



Foundry/Corporate Office

7825 San Leandro Street
Oakland, CA 94621-2598
510/632-3467
510/632-8035 Fax

Los Angeles Service Center

15006 Nelson Avenue
City of Industry, CA 91744-4331
626/333-4882
626/333-8681 Fax

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Alameda County
Environmental Health

May 25, 2011

Mr. Jerry Wickham
Hazardous Materials Specialist
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Subject: Fuel Leak Case No. RO0000092 and Geotracker Global ID T0600100065 Site Management Plan, AB&I Foundry, 7825 San Leandro Street, Oakland California 94621

Dear Mr. Wickham:

AB&I respectfully submits the attached Site Management Plan for the AB&I Foundry Site located at 7825 San Leandro Street, Oakland, California.

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

Sincerely,

Dave Robinson
Engineering Manager

Attachment: Site Management Plan, AB&I Foundry, 7825 San Leandro Street, Oakland, California

SITE MANAGEMENT PLAN

**AB&I Foundry
7825 San Leandro Street
Oakland, California
01-ABI.001**

Prepared For:



Prepared By:



3451-C Vincent Road
Pleasant Hill, California 94523

May 25, 2011

Prepared By:

Kent R. Reynolds
Principal Geologist

Reviewed By:

Andrew Zdon, P.G., C.H.G.
Principal Hydrogeologist

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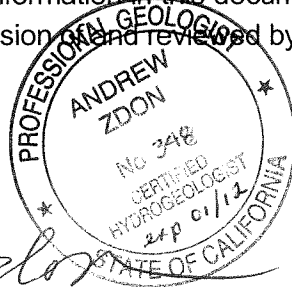
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CERTIFICATION

All hydrogeologic and geologic information in this document regarding the AB&I Foundry Site have been prepared under the supervision and reviewed by the certified professional whose signature appears below.



Andrew Zdon

Andrew Zdon, P.G., C.H.G.
Principal Hydrogeologist
The Source Group, Inc.

1.0 INTRODUCTION

On behalf of AB&I Foundry (AB&I), The Source Group, Inc. (SGI) has prepared this Site Management Plan (SMP) for the AB&I Site located at 7825 San Leandro Street in Oakland, California (Figure 1; Site). This SMP has been prepared in response to a letter submitted to AB&I by Alameda County Environmental Health (ACEH) dated April 28, 2011 (ACEH, 2011). The ACEH April 28, 2011 letter requests that *“In order to prevent potential future exposure to residual contamination and move the site towards case closure, we request that you now submit a draft Covenant and Environmental Restriction on Property (Deed Restriction) along with a Site Management Plan (SMP).”*

An administrative control in the form of a deed restriction will be implemented as part of the case closure. The deed restriction has been prepared under separate cover and specifies that the Site will be limited in development for commercial use. Article III, section 3.1, part f of the deed restriction states:

No Owners or Occupants of the Property or any portion thereof shall conduct any excavation work on the Property, unless expressly permitted in writing by the County. Any contaminated soils brought to the surface by 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. Notwithstanding the foregoing, Covenantor may perform routine landscaping and maintenance of improvements thereon.

Consistent with the deed restriction, this SMP provides a framework to manage residual chemicals in soil at the Site in a manner that is: (1) satisfactory to ACEH and other regulatory agencies, (2) protective of human health and the environment, and (3) consistent with current land uses.

1.1 Site Location and Description

The Site is located at 7825 San Leandro Street, east of the intersection with 77th Avenue, in a light industrial area of Oakland (Figures 1 and 2). The Site is bounded by commercial/industrial properties to the north, south, east, and west. Union Pacific Railroad is located immediately adjacent to and west of the Site. Oakland Truck Stop is located immediately adjacent to and east of the Site. Elmhurst Creek is located along the southeast corner of the property (Figure 2). San Leandro Bay is located approximately one mile west of the Site. The entire Site is covered with concrete and asphalt/concrete pavement.

1.2 Purpose and Objectives

The purpose of this SMP is to provide a plan to prevent or minimize human exposure to soil and groundwater contamination at the Site. This SMP was prepared to govern all future redevelopment and/or intrusive work at the Site such as soil excavation, trenching and backfilling activities.

2.0 BACKGROUND

This section provides information about subsurface conditions and remediation activities at the Site.

2.1 Site Operational History

AB&I have been operating at the Site location since at least 1930 (BSK Associates [BSK], 1993). Business activities include the manufacture of cast pipe and fittings. The facility accepts scrap iron and steel, which it stockpiles on-site, and uses during manufacturing activities. The Site encompasses an area of approximately 11.8 acres and contains various warehouses, manufacturing and office buildings. The entire Site is covered with buildings and asphalt/concrete pavement. Seven underground storage tanks (USTs) were previously located on the Site, including one 8,000-gallon UST used for storing unleaded gasoline, one 8,000-gallon UST used for the storage of mineral spirits and later 1,1,1-trichloroethane (1,1,1-TCA), one 550-gallon UST used for storing regular leaded gasoline, one 10,000-gallon UST used for storing diesel, and three 10,000-gallon USTs used for storing gasoline. All UST have been removed from the Site. UST removal activities were initiated in 1982 and completed in the early 1990s.

2.2 Hydrogeologic Setting

The Site is located near the San Francisco Bay within an area identified as the East Bay Plain. The East Bay Plain is situated on the east side of the San Francisco Bay depression. The alluvial sediments of the East Bay Plain consist of a mixture of gravel, sand and clay deposited by coalescing alluvial fans. In the vicinity of the Site, fluvial and near shore deposits have been mapped (Helley et. al., 1979). The fluvial deposits are described as unconsolidated, moderately sorted, fine sand and silt, with clayey silt and occasional thin beds of coarse sand (Muir, 1993). The near-shore deposits are described as a well-sorted, fine to medium grained sand and silt, with lenses of sandy clay and clay. Regional groundwater flow in the vicinity of the Site is interpreted to be towards the west - southwest toward San Leandro Bay.

The Site is underlain by a mixture of sandy/silty clay to a depth of at least 20-feet below ground surface (bgs). Groundwater has been encountered in borings and excavations at depths ranging from 8 to 12-feet bgs at the Site. Groundwater monitoring data from on-site monitoring wells generally flows to the northwest at a gradient of approximately 0.006 feet per foot (ft/ft); (SGI, 2009a).

2.3 Summary of Remedial Actions and Current Environmental Conditions

Initial site assessment activities began in 1991 as part of the facility's UST removal program. The USTs removed consisted of:

- three 10,000-gallon tanks used for storing gasoline (removed 1982/1983);
- one 550-gallon UST used for storing regular, leaded gasoline (removed 1991);
- one 8,000-gallon tank used for storing unleaded gasoline (removed 1991);
- one 8,000-gallon tank initially used for storing mineral spirits and later for storing 1,1,1-trichloroethane (removed 1991); and
- one 10,000-gallon tank used for storing diesel fuel (removed 1992).

Removal of the tanks, with the exception of the three 10,000-gallon gasoline USTs were provided in UST closure reports. The locations of the former USTs are identified on Figure 2.

In July/August 2006, a soil and groundwater assessment was conducted as part of a property transfer. The assessment consisted of sampling three existing monitoring wells (MW-1, MW-3, and MW-4); abandoning damaged well MW-2; and installing and sampling six new groundwater monitoring wells (MW-2R, and MW-5 through MW-9). Soil samples were collected at various depth intervals during the installation of monitoring wells MW-5, MW-6, MW-7, and MW-8. Results of the assessment were presented in the Preliminary Groundwater Investigation Report (BSK, 2007).

In response to a request from ACEH, additional soil, groundwater and soil vapor investigations were conducted in 2007, 2008, and 2009. These investigations included the investigation of shallow groundwater (less than 30 feet bgs) and deep groundwater (greater than 30 feet bgs), and the collection of soil vapor samples. The results of these investigations indicated that shallow groundwater in the vicinity of the Parking Lot Area (located in the vicinity and northwest of well MW-8; Figure 2) was impacted with chlorinated VOCs, including 1,1,1-TCA, 1,1-dichloroethane (1,1-DCA), 1,1-dichloroethene (1,1-DCE), chloroethane, cis-and trans-1,2-dichloroethene (1,2-DCE), and vinyl chloride. Shallow groundwater in the vicinity of the former three 10,000 gallon USTs area (located in the vicinity of well MW-9) was impacted with petroleum fuels including benzene, toluene, ethylbenzene and xylenes (BTEX), total petroleum hydrocarbons as gasoline (TPHg), and total petroleum hydrocarbons as diesel (TPHd). Results of the soil vapor analysis indicated that isolated soil gas samples had indoor air vapor intrusion environmental screening level (ESL) exceedences for benzene, ethylbenzene, vinyl chloride and tetrachloroethene (PCE) under the commercial land use scenario. A site specific risk assessment was conducted and results concluded that the risks posed by soil vapors were acceptable with respect to indoor air exposure under the commercial land use scenario and did not require further action. Further details can be found in SGI's reports titled, "Site Investigation Report," "Additional Site Investigation

Report,” and “Supplemental Soil Vapor Investigation Report” (SGI 2008a; SGI, 2008b, and SGI, 2009b). ACEH concurred with the report conclusions in a letter dated May 20, 2009.

In order to address residual petroleum hydrocarbons and VOCs in groundwater, enhanced anaerobic biodegradation (EAnB) injections occurred in June 2009 at the Site beneath the parking lot area (near MW-3 and MW-8) and aerobic biodegradation (EAB) injections occurred near the former three 10,000 gallon USTs (near MW-9). Since that time, groundwater monitoring has occurred to track the progress of bioremediation in the subsurface.

Soil sample results associated with the 2007 investigations are summarized in Tables 1 and 2 and Figures 3 through 6. Soil gas sample results for the investigations conducted in 2007, 2008, and 2009 are presented in Figures 7 through 9. Groundwater sample results associated with the 2007 investigations are presented in Figures 10 and 11. Groundwater monitoring well sample results conducted during 2009 and 2010 are summarized in Tables 3 and 4 and groundwater monitoring well sample results conducted during July and December 2010 are presented in Figures 12 through 15.

3.0 SUMMARY OF HUMAN HEALTH RISKS

This section presents a summary of a screening level risk evaluation (SLRE) that was conducted by SGI for the Site. The SLRE included the development of a conceptual site model that was used to evaluate the potential sources, contaminant migration pathways, and potential receptors for the petroleum hydrocarbons and VOCs within the area of and downgradient of the former mineral spirits/1,1,1-TCA UST and former three 10,000-Gallon USTs dispenser island area. The results of the SLRE are summarized below.

3.1.1 Potential Sources

The potential source(s) of contaminants released into the environment are interpreted to be leaks associated with the operation of the former mineral spirits/1,1,1-TCA UST and the former three 10,000-Gallon gasoline USTs dispenser island area.

Previous investigations related to the former mineral spirits/1,1,1-TCA UST removal and subsequent groundwater sampling have identified the presence of 1,1,1-TCA, chloroethane, 1,1-DCA, 1,1-DCE, and vinyl chloride in soil and, or groundwater in the immediate vicinity and downgradient (northwest) of the former mineral spirits/1,1,1-TCA UST (Figure 11). In addition, releases of TPH from the former three 10,000-Gallon gasoline USTs dispenser island area also appear to be commingling with and have impacted groundwater in the area of the former mineral spirits/1,1,1-TCA UST (Figure 10).

Groundwater underlying and south-southwest of the former three 10,000-Gallon gasoline USTs dispenser island area is impacted with TPHg, BTEX, and TPHd. The highest concentrations of TPHg, BTEX, and TPHd were reported in samples collected from beneath the storage goods warehouse, which is located south-southwest of the tank area (Figure 10). Higher concentrations of TPHg, BTEX, and TPHd in groundwater samples collected downgradient of the UST area suggest that excavation of the source area during the removal of the USTs was effective in reducing the source of contaminants to groundwater in the immediate vicinity of the USTs. The presence of elevated concentrations of TPHg, BTEX, and TPHd in groundwater underlying the storage goods warehouse is interpreted to be related to residual petroleum hydrocarbons that have migrated via groundwater flow from the former UST area.

The migration of TPH and chlorinated VOCs at the Site is interpreted to occur as a result of shallow groundwater flow. However, natural processes such as adsorption, dispersion, and natural degradation are expected to limit the horizontal and vertical extent of TPH and chlorinated VOCs. The primary source of the contaminants, leaks associated with discharges of TPH and chlorinated VOCs from the UST systems, have been terminated. Therefore, the only remaining sources are interpreted to be the affected soil beneath and downgradient of the USTs. As previously described

in Section 1.1, the entire Site is covered with concrete or asphalt/concrete (A/C) pavement. Therefore, there is currently no direct access to the affected soil.

3.1.2 Contaminant Migration Pathways

TPH tends to sorb to soil particles and can be transported from surface soils at the Site via dust generation or in surface water runoff. VOCs detected at the Site (e.g., chlorinated solvents or gasoline-range petroleum hydrocarbons) would not be expected to be present in surface soils, but can migrate downward from shallow soils to deeper soils under the force of gravity. VOCs could also migrate upward through soil gas into the atmosphere. In addition, these types of chemicals can migrate to underlying groundwater through leaching. The presence of the concrete and A/C pavement is expected to limit transport of VOCs to groundwater.

3.1.3 Potential Receptors and Exposure Pathways

The Site and surrounding areas are currently zoned for commercial/industrial use and they are expected to remain as such in the future. Therefore, the following receptors include:

- Hypothetical Onsite Outdoor Commercial/Industrial Worker Receptor (current and future exposure scenario); and
- Hypothetical Onsite Indoor Commercial/Industrial Worker Receptor (current and future exposure scenario).

The exposure pathways assumed to be complete and significant for the hypothetical outdoor commercial/industrial worker receptor include:

- Ingestion of soil;
- Dermal contact with soil; and
- Inhalation of dusts/vapors in outdoor air generated from soil and groundwater.

The exposure pathways assumed to be complete and significant for the hypothetical indoor commercial/industrial worker receptor include:

- Inhalation of vapors in indoor air volatilizing from the subsurface.

3.1.4 Comparison of Groundwater Data to Environmental Screening Levels

The CRWQCB has developed environmental screening levels (ESLs) to address environmental protection goals presented in the Water Quality Control Plan for the San Francisco Bay Basin (RWQCB 2007). Goals for screening levels and their applicability to the AB&I Foundry Site are summarized in the following table:

ESL Goal	Notes	Applicability
Protection of drinking water resources	There are no known active domestic water supply wells or pumping from shallow aquifers within a 1-mile radius of the Site.	Drinking water goals are not applicable
Protection of aquatic habitats	The nearest surface water body is Elmhurst Creek, which bounds the southern, upgradient edge of the Site. Elmhurst Creek is channeled through urban areas and drains stormwater toward San Leandro Bay (approximately 1 mile from the Site). The nearest wildlife refuge (Don Edwards) is approximately 30 miles southeast of the Site.	Aquatic habitat goals are not applicable
Protection against vapor intrusion into buildings	The site is currently developed with commercial buildings where vapor intrusion into indoor air from the subsurface may occur.	Vapor intrusion goals for commercial land use are applicable
Protection against adverse nuisance conditions (taste and odor thresholds)	Groundwater beneath the Site is not used for drinking water or other beneficial use, and leaching to potable groundwater aquifers is not a complete pathway.	Nuisance condition goals (taste and odor thresholds) are not applicable.

The only ESL which applies to groundwater beneath the AB&I Foundry Site is the ESL for vapor intrusion into indoor air. ESL vapor intrusion numbers are included on the analytical data tables (Tables 3 and 4) and were compared with site data. Currently, none of the wells contain VOC concentrations at levels that exceed the ESLs for vapor intrusion. Historical data which exceeded vapor intrusion ESLs are shaded in grey. Only two wells have historically contained VOC concentrations at levels that exceed vapor intrusion ESLs (vinyl chloride in MW-3 and vinyl chloride and 1,1-DCA in well MW-8). Concentrations in both of these wells have decreased to levels that are below ESLs as a result of the 2009 EOS[®] injections.

4.0 SITE MANAGEMENT ACTIVITIES

4.1 General

No excavation work shall be conducted at the Site, unless expressly permitted in writing by the ACEH. Any contaminated soils brought to the surface by grading, excavation, trenching, or backfilling shall be managed by the Site or his agent in accordance with all applicable provisions of local, state and federal law. Notwithstanding the foregoing, the Site may perform routine landscaping and maintenance of improvements thereon.

All uses and development shall preserve the integrity of any cap, any remedial measures taken or remedial equipment installed, and any groundwater monitoring system installed on the Site pursuant to the requirements of the ACEH, unless otherwise expressly permitted in writing by the ACEH.

With the exception of the existing onsite water supply well, no Owners or Occupants of the Site 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 ACEH.

The Site shall notify the ACEH of each of the following: (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 Site pursuant to the requirements of the ACEH, 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 ACEH shall be made by registered mail within ten (10) working days of both the discovery of such disturbance and the completion of repairs.

4.2 Soil Management

Soil management during construction addresses precautions that will be taken to mitigate risks to human health and the environment from identified chemicals during future redevelopment and/or intrusive activities at the Site such as soil excavation, trenching, new construction, site development, grading and utility repair. These precautions will include the following:

- Implementation of construction impact mitigation measures, including control of dust generation at the Site, decontamination of equipment, and prevention of storm water runoff; and
- Establishment of procedures to: (1) manage soil and groundwater on the Site during construction and (2) characterize soil if it is found to contain concentrations of TPH, VOCs ,

or metals in excess of State of California hazardous waste criteria or ESLs for commercial land use.

4.3 Site Specific Health and Safety Plans

During construction activities, those workers that may directly contact soil containing constituents of concern (VOCs, petroleum hydrocarbons, and metals) will perform these activities in accordance with a site-specific health and safety plan. The plan will be consistent with State and Federal Occupational Safety and Health Administration ("OSHA") standards for hazardous waste operations (CCR, Title 8, Section 5192 and 29 Code of Federal Regulations 1910.120, respectively). Among other things, the health and safety plan will include a description of health and safety training requirements for onsite construction workers, a description of the level of personal protective equipment to be used, if any, air quality monitoring plans, and any other applicable precautions to be undertaken. The health and safety Plan shall include procedures for handling soil and/or groundwater contaminated with VOCs, petroleum hydrocarbons, and/or metals.

4.4 Soil Management Protocols

Soil management protocols described in this section provide guidance for excavating and handling soil at the Site. The specific protocols to be followed when managing soil on the Site are summarized below:

- If soil is to be disposed offsite then sampling frequencies and test methods employed to characterize the soil will be determined by the disposal facility accepting the soil.
- If soil is to remain at the Site it must be tested to determine if TPH, VOCS, and metals are less than the appropriate screening levels for reuse.
- Testing of soil for reuse can be performed: (1) in advance of excavation by collecting soil samples from soil borings installed to the depth of the intended excavation or (2) during excavation by sampling excavated soil as stockpiles are being formed.

4.4.1 Soil Testing and Analytical Protocol

Soil intended for reuse will be sampled at an appropriate frequency in accordance with the Department of Toxic Substances Control (DTSCs) Information Advisory Clean Imported Fill Material (Advisory), dated October 2001 (DTSC 2001). A sampling grid will be established for each stockpile based on the volume of soil and minimum number of samples to be collected in accordance with DTSC's Advisory as follows:

- Stockpiles up to 1,000 cubic yards: 1 sample per 250 cubic yards.

- Stockpiles from 1,000 to 5,000 cubic yards: 4 samples for first 1000 cubic yards plus 1 sample per each additional 500 cubic yards.
- Stockpiles greater than 5,000 cubic yards: 12 samples for first 5,000 cubic yards plus 1 sample per each additional 1,000 cubic yards.

Stockpile samples will be collected by removing the surface soil (approximately 6-inches) followed by inserting a brass or stainless steel tube into the soil. Each sample container will be labeled, sealed, and placed on ice in a cooler. Samples will be transmitted under chain-of-custody procedures to a State of California certified laboratory. Soil samples will be analyzed for TPH, VOCs, and metals using EPA Methods 8015M, 8260B, and 6010. Soil samples that exceed ten times their respective soluble threshold limit concentration (STLC; metals) will also be analyzed using the waste extraction test (WET) to further assess the re-use of soil onsite. Soil that exceeds the STLC or commercial ESL will be disposed of offsite at an appropriate disposal facility.

Additional soil samples may also be collected from the stockpiled soil to aid in disposal. Soil samples in stockpiles will be collected at a frequency that is required by the disposal facility (landfill). Samples will be analyzed for additional analytes as required for disposal.

4.4.2 Handling Procedures for Contaminated Soil

The following handling procedures shall be followed during excavation activities.

- Any stockpiled soil shall be covered with plastic sheeting or tarps and will not be stockpiled in or near storm drains.
- Access to excavated areas shall be controlled to prevent unauthorized persons accessing exposed soil.
- Soil determined to be hazardous waste shall be disposed of offsite. Soil shall be transported under applicable U.S. and California Department of Transportation regulations. Current federal and state requirements should be reviewed prior to disposal of soil.

4.5 Handling Procedures for Contaminated Groundwater

VOCs and TPH at levels above ESLs have been detected in groundwater samples from the Site. Therefore, if any excavation activities require dewatering, water shall be stored in holding tanks and sampled in accordance with applicable laws and regulations for disposal.

Any project-related water associated with dewatering activities shall either discharge into the sanitary sewer, under permit with East Bay Municipal Utility District (EBMUD), or comply with the National Pollutant Discharge System (NPDES) permit regulations and an associated Storm Water Pollution Prevention Plan (SWPPP) regarding discharge into storm drains. Such permit requirements typically include on-site treatment to remove pollutants prior to discharge.

Alternatively, the water shall be temporarily stored onsite in holding tanks, pending off-site disposal at an approved disposal facility.

4.6 Site Control

Access to the work zones where soil will be disturbed shall be controlled using caution tape, cones, fencing, steel plates, or other measures to clearly designate the active work area and to prevent access by the public. To minimize the migration of contaminated soils from the Site to uncontaminated areas, excavated soil shall be covered and secured by temporary fences or other means to prevent unauthorized access.

4.7 Dust/Vapor Control Measures

Dust control measures will be implemented during construction activities at the Site to minimize the generation of dust. Dust generation that will be mitigated includes that associated with excavation activities, truck traffic, ambient wind traversing soil stockpiles, and loading of transportation vehicles.

Dust generation will be minimized using appropriate measures. These measures include but are not limited to the following:

- Mist or spray water while performing excavation activities and loading transportation vehicles,
- Limit vehicle speeds on the property to 5 miles per hour,
- Control excavation activities to minimize the generation of dust,
- Minimize drop heights while loading transportation vehicles, and
- Cover soil stockpiles, if present, with visqueen or tarps.

If the construction area is greater than 4 acres, use enhanced control measures as specified in Table 2 of the BAAQMD California Environmental Quality Act Guidelines (BAAQMD, 1999).

4.8 Decontamination

Decontamination procedures shall be developed by contractors to minimize the equipment contamination during excavation activities. The procedures should include removing loose soil from the vehicle exterior using dry methods, such as brushing, scraping or vacuuming. Soil not removed by dry methods, should be cleaned by pressure washing or steam cleaning. Water collected from the cleaning process should be sampled prior to disposal.

4.9 Monitoring Wells

All groundwater monitoring wells located onsite shall be protected during excavation and construction activities. A map showing the locations of wells currently on the property are shown on Figure 2. Any damage to these wells should be reported immediately. All the wells should be accessible to others during excavation and construction activities. Prior to removal or relocation of any wells, the ACEH shall be notified and well destruction or installation permits shall be obtained from Alameda County Department of Public Works.

4.10 Storm Water Control

Storm water pollution controls shall be implemented by construction contractors to minimize sediment runoff in storm water, which could include soil containing contaminants of concern. Prior to the initiation of the work, the contractors must follow the requirements of the CRWQCB general permit and other permits by the CRWQCB. Storm water pollution controls implemented at the Site will be based on best management practices, such as those described in the "Information on Erosion and Sediment Controls for Construction Projects: A Guidebook," Erosion and Sediment Control Field Manual (CRWQCB, 2002), and the Storm Water Best Management Practices Handbook (CSQA, 2003).

Procedures to prevent erosion and sediment runoff from the Site shall include grading the Site, installing storm water control devices such as temporary earth berms or erecting silt fences around the perimeter of exposed soil at the Site. Straw bale barriers or sediment traps are required to protect the existing catch basins.

4.11 Reporting

After earthwork activities are complete, a report will be prepared to document the relocation and final disposition of soil reused or disposed of offsite. At a minimum, the report will include the dimensions of the excavation and confirmation sample locations. The analytical data will be provided in tables and a Site plan showing sampling locations and limits of excavation and grading will be presented. If applicable, copies of receipts pertaining to the disposition of the soil will be appended to the report.

5.0 CONTINGENCY PLAN

The following contingency plan shall be implemented to address unknown contamination during grading, trenching, and dewatering activities:

- All grading, trench excavation and filling operations, and dewatering operations shall be observed for the presence of free-phase petroleum products, chemicals, or contaminated soil/groundwater. Discolored soil or suspected contaminated soil shall be segregated from clean soil. In the event unexpected, contaminated soil or groundwater is encountered during construction, the contractor shall notify Site Environmental Manager. The Site Environmental Manager shall confirm the presence of the suspect material and direct the contractor to remove, stockpile or contain, and characterize the suspect material(s) identified within the boundaries of the construction area. Continued work at a contaminated site shall require the approval of the Site Environmental Manager.
- A photoionization detector (or other organic vapor detecting device) shall be present during grading and excavation through suspected chemically impacted soil.
- Excavation of VOC-impacted soil will require obtaining and complying with a Bay Area Air Quality Management District Rule 40 permit.
- The extent of removal actions shall be determined on a site-specific basis. At a minimum, the chemically impacted area(s) within the boundary of the construction area and/or trench shall be remediated to the satisfaction of the lead regulatory agency (ACEH) for the site. The Site Environmental Manager or representative overseeing removal actions shall inform the contractor when the removal action is complete.
- In the event that contaminated soil is encountered, all on-site personnel handling or working in the vicinity of the contaminated material shall be trained in accordance with OSHA regulations for hazardous waste operations. These regulations are based on CFR 1910.120 (e) and 8 CCR 5192, which states that "general site workers" shall receive a minimum of 40 hours of classroom training and a minimum of three days of field training. This training provides precautions and protective measures to reduce or eliminate hazardous materials/waste hazards at the work place.
- All excavations shall be filled with structurally suitable fill material which contains non-hazardous contaminant concentrations (if any) that do not exceed ESLs. The cover (cap) shall be repaired and returned to its pre-excavation condition.
- Any project-related dewatering activities shall either discharge into the sanitary sewer, under permit with the EBMUD, or comply with the NPDES permit regulations and an associated SWPPP regarding discharge into storm drains. Such permit requirements typically include on-site treatment to remove pollutants prior to discharge. Alternatively, the

water shall be temporarily stored onsite in holding tanks, pending off-site disposal at an approved disposal facility.

- The Site Environmental Manager shall confirm the presence of the suspect contaminated soil and direct the contractor to remove, stockpile, or contain the suspect material identified within the boundaries of the construction area. Contaminated soil shall either be treated on-site or trucked off-site for disposal at a California licensed facility approved for disposal of such waste.
- After earthwork activities are complete, a report will be prepared to document the relocation and final disposition of soil reused or disposed of offsite. At a minimum, the report will include the dimensions of the excavation and confirmation sample locations. The analytical data will be provided in tables and a Site plan showing sampling locations and limits of excavation and grading will be presented. If applicable, copies of receipts pertaining to the disposition of the soil will be appended to the report.

5.1 Implementation of Site Management Plan

AB&I shall oversee implementation of this SMP at the Site. A copy of this SMP shall be included in all contracts signed with contractors and third party contractors working in the subsurface at the Site. It is the responsibility of the contractor to adhere to this SMP, project specifications, and site safety. The contractor is also responsible for providing a copy of this SMP to its subcontractors.

This SMP was developed based on the current conditions at the Site and applicable regulations. It may be necessary to modify this SMP from time to time for any of several reasons, including the following.

- Change in property use (e.g., addition of buildings to the site).
- Any change in legal requirements.
- Change in environmental conditions.
- Intrusive activity that is not addressed by this SMP.
- New chemical toxicity information for chemicals present at the Site.

5.2 Limitations

This SMP was prepared to address VOCs, TPH and metals present in the soil and groundwater at the Site and current known site conditions, regulations and laws. This SMP does not address issues related to other chemicals or future site conditions that may be encountered during construction projects, including but not limited to, demolition and construction debris, asphalt, concrete, and asbestos-containing materials. If such materials are encountered during a

construction project, contractors and workers are responsible for complying with all applicable laws pertaining to the handling and disposal of these materials.

The Site-related activities may be subject to federal, state, and local laws and regulations, including those published by U.S. Environmental protection Agency (USEPA), the BAAQMD, California Environmental Protection Agency (Cal-EPA), Alameda County, and the City of Oakland. These regulations address issues such as health and safety, hazardous waste, dust generation, storm water, and community right-to-know. It is the responsibility of the parties involved to ensure that all construction and maintenance activities abide by current applicable laws and regulations.

SGL disclaims any responsibility for any unauthorized use of this SMP. It is understood that while this SMP is intended to provide guidance and establish a framework for the management of residual product in the subsurface in soil to protect human health and the environment, this SMP shall not create any warranties or obligations to AB&I as to implementation, adequacy, or success of protective measures under this SMP.

6.0 REFERENCES

- Alameda County Department of Environmental Health (ACEH 2008). Letter regarding, "Fuel Leak Case No. RO0000092, American Brass & Iron Foundry, 7825 San Leandro Street, Oakland, California". November 4.
- Alameda County Department of Environmental Health (ACEH 2009). Letter regarding, "Fuel Leak Case No. RO0000092, American Brass & Iron Foundry, 7825 San Leandro Street, Oakland, California". March 26.
- Alameda County Department of Environmental Health (ACEH 2011). Letter regarding, "Fuel Leak Case No. RO0000092, American Brass & Iron Foundry, 7825 San Leandro Street, Oakland, California" request for a draft Covenant and Environmental Restriction on Property (Deed Restriction) along with a Site Management Plan (SMP). April 28.
- BAAQMD (Bay Area Air Quality Management District), 1999. BAAQMD CEQA Guidelines, Assessing the Air Quality Impacts of Projects and Plans, San Francisco, California. December.
- BSK Associates, Inc. (BSK). 1993. "Report Shallow Soil and Groundwater Investigation American Brass & Iron Foundry". April 30.
- BSK Associates, Inc. (BSK). 2007. "Preliminary Groundwater Investigation Report AB&I Foundry". June 11.
- California Department of Toxic Substances Control, 2001, Information Advisory Clean Imported Fill Material. October 2001.
- California Department of Water Resources, 1991. California Well Standards. Bulletin 74-90. June.
- California Regional Water Quality Control Board (CRWQCB). 2007. Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater. Interim Final. November
- CRWQCB, 2002. Information on Erosion and Sediment Controls for Construction Projects: A Guidebook, Erosion and Sediment Control Field Manual. August.
- CSQA (California Stormwater Quality Association), 2003. Storm Water Best Management Practices Handbook. January.
- Helley, E.J., K.R. Lajoie, W.E. Spangle, and M.L. Blair. 1979. Flatland Deposits of the San Francisco Bay Region, California, Their Geology and Engineering Properties, and Their Importance to Comprehensive Planning. U.S. Geological Survey Professional Paper 943. Washington D.C.
- Muir, K.S., 1993. Geologic Framework of the East Bay Plain Groundwater Basin, Alameda County, California.

Regional Water Quality Control Board (RWQCB, 1995). Water Quality Control Plan for the San Francisco Bay Basin (Basin Plan)

Regional Water Quality Control Board (RWQCB, 1999).

Regional Water Quality Control Board (RWQCB, 2006). Water Quality Control Plan for the San Francisco Bay Basin (Basin Plan)

The Source Group, Inc. (SGI 2007). "Revised Site Investigation Work Plan", AB&I Foundry, 7825 San Leandro Street, Oakland, California. September 17.

The Source Group, Inc. (SGI 2008a). "Site Investigation Report", AB&I Foundry, 7825 San Leandro Street, Oakland, California. February 14.

The Source Group, Inc. (SGI 2008b). "Report for Additional Site Investigation", AB&I Foundry, 7825 San Leandro Street, Oakland, California. September 25.

The Source Group, Inc. (SGI 2009a). "Work Plan for Enhanced Anaerobic Biodegradation Pilot Study – Parking Lot Area & Former 8,000-Gallon Mineral Spirits/1,1,1-TCA UST", AB&I Foundry, 7825 San Leandro Street, Oakland, California. March 12.

The Source Group, Inc. (SGI 2009b). "Supplemental Soil Vapor Investigation Report", AB&I Foundry, 7825 San Leandro Street, Oakland, California. April 22.

The Source Group, Inc. (SGI 2009c). "May 2009 Semi-Annual Monitoring and Enhanced Anaerobic Biodegradation Pilot Study", AB&I Foundry, 7825 San Leandro Street, Oakland, California. October 7.

The Source Group, Inc. (SGI 2009d). "Enhanced Aerobic Biodegradation Pilot Study Report – Former Three 10,000-Gallon USTs Area", AB&I Foundry, 7825 San Leandro Street, Oakland, California. October 7.

The Source Group, Inc. (SGI 2010). "Quarter 1/Quarter 2 2010 Semi-Annual Monitoring Report and Request for Site Closure, AB&I Foundry, 7825 San Leandro Street, Oakland, California. September 7.

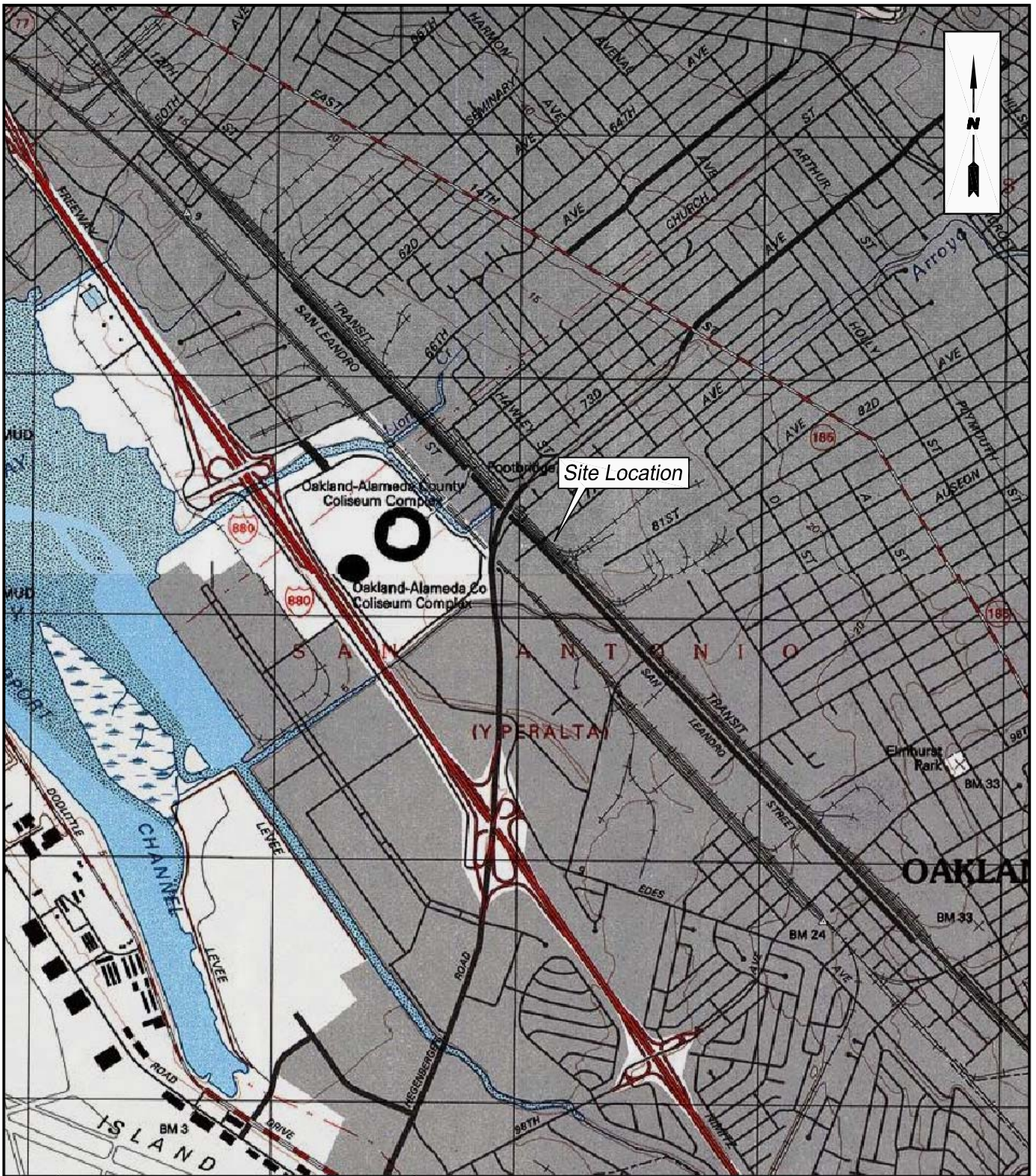
The Source Group, Inc. (SGI 2011). "Quarter 4 2010 Semi-Annual Monitoring Report, AB&I Foundry, 7825 San Leandro Street, Oakland, California. January 26.

USEPA, 1989. Risk Assessment Guidance for Superfund, Human Health Evaluation Manual, Part A. Interim Final. Solid Waste and Emergency Response. December.

FIGURES

TABLES

FIGURES



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environmental

3451-C VINCENT ROAD
 PLEASANT HILL, CA 94523

SOURCE: U.S.G.S. 7.5' QUAD SHEET
 OAKLAND EAST, CALIFORNIA
 PHOTOREVISED 1997

SCALE:



SITE LOCATION MAP

CLIENT:

AB&I FOUNDRY

DATE:

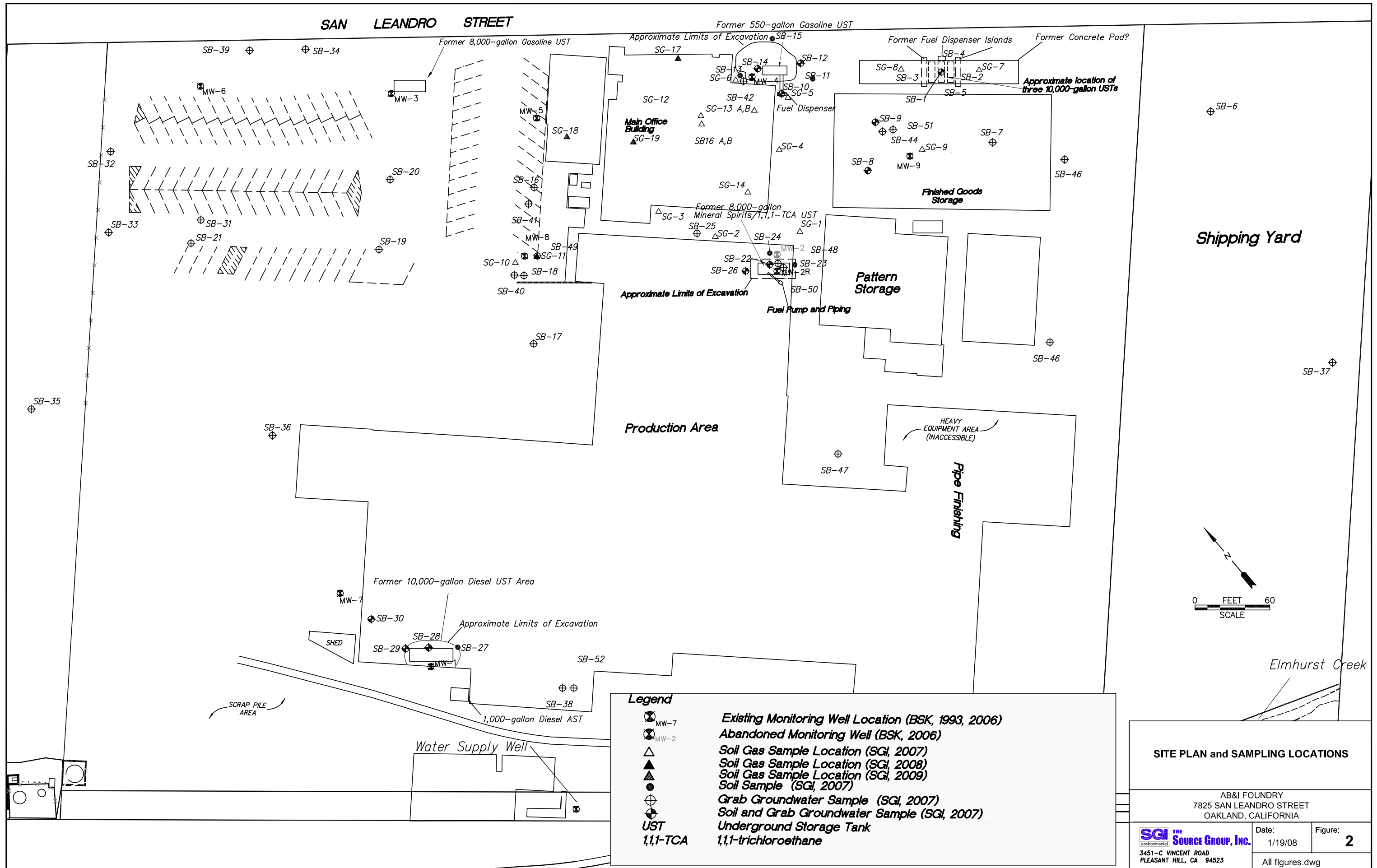
6/27/07

LOCATION:

7825 San Leandro Street
 Oakland, California

FIGURE:

1



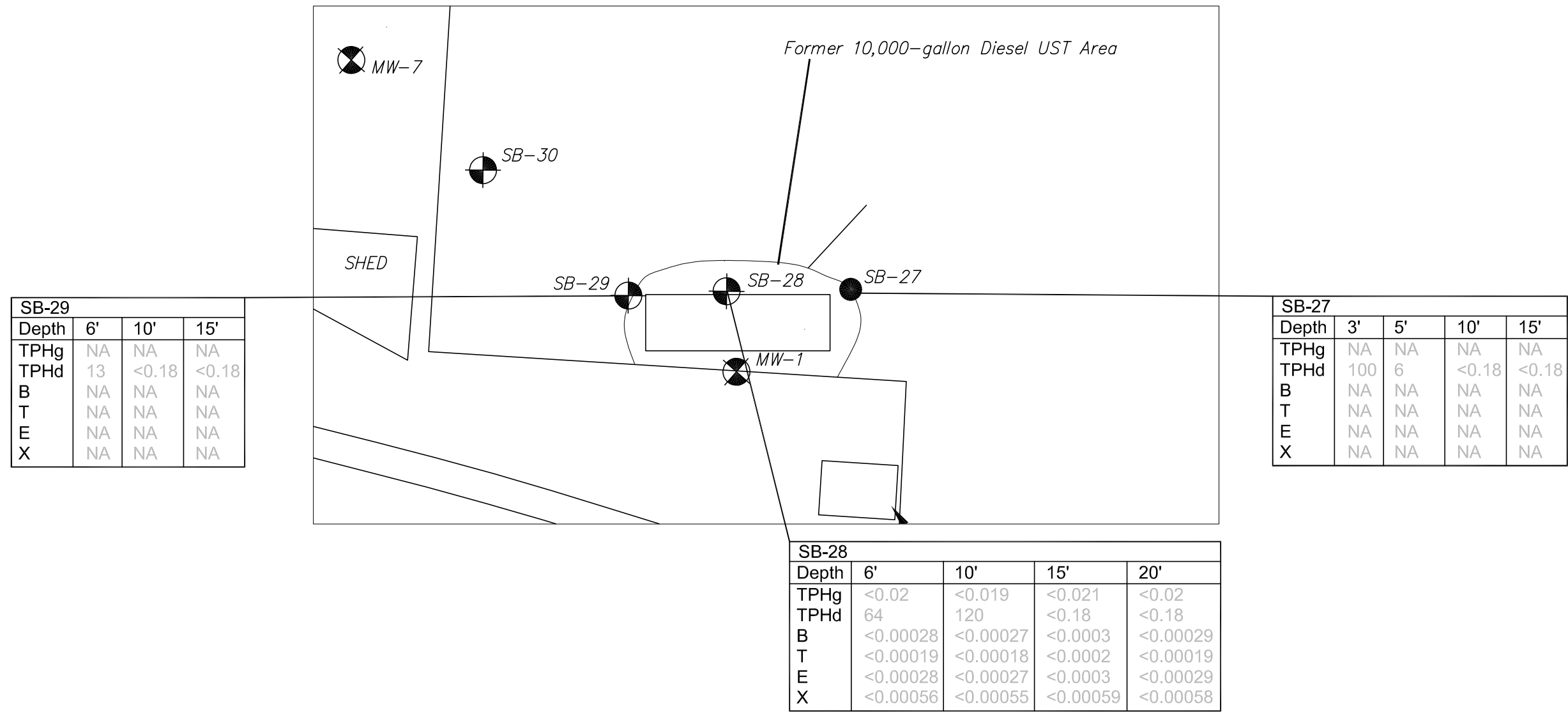
Legend

- Existing Monitoring Well Location (BSK, 1993, 2006)
- Abandoned Monitoring Well (BSK, 2006)
- Soil Gas Sample Location (SGI, 2007)
- Soil Gas Sample Location (SGI, 2008)
- Soil Gas Sample Location (SGI, 2009)
- Soil Sample (SGI, 2007)
- Grab Groundwater Sample (SGI, 2007)
- Soil and Grab Groundwater Sample (SGI, 2007)
- UST 1,1-TCA
- UST 1,1-trichloroethane

SITE PLAN and SAMPLING LOCATIONS

AB&I FOUNDRY
7825 SAN LEANDRO STREET
OAKLAND, CALIFORNIA

	Date: 1/19/08	Figure: 2
3451-C VINCENT ROAD PLEASANT HILL, CA 94523		
All figures.dwg		



Legend

Boring ID	SB-28	
Depth in feet below ground surface	6'	10'
Total Petroleum Hydrocarbons as Gasoline	TPHg <0.02	<0.019
Total Petroleum Hydrocarbons as Diesel	TPHd 64	120
Benzene	B <0.00028	<0.00027
Toluene	T <0.00019	<0.00018
Ethylbenzene	E <0.00028	<0.00027
Xylene	X <0.00056	<0.00055

Concentrations reported in milligrams per kilogram (mg/kg)
 <0.00028 Not Detected at or above the laboratory reporting limit of <0.00028

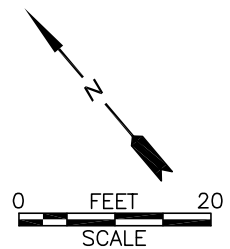
Existing Monitoring Well Location (BSK, 1993, 2006)

Abandoned Monitoring Well (BSK, 2006)

Soil Sample (SGI, 2007)

Soil and Grab Groundwater Sample (SGI, 2007)

Concentrations in bold exceed Environmental Screening Levels (ESLs) taken from the California Regional Water Quality Control Board, San Francisco Bay Region document entitled, "Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater", Interim Final November 2007. Groundwater is not a current or potential source of drinking water, commercial shallow or deep soil (less than or greater than 3 meters), commercial land use.



**SOIL SAMPLE RESULTS - FORMER
10,000-GALLON DIESEL UST AREA -
2007**

AB&I FOUNDRY
7825 SAN LEANDRO STREET
OAKLAND, CALIFORNIA

THE SOURCE GROUP, INC.
3451-C VINCENT ROAD
PLEASANT HILL, CA 94523

Date:
1/20/08

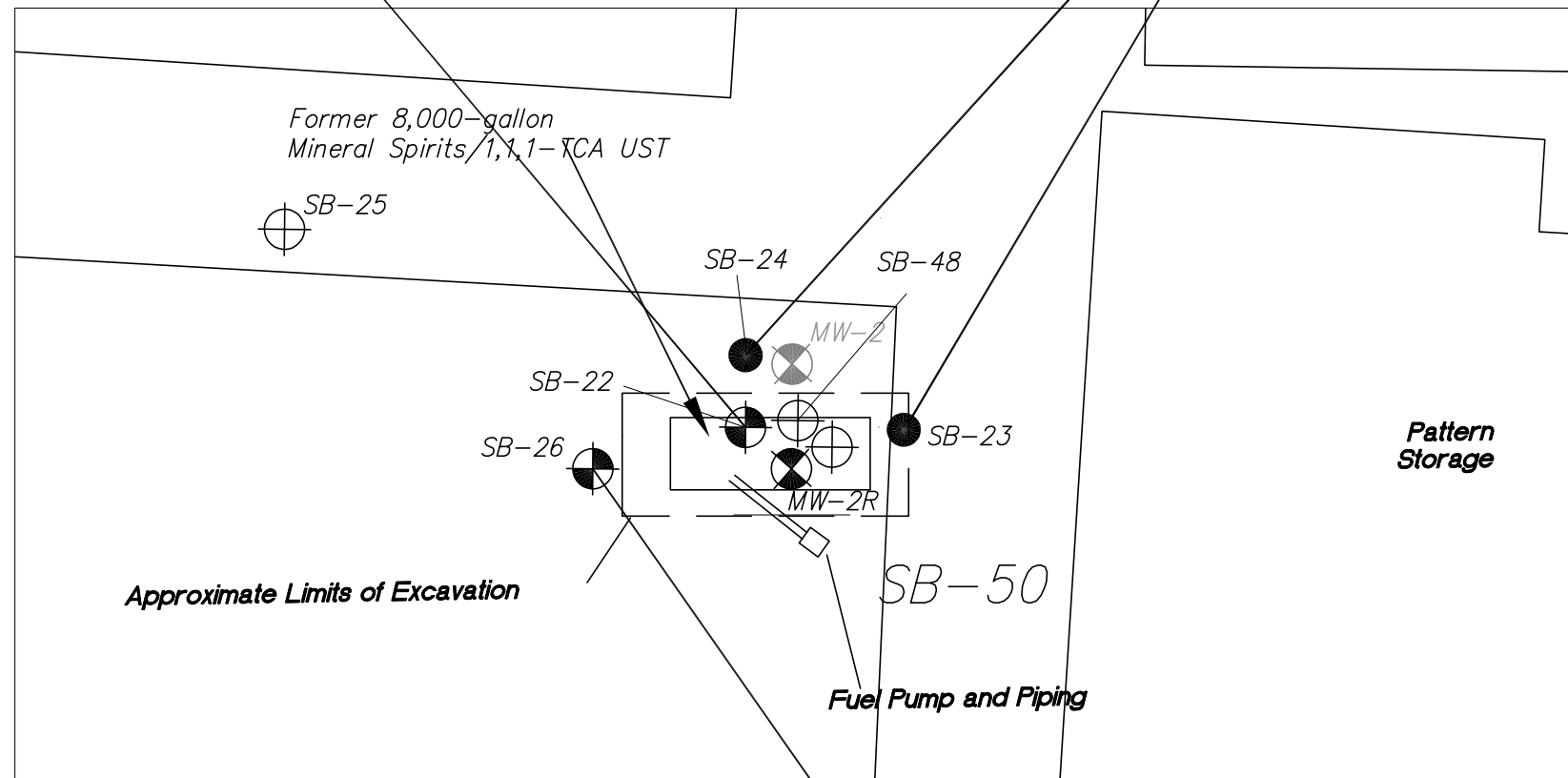
Figure:
3

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SB-22				
Depth	3'	5'	10'	15'
TPHg	0.29	<0.02	0.99	<0.02
TPHd	90	16	150	<0.18
B	<0.00021	<0.00021	<0.00021	<0.00021
T	<0.00039	<0.00039	<0.00038	<0.0004
E	<0.00042	<0.00042	<0.00041	<0.00042
X	<0.0015	<0.0015	<0.0015	<0.0016

SB-24				
Depth	3'	5'	10'	20'
TPHg	1.2	1.1	0.69	<0.02
TPHd	170	61	<0.18	<0.18
B	<0.042	<0.0002	<0.00021	<0.00021
T	<0.077	<0.00037	<0.00039	<0.00038
E	<0.083	<0.0004	<0.00042	<0.00041
X	<0.31	<0.0015	<0.0015	<0.0015

SB-23				
Depth	3'	5'	10'	15'
TPHg	2.1	0.4	0.25	<0.02
TPHd	110	190	69	<0.18
B	<0.0002	<0.0002	<0.000	<0.00021
T	<0.00038	<0.00038	<0.00037	<0.00038
E	<0.00041	<0.0004	<0.0004	<0.00041
X	<0.0015	<0.0015	<0.0015	<0.0015



Legend

Boring ID	SB-28	
Depth in feet below ground surface	Depth	6' 10'
Total Petroleum Hydrocarbons as Gasoline	TPHg	<0.02 <0.019
Total Petroleum Hydrocarbons as Diesel	TPHd	64 120
Benzene	B	<0.00028 <0.00027
Toluene	T	<0.00019 <0.00018
Ethylbenzene	E	<0.00028 <0.00027
Xylene	X	<0.00056 <0.00055

Concentrations reported in milligrams per kilogram (mg/kg)
 <0.00028 Not Detected at or above the laboratory reporting limit of <0.00028

⊗_{MW-7} Existing Monitoring Well Location (BSK, 1993, 2006)

⊗_{MW-2} Abandoned Monitoring Well (BSK, 2006)

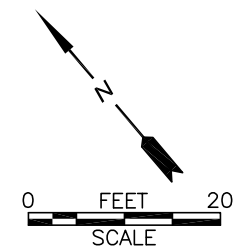
● Soil Sample (SGI, 2007)

⊕ Grab Groundwater Sample (SGI, 2007)

⊕ Soil and Grab Groundwater Sample (SGI, 2007)

-Concentrations in bold exceed Environmental Screening Levels (ESLs) taken from the California Regional Water Quality Control Board, San Francisco Bay Region document entitled, "Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater", Interim Final November 2007. Groundwater is not a current or potential source of drinking water, commercial shallow or deep soil (less than or greater than 3 meters), commercial land use.

SB-26			
Depth	4'	10'	15'
TPHg	380	72	<0.02
TPHd	5800	19	<0.18
B	<4.1	<0.043	<0.00021
T	<7.6	<0.079	<0.00039
E	<4.1	<0.084	<0.00042
X	<30	<0.31	<0.0016



SOIL SAMPLE RESULTS - FORMER 8,000-GALLON MINERAL SPIRITS/1,1,1-TCA UST AREA - 2007

AB&I FOUNDRY
 7825 SAN LEANDRO STREET
 OAKLAND, CALIFORNIA

SGI THE SOURCE GROUP, INC.
environmental
 3451-C VINCENT ROAD
 PLEASANT HILL, CA 94523

Date: 1/20/08

Figure: **4**

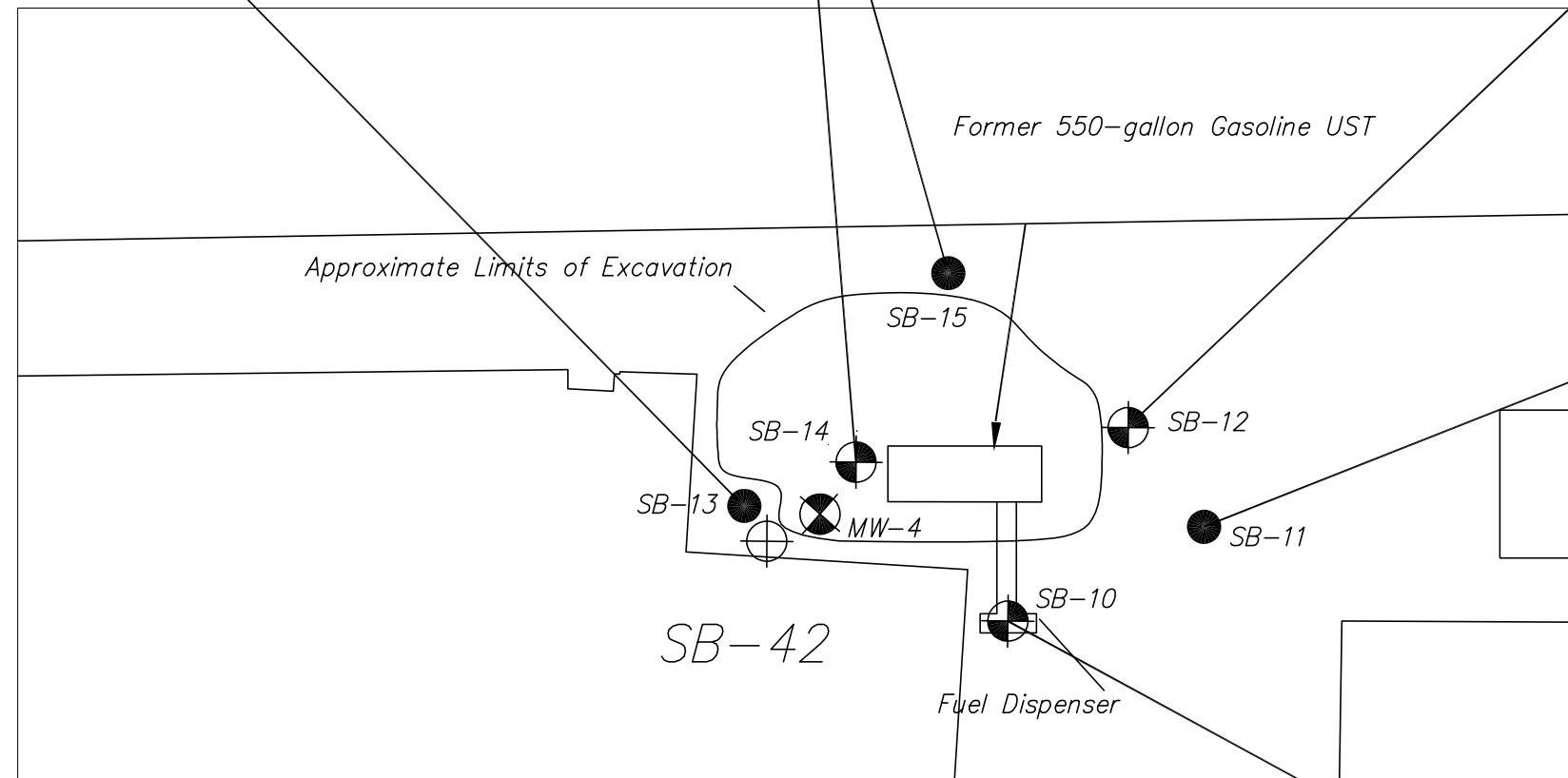
All figures.dwg

SB-13				
Depth	5'	10'	15'	25'
TPHg	<0.019	0.91	78	420
TPHd	NA	NA	NA	NA
B	<0.00027	<0.00027	<0.00018	<0.00055
T	<0.00018	<0.0002	<0.38	<0.42
E	<0.00027	<0.0003	<0.31	<0.34
X	<0.00055	<0.0006	<0.68	<0.75

SB-14			
Depth	3'	10'	15'
TPHg	<0.02	<0.02	30
TPHd	NA	NA	NA
B	<0.00028	<0.00029	<0.00093
T	<0.00019	<0.00019	<0.00062
E	<0.00028	<0.00029	<0.00093
X	<0.00056	<0.00058	<0.0019

SB-15				
Depth	5'	10'	15'	19'
TPHg	<0.019	<0.02	1100	7.9
TPHd	NA	NA	NA	NA
B	<0.00027	<0.00028	<0.39	<0.0004
T	<0.00018	<0.00019	<0.39	<0.00026
E	<0.00027	<0.00028	<0.31	<0.019
X	<0.00055	<0.00056	<0.7	<0.00079

SB-12				
Depth	5'	10'	15'	25'
TPHg	<0.02	<0.02	250	<0.02
TPHd	NA	NA	NA	NA
B	<0.00028	<0.00028	<0.39	<0.00029
T	<0.00019	<0.00019	<0.39	<0.00019
E	<0.00028	<0.00028	<0.32	<0.00029
X	<0.00057	<0.00057	<0.71	<0.00058



SB-11			
Depth	5'	10'	20'
TPHg	8.6	71	<0.021
TPHd	NA	NA	NA
B	<0.0006	<0.38	<0.0003
T	<0.0004	<0.38	<0.0002
E	<0.0006	<0.31	<0.0003
X	<0.0012	<0.69	<0.00059

SB-10					
Depth	5'	10'	15'	20'	25'
TPHg	320	450	330	5.4	<0.02
TPHd	50	38	62	5.1	<0.18
B	<0.4	<0.4	<0.4	<0.00029	<0.00029
T	<0.4	<0.4	<0.4	<0.00019	<0.00019
E	<0.33	1.4	<0.32	<0.00029	<0.00029
X	<0.73	<0.72	<0.72	<0.00057	<0.00058

Legend

Boring ID _____

Depth in feet below ground surface _____

Total Petroleum Hydrocarbons as Gasoline _____

Total Petroleum Hydrocarbons as Diesel _____

Benzene _____

Toluene _____

Ethylbenzene _____

Xylene _____

SB-28		
Depth	6'	10'
TPHg	<0.02	<0.019
TPHd	64	120
B	<0.00028	<0.00027
T	<0.00019	<0.00018
E	<0.00028	<0.00027
X	<0.00056	<0.00055

Concentrations reported in milligrams per kilogram (mg/kg)
 <0.00028 Not Detected at or above the laboratory reporting limit of <0.00028

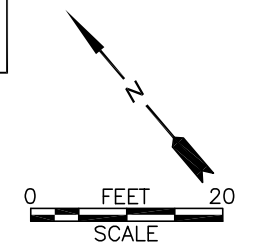
MW-7 Existing Monitoring Well Location (BSK, 1993, 2006)

MW-2 Abandoned Monitoring Well (BSK, 2006)

Soil Sample (SGI, 2007)

Soil and Grab Groundwater Sample (SGI, 2007)

Concentrations in bold exceed Environmental Screening Levels (ESLs) taken from the California Regional Water Quality Control Board, San Francisco Bay Region document entitled, "Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater", Interim Final November 2007. Groundwater is not a current or potential source of drinking water, commercial shallow or deep soil (less than or greater than 3 meters), commercial land use.



SOIL SAMPLE RESULTS - FORMER 550-GALLON GASOLINE UST AREA - 2007

AB&I FOUNDRY
7825 SAN LEANDRO STREET
OAKLAND, CALIFORNIA

SGI THE SOURCE GROUP, INC.
3451-C VINCENT ROAD
PLEASANT HILL, CA 94523

Date: 1/20/08 Figure: **5**

All figures.dwg

SB-3					
Depth	5'	10'	15'	20'	25'
TPHg	<0.02	1.3	1400	1400	<0.021
TPHd	<0.18	1.4	660	660	<0.18
B	<0.00028	0.0049	<0.98	<0.98	<0.0003
T	0.008	<0.00019	<0.98	<0.98	<0.0002
E	<0.00028	<0.00028	12	12	<0.0003
X	<0.00057	<0.00056	<1.8	<1.8	<0.0006

SB-1				
Depth	5'	10'	20'	28'
TPHg	<0.02	91	450	0.39
TPHd	65	2.4	8.9	<0.18
B	<0.00028	<0.42	<0.41	<0.00029
T	<0.00019	<0.42	<0.41	<0.00019
E	<0.00028	<0.34	4.9	<0.00029
X	<0.00057	<0.76	<0.75	<0.00057

SB-4				
Depth	10'	15'	20'	24'
TPHg	<0.02	790	470	<0.021
TPHd	<0.18	44	4.3	<0.18
B	<0.00029	<0.11	<0.38	<0.0003
T	<0.00019	<0.074	<0.38	<0.0002
E	<0.00029	2.4	4	<0.0003
X	<0.00057	<0.22	<0.68	<0.0006

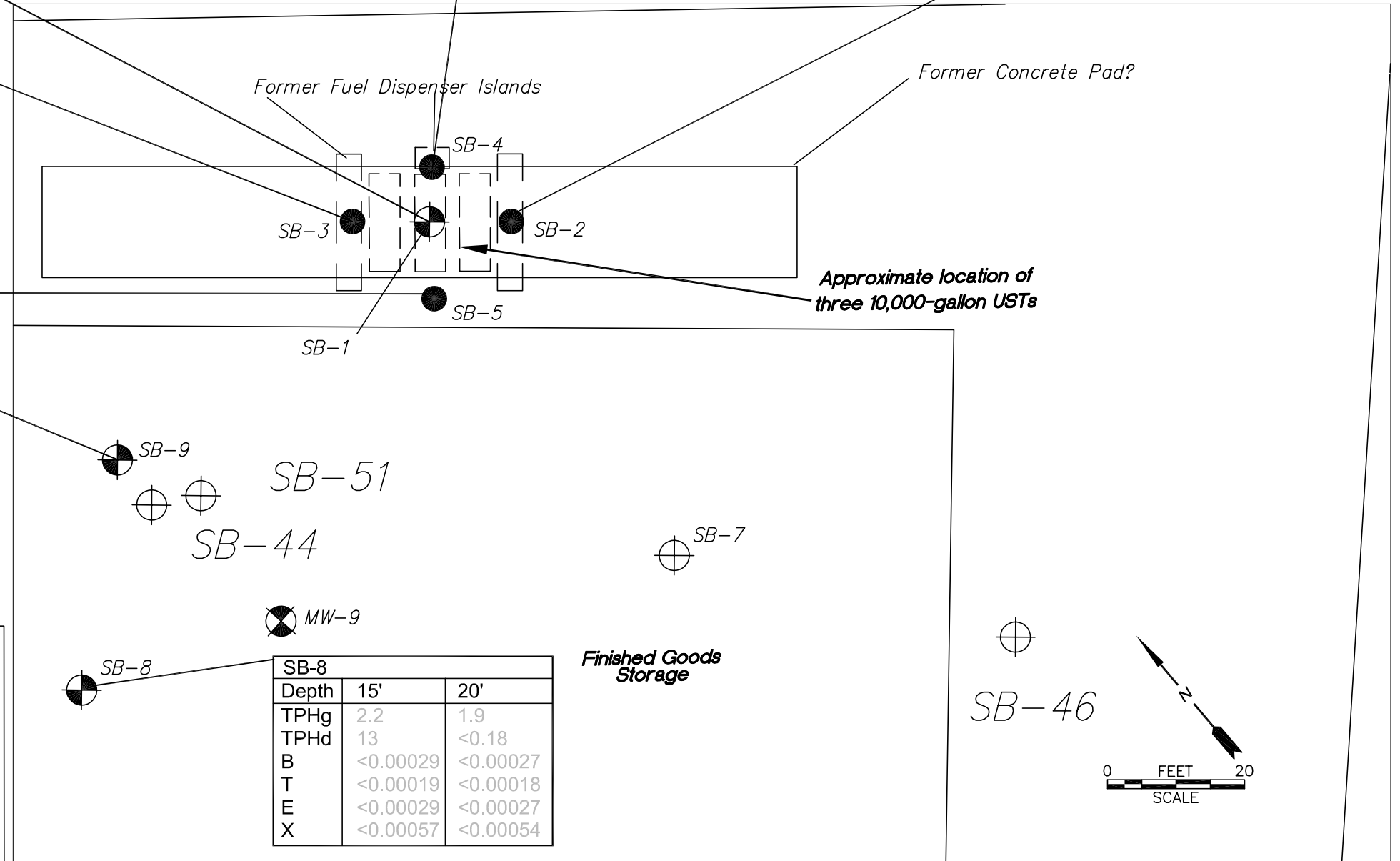
SB-2				
Depth	3'	15'	20'	25'
TPHg	68	410	1400	0.28
TPHd	110	47	120	<0.18
B	<0.42	<0.41	<1	<0.00029
T	<0.42	1.5	<1	<0.00019
E	<0.34	7.4	27	<0.00029
X	<0.75	30	62	<0.00058

SB-5				
Depth	5'	10'	20'	25'
TPHg	1.9	4.1	78	<0.02
TPHd	2700	<0.18	22	<0.18
B	<0.0003	0.012	<0.42	<0.00028
T	<0.0002	<0.0002	<0.42	<0.00019
E	<0.0003	<0.0003	<0.34	<0.00028
X	<0.0006	<0.00059	<0.76	<0.00056

SB-9		
Depth	10'	15'
TPHg	4.6	160
TPHd	240	450
B	<0.0003	<0.4
T	<0.0002	<0.4
E	<0.0003	<0.33
X	<0.0006	<0.73

Former Fuel Dispenser Islands

Former Concrete Pad?



Legend

Boring ID	SB-28	
Depth in feet below ground surface	6'	10'
Total Petroleum Hydrocarbons as Gasoline	<0.02	<0.019
Total Petroleum Hydrocarbons as Diesel	64	120
Benzene	<0.00028	<0.00027
Toluene	<0.00019	<0.00018
Ethylbenzene	<0.00028	<0.00027
Xylene	<0.00056	<0.00055

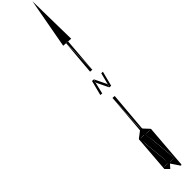
Concentrations reported in milligrams per kilogram (mg/kg)
 <0.00028 Not Detected at or above the laboratory reporting limit of <0.00028

- ⊗_{MW-7} Existing Monitoring Well Location (BSK, 1993, 2006)
- ⊗_{MW-2} Abandoned Monitoring Well (BSK, 2006)
- Soil Sample (SGI, 2007)
- ⊕ Grab Groundwater Sample (SGI, 2007)
- ⊕ Soil and Grab Groundwater Sample (SGI, 2007)

-Concentrations in bold exceed Environmental Screening Levels (ESLs) taken from the California Regional Water Quality Control Board, San Francisco Bay Region document entitled, "Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater", Interim Final November 2007. Groundwater is not a current or potential source of drinking water, commercial shallow or deep soil (less than or greater than 3 meter), commercial land use.

SB-8		
Depth	15'	20'
TPHg	2.2	1.9
TPHd	13	<0.18
B	<0.00029	<0.00027
T	<0.00019	<0.00018
E	<0.00029	<0.00027
X	<0.00057	<0.00054

Finished Goods Storage



SOIL SAMPLE RESULTS - FORMER THREE 10,000-GALLON USTs AREA - 2007

AB&I FOUNDRY
 7825 SAN LEANDRO STREET
 OAKLAND, CALIFORNIA

 SGI THE SOURCE GROUP, INC. 3451-C VINCENT ROAD PLEASANT HILL, CA 94523	Date:	Figure:
	1/20/08	6
All figures.dwg		

SG-4	
Depth	5'
PCE	0.12
Chloroethane	<0.10
Benzene	0.11
Toluene	0.22
Ethylbenzene	2
m,p-xylene	0.63

SG-6	
Depth	5'
PCE	<0.10
Chloroethane	<0.10
Benzene	<0.080
Toluene	<0.20
Ethylbenzene	0.27
m,p-xylene	<0.20

SG-5	
Depth	5'
PCE	<0.84
Chloroethane	<0.84
Benzene	0.96
Toluene	<0.84
Ethylbenzene	13
m,p-xylene	3.4

SG-8	
Depth	5'
PCE	<0.41
Chloroethane	<0.41
Benzene	<0.33
Toluene	<0.41
Ethylbenzene	1.7
m,p-xylene	0.48

SG-7	
Depth	5'
PCE	<0.10
Chloroethane	<0.10
Benzene	0.31
Toluene	<0.20
Ethylbenzene	<0.10
m,p-xylene	<0.20

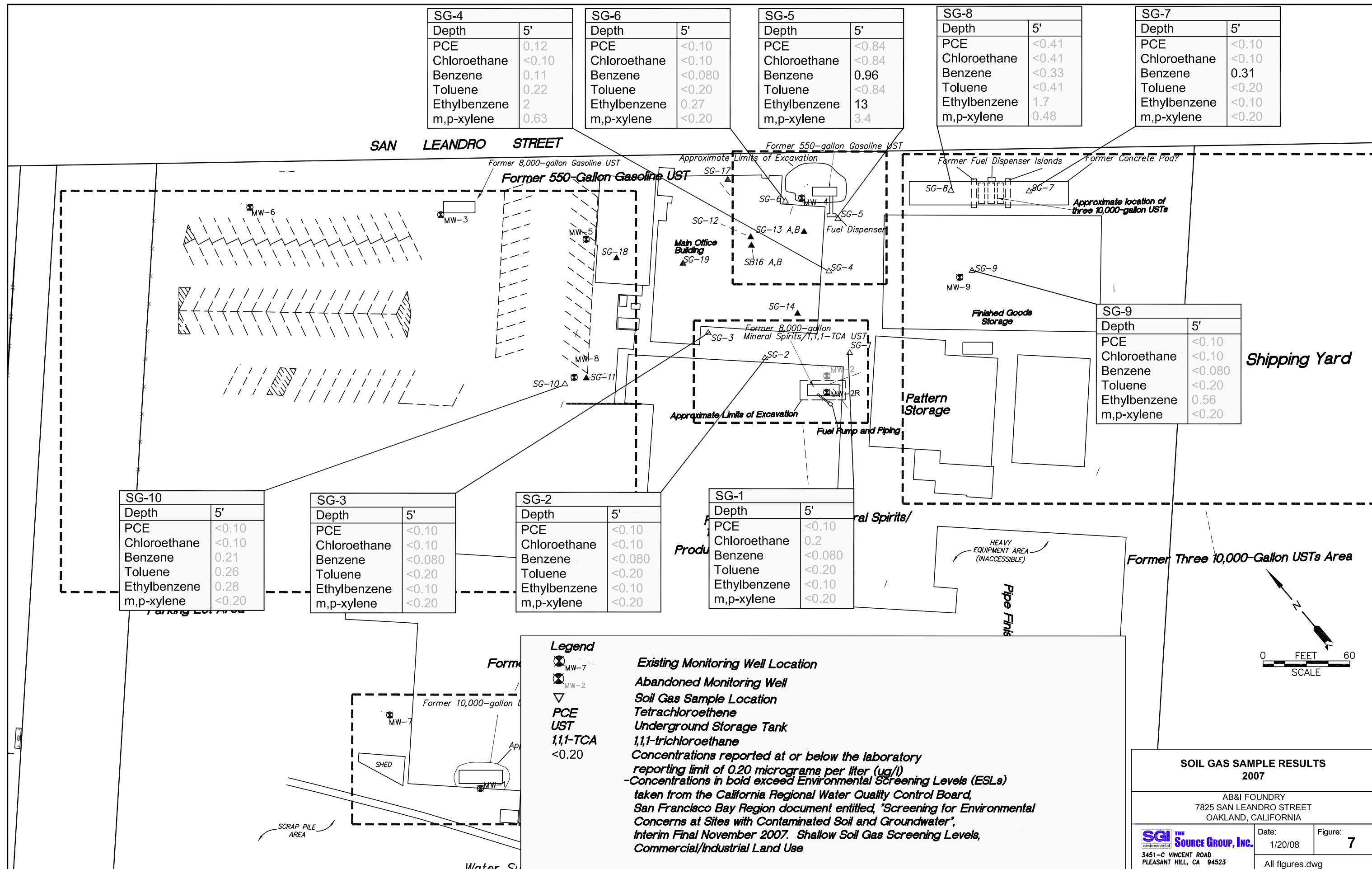
SG-9	
Depth	5'
PCE	<0.10
Chloroethane	<0.10
Benzene	<0.080
Toluene	<0.20
Ethylbenzene	0.56
m,p-xylene	<0.20

SG-10	
Depth	5'
PCE	<0.10
Chloroethane	<0.10
Benzene	0.21
Toluene	0.26
Ethylbenzene	0.28
m,p-xylene	<0.20

SG-3	
Depth	5'
PCE	<0.10
Chloroethane	<0.10
Benzene	<0.080
Toluene	<0.20
Ethylbenzene	<0.10
m,p-xylene	<0.20

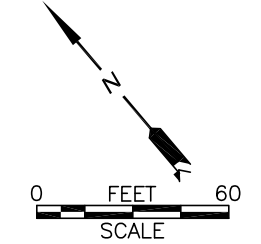
SG-2	
Depth	5'
PCE	<0.10
Chloroethane	<0.10
Benzene	<0.080
Toluene	<0.20
Ethylbenzene	<0.10
m,p-xylene	<0.20

SG-1	
Depth	5'
PCE	<0.10
Chloroethane	0.2
Benzene	<0.080
Toluene	<0.20
Ethylbenzene	<0.10
m,p-xylene	<0.20



Legend

- Existing Monitoring Well Location
- Abandoned Monitoring Well
- Soil Gas Sample Location
- Tetrachloroethene UST
- 1,1,1-trichloroethane UST
- <0.20** Concentrations reported at or below the laboratory reporting limit of 0.20 micrograms per liter (ug/l)
- <0.20** Concentrations in bold exceed Environmental Screening Levels (ESLs) taken from the California Regional Water Quality Control Board, San Francisco Bay Region document entitled, "Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater", Interim Final November 2007. Shallow Soil Gas Screening Levels, Commercial/Industrial Land Use



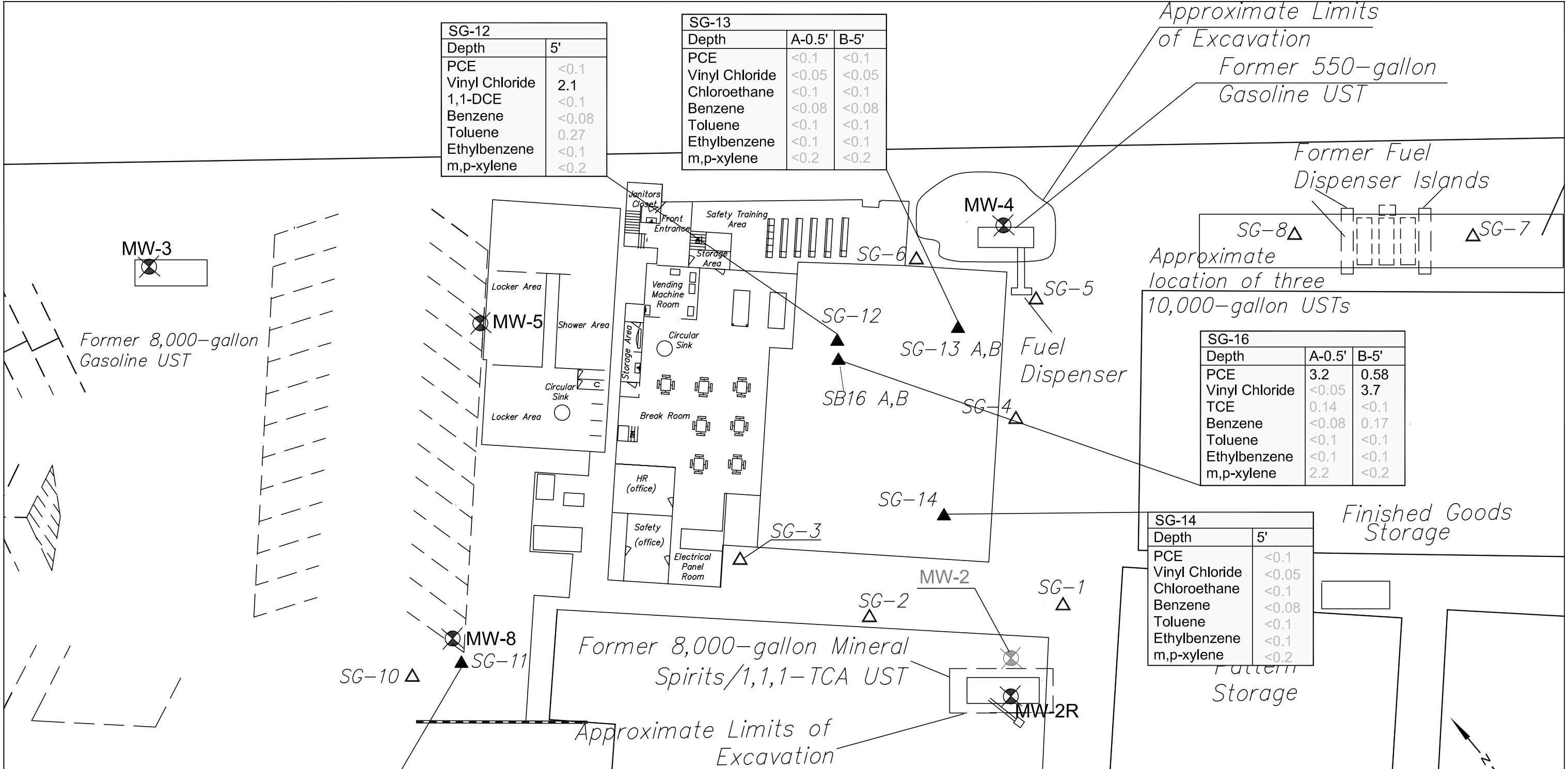
SOIL GAS SAMPLE RESULTS
2007

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Date: 1/20/08	Figure: 7
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All figures.dwg



SG-12	
Depth	5'
PCE	<0.1
Vinyl Chloride	2.1
1,1-DCE	<0.1
Benzene	<0.08
Toluene	0.27
Ethylbenzene	<0.1
m,p-xylene	<0.2

SG-13		
Depth	A-0.5'	B-5'
PCE	<0.1	<0.1
Vinyl Chloride	<0.05	<0.05
Chloroethane	<0.1	<0.1
Benzene	<0.08	<0.08
Toluene	<0.1	<0.1
Ethylbenzene	<0.1	<0.1
m,p-xylene	<0.2	<0.2

Approximate Limits of Excavation
Former 550-gallon Gasoline UST

Former Fuel Dispenser Islands

Approximate location of three 10,000-gallon USTs

SG-16		
Depth	A-0.5'	B-5'
PCE	3.2	0.58
Vinyl Chloride	<0.05	3.7
TCE	0.14	<0.1
Benzene	<0.08	0.17
Toluene	<0.1	<0.1
Ethylbenzene	<0.1	<0.1
m,p-xylene	2.2	<0.2

SG-14	
Depth	5'
PCE	<0.1
Vinyl Chloride	<0.05
Chloroethane	<0.1
Benzene	<0.08
Toluene	<0.1
Ethylbenzene	<0.1
m,p-xylene	<0.2

Finished Goods Storage

Pattern Storage

SG-11	
Depth	5'
PCE	<0.1
Vinyl Chloride	<0.05
1,1-DCA	0.19
1,1-DCE	0.15
Benzene	<0.08
Toluene	0.23
Ethylbenzene	<0.1
m,p-xylene	<0.2

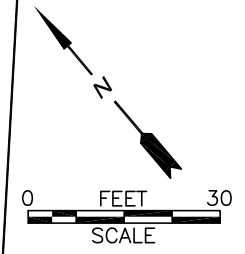
Former 8,000-gallon Mineral Spirits/1,1,1-TCA UST

Approximate Limits of Excavation

Legend

- Existing Monitoring Well Location
- Abandoned Monitoring Well
- Soil Gas Sample Location (SGI 2007)
- Soil Gas Sample Location (SGI 2008)
- PCE UST
- 1,1,1-TCA UST

Concentrations in bold exceed Environmental Screening Levels (ESLs) taken from the California Regional Water Quality Control Board, San Francisco Bay Region document entitled, "Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater", Interim Final November 2007, updated May 2008, Table E.



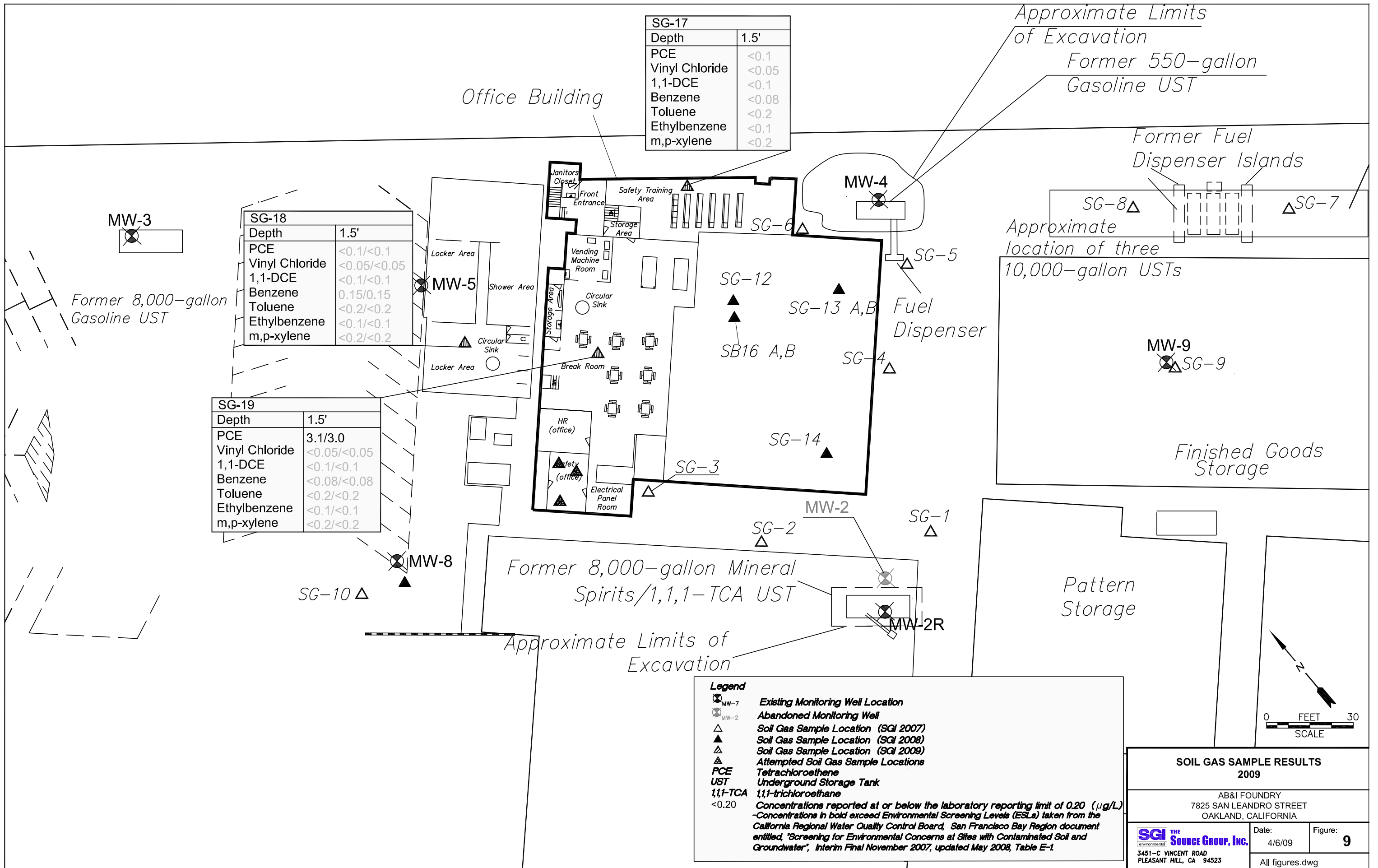
SOIL GAS SAMPLE RESULTS
2008

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Date: 1/20/08 Figure: **8**

All figures.dwg

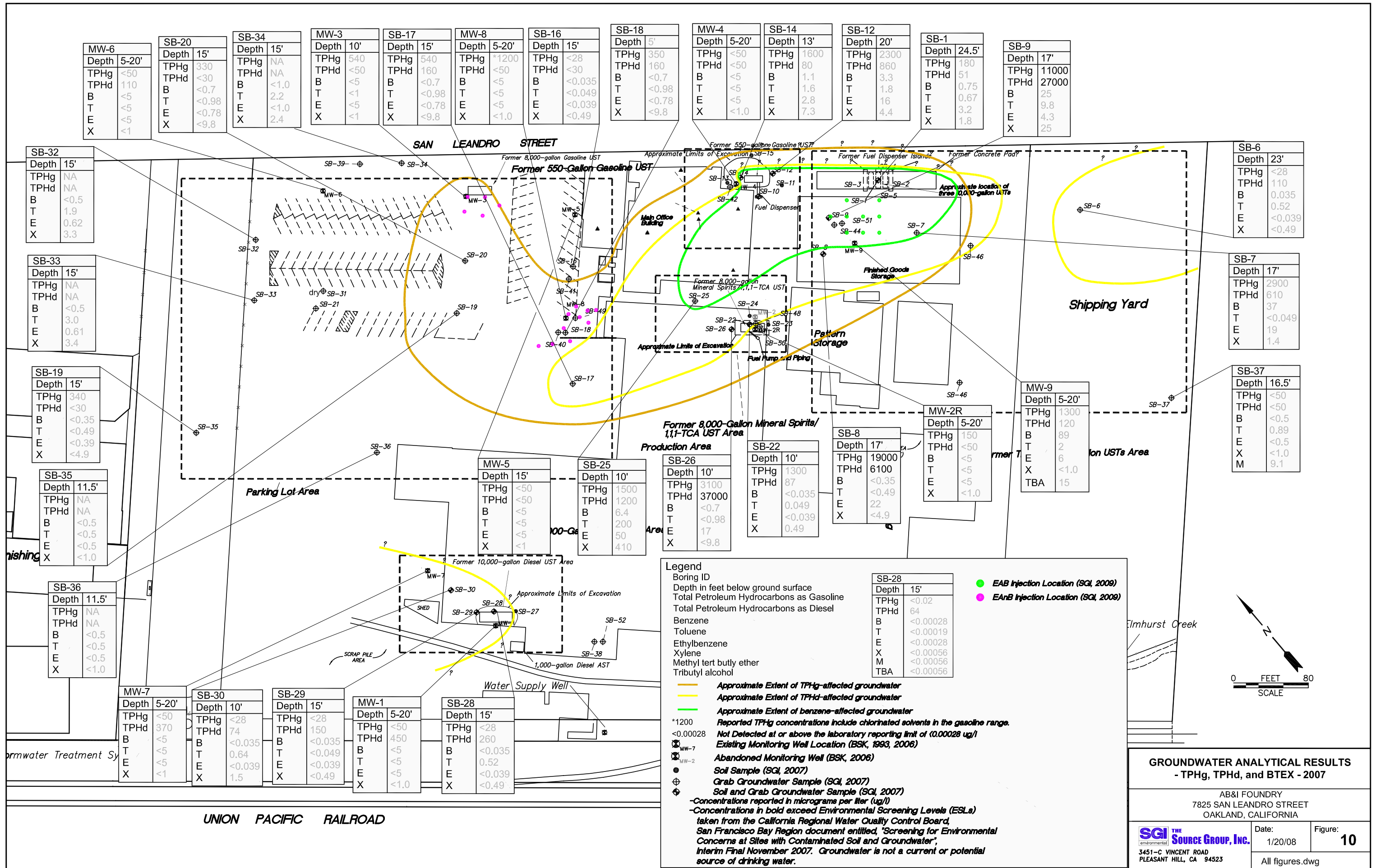


SOIL GAS SAMPLE RESULTS
2009

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Date: 4/6/09
Figure: **9**
All figures.dwg



MW-6
Depth 5-20'
TPHg <50
TPHd 110
B <5
T <5
E <5
X <1

SB-20
Depth 15'
TPHg 330
TPHd <30
B <0.7
T <0.98
E <0.78
X <9.8

SB-34
Depth 15'
TPHg NA
TPHd NA
B <1.0
T 2.2
E <1.0
X 2.4

MW-3
Depth 10'
TPHg 540
TPHd <50
B <1
T <1
E <5
X <1

SB-17
Depth 15'
TPHg 540
TPHd 160
B <0.7
T <0.98
E <0.78
X <9.8

MW-8
Depth 5-20'
TPHg *1200
TPHd <50
B <5
T <5
E <5
X <1.0

SB-16
Depth 15'
TPHg <28
TPHd <30
B <0.035
T <0.049
E <0.039
X <0.49

SB-18
Depth 5'
TPHg 350
TPHd 160
B <0.7
T <0.98
E <0.78
X <9.8

MW-4
Depth 5-20'
TPHg <50
TPHd <50
B <5
T <5
E <5
X <1.0

SB-14
Depth 13'
TPHg 1600
TPHd 80
B 1.1
T 1.6
E 2.8
X 7.3

SB-12
Depth 20'
TPHg 2300
TPHd 860
B 3.3
T 1.8
E 16
X 4.4

SB-1
Depth 24.5'
TPHg 180
TPHd 51
B 0.75
T 0.67
E 3.2
X 1.8

SB-9
Depth 17'
TPHg 11000
TPHd 27000
B 25
T 9.8
E 4.3
X 25

SB-32
Depth 15'
TPHg NA
TPHd NA
B <0.5
T 1.9
E 0.62
X 3.3

SB-33
Depth 15'
TPHg NA
TPHd NA
B <0.5
T 3.0
E 0.61
X 3.4

SB-19
Depth 15'
TPHg 340
TPHd <30
B <0.35
T <0.49
E <0.39
X <4.9

SB-35
Depth 11.5'
TPHg NA
TPHd NA
B <0.5
T <0.5
E <0.5
X <1.0

SB-36
Depth 11.5'
TPHg NA
TPHd NA
B <0.5
T <0.5
E <0.5
X <1.0

MW-7
Depth 5-20'
TPHg <50
TPHd 370
B <5
T <5
E <5
X <1

SB-30
Depth 10'
TPHg <28
TPHd 74
B <0.035
T 0.64
E <0.039
X 1.5

SB-29
Depth 15'
TPHg <28
TPHd 150
B <0.035
T <0.049
E <0.039
X <0.49

MW-1
Depth 5-20'
TPHg <50
TPHd 450
B <5
T <5
E <5
X <1.0

SB-28
Depth 15'
TPHg <28
TPHd 260
B <0.035
T 0.52
E <0.039
X <0.49

SB-6
Depth 23'
TPHg <28
TPHd 110
B 0.035
T 0.52
E <0.039
X <0.49

SB-7
Depth 17'
TPHg 2900
TPHd 610
B 37
T <0.049
E 19
X 1.4

SB-37
Depth 16.5'
TPHg <50
TPHd <50
B <0.5
T 0.89
E <0.5
X <1.0
M 9.1

SB-28
Depth 15'
TPHg <0.02
TPHd 64
B <0.00028
T <0.00019
E <0.00028
X <0.00056
M <0.00056
TBA <0.00056

Legend
 Boring ID
 Depth in feet below ground surface
 Total Petroleum Hydrocarbons as Gasoline
 Total Petroleum Hydrocarbons as Diesel
 Benzene
 Toluene
 Ethylbenzene
 Xylene
 Methyl tert butyl ether
 Tributyl alcohol

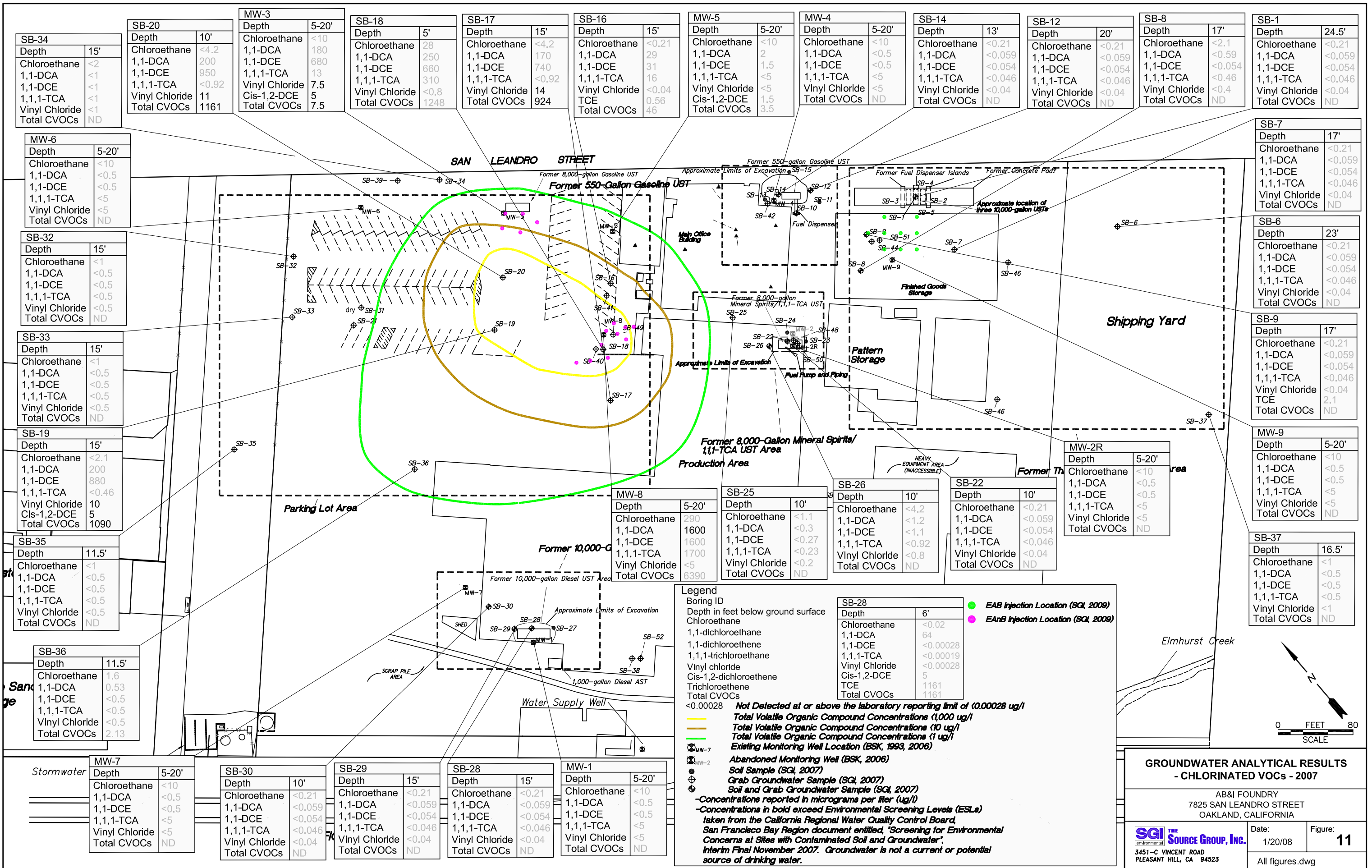
— Approximate Extent of TPHg-affected groundwater
 — Approximate Extent of TPHd-affected groundwater
 — Approximate Extent of benzene-affected groundwater
 Reported TPHg concentrations include chlorinated solvents in the gasoline range.
 *1200
 <0.00028
 Not Detected at or above the laboratory reporting limit of (0.00028 ug/l)
 Existing Monitoring Well Location (BSK, 1993, 2006)
 Abandoned Monitoring Well (BSK, 2006)
 Soil Sample (SGI, 2007)
 Grab Groundwater Sample (SGI, 2007)
 Soil and Grab Groundwater Sample (SGI, 2007)
 -Concentrations reported in micrograms per liter (ug/l)
 -Concentrations in bold exceed Environmental Screening Levels (ESLs)
 taken from the California Regional Water Quality Control Board,
 San Francisco Bay Region document entitled, "Screening for Environmental
 Concerns at Sites with Contaminated Soil and Groundwater",
 Interim Final November 2007. Groundwater is not a current or potential
 source of drinking water.

GROUNDWATER ANALYTICAL RESULTS
 - TPHg, TPHd, and BTEX - 2007

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 OAKLAND, CALIFORNIA

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Date: 1/20/08
 Figure: 10
 All figures.dwg



SB-34	
Depth	15'
Chloroethane	<2
1,1-DCA	<1
1,1-DCE	<1
1,1,1-TCA	<1
Vinyl Chloride	<1
Total CVOCs	ND

SB-20	
Depth	10'
Chloroethane	<4.2
1,1-DCA	200
1,1-DCE	950
1,1,1-TCA	<0.92
Vinyl Chloride	11
Total CVOCs	1161

MW-3	
Depth	5-20'
Chloroethane	<10
1,1-DCA	180
1,1-DCE	680
1,1,1-TCA	13
Vinyl Chloride	7.5
Cis-1,2-DCE	5
Total CVOCs	7.5

SB-18	
Depth	5'
Chloroethane	28
1,1-DCA	250
1,1-DCE	660
1,1,1-TCA	310
Vinyl Chloride	<0.8
Total CVOCs	1248

SB-17	
Depth	15'
Chloroethane	<4.2
1,1-DCA	170
1,1-DCE	740
1,1,1-TCA	<0.92
Vinyl Chloride	14
Total CVOCs	924

SB-16	
Depth	15'
Chloroethane	<0.21
1,1-DCA	29
1,1-DCE	31
1,1,1-TCA	16
Vinyl Chloride	<0.04
TCE	0.56
Total CVOCs	46

MW-5	
Depth	5-20'
Chloroethane	<10
1,1-DCA	2
1,1-DCE	1.5
1,1,1-TCA	<5
Vinyl Chloride	<5
Cis-1,2-DCE	1.5
Total CVOCs	3.5

MW-4	
Depth	5-20'
Chloroethane	<10
1,1-DCA	<0.5
1,1-DCE	<0.5
1,1,1-TCA	<5
Vinyl Chloride	<5
Total CVOCs	ND

SB-14	
Depth	13'
Chloroethane	<0.21
1,1-DCA	<0.059
1,1-DCE	<0.054
1,1,1-TCA	<0.046
Vinyl Chloride	<0.04
Total CVOCs	ND

SB-12	
Depth	20'
Chloroethane	<0.21
1,1-DCA	<0.059
1,1-DCE	<0.054
1,1,1-TCA	<0.046
Vinyl Chloride	<0.04
Total CVOCs	ND

SB-8	
Depth	17'
Chloroethane	<2.1
1,1-DCA	<0.59
1,1-DCE	<0.054
1,1,1-TCA	<0.46
Vinyl Chloride	<0.4
Total CVOCs	ND

SB-1	
Depth	24.5'
Chloroethane	<0.21
1,1-DCA	<0.059
1,1-DCE	<0.054
1,1,1-TCA	<0.046
Vinyl Chloride	<0.04
Total CVOCs	ND

MW-6	
Depth	5-20'
Chloroethane	<10
1,1-DCA	<0.5
1,1-DCE	<0.5
1,1,1-TCA	<5
Vinyl Chloride	<5
Total CVOCs	ND

SB-32	
Depth	15'
Chloroethane	<1
1,1-DCA	<0.5
1,1-DCE	<0.5
1,1,1-TCA	<0.5
Vinyl Chloride	<0.5
Total CVOCs	ND

SB-33	
Depth	15'
Chloroethane	<1
1,1-DCA	<0.5
1,1-DCE	<0.5
1,1,1-TCA	<0.5
Vinyl Chloride	<0.5
Total CVOCs	ND

SB-19	
Depth	15'
Chloroethane	<2.1
1,1-DCA	200
1,1-DCE	880
1,1,1-TCA	<0.46
Vinyl Chloride	10
Cis-1,2-DCE	5
Total CVOCs	1090

SB-35	
Depth	11.5'
Chloroethane	<1
1,1-DCA	<0.5
1,1-DCE	<0.5
1,1,1-TCA	<0.5
Vinyl Chloride	<0.5
Total CVOCs	ND

SB-36	
Depth	11.5'
Chloroethane	1.6
1,1-DCA	0.53
1,1-DCE	<0.5
1,1,1-TCA	<0.5
Vinyl Chloride	<0.5
Total CVOCs	2.13

MW-7	
Depth	5-20'
Chloroethane	<10
1,1-DCA	<0.5
1,1-DCE	<0.5
1,1,1-TCA	<5
Vinyl Chloride	<5
Total CVOCs	ND

SB-30	
Depth	10'
Chloroethane	<0.21
1,1-DCA	<0.059
1,1-DCE	<0.054
1,1,1-TCA	<0.046
Vinyl Chloride	<0.04
Total CVOCs	ND

SB-29	
Depth	15'
Chloroethane	<0.21
1,1-DCA	<0.059
1,1-DCE	<0.054
1,1,1-TCA	<0.046
Vinyl Chloride	<0.04
Total CVOCs	ND

SB-28	
Depth	15'
Chloroethane	<0.21
1,1-DCA	<0.059
1,1-DCE	<0.054
1,1,1-TCA	<0.046
Vinyl Chloride	<0.04
Total CVOCs	ND

MW-1	
Depth	5-20'
Chloroethane	<10
1,1-DCA	<0.5
1,1-DCE	<0.5
1,1,1-TCA	<5
Vinyl Chloride	<5
Total CVOCs	ND

MW-8	
Depth	5-20'
Chloroethane	290
1,1-DCA	1600
1,1-DCE	1600
1,1,1-TCA	1700
Vinyl Chloride	<5
Total CVOCs	6390

SB-25	
Depth	10'
Chloroethane	<1.1
1,1-DCA	<0.3
1,1-DCE	<0.27
1,1,1-TCA	<0.23
Vinyl Chloride	<0.2
Total CVOCs	ND

SB-26	
Depth	10'
Chloroethane	<4.2
1,1-DCA	<1.2
1,1-DCE	<1.1
1,1,1-TCA	<0.92
Vinyl Chloride	<0.8
Total CVOCs	ND

SB-22	
Depth	10'
Chloroethane	<0.21
1,1-DCA	<0.059
1,1-DCE	<0.054
1,1,1-TCA	<0.046
Vinyl Chloride	<0.04
Total CVOCs	ND

MW-2R	
Depth	5-20'
Chloroethane	<10
1,1-DCA	<0.5
1,1-DCE	<0.5
1,1,1-TCA	<5
Vinyl Chloride	<5
Total CVOCs	ND

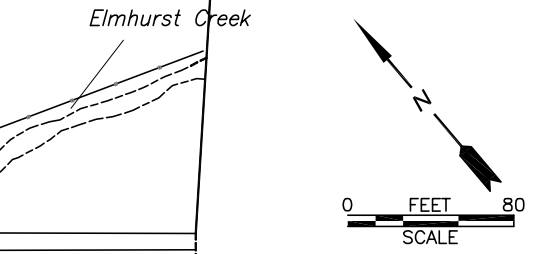
SB-37	
Depth	16.5'
Chloroethane	<1
1,1-DCA	<0.5
1,1-DCE	<0.5
1,1,1-TCA	<0.5
Vinyl Chloride	<1
Total CVOCs	ND

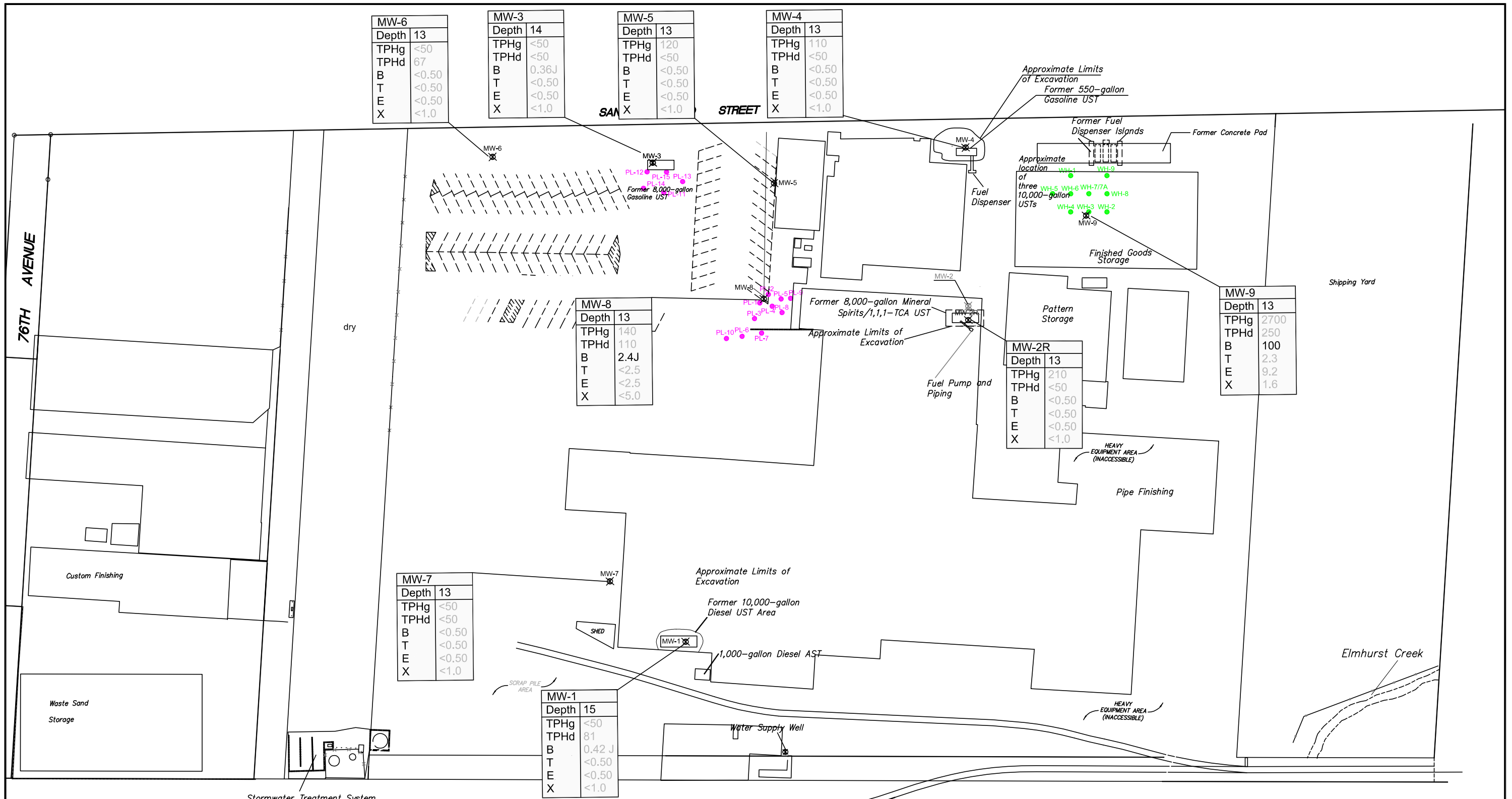
Legend

Boring ID
 Depth in feet below ground surface
 Chloroethane
 1,1-dichloroethane
 1,1-dichloroethene
 1,1,1-trichloroethane
 Vinyl chloride
 Cis-1,2-dichloroethene
 Trichloroethene
 Total CVOCs
 <0.00028

● EAB Injection Location (SGI, 2009)
 ● EAnB Injection Location (SGI, 2009)

● Not Detected at or above the laboratory reporting limit of (0.00028 ug/l)
 ● Total Volatile Organic Compound Concentrations (1,000 ug/l)
 ● Total Volatile Organic Compound Concentrations (10 ug/l)
 ● Total Volatile Organic Compound Concentrations (1 ug/l)
 ● Existing Monitoring Well Location (BSK, 1993, 2006)
 ● Abandoned Monitoring Well (BSK, 2006)
 ● Soil Sample (SGI, 2007)
 ● Grab Groundwater Sample (SGI, 2007)
 ● Soil and Grab Groundwater Sample (SGI, 2007)
 ● Concentrations reported in micrograms per liter (ug/l)
 ● Concentrations in bold exceed Environmental Screening Levels (ESLs) taken from the California Regional Water Quality Control Board, San Francisco Bay Region document entitled, "Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater", Interim Final November 2007. Groundwater is not a current or potential source of drinking water.





LEGEND

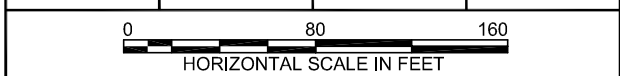
- MW-1 Boring ID
- Depth Depth in feet below ground surface
- TPHg Total Petroleum Hydrocarbons as Gasoline
- TPHd Total Petroleum Hydrocarbons as Diesel
- B Benzene
- T Toluene
- E Ethylbenzene
- X Xylene
- <0.5 Not Detected at or above the laboratory Practical Quantitation Limit (PQL) of <0.50 ug/l

- *1200 Reported TPHg concentrations include chlorinated solvents in the gasoline range.
- MW-2R Existing Monitoring Well Location (BSK, 1993, 2006)
- MW-2 Abandoned Monitoring Well (BSK, 2006)
- PL-13 June 2009 EAnB Injection Location
- PL-10 June 2009 EAB Injection Location

NOTES: 1. Concentrations reported in micrograms per liter (ug/l)
2. Concentrations in bold exceed MCLs

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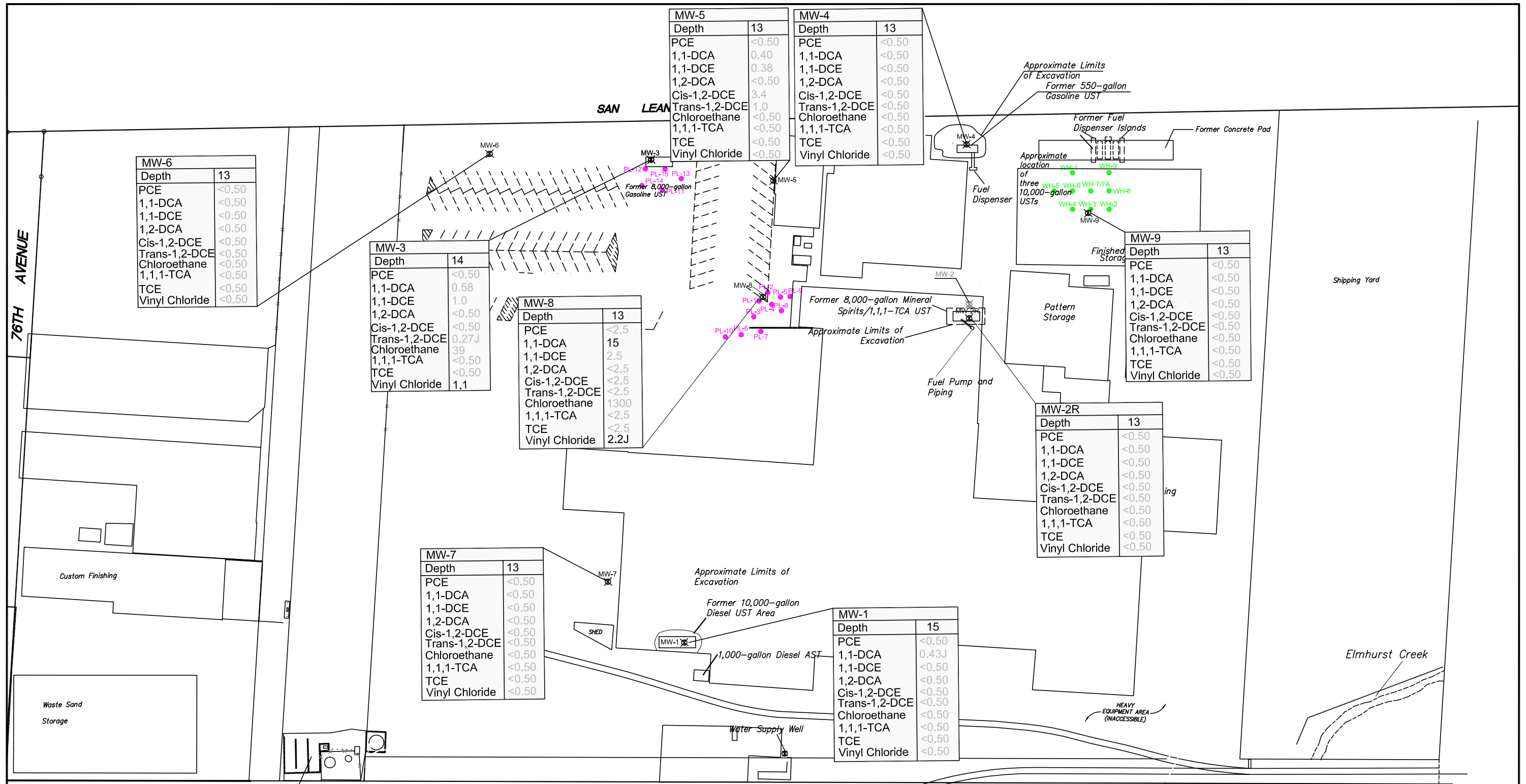
GROUNDWATER ANALYTICAL RESULTS
-TPHg, TPHd, and BTEX-
JULY 2010



environmental **SGI THE SOURCE GROUP, INC.**
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PLEASANT HILL, CA 94523



FIGURE
12



LEGEND

MW-2R	Boring ID	<0.5	Not Detected at or above the laboratory Practical Quantitation Limit (PQL) of <0.50 ug/l)
Depth	Depth in feet below ground surface	MW-2R	Existing Monitoring Well Location (BSK, 1993, 2006)
PCE	Tetrachloroethene	MW-2	Abandoned Monitoring Well (BSK, 2006)
1,1-DCA	1,1-dichloroethane	PL-10	June 2009 EAB Injection Location
1,1-DCE	1,1-dichloroethene	PL-13	June 2009 EAnB Injection Location
1,2-DCA	1,2 Dichloroethane		
Cis-1,2-DCE	Cis-1,2-dichloroethene		
Trans-1,2-DCE	Trans-1,2-dichloroethene		
Chloroethane	Chloroethane		
1,1,1-TCA	1,1,1-trichloroethane		
TCE	Trichloroethene		
Vinyl Chloride	Vinyl Chloride		

NOTES:
 1. Concentrations reported in micrograms per liter (ug/l)
 2. Concentrations in bold exceed MCLs

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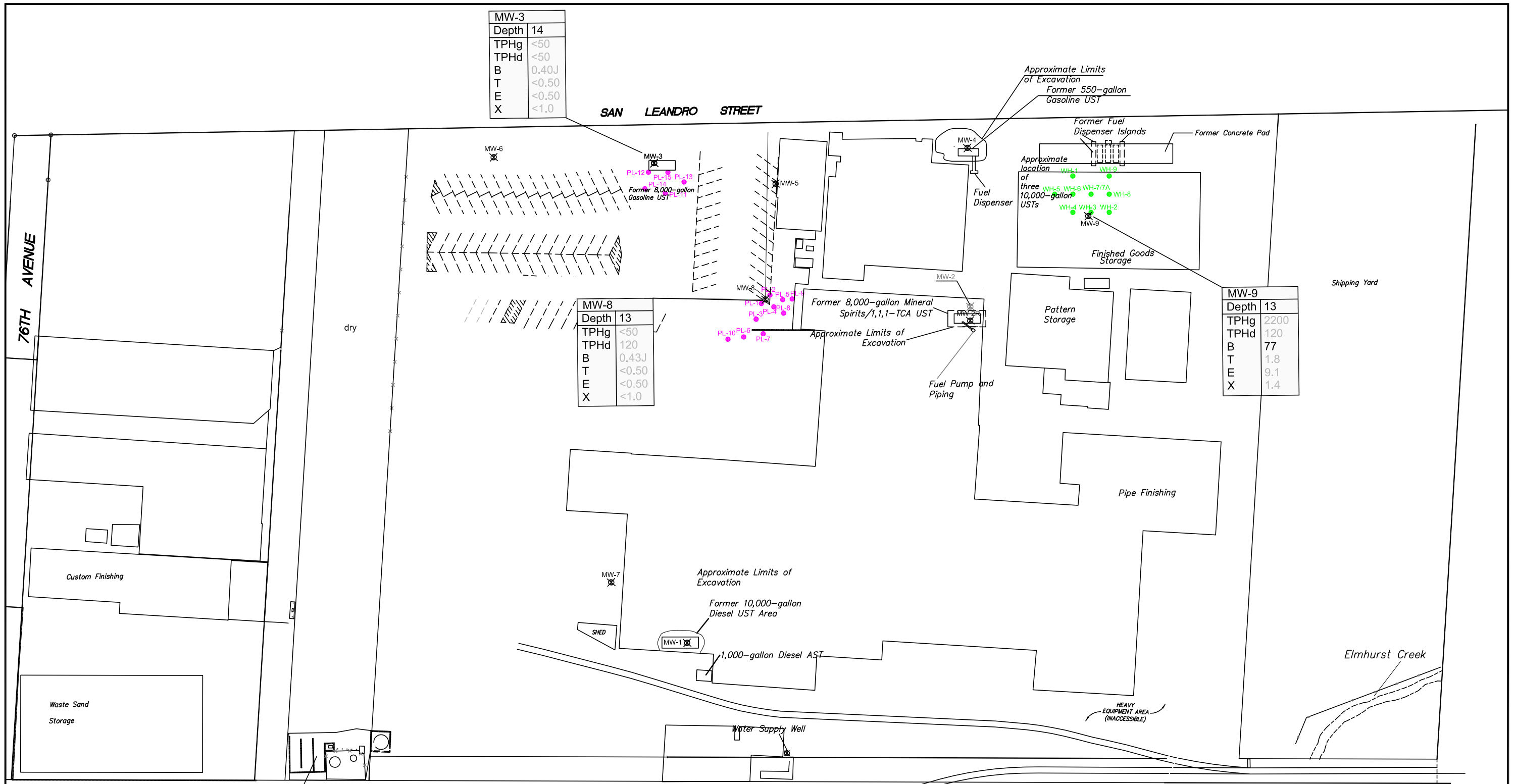
PROJECT NO.	DATE	DRAWN BY:	APP. BY:
01-ABI-001	08/24/2010	ZA	KD

0 80 160
 HORIZONTAL SCALE IN FEET

GROUNDWATER ANALYTICAL RESULTS
-CHLORINATED VOCs-
JULY 2010

SGI THE SOURCE GROUP, INC.
 environmental
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 PLEASANT HILL, CA 94523

FIGURE 13



LEGEND

MW-1	Boring ID
Depth	Depth in feet below ground surface
TPHg	Total Petroleum Hydrocarbons as Gasoline
TPHd	Total Petroleum Hydrocarbons as Diesel
B	Benzene
T	Toluene
E	Ethylbenzene
X	Xylene
<0.5	Not Detected at or above the laboratory Practical Quantitation Limit (PQL) of <0.50 ug/l)

*1200	Reported TPHg concentrations include chlorinated solvents in the gasoline range.
MW-2R	Existing Monitoring Well Location (BSK, 1993, 2006)
MW-2	Abandoned Monitoring Well (BSK, 2006)
PL-13	June 2009 EAnB Injection Location
PL-10	June 2009 EAB Injection Location

NOTES:

- Concentrations reported in micrograms per liter (ug/l)
- Concentrations in bold exceed MCLs

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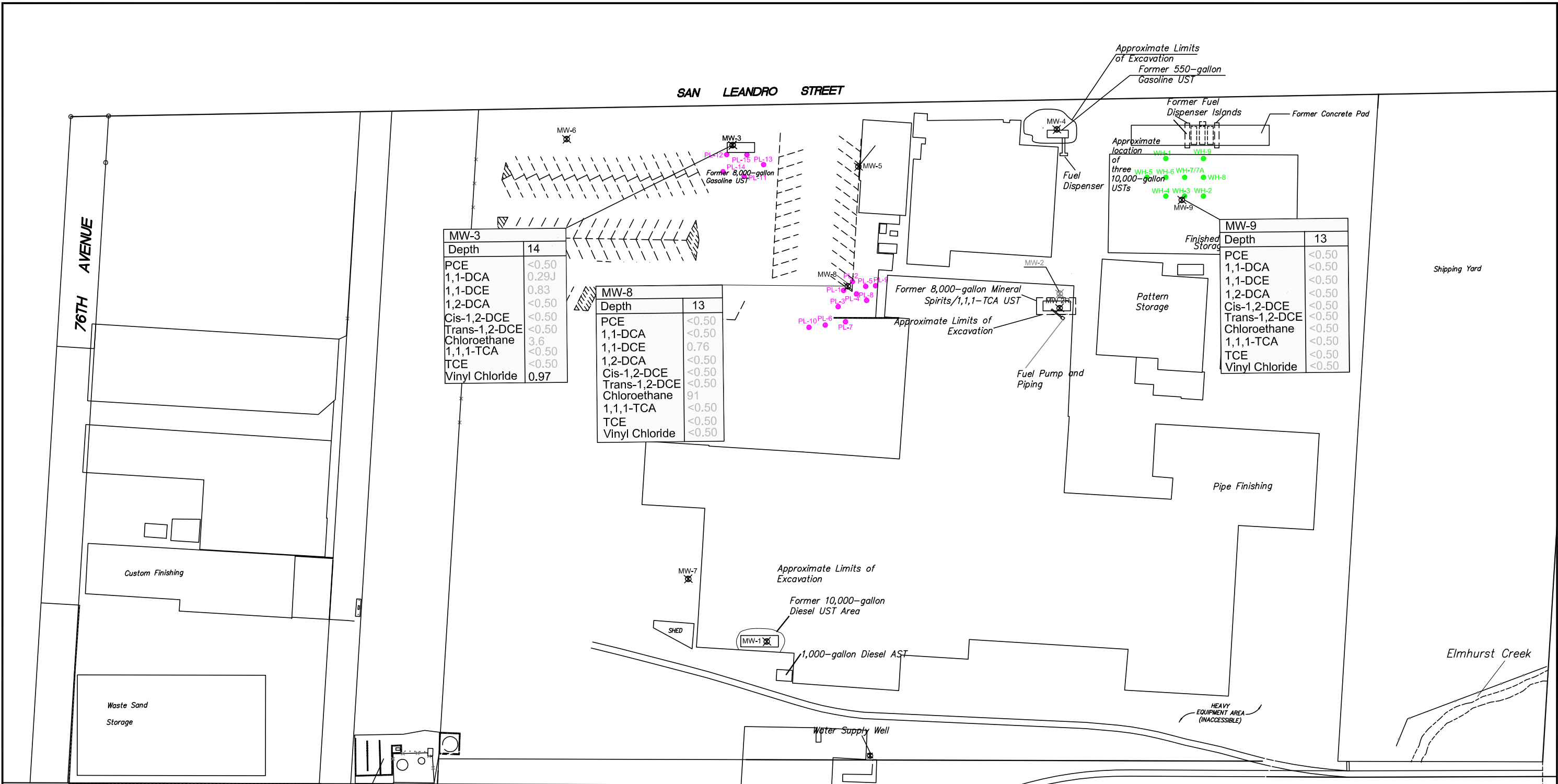
PROJECT NO.	DATE	DRAWN BY:	APP. BY:
01-ABI-001	1/12/2010	ZA	KD

0 80 160
HORIZONTAL SCALE IN FEET

GROUNDWATER ANALYTICAL RESULTS
-TPHg, TPHd, and BTEX-
DECEMBER 2010

SGI THE SOURCE GROUP, INC.
environmental
3451-C VINCENT ROAD
PLEASANT HILL, CA 94523

FIGURE 14



MW-3	Depth	14
	PCE	<0.50
	1,1-DCA	0.29J
	1,1-DCE	0.83
	1,2-DCA	<0.50
	Cis-1,2-DCE	<0.50
	Trans-1,2-DCE	<0.50
	Chloroethane	3.6
	1,1,1-TCA	<0.50
	TCE	<0.50
	Vinyl Chloride	0.97

MW-8	Depth	13
	PCE	<0.50
	1,1-DCA	<0.50
	1,1-DCE	0.76
	1,2-DCA	<0.50
	Cis-1,2-DCE	<0.50
	Trans-1,2-DCE	<0.50
	Chloroethane	91
	1,1,1-TCA	<0.50
	TCE	<0.50
	Vinyl Chloride	<0.50

MW-9	Depth	13
	PCE	<0.50
	1,1-DCA	<0.50
	1,1-DCE	<0.50
	1,2-DCA	<0.50
	Cis-1,2-DCE	<0.50
	Trans-1,2-DCE	<0.50
	Chloroethane	<0.50
	1,1,1-TCA	<0.50
	TCE	<0.50
	Vinyl Chloride	<0.50

LEGEND

MW-2R	Boring ID
Depth	Depth in feet below ground surface
PCE	Tetrachlorethane
1,1-DCA	1,1-dichloroethane
1,1-DCE	1,1-dichloroethene
1,2-DCA	1,2 Dichloroethane
Cis-1,2-DCE	Cis-1,2-dichloroethene
Trans-1,2-DCE	Trans-1,2-dichloroethene
Chloroethane	Chloroethane
1,1,1-TCA	1,1,1-trichloroethane
TCE	Trichloroethene
Vinyl Chloride	Vinyl Chloride

<0.5

MW-2R

MW-2

PL-10

PL-13

NOTES:

Not Detected at or above the laboratory Practical Quantitation Limit (PQL) of <0.50 ug/l)

Existing Monitoring Well Location (BSK, 1993, 2006)

Abandoned Monitoring Well (BSK, 2006)

June 2009 EAB Injection Location

June 2009 EAnB Injection Location

1. Concentrations reported in micrograms per liter (ug/l)

2. Concentrations in bold exceed MCLs

AB&I FOUNDRY
7825 SAN LEANDRO STREET
OAKLAND, CALIFORNIA

PROJECT NO.	DATE	DRAWN BY:	APP. BY:
01-ABI-001	08/24/2010	ZA	KD

0 80 160
HORIZONTAL SCALE IN FEET

GROUNDWATER ANALYTICAL RESULTS
-CHLORINATED VOCs-
DECEMBER 2010

SGI THE SOURCE GROUP, INC.
environmental
3451-C VINCENT ROAD
PLEASANT HILL, CA 94523

FIGURE 15

TABLES

Table 1
Summary of Soil Sample Results - Organics
 AB&I Foundry
 7825 San Leandro Street
 Oakland, California

Sample ID	Depth	Date	TPHg	TPHd	MTBE	Chloroethane	Benzene	Ethylbenzene	Toluene	Xylenes, Total
Units	(feet)		(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
RWQCB ESLs	Residential		100	100	8.4	10	0.12	33	29	31
	Commercial		450	150	8.4	11	0.26	33	29	100
Former Three 10,000-Gallon USTs										
SB-01-05	5	10/30/2007	<0.02	65	NA	NA	<0.00028	<0.00028	<0.00019	<0.00057
SB-01-10	10	10/30/2007	91	2.4	NA	NA	<0.42	<0.34	<0.42	<0.76
SB-01-20	20	10/30/2007	450	8.9	NA	NA	<0.41	4.9	<0.41	<0.75
SB-01-28	28	10/30/2007	0.39	<0.18	NA	NA	<0.00029	<0.00029	<0.00019	<0.00057
SB-02-03	3	10/30/2007	68	110	NA	NA	<0.42	<0.34	<0.42	<0.75
SB-02-15	15	10/30/2007	410	47	NA	NA	<0.41	7.4	1.5	30
SB-02-20	20	10/30/2007	1400	120	NA	NA	<1	27	<1	62
SB-02-25	25	10/30/2007	0.28	<0.18	NA	NA	<0.00029	<0.00029	<0.00019	<0.00058
SB-03-05	5	10/30/2007	<0.02	<0.18	NA	NA	<0.00028	<0.00028	0.008	<0.00057
SB-03-10	10	10/30/2007	1.3	1.4	NA	NA	0.0049	<0.00028	<0.00019	<0.00056
SB-03-15	15	10/30/2007	1400	660	NA	NA	<0.98	12	<0.98	<1.8
SB-03-25	25	10/30/2007	<0.021	<0.18	NA	NA	<0.0003	<0.0003	<0.0002	<0.0006
SB-04-10	10	10/30/2007	<0.02	<0.18	NA	NA	<0.00029	<0.00029	<0.00019	<0.00057
SB-04-15	15	10/30/2007	790	44	NA	NA	<0.11	2.4	<0.074	<0.22
SB-04-20	20	10/30/2007	470	4.3	NA	NA	<0.38	4	<0.38	<0.68
SB-04-24	24	10/30/2007	<0.021	<0.18	NA	NA	<0.0003	<0.0003	<0.0002	<0.0006
SB-05-05	5	10/31/2007	1.9	2700	NA	NA	<0.0003	<0.0003	<0.0002	<0.0006
SB-05-10	10	10/31/2007	4.1	<0.18	NA	NA	0.012	<0.0003	<0.0002	<0.00059
SB-05-20	20	10/31/2007	78	22	NA	NA	<0.42	<0.34	<0.42	<0.76
SB-05-25	25	10/31/2007	<0.02	<0.18	NA	NA	<0.00028	<0.00028	<0.00019	<0.00056
SB-08-15	15	10/31/2007	2.2	13	NA	NA	<0.00029	<0.00029	<0.00019	<0.00057
SB-08-20	20	10/31/2007	1.9	<0.18	NA	NA	<0.00027	<0.00027	<0.00018	<0.00054
SB-09-10	10	10/31/2007	4.6	240	NA	NA	<0.0003	<0.0003	<0.0002	<0.0006
SB-09-15	15	10/31/2007	160	450	NA	NA	<0.4	<0.33	<0.4	<0.73
Former 550-Gallon Gasoline UST										
SB-10-05	5	10/31/2007	320	50	NA	NA	<0.4	<0.33	<0.4	<0.73
SB-10-10	10	10/31/2007	450	38	NA	NA	<0.4	1.4	<0.4	<0.72
SB-10-15	15	10/31/2007	330	82	NA	NA	<0.4	<0.32	<0.4	<0.72
SB-10-20	20	10/31/2007	5.4	5.1	NA	NA	<0.00029	<0.00029	<0.00019	<0.00057
SB-10-25	25	10/31/2007	<0.02	<0.18	NA	NA	<0.00029	<0.00029	<0.00019	<0.00058
SB-11-05	5	11/1/2007	8.6	NA	NA	NA	<0.0006	<0.0006	<0.0004	<0.0012
SB-11-10	10	11/1/2007	71	NA	NA	NA	<0.38	<0.31	<0.38	<0.69
SB-11-20	20	11/1/2007	<0.021	NA	NA	NA	<0.0003	<0.0003	<0.0002	<0.00059

Table 1
Summary of Soil Sample Results - Organics
 AB&I Foundry
 7825 San Leandro Street
 Oakland, California

Sample ID	Depth	Date	TPHg	TPHd	MTBE	Chloroethane	Benzene	Ethylbenzene	Toluene	Xylenes, Total
Units	(feet)		(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
RWQCB ESLs	Residential		100	100	8.4	10	0.12	33	29	31
	Commercial		450	150	8.4	11	0.26	33	29	100
SB-12-05	5	11/1/2007	<0.02	NA	NA	NA	<0.00028	<0.00028	<0.00019	<0.00057
SB-12-10	10	11/1/2007	<0.02	NA	NA	NA	<0.00028	<0.00028	<0.00019	<0.00057
SB-12-15	15	11/1/2007	250	NA	NA	NA	<0.39	<0.32	<0.39	<0.71
SB-12-25	25	11/1/2007	<0.02	NA	NA	NA	<0.00029	<0.00029	<0.00019	<0.00058
SB-13-05	5	11/1/2007	<0.019	NA	NA	NA	<0.00027	<0.00027	<0.00018	<0.00055
SB-13-10	10	11/1/2007	0.91	NA	NA	NA	<0.0003	<0.0003	<0.0002	<0.0006
SB-13-15	15	11/1/2007	78	NA	NA	NA	<0.38	<0.31	<0.38	<0.68
SB-13-25	25	11/1/2007	420	NA	NA	NA	<0.42	<0.34	<0.42	<0.75
SB-14-03	3	11/1/2007	<0.02	NA	NA	NA	<0.00028	<0.00028	<0.00019	<0.00056
SB-14-10	10	11/1/2007	<0.02	NA	NA	NA	<0.00029	<0.00029	<0.00019	<0.00058
SB-14-15	15	11/1/2007	30	NA	NA	NA	<0.00093	<0.00093	<0.00062	<0.0019
SB-15-05	5	11/1/2007	<0.019	NA	NA	NA	<0.00027	<0.00027	<0.00018	<0.00055
SB-15-10	10	11/1/2007	<0.02	NA	NA	NA	<0.00028	<0.00028	<0.00019	<0.00056
SB-15-15	15	11/1/2007	1100	NA	NA	NA	<0.39	<0.31	<0.39	<0.7
SB-15-19	19	11/1/2007	7.9	NA	NA	NA	<0.0004	0.019	<0.00026	<0.00079
Former 8,000-Gallon Mineral Spirits/ 1,1,1-TCA UST										
SB-22-03	3	11/2/2007	0.29	90	<0.00046	<0.00055	<0.00021	<0.00042	<0.00039	<0.0015
SB-22-05	5	11/2/2007	<0.02	16	<0.00046	<0.00055	<0.00021	<0.00042	<0.00039	<0.0015
SB-22-10	10	11/2/2007	0.99	150	<0.00045	<0.00053	<0.00021	<0.00041	<0.00038	<0.0015
SB-22-15	15	11/2/2007	<0.02	<0.18	<0.00047	<0.00055	<0.00021	<0.00042	<0.0004	<0.0016
SB-23-03	3	11/2/2007	2.1	110	<0.00045	0.055	<0.0002	<0.00041	<0.00038	<0.0015
SB-23-05	5	11/2/2007	0.45	190	<0.00044	<0.00053	<0.0002	<0.0004	<0.00038	<0.0015
SB-23-10	10	11/2/2007	0.25	69	<0.00044	<0.00053	<0.0002	<0.0004	<0.00037	<0.0015
SB-23-15	15	11/2/2007	<0.02	<0.18	<0.00045	<0.00053	<0.00021	<0.00041	<0.00038	<0.0015
SB-24-03	3	11/2/2007	1.2	170	<0.091	<0.11	<0.042	<0.083	<0.077	<0.31
SB-24-05	5	11/2/2007	1.1	61	<0.00044	0.022	<0.0002	<0.0004	<0.00037	<0.0015
SB-24-10	10	11/2/2007	0.69	<0.18	<0.00046	<0.00054	<0.00021	<0.00042	<0.00039	<0.0015
SB-24-20	20	11/2/2007	<0.02	<0.18	<0.00045	<0.00054	<0.00021	<0.00041	<0.00038	<0.0015
SB-26-04	4	11/2/2007	380	5800	<8.9	<11	<4.1	<8.1	<7.6	<30
SB-26-10	10	11/2/2007	72	19	<0.093	<0.11	<0.043	<0.084	<0.079	<0.31
SB-26-15	15	11/2/2007	<0.02	<0.18	<0.00046	<0.00055	<0.00021	<0.00042	<0.00039	<0.0016

Table 1
Summary of Soil Sample Results - Organics
 AB&I Foundry
 7825 San Leandro Street
 Oakland, California

Sample ID	Depth	Date	TPHg	TPHd	MTBE	Chloroethane	Benzene	Ethylbenzene	Toluene	Xylenes, Total
Units	(feet)		(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
RWQCB ESLs	Residential		100	100	8.4	10	0.12	33	29	31
	Commercial		450	150	8.4	11	0.26	33	29	100
Former 10,000-Gallon Diesel UST										
SB-27-3	3	11/5/2007	NA	100	NA	NA	NA	NA	NA	NA
SB-27-5	5	11/5/2007	NA	6	NA	NA	NA	NA	NA	NA
SB-27-10	10	11/5/2007	NA	<0.18	NA	NA	NA	NA	NA	NA
SB-27-15	15	11/5/2007	NA	<0.18	NA	NA	NA	NA	NA	NA
SB-28-06	6	11/2/2007	<0.02	64	<0.00056	NA	<0.00028	<0.00028	<0.00019	<0.00056
SB-28-10	10	11/2/2007	<0.019	120	<0.00055	NA	<0.00027	<0.00027	<0.00018	<0.00055
SB-28-15	15	11/2/2007	<0.021	<0.18	NA	NA	<0.0003	<0.0003	<0.0002	<0.00059
SB-29-6	6	11/5/2007	NA	13	NA	NA	NA	NA	NA	NA
SB-29-10	10	11/5/2007	NA	<0.18	NA	NA	NA	NA	NA	NA
SB-29-15	15	11/5//2007	NA	<0.18	NA	NA	NA	NA	NA	NA
SB-28-20	20	11/2/2007	<0.02	<0.18	NA	NA	<0.00029	<0.00029	<0.00019	<0.00058

Notes:

- MTBE - Methyl tert butyl ether <0.005 - Not reported at or above laboratory's reporting limit of 0.005 mg/kg
- (mg/kg) - milligrams per kilogram UST - underground storage tank
- TPHg - Total Petroleum Hydrocarbons as Gasoline 1,1,1-TCA - 1,1,1-Trichloroethane
- TPHd - Total Petroleum Hydrocarbons as Diesel
- TPHg, BTEX, VOCs and fuel oxygenates analyzed using EPA Method 8260B by Test America Laboratories (TAL), Pleasanton, California
- TPHd analyzed using EPA Method 8015M with silica gel cleanup by TAL, Pleasanton, California
- RWQCB ESLs - Environmental Screening Levels taken from the California Regional Water Quality Control Board, San Francisco Bay Region document entitled "Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater," Interim Final November 2007, groundwater is not a current or potential source of drinking water.
- Concentrations in bold exceed commercial ESLs for shallow soil (less than 3 meters).

Table 2
Summary of Soil Sample Results - Metals
 AB&I Foundry
 7825 San Leandro Street
 Oakland, California

Sample ID	Depth	Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
Units	(feet)		(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
RWQCB ESLs	Residential		6.1	0.38	750	4	1.7	750	40	230	200	1	40	150	10	20	1.2	15	600
	Commercial		40	15	1500	8	7.4	750	80	230	750	1	40	150	10	40	15	190	600
Background			<10	42	410	1.1	5.6	120	25	63	57	0.5	<5	270	5.1	3	10	90	140
Former Three 10,000-Gallon USTs																			
SB-01-05	5	10/30/2007	<0.05	4.2	160	0.67	<0.0033	37	6.8	22	19	0.065	1.1	32	<0.11	<0.013	<0.072	31	44
SB-01-10	10	10/30/2007	<0.051	6.8	130	0.66	<0.0033	36	7.8	20	3.8	0.09	<0.042	34	<0.11	<0.013	<0.073	37	30
Former 550-Gallon Gasoline UST																			
SB-13-05	5	11/1/2007	<0.05	5.5	190	1.7	<0.0033	310	6.1	77	36	<0.00099	7.1	32	7.8	2.7	16	480	320
SB-13-10	10	11/1/2007	<0.05	4	140	0.5	<0.0032	37	11	21	4.6	0.056	<0.041	27	<0.1	<0.013	<0.071	40	32
Former 8,000-Gallon Mineral Spirits/ 1,1,1-TCA UST																			
SB-22-05	5	11/2/2007	<0.053	4.3	150	<0.0036	<0.0035	40	12	22	5	0.058	<0.044	30	<0.11	<0.014	<0.076	44	36
SB-22-10	10	11/2/2007	<0.05	14	180	0.59	<0.0032	48	18	42	130	0.11	2.6	42	<0.1	<0.013	<0.071	48	110
SB-24-20	20	11/2/2007	<0.047	2.6	300	<0.0032	<0.0031	35	13	23	5	<0.00096	<0.039	41	<0.099	<0.012	<0.068	30	37
SB-26-10	10	11/2/2007	<0.051	5.8	100	0.59	<0.0033	53	17	34	4.9	0.06	<0.042	67	<0.11	<0.013	<0.073	72	100
SB-26-15	15	11/2/2007	<0.05	2.2	120	0.54	<0.0032	35	7.9	18	4	0.053	<0.041	44	<0.1	<0.013	<0.071	31	35
SB-26-04	4	11/2/2007	3.1	13	19	<0.0034	<0.0033	130	10	240	28	<0.001	19	87	<0.11	<0.013	<0.073	35	57
Former 10,000-Gallon Diesel UST																			
SB-28-06	6	11/2/2007	2.4	3.9	330	0.68	3.4	31	3	60	970	0.11	3.6	15	<0.1	<0.013	<0.071	12	550
SB-28-10	10	11/2/2007	<0.053	10	130	<0.0035	<0.0034	11	5.4	21	110	0.51	<0.044	11	<0.11	<0.014	<0.075	22	120

Notes:
 (mg/kg) -milligrams per kilogram
 <0.0033 - Not reported at or above laboratory's reporting limit of 0.0033 mg/kg
 UST - underground storage tank
 1,1,1-TCA - 1,1,1-Trichloroethane
 -CAM 17 Metals analyzed using EPA Method 6010B/7471A by Test American Laboratories (TAL), Pleasanton, California
 RWQCB ESLs - Environmental Screening Levels taken from the California Regional Water Quality Control Board, San Francisco Bay Region document entitled "Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater," Interim Final November 2007, groundwater is not a current or potential source of drinking water.
 -Concentrations in bold exceed commercial ESLs for shallow soil (less than 3 meters).
 -Background data obtained from Lawrence Berkeley National Laboratory Environmental Restoration Program, Soil Management Plan, 2006.

Table 3
Summary of Analytical Results
Petroleum Hydrocarbon Related Constituents (µg/L)
 AB&I Foundry
 7825 San Leandro Street
 Oakland, California

Well Number	Date	TPH-Diesel	Naphthalene	TPH-Gasoline	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	ETBE	TAME	DIPE	TBA	1,2-DCA	
RWQCB ESLs¹		NA	11,000	NA	1,800	530,000	170,000	160,000	80,000	NA	NA	NA	NA	690	
MCLs²		NA	17*	NA	1.0	150	700	1,750	13	NA	NA	NA	NA	0.5	
MW-1	05/22/09		<0.50		<0.50	<0.50	<0.50	<1.0	--	--	--	--	--	<0.50	
	12/10/09	<50	<0.50	<50	<50	<50	<50	<10	--	--	--	--	--	<0.50	
	07/09/10	81	<0.50	<50	0.42 J	<0.50	<0.50	<1.0	--	--	--	--	--	<0.50	
MW-2R	05/22/09	<50	<0.50	110	<0.50	<0.50	<0.50	<1.0	--	--	--	--	--	<0.50	
	12/10/09	<50	<0.50	99	<0.50	<0.50	<0.50	<1.0	--	--	--	--	--	<0.50	
	07/09/10	<50	<0.50	210	<0.50	<0.50	<0.50	<1.0	--	--	--	--	--	<0.50	
MW-3	05/21/09	<0.050	<2.5	0.55	<2.5	1.8	<2.5	<5.0	--	--	--	--	--	<2.5	
	EAnB Injections														
	07/01/09		<2.5		<2.5	8.4	<2.5	<5.0	--	--	--	--	--	<2.5	
	08/07/09		<0.50		0.67	7.1	<0.50	<1.0	--	--	--	--	--	<0.50	
	09/10/09	--	<0.50	--	0.72	9.8	<0.50	<1.0	--	--	--	--	--	<0.50	
	12/09/09	<50	<0.50	51	0.51	2.6	<0.50	<1.0	--	--	--	--	--	<0.50	
	04/09/10	--	<0.50	--	0.41 J	1.4	<0.50	<1.0	--	--	--	--	--	<0.50	
	07/08/10	<50	<0.50	<50	0.36 J	<0.50	<0.50	<1.0	--	--	--	--	--	<0.50	
	12/22/10	<50	<0.50	<50	0.40 J	<0.50	<0.50	<1.0	--	--	--	--	--	<0.50	
MW-4	05/21/09	<50	<0.50	<50	<0.50	<0.50	<0.50	<1.0	--	--	--	--	--	<0.50	
	12/09/09	<50	<0.50	70	<0.50	<0.50	<0.50	<1.0	--	--	--	--	--	<0.50	
	07/08/10	<50	<0.50	110	<0.50	<0.50	<0.50	<1.0	--	--	--	--	--	<0.50	
MW-5	05/21/09	<50	<0.50	<50	<0.50	<0.50	<0.50	<1.0	--	--	--	--	--	<0.50	
	12/10/09	<50	<0.50	53	<0.50	<0.50	<0.50	<1.0	--	--	--	--	--	<0.50	
	07/09/10	<50	<0.50	120	<0.50	<0.50	<0.50	<1.0	--	--	--	--	--	<0.50	
MW-6	05/21/09	<50	<0.50	<50	<0.50	<0.50	<0.50	<10	--	--	--	--	--	<0.50	
	12/09/09	<50	<0.50	<50	<0.50	<0.50	<0.50	<1.0	--	--	--	--	--	<0.50	
	07/08/10	67	<0.50	<50	<0.50	<0.50	<0.50	<1.0	--	--	--	--	--	<0.50	
MW-7	05/22/09	<50	<0.50	<50	<0.50	<0.50	<0.50	<1.0	--	--	--	--	--	<0.50	
	12/10/09	<50	<0.50	<50	<0.50	<0.50	<0.50	<1.0	--	--	--	--	--	<0.50	
	07/09/10	<50	<0.50	<50	<0.50	<0.50	<0.50	<1.0	--	--	--	--	--	<0.50	

Table 3
Summary of Analytical Results
Petroleum Hydrocarbon Related Constituents (µg/L)
 AB&I Foundry
 7825 San Leandro Street
 Oakland, California

Well Number	Date	TPH-Diesel	Naphthalene	TPH-Gasoline	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	ETBE	TAME	DIPE	TBA	1,2-DCA	
RWQCB ESLs ¹		NA	11,000	NA	1,800	530,000	170,000	160,000	80,000	NA	NA	NA	NA	690	
MCLs ²		NA	17*	NA	1.0	150	700	1,750	13	NA	NA	NA	NA	0.5	
MW-8 Dup	05/21/09	<50	<5.0	2.1	2.9	<5.0	<5.0	<10	--	--	--	--	--	<5.0	
	05/21/09	<50	<5.0	2.1	2.8	<5.0	<5.0	<10	--	--	--	--	--	<5.0	
	EAnB Injections														
	07/01/09		<2.5		2.6	<2.5	<2.5	<5.0	--	--	--	--	--	<2.5	
	08/07/09		<5.0		3.2	<5.0	<5.0	<10	--	--	--	--	--	<5.0	
	09/10/09	--	<2.5	--	3.4	<2.5	<2.5	<5.0	--	--	--	--	--	<2.5	
	12/09/09	<50	<2.5	180	3.0	<2.5	<2.5	<5.0	--	--	--	--	--	1.8	
	Dup	12/09/09	<50	<5.0	190	2.8	<5.0	<5.0	<10	--	--	--	--	--	<5.0
		04/09/10	--	<2.5	--	2.4 J	<2.5	<2.5	<5.0	--	--	--	--	--	1.0 J
		07/08/10	110	<2.5	140	2.4 J	<2.5	<2.5	<5.0	--	--	--	--	--	<2.5
Dup	07/08/10	74	<2.5	140	2.2 J	<2.5	<2.5	<5.0	--	--	--	--	--	<2.5	
	12/22/10	120	<0.50	<50	0.43 J	<0.50	<0.50	<1.0	--	--	--	--	--	<0.50	
	EAB Injections														
MW-9	05/22/09	250	2.2	3,500	180	2.9	3.9	1.7	--	--	--	--	--	<0.50	
	EAB Injections														
	07/01/09	470	3.3	3,400	53	2.0	9.5	0.28	--	--	--	--	--	<0.50	
	08/07/09	340	0.82	2,400	9.1	0.5	2.2	1.5	--	--	--	--	--	<0.50	
	09/10/09	460	0.87	3,100	5.7	0.36	1.4	1.7	--	--	--	--	--	<0.50	
	12/09/09	150	1.3	2,700	36	0.87	2.7	1.1	--	--	--	--	--	<0.50	
	04/09/10	320	1.2	3,300	66	1.3	4.6	1.1	--	--	--	--	--	<0.50	
	07/09/10	250	0.77	2,700	100	2.30	9.2	1.6	--	--	--	--	--	<0.50	
12/22/10	120	0.75	2,200	77	1.80	9.1	1.4	--	--	--	--	--	<0.50		

Notes:

Value in bold exceed the MCL

Shaded values exceed the ESL for vapor intrusion

* California Department of Health Drinking Water Program, Drinking Water Notification Level, December 14, 2007

- MCL = California EPA Department of Health Service Maximum concentration levels for drinking water
- RWQCB ESLs (VI) = Regional Water Quality Control Board Environmental Screening Levels based on vapor intrusion concerns for commercial land use scenario.
- ug/L = All concentrations reported in micrograms per liter (ug/L).
- TPH = Total Petroleum Hydrocarbons
- MTBE = methyl tert butyl ether
- ETBE = ethyl tert butyl ether
- TAME = tert-amyl methyl ether
- DIPE = diisopropyl ether
- TBA = tributyl alcohol
- DCA = dichloroethane
- ND = Not detected at or above laboratory reporting limit.
- <50 = Not detected at or above laboratory reporting limit of 50 ug/L.
- NS = Not sampled.
- = Not analyzed.
- *500 = Reported due to the presence of discrete peaks
- J = analyte detected below quantitation limits

Table 4
Summary of Analytical Results
Volatile Organic Compounds (ug/L)
 AB&I Foundry
 7825 San Leandro Street
 Oakland, California

Well Number	Date	Bromoform	Chlorodibromomethane	Chloroethane	1,1-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1,1 Trichloroethane	Vinyl Chloride	Isopropylbenzene	n-Propylbenzene
RWQCB ESLs¹		NA	NA	2,700	3,400	1,800	17,000	19,000	360,000	13	NE	NE
MCLs²		NA	NA	NE	5.0	6.0	6.0	10	200	0.5	770*	260*
MW-1	05/22/09	<0.50	--	<0.50	0.41	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/10/09	<0.50	--	<0.50	0.41	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	07/09/10	<0.50	--	<0.50	0.43 J	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
MW-2R	05/22/09	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/10/09	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	07/09/10	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
MW-3	05/21/09	<2.5	--	<2.5	220	1,000	10	1.2	<2.5	8.4	<2.5	<2.5
	EAnB Injections											
	07/01/09	<2.5	--	<2.5	160	620	7.5	<2.5	<2.5	6.7	<2.5	<2.5
	08/07/09	<0.50	--	61	110	94	1.2	<0.50	<0.50	29	<0.50	<0.50
	09/10/09	<0.50	--	150	5.6	11	0.20	0.47	<0.50	3.6	<0.50	<0.50
	12/09/09	<0.50	--	78	16	6.4	0.25	0.37	<0.50	17	<0.50	<0.50
	04/09/10	<0.50	--	47	0.78	0.74	<0.50	0.29 J	<0.50	1.4	<0.50	<0.50
	07/08/10	<0.50	--	39	0.58	1.0	<0.50	0.27 J	<0.50	1.1	<0.50	<0.50
	12/22/10	--	--	3.6	0.29 J	0.8	<0.50	<0.50	<0.50	0.97	<0.50	<0.50
MW-4	05/21/09	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/09/09	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	07/08/10	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
MW-5	05/21/09	<0.50	--	<0.50	0.7	0.71	3.3	1.1	<0.50	<0.50	<0.50	<0.50
	12/10/09	<0.50	--	<0.50	0.58	0.63	2.2	0.67	<0.50	<0.50	<0.50	<0.50
	07/09/10	<0.50	--	<0.50	0.40	0.38	3.4	1.0	<0.50	<0.50	<0.50	<0.50
MW-6	05/21/09	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/09/09	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	07/08/10	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

Table 4
Summary of Analytical Results
Volatile Organic Compounds (ug/L)
 AB&I Foundry
 7825 San Leandro Street
 Oakland, California

Well Number	Date	Bromoform	Chlorodibromomethane	Chloroethane	1,1-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1,1 Trichloroethane	Vinyl Chloride	Isopropylbenzene	n-Propylbenzene
RWQCB ESLs ¹		NA	NA	2,700	3,400	1,800	17,000	19,000	360,000	13	NE	NE
MCLs ²		NA	NA	NE	5.0	6.0	6.0	10	200	0.5	770*	260*
MW-7	05/22/09	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/10/09	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	07/09/10	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
MW-8	05/21/09	<5.0	--	320	1,500	1,900	<5.0	<5.0	1,900	16	5.3	<5.0
	EAnB Injections											
	07/01/09	<2.5	--	350	1,200	1,100	<2.5	<2.5	960	11	<2.5	<2.5
	08/07/09	<5.0	--	370	1,600	1,300	<5.0	<5.0	1,700	9.6	<5.0	<5.0
	09/10/09	<2.5	--	340	2,600	1,100	<2.5	<2.5	45	50	4.0	<2.5
	12/09/09	<2.5	--	2,400	94	58	<2.5	<2.5	14	85	4.1	<2.5
	12/09/09	<5.0	--	2,400	92	60	<5.0	<5.0	14	82	<5.0	<5.0
	04/09/10	<2.5	--	1,400	32	2.3 J	<2.5	<2.5	<2.5	2.2 J	2.4 J	<2.5
	07/08/10	<2.5	--	1,300	15	2.5	<2.5	<2.5	<2.5	2.2 J	2.8	<2.5
	Dup	07/08/10	<2.5	--	1,200	18	4.5	<2.5	<2.5	<2.5	2.9	2.7
	12/22/10	--	--	91	<0.50	0.76	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
MW-9	05/22/09	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	21	26
	EAB Injections											
	07/01/09	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	34	44
	08/07/09	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	8.8	9.9
	09/10/09	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	4.0	3.8
	12/09/09	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	5.5	1.3
	04/09/10	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	5.9	5.5
	07/09/10	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	10.0	9.5
	12/22/10	--	--	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	12.0	12

Notes:

Value in bold exceed the MCL

* California Department of Health Drinking Water Program, Drinking Water Notification Level, December 14, 2007

Shaded values exceed the ESL for vapor intrusion

- MCL = California EPA Department of Health Service Maximum concentration levels for drinking water
- RWQCB ESLs (VI) = Regional Water Quality Control Board Environmental Screening Levels based on vapor intrusion concerns for commercial land use scenario.
- ug/L = All concentrations reported in micrograms per liter (ug/L)
- ND = Not detected at or above laboratory reporting limit.
- <5.0 = Not detected at or above laboratory reporting limit of 5.0 ug/L.
- NS = Not sampled.
- = Not analyzed.
- J = analyte detected below quantitation limits