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-POT-10	MW-POT-10-10	10.5	2/27/1991	P	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-POT-11	MW-POT-11-2	2.5	3/5/1991	P	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-POT-11	MW-POT-11-6	6.5	3/5/1991	P	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-POT-12	MW-POT-12-3	3.5	2/26/1991	P	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-POT-12	MW-POT-12-5.5	6	2/26/1991	P	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-POT-12	MW-POT-12-10.5	11	2/26/1991	P	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-POT-12	MW-POT-12-15.5	16	2/26/1991	P	--	--	--	--	--	--	--	--	--	--	--	--	--
PL3.5W	PL3.5W-2062	5	4/17/1990	P	--	--	--	--	--	--	--	--	--	--	--	<1	--
PL4C	PL4C-2063	5	4/17/1990	P	--	--	--	--	--	--	--	--	--	--	--	<2	--
PL4N	PL4N-2064	5	4/23/1990	P	--	--	--	--	--	--	--	--	--	--	--	<0.1	--
PL5E	PL5E-2065	5	4/17/1990	P	--	--	--	--	--	--	--	--	--	--	--	<1	--
S-1	S-1-1	2	11/10/1989	P	--	--	--	--	--	--	--	--	--	--	--	--	--
S-1	S-1-2	2	11/10/1989	FD	--	--	--	--	--	--	--	--	--	--	--	--	--
S-1.5	S-1.5-1	2	11/13/1989	P	--	--	--	--	--	--	--	--	--	--	--	--	--
S-2	S-2-1	2.5	11/10/1989	P	--	--	--	--	--	--	--	--	--	--	--	--	--
S-2	S-2-2	3	11/10/1989	P	--	--	--	--	--	--	--	--	--	--	--	--	--
S-2	S-2-3	5	11/10/1989	P	--	--	--	--	--	--	--	--	--	--	--	--	--
S-2	S-2-4	10	11/10/1989	P	--	--	--	--	--	--	--	--	--	--	--	--	--
S-3	S-3-1	3	11/10/1989	P	--	--	--	--	--	--	--	--	--	--	--	--	--
S-3	S-3-2	5	11/10/1989	P	--	--	--	--	--	--	--	--	--	--	--	--	--
S-3	S-3-3	7	11/10/1989	P	--	--	--	--	--	--	--	--	--	--	--	--	--
S-3	S-3-4	8	11/10/1989	P	--	--	--	--	--	--	--	--	--	--	--	--	--
TB3-001	TB03-001@0-1	1	11/25/1997	P	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.005	<0.005
TB3-001	TB03-001@5-6	6	11/25/1997	P	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.005	<0.005
TB3-002	TB03-002@0-1	1	11/24/1997	P	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.005	<0.005
TB3-002	TB03-002@0-1D	1	11/24/1997	FD	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.005	<0.005
TB3-002	TB03-002@6-7	7	11/24/1997	P	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.005	<0.005
TB3-002	TB03-002@18-19	19	11/24/1997	P	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.005	<0.005
TB3-003	TB03-003@0-1	1	11/18/1997	P	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.005	<0.005
TB3-003	TB03-003@5-6	6	11/24/1997	P	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.005	<0.005
TB3-003	TB03-003@9-10	10	11/24/1997	P	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.005	<0.005
TB3-007	TB03-007@0-1	1	11/24/1997	P	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.005	<0.005
TB3-007	TB03-007@6-8	8	11/24/1997	P	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.005	<0.005
TB3-007	TB03-007@10-11	11	11/24/1997	P	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.005	<0.005
TB3-008	TB03-008@0-1	1	11/25/1997	P	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.005	<0.005
TB3-008	TB03-008@5-6	6	11/25/1997	P	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.005	<0.005
TB3-008	TB03-008@10-11	11	11/25/1997	P	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.005	<0.005
TB3-009	TB03-009@0-1	1	11/25/1997	P	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.005	<0.005
TB3-009	TB03-009@6-8	8	11/25/1997	P	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.005	<0.005
TB3-009	TB03-009@6-8D	8	11/25/1997	FD	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.005	<0.005
TB3-012	TB0312@25-26	26	2/27/1998	P	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.005	<0.005
TB3-012	TB0312@25-26D	26	2/27/1998	FD	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.005	<0.005
TB3-012	TB0312@29.5-30	30	2/27/1998	P	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.005	<0.005
TB3-012	TB0312@33-34	34	2/27/1998	P	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.005	<0.005
TFSS-01	TFSS-01	0	12/8/2017	P	<0.0008	<0.0008	<0.0016	<0.0008	<0.008	<0.0008	<0.0008	--	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016

TABLE A-1
ANALYTICAL DATA: VOLATILE ORGANIC COMPOUNDS IN SOIL
TANK FARM AREA, POTRERO POWER PLANT
SAN FRANCISCO, CALIFORNIA

Location ID	Sample ID	Bottom Depth (feet bgs)	Sample Date	1,2-Dibromo-3-Chloropropane (DBCP)	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethyl-benzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,3-Dichloropropene	1,4-Dichlorobenzene	1-Methylethyl-benzene A
GB-163	GB-163-23.0	23	1/3/2018	--	--	--	--	--	--	--	--	--	--	--
GB-163	GB-163-28.5	28.5	1/3/2018	--	--	--	--	--	--	--	--	--	--	--
GB-164	GB-164-7.5	7.5	1/3/2018	--	--	--	--	--	--	--	--	--	--	--
GB-166	GB-166-5.5	5.5	1/2/2018	--	--	--	--	--	--	--	--	--	--	--
GB-166	GB-166-8.75	8.75	1/3/2018	--	--	--	--	--	--	--	--	--	--	--
GB-166	GB-166-14.5	14.5	1/3/2018	--	--	--	--	--	--	--	--	--	--	--
GB-166	GB-166-20.5	20.5	1/3/2018	--	--	--	--	--	--	--	--	--	--	--
GB-167	GB-167-5.5	5.5	1/12/2018	--	--	--	--	--	--	--	--	--	--	--
GB-167	GB-167-9.0	9	1/12/2018	--	--	--	--	--	--	--	--	--	--	--
GB-167	GB-167-14.75	14.75	1/12/2018	--	--	--	--	--	--	--	--	--	--	--
GB-167	GB-167-17.0	17	1/12/2018	--	--	--	--	--	--	--	--	--	--	--
GB-167	GB-167-19.75	19.78000069	1/12/2018	--	--	--	--	--	--	--	--	--	--	--
GB-170	GB-170-6.0	6	1/11/2018	--	--	--	--	--	--	--	--	--	--	--
GB-170	GB-170-11.5	11.5	1/11/2018	--	--	--	--	--	--	--	--	--	--	--
GB-174	GB-174-2.0	2	2/21/2018	<0.004	<0.00081	<0.00081	<0.00081	<0.00081	<0.0016	<0.00081	<0.00081	--	<0.00081	--
GB-174	GB-174-5.5	5.5	2/21/2018	<0.0043	<0.00086	<0.00086	<0.00086	<0.00086	<0.0017	<0.00086	<0.00086	--	<0.00086	--
MW-POT-10	MW-POT-10-6	6.5	2/27/1991	--	--	<0.0011	--	--	--	<0.00077	--	--	<0.00077	--
MW-POT-10	MW-POT-10-10	10.5	2/27/1991	--	--	<0.0011	--	--	--	<0.00078	--	--	<0.00078	--
MW-POT-11	MW-POT-11-2	2.5	3/5/1991	--	--	<0.0011	--	--	--	<0.00079	--	--	**0.00079 U**	--
MW-POT-11	MW-POT-11-6	6.5	3/5/1991	--	--	<0.0011	--	--	--	<0.0008	--	--	<0.0008	--
MW-POT-12	MW-POT-12-3	3.5	2/26/1991	--	--	<0.0011	--	--	--	<0.00078	--	--	<0.00078	--
MW-POT-12	MW-POT-12-5.5	6	2/26/1991	--	--	<0.0058	--	--	--	<0.0041	--	--	<0.0041	--
MW-POT-12	MW-POT-12-10.5	11	2/26/1991	--	--	<0.0012	--	--	--	<0.0012	--	--	<0.0012	--
MW-POT-12	MW-POT-12-15.5	16	2/26/1991	--	--	<0.0012	--	--	--	<0.0012	--	--	<0.0012	--
PL3.5W	PL3.5W-2062	5	4/17/1990	--	--	<1	--	--	--	<1	--	--	<1	--
PL4C	PL4C-2063	5	4/17/1990	--	--	<2	--	--	--	<2	--	--	<2	--
PL4N	PL4N-2064	5	4/23/1990	--	--	<0.1	--	--	--	<0.1	--	--	<0.1	--
PL5E	PL5E-2065	5	4/17/1990	--	--	<1	--	--	--	<1	--	--	<1	--
S-1	S-1-1	2	11/10/1989	--	--	<0.001	--	--	--	<0.001	--	--	<0.001	--
S-1	S-1-2	2	11/10/1989	--	--	<0.001	--	--	--	<0.001	--	--	<0.001	--
S-1.5	S-1.5-1	2	11/13/1989	--	--	<0.005	--	--	--	<0.005	--	--	<0.005	--
S-2	S-2-1	2.5	11/10/1989	--	--	<0.001	--	--	--	<0.001	--	--	<0.001	--
S-2	S-2-2	3	11/10/1989	--	--	<0.001	--	--	--	<0.001	--	--	<0.001	--
S-2	S-2-3	5	11/10/1989	--	--	<0.01	--	--	--	<0.01	--	--	<0.01	--
S-2	S-2-4	10	11/10/1989	--	--	<0.001	--	--	--	<0.001	--	--	<0.001	--
S-3	S-3-1	3	11/10/1989	--	--	<0.001	--	--	--	<0.001	--	--	<0.001	--
S-3	S-3-2	5	11/10/1989	--	--	<0.001	--	--	--	<0.001	--	--	<0.001	--
S-3	S-3-3	7	11/10/1989	--	--	<0.005	--	--	--	<0.005	--	--	<0.005	--
S-3	S-3-4	8	11/10/1989	--	--	<0.01	--	--	--	<0.01	--	--	<0.01	--
TB3-001	TB03-001@0-1	1	11/25/1997	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.01	--	<0.005	<0.01	<0.005
TB3-001	TB03-001@5-6	6	11/25/1997	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.01	--	<0.005	<0.01	<0.005
TB3-002	TB03-002@0-1	1	11/24/1997	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.01	--	<0.005	<0.01	<0.005
TB3-002	TB03-002@0-1D	1	11/24/1997	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.01	--	<0.005	<0.01	<0.005
TB3-002	TB03-002@6-7	7	11/24/1997	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.01	--	<0.005	<0.01	<0.005
TB3-002	TB03-002@18-19	19	11/24/1997	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.01	--	<0.005	<0.01	<0.005
TB3-003	TB03-003@0-1	1	11/18/1997	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.01	--	<0.005	<0.01	<0.005
TB3-003	TB03-003@5-6	6	11/24/1997	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.01	--	<0.005	<0.01	<0.005
TB3-003	TB03-003@9-10	10	11/24/1997	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.01	--	<0.005	<0.01	<0.005
TB3-007	TB03-007@0-1	1	11/24/1997	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.01	--	<0.005	<0.01	<0.005
TB3-007	TB03-007@6-8	8	11/24/1997	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.01	--	<0.005	<0.01	<0.005
TB3-007	TB03-007@10-11	11	11/24/1997	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.01	--	<0.005	<0.01	<0.005
TB3-008	TB03-008@0-1	1	11/25/1997	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.01	--	<0.005	<0.01	<0.005
TB3-008	TB03-008@5-6	6	11/25/1997	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.01	--	<0.005	<0.01	<0.005
TB3-008	TB03-008@10-11	11	11/25/1997	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.01	--	<0.005	<0.01	<0.005
TB3-009	TB03-009@0-1	1	11/25/1997	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.01	--	<0.005	<0.01	<0.005
TB3-009	TB03-009@6-8	8	11/25/1997	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.01	--	<0.005	<0.01	<0.005
TB3-009	TB03-009@6-8D	8	11/25/1997	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.01	--	<0.005	<0.01	<0.005
TB3-012	TB0312@25-26	26	2/27/1998	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.01	--	<0.005	<0.01	<0.005
TB3-012	TB0312@25-26D	26	2/27/1998	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.01	--	<0.005	<0.01	<0.005
TB3-012	TB0312@29.5-30	30	2/27/1998	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.01	--	<0.005	<0.01	<0.005
TB3-012	TB0312@33-34	34	2/27/1998	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.01	--	<0.005	<0.01	<0.005
TFSS-01	TFSS-01	0	12/8/2017	<0.004	<0.0008	<0.0008	<0.0008	<0.0008	<0.0016	<0.0008	<0.0008	--	<0.0008	--

TABLE A-1
ANALYTICAL DATA: VOLATILE ORGANIC COMPOUNDS IN SOIL
TANK FARM AREA, POTRERO POWER PLANT
SAN FRANCISCO, CALIFORNIA

Location ID	Sample ID	Bottom Depth (feet bgs)	Sample Date	2,2-Dichloropropane	2-Butanone (MEK)	2-Chlorotoluene	2-Hexanone (Methyl butyl ketone)	4-Chlorotoluene	4-Methyl-2-pentanone (MIBK)	Acetone	Benzene	Bromobenzene	Bromo-dichloromethane	Bromoform	Bromomethane	Carbon Disulfide
GB-163	GB-163-23.0	23	1/3/2018	--	--	--	--	--	--	--	**6.6**	--	--	--	--	--
GB-163	GB-163-28.5	28.5	1/3/2018	--	--	--	--	--	--	--	<0.043	--	--	--	--	--
GB-164	GB-164-7.5	7.5	1/3/2018	--	--	--	--	--	--	--	**28**	--	--	--	--	--
GB-166	GB-166-5.5	5.5	1/2/2018	--	--	--	--	--	--	--	<0.00081	--	--	--	--	--
GB-166	GB-166-8.75	8.75	1/3/2018	--	--	--	--	--	--	--	<0.43	--	--	--	--	--
GB-166	GB-166-14.5	14.5	1/3/2018	--	--	--	--	--	--	--	<0.39	--	--	--	--	--
GB-166	GB-166-20.5	20.5	1/3/2018	--	--	--	--	--	--	--	**0.0023**	--	--	--	--	--
GB-167	GB-167-5.5	5.5	1/12/2018	--	--	--	--	--	--	--	<0.00078	--	--	--	--	--
GB-167	GB-167-9.0	9	1/12/2018	--	--	--	--	--	--	--	<0.97	--	--	--	--	--
GB-167	GB-167-14.75	14.75	1/12/2018	--	--	--	--	--	--	--	<0.036	--	--	--	--	--
GB-167	GB-167-17.0	17	1/12/2018	--	--	--	--	--	--	--	**8.1**	--	--	--	--	--
GB-167	GB-167-19.75	19.78000069	1/12/2018	--	--	--	--	--	--	--	**0.11**	--	--	--	--	--
GB-170	GB-170-6.0	6	1/11/2018	--	--	--	--	--	--	--	<2.5	--	--	--	--	--
GB-170	GB-170-11.5	11.5	1/11/2018	--	--	--	--	--	--	--	<0.046	--	--	--	--	--
GB-174	GB-174-2.0	2	2/21/2018	<0.004	<0.016	<0.00081	<0.016	<0.00081	<0.016	<0.04	**0.0045**	<0.00081	<0.00081	<0.004	<0.016	<0.0081
GB-174	GB-174-5.5	5.5	2/21/2018	<0.0043	<0.017	<0.00086	<0.017	<0.00086	<0.017	<0.043	<0.00086	<0.00086	<0.00086	<0.0043	<0.017	**0.014**
MW-POT-10	MW-POT-10-6	6.5	2/27/1991	--	--	--	--	--	--	--	**0.033**	--	--	--	--	--
MW-POT-10	MW-POT-10-10	10.5	2/27/1991	--	--	--	--	--	--	--	<0.00033	--	--	--	--	--
MW-POT-11	MW-POT-11-2	2.5	3/5/1991	--	--	--	--	--	--	--	<0.00033	--	--	--	--	--
MW-POT-11	MW-POT-11-6	6.5	3/5/1991	--	--	--	--	--	--	--	<0.00034	--	--	--	--	--
MW-POT-12	MW-POT-12-3	3.5	2/26/1991	--	--	--	--	--	--	--	<0.00033	--	--	--	--	--
MW-POT-12	MW-POT-12-5.5	6	2/26/1991	--	--	--	--	--	--	--	<0.0017	--	--	--	--	--
MW-POT-12	MW-POT-12-10.5	11	2/26/1991	--	--	--	--	--	--	--	<0.0012	--	--	--	--	--
MW-POT-12	MW-POT-12-15.5	16	2/26/1991	--	--	--	--	--	--	--	<0.0012	--	--	--	--	--
PL3.5W	PL3.5W-2062	5	4/17/1990	--	--	<1	--	--	--	--	<0.005	--	--	--	--	--
PL4C	PL4C-2063	5	4/17/1990	--	--	--	--	--	--	--	<0.005	--	--	--	--	--
PL4N	PL4N-2064	5	4/23/1990	--	--	--	--	--	--	--	**0.0061**	--	--	--	--	--
PL5E	PL5E-2065	5	4/17/1990	--	--	--	--	--	--	--	**0.0072**	--	--	--	--	--
S-1	S-1-1	2	11/10/1989	--	--	--	--	--	--	--	<0.001	--	--	--	--	--
S-1	S-1-2	2	11/10/1989	--	--	--	--	--	--	--	<0.001	--	--	--	--	--
S-1.5	S-1.5-1	2	11/13/1989	--	--	--	--	--	--	--	<0.001	--	--	--	--	--
S-2	S-2-1	2.5	11/10/1989	--	--	--	--	--	--	--	<0.001	--	--	--	--	--
S-2	S-2-2	3	11/10/1989	--	--	--	--	--	--	--	<0.001	--	--	--	--	--
S-2	S-2-3	5	11/10/1989	--	--	--	--	--	--	--	<0.01	--	--	--	--	--
S-2	S-2-4	10	11/10/1989	--	--	--	--	--	--	--	<0.001	--	--	--	--	--
S-3	S-3-1	3	11/10/1989	--	--	--	--	--	--	--	<0.001	--	--	--	--	--
S-3	S-3-2	5	11/10/1989	--	--	--	--	--	--	--	<0.001	--	--	--	--	--
S-3	S-3-3	7	11/10/1989	--	--	--	--	--	--	--	<0.005	--	--	--	--	--
S-3	S-3-4	8	11/10/1989	--	--	--	--	--	--	--	<0.01	--	--	--	--	--
TB3-001	TB03-001@0-1	1	11/25/1997	<0.005	--	<0.005	--	<0.005	--	--	<0.005	<0.005	<0.005	<0.005	<0.01	--
TB3-001	TB03-001@5-6	6	11/25/1997	<0.005	--	<0.005	--	<0.005	--	--	<0.005	<0.005	<0.005	<0.005	<0.01	--
TB3-002	TB03-002@0-1	1	11/24/1997	<0.005	--	<0.005	--	<0.005	--	--	<0.005	<0.005	<0.005	<0.005	<0.01	--
TB3-002	TB03-002@0-1D	1	11/24/1997	<0.005	--	<0.005	--	<0.005	--	--	<0.005	<0.005	<0.005	<0.005	<0.01	--
TB3-002	TB03-002@6-7	7	11/24/1997	<0.005	--	<0.005	--	<0.005	--	--	<0.005	<0.005	<0.005	<0.005	<0.01	--
TB3-002	TB03-002@18-19	19	11/24/1997	<0.005	--	<0.005	--	<0.005	--	--	<0.005	<0.005	<0.005	<0.005	<0.01	--
TB3-003	TB03-003@0-1	1	11/18/1997	<0.005	--	<0.005	--	<0.005	--	--	<0.005	<0.005	<0.005	<0.005	<0.01	--
TB3-003	TB03-003@5-6	6	11/24/1997	<0.005	--	<0.005	--	<0.005	--	--	<0.005	<0.005	<0.005	<0.005	<0.01	--
TB3-003	TB03-003@9-10	10	11/24/1997	<0.005	--	<0.005	--	<0.005	--	--	<0.005	<0.005	<0.005	<0.005	<0.01	--
TB3-007	TB03-007@0-1	1	11/24/1997	<0.005	--	<0.005	--	<0.005	--	--	<0.005	<0.005	<0.005	<0.005	<0.01	--
TB3-007	TB03-007@6-8	8	11/24/1997	<0.005	--	<0.005	--	<0.005	--	--	<0.005	<0.005	<0.005	<0.005	<0.01	--
TB3-007	TB03-007@10-11	11	11/24/1997	<0.005	--	<0.005	--	<0.005	--	--	<0.005	<0.005	<0.005	<0.005	<0.01	--
TB3-008	TB03-008@0-1	1	11/25/1997	<0.005	--	<0.005	--	<0.005	--	--	<0.005	<0.005	<0.005	<0.005	<0.01	--
TB3-008	TB03-008@5-6	6	11/25/1997	<0.005	--	<0.005	--	<0.005	--	--	<0.005	<0.005	<0.005	<0.005	<0.01	--
TB3-008	TB03-008@10-11	11	11/25/1997	<0.25	--	<0.005	--	<0.005	--	--	<0.005	<0.005	<0.005	<0.005	<0.01	--
TB3-009	TB03-009@0-1	1	11/25/1997	<0.005	--	<0.005	--	<0.005	--	--	<0.005	<0.005	<0.005	<0.005	<0.01	--
TB3-009	TB03-009@6-8	8	11/25/1997	<0.005	--	<0.005	--	<0.005	--	--	<0.005	<0.005	<0.005	<0.005	<0.01	--
TB3-009	TB03-009@6-8D	8	11/25/1997	<0.005	--	<0.005	--	<0.005	--	--	<0.005	<0.005	<0.005	<0.005	<0.01	--
TB3-012	TB0312@25-26	26	2/27/1998	<0.005	--	<0.005	--	<0.005	--	--	**0.012**	<0.005	<0.005	<0.005	<0.01	--
TB3-012	TB0312@25-26D	26	2/27/1998	<0.005	--	<0.005	--	<0.005	--	--	**0.013**	<0.005	<0.005	<0.005	<0.01	--
TB3-012	TB0312@29.5-30	30	2/27/1998	<0.005	--	<0.005	--	<0.005	--	--	**0.0072**	<0.005	<0.005	<0.005	<0.01	--
TB3-012	TB0312@33-34	34	2/27/1998	<0.005	--	<0.005	--	<0.005	--	--	**0.0077**	<0.005	<0.005	<0.005	<0.01	--
TFSS-01	TFSS-01	0	12/8/2017	<0.004	<0.016	<0.0008	<0.016	<0.0008	<0.016	**0.043**	<0.0008	<0.0008	<0.0008	<0.004	<0.016	<0.008

TABLE A-1
ANALYTICAL DATA: VOLATILE ORGANIC COMPOUNDS IN SOIL
TANK FARM AREA, POTRERO POWER PLANT
SAN FRANCISCO, CALIFORNIA

Location ID	Sample ID	Bottom Depth (feet bgs)	Sample Date	Carbon Tetrachloride	Chlorobenzene	Chloro-bromomethane	Chloro-dibromomethane	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Cyclohexanone	Cumene	Dibromomethane
GB-163	GB-163-23.0	23	1/3/2018	--	--	--	--	--	--	--	--	--	--	--	--
GB-163	GB-163-28.5	28.5	1/3/2018	--	--	--	--	--	--	--	--	--	--	--	--
GB-164	GB-164-7.5	7.5	1/3/2018	--	--	--	--	--	--	--	--	--	--	--	--
GB-166	GB-166-5.5	5.5	1/2/2018	--	--	--	--	--	--	--	--	--	--	--	--
GB-166	GB-166-8.75	8.75	1/3/2018	--	--	--	--	--	--	--	--	--	--	--	--
GB-166	GB-166-14.5	14.5	1/3/2018	--	--	--	--	--	--	--	--	--	--	--	--
GB-166	GB-166-20.5	20.5	1/3/2018	--	--	--	--	--	--	--	--	--	--	--	--
GB-167	GB-167-5.5	5.5	1/12/2018	--	--	--	--	--	--	--	--	--	--	--	--
GB-167	GB-167-9.0	9	1/12/2018	--	--	--	--	--	--	--	--	--	--	--	--
GB-167	GB-167-14.75	14.75	1/12/2018	--	--	--	--	--	--	--	--	--	--	--	--
GB-167	GB-167-17.0	17	1/12/2018	--	--	--	--	--	--	--	--	--	--	--	--
GB-167	GB-167-19.75	19.78000069	1/12/2018	--	--	--	--	--	--	--	--	--	--	--	--
GB-170	GB-170-6.0	6	1/11/2018	--	--	--	--	--	--	--	--	--	--	--	--
GB-170	GB-170-11.5	11.5	1/11/2018	--	--	--	--	--	--	--	--	--	--	--	--
GB-174	GB-174-2.0	2	2/21/2018	<0.00081	<0.00081	<0.0016	<0.0016	<0.0016	<0.00081	<0.016	<0.00081	<0.00081	<0.04	<0.00081	<0.00081
GB-174	GB-174-5.5	5.5	2/21/2018	<0.00086	**0.0063**	<0.0017	<0.0017	<0.0017	<0.00086	<0.017	<0.00086	<0.00086	<0.043	<0.00086	<0.00086
MW-POT-10	MW-POT-10-6	6.5	2/27/1991	--	<0.00033	--	--	--	--	--	--	--	--	--	--
MW-POT-10	MW-POT-10-10	10.5	2/27/1991	--	<0.00033	--	--	--	--	--	--	--	--	--	--
MW-POT-11	MW-POT-11-2	2.5	3/5/1991	--	<0.00033	--	--	--	--	--	--	--	--	--	--
MW-POT-11	MW-POT-11-6	6.5	3/5/1991	--	<0.00034	--	--	--	--	--	--	--	--	--	--
MW-POT-12	MW-POT-12-3	3.5	2/26/1991	--	<0.00033	--	--	--	--	--	--	--	--	--	--
MW-POT-12	MW-POT-12-5.5	6	2/26/1991	--	<0.0017	--	--	--	--	--	--	--	--	--	--
MW-POT-12	MW-POT-12-10.5	11	2/26/1991	--	<0.0012	--	--	--	--	--	--	--	--	--	--
MW-POT-12	MW-POT-12-15.5	16	2/26/1991	--	<0.0012	--	--	--	--	--	--	--	--	--	--
PL3.5W	PL3.5W-2062	5	4/17/1990	--	--	--	--	--	--	--	--	--	--	--	--
PL4C	PL4C-2063	5	4/17/1990	--	--	--	--	--	--	--	--	--	--	--	--
PL4N	PL4N-2064	5	4/23/1990	--	--	--	--	--	--	--	--	--	--	--	--
PL5E	PL5E-2065	5	4/17/1990	--	--	--	--	--	--	--	--	--	--	--	--
S-1	S-1-1	2	11/10/1989	--	<0.001	--	--	--	--	--	--	--	--	--	--
S-1	S-1-2	2	11/10/1989	--	<0.001	--	--	--	--	--	--	--	--	--	--
S-1.5	S-1.5-1	2	11/13/1989	--	<0.005	--	--	--	--	--	--	--	--	--	--
S-2	S-2-1	2.5	11/10/1989	--	<0.001	--	--	--	--	--	--	--	--	--	--
S-2	S-2-2	3	11/10/1989	--	<0.001	--	--	--	--	--	--	--	--	--	--
S-2	S-2-3	5	11/10/1989	--	<0.01	--	--	--	--	--	--	--	--	--	--
S-2	S-2-4	10	11/10/1989	--	<0.001	--	--	--	--	--	--	--	--	--	--
S-3	S-3-1	3	11/10/1989	--	<0.001	--	--	--	--	--	--	--	--	--	--
S-3	S-3-2	5	11/10/1989	--	<0.001	--	--	--	--	--	--	--	--	--	--
S-3	S-3-3	7	11/10/1989	--	<0.005	--	--	--	--	--	--	--	--	--	--
S-3	S-3-4	8	11/10/1989	--	<0.01	--	--	--	--	--	--	--	--	--	--
TB3-001	TB03-001@0-1	1	11/25/1997	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	--	--	<0.005	<0.005
TB3-001	TB03-001@5-6	6	11/25/1997	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	--	--	<0.005	<0.005
TB3-002	TB03-002@0-1	1	11/24/1997	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	--	--	<0.005	<0.005
TB3-002	TB03-002@0-1D	1	11/24/1997	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	--	--	<0.005	<0.005
TB3-002	TB03-002@6-7	7	11/24/1997	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	--	--	<0.005	<0.005
TB3-002	TB03-002@18-19	19	11/24/1997	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	--	--	<0.005	<0.005
TB3-003	TB03-003@0-1	1	11/18/1997	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	--	--	<0.005	<0.005
TB3-003	TB03-003@5-6	6	11/24/1997	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	--	--	<0.005	<0.005
TB3-003	TB03-003@9-10	10	11/24/1997	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	--	--	**0.00522**	<0.005
TB3-007	TB03-007@0-1	1	11/24/1997	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	--	--	<0.005	<0.005
TB3-007	TB03-007@6-8	8	11/24/1997	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	--	--	<0.005	<0.005
TB3-007	TB03-007@10-11	11	11/24/1997	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	--	--	<0.005	<0.005
TB3-008	TB03-008@0-1	1	11/25/1997	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	--	--	<0.005	<0.005
TB3-008	TB03-008@5-6	6	11/25/1997	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	--	--	<0.005	<0.005
TB3-008	TB03-008@10-11	11	11/25/1997	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	--	--	<0.25	<0.25
TB3-009	TB03-009@0-1	1	11/25/1997	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	--	--	<0.005	<0.005
TB3-009	TB03-009@6-8	8	11/25/1997	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	--	--	<0.005	<0.005
TB3-009	TB03-009@6-8D	8	11/25/1997	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	--	--	<0.005	<0.005
TB3-012	TB0312@25-26	26	2/27/1998	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	--	--	<0.005	<0.005
TB3-012	TB0312@25-26D	26	2/27/1998	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	--	--	<0.005	<0.005
TB3-012	TB0312@29.5-30	30	2/27/1998	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	--	--	<0.005	<0.005
TB3-012	TB0312@33-34	34	2/27/1998	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	--	--	<0.005	<0.005
TFSS-01	TFSS-01	0	12/8/2017	<0.0008	<0.0008	<0.0016	<0.0016	<0.0016	<0.0008	<0.016	<0.0008	<0.0008	<0.04	<0.0008	<0.0008

TABLE A-1
ANALYTICAL DATA: VOLATILE ORGANIC COMPOUNDS IN SOIL
TANK FARM AREA, POTRERO POWER PLANT
SAN FRANCISCO, CALIFORNIA

Location ID	Sample ID	Bottom Depth (feet bgs)	Sample Date	Cymene	Dichloro-difluoromethane (Freon 12)	Ethanol	Ethyl tert-butyl ether (ETBE)	Ethylbenzene	Hexachloro-butadiene	Isopropyl ether	m,p-Xylenes	Methyl tert-butyl ether (MTBE)	Methylene chloride	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene
GB-163	GB-163-23.0	23	1/3/2018	--	--	--	--	**6.3**	--	--	**2.3**	--	--	--	--	--	**1.8**
GB-163	GB-163-28.5	28.5	1/3/2018	--	--	--	--	<0.043	--	--	<0.087	--	--	--	--	--	<0.043
GB-164	GB-164-7.5	7.5	1/3/2018	--	--	--	--	**6.4**	--	--	**3.5**	--	--	--	--	--	**1.6**
GB-166	GB-166-5.5	5.5	1/2/2018	--	--	--	--	<0.00081	--	--	<0.0016	--	--	--	--	--	<0.00081
GB-166	GB-166-8.75	8.75	1/3/2018	--	--	--	--	<0.43	--	--	<0.87	--	--	--	--	--	<0.43
GB-166	GB-166-14.5	14.5	1/3/2018	--	--	--	--	<0.39	--	--	<0.79	--	--	--	--	--	<0.39
GB-166	GB-166-20.5	20.5	1/3/2018	--	--	--	--	<0.001	--	--	<0.002	--	--	--	--	--	<0.001
GB-167	GB-167-5.5	5.5	1/12/2018	--	--	--	--	<0.00078	--	--	**0.0024**	--	--	--	--	--	**0.0011**
GB-167	GB-167-9.0	9	1/12/2018	--	--	--	--	**1.4**	--	--	**2.2**	--	--	--	--	--	**1.6**
GB-167	GB-167-14.75	14.75	1/12/2018	--	--	--	--	<0.036	--	--	**0.18**	--	--	--	--	--	<0.036
GB-167	GB-167-17.0	17	1/12/2018	--	--	--	--	**9.7**	--	--	**30**	--	--	--	--	--	**30**
GB-167	GB-167-19.75	19.78000069	1/12/2018	--	--	--	--	**0.15**	--	--	<0.11	--	--	--	--	--	**0.079**
GB-170	GB-170-6.0	6	1/11/2018	--	--	--	--	<2.5	--	--	<5	--	--	--	--	--	<2.5
GB-170	GB-170-11.5	11.5	1/11/2018	--	--	--	--	<0.046	--	--	<0.091	--	--	--	--	--	<0.046
GB-174	GB-174-2.0	2	2/21/2018	<0.00081	<0.0016	<0.4	<0.00081	<0.00081	--	<0.00081	<0.0016	<0.0016	<0.0081	<0.0081	<0.00081	<0.0016	<0.00081
GB-174	GB-174-5.5	5.5	2/21/2018	<0.00086	<0.0017	<0.43	<0.00086	<0.00086	--	<0.00086	<0.0017	<0.0017	<0.0086	**0.011**	**0.0022**	<0.0017	**0.0024**
MW-POT-10	MW-POT-10-6	6.5	2/27/1991	--	--	--	--	**0.0066**	--	--	--	--	--	--	--	--	--
MW-POT-10	MW-POT-10-10	10.5	2/27/1991	--	--	--	--	<0.00033	--	--	--	--	--	--	--	--	--
MW-POT-11	MW-POT-11-2	2.5	3/5/1991	--	--	--	--	<0.00033	--	--	--	--	--	--	--	--	--
MW-POT-11	MW-POT-11-6	6.5	3/5/1991	--	--	--	--	<0.00034	--	--	--	--	--	--	--	--	--
MW-POT-12	MW-POT-12-3	3.5	2/26/1991	--	--	--	--	<0.00033	--	--	--	--	--	--	--	--	--
MW-POT-12	MW-POT-12-5.5	6	2/26/1991	--	--	--	--	<0.0017	--	--	--	--	--	--	--	--	--
MW-POT-12	MW-POT-12-10.5	11	2/26/1991	--	--	--	--	**0.016**	--	--	--	--	--	--	--	--	--
MW-POT-12	MW-POT-12-15.5	16	2/26/1991	--	--	--	--	<0.0012	--	--	--	--	--	--	--	--	--
PL3.5W	PL3.5W-2062	5	4/17/1990	--	--	--	--	<0.005	<1	--	--	--	--	--	--	--	--
PL4C	PL4C-2063	5	4/17/1990	--	--	--	--	**1**	<2	--	--	--	--	--	--	--	--
PL4N	PL4N-2064	5	4/23/1990	--	--	--	--	<0.005	<0.1	--	--	--	--	--	--	--	--
PL5E	PL5E-2065	5	4/17/1990	--	--	--	--	**0.014**	<1	--	--	--	--	--	--	--	--
S-1	S-1-1	2	11/10/1989	--	--	--	--	<0.001	--	--	--	--	--	--	--	--	--
S-1	S-1-2	2	11/10/1989	--	--	--	--	<0.001	--	--	--	--	--	--	--	--	--
S-1.5	S-1.5-1	2	11/13/1989	--	--	--	--	**0.062**	--	--	--	--	--	--	--	--	--
S-2	S-2-1	2.5	11/10/1989	--	--	--	--	<0.001	--	--	--	--	--	--	--	--	--
S-2	S-2-2	3	11/10/1989	--	--	--	--	<0.001	--	--	--	--	--	--	--	--	--
S-2	S-2-3	5	11/10/1989	--	--	--	--	**0.054**	--	--	--	--	--	--	--	--	--
S-2	S-2-4	10	11/10/1989	--	--	--	--	**0.012**	--	--	--	--	--	--	--	--	--
S-3	S-3-1	3	11/10/1989	--	--	--	--	**0.012**	--	--	--	--	--	--	--	--	--
S-3	S-3-2	5	11/10/1989	--	--	--	--	**0.007**	--	--	--	--	--	--	--	--	--
S-3	S-3-3	7	11/10/1989	--	--	--	--	<0.005	--	--	--	--	--	--	--	--	--
S-3	S-3-4	8	11/10/1989	--	--	--	--	**0.069**	--	--	--	--	--	--	--	--	--
TB3-001	TB03-001@0-1	1	11/25/1997	<0.005	<0.01	--	--	<0.005	<0.005	--	<0.005	--	<0.01	<0.005	<0.005	<0.005	<0.005
TB3-001	TB03-001@5-6	6	11/25/1997	<0.005	<0.01	--	--	<0.005	<0.005	--	<0.005	--	<0.01	<0.005	<0.005	<0.005	<0.005
TB3-002	TB03-002@0-1	1	11/24/1997	<0.005	<0.01	--	--	<0.005	<0.005	--	<0.005	--	<0.01	<0.005	<0.005	<0.005	<0.005
TB3-002	TB03-002@0-1D	1	11/24/1997	<0.005	<0.01	--	--	<0.005	<0.005	--	<0.005	--	<0.01	<0.005	<0.005	<0.005	<0.005
TB3-002	TB03-002@6-7	7	11/24/1997	<0.005	<0.01	--	--	<0.005	<0.005	--	<0.005	--	<0.01	<0.005	<0.005	<0.005	<0.005
TB3-002	TB03-002@18-19	19	11/24/1997	<0.005	<0.01	--	--	<0.005	<0.005	--	<0.005	--	<0.01	<0.005	<0.005	<0.005	<0.005
TB3-003	TB03-003@0-1	1	11/18/1997	<0.005	<0.01	--	--	<0.005	<0.005	--	<0.005	--	<0.01	<0.005	<0.005	<0.005	<0.005
TB3-003	TB03-003@5-6	6	11/24/1997	<0.005	<0.01	--	--	<0.005	<0.005	--	<0.005	--	<0.01	<0.005	<0.005	<0.005	<0.005
TB3-003	TB03-003@9-10	10	11/24/1997	<0.005	<0.01	--	--	<0.005	<0.005	--	<0.005	--	<0.01	<0.005	<0.005	<0.005	<0.005
TB3-007	TB03-007@0-1	1	11/24/1997	<0.005	<0.01	--	--	<0.005	<0.005	--	<0.005	--	<0.01	<0.005	<0.005	<0.005	<0.005
TB3-007	TB03-007@6-8	8	11/24/1997	<0.005	<0.01	--	--	<0.005	<0.005	--	<0.005	--	<0.01	<0.005	<0.005	<0.005	<0.005
TB3-007	TB03-007@10-11	11	11/24/1997	<0.005	<0.01	--	--	<0.005	<0.005	--	<0.005	--	<0.01	<0.005	<0.005	<0.005	<0.005
TB3-008	TB03-008@0-1	1	11/25/1997	<0.005	<0.01	--	--	<0.005	<0.005	--	<0.005	--	<0.01	<0.005	<0.005	<0.005	<0.005
TB3-008	TB03-008@5-6	6	11/25/1997	<0.005	<0.01	--	--	<0.005	<0.005	--	<0.005	--	<0.01	<0.005	<0.005	<0.005	<0.005
TB3-008	TB03-008@10-11	11	11/25/1997	<0.005	<0.01	--	--	<0.005	<0.005	--	<0.005	--	<0.01	<0.005	<0.005	<0.005	<0.005
TB3-009	TB03-009@0-1	1	11/25/1997	<0.005	<0.01	--	--	<0.005	<0.005	--	<0.005	--	<0.01	<0.005	<0.005	<0.005	<0.005
TB3-009	TB03-009@6-8	8	11/25/1997	<0.005	<0.01	--	--	<0.005	<0.005	--	<0.005	--	<0.01	<0.005	<0.005	<0.005	<0.005
TB3-009	TB03-009@6-8D	8	11/25/1997	<0.005	<0.01	--	--	<0.005	<0.005	--	<0.005	--	<0.01	<0.005	<0.005	<0.005	<0.005
TB3-012	TB0312@25-26	26	2/27/1998	**0.0035**	<0.01	--	--	<0.005	<0.005	--	<0.005	--	<0.01	<0.005	<0.005	<0.005	<0.005
TB3-012	TB0312@25-26D	26	2/27/1998	**0.0036**	<0.01	--	--	<0.005	<0.005	--	<0.005	--	<0.01	<0.005	<0.005	<0.005	<0.005
TB3-012	TB0312@29.5-30	30	2/27/1998	<0.005	<0.01	--	--	<0.005	<0.005	--	<0.005	--	<0.01	<0.005	<0.005	<0.005	<0.005
TB3-012	TB0312@33-34	34	2/27/1998	**0.033**	<0.01	--	--	<0.005	<0.005	--	<0.005	--	<0.01	<0.005	<0.005	<0.005	<0.005
TFSS-01	TFSS-01	0	12/8/2017	<0.0008	<0.0016	<0.4	<0.0008	<0.0008	--	<0.0008	<0.0016	<0.0016	<0.008	<0.008	<0.0008	<0.0016	<0.0008

TABLE A-1
ANALYTICAL DATA: VOLATILE ORGANIC COMPOUNDS IN SOIL
TANK FARM AREA, POTRERO POWER PLANT
SAN FRANCISCO, CALIFORNIA

Location ID	Sample ID	Bottom Depth (feet bgs)	Sample Date	sec-Butylbenzene	Styrene	t-Amyl Alcohol	Tert-Amyl Methyl Ether (TAME)	tert-Butyl alcohol	tert-Butylbenzene	Tetrachloro-ethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichloro-fluoromethane (Freon 11)	Vinyl Acetate
GB-163	GB-163-23.0	23	1/3/2018	--	--	--	--	--	--	--	<0.39	--	--	--	--	--
GB-163	GB-163-28.5	28.5	1/3/2018	--	--	--	--	--	--	--	<0.043	--	--	--	--	--
GB-164	GB-164-7.5	7.5	1/3/2018	--	--	--	--	--	--	--	**11**	--	--	--	--	--
GB-166	GB-166-5.5	5.5	1/2/2018	--	--	--	--	--	--	--	<0.00081	--	--	--	--	--
GB-166	GB-166-8.75	8.75	1/3/2018	--	--	--	--	--	--	--	<0.43	--	--	--	--	--
GB-166	GB-166-14.5	14.5	1/3/2018	--	--	--	--	--	--	--	<0.39	--	--	--	--	--
GB-166	GB-166-20.5	20.5	1/3/2018	--	--	--	--	--	--	--	<0.001	--	--	--	--	--
GB-167	GB-167-5.5	5.5	1/12/2018	--	--	--	--	--	--	--	<0.00078	--	--	--	--	--
GB-167	GB-167-9.0	9	1/12/2018	--	--	--	--	--	--	--	<0.97	--	--	--	--	--
GB-167	GB-167-14.75	14.75	1/12/2018	--	--	--	--	--	--	--	<0.036	--	--	--	--	--
GB-167	GB-167-17.0	17	1/12/2018	--	--	--	--	--	--	--	**10**	--	--	--	--	--
GB-167	GB-167-19.75	19.78000069	1/12/2018	--	--	--	--	--	--	--	<0.053	--	--	--	--	--
GB-170	GB-170-6.0	6	1/11/2018	--	--	--	--	--	--	--	<2.5	--	--	--	--	--
GB-170	GB-170-11.5	11.5	1/11/2018	--	--	--	--	--	--	--	<0.046	--	--	--	--	--
GB-174	GB-174-2.0	2	2/21/2018	<0.00081	<0.00081	<0.04	<0.00081	<0.016	<0.00081	<0.00081	<0.00081	<0.00081	<0.0016	<0.0016	<0.0081	<0.0081
GB-174	GB-174-5.5	5.5	2/21/2018	**0.0015**	<0.00086	<0.043	<0.00086	<0.017	<0.00086	<0.00086	<0.00086	<0.00086	<0.0017	<0.0017	<0.0086	<0.0086
MW-POT-10	MW-POT-10-6	6.5	2/27/1991	--	--	--	--	--	--	--	**0.012**	--	--	--	--	--
MW-POT-10	MW-POT-10-10	10.5	2/27/1991	--	--	--	--	--	--	--	<0.00033	--	--	--	--	--
MW-POT-11	MW-POT-11-2	2.5	3/5/1991	--	--	--	--	--	--	--	<0.00033	--	--	--	--	--
MW-POT-11	MW-POT-11-6	6.5	3/5/1991	--	--	--	--	--	--	--	<0.00034	--	--	--	--	--
MW-POT-12	MW-POT-12-3	3.5	2/26/1991	--	--	--	--	--	--	--	**0.00036**	--	--	--	--	--
MW-POT-12	MW-POT-12-5.5	6	2/26/1991	--	--	--	--	--	--	--	<0.0017	--	--	--	--	--
MW-POT-12	MW-POT-12-10.5	11	2/26/1991	--	--	--	--	--	--	--	<0.0012	--	--	--	--	--
MW-POT-12	MW-POT-12-15.5	16	2/26/1991	--	--	--	--	--	--	--	<0.0012	--	--	--	--	--
PL3.5W	PL3.5W-2062	5	4/17/1990	--	--	--	--	--	--	--	<0.005	--	--	--	--	--
PL4C	PL4C-2063	5	4/17/1990	--	--	--	--	--	--	--	**0.25**	--	--	--	--	--
PL4N	PL4N-2064	5	4/23/1990	--	--	--	--	--	--	--	<0.005	--	--	--	--	--
PL5E	PL5E-2065	5	4/17/1990	--	--	--	--	--	--	--	**0.005**	--	--	--	--	--
S-1	S-1-1	2	11/10/1989	--	--	--	--	--	--	--	**0.005**	--	--	--	--	--
S-1	S-1-2	2	11/10/1989	--	--	--	--	--	--	--	**0.01**	--	--	--	--	--
S-1.5	S-1.5-1	2	11/13/1989	--	--	--	--	--	--	--	**0.051**	--	--	--	--	--
S-2	S-2-1	2.5	11/10/1989	--	--	--	--	--	--	--	**0.01**	--	--	--	--	--
S-2	S-2-2	3	11/10/1989	--	--	--	--	--	--	--	**0.015**	--	--	--	--	--
S-2	S-2-3	5	11/10/1989	--	--	--	--	--	--	--	**0.066**	--	--	--	--	--
S-2	S-2-4	10	11/10/1989	--	--	--	--	--	--	--	**0.032**	--	--	--	--	--
S-3	S-3-1	3	11/10/1989	--	--	--	--	--	--	--	**0.026**	--	--	--	--	--
S-3	S-3-2	5	11/10/1989	--	--	--	--	--	--	--	**0.023**	--	--	--	--	--
S-3	S-3-3	7	11/10/1989	--	--	--	--	--	--	--	**0.024**	--	--	--	--	--
S-3	S-3-4	8	11/10/1989	--	--	--	--	--	--	--	**0.067**	--	--	--	--	--
TB3-001	TB03-001@0-1	1	11/25/1997	<0.005	<0.005	--	--	--	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	--
TB3-001	TB03-001@5-6	6	11/25/1997	<0.005	<0.005	--	--	--	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	--
TB3-002	TB03-002@0-1	1	11/24/1997	<0.005	<0.005	--	--	--	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	--
TB3-002	TB03-002@0-1D	1	11/24/1997	<0.005	<0.005	--	--	--	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	--
TB3-002	TB03-002@6-7	7	11/24/1997	<0.005	<0.005	--	--	--	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	--
TB3-002	TB03-002@18-19	19	11/24/1997	<0.005	<0.005	--	--	--	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	--
TB3-003	TB03-003@0-1	1	11/18/1997	<0.005	<0.005	--	--	--	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	--
TB3-003	TB03-003@5-6	6	11/24/1997	<0.005	<0.005	--	--	--	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	--
TB3-003	TB03-003@9-10	10	11/24/1997	<0.005	<0.005	--	--	--	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	--
TB3-007	TB03-007@0-1	1	11/24/1997	<0.005	<0.005	--	--	--	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	--
TB3-007	TB03-007@6-8	8	11/24/1997	<0.005	<0.005	--	--	--	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	--
TB3-007	TB03-007@10-11	11	11/24/1997	<0.005	<0.005	--	--	--	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	--
TB3-008	TB03-008@0-1	1	11/25/1997	<0.005	<0.005	--	--	--	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	--
TB3-008	TB03-008@5-6	6	11/25/1997	<0.005	<0.005	--	--	--	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	--
TB3-008	TB03-008@10-11	11	11/25/1997	<0.005	<0.005	--	--	--	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	--
TB3-009	TB03-009@0-1	1	11/25/1997	<0.005	<0.005	--	--	--	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	--
TB3-009	TB03-009@6-8	8	11/25/1997	<0.005	<0.005	--	--	--	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	--
TB3-009	TB03-009@6-8D	8	11/25/1997	<0.005	<0.005	--	--	--	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	--
TB3-012	TB0312@25-26	26	2/27/1998	<0.005	<0.005	--	--	--	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	--
TB3-012	TB0312@25-26D	26	2/27/1998	<0.005	<0.005	--	--	--	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	--
TB3-012	TB0312@29.5-30	30	2/27/1998	<0.005	<0.005	--	--	--	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	--
TB3-012	TB0312@33-34	34	2/27/1998	<0.005	<0.005	--	--	--	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	--
TFSS-01	TFSS-01	0	12/8/2017	<0.0008	<0.0008	<0.04	<0.0008	<0.016	<0.0008	<0.0008	<0.0008	<0.0008	<0.0016	<0.0016	<0.008	<0.008

TABLE A-1
ANALYTICAL DATA: VOLATILE ORGANIC COMPOUNDS IN SOIL
TANK FARM AREA, POTRERO POWER PLANT
SAN FRANCISCO, CALIFORNIA

Location ID	Sample ID	Bottom Depth (feet bgs)	Sample Date	Vinyl Chloride	Xylenes [a]
GB-163	GB-163-23.0	23	1/3/2018	--	**4.1**
GB-163	GB-163-28.5	28.5	1/3/2018	--	<0.087
GB-164	GB-164-7.5	7.5	1/3/2018	--	**5.1**
GB-166	GB-166-5.5	5.5	1/2/2018	--	<0.0016
GB-166	GB-166-8.75	8.75	1/3/2018	--	<0.87
GB-166	GB-166-14.5	14.5	1/3/2018	--	<0.79
GB-166	GB-166-20.5	20.5	1/3/2018	--	<0.002
GB-167	GB-167-5.5	5.5	1/12/2018	--	**0.0035**
GB-167	GB-167-9.0	9	1/12/2018	--	**3.8**
GB-167	GB-167-14.75	14.75	1/12/2018	--	**0.18**
GB-167	GB-167-17.0	17	1/12/2018	--	**60**
GB-167	GB-167-19.75	19.78000069	1/12/2018	--	**0.079**
GB-170	GB-170-6.0	6	1/11/2018	--	<5
GB-170	GB-170-11.5	11.5	1/11/2018	--	<0.091
GB-174	GB-174-2.0	2	2/21/2018	<0.00081	<0.0016
GB-174	GB-174-5.5	5.5	2/21/2018	<0.00086	**0.0024**
MW-POT-10	MW-POT-10-6	6.5	2/27/1991	--	**0.01**
MW-POT-10	MW-POT-10-10	10.5	2/27/1991	--	<0.0011
MW-POT-11	MW-POT-11-2	2.5	3/5/1991	--	<0.0011
MW-POT-11	MW-POT-11-6	6.5	3/5/1991	--	<0.0011
MW-POT-12	MW-POT-12-3	3.5	2/26/1991	--	<0.0011
MW-POT-12	MW-POT-12-5.5	6	2/26/1991	--	<0.0058
MW-POT-12	MW-POT-12-10.5	11	2/26/1991	--	**0.019**
MW-POT-12	MW-POT-12-15.5	16	2/26/1991	--	<0.0012
PL3.5W	PL3.5W-2062	5	4/17/1990	--	**0.064**
PL4C	PL4C-2063	5	4/17/1990	--	**11**
PL4N	PL4N-2064	5	4/23/1990	--	<0.005
PL5E	PL5E-2065	5	4/17/1990	--	**0.17**
S-1	S-1-1	2	11/10/1989	--	<0.001
S-1	S-1-2	2	11/10/1989	--	**0.011**
S-1.5	S-1.5-1	2	11/13/1989	--	**0.266**
S-2	S-2-1	2.5	11/10/1989	--	<0.001
S-2	S-2-2	3	11/10/1989	--	<0.001
S-2	S-2-3	5	11/10/1989	--	**0.368**
S-2	S-2-4	10	11/10/1989	--	**0.051**
S-3	S-3-1	3	11/10/1989	--	**0.053**
S-3	S-3-2	5	11/10/1989	--	**0.018**
S-3	S-3-3	7	11/10/1989	--	**0.075**
S-3	S-3-4	8	11/10/1989	--	**0.274**
TB3-001	TB03-001@0-1	1	11/25/1997	<0.002	<0.005
TB3-001	TB03-001@5-6	6	11/25/1997	<0.002	<0.005
TB3-002	TB03-002@0-1	1	11/24/1997	<0.002	<0.005
TB3-002	TB03-002@0-1D	1	11/24/1997	<0.002	<0.005
TB3-002	TB03-002@6-7	7	11/24/1997	<0.002	<0.005
TB3-002	TB03-002@18-19	19	11/24/1997	<0.002	<0.005
TB3-003	TB03-003@0-1	1	11/18/1997	<0.002	<0.005
TB3-003	TB03-003@5-6	6	11/24/1997	<0.002	<0.005
TB3-003	TB03-003@9-10	10	11/24/1997	<0.002	<0.005
TB3-007	TB03-007@0-1	1	11/24/1997	<0.002	<0.005
TB3-007	TB03-007@6-8	8	11/24/1997	<0.002	<0.005
TB3-007	TB03-007@10-11	11	11/24/1997	<0.002	<0.005
TB3-008	TB03-008@0-1	1	11/25/1997	<0.002	<0.005
TB3-008	TB03-008@5-6	6	11/25/1997	<0.002	<0.005
TB3-008	TB03-008@10-11	11	11/25/1997	<0.002	<0.25
TB3-009	TB03-009@0-1	1	11/25/1997	<0.002	<0.005
TB3-009	TB03-009@6-8	8	11/25/1997	<0.002	<0.005
TB3-009	TB03-009@6-8D	8	11/25/1997	<0.002	<0.005
TB3-012	TB0312@25-26	26	2/27/1998	<0.002	<0.005
TB3-012	TB0312@25-26D	26	2/27/1998	<0.002	<0.005
TB3-012	TB0312@29.5-30	30	2/27/1998	<0.002	<0.005
TB3-012	TB0312@33-34	34	2/27/1998	<0.002	<0.005
TFSS-01	TFSS-01	0	12/8/2017	<0.0008	<0.0016

TABLE A-1
ANALYTICAL DATA: VOLATILE ORGANIC COMPOUNDS IN SOIL
TANK FARM AREA, POTRERO POWER PLANT
SAN FRANCISCO, CALIFORNIA

Notes:
All analytical results are wet weight results in milligrams per kilogram (mg/kg), with the exception of soil samples MW-POT-10, MW-POT-11, and MW-POT-12, which are dry weight results.
Detected results are presented in **bold**.
-- = Not analyzed for
< = Analyte was not detected at the given detection limit
[a] Represents the sum of results for m,p-xylenes and o-xylene. If only one of the two analytes was detected, the reported result for that analyte was used and is presented. If neither analyte was detected, the higher limit of detection for the two analytes was used and is presented.

bgs = Below ground surface
FD = Field duplicate
J = Estimated value
P = Primary sample

TABLE A-2
ANALYTICAL DATA: POLYCYCLIC AROMATIC HYDROCARBONS IN SOIL
TANK FARM AREA, POTRERO POWER PLANT
SAN FRANCISCO, CALIFORNIA

Location ID	Sample ID	Bottom Depth (feet bgs)	Sample Date	Sample Type	1-Methyl-naphthalene	2-Methyl-naphthalene	Acenaph-thene	Acenaph-thylene	Anthracene	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(a) pyrene Equivalent [a]	Benzo(b) fluoranthene	Benzo(g,h,i) perylene	Benzo(k) fluoranthene	Chrysene	Dibenz(a,h) anthracene	Fluor-anthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phen-anthrene	Pyrene
Benzo(a)pyrene Potency Equivalency Factor (PEF) [b]					NA	NA	NA	NA	NA	0.1	1	NA	0.1	NA	0.01	0.001	1	NA	NA	0.1	NA	NA	NA
GB-127	GB-127-2.0	2	11/13/2017	P	0.32	0.35	0.53	2.9	6.8	19	20	28.00	14	16	16	21	4.3	43	2.3	12	1.2	44	95
GB-127	GB-127-6.0	6	12/7/2017	P	0.018	0.011	0.13	0.059	0.11	0.13	0.2	0.260	0.15	0.2	0.1	0.18	0.026	0.66	0.055	0.13	0.088	0.81	0.82
GB-128	GB-128-2.0	2	11/13/2017	P	2.3	1.7	8.5	6.3	8.5	14	23	30	15	28	13	16	4.2	86	4.3	16	4.6	89	110
GB-128	GB-128-5.0	5	12/6/2017	P	5.8	4.8	24	18	16	18	43	54.0	27	43	19	26	3.4	140	8	29	23	180	180
GB-128	GB-128-10.0	10	12/7/2017	P	0.013	0.018	0.035	0.017	0.032	0.026	0.045	0	0.026	0.036	0.028	0.038	<0.0099	0.15	0.03	0.028	0.095	0.27	0.16
GB-129	GB-129-2.0	2	11/8/2017	P	<0.099	<0.099	<0.099	0.27	0.46	1.2	1.2	1.7	0.78	1.3	0.96	1.4	0.22	2.1	0.23	0.86	0.1	2.5	3.6
GB-129	GB-129-5.0	5	11/20/2017	P	<0.099	<0.099	<0.099	<0.099	<0.099	0.22	0.24	0.33	0.15	0.15	0.19	0.22	<0.099	0.4	<0.099	0.12	<0.099	0.19	0.53
GB-129	GB-129-9.25	9.25	11/20/2017	P	<0.99	<0.99	<0.99	1.7	2.4	5.8	8.1	11	5.2	5.2	5.7	6.4	1	18	<0.99	4.2	<0.99	14	22
GB-129	GB-129-18.75	18.75	11/20/2017	P	<0.098	<0.098	0.32	0.38	0.16	0.72	1	1.4	0.72	0.92	0.77	0.78	0.18	1.2	0.23	0.7	0.45	0.67	1.8
GB-129	GB-129-22.5	22.5	11/20/2017	P	<0.10	<0.10	<0.10	<0.10	0.26	0.74	1.1	1.5	0.75	1.2	0.67	0.79	0.13	1.8	<0.10	0.82	0.12	0.72	2.5
GB-130	GB-130-2.0	2	11/14/2017	P	<0.098	<0.098	0.39	0.86	1.1	2.6	4.1	5.4	2.4	5.1	2.5	3.3	0.63	9.5	0.35	3.2	0.39	7.6	13
GB-130	GB-130-5.0	5	11/15/2017	P	1.2	0.91	1.5	1.1	2.2	3.2	5.9	7.4	3	6.1	2.8	4	0.61	13	1.4	3.1	10	15	15
GB-130	GB-130-10.0	10	11/15/2017	P	0.11	<0.099	1.9	1.5	1.2	4.7	11	14	7.8	12	4.5	7.6	1.3	22	0.2	7.6	0.49	6.7	33
GB-130	GB-130-15.0	15	11/15/2017	P	0.14	0.17	0.13	0.42	0.66	2	2.6	3.5	1.9	2.2	1.9	2.3	0.48	4.3	0.28	1.6	0.59	3.2	6
GB-130	GB-130-19.0	19	11/15/2017	P	0.049	0.057	0.098	0.35	0.57	1.6	2.5	3.3	1.7	2.4	1.7	2	0.36	4.8	0.18	1.6	0.27	3.2	7
GB-130	GB-130-25.75	25.75	11/15/2017	P	220	250	1,700	330	550	570	1,900	2,300	1,000	2,300	600	830	120	4,400	240	1,400	4,300	5,300	5,700
GB-131	GB-131-2.0	2	11/13/2017	P	0.17	0.13	2.9	1.5	2.4	6.3	12	15	6.7	17	6.9	9	1.3	28	0.82	9.1	0.47	22	37
GB-131	GB-131-6.5	6.5	12/4/2017	P	1.6	1.3	8.6	4.2	4.9	11	25	31	15	27	11	15	1.7	50	1.9	18	4.9	48	60
GB-131	GB-131-9.0	9	12/4/2017	P	0.84	0.68	1.4	0.96	2.5	3.2	6.7	8.2	3.4	4.4	3	4.5	0.61	16	1.3	3.3	3.2	17	19
GB-131	GB-131-12.5	12.5	12/4/2017	P	2.6	3.5	9.8	6.8	7.7	11	25	31	15	27	12	16	1.7	58	3.1	18	39	64	68
GB-131	GB-131-16.5	16.5	12/4/2017	P	2.5	2.3	1.3	1.8	2.1	3.4	4.7	6.2	3.1	3.1	3	4.2	0.65	11	1.3	2.6	9.2	11	14
GB-131	GB-131-21.5	21.5	12/4/2017	P	0.13	0.11	3.6	1.6	1.5	4.7	10	13	6.7	11	4.4	7.5	0.89	23	0.28	7	0.59	4.4	30
GB-131	GB-131-25.0	25	12/4/2017	P	0.13	0.11	0.57	1.7	1.9	8	14	18	9.8	12	8.1	11	1.2	33	0.31	9	0.71	12	39
GB-131	GB-131-28.0	28	12/4/2017	P	<0.098	<0.098	0.38	0.9	0.68	3.5	6.8	8.4	3.5	4.2	3.4	4.6	0.65	13	0.12	3.2	0.28	2.1	17
GB-132	GB-132-2.0	2	11/13/2017	P	0.29	0.27	1.5	1.6	1.9	5.5	8.8	11	6	9.1	4.9	6.9	1.2	20	0.71	5.7	1.5	15	23
GB-132	GB-132-5.0	5	11/13/2017	P	0.51	0.37	6.2	2	2.6	5.8	12	15	7.5	14	6.3	7.7	1.4	28	0.44	8.2	5	17	33
GB-132	GB-132-10.0	10	11/13/2017	P	0.14	0.14	1.8	1.1	1	4.1	7.5	9.7	4.5	8.6	3.9	5.8	0.96	16	0.13	5.2	0.69	3.7	19
GB-132	GB-132-15.0	15	11/13/2017	P	<0.099	<0.099	0.1	0.56	0.63	2.2	3.3	4.4	2.3	3.8	2	2.9	0.52	7.4	0.1	2.3	0.21	2.7	10
GB-132	GB-132-20.0	20	11/13/2017	P	0.041	0.016	0.079	0.088	0.17	0.41	0.63	0.81	0.36	0.7	0.37	0.58	0.081	1.2	0.035	0.36	0.18	0.85	2.5
GB-132	GB-132-25.0	25	11/14/2017	P	0.45	0.2	0.88	0.98	1.8	3.7	6.4	8.1	3.7	8	3.1	4.8	0.67	15	0.55	3.9	1.5	11	21
GB-133	GB-133-2.0	2	11/17/2017	P	0.061	0.076	0.14	0.5	0.94	2.7	3.5	4.7	2.9	3	2.2	3	0.37	8.6	0.26	2.2	0.24	6.8	12
GB-133	GB-133-5.0	5	11/17/2017	P	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0086	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	0.01	<0.0098	<0.0098	0.021	<0.0098	0.015
GB-133	GB-133-10.0	10	11/20/2017	P	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0086	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	0.013	<0.0098	0.016
GB-134	GB-134-2.0	2	11/15/2017	P	4.8	4.2	23	11	15	19	45	56	26	60	19	27	3.4	120	6.9	28	14	140	140
GB-134	GB-134-5.0	5	11/20/2017	P	1.6	1.4	12	4.2	9.7	12	27	34	18	37	13	18	2.3	62	2.2	21	12	66	77
GB-134	GB-134-10.0	10	11/21/2017	P	<0.98	<0.98	1.5	2.1	4.1	8.2	13	17	8.6	12	8.5	10	1.6	29	<0.98	8.3	8	25	36
GB-134	GB-134-13.5	13.5	11/21/2017	P	2.2	<0.10	3.5	0.25	3.3	1.7	2	2.5	0.86	1.3	1	2	0.18	4.7	0.66	0.79	<0.10	1.1	6.8
GB-134	GB-134-15.5	15.5	11/21/2017	P	<0.0099	<0.0099	0.012	<0.0099	<0.0099	<0.0099	0.016	0.022	0.011	0.017	0.011	0.011	<0.0099	0.029	<0.0099	0.011	0.15	0.037	0.059
GB-135	GB-135-2.0	2	11/17/2017	P	0.074	0.04	0.033	0.65	0.33	1.2	1.4	1.9	1	0.83	1.1	1.1	0.24	1.8	0.044	0.74	0.24	0.9	2
GB-135	GB-135-5.5	5.5	11/17/2017	P	0.026	0.036	0.087	0.25	1	2.4	2.6	3.4	1.6	1.4	1.9	2.3	0.25	4.5	0.11	1.1	0.21	1.4	6.5
GB-135	GB-135-10.5	10.5	11/20/2017	P	1.6	0.93	0.65	2	4	4.8	4.8	6.4	3	2	3.9	4.5	0.59	11	2.8	1.7	4	11	11
GB-135	GB-135-14.5	14.5	11/20/2017	P	0.41	0.13	0.13	0.53	1.4	3.5	3.5	4.7	2.1	1.7	2.8	3.4	0.47	5.4	0.37	1.4	0.68	2.2	8.6
GB-135	GB-135-19.0	19	11/20/2017	P	2	<0.099	4.7	0.74	4.6	3.7	5	6.4	2.7	5.2	2.6	4.5	0.45	12	1.1	2.9	0.34	18	18
GB-136	GB-136-2.0	2	11/13/2017	P	0.57	0.73	0.96	1.9	2.3	4.9	7.4	9.6	4	8	4.8	6.8	0.93	17	1.5	4.6	2.2	17	22
GB-136	GB-136-5.0	5	11/13/2017	P	<0.098	<0.098	0.34	0.46	0.38	1.5	2.5	3.2	1.6	2.9	1.5	1.7	0.26	4	0.11	1.7	0.11	2	7.5
GB-136	GB-136-10.0	10	11/13/2017	P	<0.0099	<0.0099	<0.0099	<0.0099	<0.0099	0.017	0.024	0.032	0.013	0.034	0.016	0.018	<0.0099	0.037	<0.0099	0.018	<0.0099	0.032	0.056
GB-137	GB-137-2.0	2	11/15/2017	P	<0.0099	<0.0099	<0.0099	<0.0099	<0.0099	<0.0099	0.016	0.021	0.011	0.025	<0.0099	0.0099	<0.0099	0.02	<0.0099	0.014	<0.0099	0.018	0.044
GB-137	GB-137-5.0	5	12/7/2017	P	<0.0098	<0.0098	<0.0098	0.017	0.057	0.065	0.1	0.13	0.079	0.093	0.061	0.088	<0.0098	0.29 J	0.028	0.067	<0.0098	0.051	0.64
GB-137	GB-137-9.0	9	12/7/2017	P	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0086	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	0.019	0.01	<0.0098	<0.0098	0.015	0.033
GB-138	GB-138-2.0	2	11/9/2017	P	<0.10	0.12	<0.10	0.68	0.57	2.2	4.5	6	2.9	7	2.7	2.9	0.79	6.4	0.12	4.3	0.53	2.6	10
GB-138A	GB-138A-5.0	5	1/2/2018	P	<0.10	<0.10	<0.10	0.33	0.39	1.4	2.2	2.9	1.7	2.3	1.4	1.7	0.32	3.3	0.13	1.7	0.6	2	4.9
GB-139	GB-139-3.0	3	11/15/2017	P	<0.10	0.13	0.18	0.88	1.8	8.7	7.9	10	5	3.3	4.3	8.3	1.1	18	0.55	2.8	0.66	8.4	20
GB-139	GB-139-5.0	5	11/15/2017	P	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	0.029	0.028	0.039	0.02	0.019	0.022	0.028	<0.0098	0.059	<0.0098	0.016	0.018	0.034	0.065
GB-139	GB-139-10.0	10	11/16/2017	P	<0.010	<0.010	0.012	0.058	0.081	0.24	0.27	0.37	0.22	0.18	0.18	0.25	0.044	0.61	0.031	0.15	0.055	0.33	0.72
GB-140	GB-140-2.0	2	11/9/2017	P	<0.099	<0.099	<0.099	0.36	0.34	1.5	2.2	3	1.5	3.2	1.5	1.9	0.35	3.5	0.1	1.9	0.72	1.9	4.8
GB-140	GB-140-4.75	4.75	11/9/2017	P	<1.0	<1.0	<1.0	1.5	1.6	5.3	7.2	9.4	4.8	8.2	4.6	6.6	<1.0	15	<1.0	5.2	1.3	7.2	28
GB-140	GB-140-10.0	10	12/6/2017	P	<0.0099	<0.0099	<0.0099	<0.0099	0.016	0.038 J	0.055 J	0.074	0.052 J	0.063 J	0.036 J	0.047 J	<0.0099	0.11 J	<0.0099	0.046 J	0.13 J	0.12 J	0.17 J
GB-141	GB-141-2.0	2	11/17/2017	P	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0086	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	0.011	<0.0098	0.01
GB-141	GB-141-5.0	5	11/21/2017	P	1.3	1.4	<1.0	3.7	7.3	16	24	32	17	22	18	20	2.9	58	2.3	15	5.4	39	61
GB-141	GB-141-7.5	7.5	12/7/2017	P	3.7	3	7	10	10	19	31	40	20	27	17	25	3.5	61	4.7	19	88	57	70
GB-141	GB-141-12.5	12.5	12/7/2017	P	<0.0099	<0.0099	0.071	0.033	0.09	0.19	0.22	0.29	0.15	0.17	0.14	0.19	0.03	0.64	0.031	0.13	0.043	0.47	0.83
GB-142	GB-142-2.0	2	11/8/2017	P	<0.0099	<0.0099	<0.0099	<0.0099	<0.0099	<0.0099	<0.0099	<0.0087	<0.0099	<0.0099	<0.0099	<0.0099	<0.0099	<0.0099	<0.0099	<0.0099	0.067	<0.0099	<0.0099
GB-142	GB-142-5.0	5	11/8/2017	P	0.18	0.12	0.11	0.7	0.83	2.1	2.9	3.8	2	2.6	1.8	2.7	0.28	6.8	0.25	1.8	0.89	4.9	8.8
GB-142	GB-142-10.0	10	11/8/2017	P	22	42	4.8	50	27	27	36	46	21	20	22	32	3.8	73	2.8	16	700	130	92
GB-142	GB-142-15.0	15	11/8/2017	P	19	44	<0.99	1.6	9.2	11	12	15	6.4	4.2	8.5	12	1.1	26	12	4.1	270	66	31

TABLE A-2
ANALYTICAL DATA: POLYCYCLIC AROMATIC HYDROCARBONS IN SOIL
TANK FARM AREA, POTRERO POWER PLANT
SAN FRANCISCO, CALIFORNIA

Location ID	Sample ID	Bottom Depth (feet bgs)	Sample Date	Sample Type	1-Methyl-naphthalene	2-Methyl-naphthalene	Acenaph-thene	Acenaph-thylene	Anthracene	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(a) pyrene Equivalent [a]	Benzo(b) fluoranthene	Benzo(g,h,i) perylene	Benzo(k) fluoranthene	Chrysene	Dibenz(a,h) anthracene	Fluor-anthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phen-anthrene	Pyrene
Benzo(a)pyrene Potency Equivalency Factor (PEF) [b]					NA	NA	NA	NA	NA	0.1	1	NA	0.1	NA	0.01	0.001	1	NA	NA	0.1	NA	NA	NA
GB-142	GB-142-20.0	20	11/8/2017	P	14	39	0.87	1.1	4.5	7.9	7.5	10	4	2.9	6.8	7.9	0.99	16	9.6	3.1	320	39	19
GB-142	GB-142-23.0	23	11/8/2017	P	0.06	0.12	0.011	0.032	0.094	0.15	0.14	0.19	0.069	0.07	0.12	0.17	0.018	0.3	0.15	0.067	0.81	0.71	0.41
GB-143	GB-143-2.0	2	11/9/2017	P	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0086	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	0.047	<0.0098	<0.0098
GB-143	GB-143-5.0	5	11/9/2017	P	0.91	0.4	1.6	2.6	4	8.5	13	17	8.8	11	8	11	1.3	30	1.3	8.1	3.4	27	41
GB-143	GB-143-10.0	10	11/9/2017	P	20	16	37	47	45	66	110	140	72	95	63	84	12	260	37	68	1,500	290	290
GB-143	GB-143-10.5	10.5	11/9/2017	P	26	35	27	140	76	80	120	160	75	120	68	100	14	350	67	81	1,200	630	400
GB-143	GB-143-13.0	13	11/9/2017	P	<0.0098	0.015 J	0.022 J	0.13 J	0.097 J	0.17 J	0.29 J	0.37	0.20 J	0.19 J	0.16 J	0.24 J	0.018 J	0.64	0.065 J	0.16 J	0.24 J	0.63	0.91
GB-144	GB-144-2.0	2	11/10/2017	P	<1.0	<1.0	<1.0	1.9	1.6	6	11	14	7.7	11	6.8	7.2	1.1	18	<1.0	6.4	<1.0	11	23
GB-144	GB-144-5.5	5.5	11/10/2017	P	15	24	9.2	20	46	110	110	150	57	68	86	110	15	250	36	53	100	290	320
GB-144	GB-144-6.5	6.5	11/10/2017	P	0.024	0.036	0.013	0.069	0.084	0.13	0.14	0.19	0.076	0.077	0.11	0.13	0.021	0.29	0.052	0.065	0.23	0.36	0.38
GB-144	GB-144-10.0	10	11/10/2017	P	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0086	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098
GB-145	GB-145-14.0	14	11/14/2017	P	0.18	<0.098	1.4	0.13	0.27	0.51	0.42	0.56	0.18	0.27	0.31	0.69	<0.098	0.71	0.81	0.2	<0.098	1.1	2.2
GB-159	GB-159-8.5	8.5	1/4/2018	P	0.012	0.012	0.044	0.28	0.059	1.5	2.8	3.5	1.8	2.3	1.4	0.68	0.26	9.6	<0.0099	1.8	0.13	0.069	13
GB-161	GB-161-9.25	9.25	1/5/2018	P	840	1,500	520	590	860	1,200	1,900	2,400	1,300	1,700	840	1,500	210	4,800	930	1,200	37,000	7,000	4,900
GB-161	GB-161-15.0	15	1/5/2018	P	19	21	97	4.8	25	25	39	51	26	32	22	32	4.7	100	20	25	570	150	110
GB-161	GB-161-17.5	17.5	1/5/2018	P	1.1	1.3	10	0.78	2.3	2.6	3.7	4.9	3	3.1	2	3.2	0.49	12	1.7	2.5	35	17	15
GB-161	GB-161-20.0	20	1/5/2018	P	<0.099	<0.099	3.2	1.1	1.9	2.1	3.2	4.2	2.5	2.6	1.7	2.6	0.35	8.5	0.49	2.1	0.19	9.6	11
GB-162	GB-162-15.0	15	1/4/2018	P	12	10	47	1.7	10	9	15	19	9.1	12	8.2	12	1.1	47	7.9	9.2	270	91	65
GB-162	GB-162-24.5	24.5	1/4/2018	P	0.028	0.024	0.19 J	0.039	0.098	0.15	0.25	0.33	0.18	0.24	0.14	0.2	0.03	0.69	0.065	0.18	0.30 J	0.74	0.72
GB-163	GB-163-9.0	9	1/3/2018	P	1.7	2.6	0.37	11	8	15	28	36	20	28	15	20	2.3	79	4.2	20	18	90	88
GB-163	GB-163-14.0	14	1/3/2018	P	120	190	580	88	220	270	570	720	390	580	280	380	44	1,600	180	410	6,000	2,100	1,700
GB-163	GB-163-23.0	23	1/3/2018	P	7.8	10	19	2.9	8.3	9	15	19	9.6	12	4.9	12	1.1	39	8.5	9.2	140	63	41
GB-163	GB-163-28.5	28.5	1/3/2018	P	0.047	0.061	0.21	0.058	0.1	0.15	0.26	0.33	0.17	0.25	0.13	0.2	0.028	0.58	0.097	0.18	0.74	0.75	0.62
GB-164	GB-164-7.5	7.5	1/3/2018	P	98	170	38	760	360	660	980	1,400	970	970	680	840	150	2,500	180	930	3,600	2,800	3,000
GB-166	GB-166-2.0	2	1/2/2018	P	<0.0099	<0.0099	<0.0099	0.016	<0.0099	0.024	0.041	0.056	0.038	0.053	0.028	0.036	<0.0099	0.077	<0.0099	0.04	0.07	0.071	0.089
GB-166	GB-166-5.5	5.5	1/2/2018	P	0.014	0.017	0.014	0.074	0.042	0.2	0.32	0.44	0.29	0.31	0.2	0.22	0.079	0.25	0.018	0.25	0.15	0.14	0.48
GB-166	GB-166-8.75	8.75	1/3/2018	P	<0.10	<0.10	3.4	0.93	1.5	2.3	3.4	4.6	2.6	4.3	1.9	2.9	0.68	8.2	0.66	3	0.81	3.3	14
GB-166	GB-166-14.5	14.5	1/3/2018	P	0.58	0.8	1.3	2.3	8.2	16	30	38	20	1.9	17	17	7.8	29	0.54	0.61	6.5	19	0.62
GB-166	GB-166-20.5	20.5	1/3/2018	P	<0.0099	0.018	0.02	0.013	0.02	0.04	0.063	0.085	0.05	0.065	0.034	0.049	0.014	0.13	<0.0099	0.047	0.013	0.11	0.17
GB-167	GB-167-2.0	2	1/2/2018	P	0.024	0.022	0.019	0.054	0.039	0.13	0.14	0.2	0.12	0.094	0.1	0.16	0.035	0.16	0.024	0.081	0.029	0.094	0.24
GB-167	GB-167-5.5	5.5	1/12/2018	P	0.033	0.041	0.049	0.2	0.28	0.66	0.96	1.3	0.66	0.71	0.64	0.83	0.19	1.6	0.071	0.53	0.25	0.95	2.2
GB-167	GB-167-9.0	9	1/12/2018	P	140	15	75	50	67	84	160	200	87	120	65	130	17	420	62	83	620	570	440
GB-167	GB-167-14.75	14.75	1/12/2018	P	2.2	0.37	19	4.4	7.3	19	15	20	10	4.2	12	19	1.5	50	2.6	4.3	3.7	24	44
GB-167	GB-167-17.0	17	1/12/2018	P	140	180	79	69	160	140	94	130	60	35	76	140	12	350	200	37	950	600	310
GB-167	GB-167-19.75	19.8	1/12/2018	P	1.5	2.8	0.36	0.9	0.59	0.5	0.41	0.56	0.25	0.13	0.37	0.49	<0.099	1.2	1	0.13	29	2.7	1.1
GB-169	GB-169-2.0	2	1/10/2018	P	<0.010	<0.010	<0.010	0.04	0.047	0.16	0.21	0.29	0.21	0.17	0.14	0.19	0.033	0.34 J	0.013	0.14	0.016	0.17 J	0.48 J
GB-169	GB-169-5.5	5.5	1/10/2018	P	<0.0099	<0.0099	0.01	0.2	0.26	1.3	1.1	1.5	0.75	0.31	0.91	1.3	0.14	2.3	<0.0099	0.33	0.011	0.034	3
GB-170	GB-170-6.0	6	1/11/2018	P	17	9.8	12	140	84	290	360	480	280	200	280	320	51	530	48	170	51	330	750
GB-170	GB-170-11.5	11.5	1/11/2018	P	0.5	<0.10	1.6	0.78	1.9	1.1	0.87	1.2	0.56	0.41	0.63	1.1	0.14	2.9	1.4	0.39	<0.10	3.3	3.4
GB-174	GB-174-2.0	2	2/21/2018	P	0.19	0.14	0.84	1.8	2.6	9.2	14	18	9.6	13	8.2	10	1.5	28	0.81	9.7	0.58	23	37
GB-174	GB-174-5.5	5.5	2/21/2018	P	0.15	<0.098	0.59	0.73	0.73	2	3.5	4.5	2	2.7	1.9	2.1	0.48	3.8	0.4	1.9	<0.098	1.4	7.4
MW-POT-10	MW-POT-10-6	6.5	2/27/1991	P	--	--	<0.55	<0.55	<0.055	<0.055	<0.055	<0.063	<0.055	<0.14	<0.055	<0.055	<0.14	<0.14	<0.055	<0.055	<0.55	<0.055	<0.14
MW-POT-10	MW-POT-10-10	10.5	2/27/1991	P	--	--	<0.56	<0.56	<0.056	<0.056	<0.056	<0.063	<0.056	<0.14	<0.056	<0.056	<0.14	<0.14	<0.056	<0.056	<0.56	<0.056	<0.14
MW-POT-11	MW-POT-11-2	2.5	3/5/1991	P	--	--	2.6	1.3	0.47	1.4	2.9	4.3	1.4	2.2	0.9	1.7	2.5	3.6	0.49	1.2	2.5	1.7	5.9
MW-POT-11	MW-POT-11-6	6.5	3/5/1991	P	--	--	<0.57	<0.57	<0.057	<0.057	<0.057	<0.064	<0.057	<0.14	<0.057	<0.057	<0.14	<0.14	<0.057	<0.057	<0.57	<0.057	<0.14
MW-POT-12	MW-POT-12-3	3.5	2/26/1991	P	--	--	<0.56	<0.56	0.062	0.12	0.23	0.32	0.24	<0.14	<0.056	0.58	<0.14	0.92	<0.056	0.26	<0.56	0.27	1
MW-POT-12	MW-POT-12-5.5	6	2/26/1991	P	--	--	<0.58	2.2	1.2	4.1	10	14	4.2	7.4	<0.058	5.7	8.7	20	0.7	4.6	<0.58	4.9	21
MW-POT-12	MW-POT-12-10.5	11	2/26/1991	P	--	--	<0.58	2.8	1.9	4.9	8.7	11	3.7	9.1	3.8	4.6	2	24	1.4	3	<0.58	4.9	23
MW-POT-12	MW-POT-12-15.5	16	2/26/1991	P	--	--	<0.60	1.2	1.7	4.8	8.4	19	3.6	9.2	3.6	4.5	25	24	1.1	3.7	<0.60	4.4	25
PA-4	8605111-04	1	5/28/1986	P	--	--	0.66	1	3.4	11	10	13	6.5	7.8	4.2	11	0.87	32	3.2	7	3.5	34	44
PA-5	8605111-05	1	5/28/1986	P	--	--	0.65	2.5	4.1	12	15	20	11	14	5.8	13	1.2	37	1.5	12	10	33	53
PL3.5W	PL3.5W-2062	5	4/17/1990	P	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.88	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PL4C	PL4C-2063	5	4/17/1990	P	--	5.7	1.9	3.2	12	30	32	44	25	22	31	41	3.2	48	5.3	18	2.4	70	150
PL4N	PL4N-2064	5	4/23/1990	P	--	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.094	0.11	0.11	<0.10	<0.10	<0.10	0.13	<0.10	<0.10	<0.10	0.1	0.35
PL5E	PL5E-2065	5	4/17/1990	P	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.88	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.5
S-1.5	S-1.5-1	2	11/13/1989	P	--	--	<0.20	<1.2	<0.080	9.2	5.5	6.8	2.7	4	<0.40	<0.12	<0.40	15	<0.20	<0.12	<1.2	1.5	14
S-2	S-2-3	5	11/10/1989	P	--	--	<0.10	<0.60	<0.040	<0.060	<0.10	<0.10	<0.060	<0.060	<0.20	<0.060	<0.20	<0.20	3.9	<0.060	<0.60	0.88	<0.20
S-3	S-3-3	7	11/10/1989	P	--	--	1.9	<3.0	0.58	29	15	19	9.6	7.3	0	<0.30	<1.0	58	36	0	15	5.3	28
SS-POT-2	SS-POT-2	0.5	2/27/1991	P	--	--	38	26	4.4	13	13	23	11	11	7.1	14	17	38	6.9	7.1	25	18	76
SS-POT-4	SS-POT-4	0.5	2/27/1991	P	--	--	<0.53	<0.53	<0.053	<0.053	<0.053	<0.059	<0.053	<0.13	<0.053	<0.053	<0.13	<0.13	<0.053	<0.053	<0.53	<0.053	<0.13
TB3-001	TB03-001@0-1	1	11/25/1997	P	--	--	<0.10	<0.20	<0.10	<0.10	<0.050	<0.052	<0.10	<0.10	<0.10	<0.10	<0.050	<0.10	<0.10	<0.060	<0.20	<0.10	<0.10
TB3-001	TB03-001@5-6	6	11/25/1997	P	--	--	<0.10	<0.20	<0.10	<0.10	<0.050	<0.052	<0.10	<0.10	<0.10	<0.10	<0.050	<0.10	<0.10	<0.060	<0.20	<0.10	<0.10
TB3-002	TB03-002@0-1	1	11/24/1997	P	--	--	<2.5	<5.0	<2.5	2.6	3.9 J	4.9	<2.5	<2.5	<2.5	3	<1.3	6.9 J	<2.5	2.5	<5.0	3.7	7.3 J
TB3-002	TB03-002@0-1D	1	11/24/1997	FD	--	--	<2.0	<4.0	<2.0	<2.0	1.5 J	2	<2.0	<2.0	<2.0	<2.0	<1.0	2.9 J	<2.0	<1.2	<4.0	<2.0	2.7 J
TB3-002	TB03-002@6-7	7	11/24/1997	P	--	--	<0.10	<0.20	<0.10	<0.10	<0.050	0.077	<0.10	0.1	<0.10	<0.10	0.097	<0.10	<0.10	<0.060	<0.20	<0.10	<0.10

TABLE A-2
ANALYTICAL DATA: POLYCYCLIC AROMATIC HYDROCARBONS IN SOIL
TANK FARM AREA, POTRERO POWER PLANT
SAN FRANCISCO, CALIFORNIA

Location ID	Sample ID	Bottom Depth (feet bgs)	Sample Date	Sample Type	1-Methyl-naphthalene	2-Methyl-naphthalene	Acenaph-thene	Acenaph-thylene	Anthracene	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(a) pyrene Equivalent [a]	Benzo(b) fluoranthene	Benzo(g,h,i) perylene	Benzo(k) fluoranthene	Chrysene	Dibenz(a,h) anthracene	Fluor-anthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phen-anthrene	Pyrene
Benzo(a)pyrene Potency Equivalency Factor (PEF) [b]					NA	NA	NA	NA	NA	0.1	1	NA	0.1	NA	0.01	0.001	1	NA	NA	0.1	NA	NA	NA
TB3-002	TB03-002@18-19	19	11/24/1997	P	--	--	<0.10	<0.20	<0.10	<0.10	<0.050	<0.052	<0.10	<0.10	<0.10	<0.10	<0.050	<0.10	<0.10	<0.060	<0.20	<0.10	<0.10
TB3-003	TB03-003@0-1	1	11/18/1997	P	--	--	<1.0	<2.0	<1.0	<1.0	<0.50	<0.52	<1.0	<1.0	<1.0	<1.0	<0.50	**1.5**	<1.0	<0.60	<2.0	<1.0	**1.5**
TB3-003	TB03-003@5-6	6	11/24/1997	P	--	--	<5.0	<10	<5.0	<5.0	**2.5 J**	**3.9**	<5.0	<5.0	<5.0	<5.0	<2.5	<5.0	<5.0	<3.0	<0.20	<5.0	**7.2 J**
TB3-003	TB03-003@9-10	10	11/24/1997	P	--	--	<0.10	<0.20	<0.10	<0.10	<0.050	**0.08**	<0.10	<0.10	<0.10	<0.10	**0.11 J**	**0.29 J**	<0.10	<0.060	<10	<0.10	**0.50 J**
TB3-007	TB03-007@0-1	1	11/24/1997	P	--	--	<5.0	<10	<5.0	<5.0	<2.5	<2.6	<5.0	<5.0	<5.0	<5.0	<2.5	**5.0 J**	<5.0	<3.0	<10	**15 J**	<5.0
TB3-007	TB03-007@6-8	8	11/24/1997	P	--	--	<2.0	<4.0	<2.0	**3.2**	**5.1**	**7.3**	**4.2**	**5.1**	**2.3**	**4.3**	**2.3**	**2.6**	<2.0	**4.2**	<4.0	<2.0	**3.9**
TB3-007	TB03-007@10-11	11	11/24/1997	P	--	--	<0.50	<1.0	<0.50	<0.50	**0.72**	**0.93**	<0.50	**0.64**	<0.50	<0.50	<0.25	**1.1**	<0.50	**0.91**	<1.0	<0.50	**1.4**
TB3-008	TB03-008@0-1	1	11/25/1997	P	--	--	<2.0	<4.0	<2.0	<2.0	<1.0	**1.3**	<2.0	**2.4 J**	<2.0	<2.0	**1.2 J**	**2.4**	<2.0	<1.2	<4.0	<2.0	**2.8 J**
TB3-008	TB03-008@5-6	6	11/25/1997	P	--	--	<0.10	<0.20	<0.10	<0.10	<0.050	<0.052	<0.10	<0.10	<0.10	<0.10	<0.050	<0.10	<0.10	<0.060	<0.20	<0.10	<0.10
TB3-008	TB03-008@10-11	11	11/25/1997	P	--	--	<20	<40	<20	<20	**23 J**	**30**	<20	**25 J**	<20	<20	<10	**59**	<20	**19 J**	<40	<20	**46 J**
TB3-009	TB03-009@0-1	1	11/25/1997	P	--	--	<100	<200	<100	<100	<50	<52	<100	<100	<100	<100	<50	**130**	<100	<60	<200	**120**	**180**
TB3-009	TB03-009@6-8	8	11/25/1997	P	--	--	<0.60	<1.2	<0.60	<0.60	<0.30	<0.31	<0.60	<0.60	<0.60	<0.60	<0.30	<0.60	<0.60	<0.36	<1.2	<0.60	<0.60
TB3-009	TB03-009@6-8D	8	11/25/1997	FD	--	--	<0.60	<1.2	<0.60	<0.60	<0.30	<0.31	<0.60	<0.60	<0.60	<0.60	<0.30	<0.60	<0.60	<0.36	<1.2	<0.60	<0.60
TB3-012	TB0312@25-26	26	2/27/1998	P	--	--	<0.050	<2.0	<0.10	<0.10	<0.050	<0.052	<0.10	<0.10	<0.10	<0.10	<0.050	<0.10	<0.10	<0.060	<0.10	<0.10	<0.10
TB3-012	TB0312@25-26D	26	2/27/1998	FD	--	--	<0.050	<2.0	<0.10	<0.10	<0.050	<0.052	<0.10	<0.10	<0.10	<0.10	<0.050	<0.10	<0.10	<0.060	<0.10	<0.10	<0.10
TB3-012	TB0312@29.5-30	30	2/27/1998	P	--	--	<0.050	<2.0	<0.10	<0.10	<0.050	<0.052	<0.10	<0.10	<0.10	<0.10	<0.050	<0.10	<0.10	<0.060	<0.10	<0.10	<0.10
TB3-012	TB0312@33-34	34	2/27/1998	P	--	--	<0.050	<2.0	<0.10	<0.10	<0.050	<0.052	<0.10	<0.10	<0.10	<0.10	<0.050	<0.10	<0.10	<0.060	<0.10	<0.10	<0.10
TFSS-01	TFSS-01	0	12/8/2017	P	<0.010	**0.013**	<0.010	**0.054**	**0.034**	**0.2**	**0.3**	**0.39**	**0.2**	**0.26**	**0.17**	**0.25**	**0.038**	**0.32**	<0.010	**0.17**	**0.087**	**0.13**	**0.62**

Notes:
All analytical results are wet weight results in milligrams per kilogram (mg/kg), with the exception of soil samples MW-POT-10, MW-POT-11, MW-POT-12, SS-POT-2, and SS-POT-4, which are dry weight results.
Detected results are presented in **bold**.
-- = Not analyzed for
< = Analyte was not detected at the given detection limit
bgs = Below ground surface
FD = Field duplicate
J = Estimated value
P = Primary sample
[a] BaPe is calculated as the summation of the potency equivalency factors (PEFs) multiplied by the concentrations of the CPAHs. One-half the detection limit value was used in the BaPe concentration calculations for non-detect results.
[b] PEFs eveloped by California Environmental Protection Agency (Cal/EPA) Office of Environmental Health Hazard Assessment (OEHHA) (Cal/EPA, 1993; OEHHA, 2002) and recommended in Department of Toxic Substances Control (DTSC) guidance (DTSC, 2009).

References:
California Environmental Protection Agency (Cal/EPA). 1993. Benzo(a)pyrene as a Toxic Air Contaminant. Part B. Health Effects of Benzo(a)pyrene. Air Toxicology and Epidemiology Section, Berkeley, CA.
Office of Environmental Health Hazard Assessment (OEHHA). Air Toxics Hot Spot Guidelines – Part II Technical Support Document for Describing Available Cancer Potency Factors.
Department of Toxic Substances Control (DTSC). 2009. Use of the Northern and Southern California Polynuclear Aromatic Hydrocarbon (PAH) Studies in the Manufactured Gas Plant Site Cleanup Process. 1 July.

TABLE A-3
ANALYTICAL DATA: TOTAL PETROLEUM HYDROCARBONS IN SOIL
TANK FARM AREA, POTRERO POWER PLANT
SAN FRANCISCO, CALIFORNIA

Location ID	Sample ID	Bottom Depth (feet bgs)	Sample Date	Sample Type	TPH (C9-C40)	TPH-diesel	TPH-gasoline	TPH-fuel oil	TPH-motor oil
B-2-1989	B-2-1-2054	0.5	5/4/1989	P	--	--	--	**300**	--
B-2-1989	B-2-2-2056	1.5	5/4/1989	P	--	--	--	**14**	--
B-2-1989	B-2-3-2058	2.5	5/4/1989	P	--	--	--	**31**	--
B-2-1989	B-2-4-2059	3.5	4/24/1989	P	--	--	--	<10	--
GB-127	GB-127-2.0	2	11/13/2017	P	--	**310**	--	--	**430**
GB-127	GB-127-6.0	6	12/7/2017	P	--	**55**	--	--	**73**
GB-128	GB-128-10.0	10	12/7/2017	P	--	<5	--	--	<25
GB-128	GB-128-2.0	2	11/13/2017	P	--	**700**	--	--	**1100**
GB-128	GB-128-5.0	5	12/6/2017	P	--	**3100**	--	--	**3800**
GB-129	GB-129-18.75	18.75	11/20/2017	P	--	**7.4**	--	--	<25
GB-129	GB-129-2.0	2	11/8/2017	P	--	**760**	--	--	**1200**
GB-129	GB-129-22.5	22.5	11/20/2017	P	--	**1100**	--	--	**1600**
GB-129	GB-129-5.0	5	11/20/2017	P	--	**18**	--	--	**33**
GB-129	GB-129-9.25	9.25	11/20/2017	P	--	**86**	--	--	**140**
GB-130	GB-130-10.0	10	11/15/2017	P	--	**750 J**	--	--	**1400 J**
GB-130	GB-130-15.0	15	11/15/2017	P	--	**540**	--	--	**970**
GB-130	GB-130-19.0	19	11/15/2017	P	--	**280**	--	--	**370**
GB-130	GB-130-2.0	2	11/14/2017	P	--	**180**	--	--	**250**
GB-130	GB-130-25.75	25.75	11/15/2017	P	--	**32000**	--	--	**33000**
GB-130	GB-130-5.0	5	11/15/2017	P	--	**790**	--	--	**1900**
GB-131	GB-131-12.5	12.5	12/4/2017	P	--	**730 J**	--	--	**1200 J**
GB-131	GB-131-16.5	16.5	12/4/2017	P	--	**300**	--	--	**510**
GB-131	GB-131-2.0	2	11/13/2017	P	--	**570**	--	--	**670**
GB-131	GB-131-28.0	28	12/4/2017	P	--	**720**	--	--	**810**
GB-131	GB-131-6.5	6.5	12/4/2017	P	--	**800**	--	--	**1200**
GB-131	GB-131-9.0	9	12/4/2017	P	--	**1000**	--	--	**1300**
GB-132	GB-132-10.0	10	11/13/2017	P	--	**440**	--	--	**680**
GB-132	GB-132-15.0	15	11/13/2017	P	--	**210 J**	--	--	**580 J**
GB-132	GB-132-2.0	2	11/13/2017	P	--	**710**	--	--	**840**
GB-132	GB-132-20.0	20	11/13/2017	P	--	**250 J**	--	--	**490 J**
GB-132	GB-132-25.0	25	11/14/2017	P	--	**240**	--	--	**550**
GB-132	GB-132-5.0	5	11/13/2017	P	--	**320**	--	--	**420**
GB-133	GB-133-10.0	10	11/20/2017	P	--	<5	--	--	<25
GB-133	GB-133-2.0	2	11/17/2017	P	--	**190**	--	--	**370**
GB-133	GB-133-5.0	5	11/17/2017	P	--	**6**	--	--	<25
GB-134	GB-134-10.0	10	11/21/2017	P	--	**670**	--	--	**1000**
GB-134	GB-134-15.5	15.5	11/21/2017	P	--	<5	--	--	<25
GB-134	GB-134-2.0	2	11/15/2017	P	--	**1900**	--	--	**2400**
GB-134	GB-134-5.0	5	11/20/2017	P	--	**1200**	--	--	**1900**
GB-134A	GB-134A-5.0	5	2/20/2018	P	--	**580**	--	--	**880**
GB-135	GB-135-10.5	10.5	11/20/2017	P	--	**190**	--	--	**270**
GB-135	GB-135-14.5	14.5	11/20/2017	P	--	**150**	--	--	**250**
GB-135	GB-135-19.0	19	11/20/2017	P	--	**140**	--	--	**200**
GB-135	GB-135-2.0	2	11/17/2017	P	--	**170**	--	--	**600**
GB-135	GB-135-5.5	5.5	11/17/2017	P	--	**97**	--	--	**180**
GB-136	GB-136-10.0	10	11/13/2017	P	--	<5	--	--	<25
GB-136	GB-136-2.0	2	11/13/2017	P	--	**320**	--	--	**520**
GB-136	GB-136-5.0	5	11/13/2017	P	--	**480**	--	--	**640**
GB-137	GB-137-2.0	2	11/15/2017	P	--	**11**	--	--	<25
GB-137	GB-137-5.0	5	12/7/2017	P	--	**70**	--	--	**67**
GB-137	GB-137-9.0	9	12/7/2017	P	--	**5.5**	--	--	<25
GB-138	GB-138-2.0	2	11/9/2017	P	--	**210**	--	--	**360**
GB-138A	GB-138A-5.0	5	1/2/2018	P	--	**15**	--	--	**26**
GB-139	GB-139-10.0	10	11/16/2017	P	--	**12**	--	--	<25
GB-139	GB-139-3.0	3	11/15/2017	P	--	**680**	--	--	**1100**
GB-139	GB-139-5.0	5	11/15/2017	P	--	**7.3**	--	--	<25
GB-140	GB-140-10.0	10	12/6/2017	P	--	**61**	--	--	**67 J**
GB-140	GB-140-2.0	2	11/9/2017	P	--	**230**	--	--	**530**
GB-140	GB-140-4.75	4.75	11/9/2017	P	--	**1300**	--	--	**2400**
GB-141	GB-141-12.5	12.5	12/7/2017	P	--	<5.1	--	--	<25
GB-141	GB-141-2.0	2	11/17/2017	P	--	**9.2**	--	--	<25
GB-141	GB-141-5.0	5	11/21/2017	P	--	**980**	--	--	**1500**
GB-141	GB-141-7.5	7.5	12/7/2017	P	--	**1000**	--	--	**1300 J**
GB-142	GB-142-10.0	10	11/8/2017	P	--	**4500**	--	--	**2700**
GB-142	GB-142-15.0	15	11/8/2017	P	--	**1600**	--	--	**820**
GB-142	GB-142-2.0	2	11/8/2017	P	--	<5	--	--	<25
GB-142	GB-142-20.0	20	11/8/2017	P	--	**360**	--	--	**160**
GB-142	GB-142-23.0	23	11/8/2017	P	--	**6.9**	--	--	<25

TABLE A-3
ANALYTICAL DATA: TOTAL PETROLEUM HYDROCARBONS IN SOIL
TANK FARM AREA, POTRERO POWER PLANT
SAN FRANCISCO, CALIFORNIA

Location ID	Sample ID	Bottom Depth (feet bgs)	Sample Date	Sample Type	TPH (C9-C40)	TPH-diesel	TPH-gasoline	TPH-fuel oil	TPH-motor oil
GB-142	GB-142-5.0	5	11/8/2017	P	--	**300**	--	--	**500**
GB-143	GB-143-10.0	10	11/9/2017	P	--	**15000**	--	--	**9900**
GB-143	GB-143-10.5	10.5	11/9/2017	P	--	**6000**	--	--	**6100**
GB-143	GB-143-13.0	13	11/9/2017	P	--	<4.9	--	--	<25
GB-143	GB-143-2.0	2	11/9/2017	P	--	**5.6**	--	--	<25
GB-143	GB-143-5.0	5	11/9/2017	P	--	**660**	--	--	**960**
GB-144	GB-144-10.0	10	11/10/2017	P	--	<5	--	--	<25
GB-144	GB-144-2.0	2	11/10/2017	P	--	**510**	--	--	**750**
GB-144	GB-144-5.5	5.5	11/10/2017	P	--	**590**	--	--	**920**
GB-145	GB-145-14.0	14	11/14/2017	P	--	**6600**	--	--	**4600**
GB-145	GB-145-19.0	19	11/14/2017	P	--	<4.9	--	--	<25
GB-145	GB-145-2.0	2	11/14/2017	P	--	<4.9	--	--	<25
GB-145	GB-145-23.0	23	11/14/2017	P	--	<5.1	--	--	<25
GB-145	GB-145-5.0	5	11/14/2017	P	--	<5	--	--	<25
GB-145	GB-145-7.0	7	11/14/2017	P	--	<5.1	--	--	<25
GB-146	GB-146-1.0	1	12/5/2017	P	--	**1500**	--	--	**3000**
GB-146	GB-146-4.0	4	12/5/2017	P	--	**52000**	--	--	**39000**
GB-146A	GB-146A-11.0	11	1/5/2018	P	--	**900**	--	--	**960**
GB-146A	GB-146A-7.5	7.5	1/5/2018	P	--	**3900**	--	--	**4700**
GB-147	GB-147-12.5	12.5	11/10/2017	P	--	**2000**	--	--	**1200**
GB-147	GB-147-15.0	15	11/10/2017	P	--	**1400**	--	--	**770**
GB-147	GB-147-2.0	2	11/10/2017	P	--	**50**	--	--	**150**
GB-147	GB-147-5.0	5	11/10/2017	P	--	**2600**	--	--	**3100**
GB-147	GB-147-9.25	9.25	11/10/2017	P	--	**8400**	--	--	**7800**
GB-148	GB-148-10.0	10	11/7/2017	P	--	**680**	--	--	**570**
GB-148	GB-148-2.0	2	11/7/2017	P	--	**90**	--	--	**110**
GB-148	GB-148-5.0	5	11/7/2017	P	--	**900**	--	--	**1200**
GB-148	GB-148-7.5	7.5	11/7/2017	P	--	**16000**	--	--	**16000**
GB-149	GB-149-10.5	10.5	11/21/2017	P	--	**6600**	--	--	**12000**
GB-149	GB-149-14.5	14.5	11/21/2017	P	--	**1800**	--	--	**2500**
GB-149	GB-149-2.0	2	11/14/2017	P	--	**8.3**	--	--	**28**
GB-149	GB-149-20.5	20.5	11/21/2017	P	--	<5	--	--	<25
GB-149	GB-149-24.5	24.5	11/21/2017	P	--	<5	--	--	<25
GB-149	GB-149-5.0	5	11/21/2017	P	--	**18**	--	--	**44**
GB-150	GB-150-10.0	10	11/10/2017	P	--	**3500**	--	--	**4000**
GB-150	GB-150-13.0	13	11/10/2017	P	--	**2000**	--	--	**1800**
GB-150	GB-150-14.0	14	11/10/2017	P	--	**1200**	--	--	**1100**
GB-150	GB-150-2.0	2	11/9/2017	P	--	**38**	--	--	**96**
GB-150	GB-150-4.5	4.5	11/9/2017	P	--	**140**	--	--	**240**
GB-151	GB-151-15.0	15	12/5/2017	P	--	**28000**	--	--	**29000**
GB-151	GB-151-19.0	19	12/5/2017	P	--	**36000**	--	--	**28000**
GB-151	GB-151-2.0	2	11/8/2017	P	--	**18**	--	--	**36**
GB-151	GB-151-26.0	26	12/6/2017	P	--	**740**	--	--	**780**
GB-151	GB-151-5.0	5	12/4/2017	P	--	**350**	--	--	**610**
GB-151	GB-151-9.5	9.5	12/5/2017	P	--	**14000**	--	--	**12000**
GB-152	GB-152-10.5	10.5	11/21/2017	P	--	**30**	--	--	**64**
GB-152	GB-152-13.5	13.5	11/21/2017	P	--	**63000**	--	--	**77000**
GB-152	GB-152-16.5	16.5	11/21/2017	P	--	**13000**	--	--	**17000**
GB-152	GB-152-19.0	19	11/21/2017	P	--	**150**	--	--	**190**
GB-152	GB-152-2.0	2	11/9/2017	P	--	**5.2**	--	--	<25
GB-152	GB-152-4.5	4.5	11/21/2017	P	--	**97 J**	--	--	**180**
GB-153	GB-153-1.5	1.5	12/5/2017	P	--	**110**	--	--	**180**
GB-153	GB-153-13.0	13	12/5/2017	P	--	**6700**	--	--	**6000**
GB-153	GB-153-18.0	18	12/5/2017	P	--	**4700**	--	--	**3500**
GB-153	GB-153-20.0	20	12/5/2017	P	--	**480**	--	--	**280**
GB-153	GB-153-5.0	5	11/21/2017	P	--	**1500 J**	--	--	**2400 J**
GB-153	GB-153-9.0	9	12/5/2017	P	--	**2200**	--	--	**2500**
GB-154	GB-154-19.0	19	12/6/2017	P	--	**100**	--	--	**29**
GB-154	GB-154-2.0	2	11/16/2017	P	--	**14**	--	--	**48**
GB-154	GB-154-5.0	5	11/16/2017	P	--	**32**	--	--	**130**
GB-154	GB-154-9.5	9.5	12/4/2017	P	--	**400**	--	--	**760**
GB-154A	GB-154A-2.0	2	1/5/2018	P	--	**3000**	--	--	**4400**
GB-154A	GB-154A-9.5	9.5	1/5/2018	P	--	**1400**	--	--	**2100**
GB-155	GB-155-2.0	2	11/16/2017	P	--	**26**	--	--	**44**
GB-155A	GB-155A-15.0	15	1/4/2018	P	--	**670**	--	--	**750**
GB-155A	GB-155A-5.0	5	1/2/2018	P	--	**420**	--	--	**770**
GB-155A	GB-155A-9.0	9	1/4/2018	P	--	**21000**	--	--	**24000**
GB-156	GB-156-2.0	2	11/16/2017	P	--	**160**	--	--	**340**

TABLE A-3
ANALYTICAL DATA: TOTAL PETROLEUM HYDROCARBONS IN SOIL
TANK FARM AREA, POTRERO POWER PLANT
SAN FRANCISCO, CALIFORNIA

Location ID	Sample ID	Bottom Depth (feet bgs)	Sample Date	Sample Type	TPH (C9-C40)	TPH-diesel	TPH-gasoline	TPH-fuel oil	TPH-motor oil
GB-156A	GB-156A-5.0	5	1/2/2018	P	--	**110**	--	--	**260**
GB-157	GB-157-10.0	10	1/8/2018	P	--	**310**	--	--	**430**
GB-158	GB-158-10.0	10	1/5/2018	P	--	<5	--	--	<25
GB-158	GB-158-15.0	15	1/5/2018	P	--	**3100**	--	--	**4100**
GB-158	GB-158-20.0	20	1/5/2018	P	--	<5	--	--	<25
GB-159	GB-159-10.0	10	1/4/2018	P	--	**37**	--	--	**56**
GB-159	GB-159-8.5	8.5	1/4/2018	P	--	**1600**	--	--	**2100**
GB-161	GB-161-15.0	15	1/5/2018	P	--	**630**	--	--	**560**
GB-161	GB-161-9.25	9.25	1/5/2018	P	--	**60000**	--	--	**47000**
GB-162	GB-162-15.0	15	1/4/2018	P	--	**5300**	--	--	**6100**
GB-162	GB-162-19.5	19.5	1/4/2018	P	--	**2300**	--	--	**2800**
GB-162	GB-162-24.5	24.5	1/4/2018	P	--	**6.7**	--	--	<25
GB-162	GB-162-9.5	9.5	1/4/2018	P	--	**130000**	--	--	**54000**
GB-163	GB-163-14.0	14	1/3/2018	P	--	**34000**	--	--	**38000**
GB-163	GB-163-23.0	23	1/3/2018	P	--	**940**	--	--	**1000**
GB-163	GB-163-28.5	28.5	1/3/2018	P	--	<4.9	--	--	<25
GB-163	GB-163-9.0	9	1/3/2018	P	--	**670**	--	--	**1100**
GB-164	GB-164-7.5	7.5	1/3/2018	P	--	**87000**	--	--	**77000**
GB-166	GB-166-14.5	14.5	1/3/2018	P	--	**6200**	--	--	**5600**
GB-166	GB-166-20.5	20.5	1/3/2018	P	--	**23**	--	--	<25
GB-166	GB-166-5.5	5.5	1/2/2018	P	--	**43**	--	--	**100**
GB-166	GB-166-8.75	8.75	1/3/2018	P	--	**4900**	--	--	**4000**
GB-167	GB-167-14.75	14.75	1/12/2018	P	--	**2600**	--	--	**2800**
GB-167	GB-167-19.75	19.7800007	1/12/2018	P	--	**250**	--	--	**210**
GB-167	GB-167-5.5	5.5	1/12/2018	P	--	**310**	--	--	**450**
GB-167	GB-167-9.0	9	1/12/2018	P	--	**15000**	--	--	**13000**
GB-169	GB-169-2.0	2	1/10/2018	P	--	**6**	--	--	<25
GB-169	GB-169-5.5	5.5	1/10/2018	P	--	**21**	--	--	**26**
GB-170	GB-170-11.5	11.5	1/11/2018	P	--	**3200**	--	--	**1900**
GB-170	GB-170-6.0	6	1/11/2018	P	--	**20000**	--	--	**25000**
GB-174	GB-174-2.0	2	2/21/2018	P	--	**310 J**	--	--	**490**
GB-174	GB-174-5.5	5.5	2/21/2018	P	--	**2200**	--	--	**1900**
MW-POT-10	MW-POT-10-10	10.5	2/27/1991	P	<0.5	<10	<10	--	--
MW-POT-10	MW-POT-10-6	6.5	2/27/1991	P	<0.5	<10	**40**	--	--
MW-POT-11	MW-POT-11-2	2.5	3/5/1991	P	--	<10	<10	--	--
MW-POT-11	MW-POT-11-6	6.5	3/5/1991	P	--	<10	<10	--	--
MW-POT-12	MW-POT-12-10.5	11	2/26/1991	P	**0.61**	**9500**	**8200**	--	--
MW-POT-12	MW-POT-12-15.5	16	2/26/1991	P	<0.5	**260**	**3000**	--	--
MW-POT-12	MW-POT-12-3	3.5	2/26/1991	P	<0.5	**26**	**1400**	--	--
MW-POT-12	MW-POT-12-5.5	6	2/26/1991	P	**0.88**	**780**	**900**	--	--
PL3.5W	PL3.5W-2062	5	4/17/1990	P	--	**45**	--	--	--
PL4C	PL4C-2063	5	4/17/1990	P	--	**620**	--	--	--
PL4N	PL4N-2064	5	4/23/1990	P	--	**3.3**	--	--	--
PL5E	PL5E-2065	5	4/17/1990	P	--	**240**	--	--	--
S-1	S-1.5-1	2	11/13/1989	P	--	**186**	<10	--	**2260**
S-1	S-1-1	2	11/10/1989	P	--	**30**	<10	--	**22**
S-1.5	S-1-2	2	11/10/1989	FD	**425**	**205**	<10	--	**220**
S-2	S-2-1	2.5	11/10/1989	P	<10	<10	<10	--	<10
S-2	S-2-2	3	11/10/1989	P	**35**	**13**	<10	--	**22**
S-2	S-2-3	5	11/10/1989	P	**1870**	**1870**	<10	--	<10
S-2	S-2-4	10	11/10/1989	P	**172**	**10**	<10	--	**162**
S-3	S-3-1	3	11/10/1989	P	**80**	<10	<10	--	**80**
S-3	S-3-2	5	11/10/1989	P	**21**	**21**	<10	--	<10
S-3	S-3-3	7	11/10/1989	P	**676**	**456**	<10	--	**220**
S-3	S-3-4	8	11/10/1989	P	**304**	**218**	<10	--	**84**
SS-POT-2	SS-POT-2	0.5	2/27/1991	P	<0.5	<10	<10	--	--
SS-POT-4	SS-POT-4	0.5	2/27/1991	P	<0.5	<10	**31**	--	--
TB3-001	TB03-001@0-1	1	11/25/1997	P	<10	--	--	--	--
TB3-001	TB03-001@5-6	6	11/25/1997	P	<10	--	--	--	--
TB3-002	TB03-002@0-1	1	11/24/1997	P	**198**	--	--	--	--
TB3-002	TB03-002@0-1D	1	11/24/1997	FD	**178**	--	--	--	--
TB3-002	TB03-002@18-19	19	11/24/1997	P	<10	--	--	--	--
TB3-002	TB03-002@6-7	7	11/24/1997	P	**136**	--	--	--	--
TB3-003	TB03-003@0-1	1	11/18/1997	P	**449**	--	--	--	--
TB3-003	TB03-003@5-6	6	11/24/1997	P	**156**	--	--	--	--
TB3-003	TB03-003@9-10	10	11/24/1997	P	**199**	--	--	--	--
TB3-007	TB03-007@0-1	1	11/24/1997	P	**3650**	--	--	--	--
TB3-007	TB03-007@10-11	11	11/24/1997	P	**2380**	--	--	--	--

TABLE A-3
ANALYTICAL DATA: TOTAL PETROLEUM HYDROCARBONS IN SOIL
TANK FARM AREA, POTRERO POWER PLANT
SAN FRANCISCO, CALIFORNIA

Location ID	Sample ID	Bottom Depth (feet bgs)	Sample Date	Sample Type	TPH (C9-C40)	TPH-diesel	TPH-gasoline	TPH-fuel oil	TPH-motor oil
TB3-007	TB03-007@6-8	8	11/24/1997	P	**204**	--	--	--	--
TB3-008	TB03-008@0-1	1	11/25/1997	P	<20	--	--	--	--
TB3-008	TB03-008@10-11	11	11/25/1997	P	**959 J**	--	--	--	--
TB3-008	TB03-008@5-6	6	11/25/1997	P	<10	--	--	--	--
TB3-009	TB03-009@0-1	1	11/25/1997	P	**2910**	--	--	--	--
TB3-009	TB03-009@6-8	8	11/25/1997	P	<60	--	--	--	--
TB3-009	TB03-009@6-8D	8	11/25/1997	FD	<60	--	--	--	--
TB3-012	TB0312@25-26	26	2/27/1998	P	**6.9 J**	--	--	--	--
TB3-012	TB0312@25-26D	26	2/27/1998	FD	**3.5 J**	--	--	--	--
TB3-012	TB0312@29.5-30	30	2/27/1998	P	**1.2 J**	--	--	--	--
TB3-012	TB0312@33-34	34	2/27/1998	P	**0.87 J**	--	--	--	--
TFSS-01	TFSS-01	0	12/8/2017	P	--	**65**	--	--	**140**

Notes:
All analytical results are wet weight results in milligrams per kilogram (mg/kg).
Detected results are presented in **bold**.
-- = Not analyzed for
< = Analyte was not detected at the given detection limit
bgs = Below ground surface
FD = Field duplicate
J = Estimated value
P = Primary sample

TABLE A-4
ANALYTICAL DATA: METALS IN SOIL
TANK FARM AREA, POTRERO POWER PLANT
SAN FRANCISCO, CALIFORNIA

Location ID	Sample ID	Bottom Depth (feet bgs)	Sample Date	Sample Type	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
B-2-1989	B-2-1-2053	0.5	4/24/1989	P	<100	4.3	90	<1.0	--	<10	40	10	60	110	0.5	10	90	0.2	8	<50	40	530
B-2-1989	B-2-2-2055	1.5	4/24/1989	P	<100	5.7	100	<1.0	--	<10	60	10	40	90	0.4	10	90	0.1	6	<50	40	70
B-2-1989	B-2-3-2057	2.5	4/24/1989	P	<100	5.2	140	<1.0	--	<10	210	30	40	130	0.03	20	450	0.2	<5.0	<50	50	70
B-2-1989	B-2-4-2059	3.5	4/24/1989	P	<100	5.1	110	<1.0	--	<10	460	40	40	20	0.03	20	900	0.1	<5.0	<50	30	80
GB-127	GB-127-2.0	2	11/13/2017	P	<0.74	5.5	66	<0.25	--	0.51	630	56	15	320	0.17	<0.25	1,300	<0.74	<0.25	1.3	25	140
GB-127	GB-127-6.0	6	12/7/2017	P	<0.76 R	3.6	4	<0.25	--	<0.51	1,200	74 J	6.1 J	7.4 J	<0.082	<0.25	1,500	<0.76	<0.25	1.9	26	19
GB-128	GB-128-0.5	0.5	11/13/2017	P	--	--	--	--	--	--	--	--	--	19	--	--	--	--	--	--	--	--
GB-128	GB-128-2.0	2	11/13/2017	P	<0.74	5.7	190	0.29	--	0.6	220	27	71	120	1.2	<0.25	430	<0.74	<0.25	<0.74	42	420
GB-128	GB-128-5.0	5	12/6/2017	P	<0.75 R	10	210	0.38	--	1.1	510	51 J	120 J	280 J	2.1	1.1	850	<0.75	<0.25	1.3	70	200
GB-128	GB-128-10.0	10	12/7/2017	P	<0.71 R	2.8	2.4	<0.24	--	<0.48	890	87 J	11 J	0.81 J	<0.079	<0.24	1,800	<0.71	<0.24	1.9	21	12
GB-129	GB-129-2.0	2	11/8/2017	P	<0.74	5.2	99	<0.25	--	0.5	420 J	36	47	220	0.44	<0.25	680	<0.74	<0.25	<0.74	35	96
GB-129	GB-129-5.0	5	11/20/2017	P	<0.73 R	4.4	28	<0.24	--	<0.49	250	74	6.5	15	<0.081	<0.24	1,700	<0.73	<0.24	1.5	5.6	35
GB-129	GB-129-9.25	9.25	11/20/2017	P	<0.73 R	6.5	99	<0.24	--	<0.48	380	50	43	77	0.12	<0.24	840	<0.73	<0.24	1.4	39	51
GB-129	GB-129-18.75	18.75	11/20/2017	P	<0.73 R	3.8	79	<0.24	--	<0.49	350	51	44	72	0.14	<0.24	840	<0.73	<0.24	0.96	42	72
GB-129	GB-129-22.5	22.5	11/20/2017	P	<0.71 R	7.5	83	<0.24	--	<0.48	250	25	95	110	1.1	0.98	390	<0.71	0.27	0.97	33	81
GB-130	GB-130-2.0	2	11/14/2017	P	<0.74 R	2.7	78	0.28	--	<0.50	100	14	30	60	0.85	<0.25	200	<0.74	<0.25	0.77 J	30	61
GB-130	GB-130-5.0	5	11/15/2017	P	<0.73	5.8	120	<0.24	--	0.73	300 J	33	83	120	0.6	<0.24	520	<0.73	<0.24	0.89	39	130 J
GB-130	GB-130-10.0	10	11/15/2017	P	<0.77	5.4	130	<0.26	--	<0.52	470 J	35	58	120	1.4	<0.26	570	<0.77	<0.26	1.1	42	110 J
GB-130	GB-130-15.0	15	11/15/2017	P	<0.74	3.5	95	<0.25	--	<0.50	190 J	25	32	83	0.14	<0.25	420	<0.74	<0.25	<0.74	36	39 J
GB-130	GB-130-19.0	19	11/15/2017	P	<0.74	10	230	0.29	--	1.6	110 J	15	120	260	0.72	0.32	170	<0.74	0.29	<0.74	30	410 J
GB-130	GB-130-25.75	25.75	11/15/2017	P	<0.77	7.1	120	<0.26	--	0.71	35 J	10	34	550	0.22	0.53	93	<0.77	<0.26	<0.77	24	120 J
GB-131	GB-131-2.0	2	11/13/2017	P	<0.73	6.7	150	0.28	--	0.7	390	36	76	150	1.8	<0.24	620	<0.73	<0.24	<0.73	70	160
GB-131	GB-131-6.5	6.5	12/4/2017	P	<0.77	5.5	170	0.28	--	0.71	240	31	72	140	1.1	<0.26	480	<0.77	<0.26	1.1	42	140
GB-131	GB-131-9.0	9	12/4/2017	P	8.4	5.4	170	<0.26	--	0.68	360	37	82	1,200	0.58	<0.26	650	<0.78	8.1	1.4	100	120
GB-131	GB-131-28.0	28	12/4/2017	P	<0.75	4.0	30	<0.25	--	<0.50	610	70	15	53	0.35	<0.25	1,400	<0.75	<0.25	1.8	22	32
GB-132	GB-132-2.0	2	11/13/2017	P	<0.72	5.1	130	0.29	--	<0.48	200	27	62	150	1.6	<0.24	440	<0.72	<0.24	<0.72	39	110
GB-132	GB-132-5.0	5	11/13/2017	P	<0.78	5.6	120	<0.26	--	<0.52	190	27	420	170	0.81	<0.26	500	<0.78	<0.26	<0.78	39	110
GB-132	GB-132-10.0	10	11/13/2017	P	<0.74	4.5	170	0.32	--	<0.49	250	29	60	150	9.7	<0.25	500	<0.74	<0.25	0.86	43	93
GB-132	GB-132-15.0	15	11/13/2017	P	<0.75	4.5	120	0.27	--	<0.50	210	25	53	160	1.5	<0.25	360	<0.75	<0.25	<0.75	37	110
GB-132	GB-132-20.0	20	11/13/2017	P	<0.71	4.0	93	<0.24	--	<0.48	280	37	50	93	1.3	<0.24	710	<0.71	<0.24	<0.71	32	83
GB-132	GB-132-25.0	25	11/14/2017	P	<0.74	2.6	100	0.25	--	<0.49	240	19	43	96	0.98	<0.25	260	<0.74	<0.25	<0.74	29	77
GB-133	GB-133-2.0	2	11/17/2017	P	<0.74	5.8	73 J	0.25	--	0.85	340	33	36	34	0.71	<0.25	480	<0.74	<0.25	0.95	44	59
GB-133	GB-133-5.0	5	11/17/2017	P	<0.77	2.5	19 J	<0.26	--	<0.52	470	38	58	2.9	<0.079	<0.26	490	<0.77	<0.26	1.2	44	36
GB-133	GB-133-10.0	10	11/20/2017	P	<0.71 R	8.0	59	0.51	--	0.57	510	45	35	4.3	<0.079	<0.24	680	<0.71	<0.24	<0.71	67	45
GB-134	GB-134-2.0	2	11/15/2017	P	<0.77	5.5	150	0.28	--	0.57	230 J	27	89	150	1.6	<0.26	400	<0.77	<0.26	<0.77	44	140 J
GB-134	GB-134-5.0	5	11/20/2017	P	<0.73 R	7.5	130	0.25	--	0.53	250	30	64	170	8.8	<0.24	490	<0.73	<0.24	<0.73	39	110
GB-134	GB-134-10.0	10	11/21/2017	P	<0.73	6.6	180	0.29	--	0.51	250	29	73	250	2.2	<0.24	440	<0.73	<0.24	<0.73	41	120
GB-134	GB-134-15.5	15.5	11/21/2017	P	<0.74	3.9	3.8	<0.25	--	<0.49	1,100	75	11	1.3	0.091	<0.25	1,500	<0.74	<0.25	2.3	24	13
GB-135	GB-135-2.0	2	11/17/2017	P	<0.76	3.7	75 J	<0.25	--	<0.51	210	23	20	31	0.088	<0.25	320	<0.76	<0.25	0.96	28	36
GB-135	GB-135-5.5	5.5	11/17/2017	P	<0.77	7.1	88 J	0.27	--	0.6	110	15	47	61	0.38	0.69	190	<0.77	<0.26	1	34	57
GB-135	GB-135-10.5	10.5	11/20/2017	P	<0.74 R	5.2	83	0.27	--	<0.49	360	36	37	130	0.4	<0.25	640	<0.74	<0.25	1.4	33	56
GB-135	GB-135-14.5	14.5	11/20/2017	P	<0.72 R	6.7	77	0.25	--	<0.48	420	45	39	130	0.22	<0.24	790	<0.72	<0.24	1.1	35	78
GB-135	GB-135-19.0	19	11/20/2017	P	<0.72 R	6.3	29	<0.24	--	<0.48	320	39	62	34	0.45	<0.24	670	<0.72	<0.24	0.96	33	48
GB-136	GB-136-0.5	0.5	11/13/2017	P	--	--	--	--	--	--	--	--	--	24	--	--	--	--	--	--	--	--
GB-136	GB-136-2.0	2	11/13/2017	P	<0.75	5.3	150	0.34	--	0.5	220	31	45	88	0.81	<0.25	420	<0.75	<0.25	<0.75	45	260
GB-136	GB-136-5.0	5	11/13/2017	P	<0.76	12.6	150	0.33	--	<0.51	200	30	42	190	8.2	0.29	440	<0.76	<0.25	<0.76	48	110
GB-136	GB-136-10.0	10	11/13/2017	P	<0.75	2.5	14	<0.25	--	<0.50	580	60	23	1.4	<0.079	<0.25	1,100	<0.75	<0.25	1.1	45	30
GB-137	GB-137-2.0	2	11/15/2017	P	<0.74	1.3	140	<0.25	--	<0.49	17 J	7.5	5.7	7.7	<0.082	<0.25	19	<0.74	<0.25	<0.74	30	57 J
GB-137	GB-137-5.0	5	12/7/2017	P	<0.78	4.5	35	<0.26	--	<0.52	1,000	96	22	82	0.42	<0.26	1,500	<0.78	<0.26	1.5	19	16
GB-137	GB-137-9.0	9	12/7/2017	P	<0.77	7.9	57	0.54	--	0.8	510	45	190	4.9	0.13	<0.26	740	<0.77	<0.26	1.7	96	53
GB-138	GB-138-2.0	2	11/9/2017	P	<0.77	3.8	130	0.4	--	<0.52	57 J	14	24	35	0.15	<0.26	96	<0.77	<0.26	<0.77	37	76
GB-138A	GB-138A-5.0	5	1/2/2018	P	<0.75 R	1.5	73	0.33	--	<0.50	340	42	36	9.9	<0.081	<0.25	610	<0.75	<0.25	<0.75	52	43
GB-139	GB-139-3.0	3	11/15/2017	P	<0.75	4.7	290	0.58	--	1.1	160	36	47	40	0.22	<0.25	180	<0.75	<0.25	1.4	140	63
GB-139	GB-139-5.0	5	11/15/2017	P	<0.75	1.7	140	0.44	--	0.6	200	31	29	4.8	<0.085	<0.25	300	<0.75	<0.25	0.78	68	36
GB-139	GB-139-10.0	10	11/16/2017	P	<0.74	2.9	130	0.38	--	0.58	200	29	26	5.5	<0.082	<0.25	280	<0.74	<0.25	<0.74	58	35
GB-140	GB-140-0.5	0.5	11/10/2017	P	--	--	--	--	--	--	--	--	--	6.6	--	--	--	--	--	--	--	--
GB-140	GB-140-2.0	2	11/9/2017	P	<0.73	3.6	64	0.26	--	<0.48	58 J	13	20	13	0.16	0.75	120	<0.73	<0.24	<0.73	31	61
GB-140	GB-140-4.75	4.75	11/9/2017	P	<0.73	3.0	120	0.44	--	<0.49	69 J	15	23	47	0.15	<0.24	120	<0.73	<0.24	<0.73	43	67
GB-140	GB-140-10.0	10	12/6/2017	P	<0.72	2.2	54	<0.24	--	<0.48	68	12	14	21 J	0.087	0.24	71	<0.72	<0.24	<0.72	48	44 J
GB-141	GB-141-2.0	2	11/17/2017	P	<0.74	5.5	42	0.31	--	0.64	42	9	8.9	4.3	<0.083	1.4	47	<0.74	<0.25	<0.74	30	33
GB-141	GB-141-5.0	5	11/21/2017	P	<0.74 R	4.2	260	0.36	--	0.66	120	24	65	180	0.3	<0.25	360	<0.74	<0.25	<0.74	76	120
GB-141	GB-141-7.5	7.5	12/7/2017	P	<0.78 R	3.3	370	0.41	--	0.86	170	32 J	56 J	94 J	0.2	<0.26	290	<0.78	<0.26	1.1	110	100
GB-142	GB-142-2.0	2	11/8/2017	P	<0.72	3.9	47	0.28	--	<0.48	39	6.2	7.5	3.5	0.11	0.9	41	<0.72	<0.24	<0.72	23	30
GB-142	GB-142-5.0	5	11/8/2017	P	<0.74	3.5	160	0.4	--	0.59	80	19	30	61	0.27	<0.25	150	<0.74	<0.25	<0.74	56	71
GB-142	GB-142-10.0	10	11/8/2017	P	<0.79	2.4	460	0.51	--	0.95	110	31	57	3.3	<0.081	<0.26	81	<0.79	<0.26	1.2	150	54
GB-142	GB-142-15.0	15	11/8/2017	P	<0.71	1.8	370	0.51	--	0.88	120	31	51	1.9	<0.086	<0.24	110	<0.71	<0.24	1.3	150	48