ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
ALEX BRISCOE, Director

ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

November 29, 2011

Mr. Mike Olvera
AB&I Foundry
7825 San Leandro Street
Oakland, CA 94621-2598
(Sent via E-mail to: Mike.Olvera@abifoundry.com)

Mr. Kurt Winter
Nine Plus LLC
c/oAB&I Foundry
7825 San Leandro Street
Oakland, CA 94621-2598
(Sent via E-mail to: Kurt.Winter@abifoundry.com)

McWane, Inc.
c/o Mike Olvera
AB&I Foundry
7825 San Leandro Street
Oakland, CA 94621-2598

Subject: Case Closure for Fuel Leak Case No. RO0000092 and GeoTracker Global ID T0600100065, American Brass & Iron Foundry, 7825 San Leandro Street, Oakland, CA 94621

Dear Mr. Olvera and Mr. Winter:

This letter transmits the enclosed underground storage tank (UST) case closure letter in accordance with Chapter 6.75 (Article 4, Section 25299.37[h]). The State Water Resources Control Board adopted this letter on February 20, 1997. As of March 1, 1997, the Alameda County Environmental Health (ACEH) is required to use this case closure letter for all UST leak sites. We are also transmitting to you the enclosed case closure summary. These documents confirm the completion of the investigation and cleanup of the reported release at the subject site. The subject fuel leak case is closed. This case closure letter and the case closure summary can also be viewed on the State Water Resources Control Board's Geotracker website (http://geotracker.swrcb.ca.gov) and the Alameda County Environmental Health website (http://www.acgov.org/aceh/index.htm).

SITE INVESTIGATION AND CLEANUP SUMMARY

Please be advised that the following conditions exist at the site:

- Total Petroleum Hydrocarbons as diesel remain in soil at concentrations up to 5,800 ppm.
- Total Petroleum Hydrocarbons as gasoline remain in groundwater at concentrations up to 2,200 ppb.
- Vinyl chloride remains in groundwater at concentrations up to 0 97 ppb.
- Due to the residual contamination, a Covenant and Environmental Restriction was recorded for the site on September 22, 2011 The Covenant and Environmental Restriction limits future land use to the current industrial land use only. No excavation is to be conducted on the site unless expressly permitted in writing by ACEH.
- The restrictions on this site are to be entered into the City Of Oakland Permit Tracking System due to the residual contamination on the site.

If you have any questions, please call Jerry Wickham at (510) 567-6791 Thank you.

Sincerely,

Donna L. Drogos, P.E.
Division Chief

Enclosures:
1. Remedial Action Completion Certification
2. Case Closure Summary

cc:

Leroy Griffin (w/enc)
Oakland Fire Department
250 Frank H. Ogawa Plaza, Ste. 3341
Oakland, CA 94612-2032
(Sent via E-mail to: lgriffin@oaklandnet.com)

Dave Robinson
AB&I Foundry
7825 San Leandro Street
Oakland, CA 94621-2598
(Sent via E-mail to: Dave.Robinson@abifoundry.com)

Closure Unit (submitted to GeoTracker)
State Water Resources Control Board
UST Cleanup Fund
P.O. Box 944212
Sacramento, CA 94244-2120

Kent Reynolds
The Source Group, Inc.
3451-C Vincent Road
Pleasant Hill, CA 94523
(Sent via E-mail to: kreynolds@thesourcegroup.net)

Donna Drogos, ACEH *(Sent via E-mail to: donna.drogos@acgov.org)*
Jerry Wickham, ACEH *(Sent via E-mail to: jerry.wickham@acgov.org)*

GeoTracker (w/enc)
eFile (w/orig enc)

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REMEDIAL ACTION COMPLETION CERTIFICATION

November 29, 2011

Mr. Mike Olvera
AB&I Foundry
7825 San Leandro Street
Oakland, CA 94621-2598
(*Sent via E-mail to: Mike.Olvera@abifoundry.com*)

Mr. Kurt Winter
Nine Plus LLC
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7825 San Leandro Street
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Subject: Case Closure for Fuel Leak Case No. RO0000092 and GeoTracker Global ID T0600100065, American Brass & Iron Foundry, 7825 San Leandro Street, Oakland, CA 94621

Dear Mr. Olvera and Mr. Winter:

This letter confirms the completion of a site investigation and remedial action for the underground storage tanks formerly located at the above-described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tank(s) are greatly appreciated.

Based on information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, this agency finds that the site investigation and corrective action carried out at your underground storage tank(s) site is in compliance with the requirements of subdivisions (a) and (b) of Section 25296.10 of the Health and Safety Code and with corrective action regulations adopted pursuant to Section 25299.3 of the Health and Safety Code and that no further action related to the petroleum release(s) at the site is required.

This notice is issued pursuant to subdivision (h) of Section 25296.10 of the Health and Safety Code. Please contact our office if you have any questions regarding this matter.

Sincerely,

Ariu Levi
Director
Alameda County Environmental Health

CASE CLOSURE SUMMARY
LEAKING UNDERGROUND FUEL STORAGE TANK - LOCAL OVERSIGHT PROGRAM

I. AGENCY INFORMATION

Date: July 20, 2011

Agency Name: Alameda County Environmental Health	Address: 1131 Harbor Bay Parkway
City/State/Zip: Alameda, CA 94502-6577	Phone: (510) 567-6791
Responsible Staff Person: Mr. Jerry Wickham	Title: Senior Hazardous Materials Specialist

II. CASE INFORMATION

Site Facility Name: American Brass & Iron Foundry		
Site Facility Address: 7825 San Leandro Street, Oakland, California 94621		
RB Case No.: 01-0071	STID No.: 523	LOP Case No.: RO0000092
URF Filing Dates: 05/29/1992	GeoTracker ID: T0600100065	APN: 41-4209-1-1, 41-4209-3-2, 41-4209-8-1, 41-4209-1-2

Responsible Parties	Addresses	Phone Numbers
AB&I Foundry, c/o Mike Olvera	7825 San Leandro Street, Oakland, CA 94621-2515	(800) 468-4766
Nine Plus LLC, Kurt Winter c/o AB&I Foundry	7825 San Leandro Street, Oakland, CA 94621-2515	(800) 468-4766
McWane, Inc., c/o Mike Olvera, AB&I Foundry	7825 San Leandro Street, Oakland, CA 94621-2515	(800) 468-4766

Tank I.D. No	Size in Gallons	Contents	Closed In Place/Removed?	Date
1 thru 3	10,000-gallons	Gasoline	Removed	Circa 1982/1983
4	8,000-gallons	Unleaded Gasoline	Removed	8/8/1991
5	550-gallons	Leaded Gasoline	Removed	8/26/1991
6	8,000-gallons	Mineral Spirits and 1,1,1-trichloroethane	Removed	10/4/1991
7	12,000-gallons	Diesel Fuel	Removed	6/3/1992
Piping			Removed	—

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and Type of Release: Unknown. During removal, the tanks appeared to be intact with no holes, cracks, or other signs of obvious failure.		
Site characterization complete? Yes	Date Approved By Oversight Agency: ---	
Monitoring wells installed? Yes	Number: 10	Proper screened interval? Yes
Highest GW Depth Below Ground Surface: 3.5 feet bgs	Lowest Depth: 8.7 feet bgs	Flow Direction: Northwest
Most Sensitive Current Use: Potential drinking water source.		

Summary of Production Wells in Vicinity: The nearest water supply well is an on-site industrial water supply well located along the southwest perimeter of the Site (2S/3W/16R 01). The well is used by AB&I Foundry as a source for process (cooling) water for plant operations in conjunction with East Bay Municipal District (EBMUD) water. The well is 495 feet deep and is completed from 176 to 495 feet bgs. In 1993, approximately 362,752 gallons per day (gpd) of well water and 12,000 gpd of EBMUD water was used for plant operations. Current well water use is approximately 15,000 gpd. The on-site water supply well is sampled periodically for the Groundwater Ambient Monitoring and Assessment (GAMA) program implemented by the State Water Resource Control Board in coordination with the U.S. Geological Survey and Lawrence Livermore National Laboratory. Groundwater samples collected from the on-site water supply well in June 2007 contained low concentrations (<2 ppb) of PCE, TCE, and cis-1,2-DCE. In 2008, grab groundwater samples were collected from depths of approximately 40 to 52 feet bgs to help evaluate whether shallow groundwater encountered in the water-bearing zone less than 40 feet bgs was affecting deeper groundwater below 40 feet bgs. The deeper grab groundwater samples contained TPHg, TPHd, 1,2-DCA, TCE, cis-1,2-DCE, and vinyl chloride at concentrations below Environmental Screening Levels for current or potential drinking water. Each of these chemicals with the exception of 1,2-DCA has been detected in shallow groundwater beneath the site. Therefore, it is possible that chemicals released to shallow groundwater from the USTs have migrated downward and affected deeper groundwater at the site. However, the grab groundwater sample collected at a depth of approximately 52 feet bgs from deeper groundwater closest to the water supply well contained 1,2-DCA at a concentration of 2.2 ppb but did not contain other VOCs at concentrations above reporting limits. 1,2-DCA has not been detected in shallow groundwater in the areas of the former USTs and may be related to a regional source rather than a site source. Groundwater monitoring data collected to date indicate that VOCs released from the USTs may have migrated to deeper groundwater at low concentrations below ESLs for drinking water. These VOCs potentially may reach the on-site water supply well at de minimis concentrations. Based on the current data and expected continued decreases in VOC concentrations in groundwater expected following remediation, the on-site water supply well is not expected to be significantly impacted by releases from USTs at the Site.

A shallow well (26 feet deep) of unknown use is located approximately 200 feet north of the site at 800 77th Avenue. Based on the distance and cross gradient location from the site, the unknown well at 800 77th Avenue is not expected to be a receptor for the site. Three wells of unknown use are located approximately 1,200 feet northwest of the site at Aero Quality Plating. Based on the distance of the three wells from the site, the Aero Quality Plating wells are not expected to be receptors for the site.

The Fitchburg well group, which historically consisted of about 20 municipal supply wells, was apparently located more than approximately 500 feet southwest of the site. The precise locations and the methods used for decommissioning the Fitchburg group are unknown. Several observation wells are located at the Coliseum, approximately 1,800 to 2,200 feet west to northwest of the site. Based on the distance from the site, the Coliseum observation wells are not expected to be receptors for the site

Are drinking water wells affected? No	Aquifer Name. East Bay Plain
Is surface water affected? No	Nearest SW Name: Elmhurst Creek is located along the southeast corner of the property and is approximately 350 feet southwest of the nearest UST.
Off-Site Beneficial Use Impacts (Addresses/Locations): None	
Reports on file? Yes	Where are reports filed? Alameda County Environmental Health and Oakland Fire Department

TREATMENT AND DISPOSAL OF AFFECTED MATERIAL

Material	Amount (Include Units)	Action (Treatment or Disposal w/Destination)	Date
Tank	Three 10,000-gallon gasoline USTs	The treatment or disposal of the USTs was not reported.	Circa 1982/1983
	8,000-gallon gasoline UST	Transported to H&H Ship Service Company in San Francisco, CA for disposal	8/8/1991
	550-gallon gasoline UST	Transported to H&H Ship Service Company in San Francisco, CA for disposal	8/26/1991
	8,000-gallon solvent UST	Transported to Erickson, Inc. in Richmond, CA for disposal	10/4/1991
	12,000-gallon diesel UST	Transported to H&H Ship Service Company in San Francisco, CA for disposal	6/3/1992
Piping	Not reported	Transported to H&H Ship Service Company in San Francisco, CA for disposal	Various
Free Product	—	—	—
Soil	15-25 cubic yards	Gasoline-affected soil removed from the 8,000-gallon gasoline tank (#4) excavation was spread on a concrete pad at the site for aeration. After sampling, the soil used for backfill for the 550-gallon gasoline tank pit in another area of the site.	9/1991
Soil	40-60 cubic yards	Gasoline-affected soil removed from the 550-gallon gasoline tank (#5) excavation was spread on a concrete pad at the site for aeration. After sampling, the soil used for backfill for the 8,000-gallon solvent tank pit in another area of the site.	9/1991
Soil	180 cubic yards	Solvent-affected soil removed from the tank excavation was spread on a concrete pad at the site for aeration. After sampling, the soil was reportedly used off-site for fill at an "R&A Trucking Project.".	10/1991
Soil	180 cubic yards	Excavated soil was stockpiled inside a covered building. The soil reportedly underwent a biological treatment by BioConverters, Inc. until the concentrations were less than 1,000 ppm. The soil was then sent to the BFI Vasco Road Landfill for disposal. .	6/1992
Groundwater	—	—	—

MAXIMUM DOCUMENTED CONTAMINANT CONCENTRATIONS BEFORE AND AFTER CLEANUP
(Please see Attachments 2 – 6 for additional information on contaminant locations and concentrations)

Contaminant	Soil (ppm)		Groundwater (ppb)	
	Before	After	Before	After
TPH (Gas)	2,000	1,400	19,000(1)	2,200(1)
TPH (Diesel)	5,800	5,800	37,000(2)	120(2)
Oil & Grease	3,500	3,500	2,000	2,000
Benzene	6.6	<1	250(3)	77(3)
Toluene	8	1.5	11(3)	1.8(3)
Ethylbenzene	15	27	51(3)	9.1(3)
Xylenes	81	62	14(3)	1.4(3)
Heavy Metals (Cd, Cr, Pb, Ni, Zn)	970(4)	970(4)	Not Analyzed	Not Analyzed
MTBE	<0.005(5)	<0.0005(5)	11(6)	11(6)
1,1,1-Trichloroethane	1.3	<0.25	2,700	<0.05
1,1-Dichloroethane	0.5	<0.25	2,600	0.29
1,1-Dichloroethene	<0.25	<0.25	3,200	0.8
Vinyl Chloride	<0.25	<0.25	50	0.97
Other (8270)	2,100(7)	2,100(7)	2.5(8)	2.5(8)

Footnotes:

(1) The maximum concentration before cleanup is from a grab groundwater sample collected from boring SB-08 at 17 feet bgs on October 31, 2007; the maximum concentration after cleanup is the maximum concentration detected during the most recent sampling event on 12/22/2010.
(2) The maximum concentration before cleanup is from a grab groundwater sample collected from boring SB-26 at 10 feet bgs on November 2, 2007; the maximum concentration after cleanup is the maximum concentration detected during the most recent sampling event on 12/22/2010.
(3) The maximum concentration before cleanup is from a groundwater sample collected from well MW-9 on August 6, 2006; the maximum concentration after cleanup is the maximum concentration detected during the most recent sampling event on 12/22/2010.
(4) Lead = 970 ppm; cadmium = 3.4 ppm; chromium = 310 ppm; nickel = 87 ppm; and zinc = 550 ppm.
(5) MTBE, EDB, and EDC <0.0005 ppm; TAME, ETBE, DIPE, and TBA not analyzed.
(6) MTBE = 11 ppb; TBA = 15 ppb; TAME, ETBE, DIPE, EDB, and EDC not detected at various reporting limits.
(7) Napthalene = 2,100 ppm; acenapthalene = 1,300 ppm; benzo(a)pyrene = 960 ppm in tar-like substance encountered in boring SB-26.
(8) Napthalene = 2.5 ppb; no other PAHs detected above various reporting limits.

Site History and Description of Corrective Actions:

The site, which contains various warehouses, manufacturing, and office buildings, is an approximately 11.8 acres industrial facility in Oakland, CA. Site activities include the manufacture of pipe and fittings. AB&I has been operating at the facility since at least 1930. Surrounding land use is mixed commercial and industrial.

Three gasoline underground storage tanks (USTs) were removed from the site circa 1982 to 1983. No reports are available to document the removal of the three USTs. Mr. Dave Robinson indicated that based on interviews with Mr. Frank Cole (former AB&I employee) the USTs were part of a service station operated by the Olympic Oil Company and included two fuel dispensers and three 10,000-gallon gasoline USTs. In 1972, AB&I purchased the property containing the service station. In 1977, the two fueling dispenser islands were removed and replaced by a single dispenser. All three USTs and the dispenser were reportedly removed by AB&I circa 1982/1983 (no longer depicted in a 1983 aerial photograph). The final disposition of the tanks is unknown. Mr. Frank Cole indicated that based on his recollection, the excavation was backfilled using soil generated from the removal of the USTs and imported soil. No confirmatory or UST closure samples were known to have been collected.

Between August 1991 and June 1992, four USTs (8,000-gallon gasoline, 550-gallon gasoline, 8,000-gallon solvent, and 10,000-gallon diesel) were removed from four separate areas of the site. Limited overexcavation was apparently conducted during the removals. Between August 5 and 8, 1991, an 8,000-gallon gasoline UST and associated piping were removed. Approximately 20 cubic yards of soil was removed from the tank pit. On August 26, 1991, a 550-gallon UST and associated piping were removed. Residual contamination along the west and south sides of the tank pit could not be removed by excavation due to the presence of underground utilities and foundations.

On October 4, 1991, an 8,000-gallon solvent UST was removed. The UST was used for storage of mineral spirits and later 1,1,1-trichloroethane (TCA). The excavation was extended 4-6 feet from the sides of the tank pit to remove approximately 180 cubic yards of contaminated soil. A tar-like substance was observed at a depth of 3.5 feet bgs along the northern side of the excavation. The tar-like substance was removed from portions of the northeast corner and northernmost area but due to difficulties in removing the concrete surface structures, excavation of the tar-like substance was terminated.

On June 3, 1992, a 10,000-gallon diesel UST was removed from the southern portion of the site. Approximately 180 cubic yards of soil was removed during the excavation. The excavation was stopped due to difficulty in removing a concrete surface slab.

Following the UST removals, four groundwater monitoring wells (MW-1 through MW-4) were installed on February 17 and 18, 1993, adjacent to each of the four former USTs (within 10 feet of the tank excavations). One shallow soil boring was to have been angled beneath the office building adjacent to the former 550-gallon gasoline UST to assess potential contamination beneath the building foundation; however, the boring could not be advanced due to overheard power lines. Elevated concentrations of petroleum hydrocarbons were reported in soil and groundwater samples from wells MW-1, MW-2, and MW-4.

Quarterly sampling of the four monitoring wells was conducted from 1993 to 1997. No investigations other than groundwater sampling appear to have taken place between 1993 and 2006.

In July 2006, a soil and groundwater assessment was conducted as part of a property transfer. Monitoring well MW-2 was found to be damaged and was replaced by well MW-2R. Five additional groundwater monitoring wells (MW-5 through MW-9) were installed between August 12 and 18, 2006.

On November 2, 2007, soil gas samples were collected from 10 locations to assess potential vapor intrusion to indoor air.

A total of 37 soil borings were advanced in November 2007 to address data gaps and define the source and extent of TPH and VOC-affected soil and groundwater. Six additional borings were advanced in the parking lot area along the eastern boundary of the site to assess the lateral extent of VOC-affected groundwater. TPHg, TPHd, BTEX, MTBE, TBA, and chlorinated VOCs were detected in groundwater beneath the site. Groundwater monitoring was continued in 2008.

On July 7, 2008, ten soil gas samples were collected at five locations to assess the potential for vapor intrusion to the office building adjacent to the 550-galon gasoline UST area. Tetrachloroethene (PCE) and vinyl chloride were detected in soil gas at maximum concentrations of 3.7 and 2.1 microgram per liter, respectively. The concentrations of PCE and vinyl chloride in soil gas exceeded the environmental screening level (ESL) under a commercial land use scenario. The detections of PCE and vinyl chloride did not appear to correlate to areas of PCE and vinyl chloride in groundwater and were interpreted to be related to surface spills.

Site History and Description of Corrective Actions (*continued*):

Between July 8 and 12, 2008, 14 soil borings (SB-38 through SB-42 and SB-44 through SGI-52) were advanced. The soil borings were originally planned to be advanced to a depth of approximately 50 feet bgs; however, refusal and heaving sands were encountered in eleven of the borings (SB-38 through SB-48). To address the refusal and heaving sands issues, four borings (SB-49 through SB-52) were advanced using a direct push electrical conductivity probe. A total of six soil samples were collected from the borings. Nine grab groundwater samples were collected at seven locations to assess the vertical extent of TPH and VOC-impacted shallow and deep groundwater and to evaluate the potential for contaminated groundwater to impact the water supply well located on-site. TPHg, TPHd, 1,2-DCA, TCE, cis-1,2-DCE, and vinyl chloride were detected in deep groundwater underlying the site. Of these compounds, TPHg, TPHd, TCE, cis-1,2-DCE, and vinyl chloride were also detected in shallow groundwater. Based on the detection of contaminants in both shallow and deep groundwater, shallow contamination may be affecting deep groundwater. However, the presence of 1,2-DCA in deep groundwater but absence of 1,2-DCA in shallow groundwater was interpreted as a possible off-site source. None of the concentrations of TPH and VOCs exceeded drinking water ESLs.

On March 13, 2009, three soil gas samples (SG-17 through SG-19) were collected in the area of the employee training classroom, locker room, and lunchroom. PCE and benzene were the only compounds detected. PCE was detected at a concentration of 3.1 µg/L in sample SG-19 collected in the area of the lunchroom, which exceeds the ESL for indoor air vapor intrusion under the commercial land use scenario of 1.4 µg/L. A site-specific risk assessment for PCE in SG-19 estimated an excess cancer risk of 9 x 10-06, which is within range of 10-04 to 10-06, where the need for active remediation or risk management is evaluated on a site-specific basis. Based on the isolated detection beneath the lunchroom, the conservatism of the exposure assumptions used in the risk assessment in comparison to occupancy of the lunchroom, and the presence of a 12-inch thick concrete slab beneath the lunchroom, soil vapor beneath the lunchroom, active remediation does not appear to be warranted.

In June 2009, an enhanced aerobic biodegradation pilot study was conducted in the area of three former 10,000-gallon USTs to promote the breakdown of petroleum hydrocarbons through the addition of Oxygen Releasing Compound® (ORC) and Regenox®. A total of 1,200 pounds of ORC was injected in nine locations in the three former 10,000-gallon USTs. Groundwater monitoring data collected from June 2009 through December 2010 indicate that injection activities were initially effective in raising dissolved oxygen levels and reducing benzene and toluene concentrations but some rebound has occurred. However, TPHg and TPHd concentrations remained relatively stable.

An enhanced anaerobic biodegradation pilot study was conducted in the parking lot area to promote the breakdown of chlorinated VOCs via reductive dechlorination through addition of EOS®, which is a food-grade vegetable oil that serves as a slow-release carbon source. A total of 5,745 gallons of EOS® was injected into 15 locations in June 2009. Groundwater monitoring since June 2009 indicate generally stable to declining concentrations. Significant decreases in chemical concentrations have taken place in the areas of wells MW-3 and MW-8.

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? Yes		
Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? Yes		
Does corrective action protect public health for current land use? Alameda County Environmental Health staff does not make specific determinations concerning public health risk. However, based upon the information available in our files to date, it does not appear that the release would present a risk to human health based upon current land use and conditions.		
Site Management Requirements: Case closure for the fuel leak site is granted for the current industrial land use only. This closure applies only to the former UST systems described in Sections II and III. Restrictions on future land use are described in the "Covenant and Environmental Restriction on Property" that is included as an attachment to this Case Closure Summary. This site is to be entered into the City of Oakland Permit Tracking System due to the residual contamination on site.		
Should corrective action be reviewed if land use changes? Yes		
Was a deed restriction or deed notification filed? Yes		Date Recorded:
Monitoring Wells Decommissioned: No	Number Decommissioned: 1 (MW-2)	Number Retained: 9
List Enforcement Actions Taken: None		
List Enforcement Actions Rescinded: ---		

V. ADDITIONAL COMMENTS, DATA, ETC.

Considerations and/or Variances:

This case closure only addresses unauthorized releases from the seven former USTs identified in Sections I and IV. Other environmental conditions that may exist at the site but are not related to the releases from the former USTs have not been evaluated as part of this case closure. These conditions include the detection of elevated concentrations of metals in soil samples collected from 3 of the 5 monitoring well borings advanced in August 2006. With the exception of well MW-9, these wells are not located in close proximity to the former USTs. The elevated concentrations of metals do not appear to be related to releases from the former USTs.

During removal of the 8,000-gallon 1,1,1-TCA UST, a 2 to 3-inch thick layer of a tar-like substance was encountered at a depth of approximately 3.5 feet in the northern end of the excavation. Although much of the tar-like substance was removed from the tank pit, excavation was aborted prior to full removal of the layer due to difficulty in removing a concrete surface structure. The tar-like substance appears to be unrelated to releases from the solvent tank.

The highest concentrations of 1,1,1-TCA and vinyl chloride in groundwater at the site have been detected in well MW-8, which is located approximately 150 feet west of the former mineral spirits/1,1,1-TCA tank. 1,1,1-TCA concentrations in groundwater samples collected in the area of the former solvent tank have typically been lower than concentrations measured in groundwater from well MW-8. Although, the source of 1,1,1-TCA in well MW-8 appears to be the former mineral spirits/1,1,1-TCA tank, it is possible that an unidentified secondary source of solvents could exist in the area of MW-8.

A soil vapor sample (SG-19) collected from a depth of 1.5 feet bgs beneath the lunchroom contained 3.0 µg/L of PCE. A site-specific risk assessment for PCE in SG-19 estimated an excess cancer risk of 9 x 10-06, which is within range of 10-04 to 10-06, where the need for active remediation or risk management is evaluated on a site-specific basis. Based on the isolated detection beneath the lunchroom, the conservatism of the exposure assumptions used in the risk assessment in comparison to occupancy of the lunchroom, and the presence of a 12-inch thick concrete slab beneath the lunchroom, soil vapor beneath the lunchroom, active remediation does not appear to be warranted.

Vinyl chloride was detected in soil vapor from two locations in the office building (SG-12 and SG-16B) at concentrations exceeding the ESL for vapor intrusion to indoor air. A sub-slab soil vapor sample collected from a depth of 0.5 feet bgs did not contain vinyl chloride at a concentration greater than the reporting limit of 0.05 µg/L. The south-facing side of the ground floor to the office building where SG-12 and SG-16B are located is open to the outside environment. The detections of PCE and vinyl chloride in soil vapor samples from SG-12 and SG-16B were presumed to be related to isolated surface spills and not releases from the UST systems.

Conclusion:

Alameda County Environmental Health staff believe that the levels of residual contamination do not pose a significant threat to water resources, public health and safety, and the environment under the current commercial land use based upon the information available in our files to date. No further investigation or cleanup for the fuel leak case is necessary unless a change in land use to any residential or other conservative land use scenario occurs at the site. ACEH staff recommend closure for this site.

VI. LOCAL AGENCY REPRESENTATIVE DATA

Prepared by: Jerry Wickham	Title: Senior Hazardous Materials Specialist
Signature:	Date: 07/20/11
Approved by: Donna L. Drogos, P.E.	Title: Chief
Signature:	Date: 07/20/11

This closure approval is based upon the available information and with the provision that the information provided to this agency was accurate and representative of site conditions.

VII. REGIONAL BOARD NOTIFICATION

Regional Board Staff Name: Cherie McCaulou	Title: Engineering Geologist
Notification Date: 08/09/11	

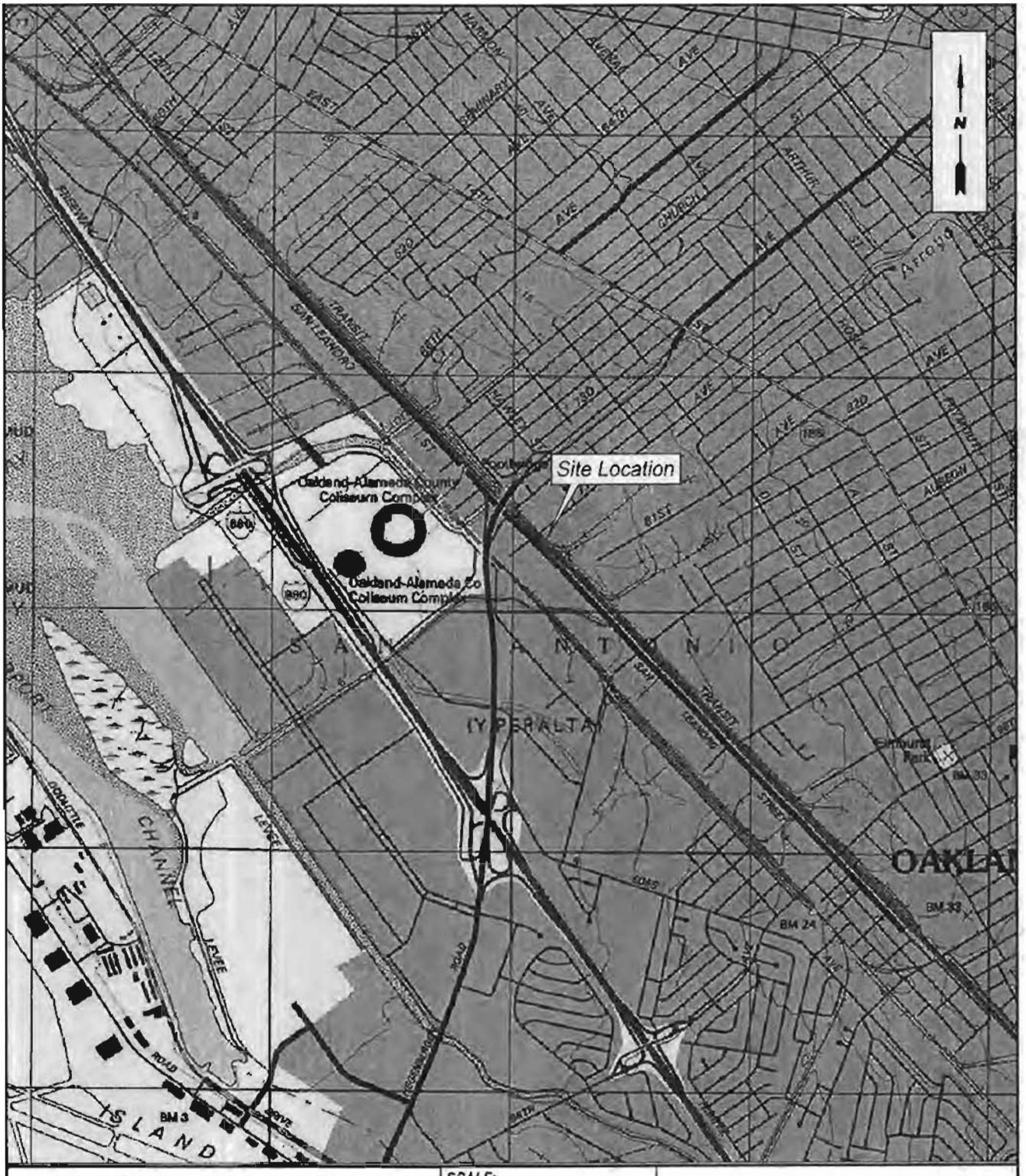
VIII. MONITORING WELL DECOMMISSIONING

Date Requested by ACEH: 09/22/11	Date of Well Decommissioning Report: 11/21/11	
All Monitoring Wells Decommissioned: Yes	Number Decommissioned: 9	Number Retained: Ø
Reason Wells Retained: NA		
Additional requirements for submittal of groundwater data from retained wells: None		
ACEH Concurrence - Signature: Jerry Wickham		Date: 12/05/11

Attachments:

1. Vicinity Map and Site Plans (4 pp)
2. Potentiometric Surface Maps, Cross Sections, and Concentration Graphs (10 pp)
3. Soil, Soil Gas, and Groundwater Samples Results Maps (15 pp)
4. Soil and Soil Vapor Analytical Data (15 pp)
5. Groundwater Analytical Data (21 pp)
6. Boring Logs and Electrical Conductivity Plots (90 pp)
7. Covenant and Environmental Restriction on Property (15 pp)
8. Revised Site Management Plan dated July 19, 2011 (47 pp)

This document and the related CASE CLOSURE LETTER & REMEDIAL ACTION COMPLETION CERTIFICATE shall be retained by the lead agency as part of the official site file.



SGI environmental

THE SOURCE GROUP, INC.

3451-C VINCENT ROAD
PLEASANT HILL, CA 94523

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

SCALE: 0 FEET 2000
SCALE

SITE LOCATION MAP

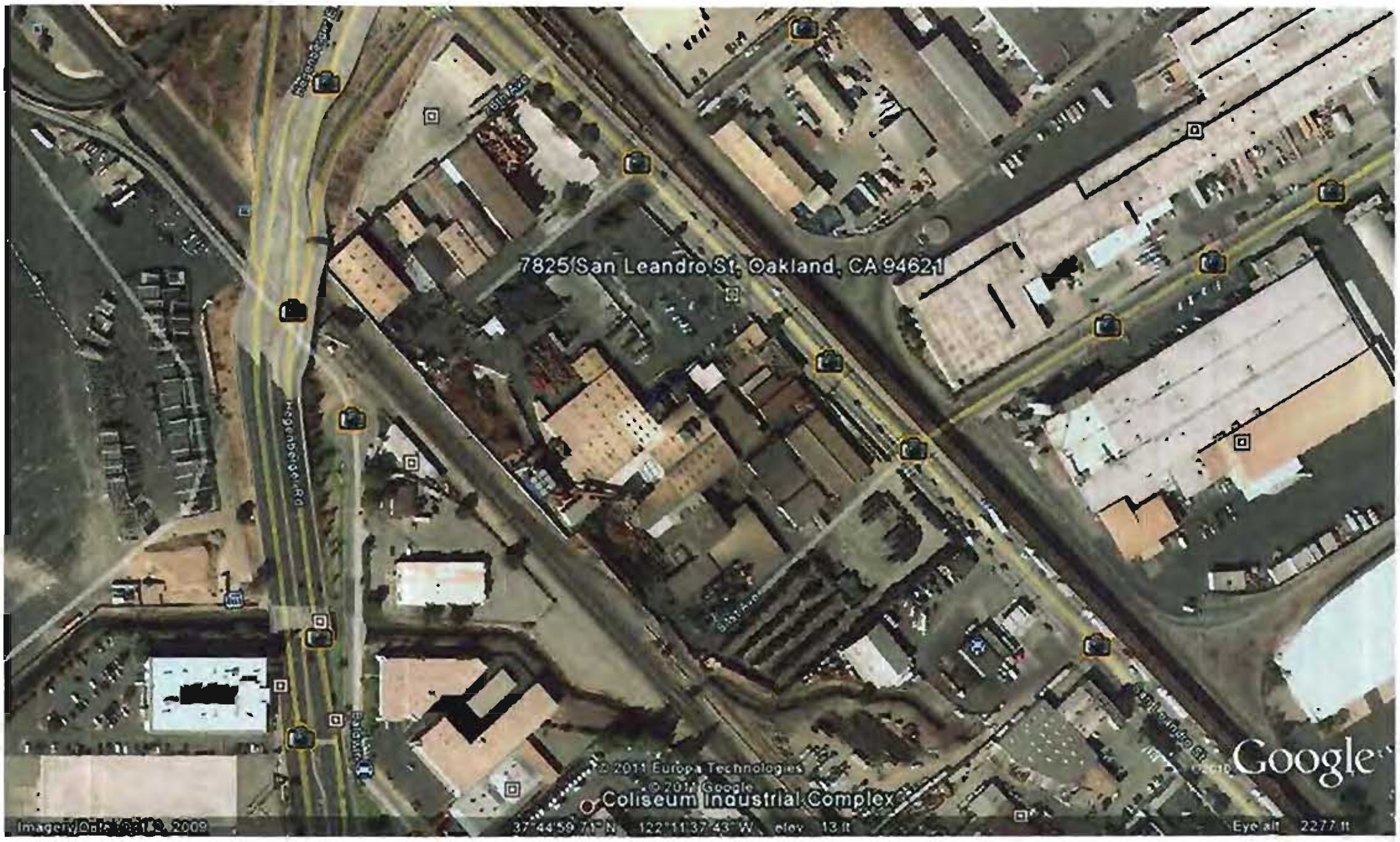
CLIENT: AB&I FOUNDRY

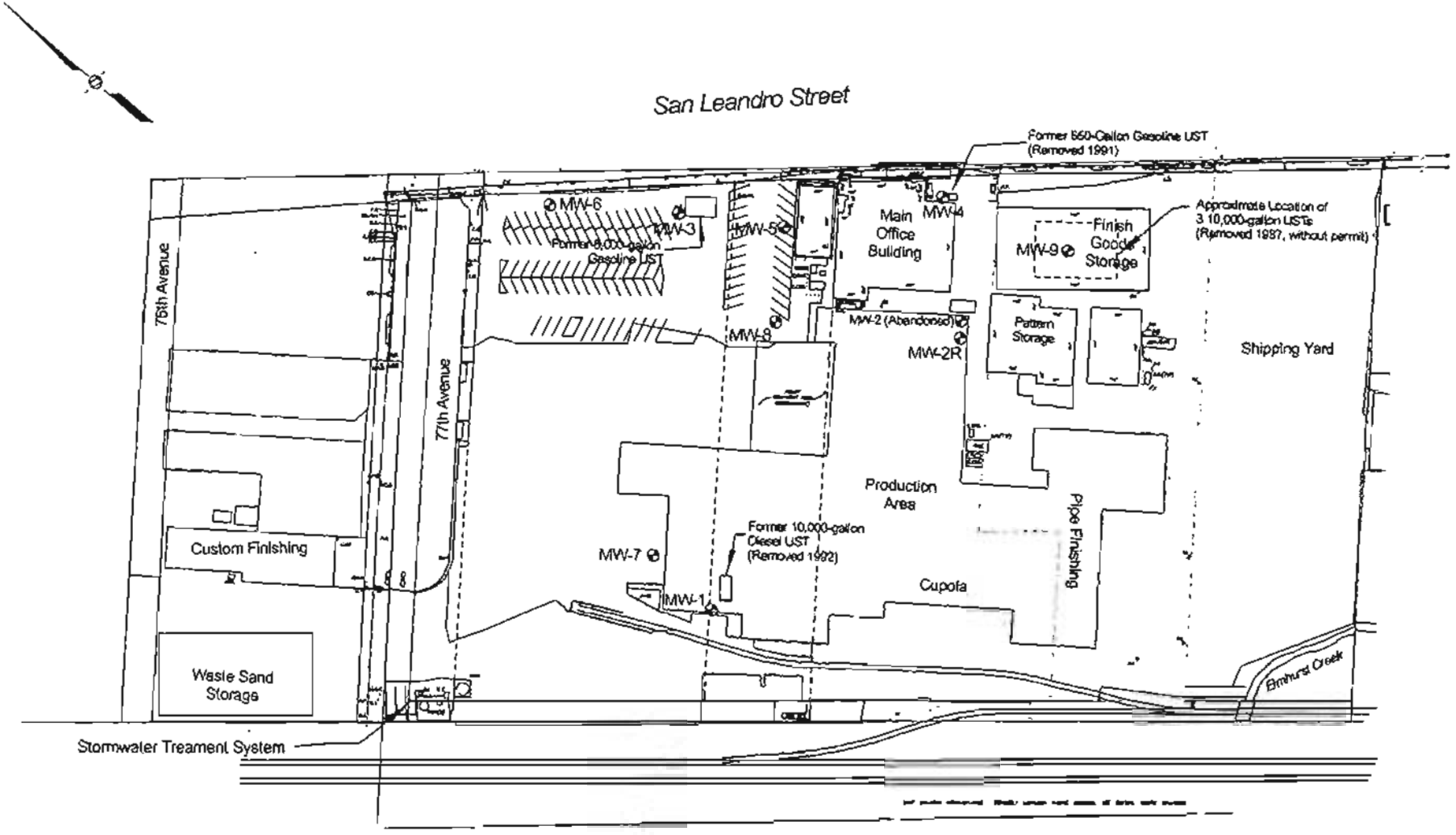
DATE: 6/27/07

LOCATION: 7825 San Leandro Street
Oakland, California

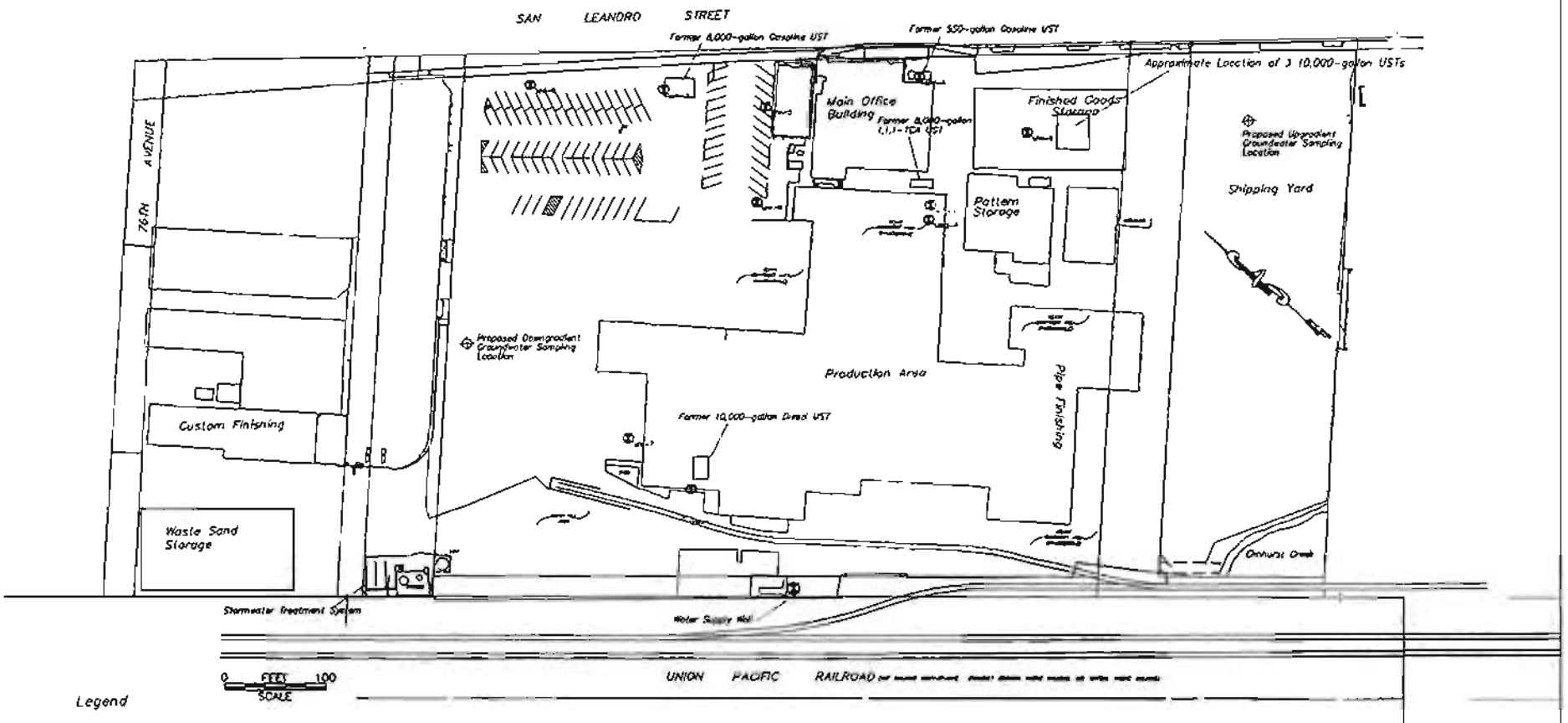
FIGURE: 1

ATTACHMENT 1


7825 San Leandro St, Oakland, CA 94621
Hegenberger Rd
San Leandro St
© 2011 Europa Technologies
© 2011 Google
Coliseum Industrial Complex
Google
37°44'59.71" N 122°11'37.43" W elev 13 ft
Eye alt 2277 ft



A B & I Foundry 7825 San Leandro Street Oakland, California	BSK Job No. E06055045 SITE PLAN FIGURE 2	BSK

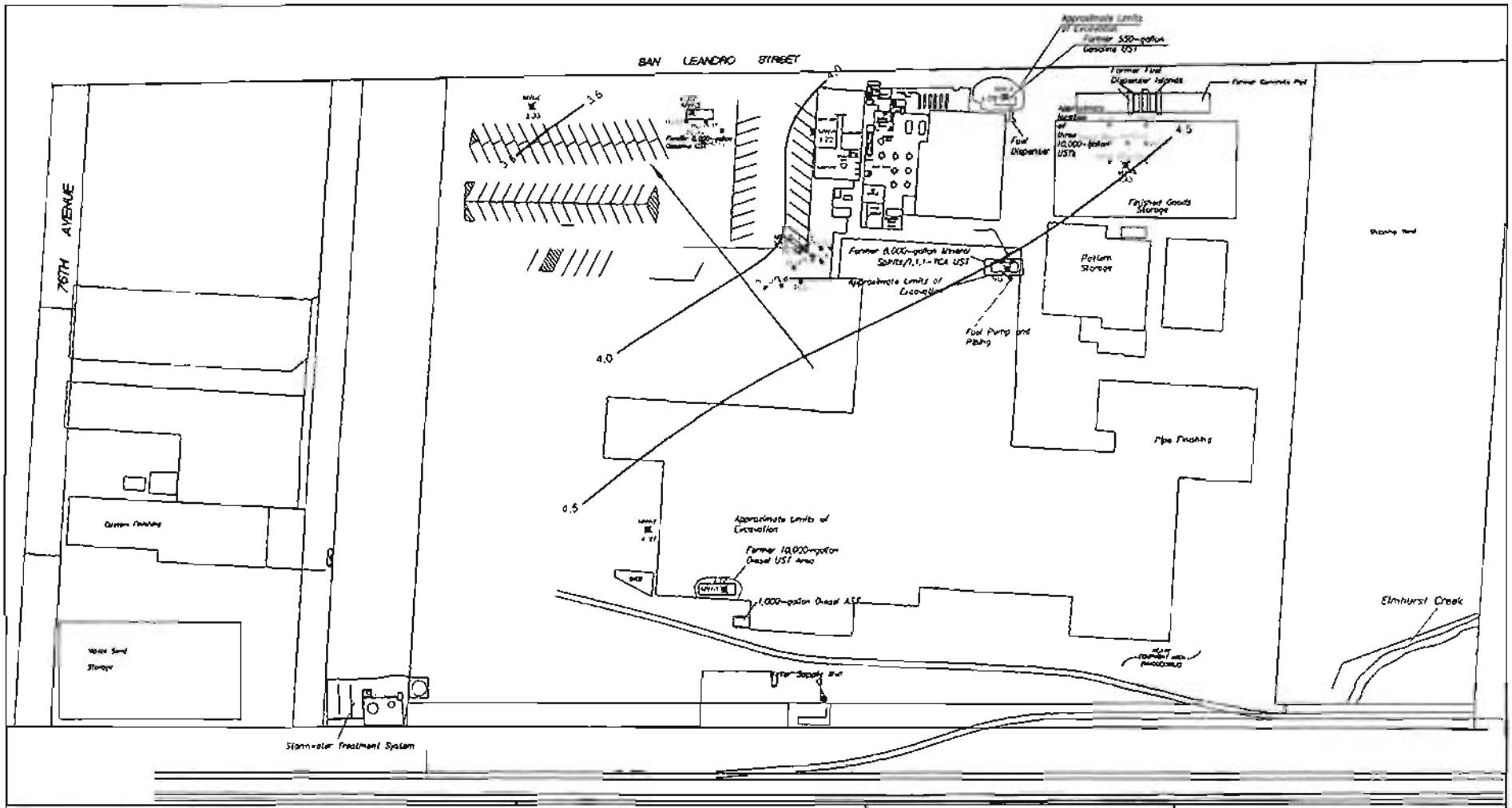


SITE PLAN

ARM FOUNDRY
7825 SAN LEANDRO STREET
OAKLAND, CALIFORNIA

SG Source Group, Inc.
2451-C Vincent Road
Pleasant Hill, CA 94523

Date: 8/24/07
Figure: 2
Site Plan.DWG



LEGEND

- Existing Monitoring Well Location (BSK, 1993, 2006)
- Abandoned Monitoring Well (BSK, 2006)
- UST Underground Storage Tank
- June 2009 EAB Injection Location
- June 2009 EAB Injection Location

2.5 —— 2.5 Groundwater Elevation Contour (in feet above mean sea level)

—— Groundwater Flow Direction

4.30* Groundwater Surface Elevation Not Used

AB&I FOUNDRY
7825 SAN LEANDRO STREET
OAKLAND, CALIFORNIA

PROJECT NO	DATE	DRAWN BY:	APP. BY:
01-AB1-001	1/12/2010	ZA	KD

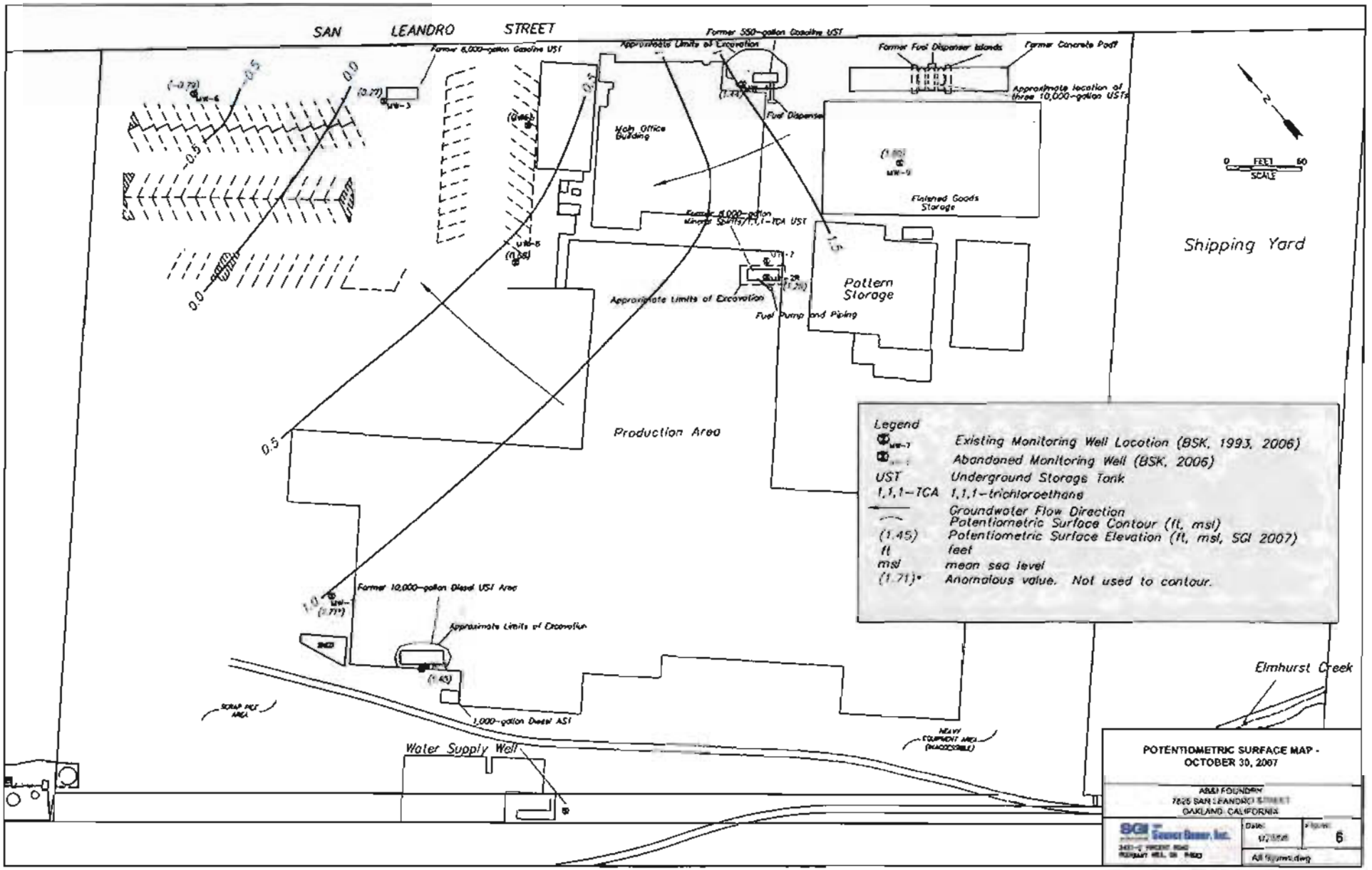
0 90 180
HORIZONTAL SCALE IN FEET

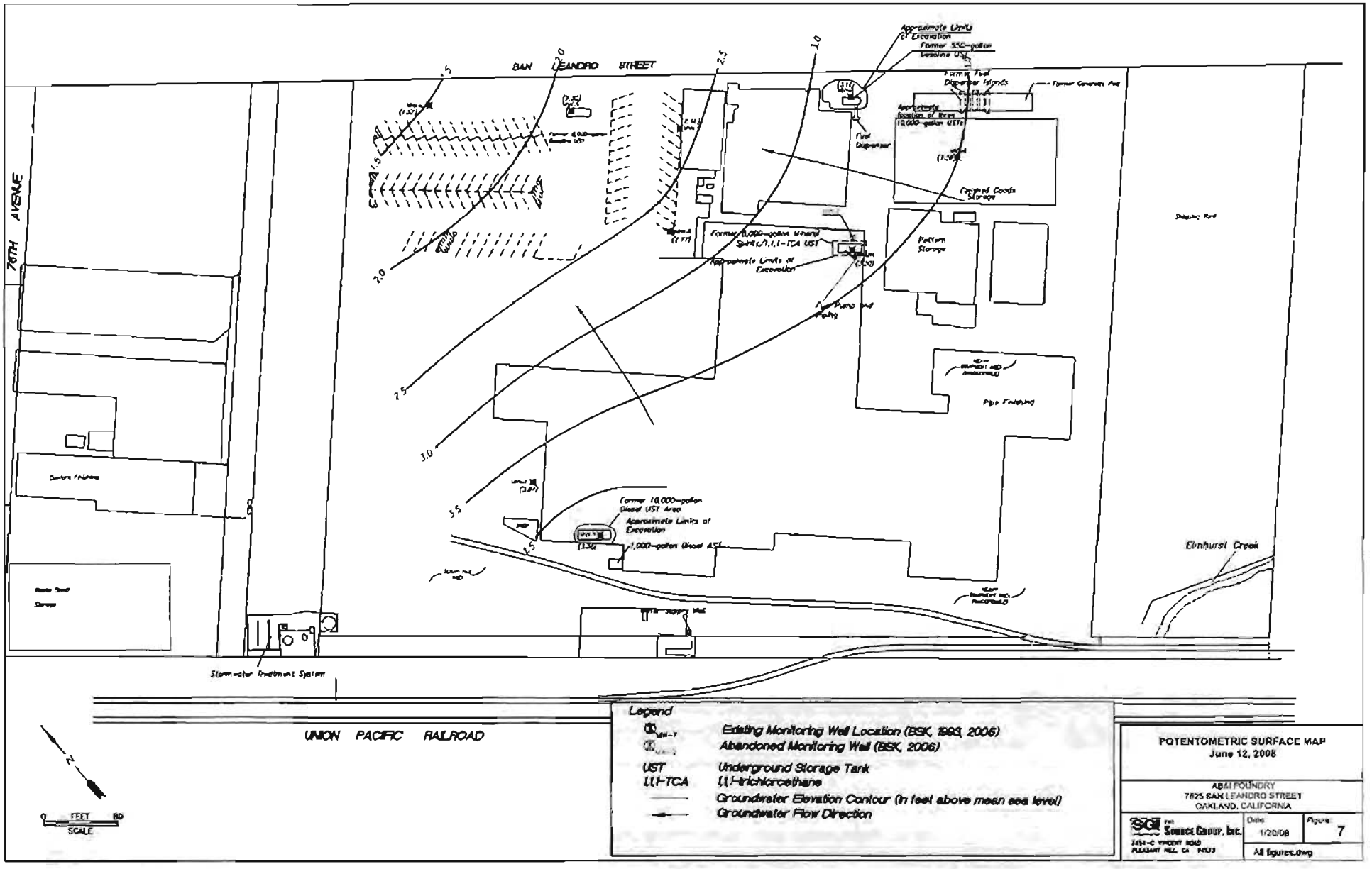
POTENTOMETRIC SURFACE MAP
DECEMBER 22, 2010

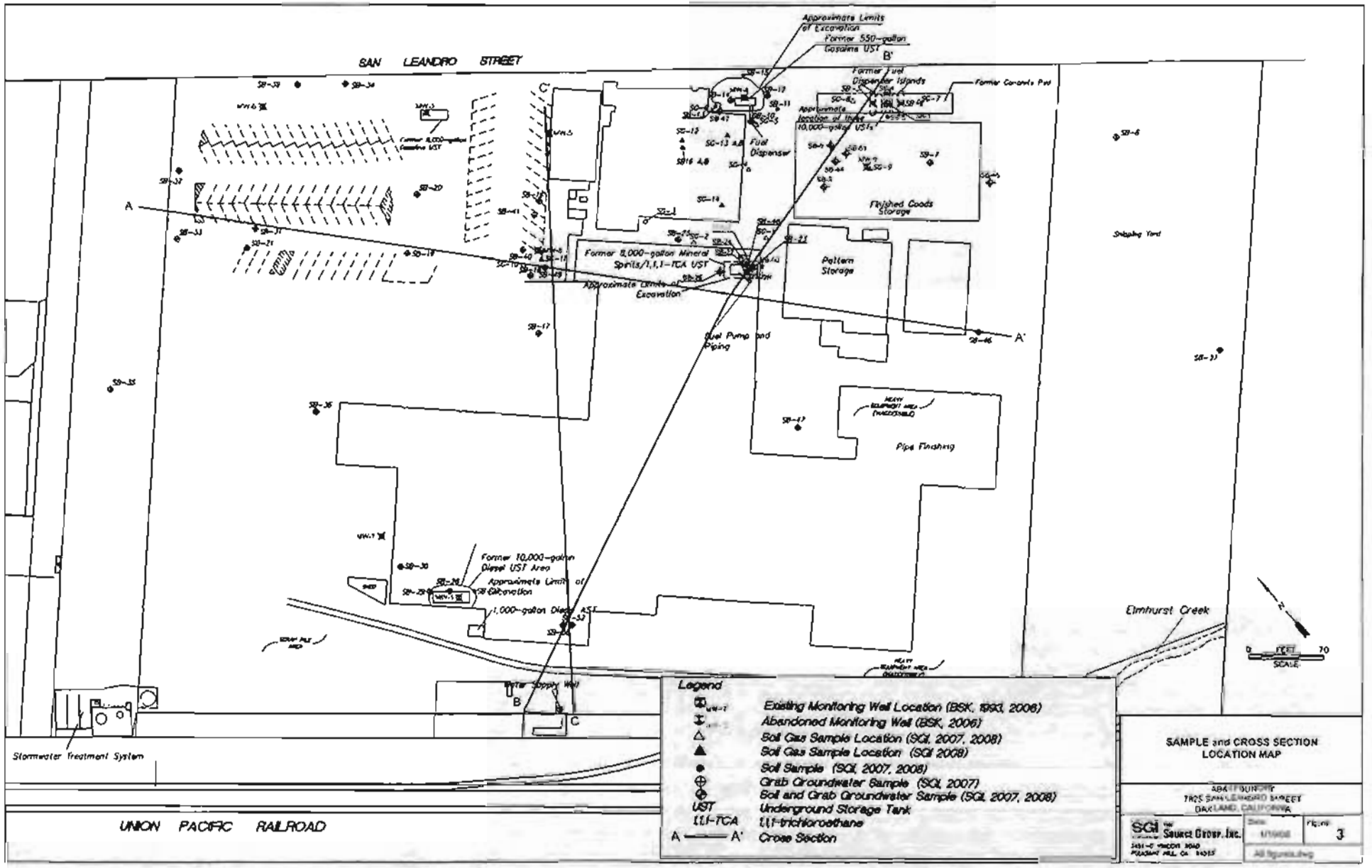
SGI THE SOURCE GROUP, INC.
3451-C VINCENT ROAD
PLEASANT HILL, CA 94523

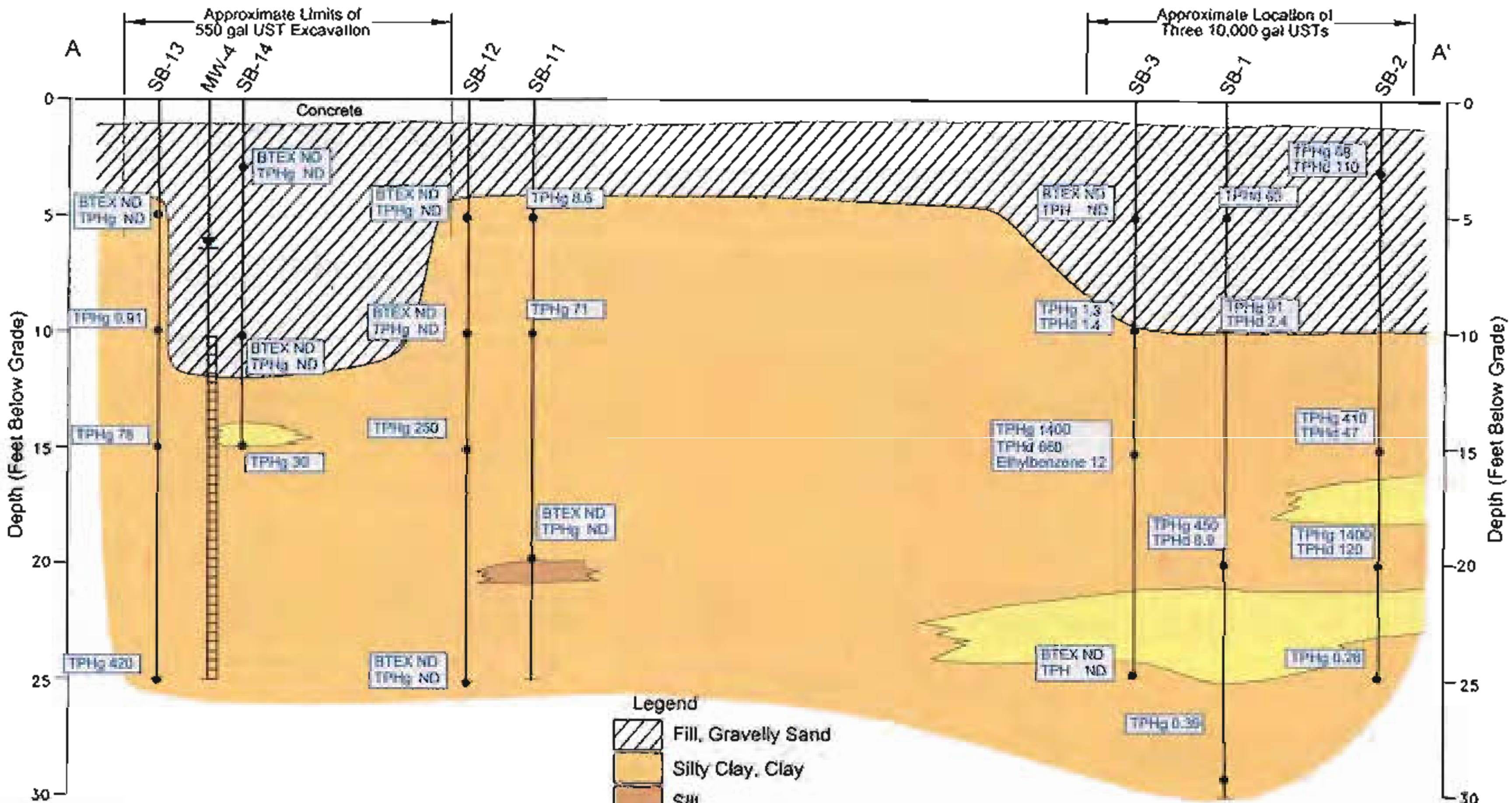
FIGURE 3

ATTACHMENT 2


SAN LEANDRO STREET
Former 8,000-gallon Gasoline UST
Former 550-gallon Gasoline UST
Approximate Limits of Excavation
Former Fuel Dispenser Islands
Former Concrete Pad?
Approximate location of three 10,000-gallon USTs
Fuel Dispenser
Main Office Building
Finished Goods Storage
Former 8,000-gallon Mineral Spirits/1,1,1-TCA UST
Approximate Limits of Excavation
Fuel Pump and Piping
Pattern Storage
Shipping Yard
Production Area
Former 10,000-gallon Diesel UST Area
Approximate Limits of Excavation
1,000-gallon Diesel AST
SCRAP PILE AREA
HEAVY EQUIPMENT AREA (INACCESSIBLE)
Water Supply Well
Elmhurst Creek
0 FEET 50
SCALE
Legend
Existing Monitoring Well Location (BSK, 1993, 2006)
Abandoned Monitoring Well (BSK, 2006)
UST Underground Storage Tank
1,1,1-TCA 1,1,1-trichloroethane
Groundwater Flow Direction
Potentiometric Surface Contour (ft, msl)
(1.45) Potentiometric Surface Elevation (ft, msl, SGI 2007)
ft feet
msl mean sea level
(1.71)* Anomalous value. Not used to contour.
POTENTIOMETRIC SURFACE MAP - OCTOBER 30, 2007
A&J FOUNDRY
7625 SAN LEANDRO STREET
OAKLAND, CALIFORNIA
6


SAN LEANDRO STREET
76TH AVENUE
UNION PACIFIC RAILROAD
Elmhurst Creek
Stormwater Treatment System
Former 10,000-gallon Diesel UST Area
Approximate Limits of Excavation
1,000-gallon Diesel AST
Former 8,000-gallon Waste Oil/1,1,1-TCA UST
Approximate Limits of Excavation
Former Fuel Dispensers Islands
Former Concrete Pad
Approximate Location of Three 10,000-gallon USTs
Fuel Dispenser
Finished Goods Storage
Pattern Storage
Pipe Finishing
Former 550-gallon Gasoline UST
Legend
Existing Monitoring Well Location (BSK, 1993, 2006)
Abandoned Monitoring Well (BSK, 2006)
UST Underground Storage Tank
1,1,1-TCA 1,1,1-trichloroethane
Groundwater Elevation Contour (in feet above mean sea level)
Groundwater Flow Direction
N
0 FEET 80
SCALE
POTENTIOMETRIC SURFACE MAP
June 12, 2008
ABM FOUNDRY
7825 SAN LEANDRO STREET
OAKLAND, CALIFORNIA
For SOMMER GROUP, Inc.
Date 1/20/09
Figure 7
All figures.dwg


SAN LEANDRO STREET
Approximate Limits of Excavation
Former 550-gallon Gasoline UST
Former Fuel Dispenser Islands
Former Caronite Pad
Approximate location of three 10,000-gallon USTs
Fuel Dispenser
Finished Goods Storage
Former 8,000-gallon Mineral Spirits/1,1,1-TCA UST
Approximate Limits of Excavation
Pattern Storage
Fuel Pump and Piping
Shipping Yard
Pipe Finishing
Former 10,000-gallon Diesel UST Area
Approximate Limits of Excavation
1,000-gallon Diesel AST
Elmhurst Creek
Stormwater Treatment System
UNION PACIFIC RAILROAD
Legend
Existing Monitoring Well Location (BSK, 1993, 2006)
Abandoned Monitoring Well (BSK, 2006)
Soil Gas Sample Location (SGI, 2007, 2008)
Soil Gas Sample Location (SGI 2008)
Soil Sample (SGI, 2007, 2008)
Grab Groundwater Sample (SGI, 2007)
Soil and Grab Groundwater Sample (SGI, 2007, 2008)
UST Underground Storage Tank
1,1,1-TCA 1,1,1-trichloroethane
Cross Section
SAMPLE and CROSS SECTION LOCATION MAP
Source Group, Inc.
Figure 3



Legend

- Fill, Gravelly Sand
- Silty Clay, Clay
- Silt
- Sand, Gravelly Sand
- Sandy Clay

TPHg Total Petroleum Hydrocarbons as Gasoline
TPHd Total Petroleum Hydrocarbons as Diesel
● Soil Sample (SGI, 2007)
Well Screen Interval
UST Underground Storage Tank
Static Groundwater (SGI, December 2007)

Scale:
Horizontal 1"=15'
Vertical 1"=5'

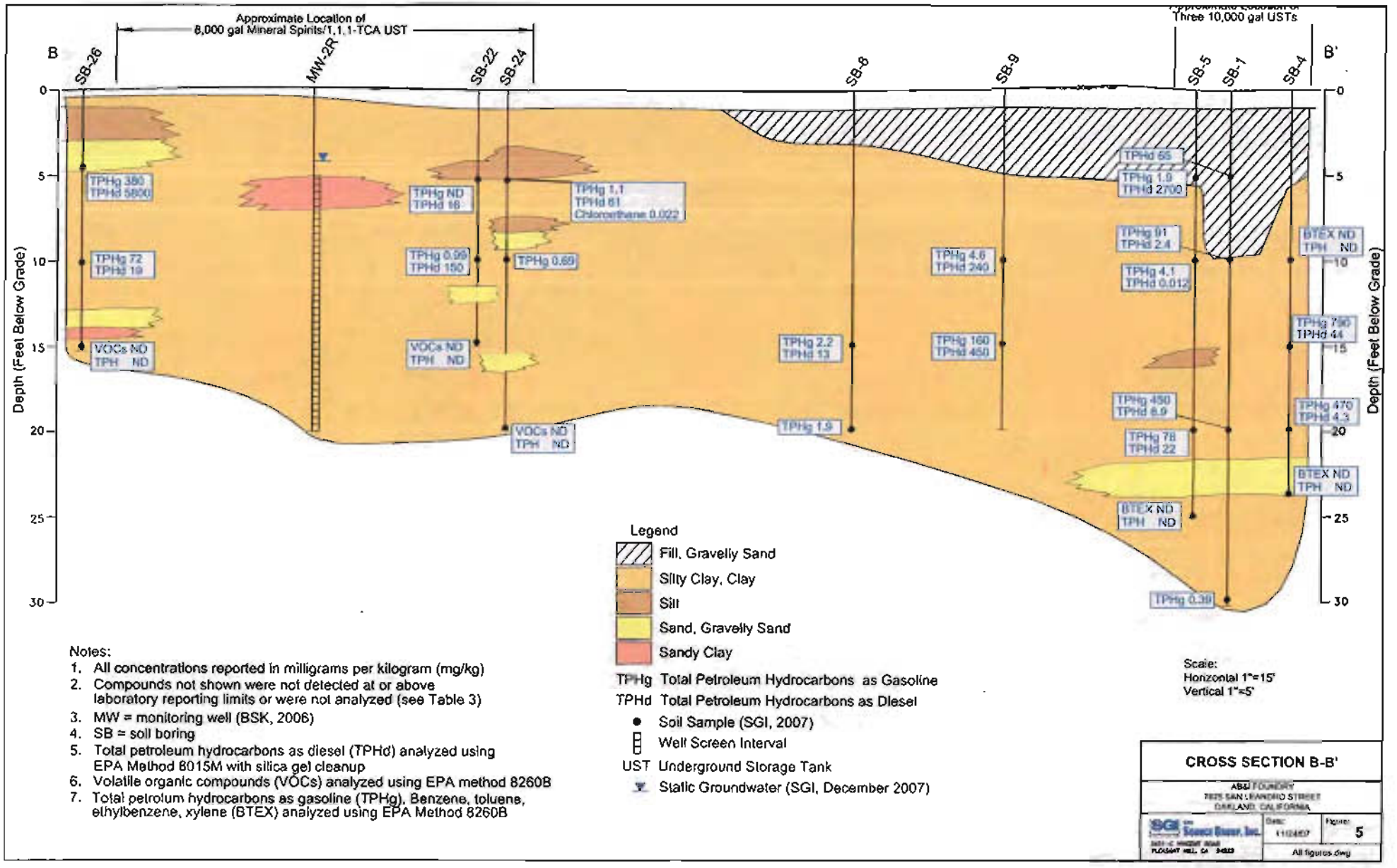
Notes:

1. All concentrations reported in milligrams per kilogram (mg/kg)
2. Compounds not shown were not detected at or above laboratory reporting limits or were not analyzed (see Table 2)
3. MW = monitoring well (BSK, 2006)
4. SB = soil boring
5. Total petroleum hydrocarbons as diesel (TPHd) analyzed using EPA Method 8015M with silica gel cleanup
6. Volatile organic compounds (VOCs) analyzed using EPA method 8260B
7. Total petrolum hydrocarbons as gasoline (TPHg), Benzene, toluene, ethylbenzene, xylene (BTEX) analyzed using EPA Method 8260B

CROSS SECTION A-A'

ABM FOUNDRY
7825 SAN LEANDRO STREET
OAKLAND, CALIFORNIA

SGI
1/15/08
Figure 4
All figures.dwg



Notes:

1. All concentrations reported in milligrams per kilogram (mg/kg)
2. Compounds not shown were not detected at or above laboratory reporting limits or were not analyzed (see Table 3)
3. MW = monitoring well (BSK, 2006)
4. SB = soil boring
5. Total petroleum hydrocarbons as diesel (TPHd) analyzed using EPA Method 8015M with silica gel cleanup
6. Volatile organic compounds (VOCs) analyzed using EPA method 8260B
7. Total petrolum hydrocarbons as gasoline (TPHg), Benzene, toluene, ethylbenzene, xylene (BTEX) analyzed using EPA Method 8260B

Scale:
Horizontal 1"=15'
Vertical 1"=5'

CROSS SECTION B-B'

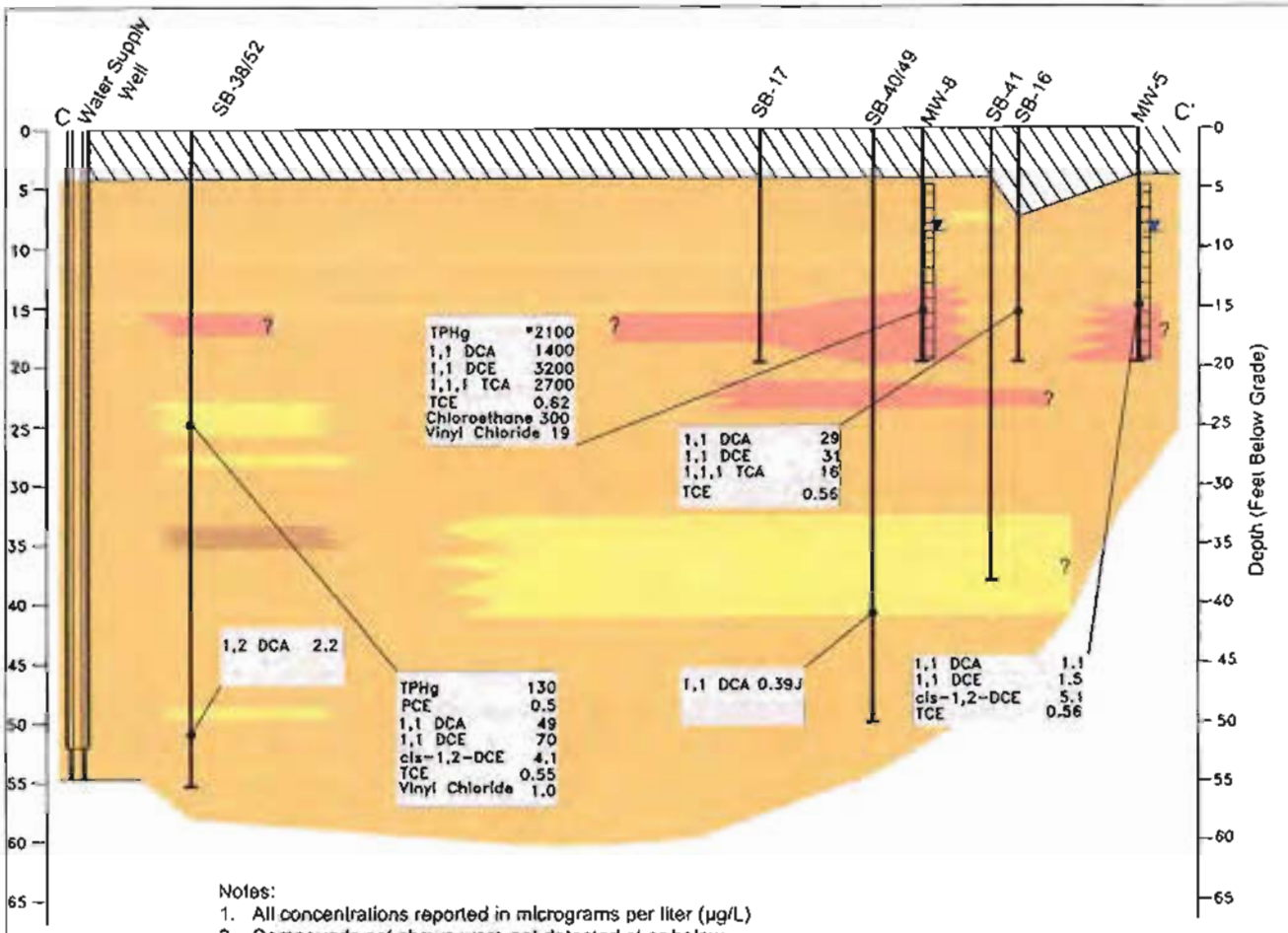
AB&J FOUNDRY
7825 SAN LEANDRO STREET
OAKLAND, CALIFORNIA

Source Group, Inc.

Date: 11/24/07

Figure: 5

All figures.dwg



Legend

- Fill
- Silty Clay, Clay
- Silt
- Sand, Gravelly Sand
- Sandy Clay, Gravelly Clay

TPHg Total Petroleum Hydrocarbons as Gasoline
TPHd Total Petroleum Hydrocarbons as Diesel
TCE Trichloroethene
DCA Dichloroethane
DCE Dichloroethene
PCE Tetrachloroethene
*2100 Reported due to the presents of discrete peaks
0.39j Estimated Value due to concentration approaching practical quantitation limit (PQL)
ND Analytes not detected
Groundwater Sample (SGI, 2008)
Well Screen Interval
UST Underground Storage Tank
Static Groundwater (SGI, June 2008)

Notes:

1. All concentrations reported in micrograms per liter (µg/L)
2. Compounds not shown were not detected at or below laboratory practical quantitation limits (PQLs) or were not analyzed (see Tables 4 & 5)
3. MW = monitoring well (BSK, 2006)
4. SB = soil boring (SGI, 2007, 2008)
5. TPHg and TPHd analyzed using EPA Method 8015M
6. Volatile organic compounds (VOCs) analyzed using EPA method 8260B

Scale:
Horizontal 1"=50'
Vertical 1"=10'

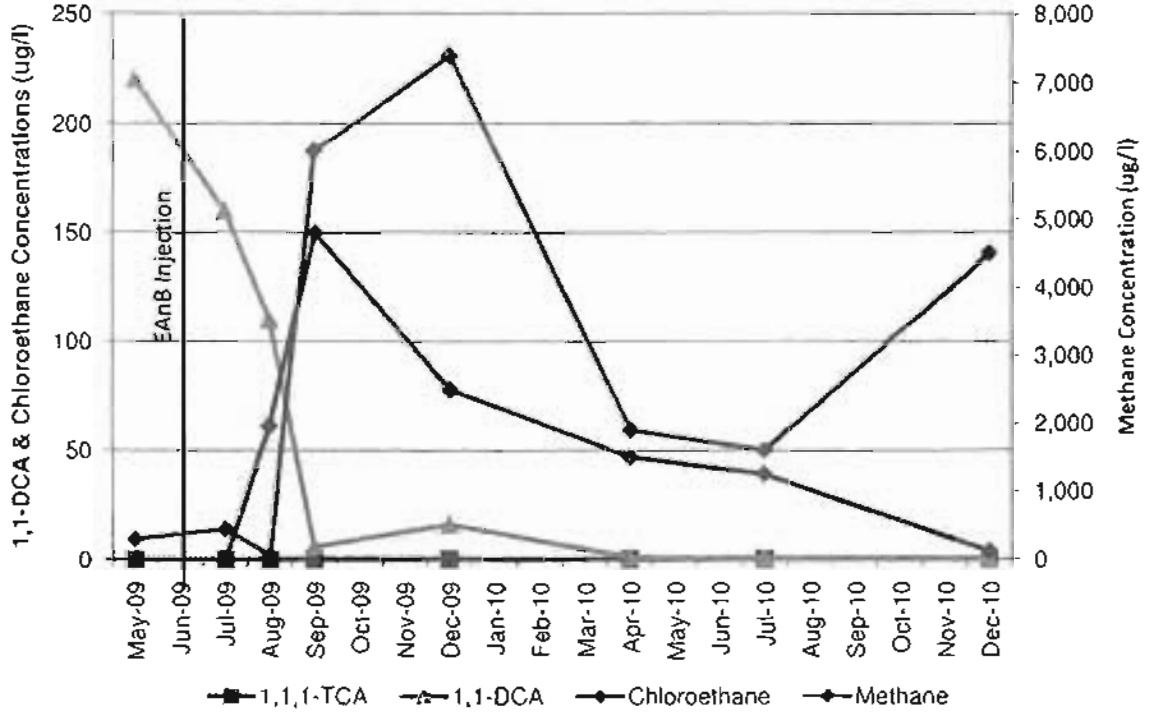
CROSS SECTION C-C'

A&I FOUNDRY
7825 SAN LEANDRO STREET
OAKLAND, CALIFORNIA

Date: 11/24/07
Figure: 6
All figures.dwg

Figure 6
EAnB Effectiveness Results: MW-3

1,1-DCA, Chloroethane, and Methane Trends



1,1-DCE, Vinyl Chloride, and Ethene Trends

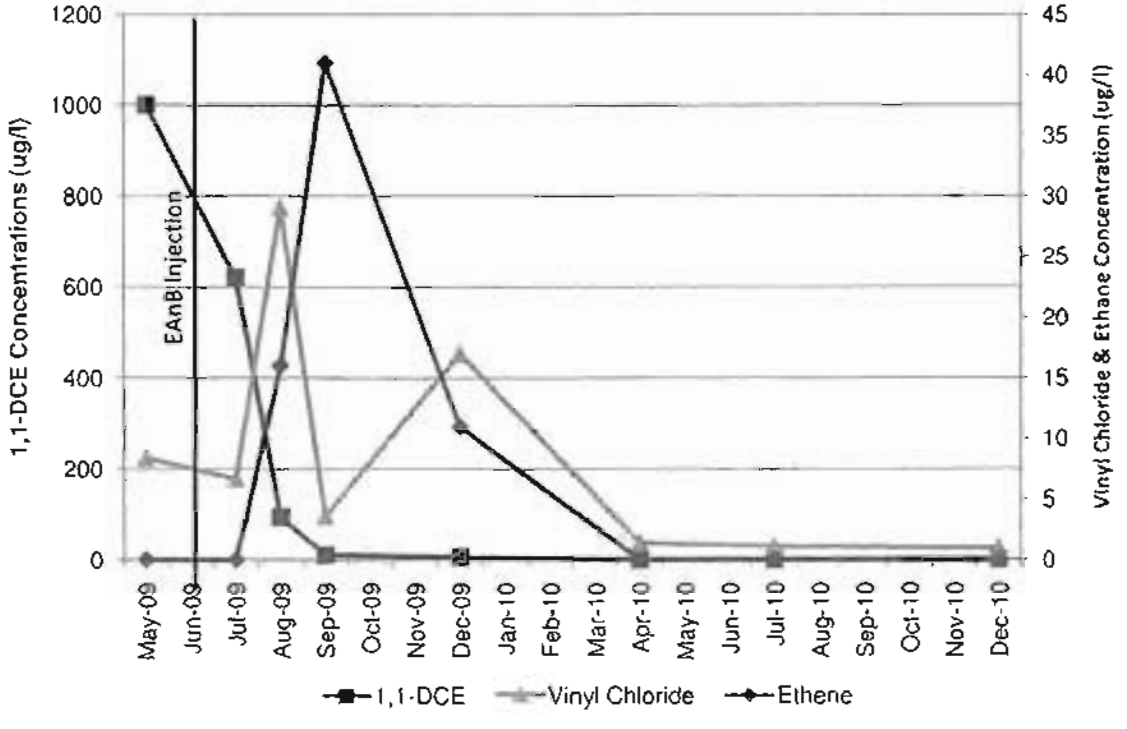
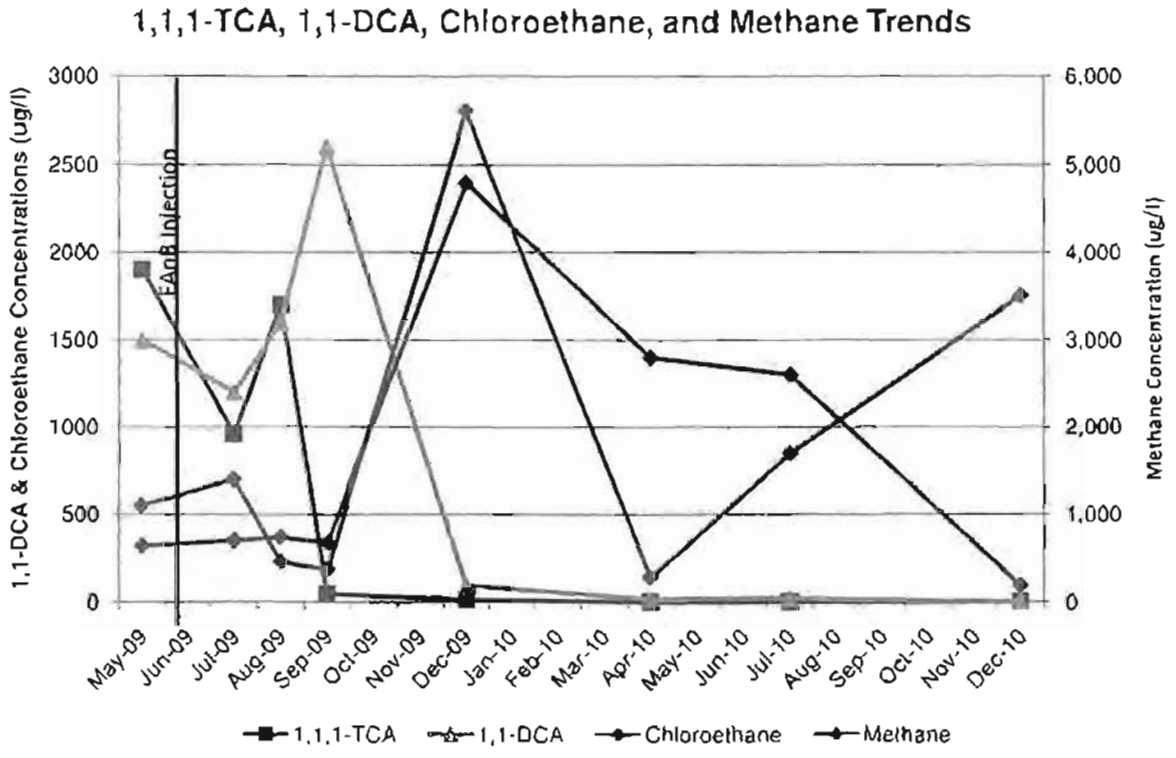


Figure 7
EAnB Effectiveness Results: MW-8



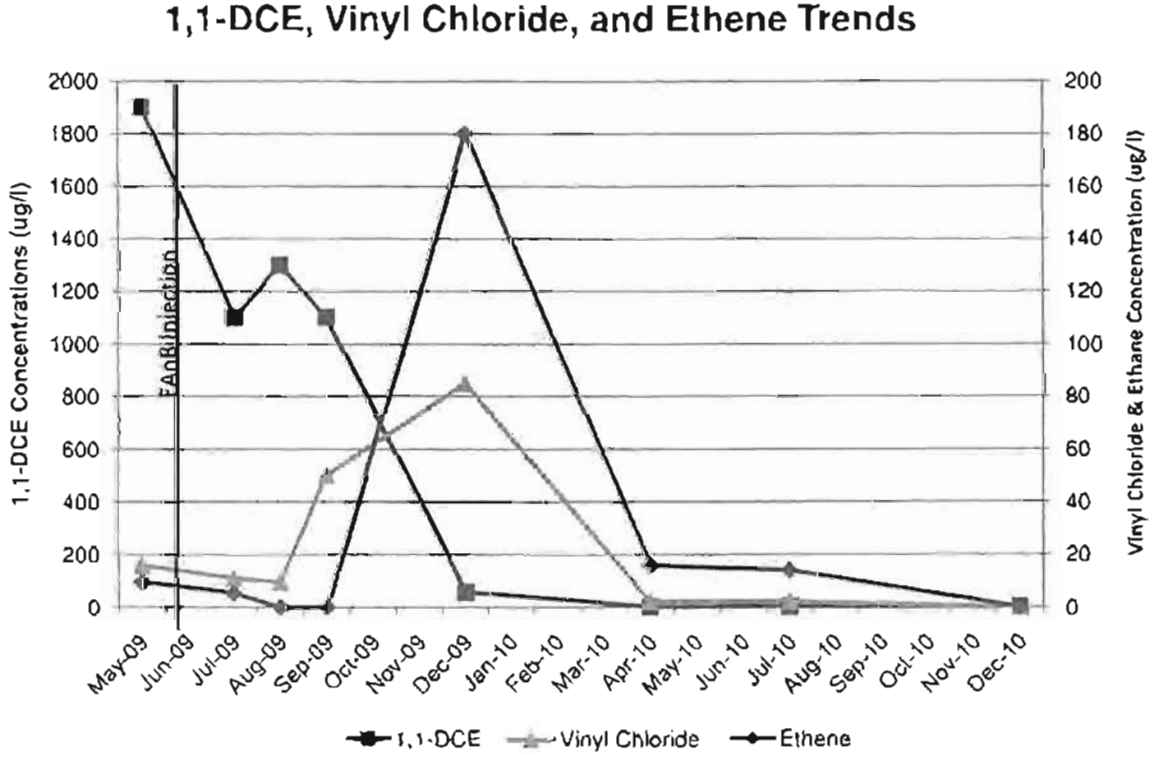
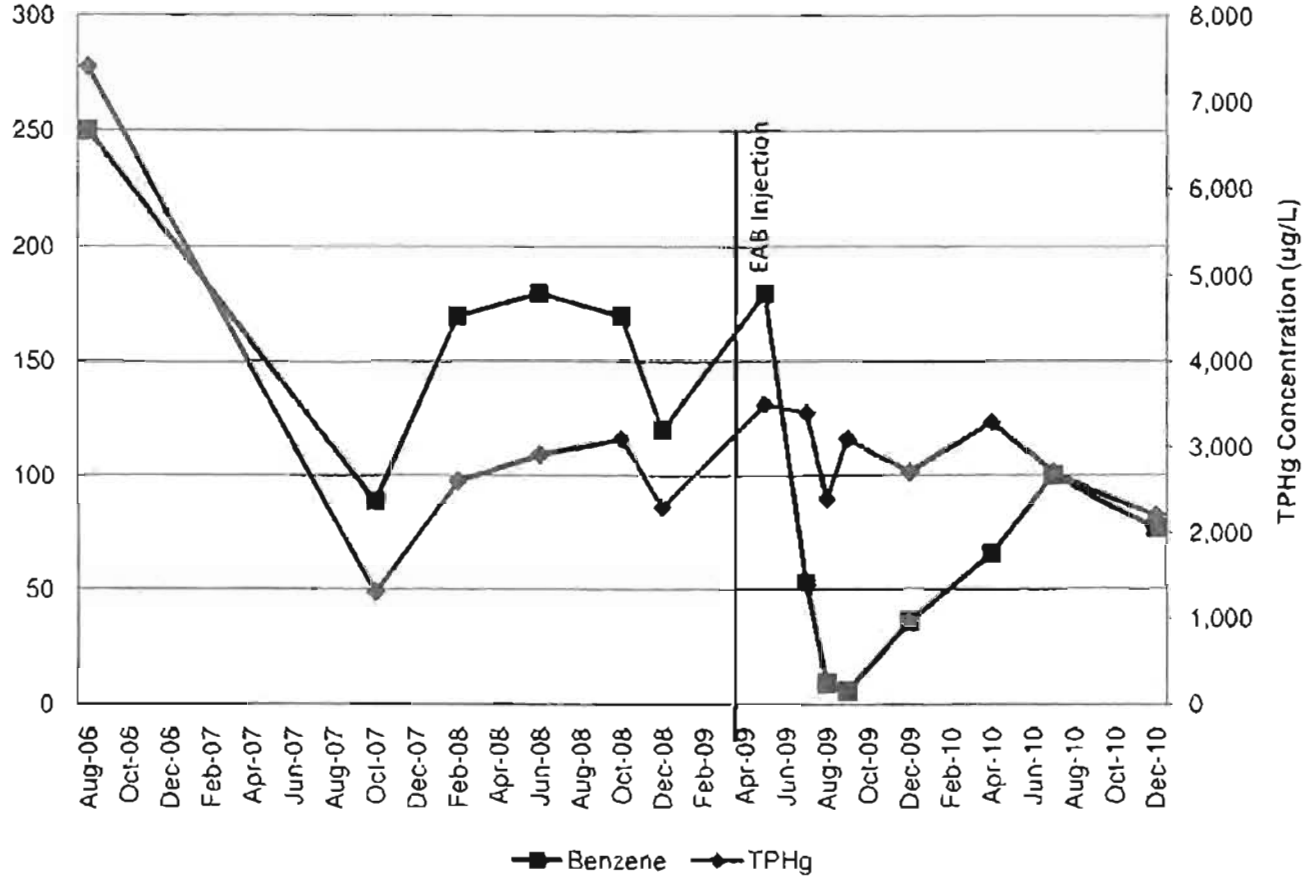
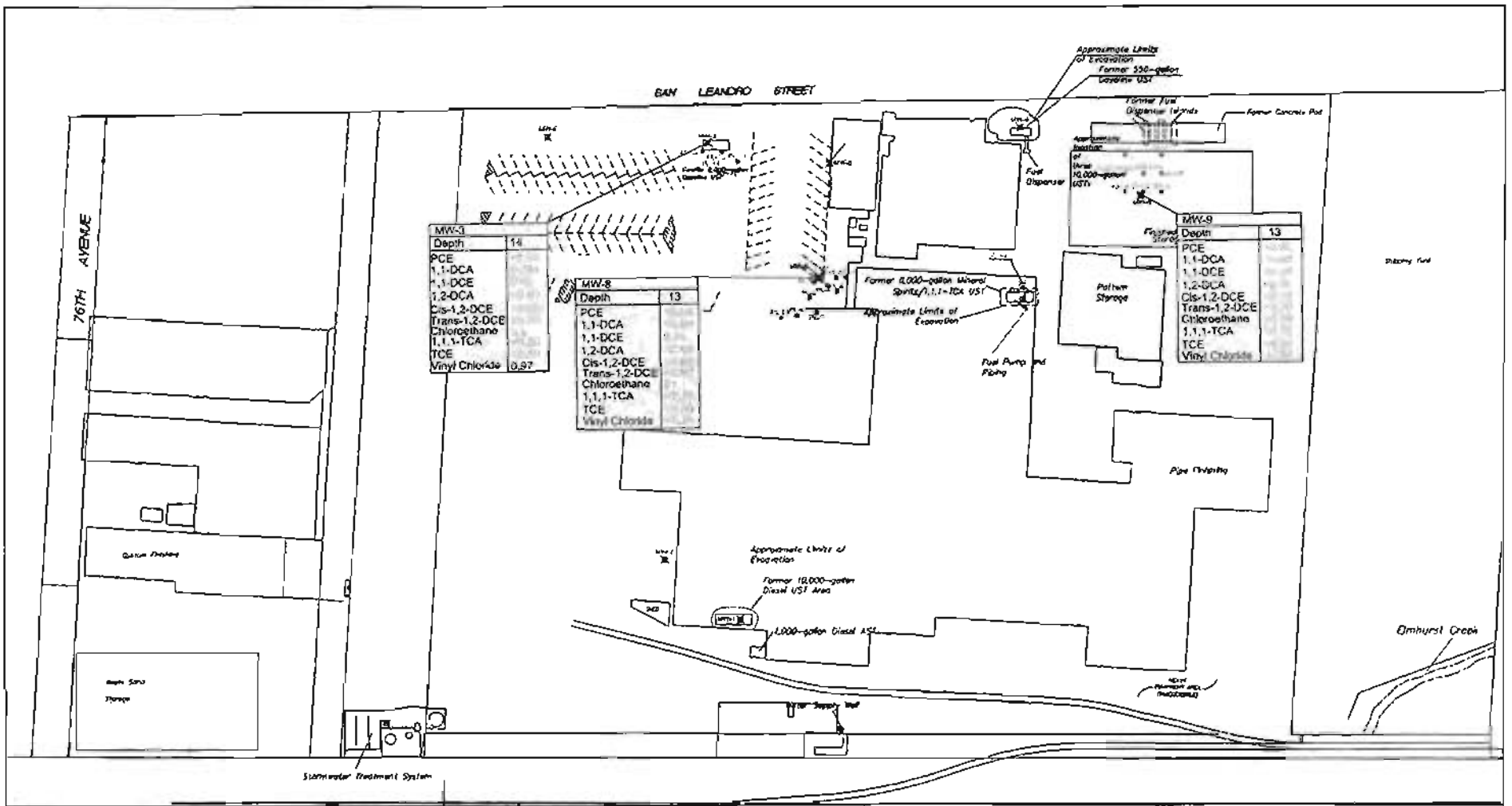


Figure 8
Benzene and TPHg Concentration Trend: MW-9





LEGEND

MW-2R	Boring ID
Depth	Depth in feet below ground surface
PCE	Tetrachloroethene
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 Not Detected at or above the laboratory Practical Quantitation Limit (PQL) or <0.50 ug/l)

Existing Monitoring Well Location (BSK, 1993, 2005)

Abandoned Monitoring Well (BSK, 2006)

June 2009 EAB Injection Location

June 2009 GAB Injection Location

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

ABM FOUNDRY
7825 SAN LEANDRO STREET
OAKLAND, CALIFORNIA

PROJECT NO	DATE	DRAWN BY	APP. BY
01-ABM-001	02/24/2010	ZA	KD

0 80 160
HORIZONTAL SCALE IN FEET

GROUNDWATER ANALYTICAL RESULTS -CHLORINATED VOCs- DECEMBER 2010

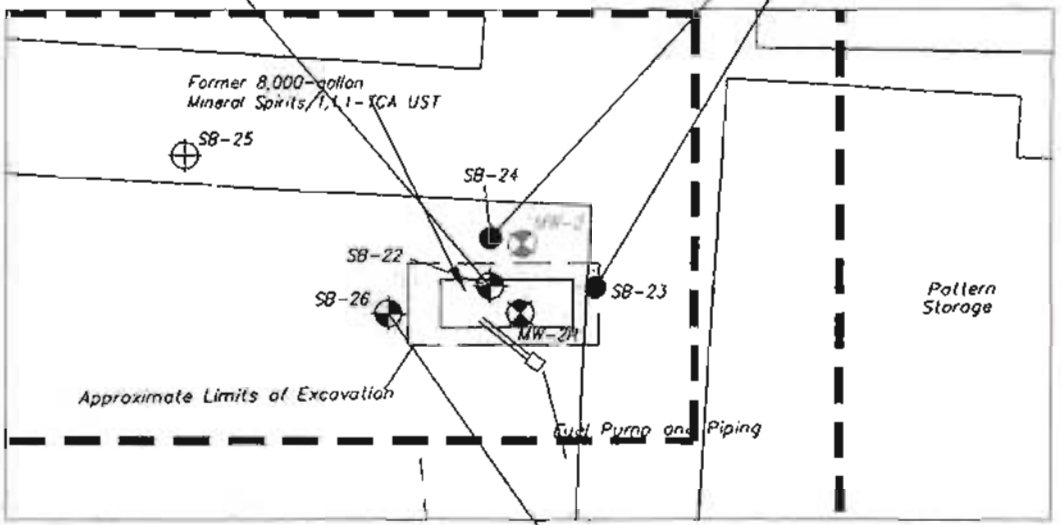
THE SOURCE GROUP, INC.
3451-C VINCENT ROAD
PLEASANT HILL, CA 94523

FIGURE 5

SB-22				
Depth	3'	5'	10'	15'
TPHg				
TPHd				
B				
T				
E				
X				

SB-24				
Depth	3'	5'	10'	20'
TPHg				
TPHd	170			
B				
T				
E				
X				

SB-23				
Depth	3'	5'	10'	15'
TPHg				
TPHd		190		
B				
T				
E				
X				



SB-26			
Depth	4'	10'	15'
TPHg			
TPHd	5800		
B			
T			
E			
X			

Legend

Soring ID
Depth in feet below ground surface
Total Petroleum Hydrocarbons as Gasoline
Total Petroleum Hydrocarbons as Diesel
Benzene
Toluene
Ethylbenzene
Xylene

SB-26		
Depth	5'	10'
TPHg		
TPHd		
B		
T		
E		
X		

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)*
- *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.

0 FEET 20
SCALE

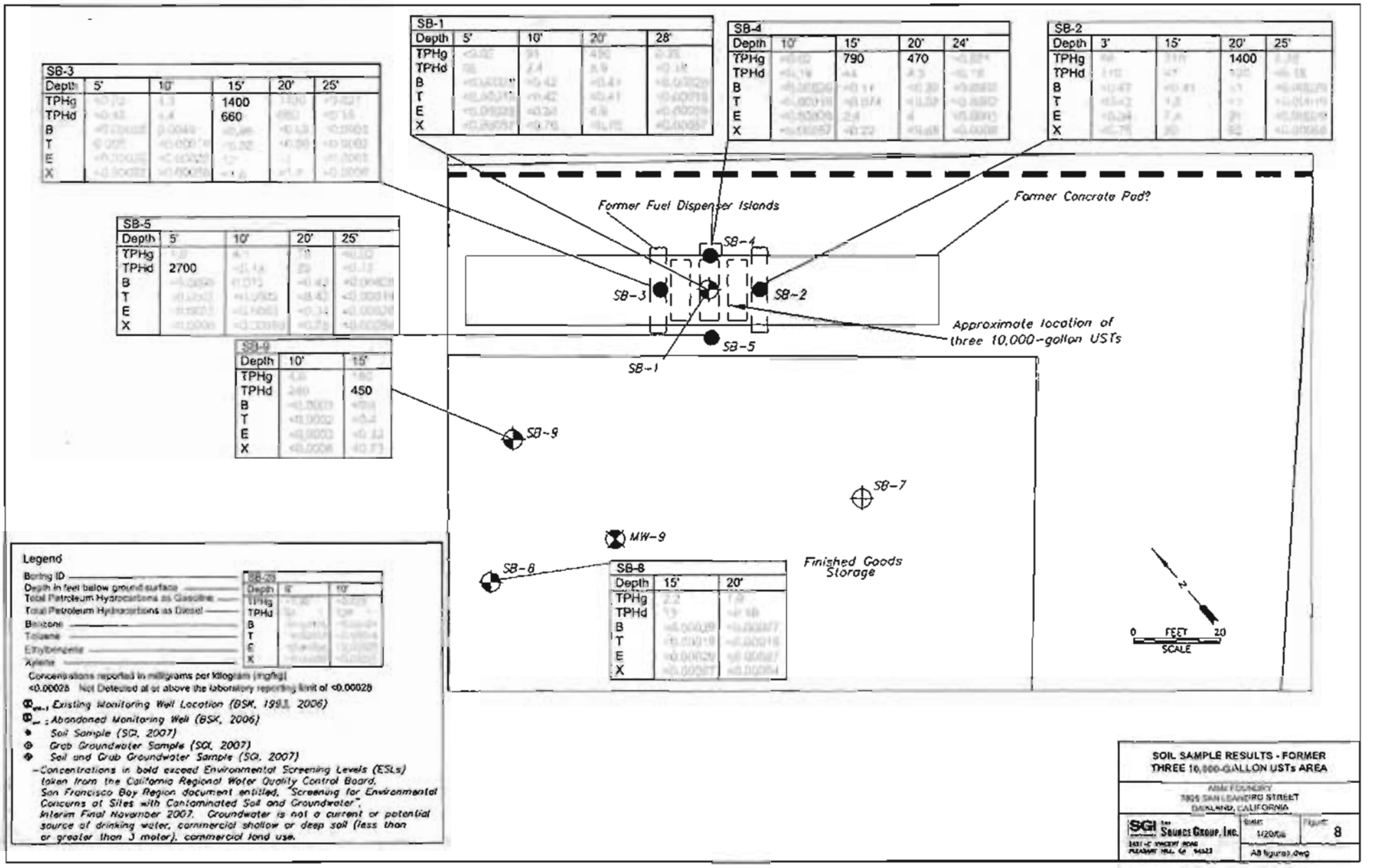
SOIL SAMPLE RESULTS - FORMER 8,000-GALLON MINERAL SPIRITS/1,1,1-TCA UST AREA

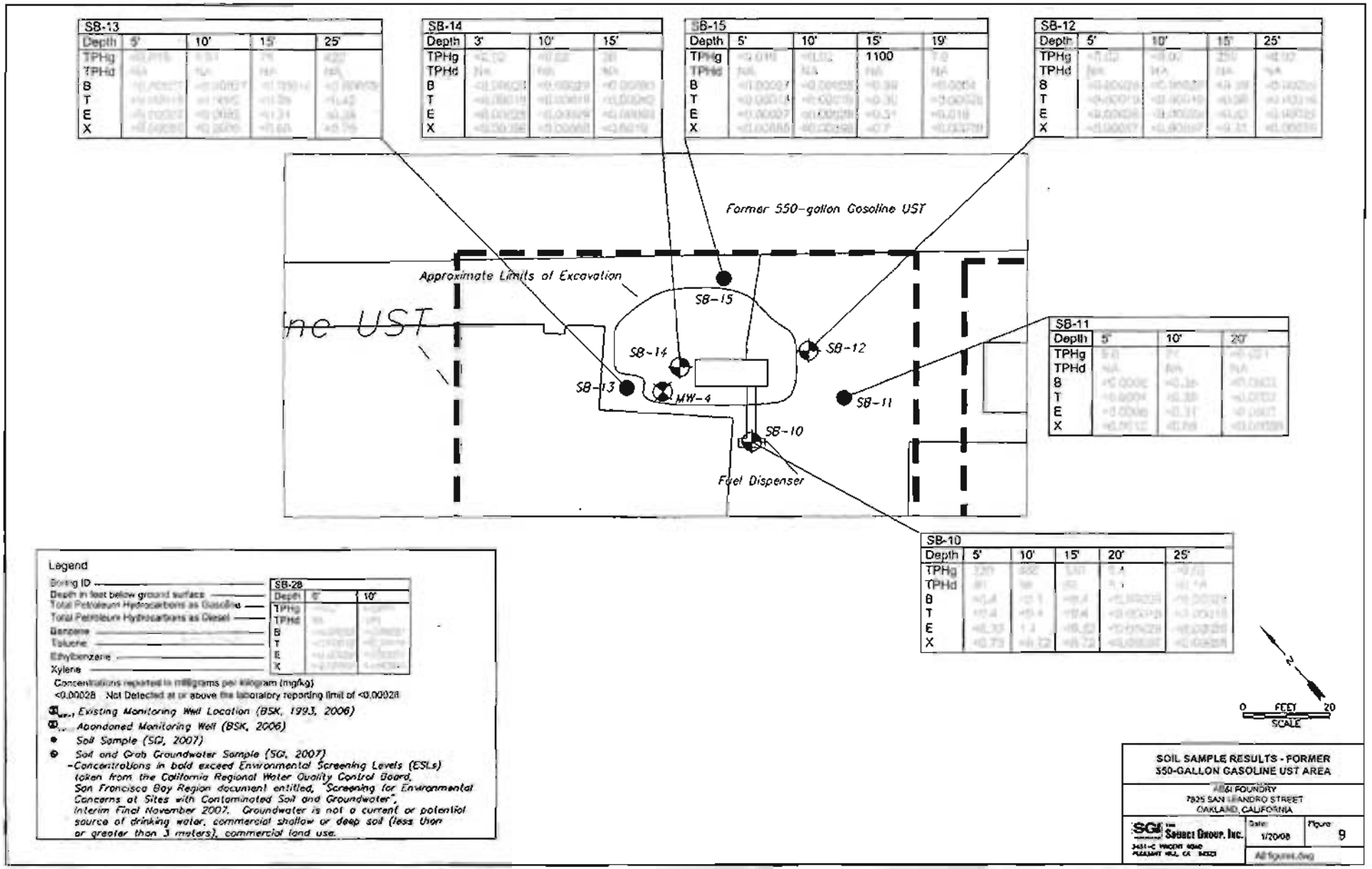
ABAJ FOUNDRY
7825 SAN LEANDRO STREET
OAKLAND, CALIFORNIA

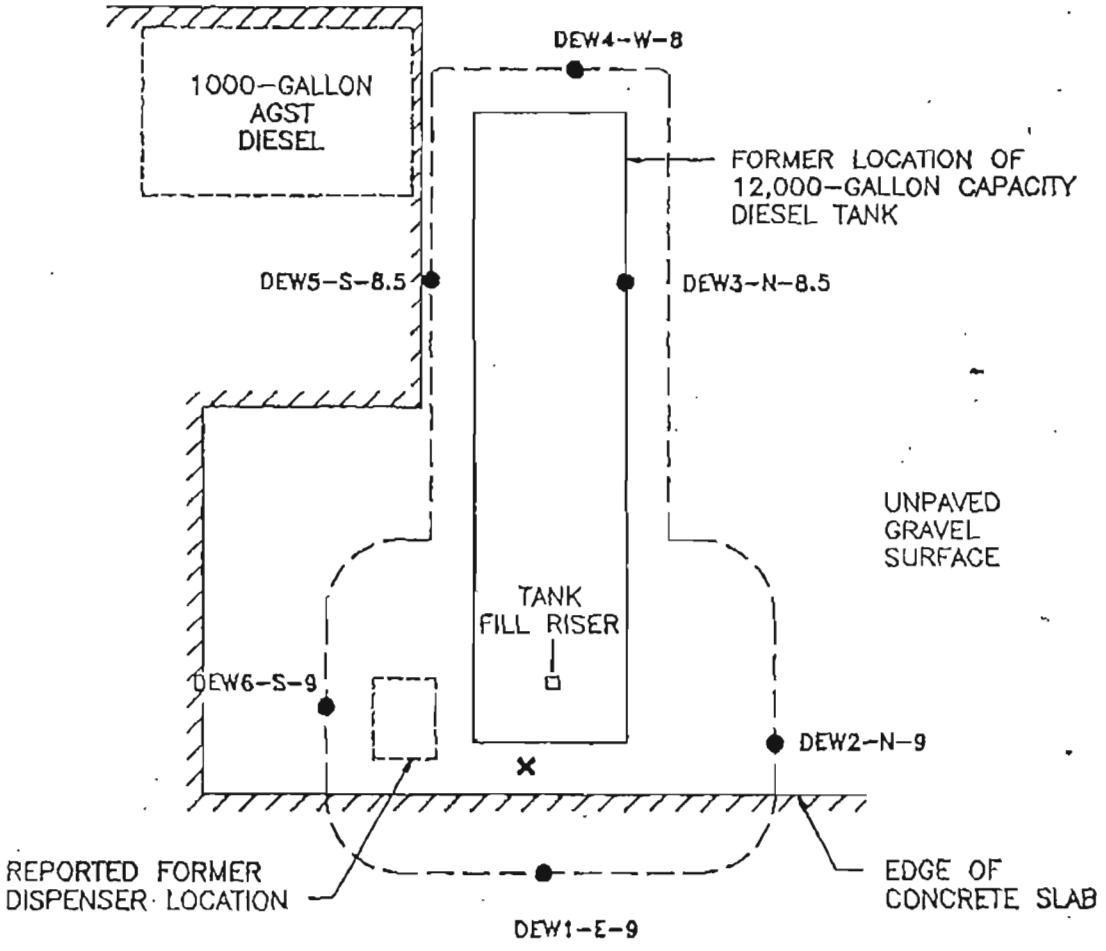
SGI THE SOURCE GROUP, INC.
6647 C VALLEY ROAD
PLEASANT HILL, CA 94523

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

ATTACHMENT 3


SB-1
Depth 5' 10' 20' 28'
TPHg
TPHd
B
T
E
X
SB-4
Depth 10' 15' 20' 24'
TPHg 790 470
TPHd
B
T
E
X
SB-2
Depth 3' 15' 20' 25'
TPHg 1400
TPHd
B
T
E
X
SB-3
Depth 5' 10' 15' 20' 25'
TPHg 1400
TPHd 660
B
T
E
X
SB-5
Depth 5' 10' 20' 25'
TPHg
TPHd 2700
B
T
E
X
SB-9
Depth 10' 15'
TPHg
TPHd 450
B
T
E
X
Former Fuel Dispenser Islands
Former Concrete Pad?
SB-4
SB-3
SB-2
SB-5
SB-1
Approximate location of three 10,000-gallon USTs
SB-9
SB-7
MW-9
SB-8
Finished Goods Storage
SB-8
Depth 15' 20'
TPHg
TPHd
B
T
E
X
0 FEET 20
SCALE
Legend
Boring ID
Depth in feet below ground surface
Total Petroleum Hydrocarbons as Gasoline
Total Petroleum Hydrocarbons as Diesel
Benzene
Toluene
Ethylbenzene
Xylene
SB-2a
Depth 5' 10'
TPHg
TPHd
B
T
E
X
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, 1991, 2006)
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.
SOIL SAMPLE RESULTS - FORMER THREE 10,000-GALLON USTs AREA
ARM FOUNDRY
1605 SAN LEANDRO STREET
OAKLAND, CALIFORNIA
SGI Source Group, Inc.
Date: 1/2008
Figure: 8
All figures.dwg


SB-13
Depth | 5' | 10' | 15' | 25'
TPHg
TPHd
B
T
E
X
SB-14
Depth | 3' | 10' | 15'
TPHg
TPHd
B
T
E
X
SB-15
Depth | 5' | 10' | 15' | 19'
TPHg
TPHd
B
T
E
X
1100
SB-12
Depth | 5' | 10' | 15' | 25'
TPHg
TPHd
B
T
E
X
Former 550-gallon Gasoline UST
Approximate Limits of Excavation
SB-15
SB-14
SB-12
SB-13
MW-4
SB-11
SB-10
Fuel Dispenser
SB-11
Depth | 5' | 10' | 20'
TPHg
TPHd
B
T
E
X
SB-10
Depth | 5' | 10' | 15' | 20' | 25'
TPHg
TPHd
B
T
E
X
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 | 5' | 10'
TPHg
TPHd
B
T
E
X
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.
0 FEET 20
SCALE
SOIL SAMPLE RESULTS - FORMER 550-GALLON GASOLINE UST AREA
ABAI FOUNDRY
7825 SAN LEANDRO STREET
OAKLAND, CALIFORNIA
SGI Source Group, Inc.
Date: 1/20/08
Figure: 9
All figures.dwg



EXPLANATION

- Soil sample location (depth in feet is last number)
- Excavation water sample location

0 5 10 FEET

Figure 2 : PLAN SHOWING FORMER TANK AND SOIL SAMPLE LOCATIONS

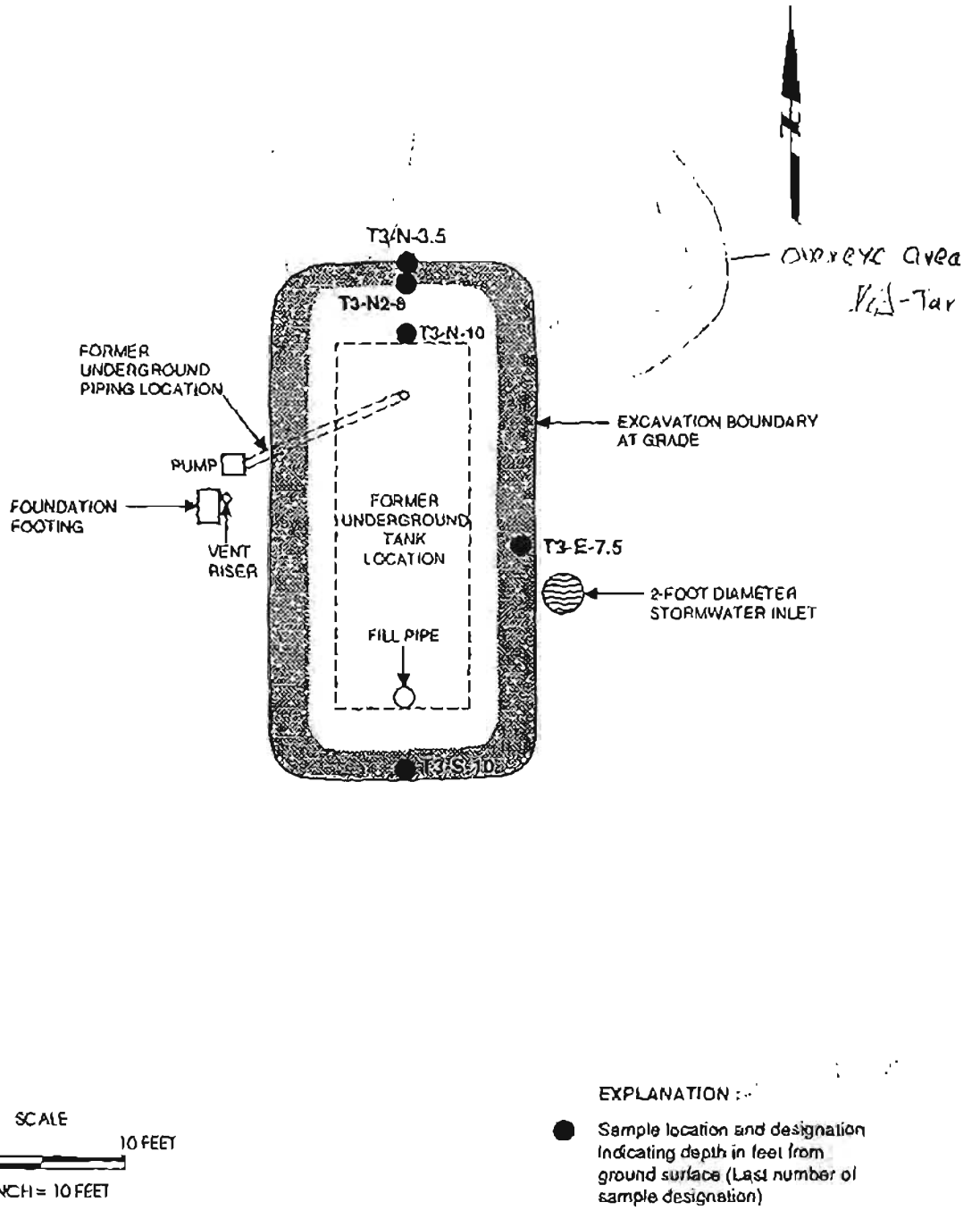
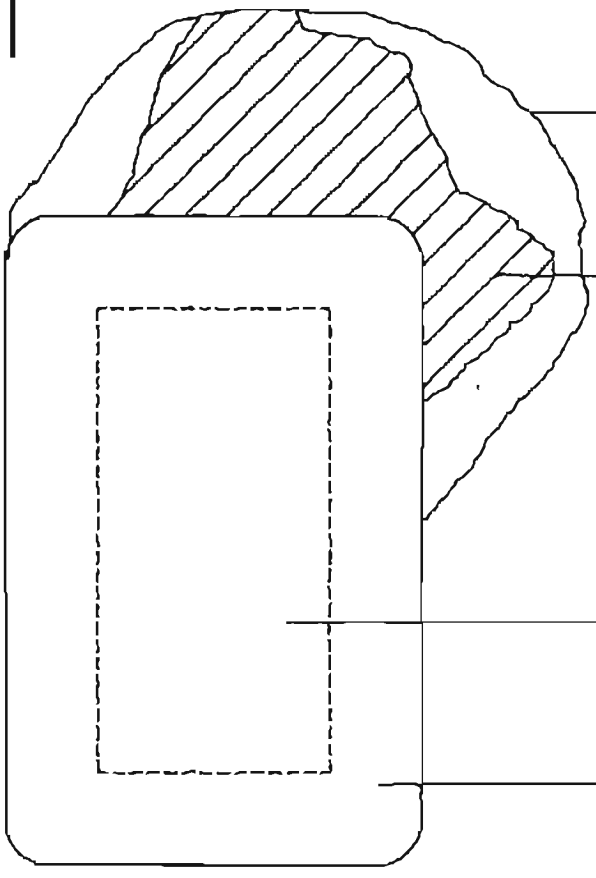


Figure 2 : SITE PLAN SHOWING FORMER 1,1,1-TCA TANK AND SOIL SAMPLE LOCATIONS

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPD

N



AB&I

AMERICAN BRASS & IRON FOUNDRY

7825 San Leandro Street, Oakland, CA 94621

REMOVAL PROJECT UNDERGROUND SOLVENT STORAGE TANK

		DATE 3/3/92	DRAWN JR	DRAWING NO. A-FC-005 REV
NEXT ASSY	USED ON	SCALE NONE	CHECKED	
APPLICATION		FILE NAME: UST	PLOT: 1=4	SHEET 1 OF 1

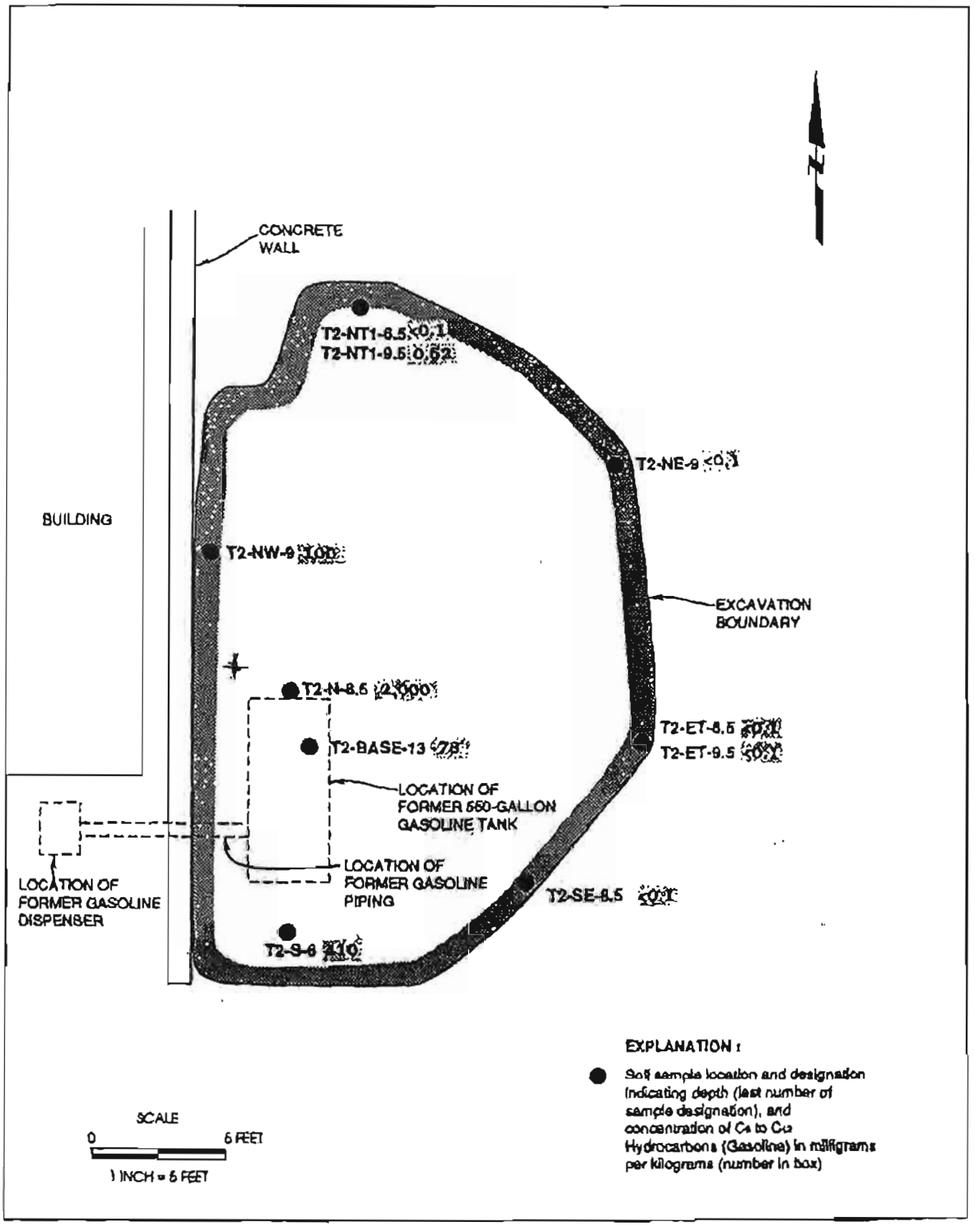


Figure 2 : SITE PLAN SHOWING FORMER TANK LOCATION, EXCAVATION AND SOIL SAMPLE LOCATIONS

8,000-gallon Gasoline

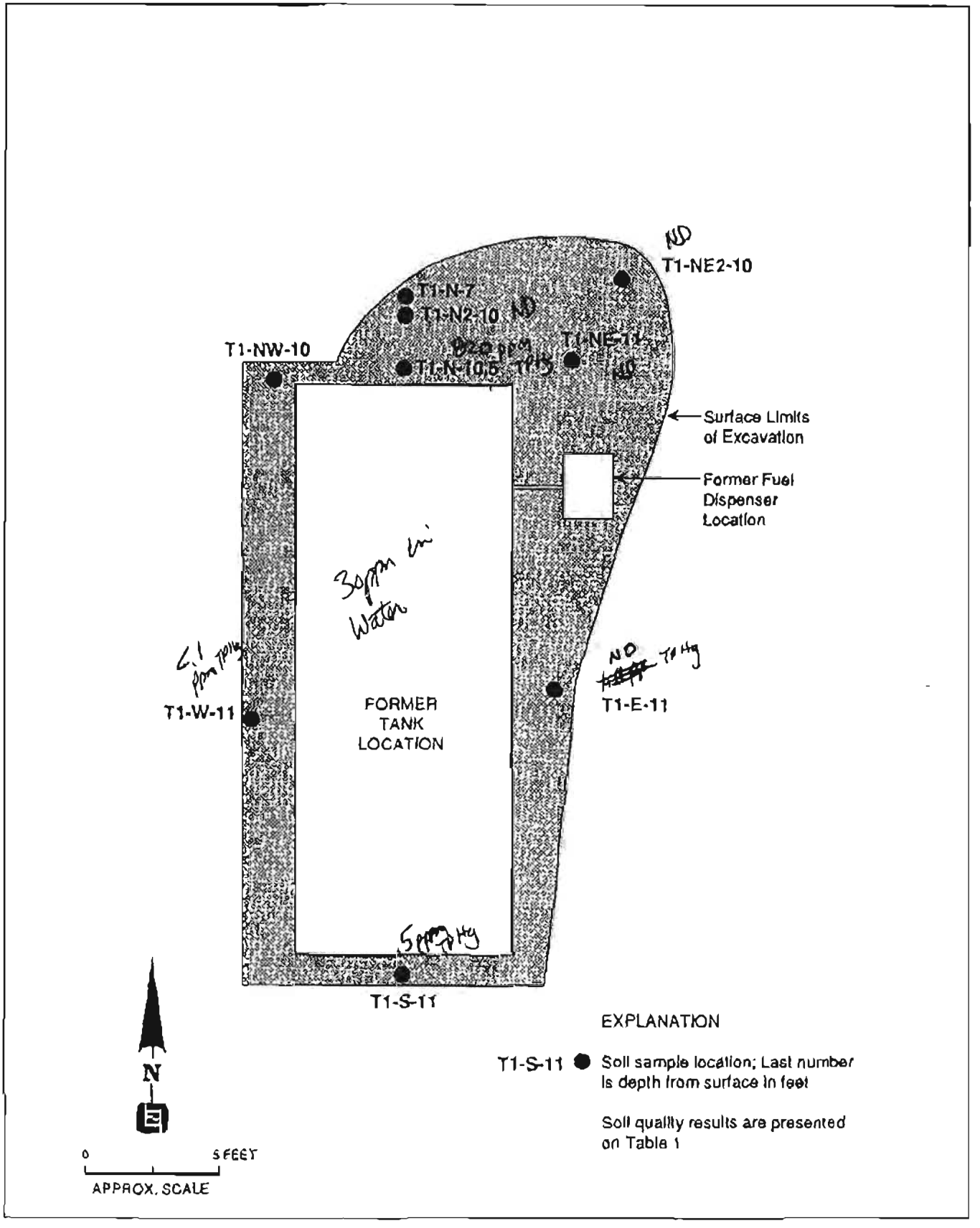
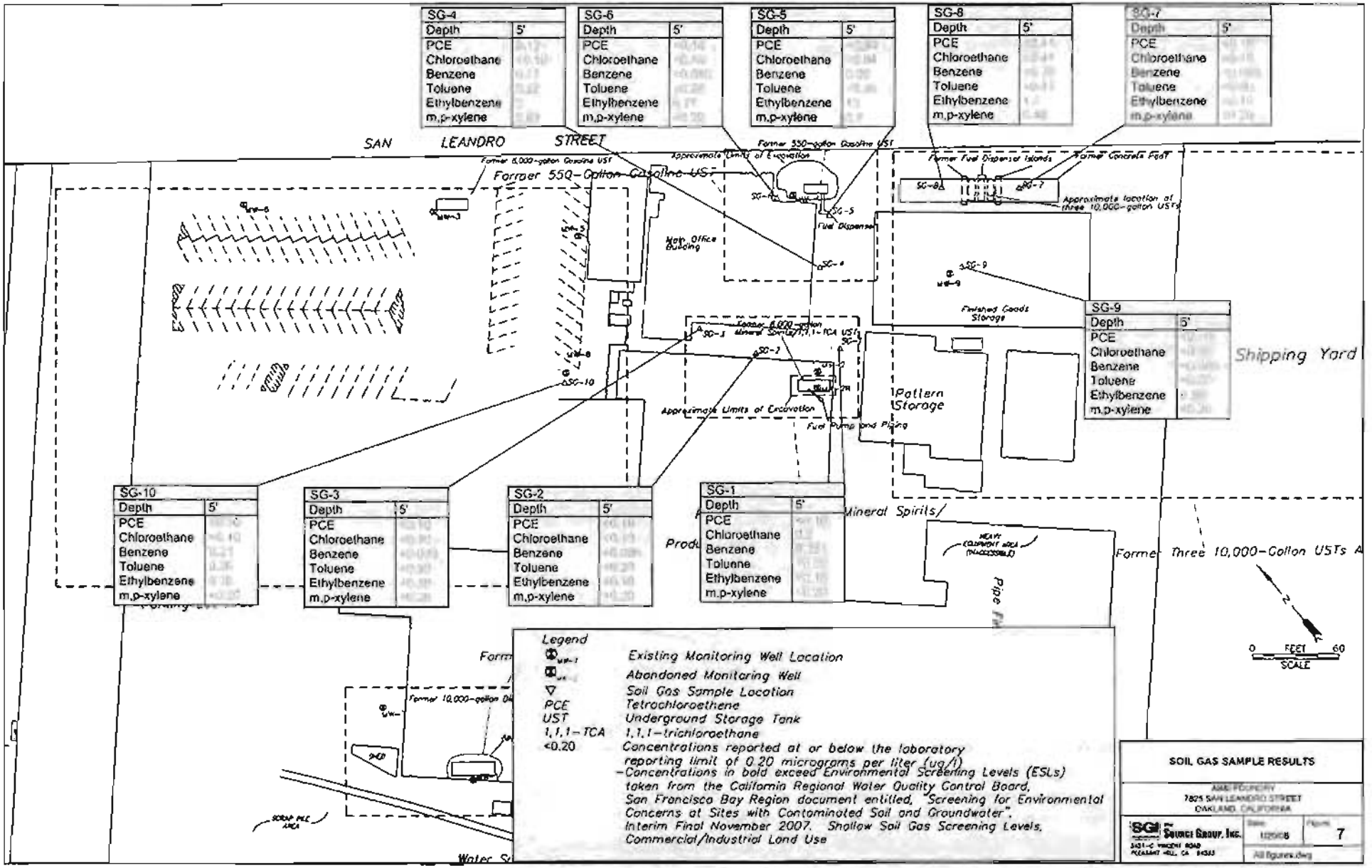
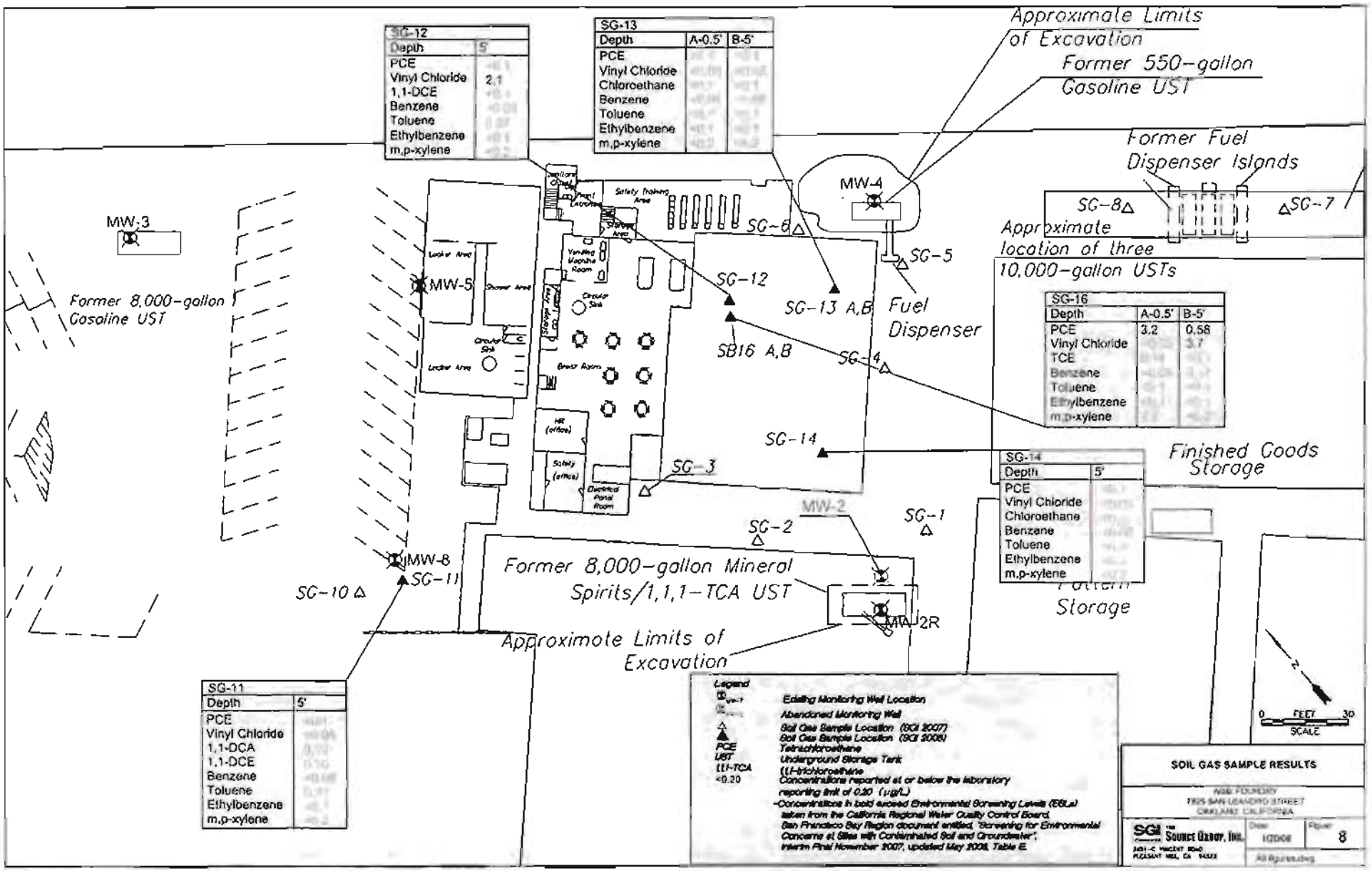
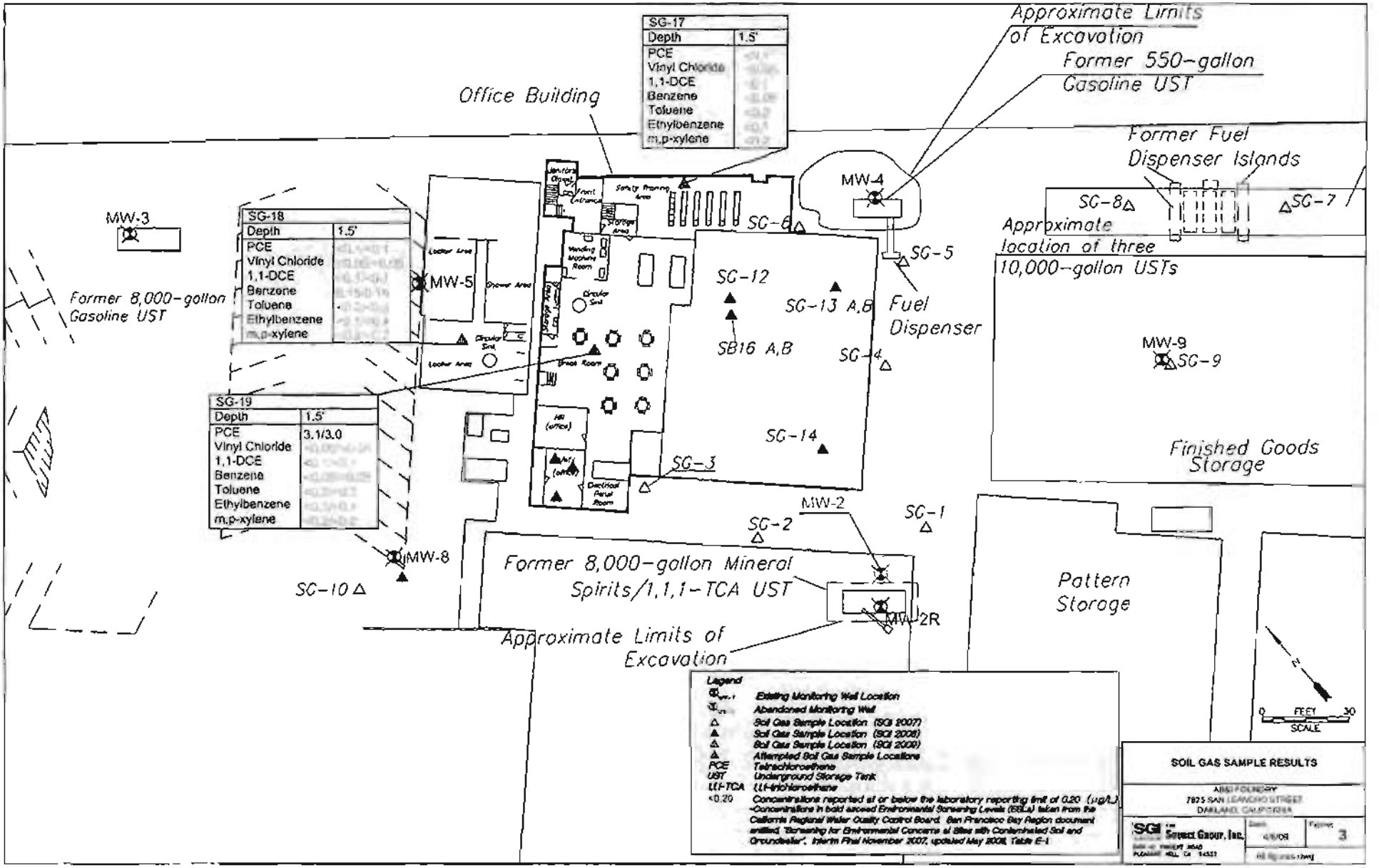
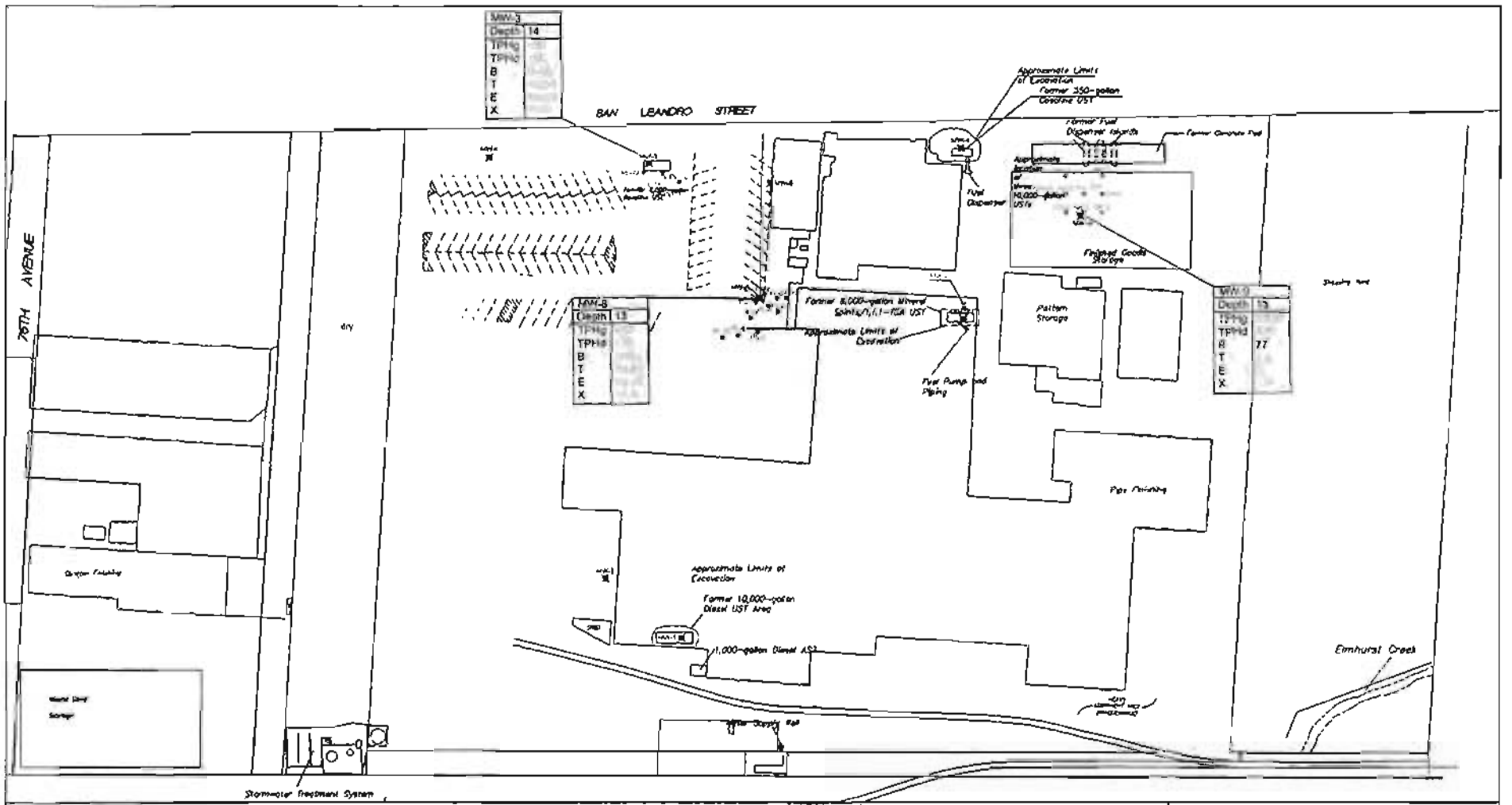


Figure 2: PLAN SHOWING SOIL SAMPLE LOCATIONS


SG-4
Depth 5'
PCE
Chloroethane
Benzene
Toluene
Ethylbenzene
m,p-xylene
SG-6
Depth 5'
PCE
Chloroethane
Benzene
Toluene
Ethylbenzene
m,p-xylene
SG-5
Depth 5'
PCE
Chloroethane
Benzene
Toluene
Ethylbenzene
m,p-xylene
SG-8
Depth 5'
PCE
Chloroethane
Benzene
Toluene
Ethylbenzene
m,p-xylene
SG-7
Depth 5'
PCE
Chloroethane
Benzene
Toluene
Ethylbenzene
m,p-xylene
SAN LEANDRO STREET
Former 550-gallon Gasoline UST
Former Fuel Dispenser Islands
Former Control Post
Approximate location of three 10,000-gallon USTs
Fuel Dispenser
Main Office Building
Finished Goods Storage
Pattern Storage
Shipping Yard
Approximate Limits of Excavation
Fuel Pump and Piping
SG-9
Depth 5'
PCE
Chloroethane
Benzene
Toluene
Ethylbenzene
m,p-xylene
SG-10
Depth 5'
PCE
Chloroethane
Benzene
Toluene
Ethylbenzene
m,p-xylene
SG-3
Depth 5'
PCE
Chloroethane
Benzene
Toluene
Ethylbenzene
m,p-xylene
SG-2
Depth 5'
PCE
Chloroethane
Benzene
Toluene
Ethylbenzene
m,p-xylene
SG-1
Depth 5'
PCE
Chloroethane
Benzene
Toluene
Ethylbenzene
m,p-xylene
Mineral Spirits/
Former Three 10,000-Gallon USTs A
Former 10,000-gallon Oil
Water St
Legend
Existing Monitoring Well Location
Abandoned Monitoring Well
Soil Gas Sample Location
PCE Tetrachloroethene
UST Underground Storage Tank
1,1,1-TCA 1,1,1-trichloroethane
<0.20 Concentrations reported at or below the laboratory reporting limit of 0.20 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. Shallow Soil Gas Screening Levels, Commercial/Industrial Land Use
0 FEET 60
SCALE
SOIL GAS SAMPLE RESULTS
AMF FOUNDRY
7825 SAN LEANDRO STREET
OAKLAND, CALIFORNIA
Source Group, Inc.
7
All figures.dwg


SG-12
Depth 5'
PCE
Vinyl Chloride 2.1
1,1-DCE
Benzene
Toluene
Ethylbenzene
m,p-xylene
SG-13
Depth A-0.5' B-5'
PCE
Vinyl Chloride
Chloroethane
Benzene
Toluene
Ethylbenzene
m,p-xylene
Approximate Limits of Excavation
Former 550-gallon Gasoline UST
Former Fuel Dispenser Islands
MW-4
SG-8
SG-7
Approximate location of three 10,000-gallon USTs
MW-3
Former 8,000-gallon Gasoline UST
MW-5
SG-6
SG-5
SG-12
SG-13 A,B
Fuel Dispenser
SB16 A,B
SG-4
SG-16
Depth A-0.5' B-5'
PCE 3.2 0.58
Vinyl Chloride
TCE 3.7
Benzene
Toluene
Ethylbenzene
m,p-xylene
SG-14
Finished Goods Storage
SG-3
MW-2
SG-1
SG-2
MW-8
SG-11
SG-10
Former 8,000-gallon Mineral Spirits/1,1,1-TCA UST
MW-2R
Approximate Limits of Excavation
SG-14
Depth 5'
PCE
Vinyl Chloride
Chloroethane
Benzene
Toluene
Ethylbenzene
m,p-xylene
Pattern Storage
SG-11
Depth 5'
PCE
Vinyl Chloride
1,1-DCA
1,1-DCE
Benzene
Toluene
Ethylbenzene
m,p-xylene
Legend
Existing Monitoring Well Location
Abandoned Monitoring Well
Soil Gas Sample Location (SGI 2007)
Soil Gas Sample Location (SGI 2008)
PCE Tetrachloroethene
UST Underground Storage Tank
(1,1,1-TCA 1,1,1-trichloroethane
<0.20 Concentrations reported at or below the laboratory reporting limit of 0.20 (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, updated May 2008, Table E.
N
0 FEET 30
SCALE
SOIL GAS SAMPLE RESULTS
SGI Source Group, Inc.
Date 10/08
Figure 8


SG-17
Depth 1.5'
PCE
Vinyl Chloride
1,1-DCE
Benzene
Toluene
Ethylbenzene
m,p-xylene
Approximate Limits of Excavation
Former 550-gallon Gasoline UST
Office Building
Former Fuel Dispenser Islands
MW-4
MW-3
SG-18
Depth 1.5'
PCE
Vinyl Chloride
1,1-DCE
Benzene
Toluene
Ethylbenzene
m,p-xylene
SG-6
SG-8
SG-7
SG-5
Approximate location of three 10,000-gallon USTs
MW-5
SG-12
SG-13 A,B
Fuel Dispenser
Former 8,000-gallon Gasoline UST
SB16 A,B
SG-4
MW-9
SG-9
SG-19
Depth 1.5'
PCE 3.1/3.0
Vinyl Chloride
1,1-DCE
Benzene
Toluene
Ethylbenzene
m,p-xylene
SG-14
Finished Goods Storage
SG-3
MW-2
SG-1
SG-2
MW-8
SG-10
Former 8,000-gallon Mineral Spirits/1,1,1-TCA UST
Pattern Storage
MW-2R
Approximate Limits of Excavation
Legend
Existing Monitoring Well Location
Abandoned Monitoring Well
Soil Gas Sample Location (SGI 2007)
Soil Gas Sample Location (SGI 2008)
Soil Gas Sample Location (SGI 2009)
Attempted Soil Gas Sample Locations
PCE Tetrachloroethene
UST Underground Storage Tank
1,1,1-TCA 1,1,1-trichloroethane
<0.20 Concentrations reported at or below the laboratory reporting limit of 0.20 (µg/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, updated May 2008, Table E-1
0 FEET 30
SCALE
SOIL GAS SAMPLE RESULTS
7825 SAN LEANDRO STREET
OAKLAND, CALIFORNIA
SGI
SOMERS GROUP, INC.
3



LEGEND

MW-1	Sampling 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	Xylenes
<0.5	Not Detected at or above the laboratory Practical Quantitation Limit (PQL) of <0.50 ug/L

1200 Reported TPHg concentrations indicate chlorinated solvents in the gasoline range.

Existing Monitoring Well Location (BSK, 1995, 2000)

Abandoned Monitoring Well (BSK, 2008)

June 2009 EAR Injection Location

June 2009 EAB Injection Location

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

AB&I FOUNDRY
7825 SAN LEANDRO STREET
OAKLAND, CALIFORNIA

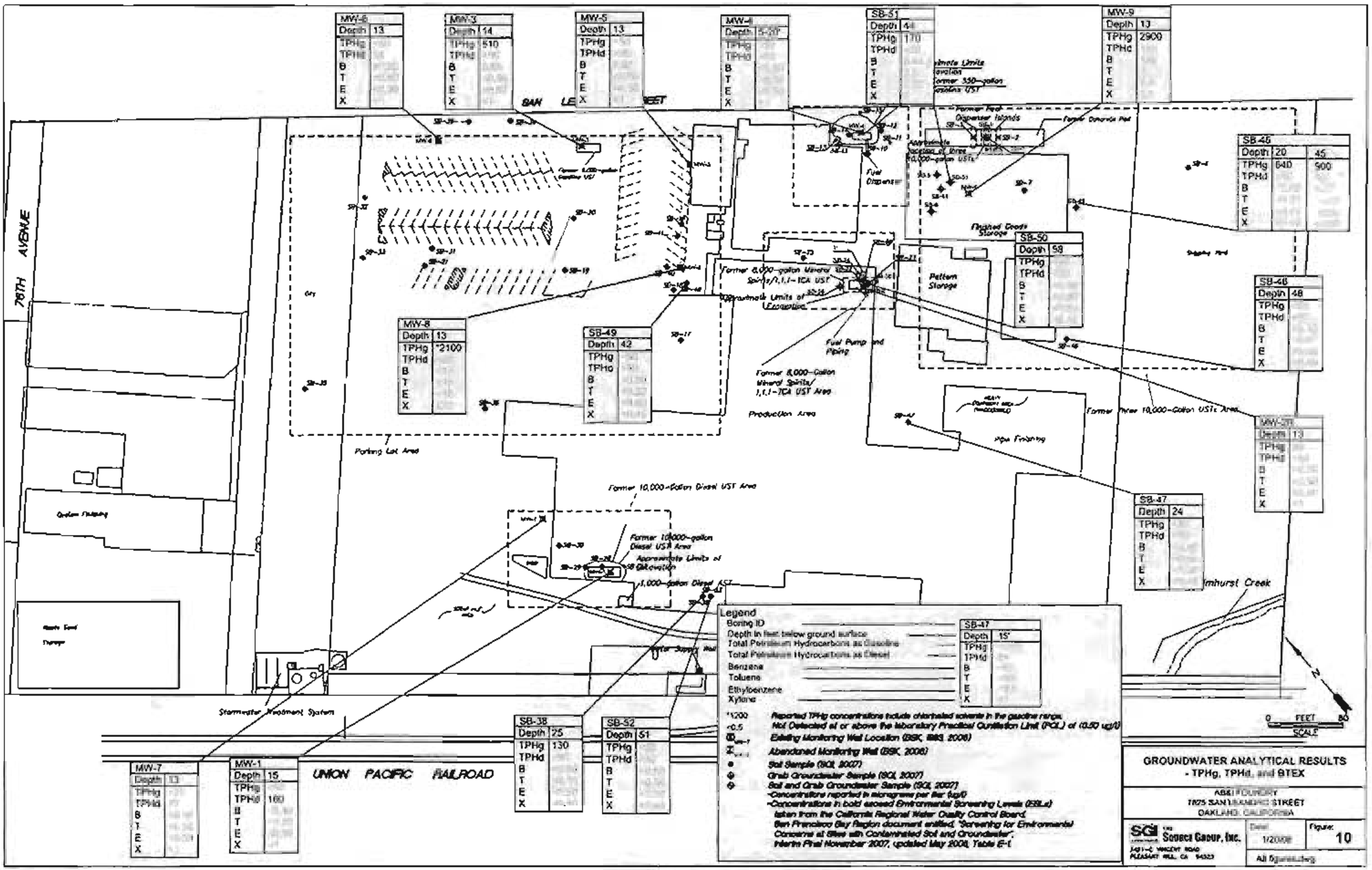
PROJECT NO.	DATE	DRAWN BY	APP. BY
01-AB1F001	01/2/2010	ZA	AD

0 80 160
HORIZONTAL SCALE IN FEET

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

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

FIGURE
4



MW-6
Depth 13
MW-3
Depth 14
TPHg 510
MW-5
Depth 13
SB-51
Depth 44
TPHg 170
MW-9
Depth 13
TPHg 2900
SB-45
Depth 20 45
TPHg 640 900
SB-50
Depth 58
SB-46
Depth 48
MW-8
Depth 13
TPHg *2100
SB-49
Depth 42
SB-47
Depth 24
SB-38
Depth 25
TPHg 130
SB-52
Depth 51
MW-7
Depth 13
MW-1
Depth 15
TPHd 160
78TH AVENUE
UNION PACIFIC RAILROAD
Parking Lot Area
Production Area
Pattern Storage
Finished Goods Storage
Pipe Finishing
Fuel Dispenser
Fuel Pump and Piping
Former 8,000-Gallon Mineral Spirits/1,1,1-TCA UST Area
Former Three 10,000-Gallon USTs Area
Former 10,000-Gallon Diesel UST Area
Stormwater Treatment System
Elmhurst Creek
Legend
Boring ID
Depth in feet below ground surface
Total Petroleum Hydrocarbons as Gasoline
Total Petroleum Hydrocarbons as Diesel
Benzene
Toluene
Ethylbenzene
Xylene
*1200 Reported TPHg concentrations include chlorinated solvents in the gasoline range.
<0.5 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)
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, updated May 2008, Table F-1
GROUNDWATER ANALYTICAL RESULTS - TPHg, TPHd, and BTEX
AB&I FOUNDRY
7825 SAN LEANDRO STREET
OAKLAND, CALIFORNIA
SGI The Source Group, Inc.
Figure: 10

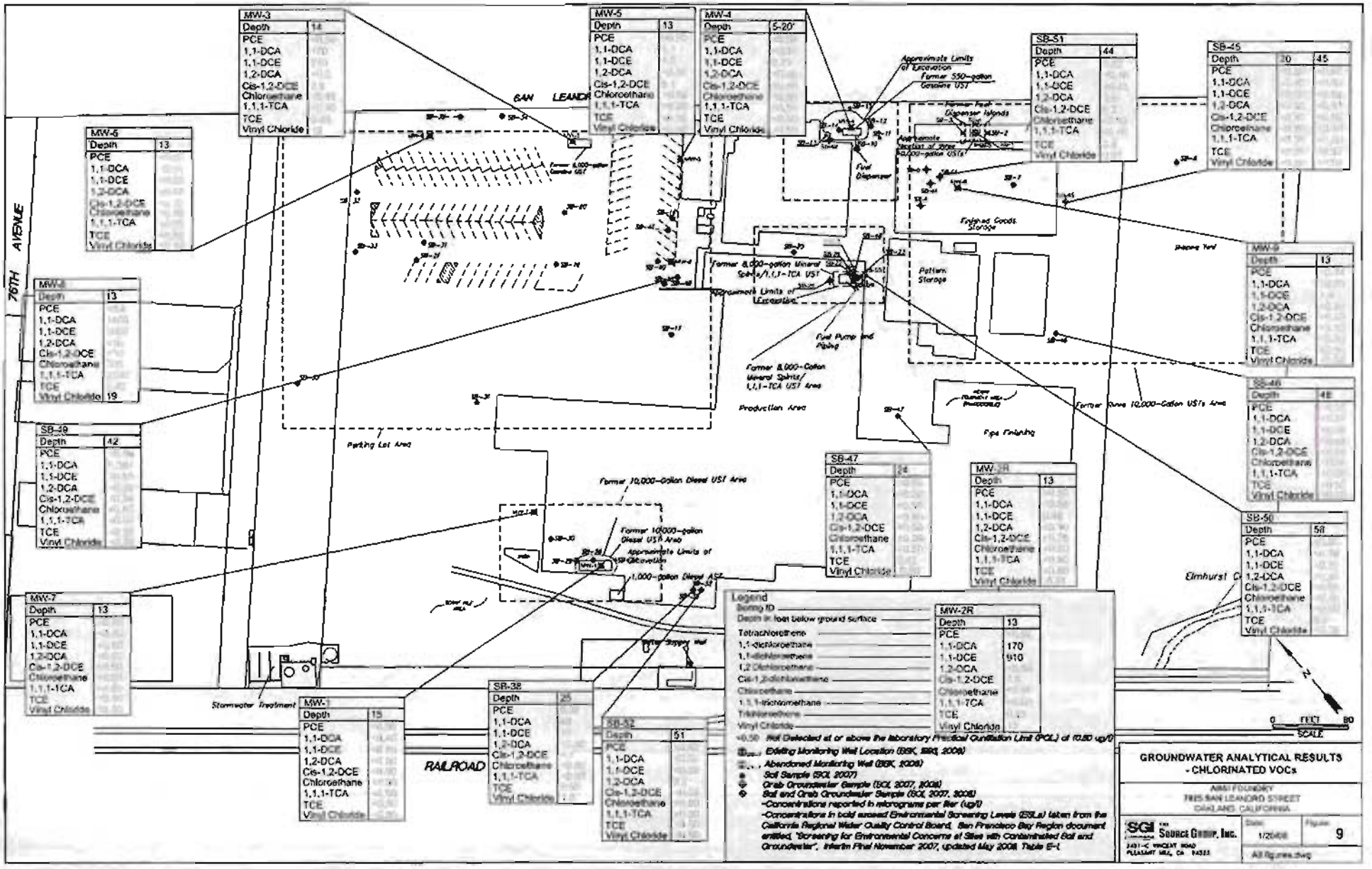

MW-3
Depth 14
PCE
1,1-DCA
1,1-DCE
1,2-DCA
Cis-1,2-DCE
Chloroethane
1,1,1-TCA
TCE
Vinyl Chloride
MW-5
Depth 13
PCE
1,1-DCA
1,1-DCE
1,2-DCA
Cis-1,2-DCE
Chloroethane
1,1,1-TCA
TCE
Vinyl Chloride
MW-4
Depth 5-20'
PCE
1,1-DCA
1,1-DCE
1,2-DCA
Cis-1,2-DCE
Chloroethane
1,1,1-TCA
TCE
Vinyl Chloride
SB-51
Depth 44
PCE
1,1-DCA
1,1-DCE
1,2-DCA
Cis-1,2-DCE
Chloroethane
1,1,1-TCA
TCE
Vinyl Chloride
SB-45
Depth 10 45
PCE
1,1-DCA
1,1-DCE
1,2-DCA
Cis-1,2-DCE
Chloroethane
1,1,1-TCA
TCE
Vinyl Chloride
MW-6
Depth 13
PCE
1,1-DCA
1,1-DCE
1,2-DCA
Cis-1,2-DCE
Chloroethane
1,1,1-TCA
TCE
Vinyl Chloride
MW-8
Depth 13
PCE
1,1-DCA
1,1-DCE
1,2-DCA
Cis-1,2-DCE
Chloroethane
1,1,1-TCA
TCE
Vinyl Chloride 19
MW-9
Depth 13
PCE
1,1-DCA
1,1-DCE
1,2-DCA
Cis-1,2-DCE
Chloroethane
1,1,1-TCA
TCE
Vinyl Chloride
SB-46
Depth 48
PCE
1,1-DCA
1,1-DCE
1,2-DCA
Cis-1,2-DCE
Chloroethane
1,1,1-TCA
TCE
Vinyl Chloride
SB-49
Depth 42
PCE
1,1-DCA
1,1-DCE
1,2-DCA
Cis-1,2-DCE
Chloroethane
1,1,1-TCA
TCE
Vinyl Chloride
SB-47
Depth 34
PCE
1,1-DCA
1,1-DCE
1,2-DCA
Cis-1,2-DCE
Chloroethane
1,1,1-TCA
TCE
Vinyl Chloride
MW-2R
Depth 13
PCE
1,1-DCA
1,1-DCE
1,2-DCA
Cis-1,2-DCE
Chloroethane
1,1,1-TCA
TCE
Vinyl Chloride
SB-50
Depth 58
PCE
1,1-DCA
1,1-DCE
1,2-DCA
Cis-1,2-DCE
Chloroethane
1,1,1-TCA
TCE
Vinyl Chloride
MW-7
Depth 13
PCE
1,1-DCA
1,1-DCE
1,2-DCA
Cis-1,2-DCE
Chloroethane
1,1,1-TCA
TCE
Vinyl Chloride
MW-1
Depth 15
PCE
1,1-DCA
1,1-DCE
1,2-DCA
Cis-1,2-DCE
Chloroethane
1,1,1-TCA
TCE
Vinyl Chloride
SB-38
Depth 25
PCE
1,1-DCA
1,1-DCE
1,2-DCA
Cis-1,2-DCE
Chloroethane
1,1,1-TCA
TCE
Vinyl Chloride
SB-52
Depth 51
PCE
1,1-DCA
1,1-DCE
1,2-DCA
Cis-1,2-DCE
Chloroethane
1,1,1-TCA
TCE
Vinyl Chloride
76TH AVENUE
SAN LEANDRO
RAILROAD
Former 8,000-gallon Gasoline UST
Former 8,000-gallon Mineral Spirits/1,1,1-TCA UST
Approximate Limits of Excavation
Former 550-gallon Gasoline UST
Former Fuel Dispenser Islands
Approximate Location of Three 10,000-gallon USTs
Fuel Dispenser
Fuel Pump and Piping
Former 8,000-Gallon Mineral Spirits/1,1,1-TCA UST Area
Former 10,000-Gallon Diesel UST Area
Former 10,000-gallon Diesel UST Area
1,000-gallon Diesel AST
Former Three 10,000-Gallon USTs Area
Production Area
Parking Lot Area
Pattern Storage
Finished Goods Storage
Pipe Finishing
Shipping Yard
Stormwater Treatment
Elmhurst Creek
Legend
Boring ID
Depth in feet below ground surface
Tetrachloroethene
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
Cis-1,2-dichloroethene
Chloroethane
1,1,1-trichloroethane
Trichloroethene
Vinyl Chloride
<0.50 Not Detected at or above the laboratory Practical Quantitation Limit (PQL) of (0.50 ug/l)
Existing Monitoring Well Location (BK, SEG, 2008)
Abandoned Monitoring Well (BK, 2008)
Soil Sample (SGI, 2007)
Grab Groundwater Sample (SGI, 2007, 2008)
Soil and Grab Groundwater Sample (SGI, 2007, 2008)
-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, updated May 2008 Table E-1
MW-2R
Depth 13
PCE
1,1-DCA 170
1,1-DCE 910
1,2-DCA
Cis-1,2-DCE
Chloroethane
1,1,1-TCA
TCE
Vinyl Chloride
0 FEET 80
SCALE
GROUNDWATER ANALYTICAL RESULTS
- CHLORINATED VOCs
AMF FOUNDRY
7185 SAN LEANDRO STREET
OAKLAND, CALIFORNIA
SGI THE SOURCE GROUP, INC.
2401-C VINCENT ROAD
PLEASANT HILL, CA 94523
Date 1/2008
Figure 9
All figures.dwg

Table 3
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
SB-12-05	5	11/1/2007	<0.02	NA	NA	NA	<0.00028	<0.00028	<0.00019	<0.00057

ATTACHMENT 4

Table 3
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-12-10	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 3
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
(mg/kg) - milligrams per kilogram
TPHg - Total Petroleum Hydrocarbons as Gasoline
TPHd - Total Petroleum Hydrocarbons as Diesel
<0.005 - Not reported at or above laboratory's reporting limit of 0.005 mg/kg
UST - underground storage tank
1,1,1-TCA - 1,1,1-Trichloroethane

-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 4
Summary of Soil Sample Results - PAHs
AB&I Foundry
7825 San Leandro Street
Oakland, California

Sample ID	Depth	Date	Naph-thalene	Acenaphtene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo[a]anthracene	Chrysene	Benzo(b)fluoranthene	Benzo[K]fluoranthene	Benzo[a]pyrene	Indeno[1,2,3-cd]pyrene	Benzo[g,h,i]perylene	2-Methylnaphtalene	Dibenz(1,h)anthracene
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)
RWQCB ESLs	Residential		1.3	160	410	40	40	40	500	0.38	40	0.38	0.38	0.038	0.62	35	12	0.062
	Commercial		2.8	160	1000	40	40	40	1000	1.3	40	1.3	1.3	0.13	2.1	35	12	0.21
Former 8,000-Gallon Mineral Spirits/ 1,1,1-TCA UST																		
SB-26-4	4	11/2/2007	2100	1300	1300	4500	1300	3100	2400	1100	1300	1000	450	960	460	380	630	140
SB-26-10	10	11/2/2007	0.78	0.65	0.57	2.0	0.42	1.2	0.92	0.38	0.26	0.29	0.090	0.23	0.10	0.084	0.32	<0.067
SB-26-15	15	11/2/2007	<0.067	<0.067	<0.067	0.15	<0.067	0.12	0.085	<0.33	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067

Notes:
(mg/Kg) -milligrams per kilogram
<0.067 - Not reported at or above laboratory's reporting limit of 0.067 mg/kg
-Polycyclic Aromatic Hydrocarbons (PAHs) analyzed using EPA Method 8270C by Test America 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)

Table 3
Summary of Soil Sample Results - Organics
AB&I Foundry
7825 San Leandro Street
Oakland, California

Sample ID	Depth	Date	TPHg	TPHd	Benzene	Isopropylbenzene	n-butylbenzene	sec-butylbenzene
Units	(feet)		(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
RWQCB ESLs	Residential		180	180	2	NE	NE	NE
	Commercial		180	180	2	NE	NE	NE
Former Three 10,000-Gallon USTs								
SB-44-15	15	7/11/2008	150	**580**	0.11	0.45	0.47	0.27
SB-44-25	25	7/11/2008	0.22	1.1	<1.0	<0.80	<0.78	<0.68
SB-45-5	5	7/10/2008	<1.0	<1.0	<5.0	<5.0	<5.0	<5.0
SB-45-15	15	7/10/2008	66	<1.0	<250	<250	<250	<250
SB-45-20	20	7/10/2008	**360**	<1.0	<250	<250	0.25	<250
Former 550-Gallon Gasoline UST								
SB-42-40	40	7/9/2008	<1.0	<1.0	<5.0	<5.0	<5.0	<5.0

Notes:

(mg/kg) - all concentrations expressed in milligrams per kilogram (mg/Kg)

TPHg - Total Petroleum Hydrocarbons as Gasoline

TPHd - Total Petroleum Hydrocarbons as Diesel

-VOCs analyzed using EPA Method 8260B by Advanced Technology Laboratories (ATL), Signal Hill, California

-TPHg and TPHd analyzed using EPA Method 8015M with silica gel cleanup by Advanced Technology Laboratories (ATL), Signall Hill, 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, updated May 2008, Residential and Commercial/Industrial land use.

-Concentrations in bold exceed commercial ESLs for deep soil (greater than 3 meters).

Table 1
Summary of Analytical Results
Monitoring Well Soil Samples (mg/kg)
February 1993

Well ID	Depth (feet)	Total Oil & Grease	Hydrocarbon Oil & Grease	Total Organic Lead	TPH-Diesel	TPH-Gasoline	Benzene	Toluene	Ethyl-benzene	Xylenes
MW-1	11	-	-	-	34	ND	ND	ND	ND	ND
MW-2	10.5	3,500	3,500	-	140	63	ND	0.039	ND	0.008
MW-3	10	-	-	-	-	ND	ND	ND	ND	ND
MW-4	14.5	-	-	0.6	-	2,100	ND	ND	ND	ND
MW-4	25.5	-	-	ND	-	ND	ND	ND	ND	ND

Notes:

ND: Not detected above laboratory reportable detection limit.

B: Not analyzed.

TABLE 2

SOIL- AND WATER-QUALITY RESULTS
AMERICAN BRASS AND IRON FOUNDRY
8,000 GALLON 1,1,1,-TCA TANK REMOVAL
7825 SAN LEANDRO STREET
OAKLAND, CALIFORNIA

			Petroleum Hydrocarbons						EPA 8010 Analytes			
Sample Number	Date Collected	Depth (feet)	TPH as* Gasoline	TPH as** Diesel	Benzene	Toluene	Ethyl-benzene	Xylenes	1,1,1,-Tri-chloroethane	1,1- Di-chloroethane	1,1 Di-chloroethene	Chloro-ethane
Soil Samples (results in milligrams per kilogram [mg/kg])									PRG ind mg/kg 3000	3900	.082	2200
T3-N-10	04-Oct-91	10	500	34	<2	<2	3	6	<0.1	<0.1	<0.1	<0.1
T3-N2-8	04-Oct-91	8	0.6	<1	<0.005	<0.005	0.015	0.6	----	----	----	----
T3-S-10	04-Oct-91	10	----	----	----	----	----	----	0.14	0.05	<0.01	<0.01
T3-SP-1	04-Oct-91	1	13	7	<0.02	<0.02	0.12	0.39	1.30	0.50	0.06	0.67
T3-SP-2	04-Oct-91	2	18	8	<0.02	<0.02	0.16	0.34	0.19	0.23	0.02	1.10
T3-E-7.5	04-Oct-91	7.5	<0.1	<1	<0.005	<0.005	<0.005	<0.005	0.02	0.03	<0.01	0.33
Water Samples (results in milligrams per liter [mg/l])												
T3-GRAB	04-Oct-91		11.000	----	0.130	0.310	0.260	2.200	22.000	4.900	<.100	7.000

NOTES:

All samples were analyzed by BC Anayltical Laboratory, Emeryville, California (BCA).

TPH = Total Petroleum Hydrocarbons

* TPH as gesoline is reported by BC Analytical Laboratory as C6 to C12 Hydrocarbons

** TPH as diesel is reported by BC Analytical Laboratory as C[illegible] to C[illegible] Hydrocarbons

12 25

---- Samples were not analyzed for the above analytes.

< Concentrations below laboratory detection limits.

No other EPA 8010 analytes were detected in these samples.

Samples T3-SP-1 and T3-SP-2 were collected from a stockpile of soils around the tank.

TABLE 1

Soil and Water Quality Results
American Brass & Iron Foundry
12,000 Gallon Diesel Tank Removal
7825 San Leandro Street
Oakland, CA

Sample Number	Date Collected	Depth (feet)	Extractable Hydrocarbons as Diesel (mg/kg)	BTEX (Soil Matrix) Method EPA 8020 Benzene	Toluene	Ethylbenzene	Xylenes, Total
Soil Samples (results in milligrams per kilogram [mg/kg])							
DEW 1-S-9	6-5-92	9	ND	ND	ND	ND	ND
DEW 2-N-9	6-5-92	9	ND	ND	ND	ND	ND
DEW 3-N-8.5	6-5-92	8.5	ND	-	-	-	-
DEW 4-W-8	6-5-92	8	ND	ND	ND	ND	ND
DEW 5-S-8.5	6-5-92	8.5	ND	-	-	-	-
DEW 6-S-9	6-5-92	9	2	ND	ND	ND	ND
Water Samples (results in milligrams per liter [mg/l])							
D-Groundwater	6-5-92	10	6.8	ND	ND	ND	ND

NOTES:

All samples were analyzed by Quanteo Laboratories.

TABLE 1

SOIL QUALITY RESULTS
550-GALLON UNDERGROUND GASOLINE TANK REMOVAL
AMERICAN BRASS AND IRON FOUNDRY
7825 SAN LEANDRO STREET
OAKLAND, CALIFORNIA
(all results in milligrams per kilogram (mg/kg))

Sample Number	Date Collected	Depth (feet)	TPH as* Gasoline	Benzene	Toluene	Ethyl-benzene	Xylenes	Organic Lead
T2-W-8.5**	26-Aug-91	8.5	2000	<2	8	15	81	<1
T2-S-6**	26-Aug-91	6	410	<2	3	14	15	<1
T2-NT1-6.5	04-Sep-91	6.5	<0.1	<0.005	<0.005	0.010	0.006	----
T2-NT1-9.5	04-Sep-91	9.5	0.52	<0.005	0.011	0.029	0.060	----
T2-ET-6.5	04-Sep-91	6.5	<0.1	<0.005	<0.005	<0.005	<0.005	----
T2-ET-9.5	04-Sep-91	9.5	<0.1	<0.005	<0.005	0.009	0.014	----
T2-SE-8.5	12-Sep-91	8.5	0.1	<0.005	<0.005	0.027	0.019	----
T2-NE-9	12-Sep-91	9	<0.1	<0.005	<0.005	0.013	0.012	----
T2-BASE-13	12-Sep-91	13	78	<0.05	0.21	0.2	3.3	----
T2-NW-9	12-Sep-91	9	100	<0.05	0.52	3.1	3.1	----
SP2-N	27-Sep-91	1	0.3	<0.005	<0.005	0.010	0.012	----
SP2-S	27-Sep-91	1	<0.1	<0.005	<0.005	<0.005	<0.005	----

NOTES:
All samples were analyzed by BC Analytical Laboratory, Emeryville, California.

Samples SP2-N and SP2-S were post-aeration stockpile samples from soil excavated around the tank. The depth refers to the depth from the top of the stockpile.

Static ground water was not encountered.

TPH - Total Petroleum Hydrocarbons
* - TPH as gasoline is reported by BC Analytical Laboratory as C6 to C12 hydrocarbons.
** - These samples do not represent existing native soils due to re-excavation
---- - Not analyzed

TABLE 1A - SOIL RESULTS

BENZENE, TOLUENE, ETHYLBENZENE AND XYLENES
Results in Parts Per Million (ppm)

	CONSTITUENTS			
Sample Location	Benzene	Toluene	Ethylbenzene	Xylenes
MW-1 at 11'	ND	ND	ND	ND
MW-2 at 10.5'	ND	0.039	ND	0.008
MW-3 at 10'	ND	ND	ND	ND
MW-4 at 14.5'	6.6	4.1	7.0	17
MW-4 at 25.5'	ND	ND	ND	ND

ND - None Detected

TABLE 1B - SOIL RESULTS

TOTAL PETROLEUM HYDROCARBONS (TPH) AS GASOLINE AND DIESEL, TOTAL AND HYDROCARBON OIL AND GREASE, TOTAL ORGANIC LEAD, AND VOLATILE HALOCARBONS
Results in Parts Per Million (ppm)

	CONSTITUENTS					
Sample Location	TPH Gasoline	TPH Diesel	Total Oil & Grease	Hydrocarbon Oil & Grease	Total Organic Lead	Volatile Halocarbons
MW-1, 11'	ND	34	--	--	--	--
MW-2, 10.5'	63	140	3500	3500	--	--
MW-3, 10'	ND	--	--	--	--	--
MW-4, 14.5'	2100	--	--	--	0.6	--
MW-4, 25.5'	ND	--	--	--	ND	--

ND - None Detected
-- - Not Tested

TABLE 1

SOIL- AND WATER-QUALITY RESULTS
8,000-GALLON UNDERGROUND GASOLINE TANK REMOVAL
AMERICAN BRASS & IRON FOUNDRY
7825 SAN LEANDRO STREET
OAKLAND, CALIFORNIA

Sample Number	Date Collected	Depth (feet)	TPH as Gasoline **	Benzene	Toluene	Ethyl-benzene	Xylenes
Soil Samples (results in milligrams per kilogram [mg/kg])							
T1-N-10.5 *	08-Aug-91	10.5	820	<13	<13	40	120
T1-S-11	08-Aug-91	11	0.5	<0.005	<0.005	0.018	0.06
T1-W-11	08-Aug-91	11	<0.1	<0.005	<0.005	<0.005	<0.005
T1-NE-11 *	08-Aug-91	11	1.8	0.11	0.01	0.19	0.11
T1-E-11	19-Aug-91	11	<0.1	<0.005	<0.005	<0.005	<0.005
T1-N2-10	19-Aug-91	10	<0.1	<0.005	<0.005	<0.005	<0.005
T1-NE2-10	19-Aug-91	10	<0.1	<0.005	<0.005	<0.005	<0.005
T1-N-7	26-Aug-91	7	<0.1	<0.005	<0.005	<0.005	<0.005
T1-NW-10	26-Aug-91	10	<0.1	<0.005	<0.005	<0.005	<0.005
T2-SP-W	12-Sep-91	---	<0.1	<0.005	<0.005	<0.005	<0.005
T2-SP-W	12-Sep-91	---	0.70	<0.02	<0.02	<0.02	<0.02
Water Samples (results in milligrams per liter [mg/l])							
T1-WATER *	08-Aug-91	-	30.000	0.310	0.260	2.300	14.000
Pit Water	20-Aug-91	-	0.150	0.0032	0.0026	0.0062	0.026

NOTES:

All samples were analyzed by BC Anaylitical Laboratory, Emeryville, California.

Excavation depth to water was 10.5 feet on August 8, 1991, and 9.5 feet on August 20, 1991.

Samples T2-SP-W and T2-SP-E were post-aeration stockpile samples from soil excavated around the tank.

TPH = Total Petroleum Hydrocarbons

* These samples do not represent existing native soils and ground water due to re-excavation and ground-water pumping.

** TPH as gasoline is reported by BC Analytical Laboratory as C6 to C12 hydrocarbons.

Table 5
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	0.36	760	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	180	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	38	<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	4.5	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 2
Summary of Soil Gas Sample Results
AB&I Foundry
7825 San Leandro Street
Oakland, California

Sample ID	Depth	Sample Matrix	PCE	Chloroethane	Benzene	Toluene	Ethylbenzene	m,p-xylene
Units	(feet)		(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)
RWQCB ESLs	Residential		0.41	21	0.084	63	210	21
	Commercial		1.4	58	0.28	180	580	58
Former 8,000-Gallon Mineral Spirits/ 1,1,1-TCA UST								
SG-1	5	Soil	<0.10	0.2	0.31	<0.20	<0.10	<0.20
SG-2	5	Soil	<0.10	<0.10	<0.080	<0.20	<0.10	<0.20
SG-3	5	Soil	<0.10	<0.10	<0.080	<0.20	<0.10	<0.20
Former 550-Gallon Gasoline UST								
SG-4	5	Soil	0.12	<0.10	0.11	0.22	2	0.63
SG-5	5	Soil	<0.84	<0.84	0.96	<0.84	13	3.4
SG-6	5	Soil	<0.10	<0.10	<0.080	<0.20	0.27	<0.20
Former Three 10,000-Gallon USTs								
SG-7	5	Soil	<0.10	<0.10	<0.080	<0.20	<0.10	<0.20
SG-8	5	Soil	<0.41	<0.41	<0.33	<0.41	1.7	0.48
SG-9	5	Soil	<0.10	<0.10	<0.080	<0.20	0.56	<0.20
Parking Lot Area								
SG-10	5	Soil	<0.10	<0.10	0.21	0.26	0.28	<0.20

Notes:

(µg/l) - micrograms per liter
PCE - tetrachloroethylene
<0.20 - Not reported at or above laboratory's reporting limit of 0.20 µg/L
1,1,1-TCA - 1,1,1-Trichloroethane
- Samples analyzed using EPA Method 8260B by Airtoxics Laboratories Folsom, 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, commercial use ESLs.
UST - underground storage tank

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

Sample ID	Purge Volume	Depth (feet bgs)	Date	PCE	TCE	1,1-DCE	1,1,-DCA	Benzene	Toluene	Vinyl Chloride	m,p-xylene
RWQCB ESLs	Residential			0.41	1.2	42	1.5	0.084	63	0.031	21
	Commercial			1.4	4.1	120	5.1	0.28	180	0.1	58
SG-11	1	5.0	7/7/08	<0.1	<0.1	0.15	0.19	<0.08	0.23	<0.05	<0.2
SG-11	3	5.0	7/7/08	<0.1	<0.1	0.16	0.19	<0.08	<0.1	<0.05	<0.2
SG-11	7	5.0	7/7/08	<0.1	<0.1	0.16	0.19	<0.08	<0.1	<0.05	<0.2
SG-12	1	5.0	7/7/08	<0.1	<0.1	<0.1	<0.1	<0.08	0.27	2.1	<0.2
SG-12 (D)	1	5.0	7/7/08	<0.1	<0.1	<0.1	<0.1	<0.08	0.32	2.9	<0.2
SG-13A	1	Sub Slab	7/7/08	<0.1	<0.1	<0.1	<0.1	<0.08	<0.1	<0.05	<0.2
SG-13B	1	5.0	7/7/08	<0.1	<0.1	<0.1	<0.1	<0.08	<0.1	<0.05	<0.2
SG-14	1	5.0	7/7/08	<0.1	<0.1	<0.1	<0.1	<0.08	<0.1	<0.05	<0.2
SG-16A	1	Sub Slab	7/7/08	3.2	0.14	<0.1	<0.1	<0.08	<0.1	<0.05	0.22
SG-16B	1	5.0	7/7/08	0.58	<0.1	<0.1	<0.1	0.17	<0.1	3.7	<0.2

Notes:

- all concentrations expressed in micrograms per liter (µg/l)

(D) - Duplicate sample
feet bgs - feet below ground surface
PCE - Tetrachloroethene
TCE - Trichloroethene
1,1 - DCE - 1,1 - Dichloroethene
1,1 - DCA - 1,1 - Dichloroethane
1,1,1-TCA - 1,1,1-Trichloroethane
<0.10 - Not reported at or above laboratory's reporting limit of 0.10 µg/L
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, updated May 2008, Residential and Commercial/Industrial Land Use.

- Samples analyzed using EPA Method 8260B by Transglobal Environmental Geochemistry, Rancho Cordova, California
- Concentrations in bold exceed ESLs for indoor air vapor intrusion concerns - Commercial/Industrial Use

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

Sample ID	Purge Volume	Depth (feet bgs)	Date	PCE	Benzene
RWQCB ESLs	**Commercial**			1.4	0.28
SG-17	1	1.5	3/13/09	<0.1	<0.08
SG-18	1	1.5	3/13/09	<0.1	0.15
SG-18 (D)	1	1.5	3/13/09	<0.1	0.15
SG-19	1	1.5	3/13/09	3.1	<0.08
SG-19 (D)	1	1.5	3/13/09	3	<0.08

Notes:

µg/L - all concentrations expressed in micrograms per liter (µg/l)

(D) - Duplicate sample

feet bgs - feet below ground surface

PCE - Tetrachloroethene

<0.10 - Not reported at or above laboratory's reporting limit of 0.10 µg/L

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, updated May 2008, Residential and Commercial/Industrial Land Use.

- Samples analyzed using EPA Method 8260B by Transglobal Environmental Geochemistry, Rancho Cordova, California

- Concentrations in bold exceed ESLs for indoor air vapor intrusion concerns - Commercial/Industrial Use

Table 6
Summary of Groundwater Sample Results - Organics
AB&I Foundry
7825 San Leandro Street
Oakland, California

Sample ID	Depth	Date	TPHg	TPHd	MTBE	TBA	1,1 - DCA	1,1 - DCE	cis 1,2-DCE	Benzene	Chloro-ethane	1,2-Dichloro-benzene	Ethyl-benzene	Naph-thalene	Toluene	1,1,1-TCA	TCE	Vinyl Chloride	Xylenes, Total
Units	(feet)		(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
RWQCB ESLs[1]			5,000	2,500	1,800	50,000	1,000	6,300	6,200	540	160	100	300	210	400	50,000	530	3.8	5,300
RWQCB ESLs[1]			100	100	5	NE	5	6	6	1	12	10	30	17	40	200	5	0.5	20
Former Three 10,000-Gallon USTs																			
MW-9	5-20	10/25/2007	1300	120	<0.50	15	<0.50	<0.50	<0.5	89	<10	<0.50	5	<1	2	<5	<0.50	<5	<1
SB-01-GW24.5	24.5	10/30/2007	180	51	<0.13	<2.3	<0.059	<0.054	<0.11	0.75	<0.21	<0.05	3.2	1.5	0.67	<0.046	<0.063	<0.04	1.8
SB-06-GW23	23	10/31/2007	<28	110	<0.13	<2.3	<0.059	<0.054	<0.11	<0.035	<0.21	<0.05	<0.039	<0.096	0.52	<0.046	<0.063	<0.04	<0.49
SB-07-GW17	17	10/31/2007	2900	610	<0.13	<2.3	<0.059	<0.054	<0.11	37	<0.21	<0.05	19	17	<0.049	<0.046	<0.063	<0.04	1.4
SB-7-GW17 (D)	17	10/31/2007	4600	450	NA	NA	<0.059	<0.054	<0.11	45	<0.21	<0.05	17	16	<0.049	<0.046	<0.063	<0.04	1.7
SB-08-GW17	17	10/31/2007	19000	6100	<6.3	<2.3	<0.59	<0.054	<1.1	<0.35	<2.1	<0.5	22	15	<0.49	<0.46	<0.63	<0.4	<4.9
SB-09-GW17	17	10/31/2007	11000	27000	<6.3	<2.3	<0.059	<0.054	<0.11	25	<0.21	1.5	4.3	2.7	9.8	<0.046	2.1	<0.04	25
SB-37-GW16.5	16.5	11/27/2007	<50	<50	0.1	<5.0	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<1.0	0.89	<0.50	<0.50	<0.50	<1.0
SB-37-GW16.5 (D)	16.5	11/27/2007	NA	NA	11	NA	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<1.0	0.91	<0.50	<0.50	<0.50	<0.50
Former 550-Gallon Gasoline UST																			
MW-4	5-20	10/24/2007	<50	<50	<0.50	<5.0	<0.50	<0.50	<0.5	<5	<10	<0.50	<5	<1	<5	<5	<0.50	<5	<1
SB-12-GW20	20	11/2/2007	2300	860	0.57	<2.3	<0.059	<0.054	<0.11	3.3	<0.21	<0.05	18	1.8	<0.046	<0.063	<0.04	4.4	
SB-14-GW13	13	11/1/2007	1600	80	<0.25	<2.3	<0.059	<0.054	<0.11	1.1	<0.21	<0.05	2.8	<0.096	1.6	<0.046	<0.063	<0.04	7.3
Former 8,000-Gallon Mineral Spirits/ 1,1,1-TCA UST																			
MW-2R	5-20	10/25/2007	150	<50	<0.50	<5.0	<0.50	<0.50	<0.50	<5	<10	<0.50	<5	<1	<5	<5	<0.50	<5	<1
SB-22-GW10	10	11/2/2007	1300	87	<0.13	<2.3	<0.059	<0.054	<0.11	<0.035	<0.21	<0.05	<0.039	<0.096	<0.049	<0.046	<0.063	<0.04	<0.49
SB-25-GW10	10	11/2/2007	1500	1200	<0.13	<2.3	<0.3	<0.27	<0.53	5.4	<1.1	<0.25	50	<0.48	200	<0.23	<0.32	<0.2	410
SB-26-GW10	10	11/2/2007	3100	37000	<0.13	<2.3	<1.2	<1.1	<2.1	<0.7	<4.2	<1	17	630	<0.98	<0.92	<1.3	<0.8	<9.8
Parking Lot Area																			
MW-3	5-20	10/24/2007	540	<50	<0.50	<5.0	180	680	5	<5	<10	<0.50	<5	<1	<5	13	<0.50	7.5	<1
MW-5	5-20	10/25/2007	<50	<50	<0.50	<5.0	2	1.5	1.5	<5	<10	<0.50	<5	<1	<5	<5	<0.50	<5	<1
MW-6	5-20	10/24/2007	<50	110	<0.50	<5.0	<0.50	<0.50	<0.50	<5	<10	<0.50	<5	<1	<5	<5	<0.50	<5	<1
MW-8	5-20	10/25/2007	1200	<50	<0.50	<5.0	1600	1600	<0.50	<5	290	<0.50	<5	<1	<5	1700	<0.50	<5	<1
SB-15-GW15	15	11/1/2007	<28	<30	<0.13	<2.3	29	31	<0.11	<0.035	<0.21	<0.05	<0.039	<0.096	<0.049	16	0.58	<0.04	<0.49
SB-16-GW15 (D)	15	11/1/2007	220	<30	<0.13	<2.3	26	35	<0.11	<0.035	<0.21	<0.05	<0.039	<0.096	<0.049	15	0.83	<0.04	<0.49
SB-17-GW15	15	11/1/2007	540	100	NA	NA	170	740	<2.1	<0.7	<4.2	<1	<0.78	<1.9	<0.98	<0.92	<1.3	14	<9.8
SB-18-GW05	5	11/5/2007	330	160	<0.13	<2.3	250	660	<2.1	<0.7	28	<1	<0.78	<1.9	<0.98	310	<1.3	<0.8	<9.8
SB-19-GW15	15	11/5/2007	340	<30	<0.13	<2.3	200	880	5	<0.35	<2.1	<0.5	<0.39	<0.96	<0.49	<0.46	<0.63	10	<4.9
SB-20-GW15	15	11/5/2007	330	<30	<0.13	<2.3	200	950	<2.1	<0.7	<4.2	<1	<0.78	<1.9	<0.98	<0.92	<1.3	11	<9.8
SB-32-GW15	15	11/27/2007	NA	NA	<5.0	NA	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	0.62	<1.0	1.9	<0.50	<0.50	<0.50	3.3
SB-33-GW15	15	11/27/2007	NA	NA	<5.0	NA	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	0.61	<1.0	3.0	<0.50	<0.50	<0.50	3.4
SB-34-GW15	15	11/27/2007	NA	NA	<10	NA	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<2.0	2.2	<1.0	<1.0	<1.0	2.4
SB-35-GW11.5	11.5	11/27/2007	NA	NA	<5.0	NA	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<1.0
SB-36-GW11.5	11.5	11/26/2007	NA	NA	<5.0	NA	0.53	<0.50	<0.50	<0.50	1.6	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<1.0
Former 10,000-Gallon Diesel UST																			
MW-1	5-20	10/25/2007	<50	450	<0.50	<5.0	<0.50	<0.50	<5	<5	<10	<0.50	<5	<1	<5	<5	<0.50	<5	<1
MW-7	5-20	10/25/2007	<50	370	<0.50	<5.0	<0.50	<0.50	<5	<5	<10	<0.50	<5	<1	<5	<5	<0.50	<5	<1
SB-28-GW15	15	11/2/2007	<28	280	<0.13	<2.3	<0.059	<0.054	<0.11	<0.035	<0.21	<0.05	<0.039	<0.096	0.52	<0.046	<0.063	<0.04	<0.49
SB-29-GW15	15	11/5/2007	<28	150	<0.13	<2.3	<0.059	<0.054	<0.11	<0.035	<0.21	<0.05	<0.039	<0.096	<0.049	<0.046	<0.063	<0.04	<0.49

ATTACHMENT 5

Table 5
Summary of Groundwater Sample Results - Organics
AB&I Foundry
7825 San Leandro Street
Oakland, California

Sample ID	Depth	Date	TPHg	TPHd	MTBE	TBA	1,1 - DCA	1,1 - DCE	cis 1,2-DCE	Benzene	Chloro-ethane	1,2-Dichloro-benzene	Ethyl-benzene	Naph-thalene	Toluene	1,1,1-TCA	TCE	Vinyl chloride	Xylenes, Total
Units	(feet)		(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
RWQCB ESLs[1]			5,000	2,500	1,800	50,000	1,000	6,300	6,200	540	160	100	300	210	400	50,000	530	3.8	5,300
RWQCB ESLs[2]			100	100	5	NE	6	6	6	1	12	10	30	17	40	200	5	0.5	20
SB-30-GW10	10	11/2/2007	<28	74	<0.13	<2.3	<0.059	<0.054	<0.11	<0.035	<0.21	<0.05	<0.039	<0.098	0.64	<0.046	<0.063	<0.04	1.5

Notes:
(ug/L) - micrograms per Liter
(D) - duplicate sample
1,1,1-TCA - 1,1,1-Trichloroethane
UST - Underground Storage Tank
TPHg - Total Petroleum Hydrocarbons as Gasoline
TPHd - Total Petroleum Hydrocarbons as Diesel
MTBE - Methyl tert butyl ether
TBA - Tert butyl alcohol
cis-1,2-DCE - Cis-1,2-Dichloroethylene
<0.50 - Not reported at or above laboratory's reporting limit of 0.50 µg/L
NA - Analyte not sampled for
-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
-Concentrations in bold exceed ESLs for groundwater as a current or potential source of drinking water

RWQCB ESLs[1] - 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.

RWQCB ESLs[2] - 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 a current or potential source of drinking water.

Table 5
Summary of Grab Groundwater Sample Results
AB&I Foundry
7825 San Leandro Street
Oakland, California

Sample ID	Sampling Method	Depth	Date	TPHg	TPHd	PCE	1,1 - DCA	1,1 - DCE	1,2-DCA	trans 1,2-DCE	cis 1,2-DCE	Benzene	Chloroethane	Ethylbenzene	Toluene	1,1,1-TCA	TCE	Vinyl chloride	Naphthalene	Xylenes, Total
Units	PVC/HP	(feet)		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
RWQCB ESLs[1]				NE	NE	420	3,400	18,000	690	19,000	17,000	1,800	2,700	170,000	530,000	360,000	11,000	13.0	11,000	160,000
RWQCB ESLs[2]				NE	NE	120	1,000	6,300	200	6,700	6,200	540	820	170,000	360,000	130,000	530	3.8	3,200	160,000
Former Three 10,000-Gallon USTs																				
SB-51-GW44	PVC	44	7/12/2008	170	<50	0.52	<0.38	<0.43	3.6	<0.41	6.2	0.44J	<0.50	0.97	2.3	<0.48	3.8	0.61	2.5	7
SB-49-GW20	HP	20	7/10/2008	640	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
SB-45-GW45	PVC	45	7/10/2008	900	50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.57	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
SB-46-GW48	HP	48	7/10/2008	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Former 8,000-Gallon Mineral Spirits/ 1,1,1-TCA UST																				
SB-50-GW58	HP	58	7/12/2008	<50	<50	<0.50	<0.38	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	6.3	<0.38	1.5	<0.45
Parking Lot Area																				
SB-49-GW42	HP	42	7/12/2008	<50	<50	<0.50	0.39J	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.45
SB-949-GW42(D)	HP	42	7/12/2008	<50	<56	<0.50	0.38J	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.43 J	<0.38	<0.50	<0.45
Water Supply Well Area																				
SB-52-GW51	HP	51	7/12/2008	<50	<50	<0.50	<0.50	<0.50	2.2	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.45
SB-47-GW24	PVC	24	7/11/2008	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.62	<0.50	<0.50	<0.45
SB-38-GW25	PVC	25	7/8/2008	130	<50	0.50	49	70	<0.50	<0.50	4.1	<0.50	<0.50	<0.50	<0.50	<0.50	0.55	1.0	<0.50	<0.50

Notes:

NE - value not established
(D) - duplicate sample
UST - Underground Storage Tank
TPHg - Total Petroleum Hydrocarbons as Gasoline
TPHd - Total Petroleum Hydrocarbons as Diesel
1,2 - DCA - 1,2-dichloroethane
trans-1,2-DCE - Trans-1,2-dichloroethene
cis-1,2-DCE - Cis-1,2-dichloroethene
1,1,1-TCA - 1,1,1-Trichloroethane
TCE - Trichloroethene
- all concentrations expressed in micrograms per liter (µg/l)
<0.50 - Not reported at or above laboratory's reporting limit of 0.50 µg/L
-TPHg, TPHd, and VOCs analyzed using EPA Methods 8015B(M) and 8260B by Advanced Technology Laboratories (ATL), Signal Hill, California
-Concentrations in bold exceed ESLs for vapor intrusion concerns - Residential Land Use
PVC - Polyvinyl chloride pipe
HP - Hydropunch

RWQCB ESLs[1] - 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, update May 2008, commercial land use.

RWQCB ESLs[2] - 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, updated May 2008, residential land use.

Table C-2
Summary of Analytical Results
Petroleum Hydrocarbon Related Constituents (ug/L)
AB&I Foundry
7825 San Leandro Street
Oakland, California

Well Number	Date	Total Oil & Grease	Hydrocarbon Oil & Grease	TPH-Diesel	Naphthalene	TPH-Gasoline	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	ETBE	TAME	DIPE	TBA	1,2-DCA
RWQCB ESLs[1]			NA	NA	11,000	NA	1,800	530,000	170,000	160,000	80,000	NA	NA	NA	NA	690
MCLs[2]			NA	NA	17*	NA	1.0	150	700	1,750	13	NA	NA	NA	NA	0.5
MW-1	03/10/93	--	--	830	--	--	0.6	ND	ND	ND	--	--	--	--	--	--
	08/20/93	--	--	2,100	--	--	2.2	3.7	4.5	17	--	--	--	--	--	--
	12/03/93	--	--	3,200	--	--	ND	ND	ND	ND	--	--	--	--	--	--
	03/04/94	--	--	710	--	--	1.1	ND	ND	ND	--	--	--	--	--	--
	06/10/94	--	--	480	--	--	ND	ND	ND	ND	--	--	--	--	--	--
	09/09/94	--	--	ND	--	--	ND	ND	ND	ND	--	--	--	--	--	--
	12/16/94	--	--	180	--	--	0.6	ND	ND	ND	--	--	--	--	--	--
	03/17/95	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/23/95	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/06/95	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/18/96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/26/96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/03/97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	07/14/06	--	--	180	--	<50	<0.3	<0.3	<0.3	<0.3	<1.0	<1.0	<1.0	<1.0	<50	<1.0
	10/25/07	--	--	450	<1.0	<50	<5.0	<5.0	<5.0	<1.0	<0.50	<0.50	<0.50	<1.0	<5.0	<0.50
	02/22/08	--	--	560	<1.0	<50	<0.5	<0.5	<0.5	<1.0	<5.0	--	--	--	--	<0.5
	02/22/08	--	--	560	<1.0	<50	<0.5	<0.5	<0.5	<1.0	<5.0	--	--	--	--	<0.5
	06/13/08	--	--	160	<0.50	<50	<0.50	<0.50	<0.50	<1.0	--	--	--	--	--	<0.50
	10/03/08	--	--	140	<0.50	<50	<0.50	<0.50	<0.50	<1.0	--	--	--	--	--	<0.50
	12/12/08	--	--	100	<0.50	<50	<5.0	<5.0	<5.0	<10	--	--	--	--	--	<5.0
	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

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Summary of Analytical Results
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AB&I Foundry
7825 San Leandro Street
Oakland, California

Well Number	Date	Total Oil & Grease	Hydrocarbon Oil & Grease	TPH-Diesel	Naphthalene	TPH-Gasoline	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	ETBE	TAME	DIPE	TBA	1,2-DCA
RWQCB ESLs[1]			NA	NA	11,000	NA	1,800	530,000	170,000	160,000	80,000	NA	NA	NA	NA	690
MCLs[2]			NA	NA	17*	NA	1.0	150	700	1,750	13	NA	NA	NA	NA	0.5
MW-2	03/10/93	1.0	ND	--	--	920	ND	0.8	ND	ND	--	--	--	--	--	--
	08/20/93	ND	ND	--	--	720	2.9	4.2	6.3	25	--	--	--	--	--	--
	12/03/93	ND	ND	--	--	900	ND	250	19	5.1	--	--	--	--	--	--
	03/04/94	ND	ND	--	--	420	ND	ND	ND	3.6	--	--	--	--	--	--
	06/10/94	2,000	2,000	--	--	920	ND	ND	ND	ND	--	--	--	--	--	--
	09/09/94	2.0	2.0	--	--	830	ND	ND	ND	ND	--	--	--	--	--	--
	12/16/94	ND	ND	--	--	130	ND	0.2	ND	ND	--	--	--	--	--	--
	03/17/95	--	1.0	--	--	320	4.9	ND	ND	ND	--	--	--	--	--	--
	06/23/95	ND	ND	--	--	190	ND	ND	ND	ND	--	--	--	--	--	--
	09/06/95	ND	ND	--	--	110	ND	ND	ND	ND	--	--	--	--	--	--
	01/18/96	ND	ND	--	--	120	ND	ND	ND	ND	--	--	--	--	--	--
	04/26/96	ND	ND	--	--	500	ND	ND	ND	ND	--	--	--	--	--	--
	02/03/97	ND	ND	--	--	250	ND	ND	ND	1.7	--	--	--	--	--	--
	07/14/06	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	06/13/08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-2R	08/18/06	--	--	260	--	510	0.62	2.6	0.53	0.85	<0.5	<0.5	<0.5	<0.5	<20	<2.5
	10/25/07	--	--	<50	<1.0	'150	<5.0	<5.0	<5.0	<1.0	<0.50	<0.50	<0.50	<1.0	<5.0	<0.50
	02/22/08	--	--	200	<1.0	'120	<0.5	<0.5	<0.5	<1.0	<5.0	--	--	--	--	<0.5
	02/22/08	--	--	200	<1.0	'120	<0.5	<0.5	<0.5	<1.0	<5.0	--	--	--	--	<0.5
	06/13/08	--	--	<50	<0.50	'98	<0.50	<0.50	<0.50	<1.0	--	--	--	--	--	<0.50
	10/03/08	--	--	<50	<0.50	'71	<0.50	<0.50	<0.50	<1.0	--	--	--	--	--	<0.50
	12/12/08	--	--	52	<0.50	'81	<0.50	<0.50	<0.50	<1.0	--	--	--	--	--	<0.50
	05/22/09	--	--	<0.050	<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

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7825 San Leandro Street
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Well Number	Date	Total Oil & Grease	Hydrocarbon Oil & Grease	TPH-Diesel	Naphthalene	TPH-Gasoline	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	ETBE	TAME	DIPE	TBA	1,2-DCA
RWQCB ESLs[1]			NA	NA	11,000	NA	1,800	530,000	170,000	160,000	80,000	NA	NA	NA	NA	690
MCLs[2]			NA	NA	17*	NA	1.0	150	700	1,750	13	NA	NA	NA	NA	0.5
MW-3	03/10/93	--	--	--	--	ND	ND	ND	ND	ND	--	--	--	--	--	--
	08/20/93	--	--	--	--	190	7.2	9.3	8.6	31	--	--	--	--	--	--
	12/03/93	--	--	--	--	ND	ND	ND	ND	ND	--	--	--	--	--	--
	03/04/94	--	--	--	--	ND	ND	ND	ND	ND	--	--	--	--	--	--
	06/10/94	--	--	--	--	ND	ND	ND	ND	ND	--	--	--	--	--	--
	09/09/94	--	--	--	--	ND	ND	ND	ND	ND	--	--	--	--	--	--
	12/16/94	--	--	--	--	ND	ND	ND	ND	ND	--	--	--	--	--	--
	03/17/95	--	--	--	--	ND	ND	ND	ND	ND	--	--	--	--	--	--
	06/23/95	--	--	--	--	ND	ND	ND	ND	ND	--	--	--	--	--	--
	09/06/95	--	--	--	--	ND	ND	ND	ND	ND	--	--	--	--	--	--
	01/18/96	--	--	--	--	ND	ND	ND	ND	ND	--	--	--	--	--	--
	04/26/96	--	--	--	--	ND	ND	ND	ND	ND	--	--	--	--	--	--
	02/03/97	--	--	--	--	--	ND	ND	ND	ND	--	--	--	--	--	--
	07/14/06	--	--	<50	<5.0	93	1.2	<0.3	<0.3	<0.3	<1.0	<1.0	<1.0	<1.0	<50	<1.0
	10/24/07	--	--	<50	<1.0	*540	<5.0	<5.0	<5.0	<1.0	<5.0	<0.50	<0.50	<1.0	<5.0	<5.0
	02/21/08	--	--	110	<20	*660	<5.0	<5.0	<5.0	<1.0	<50	--	--	--	--	<10
	02/21/08	--	--	110	<20	*660	<5.0	<5.0	<5.0	<1.0	<50	--	--	--	--	<10
	06/13/08	--	--	<50	<0.50	*510	0.65	<0.50	<0.50	<1.0	--	--	--	--	--	<0.50
	10/02/08	--	--	<50	<0.50	*500	<2.5	<2.5	<2.5	<5	--	--	--	--	--	<2.5
	12/11/08	--	--	<50	<2.5	*410	<2.5	<2.5	<2.5	9.5	--	--	--	--	--	<2.5
	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	--	--	<0.50	<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

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RWQCB ESLs[1]			NA	NA	11,000	NA	1,800	530,000	170,000	160,000	80,000	NA	NA	NA	NA	690
MCLs[2]			NA	NA	17*	NA	1.0	150	700	1,750	13	NA	NA	NA	NA	0.5
MW-4	03/10/93	--	--	--	--	1,800	1.0	2.0	7.6	19	--	--	--	--	--	--
	08/20/93	--	--	--	--	350	5.6	4.9	7.5	22	--	--	--	--	--	--
	12/03/93	--	--	--	--	1,100	ND	ND	1.4	2.8	--	--	--	--	--	--
	03/04/94	--	--	--	--	50	ND	0.9	ND	1.1	--	--	--	--	--	--
	06/10/94	--	--	--	--	460	4.3	ND	1.8	4.3	--	--	--	--	--	--
	09/09/94	--	--	--	--	150	0.4	ND	0.7	1.3	--	--	--	--	--	--
	12/16/94	--	--	--	--	100	0.4	0.4	ND	1.2	--	--	--	--	--	--
	03/17/95	--	--	--	--	82	ND	ND	ND	ND	--	--	--	--	--	--
	06/23/95	--	--	--	--	180	ND	ND	0.9	1.7	--	--	--	--	--	--
	09/06/95	--	--	--	--	420	9.4	1.4	6.3	6.2	--	--	--	--	--	--
	01/18/96	--	--	--	--	90	0.8	ND	1.2	0.9	--	--	--	--	--	--
	04/26/96	--	--	--	--	ND	ND	ND	ND	ND	--	--	--	--	--	--
	02/03/97	--	--	--	--	110	ND	ND	0.53	ND	--	--	--	--	--	--
	07/14/06	--	--	82	9.9	1,200	11	2.8	18	9.3	<1.0	<1.0	<1.0	<1.0	<50	<1.0
	10/24/07	--	--	<50	<1.0	<50	<5.0	<5.0	<5.0	<1.0	<0.50	<0.50	<0.50	<1.0	<5.0	<0.50
	02/21/08	--	--	95	<1.0	<50	<0.5	<0.5	<0.5	<1.0	<5.0	--	--	--	--	<0.5
	02/21/08	--	--	95	<1.0	<50	<0.5	<0.5	<0.5	<1.0	<5.0	--	--	--	--	<0.5
	06/13/08	--	--	<50	<0.50	<50	<0.50	<0.50	<0.50	<1.0	--	--	--	--	--	<0.50
	10/02/08	--	--	<50	<0.50	<50	<0.50	<0.50	<0.50	<1.0	--	--	--	--	--	<0.50
	12/11/08	--	--	<50	<0.50	<50	<0.50	<0.50	<0.50	<1.0	--	--	--	--	--	<0.50
	05/21/09	--	--	<0.050	<0.50	<0.050	<0.50	<0.50	<0.50	<1.0	--	--	--	--	--	<0.50
	12/09/09	--	--	<0.50	<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	08/17/06	--	--	80	<1.0	<50	0.56	0.7	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<20	<2.5
	10/25/07	--	--	<50	<1.0	<50	<5.0	<5.0	<5.0	<1.0	<0.50	<0.50	<0.50	<1.0	<5.0	<0.50
	02/22/08	--	--	130	<1.0	<50	<0.5	<0.5	<0.5	<1.0	<5.0	--	--	--	--	<0.5
	02/22/08	--	--	130	<1.0	<50	<0.5	<0.5	<0.5	<1.0	<5.0	--	--	--	--	<0.5
	06/13/08	--	--	<50	<0.50	<50	0.65	<0.50	<0.50	<1.0	--	--	--	--	--	<0.50
	10/02/08	--	--	<50	<0.50	54	<0.5	<0.50	<0.50	<1.0	--	--	--	--	--	<0.50
	12/11/08	--	--	51	<0.50	<50	<0.50	<0.50	<0.50	<1.0	--	--	--	--	--	<0.50
	05/21/09	--	--	<0.050	<0.50	<0.050	<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

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Well Number	Date	Total Oil & Grease	Hydrocarbon Oil & Grease	TPH-Diesel	Naphthalene	TPH-Gasoline	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	ETBE	TAME	DIPE	TBA	1,2-DCA
RWQCB ESLs[1]			NA	NA	11,000	NA	1,800	530,000	170,000	160,000	80,000	NA	NA	NA	NA	690
MCLs[2]			NA	NA	17*	NA	1.0	150	700	1,750	13	NA	NA	NA	NA	0.5
MW-6	08/17/06	--	--	110	<1.0	<50	<0.3	<0.3	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<20	<2.5
	10/24/07	--	--	110	<1.0	<50	<5.0	<5.0	<5.0	<1.0	<0.50	<0.50	<0.50	<1.0	<5.0	<0.50
	02/21/08	--	--	150	<1.0	<50	<0.5	<0.5	<0.5	1.5	<5.0	--	--	--	--	<0.5
	02/21/08	--	--	150	<1.0	<50	<0.5	<0.5	<0.5	1.5	<5.0	--	--	--	--	<0.5
	06/13/08	--	--	54	<0.50	<50	<0.50	<0.50	<0.50	<1.0	--	--	--	--	--	<0.50
	10/02/08	--	--	56	<0.50	<50	<0.50	<0.50	<0.50	<1.0	--	--	--	--	--	<0.50
	12/11/08	--	--	<50	<5.0	<50	<5.0	<5.0	<5.0	<10	--	--	--	--	--	<5.0
	05/21/09	--	--	<0.050	<0.50	<0.050	<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	08/17/06	--	--	520	<1.0	<50	<0.3	0.35	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<20	<2.5
	10/25/07	--	--	370	<1.0	<50	<5.0	<5.0	<5.0	<1.0	<0.50	<0.50	<0.50	<1.0	<5.0	<0.50
	02/21/08	--	--	180	<1.0	<50	<0.5	<0.5	<0.5	<1.0	<5.0	--	--	--	--	<0.5
	02/21/08	--	--	180	<1.0	<50	<0.5	<0.5	<0.5	<1.0	<5.0	--	--	--	--	<0.5
	06/13/08	--	--	59	<0.50	<50	<0.50	<0.50	<0.50	<1.0	--	--	--	--	--	<0.50
	10/02/08	--	--	120	<0.50	<50	<0.50	<0.50	<0.50	<1.0	--	--	--	--	--	<0.50
	12/12/08	--	--	78	<5.0	<50	<5.0	<5.0	<5.0	<10	--	--	--	--	--	<5.0
	05/22/09	--	--	<0.050	<0.50	<0.050	<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 C-2
Summary of Analytical Results
Petroleum Hydrocarbon Related Constituents (ug/L)
AB&I Foundry
7825 San Leandro Street
Oakland, California

Well Number	Date	Total Oil & Grease	Hydrocarbon Oil & Grease	TPH-Diesel	Naphthalene	TPH-Gasoline	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	ETBE	TAME	DIPE	TBA	1,2-DCA
RWQCB ESLs[1]			NA	NA	11,000	NA	1,800	530,000	170,000	160,000	80,000	NA	NA	NA	NA	690
MCLs[2]			NA	NA	17*	NA	1.0	150	700	1,750	13	NA	NA	NA	NA	0.5
MW-8	08/17/06	--	--	78	<5.0	640	1.9	<0.3	<0.3	<0.3	<2.5	<2.5	<2.5	<2.5	<100	<2.5
	10/25/07	--	--	<50	<1.0	*1200	<5.0	<5.0	<5.0	<1.0	<0.50	<0.50	<0.50	<1.0	<5.0	<25
	02/21/08	--	--	140	<50	*2500	<25	<25	<25	<50	<250	--	--	--	--	<25
	02/21/08	--	--	140	<50	*2500	<25	<25	<25	<25	<250	--	--	--	--	<25
	06/13/08	--	--	<50	<10	*2100	<10	<10	<10	<20	--	--	--	--	--	<10
	10/02/08	--	--	<50	<5.0	*2100	2.8	<5.0	<5.0	<10	--	--	--	--	--	<5.0
	12/11/08	--	--	<50	<5.0	*1900	3.0	<5.0	<5.0	<10	--	--	--	--	--	<5.0
	05/21/09	--	--	<0.050	<5.0	2.1	2.9	<5.0	<5.0	<10	--	--	--	--	--	<5.0
Dup	05/21/09	--	--	<0.050	<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
MW-9	08/17/06	--	--	440	<40	7,400	250	11	51	14	<50	<50	<50	<50	<500	<40
	10/25/07	--	--	120	<1	1,300	89	2.0	6.0	<1	<0.50	<0.50	<0.50	<1.0	15.0	<1.0
	02/21/08	--	--	190	<4.0	2,600	170	2.8	9.1	<4.0	<20	--	--	--	--	<2.0
	06/13/08	--	--	180	2.1	2,900	180	3.0	7.6	2.1	--	--	--	--	--	<0.50
	10/03/08	--	--	200	1.8	3,100	170	2.8	5.9	1.9	--	--	--	--	--	<0.50
	12/11/08	--	--	86	1.3	2,300	120	2.1	2.7	1.4	--	--	--	--	--	<0.50
	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	4.8	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

Table C-2
Summary of Analytical Results
Petroleum Hydrocarbon Related Constituents (ug/L)
AB&I Foundry
7825 San Leandro Street
Oakland, California

Well Number	Date	Total Oil & Grease	Hydrocarbon Oil & Grease	TPH-Diesel	Naphthalene	TPH-Gasoline	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	ETBE	TAME	DIPE	TBA	1,2-DCA
RWQCB ESLs[1]			NA	NA	11,000	NA	1,800	530,000	170,000	160,000	80,000	NA	NA	NA	NA	690
MCLs[2]			NA	NA	17*	NA	1.0	150	700	1,750	13	NA	NA	NA	NA	0.5

Notes:
Value in bold exceed the MCL
Shaded values exceed the ESL for vapor intrusion
[1] California Department of Health Drinking Water Program, Drinking Water Notification Level, December 14, 2007
-Historical data for sampling events conducted prior to October 2007 obtained from Table 2, Preliminary Groundater Investigation Report, AB&I Foundry, BSK Associates, Inc., dated June 11, 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 C-3
Summary of Analytical Results
Volatile Organic Compounds and PAHs (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	Polycyclic Aromatic Hydrocarbons EPA 8270C
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-1	03/10/93	--	--	--	--	--	--	--	--	--	--	--	--
	08/20/93	--	--	--	--	--	--	--	--	--	--	--	--
	12/03/93	--	--	--	--	--	--	--	--	--	--	--	--
	03/04/94	--	--	--	--	--	--	--	--	--	--	--	--
	06/10/94	--	--	--	--	--	--	--	--	--	--	--	--
	09/09/94	--	--	--	--	--	--	--	--	--	--	--	--
	12/16/94	--	--	--	--	--	--	--	--	--	--	--	--
	03/17/95	--	--	--	--	--	--	--	--	--	--	--	--
	06/23/95	--	--	--	--	--	--	--	--	--	--	--	--
	09/06/95	--	--	--	--	--	--	--	--	--	--	--	--
	01/18/96	--	--	--	--	--	--	--	--	--	--	--	--
	04/26/96	--	--	--	--	--	--	--	--	--	--	--	--
	02/03/97	--	--	--	--	--	--	--	--	--	--	--	--
	07/14/06	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	08/17/06	--	--	--	--	--	--	--	--	--	--	--	ND
	10/25/07	<1.0	<0.50	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--
	02/22/08	<1.0	<0.50	<1.0	0.56	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--
	06/13/08	<0.50	<0.50	<0.50	0.4	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--
	10/03/08	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--
	12/12/08	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	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	--

Table C-3
Summary of Analytical Results
Volatile Organic Compounds and PAHs (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	Polycyclic Aromatic Hydrocarbons EPA 8270C
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-2	03/10/93	0.6	ND	5.0	1.7	ND	ND	ND	6.7	6.7	6.7	6.7	--
	08/20/93	ND	ND	4.7	ND	ND	ND	ND	ND	ND	ND	ND	--
	12/03/93	ND	ND	3.8	ND	ND	ND	ND	ND	ND	ND	ND	--
	03/04/94	ND	ND	3.7	ND	ND	ND	ND	ND	ND	ND	3.6	--
	06/10/94	ND	ND	4.2	0.6	ND	ND	ND	0.8	0.8	0.8	0.8	--
	09/09/94	ND	ND	1.4	0.8	ND	ND	ND	ND	ND	ND	ND	--
	12/16/94	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	03/17/95	ND	ND	2.4	ND	ND	ND	ND	ND	ND	ND	ND	--
	06/23/95	ND	ND	0.9	ND	ND	ND	ND	ND	ND	ND	ND	--
	09/06/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	01/18/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	04/26/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	02/03/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	07/14/06	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	--
	Well Abandoned												
MW-2R	08/18/06	<2.5	<2.5	390	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	ND
	10/25/07	<1.0	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	--
	02/22/08	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	--
	06/13/08	<0.50	<0.50	<0.50	<0.50	0.68	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--
	10/03/08	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--
	12/12/08	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--
	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	--

Table C-3
Summary of Analytical Results
Volatile Organic Compounds and PAHs (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	Polycyclic Aromatic Hydrocarbons EPA 8270C
RWQCB ESLs[1]		NA	NA	2,700	3,400	1,800	17,000	19,000	380,000	13	NE	NE	
MCLs[2]		NA	NA	NE	5.0	6.0	6.0	10	200	0.5	770*	260*	
MW-3	03/10/93	--	--	--	--	--	--	--	--	--	--	--	--
	08/20/93	--	--	--	--	--	--	--	--	--	--	--	--
	12/03/93	--	--	--	--	--	--	--	--	--	--	--	--
	03/04/94	--	--	--	--	--	--	--	--	--	--	--	--
	06/10/94	--	--	--	--	--	--	--	--	--	--	--	--
	09/09/94	--	--	--	--	--	--	--	--	--	--	--	--
	12/16/94	--	--	--	--	--	--	--	--	--	--	--	--
	03/17/95	--	--	--	--	--	--	--	--	--	--	--	--
	06/23/95	--	--	--	--	--	--	--	--	--	--	--	--
	09/06/95	--	--	--	--	--	--	--	--	--	--	--	--
	01/18/96	--	--	--	--	--	--	--	--	--	--	--	--
	04/26/96	--	--	--	--	--	--	--	--	--	--	--	--
	02/03/97	--	--	--	--	--	--	--	--	--	--	--	--
	07/14/06	<20	<20	<20	200	960	<20	<20	<20	<20	<20	<20	ND
	10/24/07	<10	<5.0	<10	160	660	5.0	<5	13.0	7.5	<5.0	<10	--
	02/21/08	<10	<5	<10	220	920	9.3	<5	<5	10.0	<5	<10	--
	06/12/08	<0.50	<0.50	<0.50	170	910	7.9	0.5	<0.50	13.0	<0.50	<0.50	--
	10/02/08	<2.5	<2.5	<2.5	190	1,000	7.6	1.5 J	<2.5	9.6	<2.5	<2.5	--
	12/11/08	<2.5	<2.5	<2.5	200	2,000	9.4	<2.5	2.2	9.5	<2.5	<2.5	--
	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	--

Table C-3
Summary of Analytical Results
Volatile Organic Compounds and PAHs (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	Polycyclic Aromatic Hydrocarbons EPA 8270C
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-4	03/10/93	--	--	--	--	--	--	--	--	--	--	--	--
	08/20/93	--	--	--	--	--	--	--	--	--	--	--	--
	12/03/93	--	--	--	--	--	--	--	--	--	--	--	--
	03/04/94	--	--	--	--	--	--	--	--	--	--	--	--
	06/10/94	--	--	--	--	--	--	--	--	--	--	--	--
	09/09/94	--	--	--	--	--	--	--	--	--	--	--	--
	12/16/94	--	--	--	--	--	--	--	--	--	--	--	--
	03/17/95	--	--	--	--	--	--	--	--	--	--	--	--
	06/23/95	--	--	--	--	--	--	--	--	--	--	--	--
	09/06/95	--	--	--	--	--	--	--	--	--	--	--	--
	01/18/96	--	--	--	--	--	--	--	--	--	--	--	--
	04/26/96	--	--	--	--	--	--	--	--	--	--	--	--
	02/03/97	--	--	--	--	--	--	--	--	--	--	--	--
	07/14/06	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<0.5	<5.0	--
	10/24/07	<1.0	<1.0	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--
	02/21/08	<1.0	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--
	06/12/08	<0.50	<0.50	<0.50	<0.50	0.73	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--
	10/02/08	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--
	12/11/08	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--
	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 C-3
Summary of Analytical Results
Volatile Organic Compounds and PAHs (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	Polycyclic Aromatic Hydrocarbons EPA 8270C
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-5	08/17/06	2.2	1.0	4.8	4.8	1.2	3.1	1.0	<5.0	<5.0	<5.0	<5.0	ND
	10/25/07	<1.0	<0.5	<1.0	2	1.5	1.5	<0.5	<0.5	<0.5	<0.5	<1.0	--
	02/22/08	<1.0	<0.5	<1.0	1.4	1	3.3	1.1	<0.5	<0.5	<0.5	<1.0	--
	06/12/08	<0.50	<0.50	<0.50	1.1	1.5	5.1	2	<0.50	<0.50	<0.50	<0.50	--
	10/02/08	<0.50	<0.50	<0.50	1.2	0.81	3.9	1.7	<0.50	<0.50	<0.50	<0.50	--
	12/11/08	<0.50	<0.50	<0.50	1.6	0.76	3.4	1.2	<0.50	<0.50	<0.50	<0.50	--
	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	08/17/06	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND
	10/24/07	<1.0	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	02/21/08	<1.0	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--
	06/12/08	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--
	10/02/08	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--
	12/11/08	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	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-7	08/17/06	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND
	10/25/07	<1.0	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	02/21/08	<1.0	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--
	06/13/08	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--
	10/02/08	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--
	12/12/08	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	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	--

Table C-3
Summary of Analytical Results
Volatile Organic Compounds and PAHs (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	Polycyclic Aromatic Hydrocarbons EPA 8270C
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-8	08/17/06	<2.5	<2.5	100	560	900	<2.5	<2.5	1,000	7.4	1,000	7.4	ND
	10/25/07	<50	<25	290	1,600	1,600	<0.5	<25	1,700	<25	<25	<50	--
	02/21/08	<50	<25	290	1,800	2,300	<25	<25	2,500	<25	<25	<50	--
	06/12/08	<10	<10	300	1,400	3,200	<10	<10	2,700	19	<10	<10	--
	10/02/08	<5.0	<5.0	320	1,100	1,900	<5	<5	1,700	15	5.2	<5.0	--
	12/11/08	<5.0	<5.0	320	1,300	2,000	<5.0	<5.0	2,000	15	6.2	<5.0	--
	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	6.0	<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	<2.5	--
	12/22/10	--	--	91	<0.50	0.76	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--

Table C-3
Summary of Analytical Results
Volatile Organic Compounds and PAHs (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	Polycyclic Aromatic Hydrocarbons EPA 8270C
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-9	08/23/06	<40	<40	<40	<40	<40	<40	<40	<40	<40	53	62	ND
	10/25/07	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<2.0	-
	02/21/08	<4.0	<2.0	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	23	24	--
	06/12/08	<0.50	<0.50	<0.50	<0.50	1.4	<0.50	<0.50	<0.50	<0.50	22	26	--
	10/03/08	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	29	--
	12/11/08	<0.50	<0.50	<0.50	<0.50	1.4	<0.50	<0.50	<0.50	<0.50	19	23	--
	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	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
-Historical data for samping events conducted prior to October 2007 obtained from Table 3, Preliminary Groundater Investigation Report, AB&I Foundry BSK Associates, Inc., dated June 11,

MCL	=	California EPA Department of Health Service Maximum concentration levels for drinking water
RWQCB ESLs (V)	=	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

Table 2
Summary of Semi-Annual Groundwater Monitoring Results - December 2010
ABS1 Foundry
7825 San Leandro Street
Oakland, California

Sample ID	Date	TPHg	TPHd	Ethane	Ethylene	Methane	TOC	1,1 - DCA	1,1 - DCE	1,2-DCA	trans 1,2-DCE	cis 1,2-DCE	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Benzene	Chlorobenzene	Ethylbenzene	1,2,3-Trichloropropane	Tert-Butylbenzene	Isopropylbenzene	4-Isopropyltoluene	Toluene	1,1,1-TCA	Vinyl chloride	m&p-Xylene	Naphthalene
Units		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
MCLs		NE	NE	NE	NE	NE	NE	5.0	6.0	0.5	10	6.0	260*	260*	260*	1.0	NE	700	0.005*	260*	770*	NE	150	200	0.5	1750	17*
RWQCB ESLs (WI)		NE	NE	NE	NE	NE	NE	3,400	18,000	690	19,000	17,000	NE	NE	NE	1,800	2,700	170,000	NE	NE	NE	NE	530,000	350,000	33	160,000	11,000
MW-3	12/22/2010	<50	<50	<10	<15	4,500	40,000	0.29 J	0.32	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.40 J	3.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.97	<1.0	<0.50
MW-8	12/22/2010	<50	120	<10	<15	3,500	83,000	<0.50	0.76	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.43 J	91	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50
MW-9	12/22/2010	2,200	120	6.8	<3.0	2,200	24,000	<0.50	<0.50	<0.50	<0.50	<0.50	1.2	12.0	1.8	77	<0.50	9.1	<0.50	0.41 J	12	2.1	1.8	<0.50	<0.50	1.4	0.75

Notes:

Values in bold exceed MCLs

NE - value not established

NA - not analyzed

Dup - Duplicate sample

TPHg - Total Petroleum Hydrocarbons as Gasoline

TPHd - Total Petroleum Hydrocarbons as Diesel

1,1-DCE - 1,1-Dichloroethene

1,1-DCA - 1,1-Dichloroethane

1,1,1-TCA - 1,1,1-Trichloroethane

1,2-DCA - 1,2-Dichloroethane

trans 1,2-DCE - Trans-1,2-Dichloroethene

cis-1,2-DCE - Cis-1,2-Dichloroethene

<0.50 - not reported at or above laboratory's reporting limit of 0.50 µg/L

J - analyte detected below quantitation limits

MCL - California EPA Department of Health Service Maximum contamination levels for drinking water

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

RWQCB ESLs (WI) - Regional Water Quality Control Board Environmental Screening Levels based on vapor intrusion concerns for commercial land use scenario

TABLE 2A - WATER RESULTS

BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES
Results in Parts Per Billion (ppb)

	CONSTITUENTS			
Sample Location (Action Level)	Benzene (1)$_1$	Toluene (100)$_2$	Ethylbenzene (680)$_1$	Xylenes (1750)$_1$
MW-1	0.6	ND	ND	ND
MW-2	ND	0.8	ND	ND
MW-3	ND	ND	ND	ND
MW-4	1.0	2.0	7.6	19

ND - None Detected
1 - California Department Of Health Services Drinking Water Standard, Revised 10/23/91
2 - California DOHS Action Level, 7/1/92

TABLE 2B - WATER RESULTS

TOTAL PETROLEUM HYDROCARBONS (TPH) AS GASOLINE AND DIESEL, TOTAL AND HYDROCARBON OIL AND GREASE, TOTAL LEAD, AND VOLATILE HALOCARBONS
Results in Parts Per Billion (ppb)

	CONSTITUENTS					
Sample Location (Action Level)	TPH Gasoline (NA)	TPH Diesel (NA)	Total Oil & Grease (NA)	Hydrocarbon Oil & Grease (NA)	Total Lead (50)	Volatile Halocarbons (Determined by Compound)
MW-1	--	830	--	--	--	--
MW-2	920	--	1.0	ND	--	0.6 - Bromoform(100)$_2$ 5 - Chloroethane(NA) 1.7 - 1,1-Dichloroethane(0.5) 8.7 - 1,1,1-Trichloroethane(200)$_1$
MW-3	ND	--	--	--	--	--
MW-4	1800	--	--	--	0.058	--

5ppb

<58 ppb? is this ppm yes! mg/l

ND - None Detected
NA - Not Applicable
-- - Not Tested
1 - California Department of Health Services Drinking Water Standards, Revised 10/23/91.
2 - EPA Drinking Water Standard, Revised 7/1/92

BSK & Associates

Table 7
Summary of Natural Attenuation Parameters
AB&I Foundry
7825 San Leandro Street
Oakland, California

Well ID	Screened Interval	Date	Methane	Chloride	Sulfate	Alkalinity	Bicarbonate	Ferrous Fe	Mn
Units	(feet)		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
MW-1	5-20	10/25/2007	<10	69,000	340,000	330,000	330,000	1,600	2,300
MW-2R	5-20	10/25/2007	1,600	110,000	55,000	590,000	590,000	3,900	2,600
MW-3	5-20	10/24/2007	2,300	250,000	190,000	850,000	850,000	220	1,300
MW-4	5-20	10/24/2004	3,500	21,000	51,000	350,000	350,000	1,200	1,700
MW-5	5-20	10/25/2007	23	130,000	33,000	650,000	650,000	380	1,800
MW-6	5-20	10/24/2007	12	210,000	140,000	960,000	960,000	420	1,000
MW-7	5-20	10/25/2007	11,000	110,000	1,700	710,000	710,000	2,900	340
MW-8	5-20	10/25/2007	3,100	200,000	61,000	750,000	750,000	310	690
MW-9	5-20	10/25/2007	9,000	130,000	9,700	720,000	720,000	2,900	3,900

Notes:

(mg/L) - milligrams per liter

Mn -manganese

Fe -iron

-methane analyzed using RSK Method by Test America Laboratories (TAL), Pleasanton, California

-chloride and sulfate analyzed using EPA Method 300.0 by TAL

-alkalinity and bicarbonate analyzed using SM 2320B by TAL

-ferrous iron analyzed using SM 3500 FE D by TAL

-manganese analyzed using EPA Method 6010B by TAL

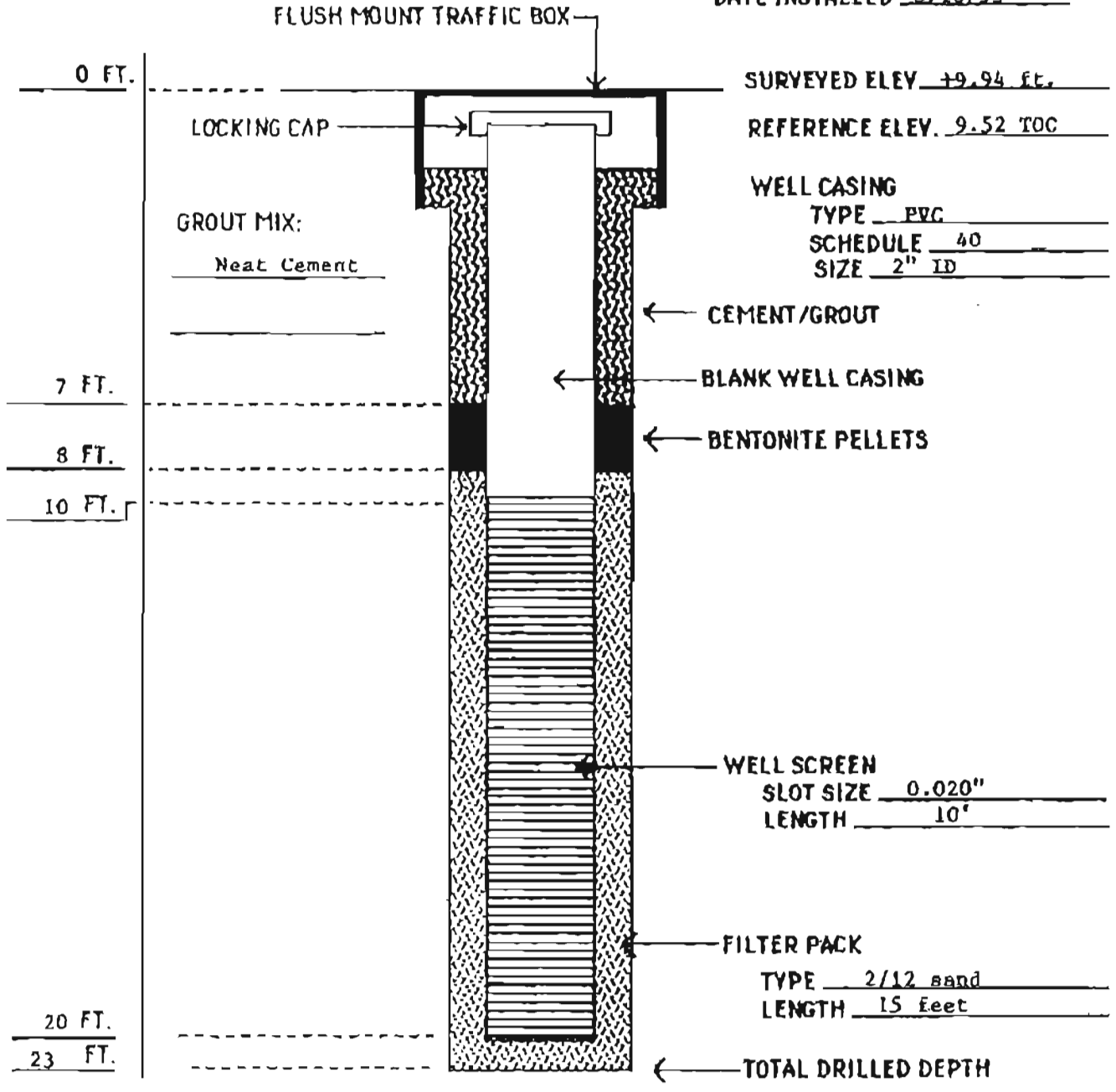
Table 1
Well Construction Details and Groundwater Elevation - December 2010
AB&I Foundry
7825 San Leandro Street
Oakland, California

Well Number	Total Depth[1] *(feet, bgs[1])*	Solid Casing[2] *(feet, bgs[1])*	Screened Interval[3] *(feet, bgs[1])*	Top of Casing *(feet, msl[4])*	Depth to Water *(feet, btoc[5])*	Groundwater Elevation *(feet, msl[6])*
MW-1	23	0-10	10-20	9.60	4.92	4.68
MW-2	17	0-8	8-17	NM	NM	Destroyed
MW-2R	20.5	0-5	5-20	7.49	NM	NM
MW-3	19.5	0-9	9-19	9.90	5.60	4.30
MW-4	26.5	0-10	10-25	10.49	6.42	4.07
MW-5	20.5	0-5	5-20	10.92	6.70	4.22
MW-6	20.5	0-5	5-20	10.19	6.86	3.33
MW-7	20.5	0-5	5-20	10.61	5.64	4.97
MW-8	20.5	0-5	5-20	11.19	7.09	4.10
MW-9	20.5	0-5	5-20	7.95	3.52	4.43

Notes:

1) feet, bgs = feet below ground surface
2) All monitoring wells constructed with 2" I.D. schedule 40 PVC; monitoring well MW-2 constructed with 4" I.D. schedule 40 PVC
3) All well casing includes .02" slotted screen
4) Top of casing elevation in feet above mean sea level (msl)
5) Depth to water below top of casing (btoc) measured on December 22, 2010
6) Groundwater elevation in feet above mean sea level (msl)

WELL NO. MW-1
PROJECT NO. P92270.3
DATE INSTALLED 3/10/93

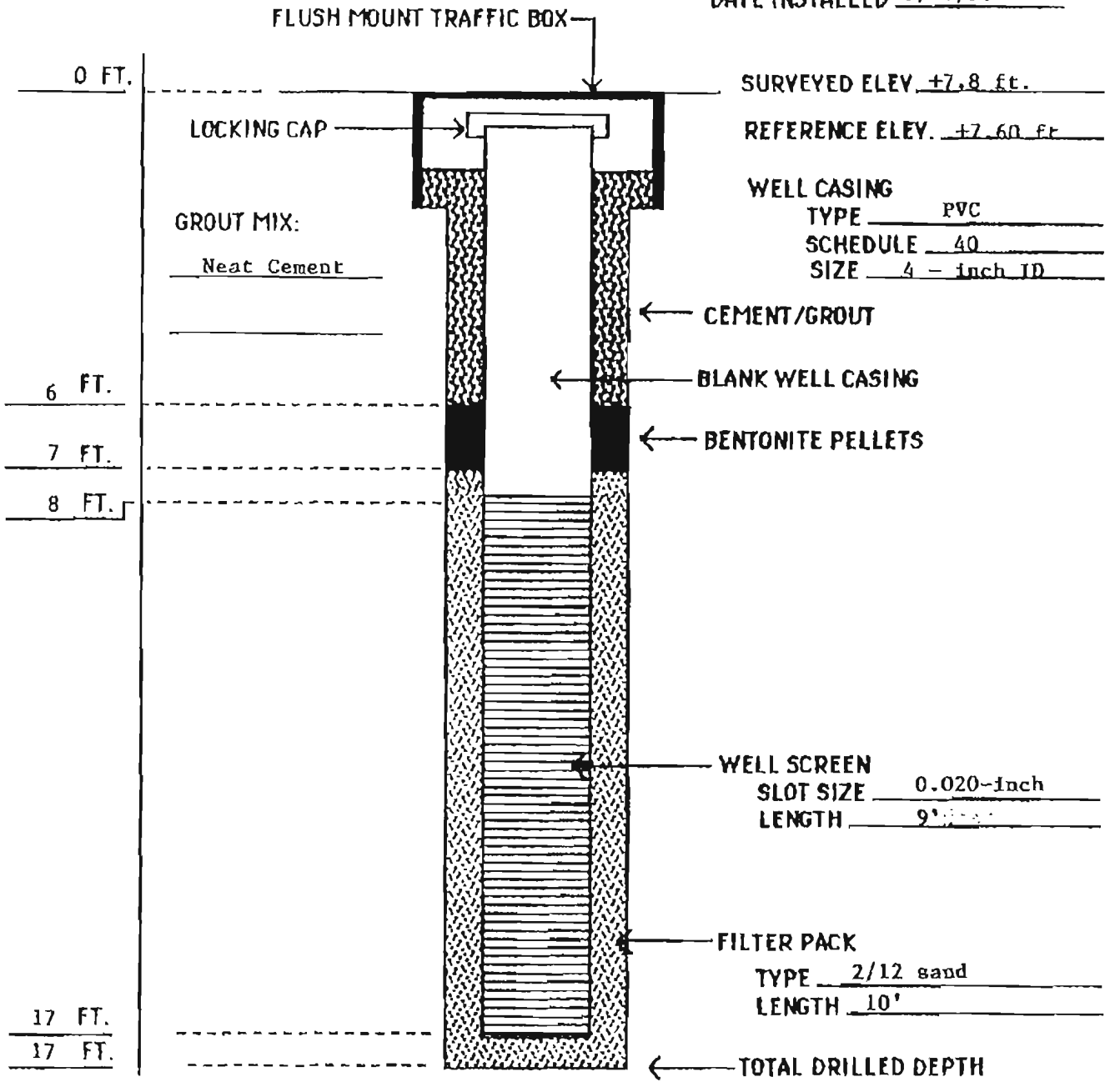


REMARKS : _____

PROJECT NO. P92270.3	MONITORING WELL INSTALLATION DIAGRAM	BSK &ASSOCIATES
FIGURE: 3		

ATTACHMENT 6

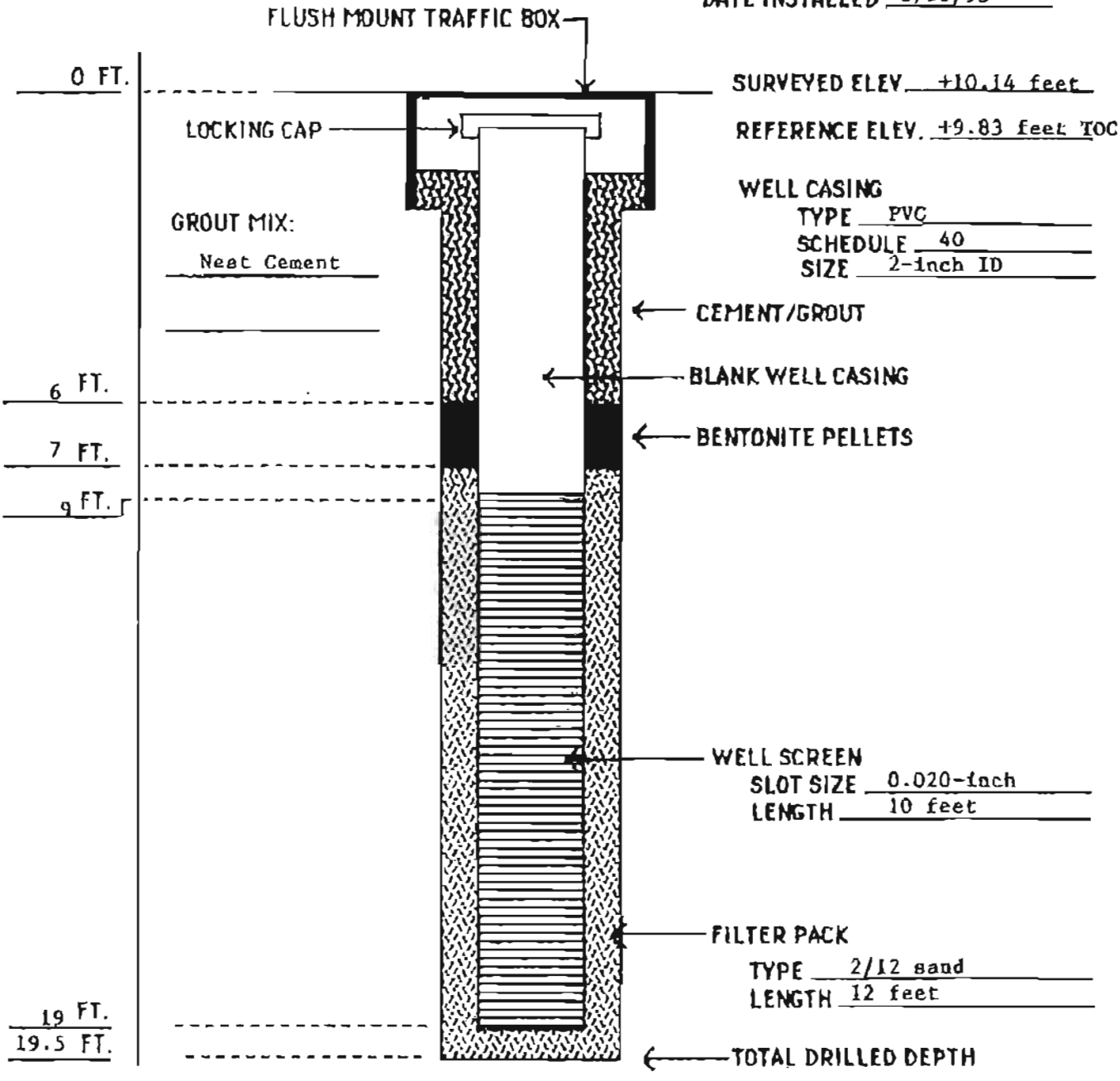
WELL NO. MW-2
PROJECT NO. P92270.3
DATE INSTALLED 3/10/93



REMARKS : _____

PROJECT NO. P92270.3 FIGURE: 4	MONITORING WELL INSTALLATION DIAGRAM	BSK &ASSOCIATES

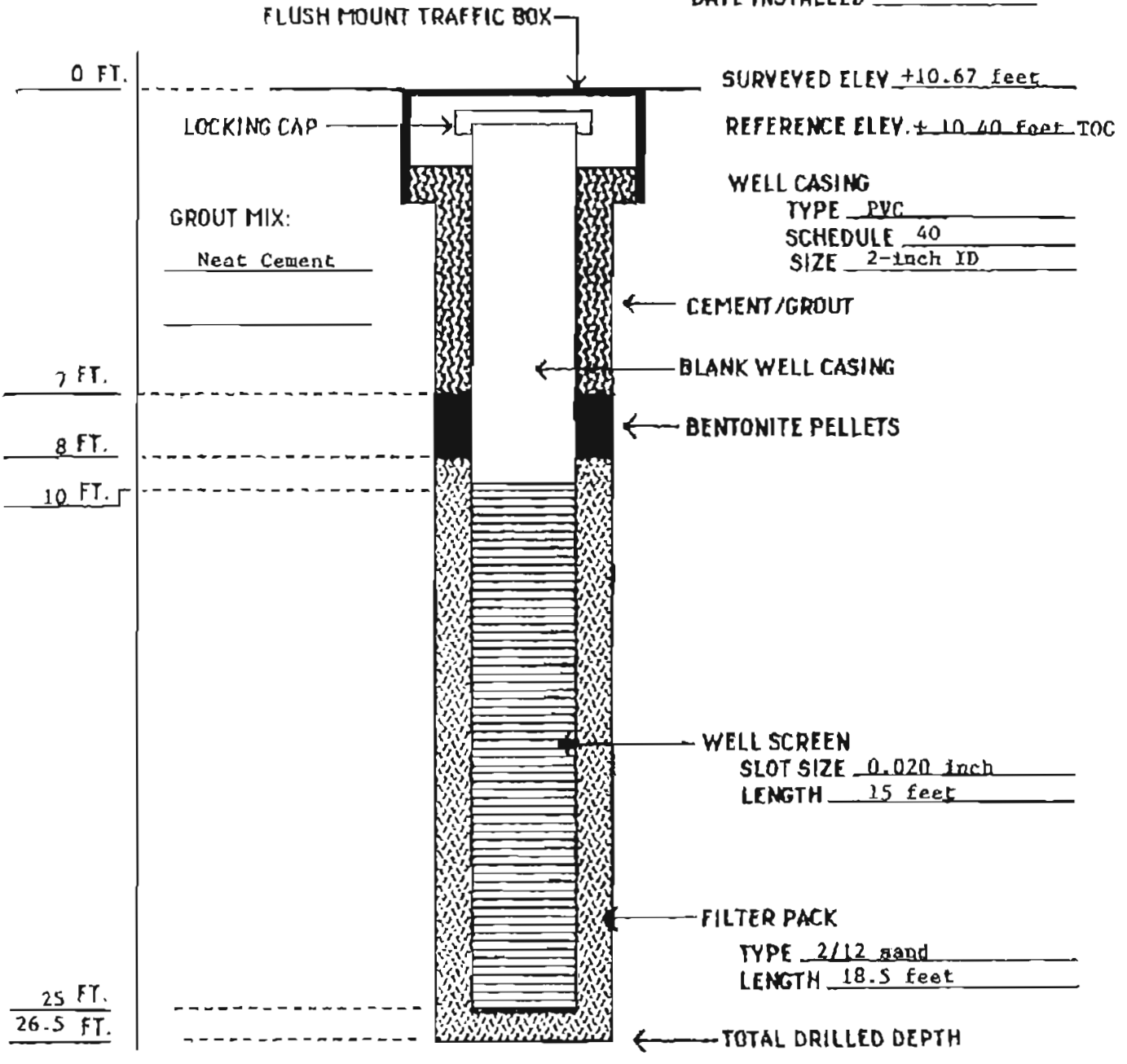
WELL NO. MW-3
PROJECT NO. P92270.3
DATE INSTALLED 3/10/93



REMARKS : _____

PROJECT NO. P92270.3 FIGURE: 5	MONITORING WELL INSTALLATION DIAGRAM	BSK &ASSOCIATES

WELL NO. MW-4
PROJECT NO. P92270.3
DATE INSTALLED 3/10/93

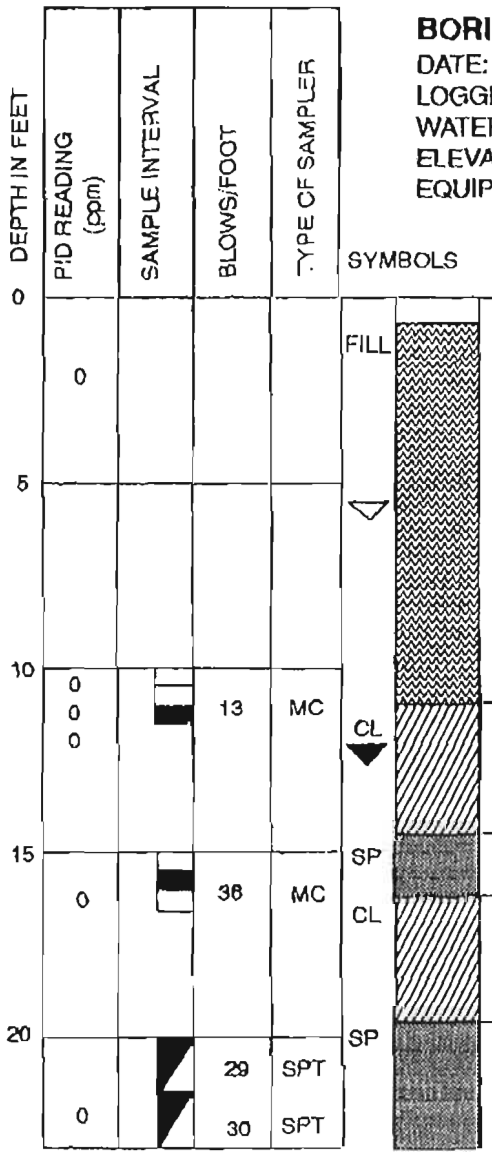


REMARKS: _____

PROJECT NO. P92270.3 FIGURE: 6	MONITORING WELL INSTALLATION DIAGRAM	BSK &ASSOCIATES

BORING LOG: MW-1

DATE: 2/17/93
LOGGED BY: T.W.B.
WATER LEVEL: 12.5 Foot depth
ELEVATION:
EQUIPMENT: Mobile Drill B-53, 8" Hollow Stem Auger



DESCRIPTION

4" concrete on raised platform.

Silty CLAY and SAND: dark to medium gray, soft to firm, moist. (FILL)

contains some small gravel

GRAVEL, CONCRETE and SLAG (?)

SAND and GRAVEL: gray, angular, fine, loose, saturated. (FILL)

Silty CLAY: mottled gray and yellow, firm to stiff, damp to moist.

SAND with some fine Gravel: Gray, medium dense.

Sandy Silty CLAY: light gray-brown, damp, hard, no to few pores.

SAND: gray to reddish brown, pebbly, dense, wet, thin (1") clay -sand lenses.
no recovery

Boring Terminated.

▽ Denotes stabilized water table

▼ Denotes water table at the time of drilling

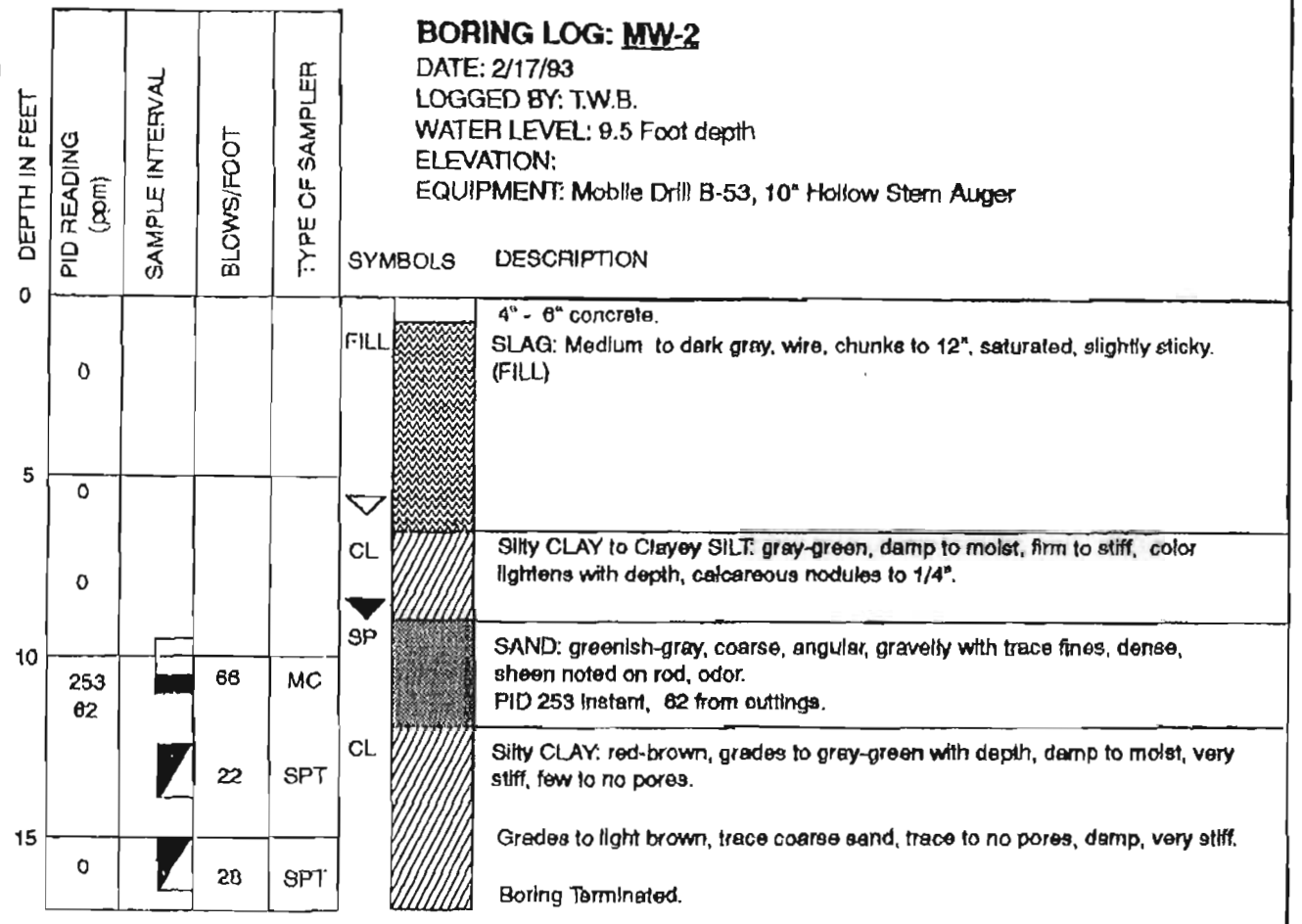
NOTES:

1. Boring completed at a depth of 23 feet on 2/17/93.
2. Sampling resistance is measured in blows per foot required to drive the sampler 12 inches with a 140 lb. hammer falling 30 inches after sampler has been seated 6 inches.
3. Boring log indicates interpreted subsurface conditions only at the location and the time the boring was drilled.
4. For an explanation of terms used see the Soil Classification Chart, Figure 3.
5. Well constructed of 2" PVC, 0.020" screen from 20' to 10', case from 10' to surface, sand from 23' to 8', bentonite from 8' to 6', cement from 6' to surface.

SHALLOW SOIL AND GROUNDWATER CHARACTERIZATION AMERICAN BRASS & IRON OAKLAND, CLAIFORNIA	Job No. P92270.3 April 1993 FIGURE: 8	**BSK** & ASSOCIATES

BORING LOG: MW-2

DATE: 2/17/93
LOGGED BY: T.W.B.
WATER LEVEL: 9.5 Foot depth
ELEVATION:
EQUIPMENT: Mobile Drill B-53, 10" Hollow Stem Auger



▽ Denotes stabilized water table

▼ Denotes water table at the time of drilling

NOTES:

1. Boring completed at a depth of 17 feet on 2/17/93.
2. Sampling resistance is measured in blows per foot required to drive the sampler 12 inches with a 140 lb. hammer falling 30 inches after sampler has been seated 6 inches.
3. Boring log indicates interpreted subsurface conditions only at the location and the time the boring was drilled.
4. For an explanation of terms used see the Soil Classification Chart, Figure 3.
5. Well constructed of 4" PVC, 0.020" screen from 17' to 8', case to surface, sand from 17' to 7', bentinite to 6', cement to surface.

SHALLOW SOIL AND GROUNDWATER CHARACTERIZATION AMERICAN BRASS & IRON OAKLAND, CALIFORNIA	Job No. P92270.3 April 1993 FIGURE: 9	BSK & ASSOCIATES

BORING LOG: MW-2R

DATE(S): 8/13/06
LOGGED BY: E. Studley
WATER LEVEL: 9 feet at time of drilling
EQUIPMENT: BK-81, 8" HSA

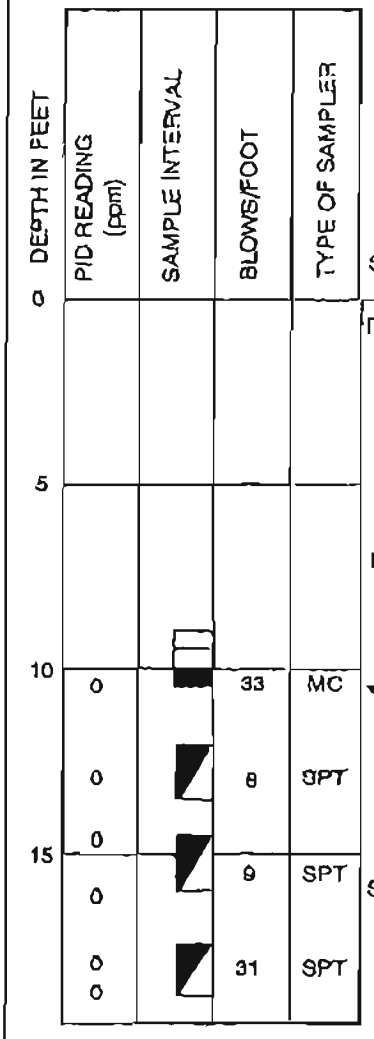
DEPTH (Feet bgs)	FIELD DATA: SAMPLER TYPE/ SAMPLE NO.	SAMPLE INTERVAL	TIME OF COLLECTION	BLOWS/FOOT	PID (ppm)	USCS	DESCRIPTION	WELL CONSTRUCTION
	Drilled with mast down no sampling					CL/CH	4" Concrete Silty Sandy Clay: Olive brown/gray, moist, medium grained sand, very soft	2" PVC 0-5' Cement 0-3' Bentonite 3-4'
5						SC	Clayey Sand: Dark gray, loose medium grained sand	2/12 Sand 20-4'
						CL	Sandy Clay: Dark olive gray, wet, very soft	Slotted PVC 20-5'
10								
15						CL/CH	Clayey Sand: Olive brown, wet, loose, medium grained sand	
						CL	Sandy Clay: Olive brown, wet, fine grained sand	
20							Total Depth Well 20'	
25								
30								
35								

BSK Engineers, Geologists, Environmental Scientists

PROJECT NAME: A B & I, Oakland, California
PROJECT NUMBER: E0605504S

BORING LOG: MW-3

DATE: 2/18/93
LOGGED BY: T.W.B.
WATER LEVEL: 11.0 Foot depth
ELEVATION:
EQUIPMENT: Mobile Drill B-53, 8" Hollow Stem Auger



SYMBOLS	DESCRIPTION
FILL	2" Asphalt concrete, with 3/4" to 1" Aggregate base. Clayey SILT and SAND: gray-brown, wet, concrete rubble to 12", cobbles to 2". (FILL)
ML	Clayey SILT: greenish-gray, damp, very stiff, calcareous.
CL	Silty CLAY: mottled blue and green with orange streaks, soft to firm, some carbonate, fractures, wet in fractures.
SM	Silty SAND: wet to moist, trace fine gravel.
SP	SAND: brown to red-brown, coarse, poorly sorted, loose, with clayey layers, wet to saturated.
CL	Silty CLAY with trace coarse Sand: gray-brown with black mottles, damp to moist, very stiff. Boring terminated.

▽ Denotes stabilized water table

▼ Denotes water table at the time of drilling

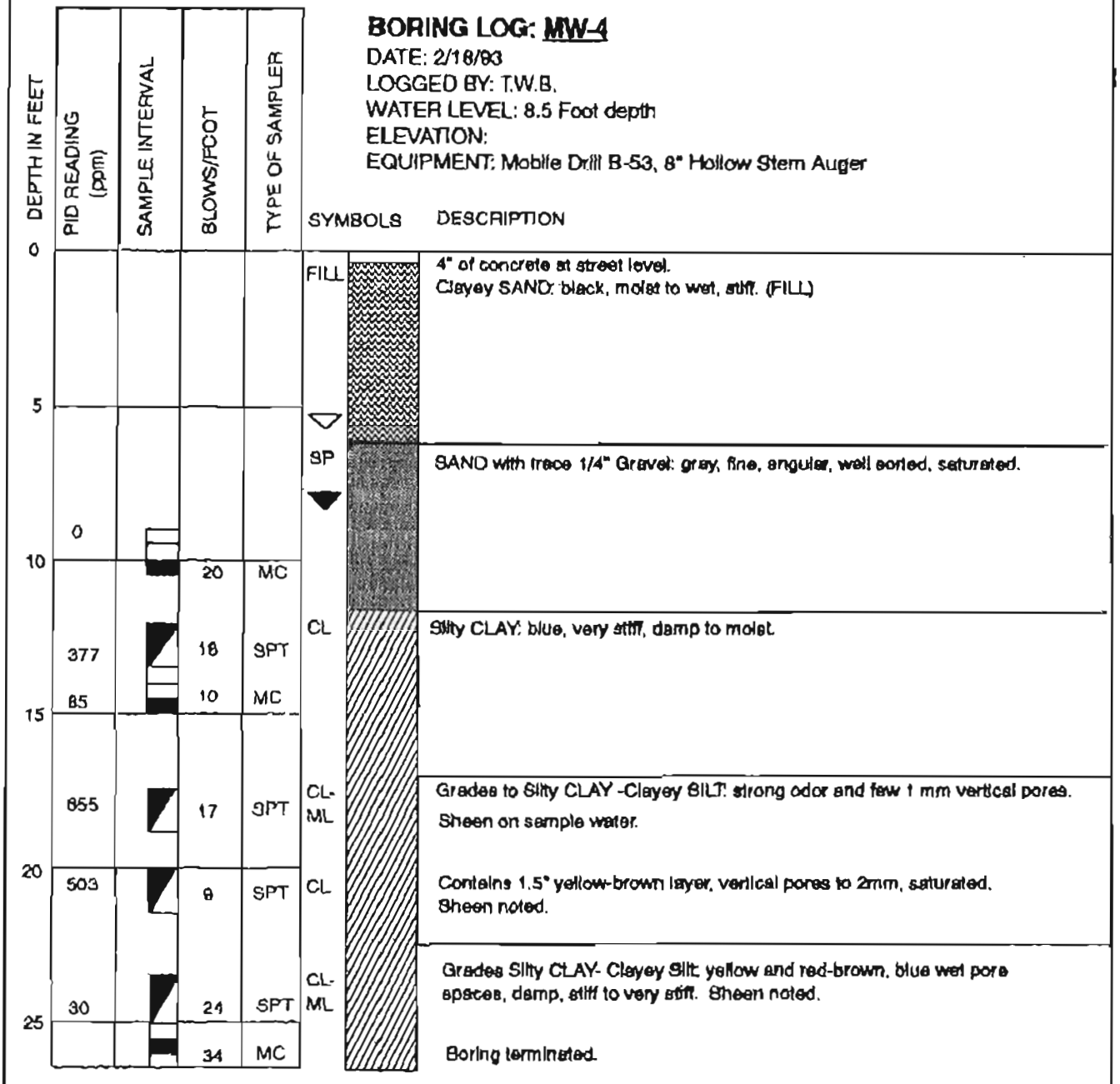
NOTES:

1. Boring completed at a depth of 19.5 feet on 2/18/93.
2. Sampling resistance is measured in blows per foot required to drive the sampler 12 inches with a 140 lb. hammer falling 30 inches after sampler has been seated 6 inches.
3. Boring log indicates interpreted subsurface conditions only at the location and the time the boring was drilled.
4. For an explanation of terms used see the Soil Classification Chart, Figure 3.
5. Well constructed of 2" PVC, 0.020" screen from 19' to 9', case to surface, sand from 19' to 7', bentinite to 6', cement to surface.

SHALLOW SOIL AND GROUNDWATER CHARACTIZATION AMERICAN BRASS & IRON OAKLAND, CALIFORNIA	Job No. P92270.3 April 1993 FIGURE: 10	**BSK** & ASSOCIATES

BORING LOG: MW-4

DATE: 2/18/93
LOGGED BY: T.W.B.
WATER LEVEL: 8.5 Foot depth
ELEVATION:
EQUIPMENT: Mobile Drill B-53, 8" Hollow Stem Auger



▽ Denotes stabilized water table

▼ Denotes water table at the time of drilling

NOTES:

1. Boring completed at a depth of 26.5 feet on 2/18/93.
2. Sampling resistance is measured in blows per foot required to drive the sampler 12 inches with a 140 lb. hammer falling 30 inches after sampler has been seated 6 inches.
3. Boring log indicates interpreted subsurface conditions only at the location and the time the boring was drilled.
4. For an explanation of terms used see the Soil Classification Chart, Figure 9.
5. Well constructed of 2" PVC, 0.020" screen from 25' to 10', case to surface, sand from 26.5' to 8', bentonite to 7', cement to surface.

SHALLOW SOIL AND GROUNDWATER CHARACTERIZATION AMERICAN BRASS & IRON OAKLAND, CALIFORNIA	Job No. P92270.3 April 1993 FIGURE: 11	**BSK** & ASSOCIATES

BORING LOG: MW-5

DATE(S): 8/12/08

LOGGED BY: E. Studley

WATER LEVEL: 13 feet at time of drilling

EQUIPMENT: CME-75, 8" HSA

DEPTH (Feet bgs)	FIELD DATA: SAMPLER TYPE/ SAMPLE NO.	SAMPLE INTERVAL	TIME OF COLLECTION	BLOWS/FOOT	PID (ppm)	USCS	DESCRIPTION	WELL CONSTRUCTION
						Fill	3" Asphalt Concrete Silty Sandy Gravel: Yellow brown, damp, (Fill)	2" PVC 0-5'
	CS-1		11:05	32		CL/CH	Sandy Silty Clay: Dark gray, damp to moist, fine grained sand	Cement 0-3' Bentonite 3-4'
5	CS-2		11:08	11		CH	Silty Clay: Dark gray, moist, soft, trace organics	2/12 Sand 20-4'
	CS-3		11:12	12				Slotted PVC 20-5'
10	CS-4		11:15	11			Silty Clay: Brown mottled olive gray, moist, soft	
15	CS-5		11:18	4		CL/CH	Silty Sandy Clay: Olive brown, wet, soft medium grained sand	
							grades mottled olive brown/gray	Total Depth Well 20'
20	CS-6		11:24	21		SC	Clayey Silty Sand: Gray brown, medium grained sand	
25								
30								
35								

BSK Engineers, Geologists, Environmental Scientists

PROJECT NAME: A B & I, Oakland, California

PROJECT NUMBER: E0605504S

BORING LOG: MW-6

DATE(S): 8/12/06
LOGGED BY: M. Cline
WATER LEVEL: 13 feet at time of drilling
EQUIPMENT: CME-75, 8" HSA

DEPTH (Feet bgs)	FIELD DATA: SAMPLER TYPE/ SAMPLE NO.	SAMPLE INTERVAL	TIME OF COLLECTION	BLOWS/FOOT	PID (ppm)	USCS	DESCRIPTION	WELL CONSTRUCTION
						Fill	3" Asphalt Concrete Silty Sandy Gravel: Brown, damp, (Fill)	2" PVC 0-5'
	CS-1		9:10	10		CL/CH Fill	Sandy Silty Clay: Dark gray brown, moist, trace gravel, wood, brick (Fill)	Cement 0-3' Bentonite 3-4'
5	CS-2		9:15	12		CH	Silty Clay: Dark gray, moist, soft, trace organics	2/12 Sand 20-4'
	CS-3		9:18	14			grades dark gray to olive gray, very moist	Slotted PVC 20-5'
10	CS-4		9:21	15			Silty Clay: Brown mottled olive gray, very moist to wet in pores, some carbonates	
15	CS-5		9:25	10		CL/SC	Silty Clay/Clayey Sand: Brown to light olive brown, wet	
20	CS-6		9:38	6		CL/CH	Silty Clay: Brown to light olive brown, wet	Total Depth Well 20'
25								
30								
35								

BSK Engineers, Geologists, Environmental Scientists

PROJECT NAME: A B & I, Oakland, California
PROJECT NUMBER: E0605504S

BORING LOG: MW-7

DATE(S): 8/12/06
LOGGED BY: E. Studley
WATER LEVEL: 13 feet at time of drilling
EQUIPMENT: CME-75, 8" HSA

DEPTH (Feet bgs)	FIELD DATA: SAMPLER TYPE/ SAMPLE NO.	SAMPLE INTERVAL	TIME OF COLLECTION	BLOWS/FOOT	PID (ppm)	USCS	DESCRIPTION	WELL CONSTRUCTION
						Fill	4" Concrete Silty Sandy Gravel: Yellow brown, damp, (Fill)	2" PVC 0-5'
	CS-1		15:26	29		CL/CH Fill	Silty Clay: Dark gray, damp, gravels to 1.5" glass, slag, concrete (Fill)	Cement 0-3' Bentonite 3-4'
5	NR		15:30	18				2/12 Sand 20-4'
	CS-2		15:34	11		CH	Silty Clay: Dark gray, wet, strong hydrocarbon odor	Slotted PVC 20-5'
10	CS-3		15:45	4			grades to dark gay mottled light gray wet, slight odor, roots/wood fragments	
15	CS-4		15:50	7		CL/CH	Sandy Silty Clay: Olive brown/gray, wet, soft, medium grained sand, faint odor	
							grades to olive gray	Total Depth Well 20'
20	CS-5		16:01	9				
25								
30								
35								

BSK Engineers, Geologists, Environmental Scientists

PROJECT NAME: A B & I, Oakland, California
PROJECT NUMBER: E0605504S

BORING LOG: MW-8
DATE(S): 8/12/06
LOGGED BY: E. Studley
WATER LEVEL: 13 feet at time of drilling
EQUIPMENT: CME-75, 8" HSA

DEPTH (Feet bgs)	SAMPLER TYPE/ SAMPLE NO.	SAMPLE INTERVAL	TIME OF COLLECTION	BLOWS/FOOT	PID (ppm)	USCS	DESCRIPTION	WELL CONSTRUCTION
						Fill	3" Asphalt Concrete Silty Sandy Gravel: Yellow brown, moist, (Fill)	2" PVC 0-5'
	CS-1	■	13:00	20		CL/CH Fill	Silty Clay: Dark olive brown, damp, gravels, wire, debris (Fill)	Cement 0-3' Bentonite 3-4'
5	CS-2	■	13:02	8		CL/CH	Silty Clay: Dark olive brown, moist to wet medium grained sand lenses	2/12 Sand 20-4'
	CS-3	■	13:08	12				Slotted PVC 20-5'
10	NR	□		13		CH	grades to olive brown mottled gray	
15	CS-4	■	13:29	5		CL/CH	Silty Sandy Clay: Olive brown, wet, soft, medium grained sand trace carbonates	Total Depth Well 20'
20	CS-5	■	13:36	15				
25								
30								
35								

BSK Engineers, Geologists, Environmental Scientists

PROJECT NAME: A B & I, Oakland, California
PROJECT NUMBER: E0605504S

BORING LOG: MW-9

DATE(S): 8/18/06
LOGGED BY: J. Yeazell
WATER LEVEL: 8 feet at time of drilling
EQUIPMENT: Marl Limited Access, 8" HSA

DEPTH (Feet bgs)	FIELD DATA: SAMPLER TYPE/ SAMPLE NO.	SAMPLE INTERVAL	TIME OF COLLECTION	BLOWS/FOOT	PID (ppm)	USCS	DESCRIPTION	WELL CONSTRUCTION
						Fill	6" Concrete Silty Clay: Dark gray, some concrete debris	2" PVC 0-5' Cement 0-3'
	DP-1		10:57			CH	Silty Clay: Dark gray, hydrocarbon odor	Bentonite 3-4'
5	DP-2		11:03					2/12 Sand 20-4'
	DP-3		11:10			CH	Silty Clay: Olive brown/brown, no odor	Slotted PVC 20-5'
10	DP-4		11:29				grades wet, slight odor	
15	DP-5		11:36				some fine sand, odor	
								Total Depth Well 20'
20	DP-6		11:40					
25								
30								
35								

BSK Engineers, Geologists, Environmental Scientists

PROJECT NAME: A B & I, Oakland, California
PROJECT NUMBER: E0605504S

SGI environmental	THE SOURCE GROUP, INC.	BORING/WELL ID: SB-1

PROJECT NAME AND ADDRESS:	A&I Foundry	Project No.	01-ABI-001
BORING LOCATION (AT SITE):	3 10,000 Gallon USTs	Logged By:	Nathan Collon
CONTRACTOR AND EQUIPMENT:	Vironex Geoprobe		
SAMPLING METHOD:	Continuous	MONITORING DEVICE:	MiniRae 2000
START DATE/ (TIME):	10/30/2007 9:10	FINISH DATE/ TIME	10/30/2007 11:10
FIRST WATER (BGS):	21.5'	STABILIZED WATER LEVEL:	
SURFACE ELEVATION:		CASING TOP ELEVATION:	
TOTAL BORING DEPTH(S):	30'	BORING DIAMETER/DEPTH:	3 1/4" / 30'

Date/Time	Sample Interval	PID (ppm)	Recovery	Stratigraphy	Depth (feet)	Water-level	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED	Well construction details
					0			
					1		No recovery.	
	X				2		Silty gravelly clay, medium brown, moist (fill).	
					3			
	X				4			
					5			
					6			
		300			7			
					8			
	X				9			
					10		Clay (CL), black (5Y, 2.5/1), moist, stiff, medium plasticity, no odor.	
					11			
					12			
					13			
	X	1300			14			
					15			
					16			
					17			
					18		Same as above, but more moist, softer, petroleum odor.	
					19			
					20			

SGI environmental **THE SOURCE GROUP, INC.**

BORING/WELL ID: SB-1

PROJECT NAME AND ADDRESS:	AB&I Foundry	Project No.	01-ABI-001
BORING LOCATION (AT SITE):	3 10,000 Gallon USTs	Logged By:	Nathan Colton
CONTRACTOR AND EQUIPMENT:	Vironex Geoprobe		
SAMPLING METHOD:	Continuous	MONITORING DEVICE:	MiniRae 2000
START DATE/ (TIME):	10/30/2007 9:10	FINISH DATE/ TIME	10/30/2007 11:10
FIRST WATER (BGS):	21.5'	STABILIZED WATER LEVEL:	
SURFACE ELEVATION:		CASING TOP ELEVATION:	
TOTAL BORING DEPTH(S):	30'	BORING DIAMETER/DEPTH:	3 1/4" / 30'

Date/Time	Sample Interval	PID (ppm)	Recovery	Stratigraphy	Depth (feet)	Water-level	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED	Well construction details
					20			
					21	▼		
					22			
		0.9			23		Sandy gravel (SP), coarse grained, wet, poorly sorted, loose, no odor, gravel pieces.	
	☒				24			
					25			
					26			
					27		Silty clay (CL), light yellowish brown (10YR, 6/4), wet, medium plasticity, no odor	
	☒				28			
					29			
					30		Bottom of Boring 30'	
					31			
					32			
					33			
					34			
					35			
					36			
					37			
					38			
					39			
					40			

SGI environmental	THE SOURCE GROUP, INC.	BORING/WELL ID: SB-2	
PROJECT NAME AND ADDRESS:	AB&I Foundry	Project No.	01-ABI-001
BORING LOCATION (AT SITE):	3 10,000 Gallon USTs	Logged By:	Nathan Colton
CONTRACTOR AND EQUIPMENT:	Vironex Geoprobe		
SAMPLING METHOD:	Continuous	MONITORING DEVICE:	MiniRae 2000
START DATE/ (TIME):	10/30/2007 11:15	FINISH DATE/ TIME	10/30/2007 1245
FIRST WATER (BGS):	16'	STABILIZED WATER LEVEL:	
SURFACE ELEVATION:		CASING TOP ELEVATION:	
TOTAL BORING DEPTH(S):	25'	BORING DIAMETER/DEPTH:	3 1/4" / 25'

Date/Time	Sample Interval	PID (ppm)	Recovery	Stratigraphy	Depth (feet)	Water-level	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED	Well construction details
					0			
					1		Cement debris.	
	X				2		Silty Gravelly Clay(fill), olive brown, moist, stiff, medium plasticity, strong petroleum odor.	
					3			
	X				4			
					5			
					6			
		300			7			
					8			
	X				9			
					10			
					11			
					12		Clay (CL), black, moist, very stiff, medium plasticity, petroleum odor.	
					13			
	X				14			
					15			
					16	▼	Sandy gravel (SP), dark gray, coarse grained subangular gravel 1/4" to 1/2", wet, petroleum odor	
					17			
					18		Clay (CL), olive brown, moist, stiff, medium plasticity, petroleum odor.	
					19			
	X				20			

SGI environmental **THE SOURCE GROUP, INC.**

BORING/WELL ID: **SB-2**

PROJECT NAME AND ADDRESS:	AB&I Foundry	Project No.	01-ABI-001
BORING LOCATION (AT SITE):	3 10,000 Gallon USTs	Logged By:	Nathan Collon
CONTRACTOR AND EQUIPMENT:	Vironex Geoprobe		
SAMPLING METHOD:	Continuous	MONITORING DEVICE:	MiniRae 2000
START DATE/ (TIME):	10/30/2007 11:15	FINISH DATE/ TIME	10/30/2007 12:45
FIRST WATER (BGS):	18'	STABILIZED WATER LEVEL:	
SURFACE ELEVATION:		CASING TOP ELEVATION:	
TOTAL BORING DEPTH(S):	25'	BORING DIAMETER/DEPTH:	3 1/4" / 25'

Date/Time	Sample Interval	PID (ppm)	Recovery	Stratigraphy	Depth (feet)	Water-level	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED	Well construction details
		1400			20			
					21		Sandy gravel (SP), coarse grained, sub-angular 1/4" to 1/2", poorly sorted, wet, no odor.	
					22			
					23		Clay (CL), medium brown, wet, tight, medium plasticity, no odor.	
	X	2			24			
					25		Bottom of Boring 25'	
					26			
					27			
					28			
					29			
					30			
					31			
					32			
					33			
					34			
					35			
					36			
					37			
					38			
					39			
					40			

SGI environmental **THE SOURCE GROUP, INC.**

BORING/WELL ID: **SB-3**

PROJECT NAME AND ADDRESS:	AB&I Foundry	Project No.	01-ABI-001
BORING LOCATION (AT SITE):	3 10,000 Gallon USTs	Logged By:	Nathan Colton
CONTRACTOR AND EQUIPMENT:	Vironex Geoprobe		
SAMPLING METHOD:	Continuous	MONITORING DEVICE:	MiniRae 2000
START DATE/ (TIME):	10/30/2007 1340	FINISH DATE/ TIME	10/30/2007 1420
FIRST WATER (BGS):	21'	STABILIZED WATER LEVEL:	
SURFACE ELEVATION:		CASING TOP ELEVATION:	
TOTAL BORING DEPTH(S):	25'	BORING DIAMETER/DEPTH:	3 1/4" / 25'

Date/Time	Sample Interval	PID (ppm)	Recovery	Stratigraphy	Depth (feet)	Water-level	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED	Well construction details
					0			
					1		Cement debris.	
					2		Gravely sand (SP) with chunks of asphalt, reddish brown, moist, sub-angular, (fill).	
	X				3			
	X				4		Gravely sand (SP) with chunks of asphalt, reddish brown, moist, sub-angular, (fill).	
					5			
					6		No recovery.	
					7			
		140			8			
	X				9			
					10			
					11			
					12		Clay (CL), gray, wet, soft, medium plasticity, petroleum odor.	
					13			
	X	120			14			
					15			
					16			
					17			
					18			
					19			
	X	112			20		Clay (CL), gray, wet, stiff, medium plasticity, petroleum odor.	

SGI environmental	THE SOURCE GROUP, INC.		BORING/WELL ID: SB-3	
PROJECT NAME AND ADDRESS:	AB&I Foundry		Project No.	01-ABI-001
BORING LOCATION (AT SITE):	3 10,000 Gallon USTs		Logged By:	Nathan Colton
CONTRACTOR AND EQUIPMENT:	Vironex Geoprobe			
SAMPLING METHOD:	Continuous	MONITORING DEVICE:	MiniRae 2000	
START DATE/ (TIME):	10/30/2007 13:40:00 AM	FINISH DATE/ TIME	10/30/2007 14:20:00 AM	
FIRST WATER (BGS):	21'	STABILIZED WATER LEVEL:		
SURFACE ELEVATION:		CASING TOP ELEVATION:		
TOTAL BORING DEPTH(S):	25'	BORING DIAMETER/DEPTH:	3 1/4" / 25'	

Date/Time	Sample Interval	PID (ppm)	Recovery	Stratigraphy	Depth (feet)	Water-level	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED	Well construction details
					20	▼		
					21		Sand (SP), medium grained, wet, loose, no odor.	
					22		Sandy gravel, coarse grained, sub-angular 1/2" to 3/4", poorly sorted, no odor.	
					23			
					24		Silty clay (CL), light to medium brown, wet, stiff, medium plasticity, no odor.	
	☒	0						
					25		**Bottom of Boring 25'**	
					26			
					27			
					28			
					29			
					30			
					31			
					32			
					33			
					34			
					35			
					36			
					37			
					38			
					39			
					40			

SGI environmental **THE SOURCE GROUP, INC.**

BORING/WELL ID: **SB-4**

PROJECT NAME AND ADDRESS:	AB&I Foundry	Project No.	01-ABI-001
BORING LOCATION (AT SITE):	3 10,000 Gallon USTs	Logged By:	Nathan Collon
CONTRACTOR AND EQUIPMENT:	Vironex Geoprobe		
SAMPLING METHOD:	Continuous	MONITORING DEVICE:	MiniRae 2000
START DATE/ (TIME):	10/30/2007 14:30	FINISH DATE/ TIME	10/30/2007 15:20
FIRST WATER (BGS):	21.5'	STABILIZED WATER LEVEL:	
SURFACE ELEVATION:		CASING TOP ELEVATION:	
TOTAL BORING DEPTH(S):	24'	BORING DIAMETER/DEPTH:	3 1/4" / 24'

Date/Time	Sample Interval	PID (ppm)	Recovery	Stratigraphy	Depth (feet)	Water-level	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED	Well construction details
					0			
					1		Cement debris.	
					2		Gravely sand (SP) with chunks of asphalt, reddish brown, moist, sub-angular, (fill).	
	X				3			
	X				4		Clay (CL), black, moist, stiff, medium plasticity, no odor.	
					5		No recovery.	
					6			
					7			
					8		Clay (CL), black, moist, stiff, medium plasticity, no odor	
	X				9			
					10			
					11			
					12			
					13			
	X				14			
		700			15			
					16			
					17			
					18			
					19			
	X	200			20			

SGI environmental **THE SOURCE GROUP, INC.**

BORING/WELL ID: **SB-4**

PROJECT NAME AND ADDRESS:	AB&I Foundry	Project No.	01-ABI-001
BORING LOCATION (AT SITE):	3 10,000 Gallon USTs	Logged By:	Nathan Colton
CONTRACTOR AND EQUIPMENT:	Vironex Geoprobe		
SAMPLING METHOD:	Continuous	MONITORING DEVICE:	MiniRae 2000
START DATE/ (TIME):	10/30/2007 14:30	FINISH DATE/ TIME	10/30/2007 15:20
FIRST WATER (BGS):	21.5'	STABILIZED WATER LEVEL:	
SURFACE ELEVATION:		CASING TOP ELEVATION:	
TOTAL BORING DEPTH(S):	24'	BORING DIAMETER/DEPTH:	3 1/4" / 24'

Date/Time	Sample Interval	PID (ppm)	Recovery	Stratigraphy	Depth (feet)	Water-level	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED	Well construction details
					20		Gravely sand (SP) with	
					21	▼	Sandy gravel, coarse grained, sub-angular 1/4" to 3/4", wet, no odor.	
					22			
	X				23		Clay (CL), black, moist, stiff, medium plasticity, no odor Refusal @ 24'	
					24		Bottom of Boring 24'	
					25			
					26			
					27			
					28			
					29			
					30			
					31			
					32			
					33			
					34			
					35			
					36			
					37			
					38			
					39			
					40			

SGI environmental **THE SOURCE GROUP, INC.**

BORING/WELL ID: **SB-5**

PROJECT NAME AND ADDRESS:	AB&I Foundry	Project No.	01-ABI-001
BORING LOCATION (AT SITE):	3 10,000 Gallon USTs	Logged By:	Nathan Collon
CONTRACTOR AND EQUIPMENT:	Vironex Geoprobe		
SAMPLING METHOD:	Continuous	MONITORING DEVICE:	MiniRae 2000
START DATE/ (TIME):	10/31/2007 8:00	FINISH DATE/ TIME	10/31/2007 8:52
FIRST WATER (BGS):	21.5'	STABILIZED WATER LEVEL:	
SURFACE ELEVATION:		CASING TOP ELEVATION:	
TOTAL BORING DEPTH(S):	25'	BORING DIAMETER/DEPTH:	3 1/4" / 25'

Date/Time	Sample Interval	PID (ppm)	Recovery	Stratigraphy	Depth (feet)	Water-level	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED	Well construction details
					0			
					1		Cement debris.	
					2		Clay (CL), black with pieces at gravel 3/4" subangular, light medium plasticity, petroleum odor.	
	X				3			
	X				4			
					5		No recovery.	
					6			
					7		Clay (CL), black, moist, stiff, medium plasticity, petroleum odor.	
					8			
	X				9			
					10		Clay (CL), olive brown, stiff, moist, medium plasticity, petroleum odor	
					11			
					12			
					13		Same as above but more of a light gray to olive brown color.	
	X				14			
		200			15		Clay with trace silt (CL), light to medium gray, wet, soft, petroleum odor.	
					16		Area more wet and more silty but same as above.	
					17			
					18		Clay (CL), light to medium gray, wet, soft, low plasticity, petroleum odor.	
					19			
	X	700			20			

SGI environmental **THE SOURCE GROUP, INC.**

BORING/WELL ID: **SB-5**

PROJECT NAME AND ADDRESS:	AB&I Foundry	Project No.	01-ABI-001
BORING LOCATION (AT SITE):	3 10,000 Gallon USTs	Logged By:	Nathan Colton
CONTRACTOR AND EQUIPMENT:	Vironex Geoprobe		
SAMPLING METHOD:	Continuous	MONITORING DEVICE:	MiniRae 2000
START DATE/ (TIME):	10/31/2007 800	FINISH DATE/ TIME	10/31/07 852
FIRST WATER (BGS):	21.5'	STABILIZED WATER LEVEL:	
SURFACE ELEVATION:		CASING TOP ELEVATION:	
TOTAL BORING DEPTH(S):	25'	BORING DIAMETER/DEPTH:	3 1/4" / 25'

Date/Time	Sample Interval	PID (ppm)	Recovery	Stratigraphy	Depth (feet)	Water-level	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED	Well construction details
					20		Silty clay (CL), light to medium gray, wet, soft, low plasticity, petroleum odor.	
					21	▼		
					22		Sandy gravel (SP), coarse grained, 1/4" to 3/4" subangular gravel pieces, poorly sorted, wet, no odor.	
					23			
					24		Clay (CL), light brown, moist, stiff, medium plasticity, no odor.	
					25		Bottom of Boring 25'	
					26			
					27			
					28			
					29			
					30			
					31			
					32			
					33			
					34			
					35			
					36			
					37			
					38			
					39			
					40			

SGI environmental **THE SOURCE GROUP, INC.**

BORING/WELL ID: **SB-6**

PROJECT NAME AND ADDRESS:	AB&I Foundry	Project No.	01-ABI-001
BORING LOCATION (AT SITE):	10,000 gal VST	Logged By:	Nathan Colton
CONTRACTOR AND EQUIPMENT:	Vironex Geoprobe		
SAMPLING METHOD:	Continuous	MONITORING DEVICE:	MiniRae 2000
START DATE/ (TIME):	11/5/2007 900	FINISH DATE/ TIME	
FIRST WATER (BGS):	6.5'	STABILIZED WATER LEVEL:	
SURFACE ELEVATION:		CASING TOP ELEVATION:	
TOTAL BORING DEPTH(S):	24'	BORING DIAMETER/DEPTH:	3 1/4" 24'

Date/Time	Sample Interval	PID (ppm)	Recovery	Stratigraphy	Depth (feet)	Water-level	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED	Well construction details
					0			
					1		Cement debris.	
		5			2		Clay (CL), black, moist, stiff, medium plasticity, organic odor, chunks of gravel.	
					3			
					4			
	X				5			
					6			
					7			
					8			
	X	20			9		Clay (CL), dark gray (2.5Y 4/1), stiff, medium plasticity, faint petroleum odor	
					10			
					11			
					12		Clay (CL), dark greenish gray (GLEY 2 4/1), moist, tight, medium plasticity, no odor.	
					13			
	X	5			14			
					15		Silty clay (CL), moist, soft, low plasticity, no odor.	
					16			
					17		Same as above but tighter.	
					18			
					19		Clay (CL), light gray, moist, tight, medium plasticity, no odor.	
					20		20' -- 24' – No recovery – GW sample @ 23'	

SGI environmental **THE SOURCE GROUP, INC.**

BORING/WELL ID: **SB-7**

PROJECT NAME AND ADDRESS:	AB&I Foundry	Project No.	01-ABI-001
BORING LOCATION (AT SITE):	Warehouse	Logged By:	Nathan Colton
CONTRACTOR AND EQUIPMENT:	Vironex Geoprobe		
SAMPLING METHOD:	Macro	MONITORING DEVICE:	MiniRae 2000
START DATE/ (TIME):	10/31/07 1045	FINISH DATE/ TIME	10/31/07 1200
FIRST WATER (BGS):	17'	STABILIZED WATER LEVEL:	
SURFACE ELEVATION:		CASING TOP ELEVATION:	
TOTAL BORING DEPTH(S):	20'	BORING DIAMETER/DEPTH:	20'

Date/Time	Sample Interval	PID (ppm)	Recovery	Stratigraphy	Depth (feet)	Water-level	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED	Well construction details
					0			
					1		Concrete debris stiff.	
		7.6			2			
					3		Clay (CL), black, moist, medium plasticity, slight hydrocarbon odor?	
					4			
	X				5			
					6		Clay (CL), very dark gray (10YR 3/1), moist, stiff, medium plasticity, no odor.	
					7			
					8			
					9			
					10		Same as above but dark yellowish brown (10YR 4/4)	
					11			
		140			12		Clay (CL), dark greenish gray (GLEY1 5/1), moist, stiff, medium plasticity, petroleum odor (faint).	
					13			
		500			14			
	X				15		Silty clay (CL), dark greenish gray, wet, soft, low plasticity, no odor.	
					16			
					17			
					18		Clay (CL), dark greenish gray, moist, stiff, medium plasticity, no odor.	
					19		Silty gravel (SP), greenish gray, 1/4" subangular, moist, poorly sorted, no odor.	
					20			

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BORING/WELL ID: **SB-8**

PROJECT NAME AND ADDRESS:	AB&I Foundry	Project No.	01-ABI-001
BORING LOCATION (AT SITE):	Warehouse	Logged By:	Nathan Colton
CONTRACTOR AND EQUIPMENT:	Vironex Geoprobe		
SAMPLING METHOD:	Macrocore	MONITORING DEVICE:	MiniRae 2000
START DATE/ (TIME):	10/31/07 1240	FINISH DATE/ TIME	10/31/07 1340
FIRST WATER (BGS):	17'	STABILIZED WATER LEVEL:	
SURFACE ELEVATION:		CASING TOP ELEVATION:	
TOTAL BORING DEPTH(S):	20'	BORING DIAMETER/DEPTH:	20'

Date/Time	Sample Interval	PID (ppm)	Recovery	Stratigraphy	Depth (feet)	Water-level	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED	Well construction details
					0			
					1		Cement debris.	
					2		Sandy gravel (asphalt), black, dry, poorly sorted, no odor.	
					3			
					4			
					5		Clay (CL), dark brown/black, moist, stiff, medium plasticity, no odor.	
					6			
					7		Clay (CL), dark olive brown, moist, stiff, medium plasticity, no odor.	
					8			
					9		Same as above but olive brown, more silt component.	
					10			
		16			11		Clay (CL), dark bluish gray (GLEY2 4/1), moist, stiff, medium plasticity, faint petroleum odor.	
					12			
					13			
	X	544			14		Same as above but stronger petroleum odor.	
					15			
					16	▼		
					17		Silty clay (CL) with some gravel, wet, soft, low plasticity, no odor	
					18			
					19		Clay (CL), medium gray, moist, stiff, medium plasticity, no odor	
					20		Total Depth 20'	

SGI environmental **THE SOURCE GROUP, INC.**

BORING/WELL ID: **SB-9**

PROJECT NAME AND ADDRESS:	A&I Foundry	Project No.	01-ABI-001
BORING LOCATION (AT SITE):	Warehouse	Logged By:	Nathan Colton
CONTRACTOR AND EQUIPMENT:	Vironex Geoprobe		
SAMPLING METHOD:	Continuous	MONITORING DEVICE:	MiniRae 2000
START DATE/ TIME):	10/31/07 1335	FINISH DATE/ TIME	10/31/07 1420
FIRST WATER (BGS):	17'	STABILIZED WATER LEVEL:	
SURFACE ELEVATION:		CASING TOP ELEVATION:	
TOTAL BORING DEPTH(S):	20'	BORING DIAMETER/DEPTH:	20'

Date/Time	Sample Interval	PID (ppm)	Recovery	Stratigraphy	Depth (feet)	Water-level	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED	Well construction details
					0			
					1		Cement debris.	
					2		Sandy gravel (asphalt), black, dry, poorly sorted.	
					3			
					4			
					5		Clay (CL), dark gray, moist, stiff, medium plasticity, no odor.	
					6			
					7		Clay (CL), dark bluish gray, moist, medium plasticity, faint petroleum odor.	
					8			
					9		Stronger petroleum odor.	
					10			
		25			11			
					12		Petroleum odor.	
					13			
		30			14			
					15			
					16	▼		
					17		No recovery	
					18			
					19			
					20		Bottom of Boring 20'	

SGI environmental **THE SOURCE GROUP, INC.**

BORING/WELL ID: **SB-10**

PROJECT NAME AND ADDRESS:	AB&I Foundry	Project No.	01-ABI-001
BORING LOCATION (AT SITE):	550 Gal VST	Logged By:	Nathan Colton
CONTRACTOR AND EQUIPMENT:	Vironex Geoprobe		
SAMPLING METHOD:	Continuous DW	MONITORING DEVICE:	MiniRae 2000
START DATE/ (TIME):	10/31/07 1430	FINISH DATE/ TIME	
FIRST WATER (BGS):	No water	STABILIZED WATER LEVEL:	
SURFACE ELEVATION:		CASING TOP ELEVATION:	
TOTAL BORING DEPTH(S):	30'	BORING DIAMETER/DEPTH:	3 1/4" / 30'

Date/Time	Sample Interval	PID (ppm)	Recovery	Stratigraphy	Depth (feet)	Water-level	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED	Well construction details
					0			
					1		Concrete debris.	
					2		Sandy gravel (asphalt), dry, 1/2" subangular, poorly sorted, no odor.	
	X				3			
	X				4		Same as above but petroleum odor.	
					5			
		700					Clay (CL), dark bluish gray (GLEY 2 4/1), moist (wet?), soft, low plasticity, petroleum odor.	
					6			
		300			7			
					8			
	X	500			9			
					10			
					11			
					12		Petroleum odor.	
					13			
	X	400			14			
					15			
					16			
		20			17			
					18		Less of an odor	
					19			
	X	20			20			

SGI environmental	THE SOURCE GROUP, INC.	BORING/WELL ID: SB-10

PROJECT NAME AND ADDRESS:	AB&I Foundry	Project No.	01-ABI-001
BORING LOCATION (AT SITE):	550 Gal VST	Logged By:	Nathan Colton
CONTRACTOR AND EQUIPMENT:	Vironex Geoprobe		
SAMPLING METHOD:	Continuous DW	MONITORING DEVICE:	MiniRae 2000
START DATE/ (TIME):	10/31/07 1430	FINISH DATE/ TIME	
FIRST WATER (BGS):	No water	STABILIZED WATER LEVEL:	
SURFACE ELEVATION:		CASING TOP ELEVATION:	
TOTAL BORING DEPTH(S):	30'	BORING DIAMETER/DEPTH:	3 1/4" / 30'

Date/Time	Sample Interval	PID (ppm)	Recovery	Stratigraphy	Depth (feet)	Water-level	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED	Well construction details
					0			
					1		Concrete debris.	
					2		Sandy gravel (asphalt), dry, 1/2" subangular, poorly sorted, no odor.	
	X				3			
	X				4		Same as above but petroleum odor	
					5			
		700					Clay (CL), dark bluish gray (GLEY 2 4/1), moist (wet?), soft, low plasticity, petroleum odor.	
					6			
		300			7			
					8			
	X	500			9			
					10			
					11			
					12		Petroleum odor.	
					13			
	X	400			14			
					15			
					16			
		20			17			
					18		Less of an odor.	
					19			
	X	20			20			

SGI environmental **THE SOURCE GROUP, INC.**

BORING/WELL ID: **SB-11**

PROJECT NAME AND ADDRESS:	AB&I Foundry	Project No.	01-ABI-001
BORING LOCATION (AT SITE):	550 Gallon USTs	Logged By:	Nathan Colton
CONTRACTOR AND EQUIPMENT:	Vironex Geoprobe		
SAMPLING METHOD:	Continuous	MONITORING DEVICE:	MiniRae 2000
START DATE/ (TIME):	11/1/2007 7:45	FINISH DATE/ TIME	11/1/2007 9:40
FIRST WATER (BGS):	20.5'	STABILIZED WATER LEVEL:	
SURFACE ELEVATION:		CASING TOP ELEVATION:	
TOTAL BORING DEPTH(S):	25'	BORING DIAMETER/DEPTH:	3 1/4" / 25'

Date/Time	Sample Interval	PID (ppm)	Recovery	Stratigraphy	Depth (feet)	Water-level	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED	Well construction details
					0			
					1		Clay (CL), light and medium brown, wet, stiff, medium plasticity, no odor	
					2		Sandy gravel (asphalt), dry, poorly sorted, no odor.	
	X				3			
	X	14			4		Clay (CL), black, stiff, medium, plasticity, faint petroleum odor.	
					5			
					6		Clay (CL), greenish gray (GLEY/ 5/1), moist, stiff, medium plasticity, petroleum odor.	
					7			
					8			
	X				9			
					10			
					11			
					12			
					13			
	X				14			
					15			
					16		Clay (CL), greenish gray w/ medium brown, moist, stiff, less of a petroleum odor noticed.	
					17		Clay (CL), same as above, but with a higher grit content, more wet, medium brown.	
					18			
					19			
	X				20	▲	Silty clay (CL) (higher silt content than above), medium brown, wet, stiff, low plasticity, no odor.	

SGI environmental	THE SOURCE GROUP, INC.		BORING/WELL ID: SB-11
PROJECT NAME AND ADDRESS:	AB&I Foundry		Project No. 01-ABI-001
BORING LOCATION (AT SITE):	550 Gallon USTs		Logged By: Nathan Colton
CONTRACTOR AND EQUIPMENT:	Vironex Geoprobe		
SAMPLING METHOD:	Continuous	MONITORING DEVICE:	MiniRae 2000
START DATE/ (TIME):	11/1/2007 7:45	FINISH DATE/ TIME	11/1/2007 9:40
FIRST WATER (BGS):	20.5'	STABILIZED WATER LEVEL:	
SURFACE ELEVATION:		CASING TOP ELEVATION:	
TOTAL BORING DEPTH(S):	25'	BORING DIAMETER/DEPTH:	3 1/4" / 25'

Date/Time	Sample Interval	PID (ppm)	Recovery	Stratigraphy	Depth (feet)	Water-level	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED	Well construction details
					20		Clay (CL), light and medium brown, wet, stiff, medium plasticity, no odor.	
					21			
					22			
					23			
	X				24			
					25			
					26			
					27			
					28			
					29			
					30			
					31			
					32			
					33			
					34			
					35			
					36			
					37			
					38			
					39			
					40			

SGI environmental	THE SOURCE GROUP, INC.	BORING/WELL ID: SB-12

PROJECT NAME AND ADDRESS:	AB&I Foundry	Project No.	01-ABI-001
BORING LOCATION (AT SITE):	550 Gallon USTs	Logged By:	Nathan Colton
CONTRACTOR AND EQUIPMENT:	Vironex Geoprobe		
SAMPLING METHOD:	Continuous dw	MONITORING DEVICE:	MiniRae 2000
START DATE/ (TIME):	11/1/2007 9:30	FINISH DATE/ TIME	11/1/2007
FIRST WATER (BGS):	22'	STABILIZED WATER LEVEL:	
SURFACE ELEVATION:		CASING TOP ELEVATION:	
TOTAL BORING DEPTH(S):	25'	BORING DIAMETER/DEPTH:	3 1/4" / 25'

Date/Time	Sample Interval	PID (ppm)	Recovery	Stratigraphy	Depth (feet)	Water-level	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED	Well construction details
					0			
					1		Cement debris.	
					2		Sandy gravel (asphalt), black, dry, poorly sorted.	
	X				3			
	X				4		Clay (CL), black, moist, stiff, medium plasticity, no odor	
					5			
					6			
					7			
					8			
	X	0			9		Clay (CL), greenish gray, moist, stiff, medium plasticity, no odor	
					10			
					11			
		20			12		Same as above but faint petroleum odor noted.	
					13			
	X	800			14			
					15			
					16		Clay (CL), dark greenish gray (GLEY 1 4/1), moist, stiff, medium pastlcity, petroleum odor.	
					17			
					18			
					19			
	X	0			20		Same as above but lighter petroleum odor noted	

SGI environmental	THE SOURCE GROUP, INC.		BORING/WELL ID: SB-12
PROJECT NAME AND ADDRESS:	AB&I Foundry		Project No. 01-ABI-001
BORING LOCATION (AT SITE):	550 Gallon USTs		Logged By: Nathan Colton
CONTRACTOR AND EQUIPMENT:	Vironex Geoprobe		
SAMPLING METHOD:	Continuous dw	MONITORING DEVICE:	MiniRae 2000
START DATE/ (TIME):	11/1/2007 9:30	FINISH DATE/ TIME	11/1/2007
FIRST WATER (BGS):	22'	STABILIZED WATER LEVEL:	
SURFACE ELEVATION:		CASING TOP ELEVATION:	
TOTAL BORING DEPTH(S):	25'	BORING DIAMETER/DEPTH:	3 1/4" / 25'

Date/Time	Sample Interval	PID (ppm)	Recovery	Stratigraphy	Depth (feet)	Water-level	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED	Well construction details
					20		Clay (CL), medium brown, moist, stiff, medium plasticity, no odor.	
					21			
					22		Clay (CL), medium brown, wet, softer, medium plasticity, no odor.	
					23			
					24			
	X	0						
					25		Bottom of Boring 25'	
					26			
					27			
					28			
					29			
					30			
					31			
					32			
					33			
					34			
					35			
					36			
					37			
					38			
					39			
					40			

SGI environmental	THE SOURCE GROUP, INC.	BORING/WELL ID: SB-13

PROJECT NAME AND ADDRESS:	AB&I Foundry	Project No.	01-ABI-001
BORING LOCATION (AT SITE):	550 Gallon USTs	Logged By:	Nathan Colton
CONTRACTOR AND EQUIPMENT:	Vironex Geoprobe		
SAMPLING METHOD:	Continuous DW	MONITORING DEVICE:	MiniRae 2000
START DATE/ (TIME):	11/1/2007 11:20	FINISH DATE/ TIME	11/1/2007 12.00
FIRST WATER (BGS):	22.5'	STABILIZED WATER LEVEL:	
SURFACE ELEVATION:		CASING TOP ELEVATION:	
TOTAL BORING DEPTH(S):	25'	BORING DIAMETER/DEPTH:	3 1/4" / 25'

Date/Time	Sample Interval	PID (ppm)	Recovery	Stratigraphy	Depth (feet)	Water-level	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED	Well construction details
					0			
					1		Cement debris	
					2		Sandy gravel (asphalt), dry, poorly sorted, no odor	
	X				3			
	X				4		Clay (CL), black, moist, stiff, medium pasticity, no odor	
					5		NR	
					6		Clay (CL), black, moist, stiff, medium pasticity, no odor	
					7			
					8			
					9			
	X	0			10			
		20			11			
					12		Clay (CL), greenish gray, stiff, medium pasticity, petroleum odor	
					13			
					14			
	X	500			15			
					16		Same as above but softer, more moist	
					17			
					18			
					19		Clay (CL), greenish gray, stiff, medium pasticity, petroleum odor	
		155			20			

SGI environmental **THE SOURCE GROUP, INC.**

BORING/WELL ID: **SB-13**

PROJECT NAME AND ADDRESS:	AB&I Foundry	Project No.	01-ABI-001
BORING LOCATION (AT SITE):	550 Gallon USTs	Logged By:	Nathan Colton
CONTRACTOR AND EQUIPMENT:	Vironex Geoprobe		
SAMPLING METHOD:	Continuous DW	MONITORING DEVICE:	MiniRae 2000
START DATE/ (TIME):	11/1/2007 11:20	FINISH DATE/ TIME	11/1/2007 12:00
FIRST WATER (BGS):	22.5'	STABILIZED WATER LEVEL:	
SURFACE ELEVATION:		CASING TOP ELEVATION:	
TOTAL BORING DEPTH(S):	25'	BORING DIAMETER/DEPTH:	3 1/4" / 25'

Date/Time	Sample Interval	PID (ppm)	Recovery	Stratigraphy	Depth (feet)	Water-level	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED	Well construction details
					20			
					21			
					22	▼		
					23		Silty clay (CL), dark greenish gray, wet, soft, low plasticity, faint petroleum odor	
	X	60			24		Clay (CL), medium brown, moist, stiff, no odor	
					25		**Bottom of Boring 25'**	
					26		Note: PID reading 60 ppm at 25' but soil looks clean. Water from upper levels has drained into the lower soil sample. Possible cross contamination.	
					27			
					28			
					29			
					30			
					31			
					32			
					33			
					34			
					35			
					36			
					37			
					38			
					39			
					40			

SGI environmental **THE SOURCE GROUP, INC.**

BORING/WELL ID: **SB-14**

PROJECT NAME AND ADDRESS:	AB&I Foundry	Project No.	01-ABI-001
BORING LOCATION (AT SITE):	550-gallon USTs	Logged By:	Nathan Colton
CONTRACTOR AND EQUIPMENT:	Vironex Geoprobe		
SAMPLING METHOD:	Continuous dw	MONITORING DEVICE:	MiniRae 2000
START DATE/ (TIME):	11/1/2007 12:50	FINISH DATE/ TIME	11/1/2007 13:40
FIRST WATER (BGS):	10.5'	STABILIZED WATER LEVEL:	
SURFACE ELEVATION:		CASING TOP ELEVATION:	
TOTAL BORING DEPTH(S):	15'	BORING DIAMETER/DEPTH:	3 1/4" /15'

Date/Time	Sample Interval	PID (ppm)	Recovery	Stratigraphy	Depth (feet)	Water-level	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED	Well construction details
					0			
					1		Concrete debris.	
	X				2		Sandy clay (fill), coarse grained, black, moist, poorly sorted, no odor.	
					3			
					4			
					5		No recovery	
					6			
					7			
					8			
	X				9		Gravelly clay (CL), dark brown, wet, soft, 3/4" subangular, no odor.	
					10	▼		
					11		No recovery	
					12			
					13			
	X				14		Sandy gravel (SP), very dark gray 1/4" to 3/4", subangular, wet, loose, no odor	
					15		Bottom of Boring 15'	
					16			
					17			
					18			
					19			
					20			

SB-14.xls

SGI environmental **THE SOURCE GROUP, INC.**

BORING/WELL ID: **SB-15**

PROJECT NAME AND ADDRESS:	AB&I Foundry	Project No.	01-ABI-001
BORING LOCATION (AT SITE):	550 Gallon USTs	Logged By:	Nathan Colton
CONTRACTOR AND EQUIPMENT:	Vironex Geoprobe		
SAMPLING METHOD:	Continuous dw	MONITORING DEVICE:	MiniRae 2000
START DATE/ (TIME):	11/1/2007 13:42	FINISH DATE/ TIME	11/1/2007 14:30
FIRST WATER (BGS):	5.5'	STABILIZED WATER LEVEL:	
SURFACE ELEVATION:		CASING TOP ELEVATION:	
TOTAL BORING DEPTH(S):	19'	BORING DIAMETER/DEPTH:	3 1/4" / 19'

Date/Time	Sample Interval	PID (ppm)	Recovery	Stratigraphy	Depth (feet)	Water-level	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHE	Well construction details
					0			
					1		Concrete debris.	
	X				2		Silty sand (SM), fine grained, very dark brown, moist, well sorted, some gravel particles 1/2" subangular, no odor.	
					3			
	X	0			4			
					5	▼	Gravelly sand (SP), fine grained, black, 1/2" subangular, wet, poorly sorted, no odor.	
					6			
					7		Clay (CL), dark gray, moist, medium plasticity, no odor.	
					8			
	X				9			
		0			10		Clay (CL), greenish gray, moist, stiff, medium plasticity, faint petroleum odor.	
					11			
					12		Silty clay (CL) with some gravel, greenish gray, moist, softer, petroleum odor.	
					13			
	X	1200			14		Sandy clay (SC), fine sand, moist, well sorter, petroleum odor stronger.	
					15		Clay (CL), greenish gray, stiff, moist, medium plasticity, petroleum odor.	
					16			
					17			
	X	40			18		Same as above but no odor	
					19		Refusal at 19' bgs, Bottom of Boring at 19'	
					20			

SGI environmental **THE SOURCE GROUP, INC.**

BORING/WELL ID.: **SB-16**

PROJECT NAME AND ADDRESS:	AB&I Foundry	Project No.	01-ABI-001
BORING LOCATION (AT SITE):	Parking Lot	Logged By:	Nathan Colton
CONTRACTOR AND EQUIPMENT:	Vironex Geoprobe		
SAMPLING METHOD:	Marsocere	MONITORING DEVICE:	MiniRae 2000
START DATE/ (TIME):	11/1/2007 14 45	FINISH DATE/ TIME	11/1/2007 15 30
FIRST WATER (BGS):		STABILIZED WATER LEVEL:	10'
SURFACE ELEVATION:		CASING TOP ELEVATION:	
TOTAL BORING DEPTH(S):	20'	BORING DIAMETER/DEPTH:	20'

Date/Time	Sample Interval	PID (ppm)	Recovery	Stratigraphy	Depth (feet)	Water-level	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED	Well construction details
					0			
					1		Asphalt	
					2		Gravelly sand (SM), black, 1/2" subangular, dry.	
					3		Clay (CL), some gravel, black, moist, soft, medium plasticity, no odor	
					4			
					5		Clay, black, moist, wood chips, light, medium plasticity, no odor	
					6			
					7			
					8			
					9			
					10			
					11			
					12			
					13			
					14		Clay (CL), light brownish gray (10YR 6/2), moist, soft, high plasticity, no odor	
					15			
					16			
					17			
					18		Clay (CL), grayish brown (10YR 5/2) moist, soft, high plasticity, no odor.	
					19			
					20		Bottom of Boring 20'	

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SGI environmental **THE SOURCE GROUP, INC.**

BORING/WELL ID: **SB-17**

PROJECT NAME AND ADDRESS:	AB&J Foundry	Project No.	01-ABI-001
BORING LOCATION (AT SITE):	Parking Lot	Logged By:	Nathan Colton
CONTRACTOR AND EQUIPMENT:	Vironex Geoprobe		
SAMPLING METHOD:	Marcocere	MONITORING DEVICE:	MiniRae 2000
START DATE/ (TIME):	11/1/2007 1515	FINISH DATE/ TIME	11/1/2007 1600
FIRST WATER (BGS):	15.5'	STABILIZED WATER LEVEL:	9'
SURFACE ELEVATION:		CASING TOP ELEVATION:	
TOTAL BORING DEPTH(S):	20'	BORING DIAMETER/DEPTH:	20'

Date/Time	Sample Interval	PID (ppm)	Recovery	Stratigraphy	Depth (feet)	Water-level	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, gram size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED	Well construction details
					0			
					1		Concrete debris.	
					2		Clay (CL), with some gravel, black, moist, stiff, no odor	
					3			
					4		Same as above with no gravel.	
					5			
					6			
					7			
					8			
					9			
					10			
					11		Clay (CL), light grayish brown, moist, tight, no odor.	
					12			
					13			
					14		Clay (CL), same as above but softer.	
					15	▼		
							Gravel (GM), very dark gray, wet, subangular, 1/4", no odor.	
					16			
					17			
					18		Clay (CL), light to medium gray, moist, stiff, medium plasticity, no odor.	
					19			
					20		Bottom of Boring 20'	

SGI environmental **THE SOURCE GROUP, INC.**

BORING/WELL ID: **SB-18**

PROJECT NAME AND ADDRESS:	AB&I Foundry	Project No.	01-ABI-001
BORING LOCATION (AT SITE):	Parking Lot	Logged By:	Nathan Colton
CONTRACTOR AND EQUIPMENT:	Vironex Geoprobe		
SAMPLING METHOD:	Macro	MONITORING DEVICE:	MiniRae 2000
START DATE/ (TIME):	11/5/2007 12:45	FINISH DATE/ TIME	11/5/2007 13:45
FIRST WATER (BGS):		STABILIZED WATER LEVEL:	
SURFACE ELEVATION:		CASING TOP ELEVATION:	
TOTAL BORING DEPTH(S):	20'	BORING DIAMETER/DEPTH:	2" 20'

Date/Time	Sample Interval	PID (ppm)	Recovery	Stratigraphy	Depth (feet)	Water-level	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED	Well construction details
					0			
					1		Asphalt debris.	
					2		Gravelly clay (SM) with some sand, grayish brown, soft/crumbly, no odor.	
					3			
					4		Clay (CL), dark brown, moist, stiff, medium plasticity, no odor.	
					5			
					6			
					7			
					8			
					9			
					10			
					11		Clay (CL), olive brown, moist, soft, medium plasticity, no odor	
					12			
					13			
					14	▼	clay with some sand	
					15		Same as above with gravel 1/4" subangular and sand, medium grained, wet, no odor, olive brown.	
					16			
					17			
					18			
					19			
					20			

SGI environmental **THE SOURCE GROUP, INC.**

BORING/WELL ID: **SB-19**

PROJECT NAME AND ADDRESS:	AB&I Foundry	Project No.	01-ABI-001
BORING LOCATION (AT SITE):	Parking Lot	Logged By:	Nathan Colton
CONTRACTOR AND EQUIPMENT:	Vironex Geoprobe		
SAMPLING METHOD:	Macro	MONITORING DEVICE:	MiniRae 2000
START DATE/ (TIME):	11/5/2007 10:30	FINISH DATE/ TIME	11/5/2007 11:15
FIRST WATER (BGS):	17.5'	STABILIZED WATER LEVEL:	
SURFACE ELEVATION:		CASING TOP ELEVATION:	
TOTAL BORING DEPTH(S):	20'	BORING DIAMETER/DEPTH:	2" 20'

Date/Time	Sample Interval	PID (ppm)	Recovery	Stratigraphy	Depth (feet)	Water-level	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED	Well construction details
					0			
					1		Cement debris.	
					2		Gravelly clay (asphalt), dry, lose, no odor.	
					3			
					4			
					5			
					6		Clay (CL), very dark gray, moist, stiff, no odor.	
					7			
					8			
					9			
					10			
		0.5			11			
					12			
					13		Gravelly clay (GC), dark gray, almost black, with light gray streaks, moist, poorly sorted, no odor.	
					14		Clay (CL), medium gray, moist, stiff, medium plasticity, no odor.	
					15		No recovery.	
					16			
					17	▼	Silty clay (CL), dark gray, wet, some gravel, soft, no odor	
					18			
					19		Clay (CL), medium brown, moist, stiff, medium plasticity, no odor.	
					20		Bottom of Boring 20'	

SGI environmental **THE SOURCE GROUP, INC.**

BORING/WELL ID: **SB-20**

PROJECT NAME AND ADDRESS:	AB&I Foundry	Project No.	01-ABI-001
BORING LOCATION (AT SITE):	Parking Lot	Logged By:	Nathan Colton
CONTRACTOR AND EQUIPMENT:	Vironex Geoprobe		
SAMPLING METHOD:	Macro	MONITORING DEVICE:	MiniRae 2000
START DATE/ (TIME):	11/5/2007 12:00	FINISH DATE/ TIME	11/5/2007 13:00
FIRST WATER (BGS):		STABILIZED WATER LEVEL:	
SURFACE ELEVATION:		CASING TOP ELEVATION:	
TOTAL BORING DEPTH(S):	20'	BORING DIAMETER/DEPTH:	2" 20'

Date/Time	Sample Interval	PID (ppm)	Recovery	Stratigraphy	Depth (feet)	Water-level	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED	Well construction details
					0			
					1		Asphalt debris.	
					2		Gravelly clay (fill) with some sand, dark brown, moist, stiff, medium plasticity, no odor.	
					3			
					4			
					5		Clay (CL), dark gray (brick pieces red), moist, stiff, medium plasticity, no odor.	
					6			
					7			
					8			
					9		Same as above, no brick pieces.	
					10			
					11			
					12			
					13		Clay (CL), olive brown, moist, soft, medium plasticity, no odor.	
					14			
					15			
					16		More moist, almost wet.	
					17			
					18			
					19		Gravelly clay (GC) , olive brown, moist, stiff, medium plasticity, no odor.	
					20		Bottom of Boring 20'	

SGI environmental **THE SOURCE GROUP, INC.**

BORING/WELL ID: **SB-21**

PROJECT NAME AND ADDRESS:	AB&I Foundry	Project No.	01-ABI-001
BORING LOCATION (AT SITE):	Parking Lot	Logged By:	Nathan Colton
CONTRACTOR AND EQUIPMENT:	Vironex Geoprobe		
SAMPLING METHOD:	Macro	MONITORING DEVICE:	MiniRae 2000
START DATE/ (TIME):	11/5/2007 11:30	FINISH DATE/ TIME	11/5/2007 0:00
FIRST WATER (BGS):		STABILIZED WATER LEVEL:	
SURFACE ELEVATION:		CASING TOP ELEVATION:	
TOTAL BORING DEPTH(S):	20'	BORING DIAMETER/DEPTH:	2" / 20'

Date/Time	Sample Interval	PID (ppm)	Recovery	Stratigraphy	Depth (feet)	Water-level	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED	Well construction details
					0			
					1		Asphalt debris.	
					2		Silty clay (CL), olive brown, dry.	
					3		Gravelly clay (GC), dark gray, 1/4", subangular, loose, moist, no odor	
					4			
					5		Red rock (brick pieces), dry.	
					6		Clay (CL), olive brown, moist, stiff, medium plasticity, no odor.	
					7			
					8			
					9			
					10			
					11			
					12			
					13			
					14			
					15			
					16			
					17			
					18			
					19			
					20		Bottom of Boring 20'	

SGI environmental **THE SOURCE GROUP, INC.**

BORING/WELL ID: **SB-22**

PROJECT NAME AND ADDRESS:	AB&I Foundry	Project No.	01-ABI-001
BORING LOCATION (AT SITE):	8,000 gal TRA VST	Logged By:	Nathan Colton
CONTRACTOR AND EQUIPMENT:	Vironex Geoprobe		
SAMPLING METHOD:	Continuous	MONITORING DEVICE:	MiniRae 2000
START DATE/ (TIME):	11/2/07 745	FINISH DATE/ TIME	11/2/07 845
FIRST WATER (BGS):	9'	STABILIZED WATER LEVEL:	
SURFACE ELEVATION:		CASING TOP ELEVATION:	
TOTAL BORING DEPTH(S):	15'	BORING DIAMETER/DEPTH:	3 1/4" 15'

Date/Time	Sample Interval	PID (ppm)	Recovery	Stratigraphy	Depth (feet)	Water-level	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED	Well construction details
					0			
					1		Cement debris.	
					2		Clay (CL), very dark gray, moist, medium plasticity, no odor	
	X				3			
	X				4		Sandy silt (ML), fine grained black, moist, loose, well sorted.	
					5		NR	
					6			
					7		Gravelly clay (GC), dark gray, moist, 1/2" to 3/4" subangular, poorly sorted, no odor.	
					8			
	X	130			9			
					10		Gravelly clay (GC) with some medium grained sand, dark bluish gray, wet, poorly sorted, slight oily sheen, no odor.	
		48			11			
		1.9			12		Gravelly sand, dark gray, wet, poorly sorted, no odor.	
					13		Clay (CL), light brownish gray, moist very soft, medium plasticity, no odor.	
	X	0.7			14			
					15		Bottom of Boring 16'	
					16			
					17			
					18			
					19			
					20			

SGI environmental **THE SOURCE GROUP, INC.**

BORING/WELL ID: **SB-23**

PROJECT NAME AND ADDRESS:	AB&I Foundry	Project No.	01-ABI-001
BORING LOCATION (AT SITE):	8,000 gal TRA VST	Logged By:	Nathan Colton
CONTRACTOR AND EQUIPMENT:	Vironex Geoprobe		
SAMPLING METHOD:	Continuous DW	MONITORING DEVICE:	MiniRae 2000
START DATE/ (TIME):	11/2/2007 905	FINISH DATE/ TIME	11/2/2007 0:00
FIRST WATER (BGS):	8.5'	STABILIZED WATER LEVEL:	
SURFACE ELEVATION:		CASING TOP ELEVATION:	
TOTAL BORING DEPTH(S):	15'	BORING DIAMETER/DEPTH:	3 1/4" 15'

Date/Time	Sample Interval	PID (ppm)	Recovery	Stratigraphy	Depth (feet)	Water-level	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED	Well construction details
					0			
					1		Cement debris.	
		0.1			2		Clay (CL), very dark gray, moist, medium plasticity, no odor.	
	X				3			
	X	0.1			4		Sandy silt (ML), fine grained, black, moist, loose, no odor.	
					5		NR	
					6			
					7			
		0.4			8		Gravelly clay (GC), very dark gray, moist, poorly sorted, no odor.	
	X	0.3			9		Gravelly sand (SP), very dark gray, medium grained, poorly sorted, no odor, wet.	
					10			
					11		Gravelly clay (GC), dark gray, wet, soft, no odor.	
					12		Clay (CL), olive brownish gray, moist, stiff, medium plasticity, no odor.	
					13			
	X	0.4			14			
					15		Bottom of Boring 15'	
					16			
					17			
					18			
					19			
					20			

SGI environmental **THE SOURCE GROUP, INC.**

BORING/WELL ID. **SB-24**

PROJECT NAME AND ADDRESS:	AB&I Foundry	Project No.	01-ABI-001
BORING LOCATION (AT SITE):	8,000 gal TRA VST	Logged By:	Nathan Colton
CONTRACTOR AND EQUIPMENT:	Vironex Geoprobe		
SAMPLING METHOD:	Continuous	MONITORING DEVICE:	MiniRae 2000
START DATE/ (TIME):	11/2/2007 1000	FINISH DATE/ TIME	11/2/2007 1100
FIRST WATER (BGS):	7.5'	STABILIZED WATER LEVEL:	
SURFACE ELEVATION:		CASING TOP ELEVATION:	
TOTAL BORING DEPTH(S):	20'	BORING DIAMETER/DEPTH:	3 1/4" / 20'

Date/Time	Sample Interval	PID (ppm)	Recovery	Stratigraphy	Depth (feet)	Water-level	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED	Well construction details
					0			
					1		Cement debris	
					2		Clay (CL), very dark gray, moist, sorted, medium plasticity, no odor.	
	X				3		Sandy silt (ML), fine grained, dark gray, crumbly, most, no odor.	
	X				4			
					5		NR	
					6		Sandy silt (ML), some gravel, dark gray, moist, no odor.	
					7		Gravel (GC), brown to dark gray, wet, to 3/4" to 1" subangular, poorly sorted, no odor.	
					8			
					9		Silty clay (CL), bluish gray, moist, medium stiffness, medium plasticity, no odor.	
		200			10			
					11		Clay (CL), bluish gray, moist, stiff, medium plasticity, no odor.	
		0.6			12			
					13			
	X	0.3			14			
					15		Gravel (GC), dark gray, wet, 3/4" to 1" subangular, poorly sorted, no odor.	
					16			
					17			
					18		Clay (CL), dark olive brown, moist, stiff, medium plasticity, no odor.	
					19			
	X	0.3			20		Bottom of Boring 20'	

SGI environmental **THE SOURCE GROUP, INC.**

BORING/WELL ID. **SB-25**

PROJECT NAME AND ADDRESS:	AB&I Foundry	Project No.	01-ABI-001
BORING LOCATION (AT SITE):	Production Area	Logged By:	Nathan Colton
CONTRACTOR AND EQUIPMENT:	Vironex Geoprobe		
SAMPLING METHOD:	Macro	MONITORING DEVICE:	MiniRae 2000
START DATE/ (TIME):	11/2/2007 1040	FINISH DATE/ TIME	11/2/2007 1110
FIRST WATER (BGS):	8.5'	STABILIZED WATER LEVEL:	
SURFACE ELEVATION:		CASING TOP ELEVATION:	
TOTAL BORING DEPTH(S):	10'	BORING DIAMETER/DEPTH:	2" 10'

Date/Time	Sample Interval	PID (ppm)	Recovery	Stratigraphy	Depth (feet)	Water-level	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED	Well construction details
					0			
					1		Cement debris.	
					2		Sand (SM), coarse, light brown, moist, no odor.	
					3		Clay (CL), black, moist, stiff, no odor.	
					4		NR	
					5		Clay (CL), some gravel, dark gray, moist, stiff, no odor.	
					6			
					7			
					8			
					9		Gravelly clay (GC), some sand, grained, 1/4" to 1/2" subangular, dark gray, wet, poorly sorted, rotten egg odor.	
					10		**Bottom of Boring 10'**	
					11			
					12			
					13			
					14			
					15			
					16			
					17			
					18			
					19			
					20			

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BORING/WELL ID: **SB-26**

PROJECT NAME AND ADDRESS:	AB&I Foundry	Project No.	01-ABI-001
BORING LOCATION (AT SITE):	Production Area	Logged By:	Nathan Colton
CONTRACTOR AND EQUIPMENT:	Vironex Geoprobe		
SAMPLING METHOD:	Macro	MONITORING DEVICE:	MiniRae 2000
START DATE/ (TIME):	11/2/2007 11315	FINISH DATE/ TIME	11/2/2007 1200
FIRST WATER (BGS):	13'	STABILIZED WATER LEVEL:	
SURFACE ELEVATION:		CASING TOP ELEVATION:	
TOTAL BORING DEPTH(S):	15'	BORING DIAMETER/DEPTH:	2" 15'

Date/Time	Sample Interval	PID (ppm)	Recovery	Stratigraphy	Depth (feet)	Water-level	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED	Well construction details
					0			
					1		Cement debris	
					2		Silt (ML), dark brown, moist, loose, no odor.	
					3		Gravelly sand (SP) with a very sticky black substance (tar?), moist, faint hydrocarbon odor.	
	X	16			4		Clay (CL), dark brown, moist, stiff, medium plasticity, no odor.	
					5			
					6			
		400			7		Clay (CL), bluish gray, moist, stiff, medium plasticity, solvent odor?	
					8			
	X				9			
		1000			10			
					11			
					12			
					13		Sandy gravel (SP), bluish gray, wet, loose, solvent odor.	
		X			14		Sandy clay (SP), bluish gray, fine grained, wet, solvent odor 13.5' to 14'.	
					15		Clay (CL), bluish gray, moist, stiff, medium plasticity, solvent odor 14' to 15'.	
					16		**Bottom of Boring 15'**	
					17			
					18			
					19			
					20			

SGI environmental THE SOURCE GROUP, INC.				BORING/WELL ID: SB-27
PROJECT NAME AND ADDRESS:	AB&I Foundry		Project No.	01-ABI-001
BORING LOCATION (AT SITE):	10,000 gal VST		Logged By:	Nathan Colton
CONTRACTOR AND EQUIPMENT:	Vironex Geoprobe			
SAMPLING METHOD:	Continuos DW	MONITORING DEVICE:	MiniRae 2000	
START DATE/ (TIME):	11/5/2007 0710	FINISH DATE/ TIME	11/5/2007 830	
FIRST WATER (BGS):		STABILIZED WATER LEVEL:		
SURFACE ELEVATION:		CASING TOP ELEVATION:		
TOTAL BORING DEPTH(S):	15'	BORING DIAMETER/DEPTH:	3 1/4" 15'	

Date/Time	Sample Interval	PID (ppm)	Recovery	Stratigraphy	Depth (feet)	Water-level	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED	Well construction details
					0			
					1		Cement debris.	
		13			2		Clay (CL), dark gray, moist, stiff, medium plasticity, faint petroleum odor.	
	X				3			
	X				4		White chalking substance, crumbly.	
					5		NR	
		0.2			6		Silty clay (CL), dark gray, moist, soft, medium plasticity, faint petroleum odor.	
					7			
					8			
	X				9		Clay (CL), dark gray, moist, stiff, medium plasticity, no odor.	
					10			
					11			
					12		Same as above but medium brownish gray.	
					13			
	X	0			14			
					15		Bottom of Boring 15'	
					16			
					17			
					18			
					19			
					20			

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BORING/WELL ID: **SB-28**

PROJECT NAME AND ADDRESS:	AB&I Foundry	Project No.	01-ABI-001
BORING LOCATION (AT SITE):	10,000 gal VST	Logged By:	Nathan Colton
CONTRACTOR AND EQUIPMENT:	Vironex Geoprobe		
SAMPLING METHOD:	Continuos	MONITORING DEVICE:	MiniRae 2000
START DATE/ (TIME):	11/2/2007 1500	FINISH DATE/ TIME	11/2/2007 1610
FIRST WATER (BGS):	7.5	STABILIZED WATER LEVEL:	
SURFACE ELEVATION:		CASING TOP ELEVATION:	
TOTAL BORING DEPTH(S):	20'	BORING DIAMETER/DEPTH:	3 1/4" 20'

Date/Time	Sample Interval	PID (ppm)	Recovery	Stratigraphy	Depth (feet)	Water-level	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED	Well construction details
					0			
					1		NR	
					2			
					3			
					4			
					5			
	X				6		Clay (CL), dark brown, moist, stiff, medium plasticity, no odor.	
		0.2			7		Gravelly clay (GC) with fine sands, very dark brown, wet, poorly sorted, soft, no odor.	
					8		Clay (CL), very dark gray, moist, stiff, no odor.	
	X	0.2			9		Gravelly clay (GC) with fine sands, very dark brown, wet, poorly sorted, soft, no odor	
					10		White chalking material, very fine particles, crumbles.	
					11		Gravel (GC), dark brown, wet, poorly sorted, faint petroleum odor.	
		0.1					Clay (CL), dark brown, moist, stiff, medium plasticity, faint petroleum odor.	
					12		Clay, medium gray, moist, stiff, medium plasticity, no odor.	
					13			
	X				14			
					15			
							Sand (SP), medium grained trace gravel, light gray, wet, well sorted, loose, no odor.	
					16			
					17		Clay (CL), medium brownish gray, moist, stiff, medium plasticity, no odor.	
					18			
	X				19			
					20		Bottom of Boring 20'	

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BORING/WELL ID: **SB-29**

PROJECT NAME AND ADDRESS:	AB&I Foundry	Project No.	01-ABI-001
BORING LOCATION (AT SITE):	10,000 gal VST	Logged By:	Nathan Colton
CONTRACTOR AND EQUIPMENT:	Vironex Geoprobe		
SAMPLING METHOD:	Continues	MONITORING DEVICE:	MiniRae 2000
START DATE/ (TIME):	11/5/2007 900	FINISH DATE/ TIME	
FIRST WATER (BGS):	6.5'	STABILIZED WATER LEVEL:	
SURFACE ELEVATION:		CASING TOP ELEVATION:	
TOTAL BORING DEPTH(S):	15'	BORING DIAMETER/DEPTH:	3 1/4" 15'

Date/Time	Sample Interval	PID (ppm)	Recovery	Stratigraphy	Depth (feet)	Water-level	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED	Well construction details
					0			
					1		Cement debris.	
							Clay (CL), lots of fine sands (stuffing from top of the sample sleeve?) dry, slight petroleum od	
					2			
					3			
							No recovery.	
					4			
					5		Clay (CL), dark brown, moist, stiff, medium plasticity, no odor.	
	X				6	▼		
					7		Silty clay (CL), dark gray, wet, loose, no odor.	
					8			
		0.2			9			
	X						Clay (CL), dark gray, moist, stiff, medium plasticity, no odor, some roots.	
					10			
					11			
					12			
					13		Clay (CL), light brown to gray, moist, stiff, medium plasticity, trace rocks (1/4" round), no odor.	
					14			
		0.1						
					15		Bottom of Boring 15'	
					16			
					17			
					18		No water recovery at 15' Collected sample via hydropunch, screened 15' - 20' bgs.	
					19			
					20			

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BORING/WELL ID: **SB-30**

PROJECT NAME AND ADDRESS:	AB&I Foundry	Project No.	01-ABI-001
BORING LOCATION (AT SITE):	10,000 gal VST	Logged By:	Nathan Colton
CONTRACTOR AND EQUIPMENT:	Vironex Geoprobe		
SAMPLING METHOD:	Continuous	MONITORING DEVICE:	MiniRae 2000
START DATE/ (TIME):	11/2/2007 1345	FINISH DATE/ TIME	11/2/07 1445
FIRST WATER (BGS):	10'	STABILIZED WATER LEVEL:	
SURFACE ELEVATION:		CASING TOP ELEVATION:	
TOTAL BORING DEPTH(S):	15'	BORING DIAMETER/DEPTH:	3 1/4" 15'

Date/Time	Sample Interval	PID (ppm)	Recovery	Stratigraphy	Depth (feet)	Water-level	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED	Well construction details
					0			
					1		Cement debris.	
					2		Gravelly sand (asphalt), dark gray, loose, dry, no odor.	
	X				3			
	X				4		Clay (CL), dark gray, moist, stiff, medium plasticity, no odor.	
					5			
					6	▼	NR	
					7		Gravelly sand (SP), dark brown, moist, loose, poorly sorted, no odor.	
					8			
					9			
	X				10		Clay (CL), medium gray,	
					11			
					12			
					13			
					14			
	X				15		Clay (CL), dark brown, moist and wet, soft, low plasticity, no odor.	
					16		Bottom of Boring 15'	
					17			
					18			
					19			
					20			

SGI environmental **THE SOURCE GROUP, INC.**

BORING/WELL ID. **SB-31**

PROJECT NAME AND ADDRESS:	AB&I Foundry	Project No.	01-ABI-001
BORING LOCATION (AT SITE):	Parking Lot	Logged By:	Nathan Collon
CONTRACTOR AND EQUIPMENT:	Vironex Geoprobe		
SAMPLING METHOD:	Macro	MONITORING DEVICE:	MiniRae 2000
START DATE/ TIME:	11/5/07 1430	FINISH DATE/ TIME	
FIRST WATER (BGS):		STABILIZED WATER LEVEL:	
SURFACE ELEVATION:		CASING TOP ELEVATION:	
TOTAL BORING DEPTH(S):	25'	BORING DIAMETER/DEPTH:	2" 25'

Date/Time	Sample Interval	PID (ppm)	Recovery	Stratigraphy	Depth (feet)	Water-level	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED	Well construction details
					0			
					1			
	X				2		Case jammed. Sample not removed.	
					3			
	X				4			
					5			
					6		NR	
		0.1			7		Clay (CL), black, moist, stiff, medium plasticity, no odor	
					8			
					9			
		0.1			10			
					11			
					12			
					13			
					14			
					15		Clay (CL), olive brown, moist, stiff, medium plasticity, no odor.	
					16			
					17			
					18			
					19			
					20			

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BORING/WELL ID: **SB-31**

PROJECT NAME AND ADDRESS:	AB&I Foundry	Project No.	01-ABI-001
BORING LOCATION (AT SITE):	Parking Lot	Logged By:	Nathan Colton
CONTRACTOR AND EQUIPMENT:	Vironex Geoprobe		
SAMPLING METHOD:	Macro	MONITORING DEVICE:	MiniRae 2000
START DATE/ (TIME):	11/5/07 1430	FINISH DATE/ TIME	11/5/07 1545
FIRST WATER (BGS):		STABILIZED WATER LEVEL:	
SURFACE ELEVATION:		CASING TOP ELEVATION:	
TOTAL BORING DEPTH(S):	25'	BORING DIAMETER/DEPTH:	2" 25'

Date/Time	Sample Interval	PID (ppm)	Recovery	Stratigraphy	Depth (feet)	Water-level	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED	Well construction details
					20			
					21		Same as above but softer.	
					22			
					23			
					24		Clay (CL), gravelly clay, dark brown, moist, very stiff, medium plasticity, no odor.	
					25		Bottom of Boring 25'	
					26			
					27			
					28			
					29			
					30			
					31			
					32			
					33			
					34			
					35			
					36			
					37			
					38			
					39			
					40			

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BORING/WELL ID: **SB-32**

PROJECT NAME AND ADDRESS:	AB&I Foundry	Project No.	01-ABI-001
BORING LOCATION (AT SITE):	Parking lot	Logged By:	Nathan Colton
CONTRACTOR AND EQUIPMENT:	Vironex Geoprobe		
SAMPLING METHOD:	Macro	MONITORING DEVICE:	MiniRae 2000
START DATE/ (TIME):	11/26/2007 753	FINISH DATE/ TIME	11/26/2007
FIRST WATER (BGS):	10'	STABILIZED WATER LEVEL:	
SURFACE ELEVATION:		CASING TOP ELEVATION:	
TOTAL BORING DEPTH(S):	20'	BORING DIAMETER/DEPTH:	2" 20'

Date/Time	Sample Interval	PID (ppm)	Recovery	Stratigraphy	Depth (feet)	Water-level	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED	Well construction details
					0			
					1		Asphalt debris.	
					2		Gravelly silt (ML), medium brown, dry, crumbly, poorly sorted, no odor, fill	
					3			
					4		Clay (CL), dark gray, moist, stiff, medium plasticity, no odor.	
					5			
					6			
					7			
					8		Light gray.	
					9			
					10			
					11			
					12			
					13			
					14		More moist.	
					15			
					16			
					17		Greater silt content, more moist.	
					18		Clay (CL), dark grayish brown, moist, stiff, medium plasticity, no odor.	
					19			
					20		**Bottom of Boring 20'**	

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THE SOURCE GROUP, INC.

BORING/WELL ID.: **SB-33**

PROJECT NAME AND ADDRESS:	AB&I Foundry	Project No.	01-ABI-001
BORING LOCATION (AT SITE):	Parking lot	Logged By:	Nathan Colton
CONTRACTOR AND EQUIPMENT:	Vironex Geoprobe 6600		
SAMPLING METHOD:	Macro	MONITORING DEVICE:	MiniRae 2000
START DATE/ (TIME):	11/26/2007 1030	FINISH DATE/ TIME	11/26/2007
FIRST WATER (BGS):	17.5'	STABILIZED WATER LEVEL:	
SURFACE ELEVATION:		CASING TOP ELEVATION:	
TOTAL BORING DEPTH(S):	20'	BORING DIAMETER/DEPTH:	2" 20'

Date/Time	Sample Interval	PID (ppm)	Recovery	Stratigraphy	Depth (feet)	Water-level	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED	Well construction details
					0			
					1		Gravelly clay (fill).	
					2		NR	
					3			
					4			
					5			
					6			
					7			
					8			
					9			
		0.3			10		Clay (CL), light grayish brown, moist, stiff, medium plasticity, no odor, trace red (brick?) fragments.	
					11		Olive brown with no brick fragments.	
					12			
					13			
					14			
					15		Olive to light brown (tan), moist, stiff, medium plasticity, no odor	
					16			
					17	▼	Light grayish brown, wet, soft, medium plasticity, no odor.	
					18			
					19		Medium brown, moist, stiff, medium plasticity, no odor.	
					20		Bottom of Boring 20'	

SGI environmental	THE SOURCE GROUP, INC.		BORING/WELL ID: SB-34
PROJECT NAME AND ADDRESS:	AB&I Foundry		Project No. 01-ABI-001
BORING LOCATION (AT SITE):	Parking lot		Logged By: Nathan Colton
CONTRACTOR AND EQUIPMENT:	Vironex Geoprobe 6600		
SAMPLING METHOD:	Macro	MONITORING DEVICE:	MiniRae 2000
START DATE/ TIME):	11/26/2007 1030	FINISH DATE/ TIME	11/26/2007
FIRST WATER (BGS):	17.5'	STABILIZED WATER LEVEL:	
SURFACE ELEVATION:		CASING TOP ELEVATION:	
TOTAL BORING DEPTH(S):	20'	BORING DIAMETER/DEPTH:	2" 20'

Date/Time	Sample Interval	PID (ppm)	Recovery	Stratigraphy	Depth (feet)	Water-level	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED	Well construction details
					0			
					1		Gravelly clay (fill).	
					2		NR	
					3			
					4			
					5			
					6			
					7			
					8			
					9			
					10		Clay (CL), olive brown, moist, medium tightness, medium plasticity, no odor.	
					11			
		1.1			12		Clay (CL), trace gravel, medium grayish brown, moist.	
					13			
					14		Clay (CL), medium brown, moist, stiff, medium plasticity, no odor.	
					15		Gravelly clay (CL), medium brown, moist, poorly sorted, no odor.	
					16			
					17		Clay (CL), olive brown, moist, stiff, medium plasticity, no odor	
					18			
		0.4			19			
					20		Bottom of Boring 20'	

SGI environmental **THE SOURCE GROUP, INC.**

BORING/WELL ID: **SB-35**

PROJECT NAME AND ADDRESS:	AB&I Foundry	Project No.	01-ABI-001
BORING LOCATION (AT SITE):	Parking lot	Logged By:	Nathan Colton
CONTRACTOR AND EQUIPMENT:	Vironex Geoprobe		
SAMPLING METHOD:	Continues	MONITORING DEVICE:	MiniRae 2000
START DATE/ TIME):	11/26/2007 1140	FINISH DATE/ TIME	11/26/2007 1230
FIRST WATER (BGS):	11.5'	STABILIZED WATER LEVEL:	
SURFACE ELEVATION:		CASING TOP ELEVATION:	
TOTAL BORING DEPTH(S):	15'	BORING DIAMETER/DEPTH:	2" 15'

Date/Time	Sample Interval	PID (ppm)	Recovery	Stratigraphy	Depth (feet)	Water-level	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED	Well construction details
					0			
					1		Hand auger to 5' bgs.	
					2			
					3			
					4			
					5		NR	
					6			
					7			
					8			
		0.6			9			
					10		Gravelly clay (CL), black, moist, soft, medium plasticity, no odor.	
					11	▼	Not much recovery, very wet, water moving soil sample gravel. Appears to be gravelly clay,	
					12		black, very wet, loose, no odor.	
					13			
							Gravelly sand (SP), dark gray, wet, loose, poorly sorted, no odor.	
					14		Clay (CL), dark gray, moist, stiff, medium plasticity, no odor.	
					15		Bottom of Boring 15'	
					16			
					17			
					18			
					19			
					20			

SGI environmental **THE SOURCE GROUP, INC.**

BORING/WELL ID: **SB-36**

PROJECT NAME AND ADDRESS:	AB&I Foundry	Project No.	01-ABI-001
BORING LOCATION (AT SITE):	Parking lot	Logged By:	Nathan Colton
CONTRACTOR AND EQUIPMENT:	Vironex Geoprobe		
SAMPLING METHOD:	Continues	MONITORING DEVICE:	MiniRae 2000
START DATE/ (TIME):	11/26/2007 1300	FINISH DATE/ TIME	11/26/2007 1400
FIRST WATER (BGS):	11.5'	STABILIZED WATER LEVEL:	
SURFACE ELEVATION:		CASING TOP ELEVATION:	
TOTAL BORING DEPTH(S):	15'	BORING DIAMETER/DEPTH:	2" 15'

Date/Time	Sample Interval	PID (ppm)	Recovery	Stratigraphy	Depth (feet)	Water-level	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED	Well construction details
					0			
					1		Silt (ML), light gray/white, dry, crumbly, no odor, fill.	
					2			
					3			
					4			
					5		NR	
					6			
					7			
					8			
					9			
					10			
					11	▼	Very wet, water in empty sleeve.	
					12			
					13			
					14		Gravel (GP), dark gray, wet, loose, poorly sorted, 1/4" - 1/2" subangular, no odor.	
					15		**Bottom of Boring 15'**	
					16			
					17			
					18			
					19			
					20			

SGI environmental **THE SOURCE GROUP, INC.**

BORING/WELL ID: **SB-37**

PROJECT NAME AND ADDRESS:	AB&I Foundry	Project No.	01-ABI-001
BORING LOCATION (AT SITE):	Parking lot	Logged By:	Nathan Colton
CONTRACTOR AND EQUIPMENT:	Vironex Geoprobe 6600		
SAMPLING METHOD:	Macro	MONITORING DEVICE:	MiniRae 2000
START DATE/ (TIME):	11/26/2007 1110	FINISH DATE/ TIME	11/26/2007
FIRST WATER (BGS):	17.5'	STABILIZED WATER LEVEL:	
SURFACE ELEVATION:		CASING TOP ELEVATION:	
TOTAL BORING DEPTH(S):	20'	BORING DIAMETER/DEPTH:	2" 20'

Date/Time	Sample Interval	PID (ppm)	Recovery	Stratigraphy	Depth (feet)	Water-level	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED	Well construction details
					0			
					1		Cement debris, fill.	
					2		Clay (CL), dark brown, moist, stiff, medium plasticity, no odor	
					3			
					4			
					5			
					6			
					7			
					8		Some gravel, subangular 1/4" diameter	
		0.4			9			
					10		Clay (CL), grayish brown, moist, stiff, medium plasticity, no odor.	
					11			
					12		Olive brown, moist, medium stiffness, medium plasticity, no odor	
					13			
					14			
					15			
					16	▼	Silty sand (SM), fine grained, olive brown, wet, loose, well sorted, no odor.	
					17		Clay (CL), grayish brown, moist, stiff, medium plasticity, no odor.	
					18			
					19			
					20		Bottom of Boring 20'	

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BORING/WELL ID: **SB-38**

PROJECT NAME AND ADDRESS:	AB&I Foundry	Project No.	01-ABI-001
BORING LOCATION (AT SITE):		Logged By:	Nathan Colton
CONTRACTOR AND EQUIPMENT:	WDC Geoprobe 7730DT		
SAMPLING METHOD:	325 continuous	MONITORING DEVICE:	MiniRae 2000
START DATE/ (TIME):	7/8/08 900	FINISH DATE/ TIME	7/8/08 1300
FIRST WATER (BGS):	19.5'	STABILIZED WATER LEVEL:	
SURFACE ELEVATION:		CASING TOP ELEVATION:	
TOTAL BORING DEPTH(S):	44'	BORING DIAMETER/DEPTH:	4" 44'

Date/Time	Sample Interval	PID (ppm)	Recovery	Stratigraphy	Depth (feet)	Water-level	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED	Well construction details
					0			
					1		Cement debris, fill.	
					2		Silty Clay, trace gravel (concrete?), dark gray, soft, moderate plasticity, faint odor (petroleum?)	
					3			
					4			
		0.3			5		Clay, dark gray, moist, soft, moderate plasticity, no odor	
					6			
					7			
					8		Clay, olive brown, moist, soft, moderate plasticity, no odor	
		1.4			9			
					10			
					11			
					12		same as above, moist to wet	
					13			
					14			
		0.3			15		Sandy Clay, olive brown, some gravel, 1/4" subangular, well graded, med-grained, no odor	
		3.6			16		Clay, olive brown, moist, stiff, low plasticity, no odor	
					17			
					18			
					19	▼		
					20			

SGI environmental **THE SOURCE GROUP, INC.**

BORING/WELL ID: **SB-38**

PROJECT NAME AND ADDRESS:	AB&I Foundry	Project No.	01-ABI-001
BORING LOCATION (AT SITE):		Logged By:	Nathan Colton
CONTRACTOR AND EQUIPMENT:	WDC Geoprobe 7730DT		
SAMPLING METHOD:	325 continuous	MONITORING DEVICE:	MiniRae 2000
START DATE/ (TIME):	7/8/08 900	FINISH DATE/ TIME	7/8/08 1300
FIRST WATER (BGS):		STABILIZED WATER LEVEL:	
SURFACE ELEVATION:		CASING TOP ELEVATION:	
TOTAL BORING DEPTH(S):	44'	BORING DIAMETER/DEPTH:	4" 44'

Date/Time	Sample Interval	PID (ppm)	Recovery	Stratigraphy	Depth (feet)	Water-level	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHE	Well construction details
		1.9			20			
					21			
					22		Silty Clay, olive brown, moist, soft, low plasticity, no odor	
					23		Silty Sand, olive brown, medium-grained, some gravel, 1/2" subangular, well graded, no odor	
					24			
					25			
					26			
					27		Clay, olive brown, some gravel, 1/4" subangular, moist, stiff, low plasticity, no odor	
					28			
					29		Gravelly Sand, medium grained, 1/2" subangular, moist, well graded, no odor	
					30		Clay, medium brown, wet, stiff, moderate plasticity, no odor	
					31			
					32		Silt, medium brown, wet, soft, no odor	
					33		Clay, light gray, moist, stiff, moderate plasticity, no odor	
					34			
					35			
					36		same as above, soft, moist to wet	
					37			
					38			
					39			
					40			

SGI environmental **THE SOURCE GROUP, INC.**

BORING/WELL ID: **SB-38**

PROJECT NAME AND ADDRESS:	AB&I Foundry	Project No.	01-ABI-001
BORING LOCATION (AT SITE):		Logged By:	Nathan Colton
CONTRACTOR AND EQUIPMENT:	WDC Geoprobe 7730DT		
SAMPLING METHOD:	325 continuous	MONITORING DEVICE:	MiniRae 2000
START DATE/ (TIME):	7/8/08 900	FINISH DATE/ TIME	7/8/08 1300
FIRST WATER (BGS):		STABILIZED WATER LEVEL:	
SURFACE ELEVATION:		CASING TOP ELEVATION:	
TOTAL BORING DEPTH(S):	44'	BORING DIAMETER/DEPTH:	4" 44'

Date/Time	Sample Interval	PID (ppm)	Recovery	Stratigraphy	Depth (feet)	Water-level	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHER	Well construction details
		1.9			40			
					41			
					42			
					43			
					44		Refusal at 44'	
					45			
					46			
					47			
					48			
					49			
					50			
					51			
					52			
					53			
					54			
					55			
					56			
					57			
					58			
					59			
					60			

SGI environmental **THE SOURCE GROUP, INC.**

BORING/WELL ID: **SB-39**

PROJECT NAME AND ADDRESS:	AB&I Foundry	Project No.	01-ABI-001
BORING LOCATION (AT SITE):		Logged By:	Nathan Colton
CONTRACTOR AND EQUIPMENT:	WDC Geoprobe 7730DT		
SAMPLING METHOD:	325 continuous	MONITORING DEVICE:	MiniRae 2000
START DATE/ (TIME):	7/8/08 1355	FINISH DATE/ TIME	7/8/08 1645
FIRST WATER (BGS):		STABILIZED WATER LEVEL:	
SURFACE ELEVATION:		CASING TOP ELEVATION:	
TOTAL BORING DEPTH(S):	43'	BORING DIAMETER/DEPTH:	4" 43'

Date/Time	Sample Interval	PID (ppm)	Recovery	Stratigraphy	Depth (feet)	Water-level	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED	Well construction details
					0			
					1			
					2			
					3			
					4			
					5			
					6			
					7			
					8			
					9			
					10			
					11			
					12			
					13			
					14			
					15			
					16			
					17			
					18			
					19	▼		
					20			

SGI environmental THE SOURCE GROUP, INC.								BORING/WELL ID: SB-39
PROJECT NAME AND ADDRESS:			AB&I Foundry				Project No.	01-ABI-001
BORING LOCATION (AT SITE):							Logged By:	Nathan Colton
CONTRACTOR AND EQUIPMENT:			WDC Geoprobe 7730DT					
SAMPLING METHOD:			325 continuous		MONITORING DEVICE:		MiniRae 2000	
START DATE/ (TIME):			7/8/08 1355		FINISH DATE/ TIME		7/8/08 1645	
FIRST WATER (BGS):					STABILIZED WATER LEVEL:			
SURFACE ELEVATION:					CASING TOP ELEVATION:			
TOTAL BORING DEPTH(S):			43'		BORING DIAMETER/DEPTH:		4" 43'	

Date/Time	Sample Interval	PID (ppm)	Recovery	Stratigraphy	Depth (feet)	Water-level	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHE	Well construction details
		7			20		Clay, olive brown to med. Brown, moist, stiff, low plasticity, no odor	
					21			
					22			
					23			
					24			
		2			25		Clay, black, moist, soft, moderate plasticity, no odor	
					26		same as above, bluish gray, very stiff	
					27			
					28			
					29			
					30			
		4.4			31		Sandy Clay, medium brown, fine-grained, wet, no odor	
					32		Clay, medium brown, moist, stiff, moderate plasticity, no odor	
					33			
					34			
		2			35			
					36			
					37			
					38		Silty Clay, olive brown, moist, stiff, moderate platicity, no odor	
					39			
					40			

SGI environmental **THE SOURCE GROUP, INC.**

BORING/WELL ID: **SB-39**

PROJECT NAME AND ADDRESS:	AB&I Foundry	Project No.	01-ABI-001
BORING LOCATION (AT SITE):		Logged By:	Nathan Colton
CONTRACTOR AND EQUIPMENT:	WDC Geoprobe 7730DT		
SAMPLING METHOD:	325 continuous	MONITORING DEVICE:	MiniRae 2000
START DATE/ (TIME):	7/8/08 1355	FINISH DATE/ TIME	7/8/08 1645
FIRST WATER (BGS):		STABILIZED WATER LEVEL:	
SURFACE ELEVATION:		CASING TOP ELEVATION:	
TOTAL BORING DEPTH(S):	43'	BORING DIAMETER/DEPTH:	4" 43'

Date/Time	Sample Interval	PID (ppm)	Recovery	Stratigraphy	Depth (feet)	Water-level	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHER	Well construction details
					40		Clay, dark brown, very stiff (tough drilling), moist, moderate plasticity, no odor	
		0.5			41			
					42			
					43		Refusal at 43'	
					44			
					45			
					46			
					47			
					48			
					49			
					50			
					51			
					52			
					53			
					54			
					55			
					56			
					57			
					58			
					59			
					60			

SGI environmental	THE SOURCE GROUP, INC.		BORING/WELL ID: SB-40
PROJECT NAME AND ADDRESS:	AB&I Foundry		Project No. 01-ABI-001
BORING LOCATION (AT SITE):			Logged By: Nathan Colton
CONTRACTOR AND EQUIPMENT:	WDC Geoprobe 7730DT		
SAMPLING METHOD:	325 continuous	MONITORING DEVICE:	MiniRae 2000
START DATE/ (TIME):	7/9/08 640	FINISH DATE/ TIME	7/9/08 900
FIRST WATER (BGS):		STABILIZED WATER LEVEL:	
SURFACE ELEVATION:		CASING TOP ELEVATION:	
TOTAL BORING DEPTH(S):	35'	BORING DIAMETER/DEPTH:	4" 35'

Date/Time	Sample Interval	PID (ppm)	Recovery	Stratigraphy	Depth (feet)	Water-level	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED	Well construction details
					0		asphalt	
			80		1		Clay, orangish brown, some gravel, 1/2" - 3/4" subangular, stiff, low plasticity, no odor. FILL	
					2			
					3			
					4		Sandy Clay, bluish gray, fine-grained sands, loose, no odor.	
					5			
					6		Clay, dark gray, moist, stiff, moderate plasticity, no odor	
					7			
					8			
					9			
		0.5	100		10			
					11			
					12			
					13		Silty Clay, olive brown, moist to wet, soft , moderate plasticity, no odor	
					14			
		1.2			15			
					16			
					17		Gravelly Clay, olive brown, 1/4" subangular, moist to wet, moderate plasticity, no odor.	
					18			
					19	▼		
					20			

SGI environmental **THE SOURCE GROUP, INC.**

BORING/WELL ID: **SB-40**

PROJECT NAME AND ADDRESS:	AB&I Foundry	Project No.	01-ABI-001
BORING LOCATION (AT SITE):		Logged By:	Nathan Colton
CONTRACTOR AND EQUIPMENT:	WDC Geoprobe 7730DT		
SAMPLING METHOD:	325 continuous	MONITORING DEVICE:	MiniRae 2000
START DATE/ (TIME):	7/9/08 640	FINISH DATE/ TIME	7/9/08 900
FIRST WATER (BGS):		STABILIZED WATER LEVEL:	
SURFACE ELEVATION:		CASING TOP ELEVATION:	
TOTAL BORING DEPTH(S):	35'	BORING DIAMETER/DEPTH:	4" 35'

Date/Time	Sample Interval	PID (ppm)	Recovery	Stratigraphy	Depth (feet)	Water-level	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHE	Well construction details
			100		20			
					21			
					22			
					23		same as above, trace gravel, 1/2" subangular	
		4			24		Clay, olive brown, moist, stiff, moderate plasticity, no odor, trace silt	
					25		Clay, olive brown, moist, stiff, moderate plasticity, no odor	
					26			
					27			
					28			
		2.3			29			
					30			
					31			
					32			
					33			
							Sand, medium brown, medium-grained, wet, loose, poorly graded, no odor	
		2.3			34			
					35		Heaving sands encountered at 35' bgs	
					36			
					37			
					38			
					39			
					40			

SGI environmental	THE SOURCE GROUP, INC.	BORING/WELL ID: SB-41

PROJECT NAME AND ADDRESS:	AB&I Foundry	Project No.	01-ABI-001
BORING LOCATION (AT SITE):		Logged By:	Nathan Colton
CONTRACTOR AND EQUIPMENT:	WDC Geoprobe 7730DT		
SAMPLING METHOD:	325 continuous	MONITORING DEVICE:	MiniRae 2000
START DATE/ (TIME):	7/9/08 900	FINISH DATE/ TIME	7/9/08 1100
FIRST WATER (BGS):		STABILIZED WATER LEVEL:	
SURFACE ELEVATION:		CASING TOP ELEVATION:	
TOTAL BORING DEPTH(S):	35'	BORING DIAMETER/DEPTH:	4" 35'

Date/Time	Sample Interval	PID (ppm)	Recovery	Stratigraphy	Depth (feet)	Water-level	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED	Well construction details
					0		asphalt	
					1		Gravelly Clay (fill)	
					2			
					3		Clay, dark gray, some gravel (fill)	
					4			
					5		No Recovery	
					6			
					7		Sand, light gray, coarse-grained, wet, poorly graded, no odor.	
					8		Clay, black, moist, stiff, moderate plasticity, no odor	
					9			
					10		Clay, bluish gray, moist, soft, moderate plasticity, no odor	
					11			
					12			
					13			
					14			
					15			
					16			
					17			
					18			
					19	▼		
					20			

SGI environmental **THE SOURCE GROUP, INC.**

BORING/WELL ID: **SB-41**

PROJECT NAME AND ADDRESS:	AB&J Foundry	Project No.	01-ABI-001
BORING LOCATION (AT SITE):		Logged By:	Nathan Colton
CONTRACTOR AND EQUIPMENT:	WDC Geoprobe 7730DT		
SAMPLING METHOD:	325 continuous	MONITORING DEVICE:	MiniRae 2000
START DATE/ (TIME):	7/9/08 900	FINISH DATE/ TIME	7/9/08 1100
FIRST WATER (BGS):		STABILIZED WATER LEVEL:	
SURFACE ELEVATION:		CASING TOP ELEVATION:	
TOTAL BORING DEPTH(S):	35'	BORING DIAMETER/DEPTH:	4" 35'

Date/Time	Sample Interval	PID (ppm)	Recovery	Stratigraphy	Depth (feet)	Water-level	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHE	Well construction details
			100		20			
					21			
					22		Silty Clay, olive brown, moist, stiff, moderate plasticity, no odor, some 1/4" red gravel	
					23			
		0.2			24			
					25		Clay, olive brown, moist, stiff, moderate plasticity, no odor	
					26			
					27			
					28			
		2.3			29			
					30			
					31			
					32			
					33		Sand, olive brown, medium-grained, wet, loose, poorly graded, no odor	
					34			
					35		Heaving sands encountered at 35' bgs	
					36			
					37			
					38			
					39			
					40			

SGI environmental **THE SOURCE GROUP, INC.**

BORING/WELL ID: **SB-42**

PROJECT NAME AND ADDRESS:	AB&I Foundry	Project No.	01-ABI-001
BORING LOCATION (AT SITE):		Logged By:	Nathan Colton
CONTRACTOR AND EQUIPMENT:	WDC Geoprobe 7730DT		
SAMPLING METHOD:	325 continuous	MONITORING DEVICE:	MiniRae 2000
START DATE/ (TIME):	7/9/08 1442	FINISH DATE/ TIME	7/9/08 1645
FIRST WATER (BGS):		STABILIZED WATER LEVEL:	
SURFACE ELEVATION:		CASING TOP ELEVATION:	
TOTAL BORING DEPTH(S):	45'	BORING DIAMETER/DEPTH:	4" 45'

Date/Time	Sample Interval	PID (ppm)	Recovery	Stratigraphy	Depth (feet)	Water-level	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED	Well construction details
					0			
					1		0' bgs to 20' bgs see boring SB-13	
					2			
					3			
					4			
					5			
					6			
					7			
					8			
					9			
					10			
					11			
					12			
					13			
					14			
					15			
					16			
					17			
					18			
					19			
					20			

SGI environmental	THE SOURCE GROUP, INC.	BORING/WELL ID: SB-42

PROJECT NAME AND ADDRESS:	AB&I Foundry	Project No.	01-ABI-001
BORING LOCATION (AT SITE):		Logged By:	Nathan Colton
CONTRACTOR AND EQUIPMENT:	WDC Geoprobe 7730DT		
SAMPLING METHOD:	325 continuous	MONITORING DEVICE:	MiniRae 2000
START DATE/ (TIME):	7/9/08 1442	FINISH DATE/ TIME	7/9/08 1645
FIRST WATER (BGS):		STABILIZED WATER LEVEL:	
SURFACE ELEVATION:		CASING TOP ELEVATION:	
TOTAL BORING DEPTH(S):	45'	BORING DIAMETER/DEPTH:	4" 45'

Date/Time	Sample Interval	PID (ppm)	Recovery	Stratigraphy	Depth (feet)	Water-level	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHE	Well construction details
			100		20		Clay, bluish gray, moist, stiff, moderate plasticity, no odor	
					21			
					22			
					23			
		1.8			24			
			100		25			
					26			
					27			
					28			
		1.8	100		29 30			
					31		Clay, medium brown, moist, stiff, moderate plasticity, no odor	
					32			
					33			
		0			34			
					35			
					36			
					37			
					38			
1618	X				39			
					40			

SGI environmental **THE SOURCE GROUP, INC.**

BORING/WELL ID: **SB-42**

PROJECT NAME AND ADDRESS:	AB&I Foundry	Project No.	01-ABI-001
BORING LOCATION (AT SITE):		Logged By:	Nathan Colton
CONTRACTOR AND EQUIPMENT:	WDC Geoprobe 7730DT		
SAMPLING METHOD:	325 continuous	MONITORING DEVICE:	MiniRae 2000
START DATE/ (TIME):	7/9/08 1442	FINISH DATE/ TIME	7/9/08 1645
FIRST WATER (BGS):		STABILIZED WATER LEVEL:	
SURFACE ELEVATION:		CASING TOP ELEVATION:	
TOTAL BORING DEPTH(S):	45'	BORING DIAMETER/DEPTH:	4" 45'

Date/Time	Sample Interval	PID (ppm)	Recovery	Stratigraphy	Depth (feet)	Water-level	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHER	Well construction details
					40			
					41			
					42			
					43			
					44			
					45		**Refusal at 45'**	
					46			
					47			
					48			
					49			
					50			
					51			
					52			
					53			
					54			
					55			
					56			
					57			
					58			
					59			
					60			

SGI environmental **THE SOURCE GROUP, INC.**

BORING/WELL ID: **SB-44**

PROJECT NAME AND ADDRESS:	AB&I Foundry	Project No.	01-ABI-001
BORING LOCATION (AT SITE):		Logged By:	Nathan Colton
CONTRACTOR AND EQUIPMENT:	WDC Geoprobe 7730DT		
SAMPLING METHOD:	325 continuous	MONITORING DEVICE:	MiniRae 2000
START DATE/ (TIME):	7/10/08 630	FINISH DATE/ TIME	7/10/2008
FIRST WATER (BGS):		STABILIZED WATER LEVEL:	
SURFACE ELEVATION:		CASING TOP ELEVATION:	
TOTAL BORING DEPTH(S):	35'	BORING DIAMETER/DEPTH:	4" 35'

Date/Time	Sample Interval	PID (ppm)	Recovery	Stratigraphy	Depth (feet)	Water-level	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED	Well construction details
					0		Concrete	
					1		No Recovery	
					2			
					3		Silt, black, dry, loose, trace gravel, (concrete?) FILL	
1305	X	3.5			4		Clay, black, wet, stiff, moderate plasticity, strong petroleum odor FILL	
					5		No Recovery	
					6		Clay, black, moist, stiff, moderate plasticity, petroleum odor	
					7			
					8			
1315	X	9			9		same as above, bluish gray	
					10			
					11			
					12			
					13			
1320	X	25			14			
					15			
					16			
					17		Clay, light bluish brown, moisit, very stiff, moderate plasticity, faint petroleum odor	
					18			
1330	X	2.4			19		same as above, brown, no odor	
					20			

SGI environmental **THE SOURCE GROUP, INC.**

BORING/WELL ID: **SB-44**

PROJECT NAME AND ADDRESS:	AB&I Foundry	Project No.	01-ABI-001
BORING LOCATION (AT SITE):		Logged By:	Nathan Colton
CONTRACTOR AND EQUIPMENT:	WDC Geoprobe 7730DT		
SAMPLING METHOD:	325 continuous	MONITORING DEVICE:	MiniRae 2000
START DATE/ (TIME):	7/10/08 630	FINISH DATE/ TIME	7/10/2008
FIRST WATER (BGS):		STABILIZED WATER LEVEL:	
SURFACE ELEVATION:		CASING TOP ELEVATION:	
TOTAL BORING DEPTH(S):	35'	BORING DIAMETER/DEPTH:	4" 35'

Date/Time	Sample Interval	PID (ppm)	Recovery	Stratigraphy	Depth (feet)	Water-level	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHE	Well construction details
					20		Gravelly Clay, medium brown, 1/4" subangular, moist, no odor	
					21		Gravelly Sand, dark brown, wet, loose, medium-grained, 1/2" subangular, well graded, no odor	
					22		Gravelly Clay, dark brown, moist, stiff, low plasticity, no odor	
					23		Clay, medium brown, moist, stiff, moderate plasticity, no odor	
1340	X				24			
					25			
					26			
					27			
					28			
					29		Sand, medium to dark brown, wet, medium-grained, loose, poorly graded, no odor, trace gravel, 1/2" subangular	
					30		Heaving sands encountered at 30' (10 feet of dual wall core filled with sand)	
					31			
					32			
					33			
		0			34			
					35			
					36			
					37			
					38			
1618	X				39			
					40			

SGI environmental

THE SOURCE GROUP, INC.

BORING/WELL ID: **SB-45**

PROJECT NAME AND ADDRESS:	AB&I Foundry	Project No.	01-ABI-001
BORING LOCATION (AT SITE):		Logged By:	Nathan Colton
CONTRACTOR AND EQUIPMENT:	WDC Geoprobe 7730DT		
SAMPLING METHOD:	325 continuous	MONITORING DEVICE:	MiniRae 2000
START DATE/ (TIME):	7/10/08 630	FINISH DATE/ TIME	7/10/2008
FIRST WATER (BGS):		STABILIZED WATER LEVEL:	
SURFACE ELEVATION:		CASING TOP ELEVATION:	
TOTAL BORING DEPTH(S):	35'	BORING DIAMETER/DEPTH:	4" 35'

Date/Time	Sample Interval	PID (ppm)	Recovery	Stratigraphy	Depth (feet)	Water-level	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED	Well construction details
					0		Concrete	
					1		Gravelly Clay, very dark gray, moist, soft, low plasticity, no odor (fill)	
					2		Silt, dark gray, moist, loose, petroleum odor	
					3		Clay, dark grayish black, moist, stiff, low plasticity, petroleum odor, trace concrete pieces	
1305	X	3.5			4			
					5			
					6			
					7		Clay, dark bluish gray, moist, stiff, moderate plasticity, no odor	
					8			
1315	X	9			9		same as above, some silt (Silty Clay?)	
					10			
					11		Silty Clay, bluish gray, trace gravel, moist, stiff, low plasticity, petroleum odor	
					12		Clayey Sand, bluish gray, medium-grained, 1/2" subangular gravel, wet, petroleum odor	
					13			
1320	X	25			14		Clay, medium brown, moist, stiff, moderate plasticity, no odor	
					15			
					16			
					17			
					18			
1330	X	2.4			19		Sandy Clay, bluish gray, fine-grained, loose, poorly graded, petroleum odor	
					20			

SGI environmental **THE SOURCE GROUP, INC.**

BORING/WELL ID: **SB-45**

PROJECT NAME AND ADDRESS:	AB&I Foundry	Project No.	01-ABI-001
BORING LOCATION (AT SITE):		Logged By:	Nathan Colton
CONTRACTOR AND EQUIPMENT:	WDC Geoprobe 7730DT		
SAMPLING METHOD:	325 continuous	MONITORING DEVICE:	MiniRae 2000
START DATE/ (TIME):	7/10/08 630	FINISH DATE/ TIME	7/10/2008
FIRST WATER (BGS):		STABILIZED WATER LEVEL:	
SURFACE ELEVATION:		CASING TOP ELEVATION:	
TOTAL BORING DEPTH(S):	35'	BORING DIAMETER/DEPTH:	4" 35'

Date/Time	Sample Interval	PID (ppm)	Recovery	Stratigraphy	Depth (feet)	Water-level	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHE	Well construction details
					20			
					21		Gravelly Sand, medium brown, medium-grained, wet, well graded, no odor, 3/4" subangular gravel	
					22			
					23			
1340	☒				24			
					25			
					26			
					27			
					28			
					29			
					30		**Heaving sands encountered at 30' (10 feet of dual wall core filled with sand)**	
					31			
					32			
					33			
		0			34			
					35			
					36			
					37			
					38			
1618	☒				39			
					40			

SGI environmental	THE SOURCE GROUP, INC.			BORING/WELL ID: SB-46
PROJECT NAME AND ADDRESS:	AB&I Foundry			Project No. 01-ABI-001
BORING LOCATION (AT SITE):				Logged By: Nathan Collon
CONTRACTOR AND EQUIPMENT:	WDC Geoprobe 7730DT			
SAMPLING METHOD:	325 continuous	MONITORING DEVICE:	MiniRae 2000	
START DATE/ (TIME):	7/10/08 1200	FINISH DATE/ TIME	7/10/08 1430	
FIRST WATER (BGS):		STABILIZED WATER LEVEL:		
SURFACE ELEVATION:		CASING TOP ELEVATION:		
TOTAL BORING DEPTH(S):	45'	BORING DIAMETER/DEPTH:	4" 45'	

Date/Time	Sample Interval	PID (ppm)	Recovery	Stratigraphy	Depth (feet)	Water-level	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED	Well construction details
					0			
					1		Clay, very dark brown, moist, medium stiffness, moderate plasticity, no odor, trace gravel (concrete?) FILL	
					2			
					3			
					4			
					5		No Recovery	
					6			
					7		Silty Sand, olive brown, fine-grained, wet, loose, well graded, no odor	
					8			
					9		Clay, very dark grayish black, stiff, moderate plasticity, specks of brown silt, no odor	
					10			
					11			
					12		same as above, grayish brown, soft, sticky clay	
					13			
					14			
					15		No Recovery	
					16		Gravelly Clay, medium grayish brown, wet, soft, 1/4" subangular, no odor	
					17			
					18		same as above, stiff, moist, low plasticity, no odor, some sand, fine-grained	
					19			
					20			

SGI environmental	THE SOURCE GROUP, INC.			BORING/WELL ID: SB-46
PROJECT NAME AND ADDRESS:	AB&I Foundry		Project No.	01-ABI-001
BORING LOCATION (AT SITE):			Logged By:	Nathan Colton
CONTRACTOR AND EQUIPMENT:	WDC Geoprobe 7730DT			
SAMPLING METHOD:	325 continuous	MONITORING DEVICE:	MiniRae 2000	
START DATE/ (TIME):	7/10/08 1200	FINISH DATE/ TIME	7/10/08 1430	
FIRST WATER (BGS):		STABILIZED WATER LEVEL:		
SURFACE ELEVATION:		CASING TOP ELEVATION:		
TOTAL BORING DEPTH(S):	45'	BORING DIAMETER/DEPTH:	4" 45'	

Date/Time	Sample Interval	PID (ppm)	Recovery	Stratigraphy	Depth (feet)	Water-level	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHE	Well construction details
		7			20		Clay, medium brown, stiff, moist, moderate plasticity, no odor	
					21			
					22			
					23		same as above, organic matter (roots)	
					24			
		2			25			
					26			
					27			
					28			
					29			
					30			
		4.4			31			
					32			
					33			
					34			
		2			35		same as above, wet, soft, moderate plasticity, no odor	
					36		Gravelly Clay, 1/4"-1/2" subangular	
					37			
					38		Sand, fine-grained, wet,no odor, trace gravel, 1/4"-1/2" subangular,	
					39		Clay, dark gray, moist, stiff, moderate plasticity, no odor	
					40			

SGI environmental **THE SOURCE GROUP, INC.**

BORING/WELL ID: **SB-46**

PROJECT NAME AND ADDRESS:	AB&I Foundry	Project No.	01-ABI-001
BORING LOCATION (AT SITE):		Logged By:	Nathan Colton
CONTRACTOR AND EQUIPMENT:	WDC Geoprobe 7730DT		
SAMPLING METHOD:	325 continuous	MONITORING DEVICE:	MiniRae 2000
START DATE/ (TIME):	7/10/08 1200	FINISH DATE/ TIME	7/10/08 1430
FIRST WATER (BGS):		STABILIZED WATER LEVEL:	
SURFACE ELEVATION:		CASING TOP ELEVATION:	
TOTAL BORING DEPTH(S):	45'	BORING DIAMETER/DEPTH:	4" 45'

Date/Time	Sample Interval	PID (ppm)	Recovery	Stratigraphy	Depth (feet)	Water-level	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHER	Well construction details
		0.5			40		Clay, dark brown, very stiff (tough drilling), moist, moderate plasticity, no odor	
					41			
					42			
					43			
					44			
					45		**Refusal at 45'**	
					46			
					47			
					48			
					49			
					50			
					51			
					52			
					53			
					54			
					55			
					56			
					57			
					58			
					59			
					60			

SGI environmental **THE SOURCE GROUP, INC.**

BORING/WELL ID: **SB-47**

PROJECT NAME AND ADDRESS:	AB&I Foundry	Project No.	01-ABI-001
BORING LOCATION (AT SITE):		Logged By:	Nathan Colton
CONTRACTOR AND EQUIPMENT:	WDC Geoprobe 7730DT		
SAMPLING METHOD:	325 continuous	MONITORING DEVICE:	MiniRae 2000
START DATE/ (TIME):	7/11/08 635	FINISH DATE/ TIME	7/11/08 930
FIRST WATER (BGS):		STABILIZED WATER LEVEL:	
SURFACE ELEVATION:		CASING TOP ELEVATION:	
TOTAL BORING DEPTH(S):	44'	BORING DIAMETER/DEPTH:	4" 44'

Date/Time	Sample Interval	PID (ppm)	Recovery	Stratigraphy	Depth (feet)	Water-level	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED	Well construction details
					0			
			40		1		Gravelly Clay, dark gray, dry, stiff, low plasticity, no odor, some silt	
					2			
					3		No Recovery	
		0			4			
			100		5		Clay, medium gray, stiff, moist, moderate plasticity, no odor, trace gravel, 1/4" subangular	
					6			
					7			
					8		same as above, medium brown, silt	
		2.6			9		Gravelly Clay, medium gray, stiff, moist, low plasticity, no odor, 1/4" subangular	
			100		10		Clay, medium gray, moist, stiff, moderate plasticity	
					11		same as above, faint petroleum odor, trace gravel	
					12			
					13		same as above, no gravel	
		36			14			
713	X		100		15			
					16			
					17			
					18		Sandy Clay, medium brown, fine-grained, wet, loose, no odor, trace gravel, 1'4" round	
715	X	0.9			19		Clay, medium brown, stiff, moderate plasticity, no odor	
					20			

SGI environmental **THE SOURCE GROUP, INC.**

BORING/WELL ID: **SB-47**

PROJECT NAME AND ADDRESS:	AB&I Foundry	Project No.	01-ABI-001
BORING LOCATION (AT SITE):		Logged By:	Nathan Colton
CONTRACTOR AND EQUIPMENT:	WDC Geoprobe 7730DT		
SAMPLING METHOD:	325 continuous	MONITORING DEVICE:	MiniRae 2000
START DATE/ (TIME):	7/11/08 635	FINISH DATE/ TIME	7/11/08 930
FIRST WATER (BGS):		STABILIZED WATER LEVEL:	
SURFACE ELEVATION:		CASING TOP ELEVATION:	
TOTAL BORING DEPTH(S):	44'	BORING DIAMETER/DEPTH:	4" 44'

Date/Time	Sample Interval	PID (ppm)	Recovery	Stratigraphy	Depth (feet)	Water-level	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHE	Well construction details
					20		Sandy Gravel, medium brown, wet, medium-grained, 1/4" - 1/2" subangular, well graded, no odor	
			100		21			
					22			
					23			
		0.4			24		Clayey Gravel, medium brown, moist to wet, stiff, 1/2" - 3/4" subangular, no odor	
			100		25			
					26			
					27		Clay, medium brown, moist, stiff, moderate plasticity, no odor	
					28			
		0.3			29			
					30			
			100		31			
					32			
					33			
					34			
			100		35			
					36			
					37			
					38			
					39			
					40			

SGI environmental **THE SOURCE GROUP, INC.**

BORING/WELL ID: **SB-47**

PROJECT NAME AND ADDRESS:	AB&I Foundry	Project No.	01-ABI-001
BORING LOCATION (AT SITE):		Logged By:	Nathan Colton
CONTRACTOR AND EQUIPMENT:	WDC Geoprobe 7730DT		
SAMPLING METHOD:	325 continuous	MONITORING DEVICE:	MiniRae 2000
START DATE/ (TIME):	7/11/08 635	FINISH DATE/ TIME	7/11/08 930
FIRST WATER (BGS):		STABILIZED WATER LEVEL:	
SURFACE ELEVATION:		CASING TOP ELEVATION:	
TOTAL BORING DEPTH(S):	44'	BORING DIAMETER/DEPTH:	4" 44'

Date/Time	Sample Interval	PID (ppm)	Recovery	Stratigraphy	Depth (feet)	Water-level	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHER	Well construction details
			80		40		same as above	
					41			
					42			
		1.4			43			
					44		**Refusal at 44'**	
					45			
					46			
					47			
					48			
					49			
					50			
					51			
					52			
					53			
					54			
					55			
					56			
					57			
					58			
					59			
					60			

SGI environmental **THE SOURCE GROUP, INC.**

BORING/WELL ID: **SB-48**

PROJECT NAME AND ADDRESS:	AB&I Foundry	Project No.	01-ABI-001
BORING LOCATION (AT SITE):		Logged By:	Nathan Colton
CONTRACTOR AND EQUIPMENT:	WDC Geoprobe 7730DT		
SAMPLING METHOD:	325 continuous	MONITORING DEVICE:	MiniRae 2000
START DATE/ (TIME):	7/11/08 945	FINISH DATE/ TIME	7/11/08 1200
FIRST WATER (BGS):		STABILIZED WATER LEVEL:	
SURFACE ELEVATION:		CASING TOP ELEVATION:	
TOTAL BORING DEPTH(S):	29.5'	BORING DIAMETER/DEPTH:	4" 29.5'

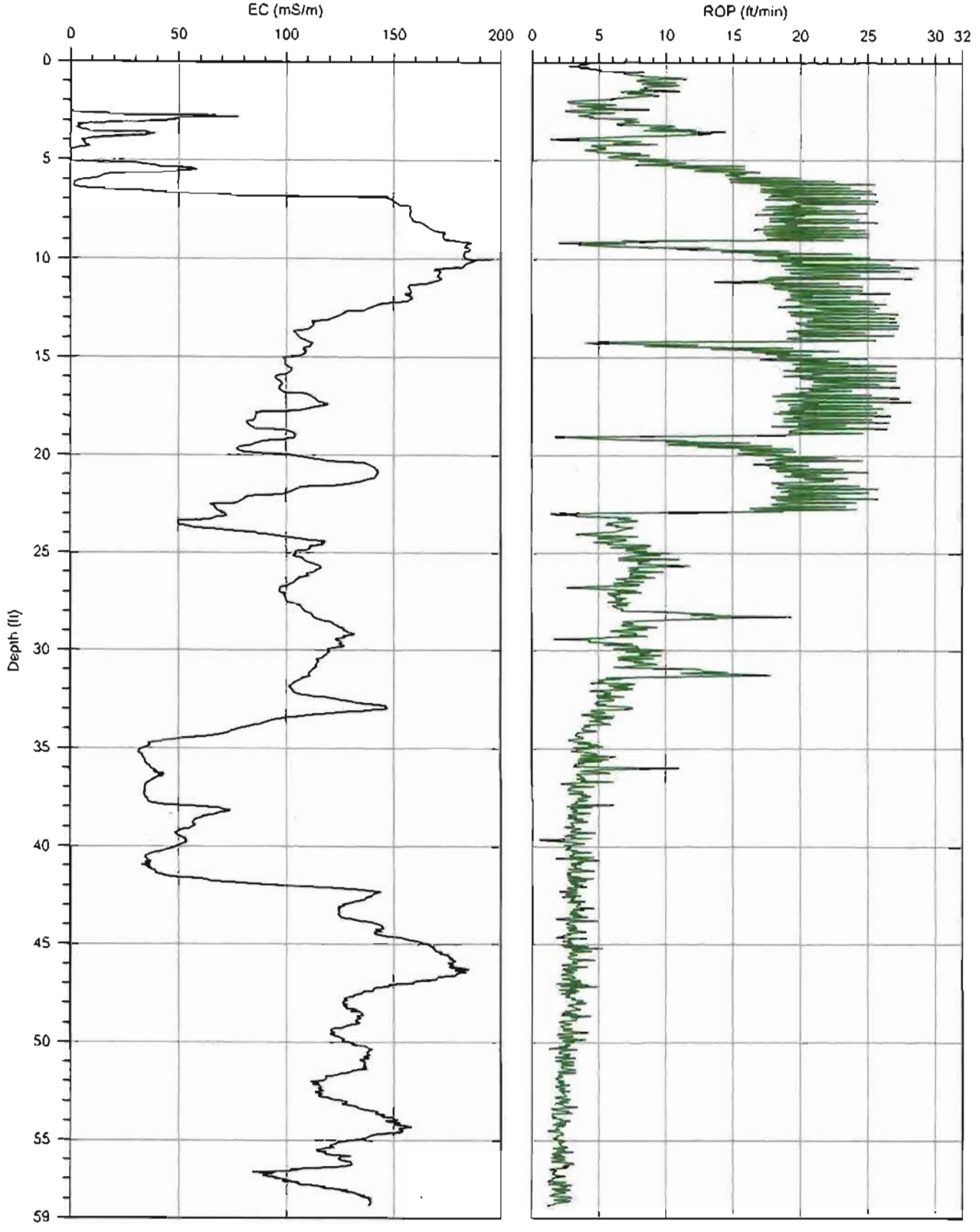
Date/Time	Sample Interval	PID (ppm)	Recovery	Stratigraphy	Depth (feet)	Water-level	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED	Well construction details
					0			
					1		no soil samples collected 0-20 ft bgs. See boring SB-22 for lithology.	
					2			
					3			
					4			
					5			
					6			
					7			
					8			
					9			
					10			
					11			
					12			
					13			
					14			
					15			
					16			
					17			
					18			
					19			
					20			

SGI environmental **THE SOURCE GROUP, INC.**

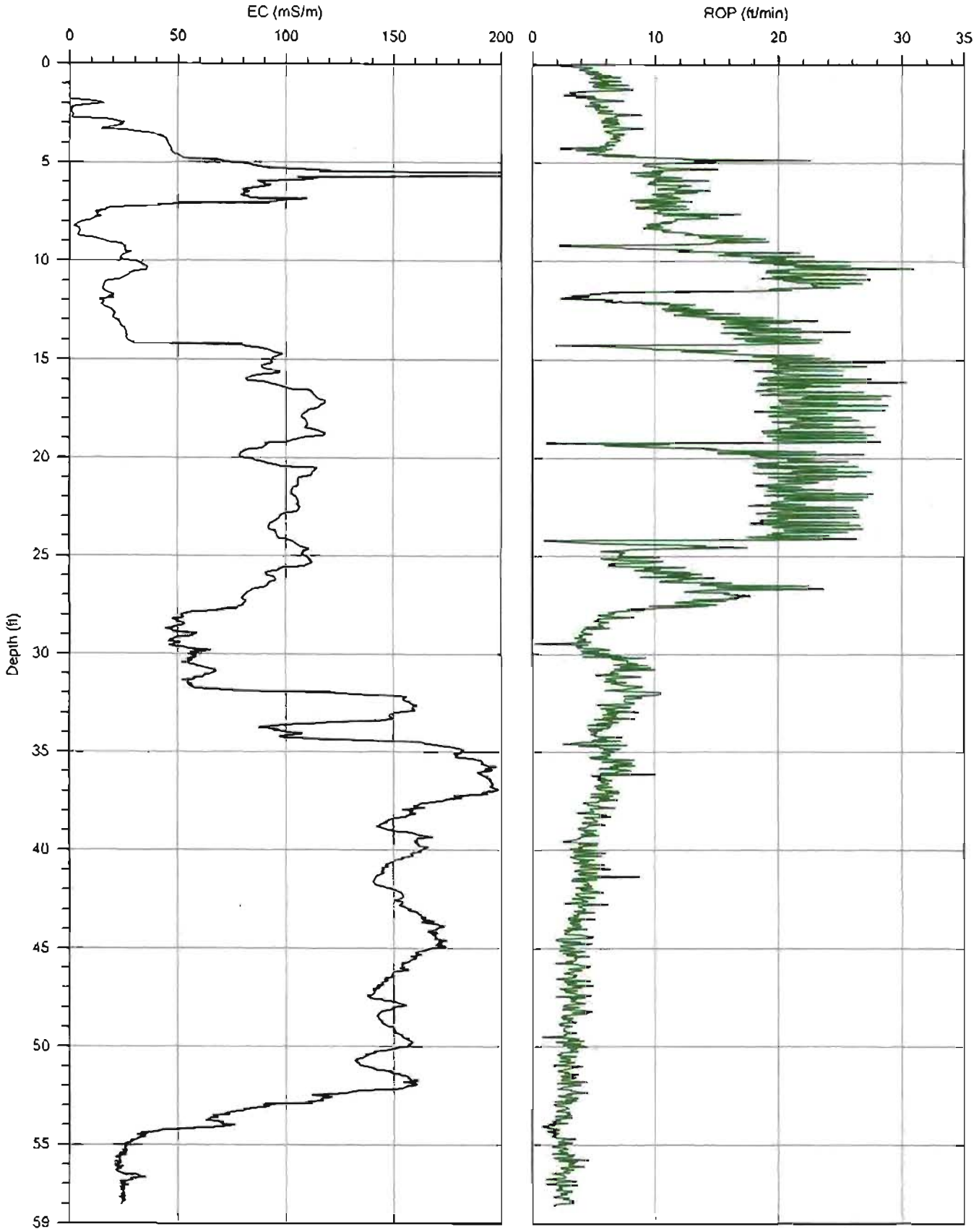
BORING/WELL ID: **SB-48**

PROJECT NAME AND ADDRESS:	AS&I Foundry	Project No.	01-ASI-001
BORING LOCATION (AT SITE):		Logged By:	Nathan Colton
CONTRACTOR AND EQUIPMENT:	WDC Geoprobe 7730DT		
SAMPLING METHOD:	325 continuous	MONITORING DEVICE:	MiniRae 2000
START DATE/ (TIME):	7/11/08 945	FINISH DATE/ TIME	7/11/08 1200
FIRST WATER (BGS):		STABILIZED WATER LEVEL:	
SURFACE ELEVATION:		CASING TOP ELEVATION:	
TOTAL BORING DEPTH(S):	29.5'	BORING DIAMETER/DEPTH:	4" 29.5'

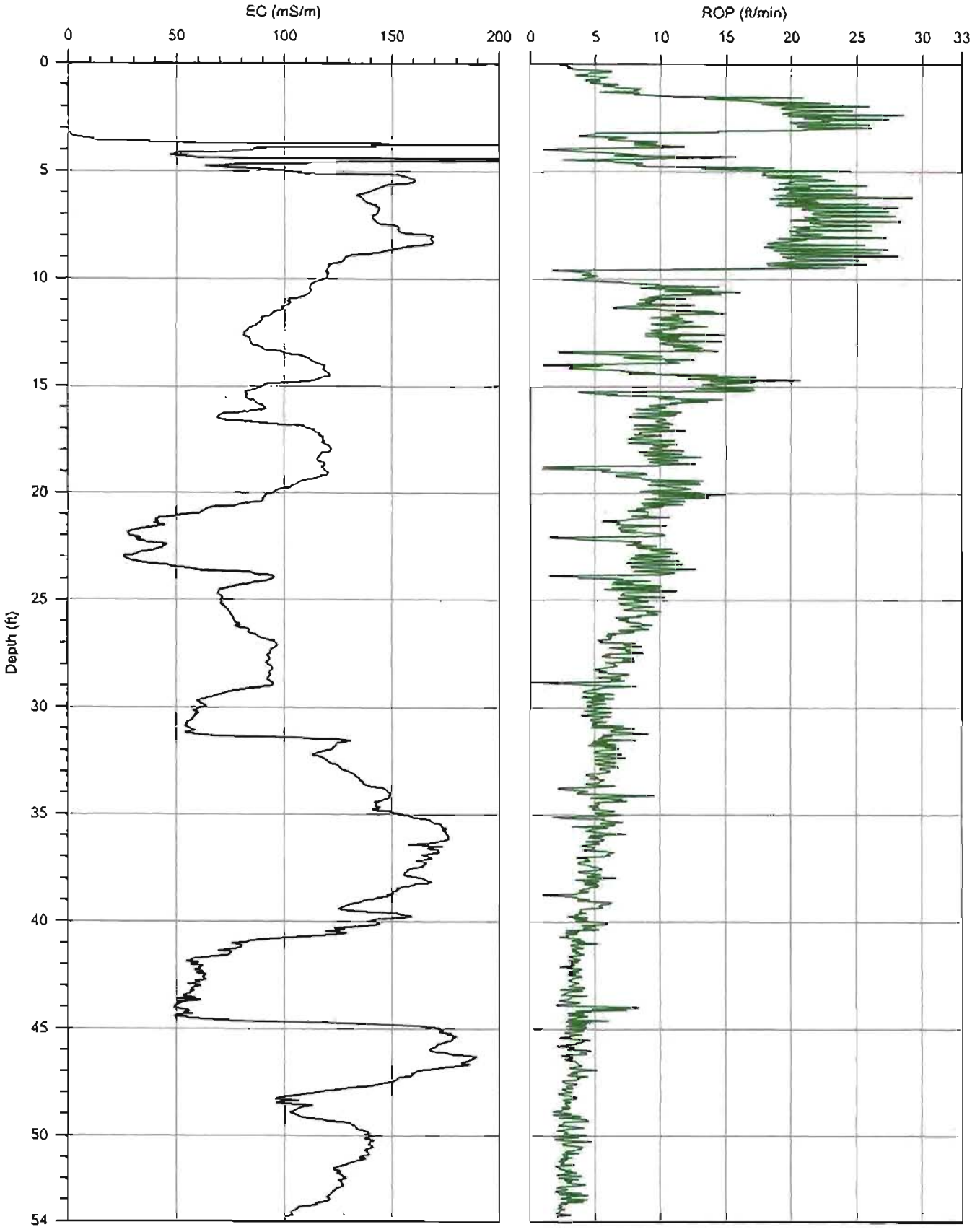
Date/Time	Sample Interval	PID (ppm)	Recovery	Stratigraphy	Depth (feet)	Water-level	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHE	Well construction details
			100		20		Clay, olive brown, moist, soft, moderate plasticity, no odor	
					21		Sandy Clay, dark gray, moist, soft, moderate plasticity, medium-grained, no odor, trace gravel, 1/4" subangular	
					22		Clay, medium brown, moist, stiff, moderate plasticity, no odor	
					23			
		1.3			24			
					25			
					26		Gravelly Clay, grayish brown, wet, 1/4" subangular, no odor	
					27		Clayey Gravel, dark gray, wet, some sand, coarse-grained	
					28		Clay, trace sand, medium brown, stiff, fine-grained, no odor	
					29		Sand, olive brown, coarse-grained, 1/2" subangular, well graded, no odor	
							Refusal at 29.5'	
					30			
					31			
					32			
					33			
					34			
					35			
					36			
					37			
					38			
					39			
					40			



Company: WDC Exploration & Wells	Operator: Tatum	File: SB-49-EC.DAT
Project ID: ABI Foundry	Client: The Source Group	Date:
		Location:



		File: SB-50-EC.DAT
Company: WDC Exploration & Wells	Operator: Tatum	Date:
Project ID: ABI Foundry	Client: The Source Group	Location:



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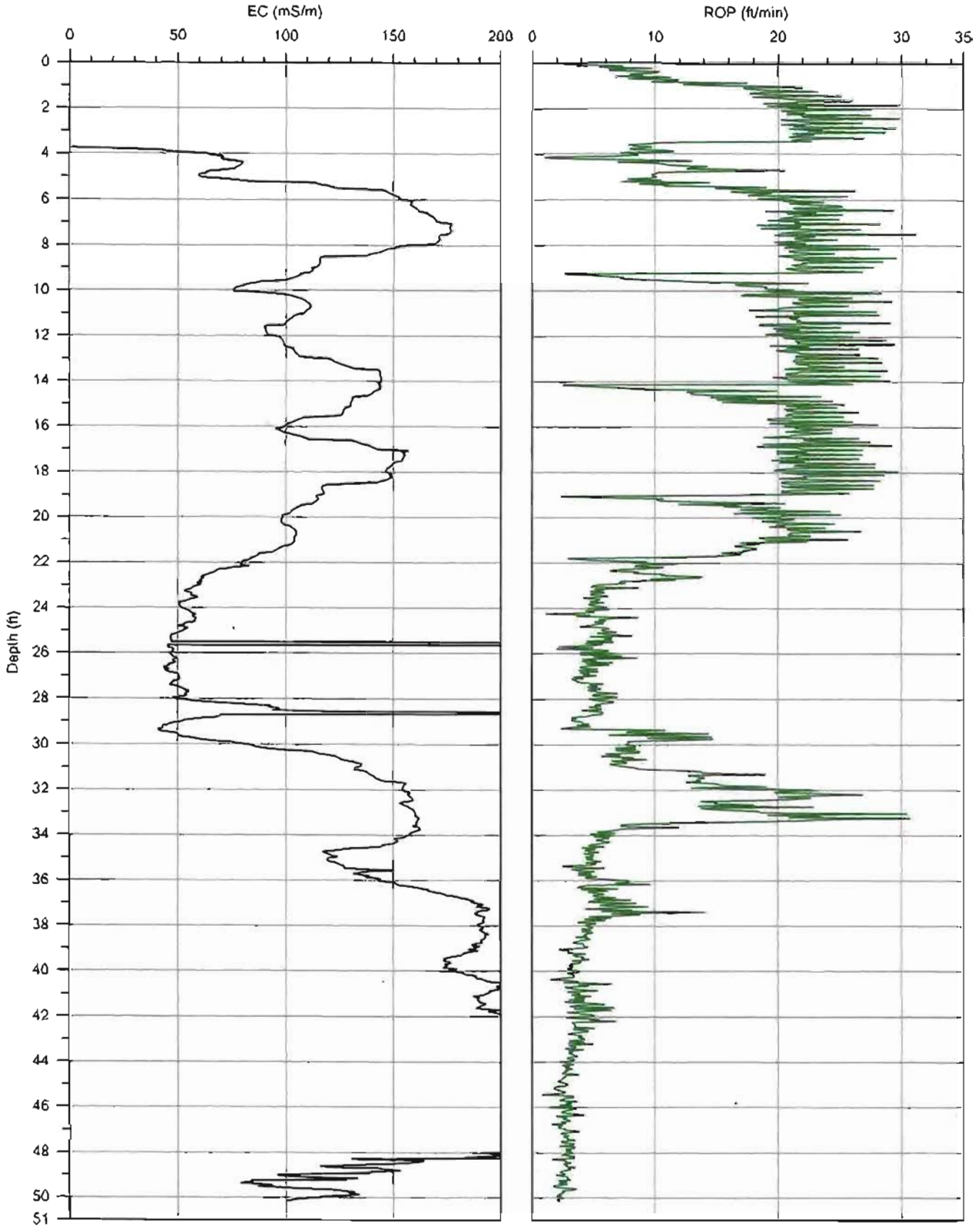
Company: WDC Exploration & Wells	Operator: Tatum	Date:
Project ID: ABI Foundry	Client: The Source Group	Location:



			File: SB-52-EC.DAT
Company: WDC Exploration & Wells		Operator: Tatum	Date:
Project ID: ABI Foundry		Client: The Source Group	Location:

2011269767 09/22/2011 11:13 AM
OFFICIAL RECORDS OF ALAMEDA COUNTY
PATRICK O'CONNELL
RECORDING FEE: 57.00

15 PGS

Recording Requested By:

McWane, Inc.
c/o Mike Olvera, AB&I Foundry
7825 San Leandro Street
Oakland, California 94621-2598

15

When Recorded, Mail To:
Ariu Levi, Director
Alameda County Environmental Health Services
1131 Harbor Bay Parkway
Alameda, California 94502

COVENANT AND ENVIRONMENTAL RESTRICTION ON PROPERTY

AB&I Foundry
7825 San Leandro Street
Oakland, California

This Covenant and Environmental Restriction on Property (this "Covenant") is made as of the 21st day of September, 2011__ by McWane, Inc. ("Covenantor") who is the Owner of record of that certain property situated at 7825 San Leandro Street , in the City of _ Oakland _____, County of Alameda _____, State of California, which is more particularly described in Exhibit A attached hereto and incorporated herein by this reference (such portion hereinafter referred to as the "Burdened Property"), for the benefit of the Alameda County Environmental Health Services (the "County"), with reference to the following facts:

A. The Burdened Property and groundwater underlying the property contains hazardous materials.

B. Contamination of the Burdened Property. Soil at the Burdened Property was contaminated by previous industrial operations, including but not limited to the manufacture of cast pipe and fittings and warehousing operations and by releases from six underground fuel storage tanks formerly present at the Burdened Property. These operations resulted in contamination of soil and groundwater with organic chemicals including petroleum hydrocarbons, primarily benzene, toluene, ethylbenzene, and xylene; and chlorinated solvents, primarily 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. These constituents constitute hazardous materials as that term is defined in Health & Safety Code Section 25260. To treat and control migration of contaminated soil and groundwater, several remedial actions were conducted at the Burdened Property including excavation and off-site disposal of contaminated

soil in the immediate vicinity of the UST areas and implementation of an enhanced biodegradation injection program.

C. Exposure Pathways. The contaminants addressed in this Covenant are present in soil and groundwater on the Burdened Property. Without the mitigation measures which have been performed on the Burdened Property, exposure to these contaminants could take place via exposure during future soil excavation resulting in dermal contact, inhalation, or ingestion by humans.. The risk of public exposure to the contaminants has been substantially lessened by the remediation and controls described herein.

D. Adjacent Land Uses and Population Potentially Affected. The Burdened Property is used for the manufacture of cast pipe and fittings and warehousing operations and is adjacent to industrial and commercial land uses and is adjacent to industrial and commercial land uses land uses.

E. Full and voluntary disclosure to the County of the presence of hazardous materials on the Burdened Property has been made and extensive sampling of the Burdened Property has been conducted.

F. Covenantor desires and intends that in order to benefit the County, 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 County 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 County.

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 County 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 and Agreement 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 County 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 County. "County" shall mean the Alameda County Environmental Health Services and shall include its successor agencies, if any.

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

2.3 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.

2.4 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.

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;

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

c. No hospitals 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. 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 surface improvements thereon;

g. All uses and development of the Burdened Property shall be consistent with any applicable County Cleanup Order or Risk Management Plan, each of which is hereby incorporated by reference including future amendments thereto. 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 Burdened Property pursuant to the requirements of the County, unless otherwise expressly permitted in writing by the County.

h. With the exception of the use of the one existing onsite water supply well for industrial water supply, no Owners or Occupants of the 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 County.

i. The Owner shall notify the County 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 Burdened Property pursuant to the requirements of the County, 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 County 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 County, and/or any persons acting pursuant to County cleanup 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.

l. No Owner or Occupant of the Burdened Property shall use the Burdened Property to grow fruits or vegetables for consumption.

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 County, 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 County 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 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 County 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 County 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"
McWane, Inc.
c/o Mike Olvera
AB&I Foundry
7825 San Leandro Street
Oakland, California 94621-2598

If To: "County"
Alameda County Environmental Health Services
Attention: Director
1131 Harbor Bay Parkway
Alameda, California 94502

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 Director of Environmental Health Services. This instrument shall be recorded by the Covenantor in the County of _____ 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: McWane Incorporated
By: [signature]
Title: VP Gen McWane Corporation
Date: 9-21-11

KURT WINTER 6

Agency: Alameda County
Environmental Health Services

By: _____

Title: Director

Date: JULY 21, 2011

ARIV LEVI

STATE OF CALIFORNIA)
)
COUNTY OF ALAMEDA)

On 09-21-, 2011 before me, the undersigned a Notary Public in and for said state, personally appeared [Covenantor], personally known to me or proved to me on the basis of satisfactory evidence to be the person who executed the within instrument.

WITNESS my hand and official seal.

Notary Public in and for said
County and State

SUNIL JASWAL
Commission # 1883191
Notary Public - California
Alameda County
My Comm. Expires Apr 2, 2014

State of California, County of ALAMEDA
On 09-21-2011 before me, SUNIL JASWAL,
Notary Public, personally appeared KURT WINTER,
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.

STATE OF CALIFORNIA)
)
COUNTY OF ALAMEDA)

On 09-21-, 2011 before me, the undersigned a Notary Public in and for said state, personally appeared [DIRECTOR], personally known to me or proved to me on the basis of satisfactory evidence to be the person who executed the within instrument.

WITNESS my hand and official seal.

Notary Public in and for said
County and State

SUNIL JASWAL
Commission # 1883191
Notary Public - California
Alameda County
My Comm. Expires Apr 2, 2014

State of California, County of ALAMEDA
On 09-21-2011 before me, SUNIL JASWAL,
Notary Public, personally appeared ARIU LEVI,
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.

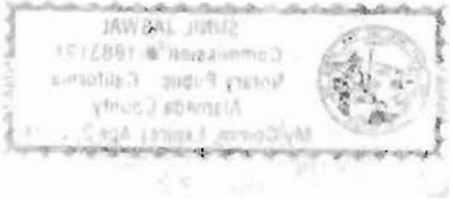


EXHIBIT A

LEGAL DESCRIPTION OF PROPERTY

Parcel 2:

COMMENCING AT THE INTERSECTION OF THE SOUTHEASTERN LINE OF 77TH AVENUE WITH THE SOUTHWESTERN LINE OF SAN LEANDRO STREET, AS SAID SOUTHWESTERN LINE IS DESCRIBED IN THE DEED FROM H. SORENSEN TO SAN FRANCISCO BAY AREA TRANSIT DISTRICT, RECORDED DECEMBER 9, 1966, REEL 1885, IMAGE 513 OF OFFICIAL RECORDS OF ALAMEDA COUNTY, INSTRUMENT NO. AY/137604; THENCE ALONG SAID SOUTHWESTERN LINE OF SAN LEANDRO STREET, SOUTH 44° 24' 56" EAST, 199.26 FEET; THENCE ALONG THE ARC OF A TANGENT CURVE TO THE RIGHT HAVING A RADIUS OF 5953.01 FEET, THROUGH A CENTRAL ANGLE OF 0° 27' 26", AN ARC DISTANCE OF 47.52 FEET TO THE ACTUAL POINT OF BEGINNING OF THIS DESCRIPTION; THENCE FROM SAID POINT, SOUTH 52° 17' 11" WEST, 510.14 FEET TO THE NORTHEASTERN LINE OF THE LANDS OF CENTRAL PACIFIC RAILWAY COMPANY; THENCE ALONG SAID NORTHEASTERN LINE, SOUTH 41° 16' 08" EAST, 103.97 FEET TO THE NORTHWESTERN LINE OF THE PARCEL OF LAND DESCRIBED IN THE DEED TO AMERICAN BRASS AND IRON FOUNDRY; THENCE ALONG SAID NORTHWESTERN LINE, NORTH 52° 03' 12" EAST, 513.94 FEET TO A POINT ON THE SOUTHWESTERN LINE OF SAN LEANDRO STREET, FROM SAID POINT THE CENTER OF A TANGENT CURVE TO THE LEFT, HAVING A RADIUS OF 5953.01 FEET BEARS SOUTH 47° 01' 31" WEST; THENCE ALONG SAID CURVE, THROUGH A CENTRAL ANGLE OF 0° 59' 01", AN ARC DISTANCE OF 102.20 FEET BACK TO THE POINT OF BEGINNING.

EXCEPTING THEREFROM, ALL TANGIBLE IMPROVEMENTS EXISTING ON JUNE 15, 2006, INCLUDING, WITHOUT RESERVATION, ALL BUILDINGS, FOUNDATIONS, FOOTINGS, STRUCTURAL ATTACHMENTS, PAVING AND FLOORING, AND OTHER PHYSICAL ACCESSIONS OF EVERY KIND AND NATURE, THAT ARE LOCATED ON, UNDER OR ABOVE THE GROUND SURFACE OF THE REAL PROPERTY DESCRIBED AS PARCELS 1, 2, 3 AND 4 OF THE DEEDS RECORDED JUNE 29, 2006, INSTRUMENT NO. 2006249865 AND OCTOBER 30, 2006, INSTRUMENT NO. 2006404171, OFFICIAL RECORDS, AS RESERVED BY DEED FROM AB&I, A CALIFORNIA CORPORATION, RECORDED JUNE 29, 2006, AS INSTRUMENT NO. 2006249865, OFFICIAL RECORDS, AND CORRECTED BY "CORRECTION GRANT DEED" RECORDED OCTOBER 30, 2006, AS INSTRUMENT NO. 2006404171, OFFICIAL RECORDS.

ASSESSOR'S PARCEL NO. 041-4209-001-01

Parcel 3:

BEGINNING AT A POINT ON THE SOUTHWESTERN LINE OF SAN LEANDRO STREET, AS SAID STREET EXISTED PRIOR TO THE WIDENING THEREOF TO 80 FEET, DISTANT THEREON SOUTH 44° 12' EAST, 392.13 FEET FROM THE SOUTHEASTERN LINE OF 77TH AVENUE, AS SAID AVENUE EXISTED PRIOR TO JULY 25, 1945; THENCE ALONG SAID LINE OF SAN LEANDRO STREET, SOUTH 44° 12' EAST, 156.85 FEET; THENCE SOUTH 50° 15' WEST, 388.65 FEET TO THE NORTHEASTERN LINE OF THE PARCEL OF LAND DESCRIBED IN THE DEED FROM E. G. NEILSON AND LUCY L. NEILSON TO ARNOLD A. BOSCACCI, ET AL, DATED APRIL 24, 1942, RECORDED MAY 18, 1942, BOOK 4220 OR, PAGE 222, ALAMEDA COUNTY RECORDS; THENCE ALONG THE LAST NAMED LINE, SOUTH 43° 06' EAST, 80 FEET TO THE SOUTHEASTERN LINE OF SAID LAND DESCRIBED IN SAID DEED; THENCE ALONG THE LAST NAMED LINE, SOUTH 50° 15' WEST, 170 FEET TO THE NORTHEASTERN LINE OF THE PARCEL OF LAND FIRSTLY DESCRIBED IN THE DEED BY W. K. WASHBURN AND M. B. WASHBURN TO CENTRAL PACIFIC RAILWAY COMPANY AND WESTERN PACIFIC RAILROAD COMPANY, DATED APRIL 8, 1929, RECORDED IN BOOK 2092 OR, PAGE 383, ALAMEDA COUNTY RECORDS; THENCE ALONG THE LAST NAMED LINE, NORTH 43° 06' WEST, 236.65 FEET TO A LINE DRAWN SOUTH 50° 15' WEST FROM THE POINT OF BEGINNING; THENCE NORTH 50° 15' EAST, 555.58 FEET TO THE POINT OF BEGINNING.

EXCEPTING THEREFROM, THE NORTHEASTERN 30 FEET THEREOF, TAKEN FOR THE WIDENING OF SAN LEANDRO STREET, AS SAID STREET NOW EXISTS 80 FEET WIDE, SINCE JUNE 26, 1947.

ALSO EXCEPTING THEREFROM, THE FOLLOWING DESCRIBED REAL PROPERTY:

COMMENCING AT THE INTERSECTION OF THE SOUTHEASTERN LINE OF 77TH AVENUE WITH THE SOUTHWESTERN LINE OF SAN LEANDRO STREET, AS SAID AVENUE AND SAID STREET NOW EXIST; THENCE ALONG THE SOUTHWESTERN LINE OF SAN LEANDRO STREET, SOUTH 42° 23' 40" EAST, 347.97 FEET TO THE TRUE POINT OF BEGINNING, SAID POINT LYING ON THE SOUTHEASTERN LINE OF A PARCEL OF LAND DESCRIBED IN THE DEED BY BANK OF AMERICA NATIONAL TRUST AND SAVINGS ASSOCIATION TO H. A. SORENSEN, DATED FEBRUARY 20, 1939, RECORDED FEBRUARY 25, 1939, BOOK 3740 OR, PAGE 240, ALAMEDA COUNTY RECORDS; THENCE CONTINUING ALONG THE SOUTHWESTERN LINE OF SAN LEANDRO STREET, SOUTH 42° 23' 40" EAST, 156.84 FEET; THENCE LEAVING SAID SOUTHWESTERN LINE OF SAN LEANDRO STREET, SOUTH 52° 03' 20" WEST, 11.12 FEET; THENCE NORTH 42° 22' 28" WEST, 94.48 FEET; THENCE ALONG A TANGENT CURVE TO THE LEFT HAVING A RADIUS OF 5,953.01 FEET, THROUGH A CENTRAL ANGLE OF 0° 36' 01", AN ARC DISTANCE OF 62.37 FEET TO THE AFOREMENTIONED SOUTHEASTERN LINE (3740 OR 40); THENCE ALONG SAID SOUTHEASTERN LINE, NORTH 52° 03' 20" EAST, 11.39 FEET TO THE TRUE POINT OF BEGINNING.

ALSO EXCEPTING THEREFROM, ALL TANGIBLE IMPROVEMENTS EXISTING ON JUNE 15, 2006, INCLUDING, WITHOUT RESERVATION, ALL BUILDINGS, FOUNDATIONS, FOOTINGS, STRUCTURAL ATTACHMENTS, PAVING AND FLOORING, AND OTHER PHYSICAL ACCESSIONS OF EVERY KIND AND NATURE, THAT ARE LOCATED ON, UNDER OR ABOVE THE GROUND SURFACE OF THE REAL PROPERTY DESCRIBED AS PARCELS 1, 2, 3 AND 4 OF THE DEEDS RECORDED JUNE 29, 2006, INSTRUMENT NO. 2006249865 AND OCTOBER 30, 2006 AS INSTRUMENT NO. 2006404171, OFFICIAL RECORDS, AS RESERVED BY DEED FROM AB&I, A CALIFORNIA CORPORATION, RECORDED JUNE 29, 2006, AS INSTRUMENT NO. 2006249865, OFFICIAL RECORDS, AND CORRECTED BY "CORRECTION GRANT DEED" RECORDED OCTOBER 30, 2006, AS INSTRUMENT NO, 2006404171, OFFICIAL RECORDS.

ASSESSOR'S PARCEL NO. 041-4209-003-02

Parcel 4:

BEGINNING AT A POINT ON THE SOUTHWESTERN LINE OF SAN LEANDRO STREET, DISTANT THEREON SOUTH 44° 12' EAST, 548.98 FEET FROM THE SOUTHEASTERN LINE OF 77TH AVENUE; THENCE ALONG SAID LINE OF SAN LEANDRO STREET, SOUTH 44° 12' 3AST, 153.13 FEET TO THE NORTHWESTERN LINE OF 81ST AVENUE, AS SAID AVENUE IS DESCRIBED IN THE DEED FROM R. D. AYER AND OLIVO TO THE CITY OF OAKLAND, DATED JANUARY 16, 1914 AND RECORDED FEBRUARY 3, 1914, IN BOOK 2231 OF DEEDS, PAGE 60, IN THE OFFICE OF THE COUNTY RECORDER OF ALAMEDA COUNTY, STATE OF CALIFORNIA; THENCE ALONG THE LAST NAMED LINE, SOUTH 50° 15' WEST, 561.59 FEET TO THE NORTHEASTERN LINE OF LANI CONVEYED BY W. K. WASHBURN AND M. E. WASHBURN TO CENTRAL PACIFIC RAILWAY COMPANY AND THE WESTERN PACIFIC RAILROAD COMPANY, BY DEED DATED APRIL 8, 1929 AND RECORDED APRIL 20, 1929, IN BOOK 2092 OF OFFICIAL RECORDS OF ALAMEDA COUNTY, AT PAGE 383; THENCE ALONG THE LAST NAMED LINE, NORTH 43° 06' WEST, 152.93 FEET TO A LINE DRAWN SOUTH 50° 15' WEST FROM THE POINT OF BEGINNING; THENCE NORTH 50° 15' EAST, 558.65 FEET TO THE POINT OF BEGINNING.

EXCEPTING THEREFROM, THE FOLLOWING:

BEGINNING AT THE INTERSECTION OF THE SOUTHWESTERN LINE OF SAN LEANDRO STREET WITH THE NORTHWESTERN LINE OF 81ST AVENUE, AS SAID STREET AND AVENUE NOW EXIST; THENCE ALONG SAID SOUTHWESTERN LINE OF SAN LEANDRO STREET, NORTH 42° 23' 40" WEST, 152.77 FEET TO THE SOUTHEASTERN LINE OF A PARCEL OF LAND DESCRIBED IN THE DEED BY BANK OF AMERICA NATIONAL TRUST AND SAVINGS ASSOCIATION TO ARNOLD A. BOSCACCI AND RITA M. BOSCACCI, DATED NOVEMBER 25, 1940, RCORDED IN BOOK 4011 OF OFFICIAL RECORDS OF ALAMEDA COUNTY, PAGE 112; THENCE LEAVING THE SOUTHWEST LINE OF SAN LEANDRO STREET AND RUNNING ALONG THE SOUTHEASTERN LINE OF SAID PARCEL (4011 OR 112), SOUTH 52° 03' 20" WEST, 11.12 FEET; THENCE LEAVING SAID SOUTHEASTERN LINE, SOUTH 42° 22' 28" EAST, 152.77 FEET TO THE NORTHWESTERN LINE OF 81ST STREET; THENCE ALONG SAID NORTHWESTERN LINE, NORTH 52° 03' 20" EAST, 11.17 FEET TO THE POINT OF BEGINNING.

EXCEPTING THEREFROM, ALL THAT REAL PROPERTY DESCRIBED IN THE DEED FROM E. G. NEILSON, ET UX, TO ARNOLD A. BOSCACCI, ET UX, RECORDED MAY 18, 1942, IN BOOK 4220, PAGE 222, OFFICIAL RECORDS OF ALAMEDA COUNTY, CALIFORNIA.

ALSO EXCEPTING THEREFROM, ALL TANGIBLE IMPROVEMENTS EXISTING ON JUNE 15, 2006, INCLUDING, WITHOUT RESERVATION, ALL BUILDINGS, FOUNDATIONS, FOOTINGS, STRUCTURAL ATTACHMENTS, PAVING AND FLOORING, AND OTHER PHYSICAL ACCESSIONS OF EVERY KIND AND NATURE, THAT ARE LOCATED ON, UNDER OR ABOVE THE GROUND SURFACE OF THE REAL PROPERTY DESCRIBED AS PARCELS 1, 2, 3 AND 4 OF THE DEEDS RECORDED JUNE 29, 2006, INSTRUMENT NO. 2006249865 AND OCTOBER 30, 2006, AS INSTRUMENT NO, 2006404171, OFFICIAL RECORDS, AS RESERVED BY DEED FROM AB&I, A CALIFORNIA CORPORATION, RECORDED JUNE 29, 2006, AS INSTRUMENT NO. 2006249865, OFFICIAL RECORDS, AND CORRECTED BY "CORRECTION GRANT DEED" RECORDED OCTOBER 30, 2006, AS INSTRUMENT NO, 2006404171, OFFICIAL RECORDS.

ASSESSOR'S PARCEL NO. 041-4209-008-01 (PORTION)

Parcel 5:

A PORTION OF THAT CERTAIN PIECE OR PARCEL OF LAND HERETOFORE CONVEYED BY EMMA F. MATHEWS TO R. B. AYER, BY DEED DATWED MAY 23, 1912 AND RECORDED IN BOOK 2073 OF DEEDS, AT PAGE 155, RECORDS OF ALAMEDA COUNTY, CALIFORNIA, AND BEING A STRIP OF LAND, 60 FEET IN WIDTH, FURTHER DESCRIBED AS FOLLOWS:

BEGINNING AT THE POINT OF INTERSECTION OF THE SOUTHWESTERN LINE OF THE 80-FOOT RIGHT OF WAY OF THE WESTERN PACIFIC RILWAY (NOW SOUTHERN PACIFIC RAILWAY) WITH A LINE DRAWN PARALLEL TO AND DISTANT 700.00 FEET SOUTHEASTERLY (MEASURED AT RIGHT ANGLES) FROM THE SOUTHEASTERN LINE OF FITCHBURG, AS SAID FITCHBURG IS DELINEATED AND SO DESIGNATED ON THAT CERTAIN MAP ENTITLED, "MAP OF FITCHBURG", ETC., AND FILED IN THE OFFICE OF THE RECORDER OF ALAMEDA COUNTY, CALIFORNIA, JANUARY 25, 1870; AND RUNNING THENCE ALONG SAID LINE DRAWN PARALLEL TO SAID SOUTHEASTERN LINE OF FITCHBURG, SOUTH 50° 15' WEST, 631.09 FEET TO THE POINT OF INTERSECTION THEREOF WITH THE NORTHEASTERN LINE OF THE 100-FOOT RIGHT OF WAY OF THE CENTRAL PACIFIC RAILWAY; THENCE LEAVING SAID LINE SO DRAWN, PARALLEL TO THE SOUTHEASTERN LINE OF FITCHBURG AND ALONG SAID NORTHEASTERN RIGHT OF WAY LINE OF THE CENTRAL PACIFIC RAILWAY, SOUTH 43° 07' EAST, 60.11 FEET TO THE POINT OF INTERSECTION THEREOF WITH A LINE DRAWN PARALLEL TO AND DISTANT 760.00 FEET SOUTHEASTERLY (MEASURED AT RIGHT ANGLES) FROM SAID SOUTHEASTERN LINE OF FITCHBURG; THENCE LEAVING SAID RIGHT OF WAY LINE OF THE CENTRAL PACIFIC RAILWAY AND ALONG LAST SAID LINE DRAWN PARALLEL TO THE SOUTHEASTERN LINE OF FITCHBURG, NORTH 50° 15' EAST, 632.25 FEET TO THE POINT OF INTERSECTION THEREOF WITH THE SAID SOUTHWESTERN LINE OF THE 80 FOOT RIGHT OF WAY OF THE WESTERN PACIFIC RAILWAY; THENCE LEAVING SAID LAST PARALLEL LINE AND ALONG SAID SOUTHEASTERN RIGHT OF WAY LINE OF THE WESTERN PACIFIC RAILWAY, NORTH 44° 13' WEST, 60.13 FEET TO THE POINT OF BEGINNING.

EXCEPTING THEREFROM: THIS PORTION OF THE HEREIN DESCRIBED PARCEL LYING NORTHEASTERLY OF THE SOUTHWESTERN LINE OF SAN LEANDRO STREET, AS SAN LEANDRO STREET (FORMERLY RUSSETT STREET) IS DESCRIBED AND DEDICATED IN CERTAIN FINAL JUDGMENT IN CONDEMNATION, BEING ALSO ACTION NUMBER 82662 IN THE SUPERIOR COURT OF THE STATE OF CALIFORNIA, IN AND FOR THE COUNTY OF ALAMEDA, FILED UNDER RECORDER'S SERIES NUMBER Y 76189, OFFICIAL RECORDS, ALAMEDA COUNTY, CALIFORNIA.

ALSO EXCEPTING THEREFROM, ALL TANGIBLE IMPROVEMENTS EXISTING ON JUNE 15, 2006, INCLUDING, WITHOUT RESERVATION, ALL BUILDINGS, FOUNDATIONS, FOOTINGS, STRUCTURAL ATTACHMENTS, PAVING AND FLOORING, AND OTHER PHYSICAL ACCESSIONS OF EVERY KIND AND NATURE, THAT ARE LOCATED ON, UNDER OR ABOVE THE GROUND SURFACE OF THE REAL PROPERTY DESCRIBED AS PARCELS 1, 2, 3 AND 4 OF THE DEEDS RECORDED JUNE 29, 2006, INSTRUMENT NO. 2006249865 AND OCTOBER 30, 2006, AS INSTRUMENT NO. 2006404171, OFFICIAL RECORDS, AS RESERVED BY DEED FROM AB&I, A CALIFORNIA CORPORATION, RECORDED JUNE 29, 2006, AS INSTRUMENT NO. 2006249865, OFFICIAL RECORDS, AND CORRECTED BY "CORRECTION GRANT DEED" RECORDED OCTOBER 30, 2006, AS INSTRUMENT NO, 2006404171, OFFICIAL RECORDS.

ASSESSOR'S PARCEL NO. 041-4209-008-01 (PORTION)

Parcel 6:

BEGINNING AT THE INTERSECTION OF THE SOUTHEASTERN LINE OF 77TH AVENUE WITH THE SOUTHWESTERN LINE OF SAN LEANDRO STREET, AS SAID AVENUE AND STREET NOW EXIST; THENCE ALONG SAID LINE OF SAN LEANDRO STREET, SOUTH 44° 12' EAST, 347.99 FEET TO THE SOUTHEASTERN LINE OF THE PARCEL OF LAND DESCRIBED IN THE DEED BY BANK OF AMERICA NATIONAL TRUST AND SAVINGS ASSOCIATION TO H. A. SORENSEN, DATED FEBRUARY 20, 1939, RECORDED FEBRUARY 25, 1939, IN BOOK 3740 OF OFFICIAL RECORDS OF ALAMEDA COUNTY, PAGE 240; THENCE ALONG THE LAST NAMED LINE, SOUTH 50° 15' WEST, 525.49 FEET TO THE NORTHEASTERN LINE OF THE PARCEL OF LAND FIRSTLY DESCRIBED IN THE DEED BY W. K. WASHBURN, ET UX, TO CENTRAL PACIFIC RAILWAY COMPANY, ET AL, DATED APRIL 8, 1929, RECORDED APRIL 20, 1929, BOOK 2092 OF OFFICIAL RECORDS OF ALAMEDA COUNTY, PAGE 383; THENCE ALONG THE LAST NAMED LINE, NORTHWESTERLY 347.40 FEET TO SAID SOUTHEASTERN LINE OF 77TH AVENUE; THENCE ALONG THE LAST NAMED LINE, NORTHEASTERLY ON A CURVE TO THE RIGHT WITH A RADIUS OF 353 FEET, A DISTANCE OF 10.18 FEET, AND TANGENT WITH THE LAST NAMED COURSE, NORTH 50° 15' EAST, 508.67 FEET TO THE POINT OF BEGINNING.

EXCEPTING THEREFROM, THAT PORTION CONVEYED TO SAN FRANCISCO BAY AREA RAPID TRANSIT DISTRICT, DATED OCTOBER 4, 1966, RECORDED DECEMBER 9, 1966, REEL 1885, IMAGE 513, OFFICIAL RECORDS, INSTRUMENT NO. AY/137604.

EXCEPTING THEREFROM, ALL THAT REAL PROPERTY IN THE CITY OF OAKLAND, ALAMEDA COUNTY, STATE OF CALIFORNIA, DESCRIBED AS FOLLOWS:

COMMENCING AT THE INTERSECTION OF THE SOUTHEASTERN LINE OF 77TH AVENUE WITH THE SOUTHWESTERN LINE OF SAN LEANDRO STREET, AS SAID SOUTHWESTERN LINE IS DESCRIBED IN THE DEED FROM H. SORENSEN TO SAN FRANCISCO BAY AREA RAPID TRANSIT DISTRICT, RECORDED DECEMBER 9, 1966, REEL 1885, IMAGE 513, OF OFFICIAL RECORDS OF ALAMEDA COUNTY, INSTRUMENT NO. AY/137604; THENCE ALONG SAID SOUTHWESTERN LINE OF SAN LEANDRO STREET, SOUTH 44° 24' 56" EAST, 199.26 FEET; THENCE ALONG THE ARC OF A TANGENT CURVE TO THE RIGHT, HAVING A RADIUS OF 5953.01 FEET, THROUGH A CENTRAL ANGLE OF 0° 27' 26", AN ARC DISTANCE OF 47.52 FEET TO THE ACTUAL POINT OF BEGINNING OF THIS DESCRIPTION; THENCE FROM SAID POINT, SOUTH 52° 17' 11" WEST, 510.14 FEET TO THE NORTHEASTERN LINE OF THE LAND OF CENTRAL PACIFIC RAILWAY COMPANY; THENCE ALONG SAID NORTHEASTERN LINE, SOUTH 41° 16' 08" EAST, 103.97 FEET TO THE NORTHWESTERN LINE OF THE PARCEL OF LAND DESCRIBED IN THE DEED TO AMERICAN BRASS AND IRON FOUNDRY; THENCE ALONG SAID NORTHWESTERN LINE, NORTH 52° 03' 12" EAST, 513.94 FEET TO A POINT ON THE SOUTHWESTERN LINE OF SAN LEANDRO STREET, FROM SAID POINT THE CENTER OF A TANGENT CURVE TO THE LEFT, HAVING A RADIUS OF 5953.01 FEET, BEARS SOUTH 47° 01' 31" WEST; THENCE ALONG SAID CURVE, THROUGH A CENTRAL ANGLE OF 0° 59' 01", AN ARC DISTANCE OF 102.20 FEET BACK TO THE POINT OF BEGINNING.

ALSO EXCEPTING THEREFROM, ALL TANGIBLE IMPROVEMENTS EXISTING ON JUNE 15, 2006, INCLUDING, WITHOUT RESERVATION, ALL BUILDINGS, FOUNDATIONS, FOOTINGS, STRUCTURAL ATTACHMENTS, PAVING AND FLOORING, AND OTHER PHYSICAL ACCESSIONS OF EVERY KIND AND NATURE, THAT ARE LOCATED ON, UNDER OR ABOVE THE GROUND SURFACE OF THE REAL PROPERTY, AS RESERVED IN THE DEED FROM AB&I, A CALIFORNIA CORPORATION, RECORDED JUNE 29, 2006, AS INSTRUMENT NO. 2006249864, OFFICIAL RECORDS.

(parcel 6 continued on next page)

ALSO EXCEPTING THEREFROM, ALL TANGIBLE IMPROVEMENTS EXISTING ON OCTOBER 26, 2006, INCLUDING, WITHOUT RESERVATION, ALL BUILDINGS, FOUNDATIONS, FOOTINGS, STRUCTURAL ATTACHMENTS, PAVING AND FLOORING, AND OTHER PHYSICAL ACCESSIONS OF EVERY KIND AND NATURE, THAT ARE LOCATED ON, UNDER OR ABOVE THE GROUND SURFACE OF THE REAL PROPERTY, AS GRANTED IN THE DEED FROM BOSCACCI GROUP, LLC, A CALIFORNIA LIMITED LIABILITY COMPANY TO AB&I, A CALIFORNIA CORPORATION, RECORDED OCTOBER 30, 2006, AS INSTRUMENT NO. 2006404174, OFFICIAL RECORDS.

ASSESSOR'S PARCEL NO. 041-4209-001-02

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

RECEIVED

10:36 am, Jul 21, 2011
Alameda County
Environmental Health

July 19, 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 Revised Site Management Plan, AB&I Foundry, 7825 San Leandro Street, Oakland California 94621

Dear Mr. Wickham:

AB&I respectfully submits the attached Revised 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: Revised Site Management Plan, AB&I Foundry, 7825 San Leandro Street, Oakland, California

ATTACHMENT 8

REVISED SITE MANAGEMENT PLAN

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

Prepared For:

Prepared By:

THE SOURCE GROUP, INC.
3451-C Vincent Road
Pleasant Hill, California 94523

July 19, 2011

Prepared By:

Kent R. Reynolds
Principal Geologist

Reviewed By:

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

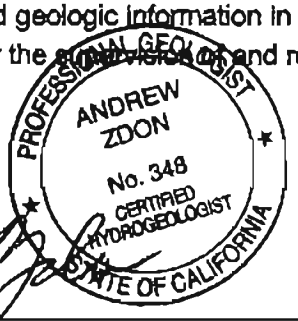
TABLE OF CONTENTS

LIST OF FIGURES

LIST OF TABLES

CERTIFICATION

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



Andrew Zdon, P.G., C.HG.
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 Revised 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, 2011a). 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 industrial 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 surface 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.

This Revised SMP replaces the Revised SMP dated June 15, 2011. The Revised SMP incorporates comments provided by ACEH in their letter dated June 8, 2011 (ACEH, 2011b) and subsequent verbal comments provided on July 12, 2011.

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 3 to 8-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 volatile organic compounds (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 industrial 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 though 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 in soil vapor to indoor or outside air. In addition, these types of chemicals can migrate to underlying groundwater through leaching. Dissolved chlorinated solvents and petroleum hydrocarbons can also migrate with groundwater flow.

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 On-Site Outdoor Commercial/Industrial Worker Receptor (current and future exposure scenario);
- Hypothetical On-Site Indoor Commercial/Industrial Worker Receptor (current and future exposure scenario), and;
- Hypothetical On-Site and Off-Site Outdoor Construction Worker Receptor (current and future exposure scenario).

The exposure pathways assumed to be complete and significant for the hypothetical On-Site outdoor commercial/industrial and On-Site and Off-Site construction worker receptors include:

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

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. No additional buildings or other subsurface structures are to be constructed without the approval of 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 all activities involving disturbance of the surface cap or subsurface excavation, those workers that may directly contact soil or groundwater 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 Minimizing Soil and Groundwater Contact by Construction Workers

There are potential health and safety risks associated with the petroleum hydrocarbons, VOCs, and metals detected in Site soils, as well as petroleum hydrocarbons and VOCs detected in groundwater. There is the potential for contact by construction workers with residual chemicals in soil at the Site. The routes of potential exposure to the petroleum hydrocarbons, VOCs, and metals in soil are: dermal (skin) contact with the soil; (2) inhalation of dusts; and (3) ingestion of the soil.

Groundwater occurs on-Site at a depth of 3 to 8 feet bgs. There is the potential for contact by construction workers with residual chemicals in groundwater at the Site. The routes of potential exposure to the petroleum hydrocarbons and VOCs in groundwater are: (1) dermal (skin) contact with groundwater; and (2) inhalation of emissions from exposed water. The greatest potential for human exposure to the petroleum hydrocarbons and VOCs in water will be during soil excavation operations and dewatering activities.

The abovementioned health risks to on-Site construction workers will be minimized by developing and implementing a site-specific health and safety plan. The Site Environmental Manager or representative overseeing removal actions will be responsible for establishing and maintaining proper health and safety procedures to minimize construction worker exposure to Site contaminants. At minimum, the site-specific health and safety plan will include: (1) health and safety training requirements for on-Site personnel; (2) personal hygiene and monitoring equipment to be used during construction to protect and verify the health and safety of the construction workers; (3) additional precautions to be undertaken to minimize direct contact with hazardous substances, including implementation of dust control measures; and (4) a description of the procedures to mitigate any potential health risk to bystanders during subsurface activities.

A Site health and safety officer (HSO) or designee will be on-Site during excavation activities to ensure that all health and safety measures are maintained. The HSO will have the authority to direct and, if necessary, stop all construction activities in order to ensure compliance with the site-specific health and safety plan.

4.7 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.

4.8 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).

4.9 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.

4.10 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.

4.11 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.

4.12 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; and
- 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.

SGI 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 2011a). 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.

Alameda County Department of Environmental Health (ACEH 2011b). Letter regarding, "Fuel Leak Case No. RO0000092, American Brass & Iron Foundry, 7825 San Leandro Street, Oakland, California" request for a revised Site Management Plan (SMP). June 8.

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.

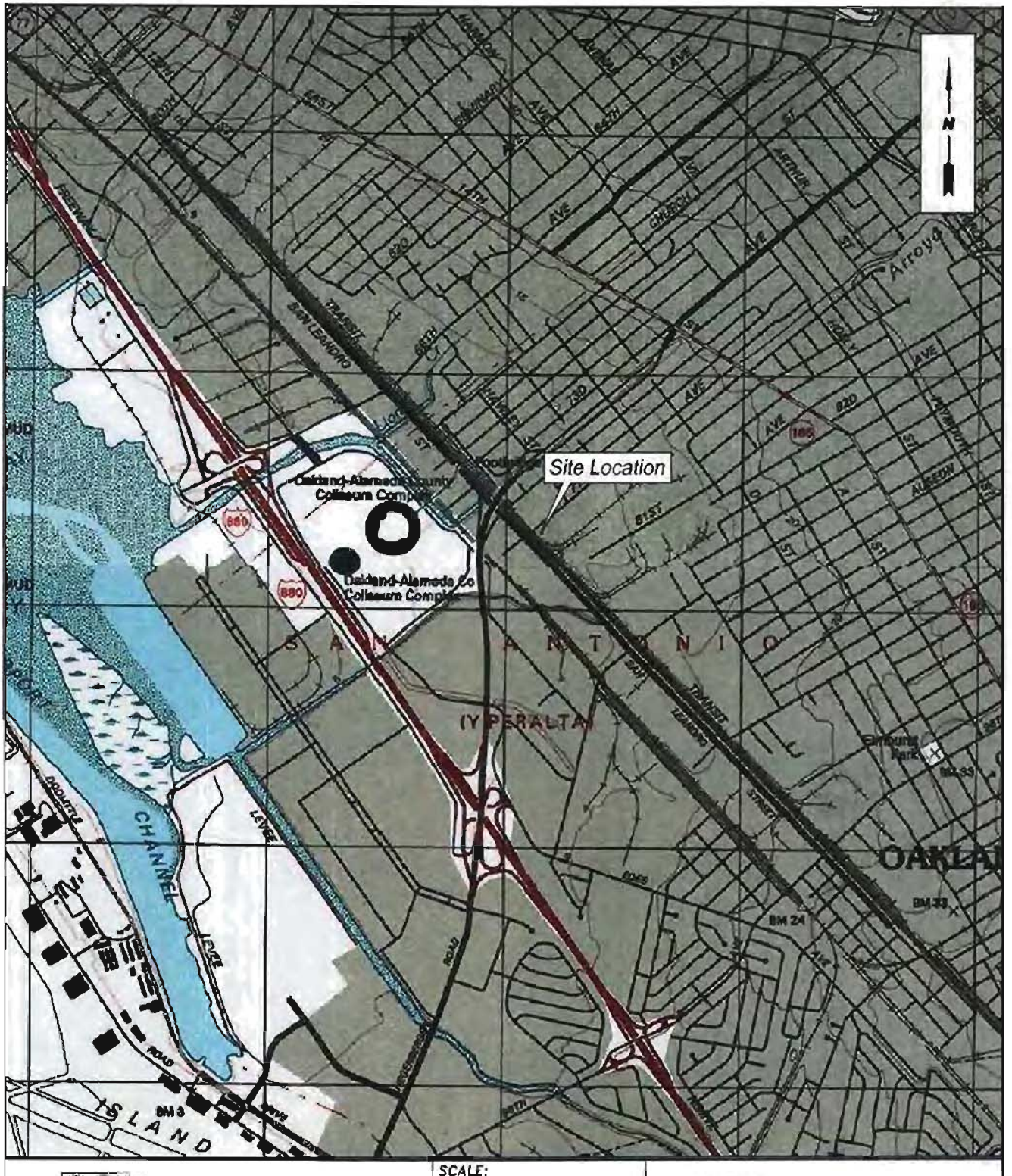
The Source Group, Inc. (SGI 2009c). "May 2009 Semi-Annual Monitoring and Enhanced Anaerobic Biodegradation Pilot Study", AB&I Foundry, 7825 San Leandro Street, Oakland, California. October 7.

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.



SGI environmental — THE SOURCE GROUP, INC.

3451-C VINCENT ROAD
PLEASANT HILL, CA 94523

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

SCALE: 0 FEET 2000 SCALE

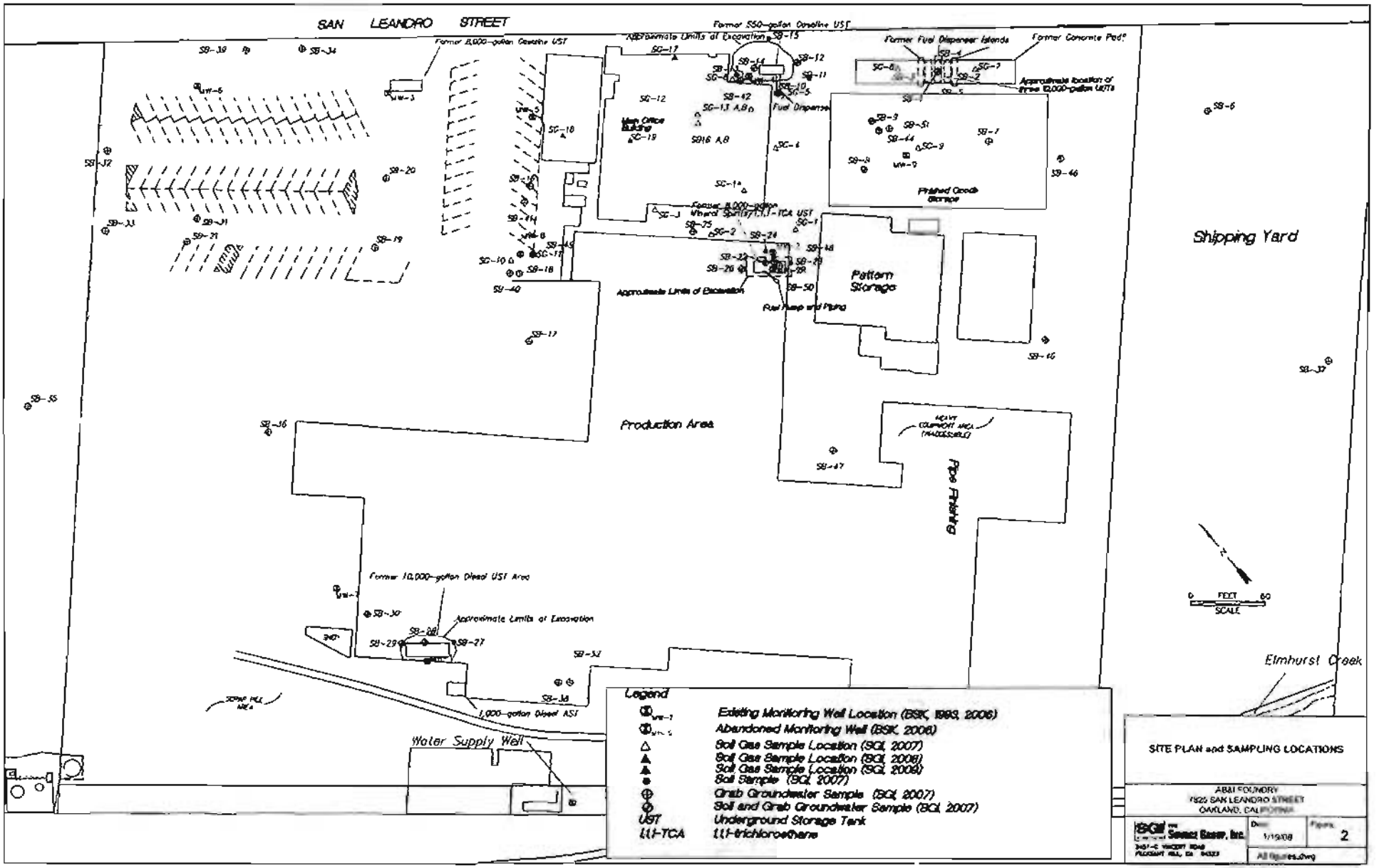
SITE LOCATION MAP

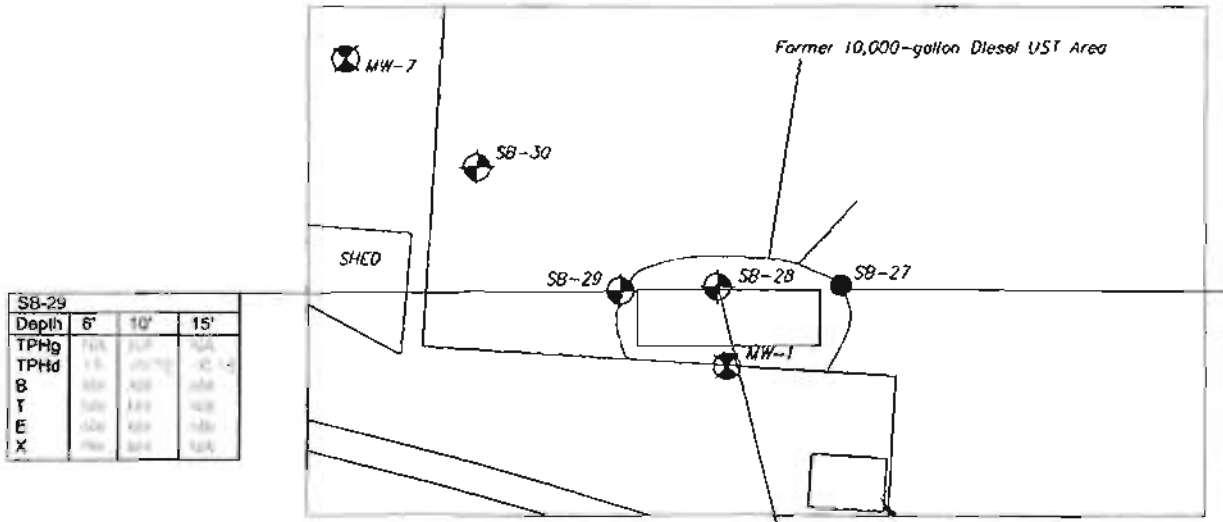
CLIENT: AB&I FOUNDRY

DATE: 6/27/07

LOCATION: 7825 San Leandro Street
Oakland, California

FIGURE: 1


SAN LEANDRO STREET
Former 550-gallon Gasoline UST
Former 8,000-gallon Gasoline UST
Approximate Limits of Excavation
Former Fuel Dispenser Islands
Former Concrete Pad
Approximate location of three 10,000-gallon USTs
Fuel Dispenser
Main Office Building
Former 8,000-gallon Waste Solvent (1,1,1-) TCA UST
Fuel Pump and Piping
Pattern Storage
Finished Goods Storage
Shipping Yard
Production Area
Pipe Rack
Former 10,000-gallon Diesel UST Area
Approximate Limits of Excavation
1,000-gallon Diesel AST
Water Supply Well
Elmhurst Creek
0 FEET 60
SCALE
Legend
Existing Monitoring Well Location (BSK, 1993, 2006)
Abandoned Monitoring Well (BSK, 2006)
Soil Gas Sample Location (SGI, 2007)
Soil Gas Sample Location (SGI, 2006)
Soil Gas Sample Location (SGI, 2006)
Soil Sample (SGI, 2007)
Grab Groundwater Sample (SGI, 2007)
Soil and Grab Groundwater Sample (SGI, 2007)
UST Underground Storage Tank
1,1,1-TCA 1,1,1-trichloroethane
SITE PLAN and SAMPLING LOCATIONS
ABAI FOUNDRY
1925 SAN LEANDRO STREET
OAKLAND, CALIFORNIA
Date 1/19/08
Figure 2



SB-29			
Depth	6'	10'	15'
TPHg			
TPHd			
B			
T			
E			
X			

SB-27				
Depth	3'	5'	10'	15'
TPHg				
TPHd				
B				
T				
E				
X				

SB-28				
Depth	6'	10'	15'	20'
TPHg				
TPHd				
B				
T				
E				
X				

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		
TPHd		
B		
T		
E		
X		

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 (BCI, 2007)

Soil and Grab Groundwater Sample (BCI, 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.

0 FEET 20
SCALE

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

ABSI FOUNDRY
7825 SAN LEANDRO STREET
OAKLAND, CALIFORNIA

BCI Engineers & Scientists, Inc.

Date: 1/2008

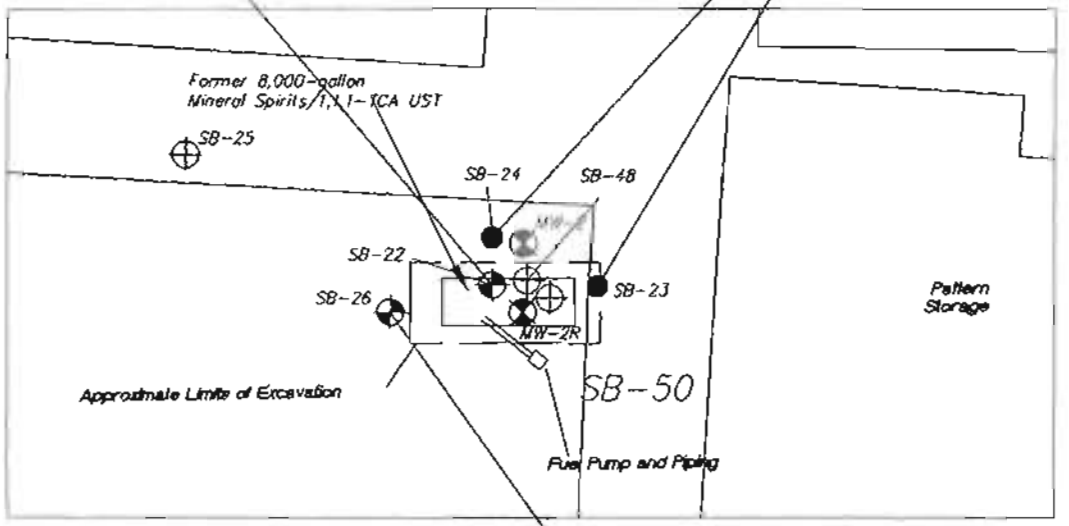
Figure: 3

All figures.dwg

SB-22				
Depth	3'	5'	10'	15'
TPHg				
TPHd				
B				
T				
E				
X				

SB-24				
Depth	3'	5'	10'	20'
TPHg				
TPHd	170			
B				
T				
E				
X				

SB-23				
Depth	3'	5'	10'	15'
TPHg				
TPHd		190		
B				
T				
E				
X				



SB-26			
Depth	4'	10'	15'
TPHg			
TPHd	5800		
B			
T			
E			
X			

Legend

Boring ID — SB-2B

Depth in feet below ground surface — Depth | 4' | 10'

Total Petroleum Hydrocarbons as Gasoline — TPHg

Total Petroleum Hydrocarbons as Diesel — TPHd

Benzene — B

Toluene — T

Ethylbenzene — E

Xylene — X

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, BSI, 2006)

Abandoned Monitoring Well (BSK, 2006)

Soil Sample (BSI, 2007)

Grab Groundwater Sample (BSI, 2007)

Soil and Grab Groundwater Sample (BSI, 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.

N

0 FEET 20

SCALE

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

ARM FOUNDRY

7825 SAN LEANDRO STREET

OAKLAND, CALIFORNIA

SOMA Environmental Engineering, Inc.

Date: 1/2008

Figure: 4

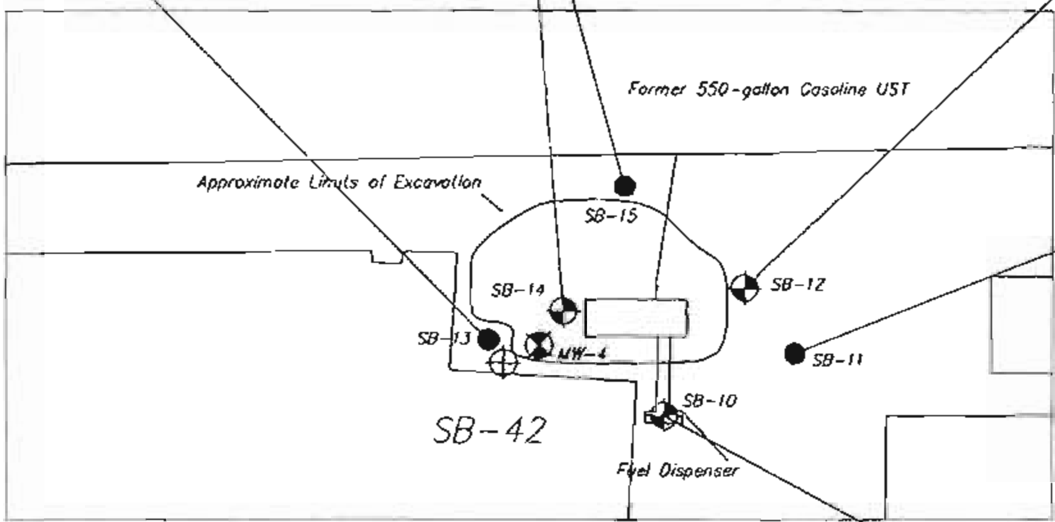
All figures.dwg

SB-13				
Depth	5'	10'	15'	25'
TPHg	[illegible]	[illegible]	[illegible]	[illegible]
TPHd	NA	NA	NA	NA
B	[illegible]	[illegible]	[illegible]	[illegible]
T	[illegible]	[illegible]	[illegible]	[illegible]
E	[illegible]	[illegible]	[illegible]	[illegible]
X	[illegible]	[illegible]	[illegible]	[illegible]

SB-14			
Depth	3'	10'	15'
TPHg	[illegible]	[illegible]	[illegible]
TPHd	NA	NA	NA
B	[illegible]	[illegible]	[illegible]
T	[illegible]	[illegible]	[illegible]
E	[illegible]	[illegible]	[illegible]
X	[illegible]	[illegible]	[illegible]

SB-15				
Depth	5'	10'	15'	19'
TPHg	[illegible]	[illegible]	1100	[illegible]
TPHd	NA	NA	NA	NA
B	[illegible]	[illegible]	[illegible]	[illegible]
T	[illegible]	[illegible]	[illegible]	[illegible]
E	[illegible]	[illegible]	[illegible]	[illegible]
X	[illegible]	[illegible]	[illegible]	[illegible]

SB-12				
Depth	5'	10'	15'	25'
TPHg	[illegible]	[illegible]	[illegible]	[illegible]
TPHd	NA	NA	NA	NA
B	[illegible]	[illegible]	[illegible]	[illegible]
T	[illegible]	[illegible]	[illegible]	[illegible]
E	[illegible]	[illegible]	[illegible]	[illegible]
X	[illegible]	[illegible]	[illegible]	[illegible]



SB-11			
Depth	5'	10'	20'
TPHg	[illegible]	[illegible]	[illegible]
TPHd	[illegible]	[illegible]	[illegible]
B	[illegible]	[illegible]	[illegible]
T	[illegible]	[illegible]	[illegible]
E	[illegible]	[illegible]	[illegible]
X	[illegible]	[illegible]	[illegible]

SB-10					
Depth	5'	10'	15'	20'	25'
TPHg	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TPHd	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
B	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
T	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
E	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
X	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

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	5'	10'
TPHg	[illegible]	[illegible]
TPHd	[illegible]	[illegible]
B	[illegible]	[illegible]
T	[illegible]	[illegible]
E	[illegible]	[illegible]
X	[illegible]	[illegible]

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, 1990, 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.

0 FEET 20
SCALE

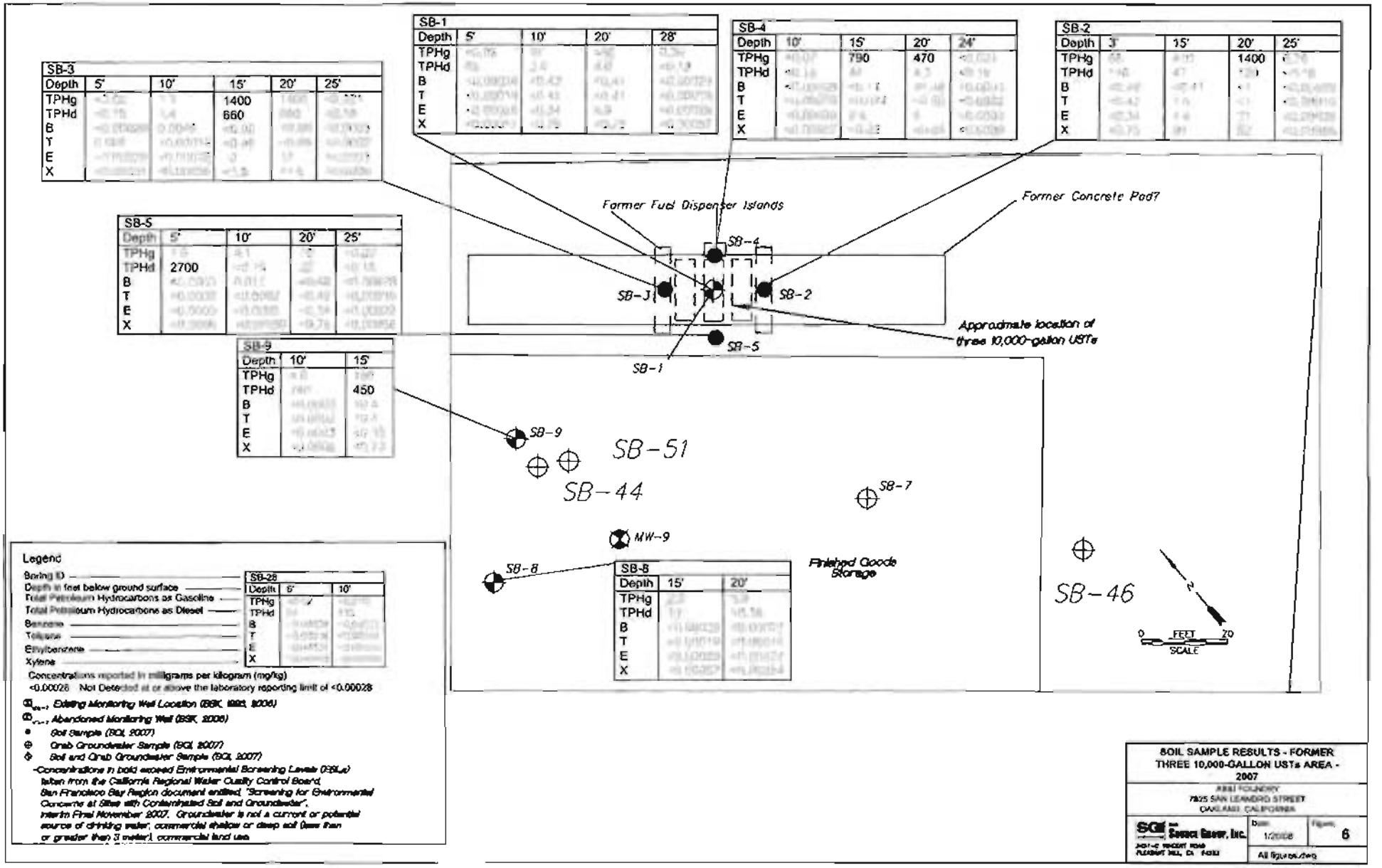
SOIL SAMPLE RESULTS - FORMER 550-GALLON GASOLINE UST AREA - 2007

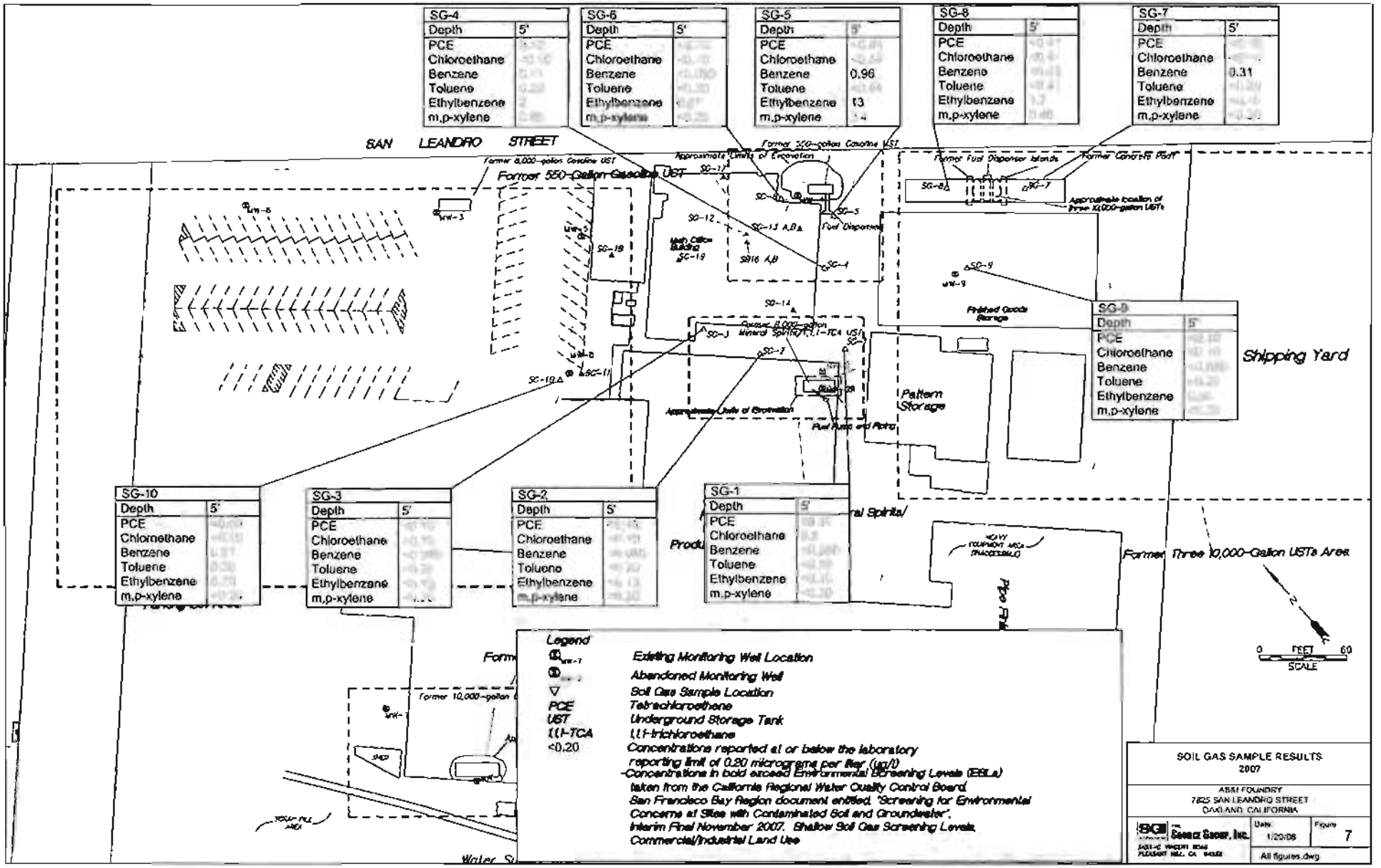
AB&I FOUNDRY
7825 SAN LEANDRO STREET
OAKLAND, CALIFORNIA

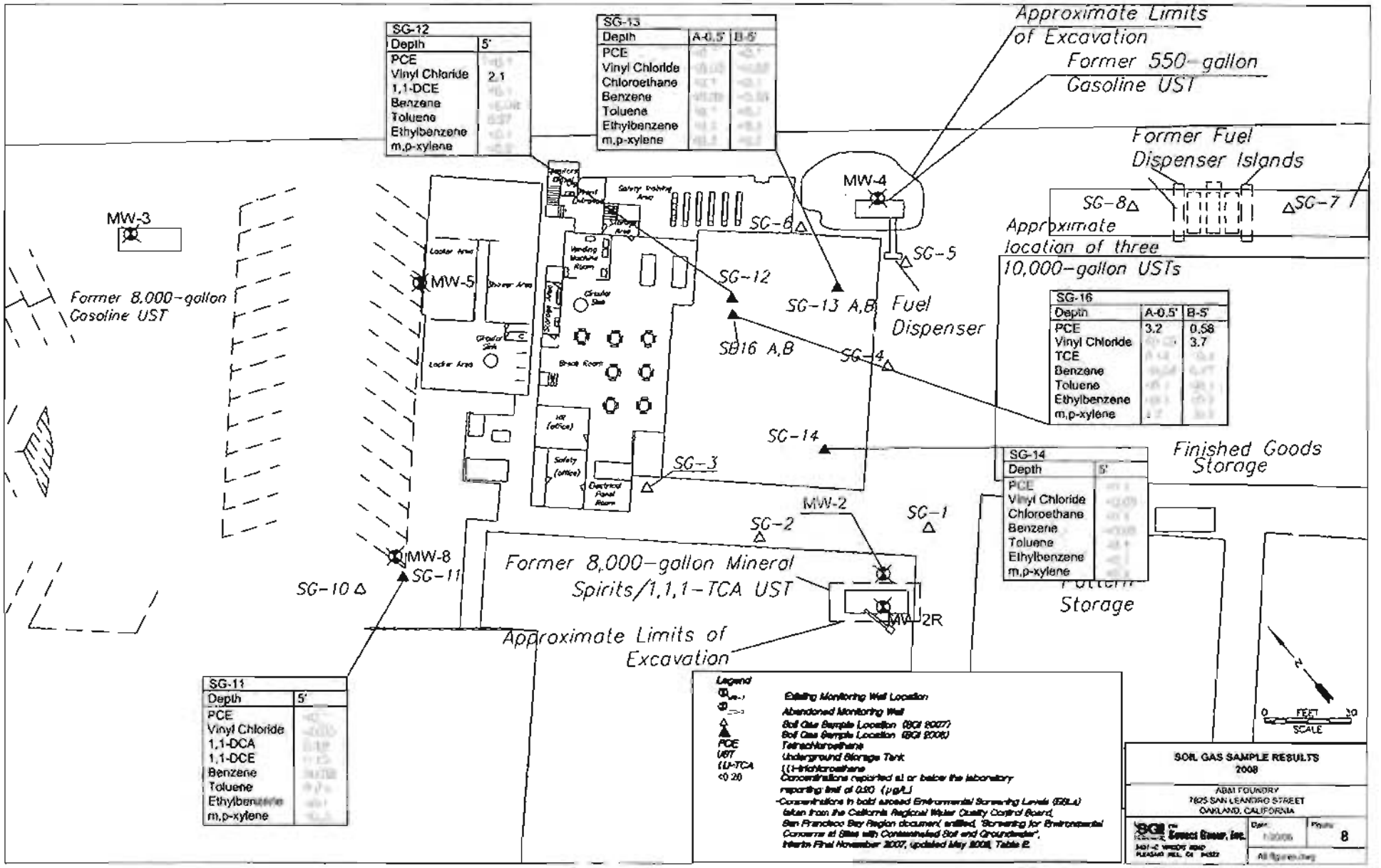
SGI Sounding Group, Inc.

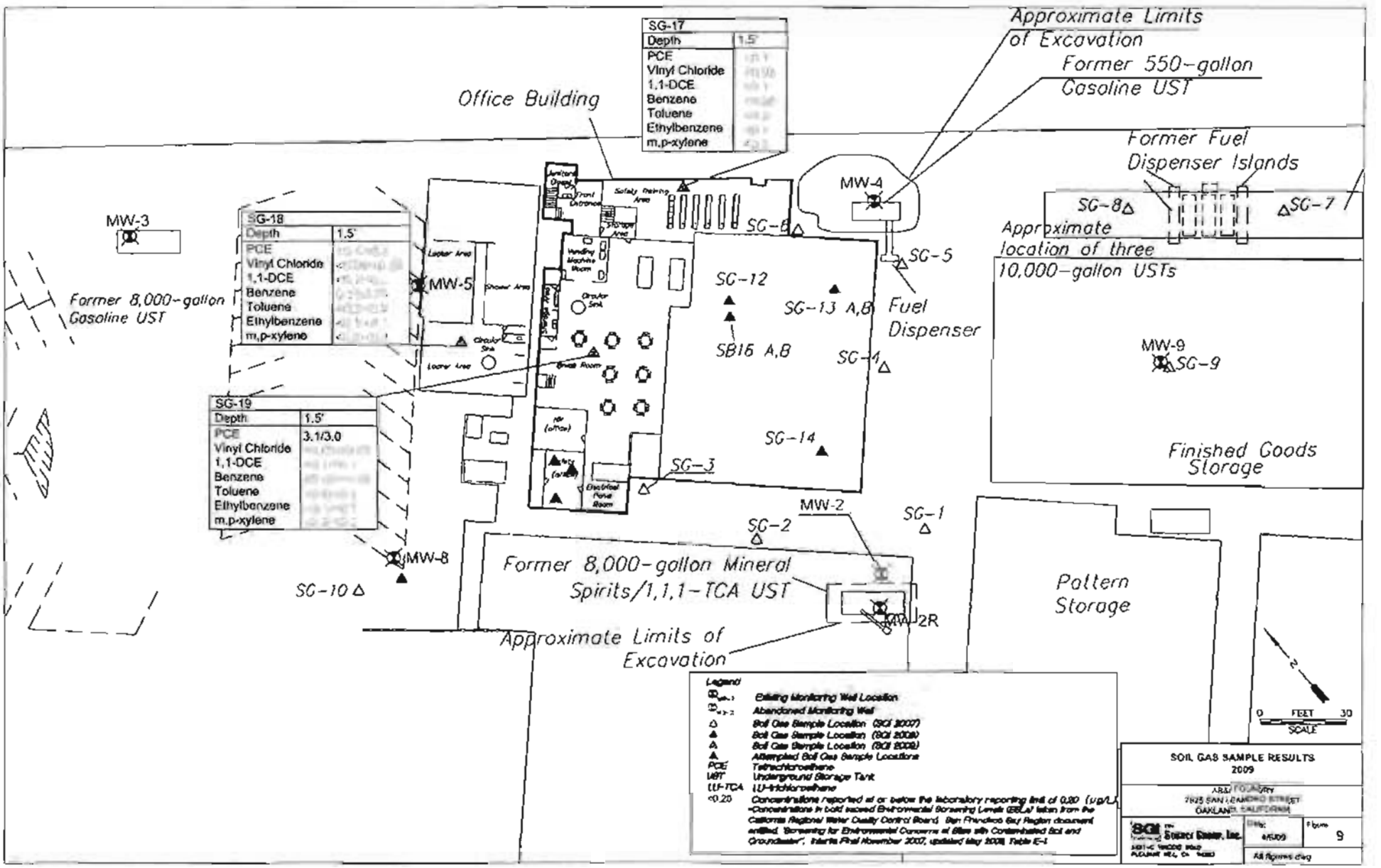
Date: [illegible] | Figure: 5

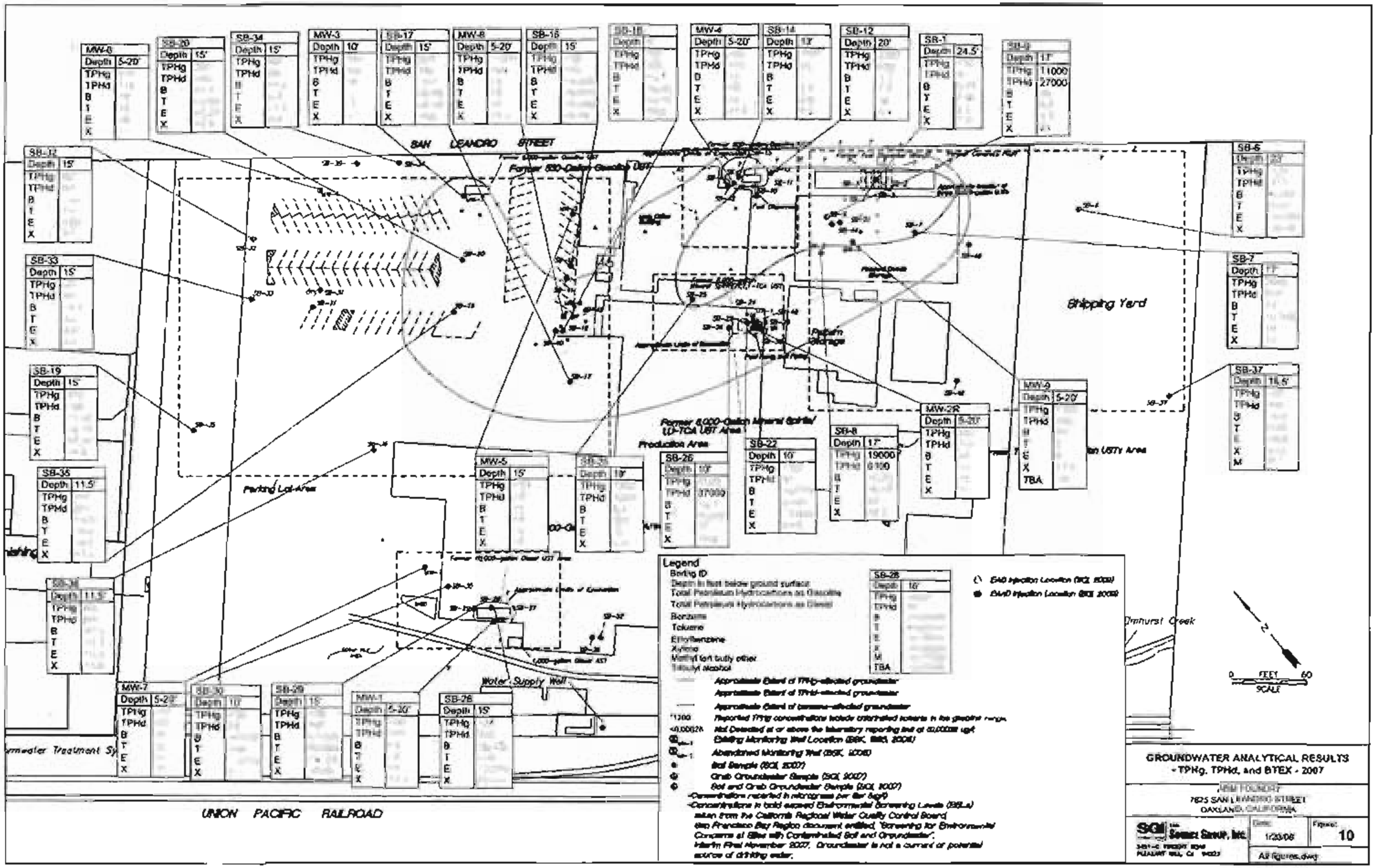
All figures.dwg

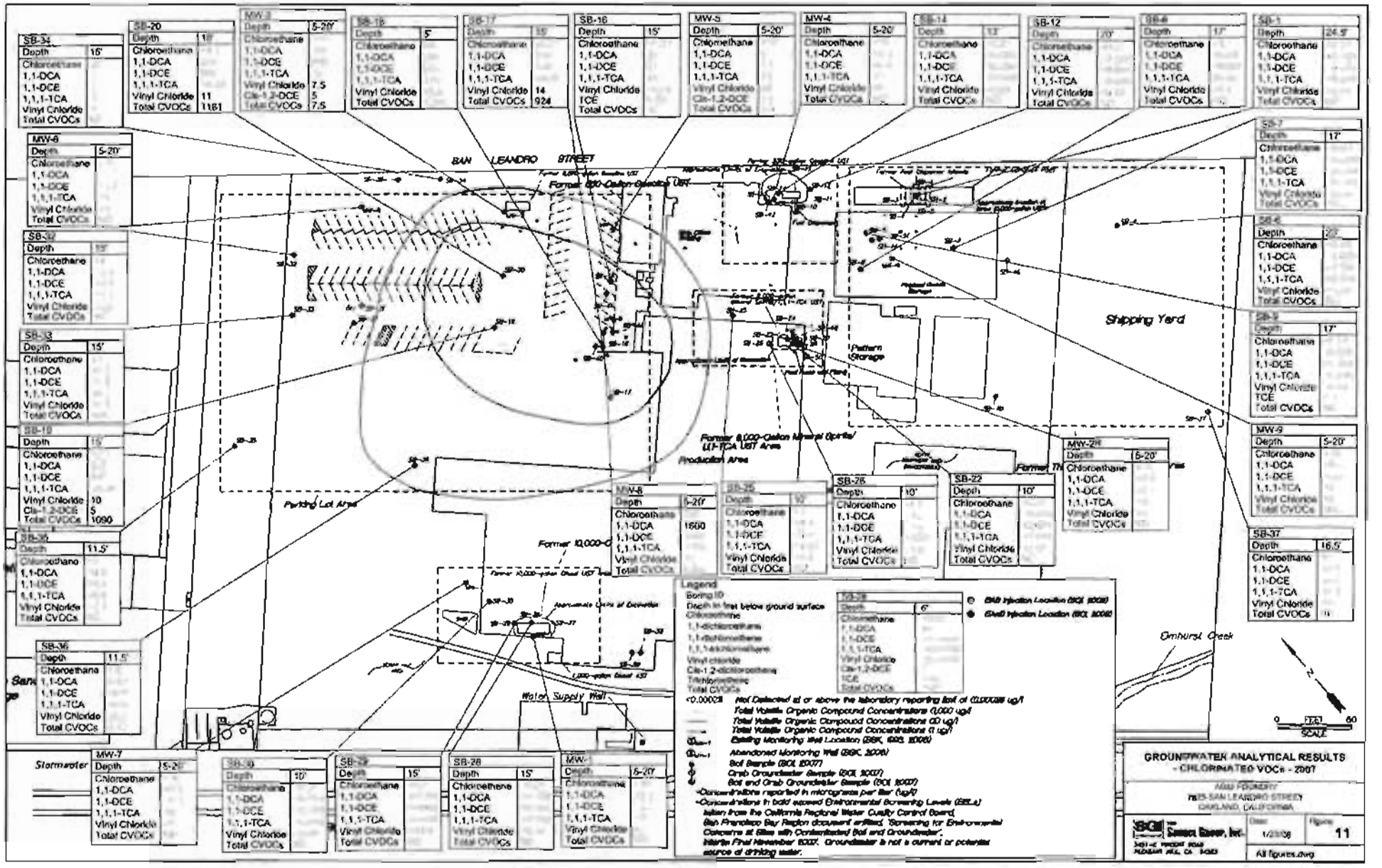

SB-1
Depth 5' 10' 20' 28'
TPHg
TPHd
B
T
E
X
SB-2
Depth 3' 15' 20' 25'
TPHg 1400
TPHd
B
T
E
X
SB-3
Depth 5' 10' 15' 20' 25'
TPHg 1400
TPHd 660
B
T
E
X
SB-4
Depth 10' 15' 20' 24'
TPHg 790 470
TPHd
B
T
E
X
SB-5
Depth 5' 10' 20' 25'
TPHg
TPHd 2700
B
T
E
X
SB-9
Depth 10' 15'
TPHg
TPHd 450
B
T
E
X
SB-8
Depth 15' 20'
TPHg
TPHd
B
T
E
X
Former Fuel Dispenser Islands
Former Concrete Pad?
Approximate location of three 10,000-gallon USTs
SB-1
SB-2
SB-3
SB-4
SB-5
SB-9
SB-51
SB-44
SB-7
MW-9
SB-8
Finished Goods Storage
SB-46
0 FEET 20
SCALE
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 5' 10'
TPHg
TPHd
B
T
E
X
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)
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.
SOIL SAMPLE RESULTS - FORMER THREE 10,000-GALLON USTs AREA - 2007
ABAJ FOUNDRY
7825 SAN LEANDRO STREET
OAKLAND, CALIFORNIA
Source Geosr, Inc.
Date 1/2008
Figure 6
All figures.dwg

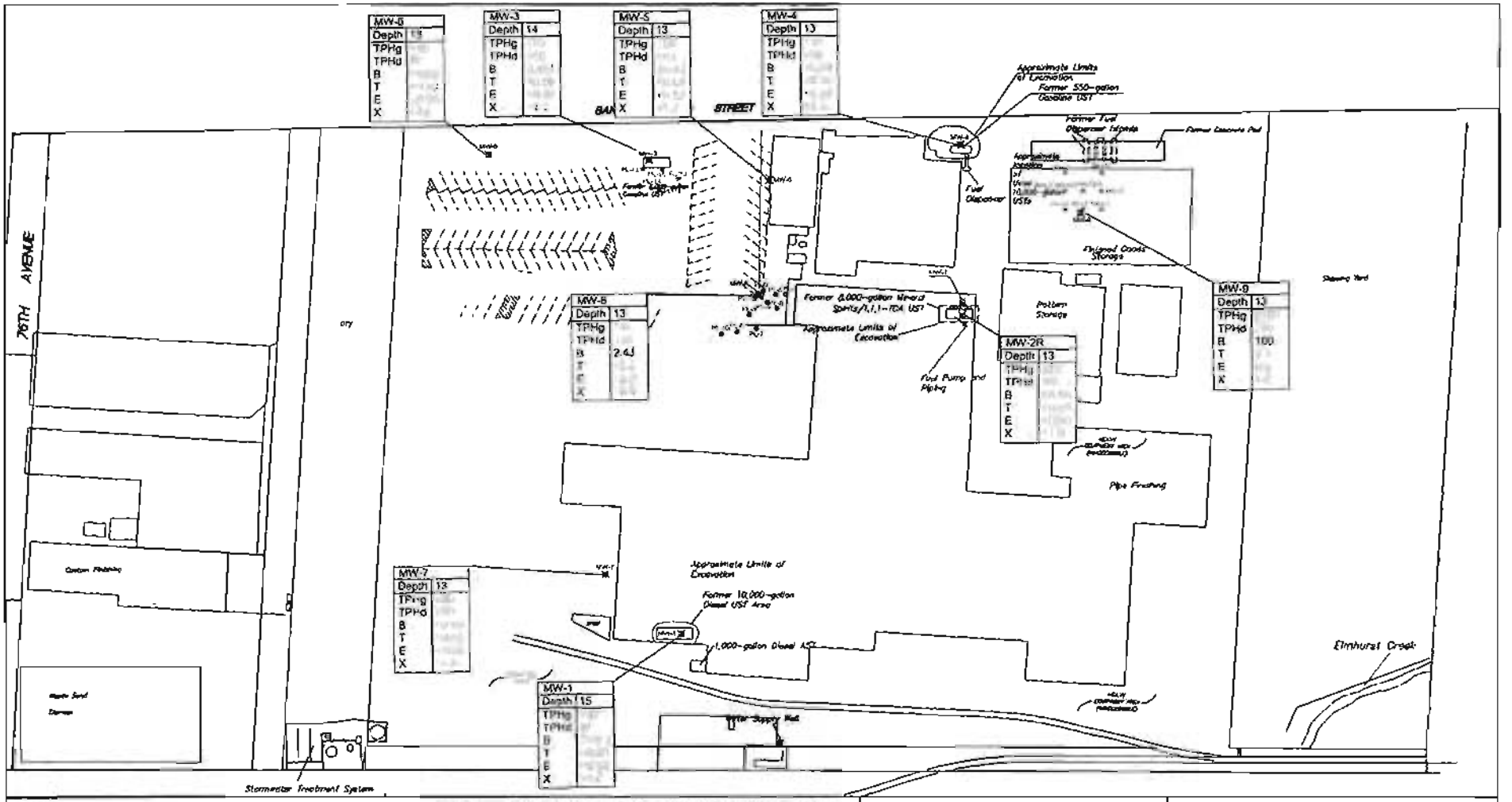

SG-4
Depth 5'
PCE
Chloroethane
Benzene
Toluene
Ethylbenzene
m,p-xylene
SG-6
Depth 5'
PCE
Chloroethane
Benzene
Toluene
Ethylbenzene
m,p-xylene
SG-5
Depth 5'
PCE
Chloroethane
Benzene 0.96
Toluene
Ethylbenzene 13
m,p-xylene
SG-8
Depth 5'
PCE
Chloroethane
Benzene
Toluene
Ethylbenzene
m,p-xylene
SG-7
Depth 5'
PCE
Chloroethane
Benzene 0.31
Toluene
Ethylbenzene
m,p-xylene
SAN LEANDRO STREET
Former 550-Gallon Gasoline UST
Former Fuel Dispenser Islands
Former Control Post
Fuel Dispenser
Finished Goods Storage
Pattern Storage
Shipping Yard
Former Three 10,000-Gallon USTs Area
SG-9
Depth 5'
PCE
Chloroethane
Benzene
Toluene
Ethylbenzene
m,p-xylene
SG-10
Depth 5'
PCE
Chloroethane
Benzene
Toluene
Ethylbenzene
m,p-xylene
SG-3
Depth 5'
PCE
Chloroethane
Benzene
Toluene
Ethylbenzene
m,p-xylene
SG-2
Depth 5'
PCE
Chloroethane
Benzene
Toluene
Ethylbenzene
m,p-xylene
SG-1
Depth 5'
PCE
Chloroethane
Benzene
Toluene
Ethylbenzene
m,p-xylene
Legend
Existing Monitoring Well Location
Abandoned Monitoring Well
Soil Gas Sample Location
PCE Tetrachloroethene
UST Underground Storage Tank
1,1,1-TCA 1,1,1-trichloroethane
<0.20 Concentrations reported at or below the laboratory reporting limit of 0.20 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. Shallow Soil Gas Screening Levels,
Commercial/Industrial Land Use
0 FEET 60
SCALE
SOIL GAS SAMPLE RESULTS
2007
ABM FOUNDRY
7825 SAN LEANDRO STREET
OAKLAND, CALIFORNIA
SGI
Date 1/20/08
Figure 7
All figures.dwg


SG-12
Depth 5'
PCE
Vinyl Chloride 2.1
1,1-DCE
Benzene
Toluene
Ethylbenzene
m,p-xylene
SG-13
Depth A-0.5' B-5'
PCE
Vinyl Chloride
Chloroethane
Benzene
Toluene
Ethylbenzene
m,p-xylene
Approximate Limits of Excavation
Former 550-gallon Gasoline UST
Former Fuel Dispenser Islands
MW-4
SG-8
SG-7
SG-6
SG-5
Approximate location of three 10,000-gallon USTs
MW-3
MW-5
Former 8,000-gallon Gasoline UST
SG-12
SG-13 A,B
Fuel Dispenser
SG16 A,B
SG-4
SG-16
Depth A-0.5' B-5'
PCE 3.2 0.58
Vinyl Chloride 3.7
TCE
Benzene
Toluene
Ethylbenzene
m,p-xylene
SG-14
SG-3
Finished Goods Storage
SG-14
Depth 5'
PCE
Vinyl Chloride
Chloroethane
Benzene
Toluene
Ethylbenzene
m,p-xylene
MW-2
SG-1
SG-2
MW-8
SG-11
SG-10
Former 8,000-gallon Mineral Spirits/1,1,1-TCA UST
MW-2R
Approximate Limits of Excavation
Pattern Storage
SG-11
Depth 5'
PCE
Vinyl Chloride
1,1-DCA
1,1-DCE
Benzene
Toluene
Ethylbenzene
m,p-xylene
Legend
Existing Monitoring Well Location
Abandoned Monitoring Well
Soil Gas Sample Location (BGI 2007)
Soil Gas Sample Location (BGI 2008)
PCE Tetrachloroethene
UST Underground Storage Tank
1,1,1-TCA 1,1,1-Trichloroethane
<0.20 Concentrations reported at or below the laboratory reporting limit of 0.50 (µg/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, (updated May 2008), Table E.
0 FEET 30
SCALE
SOIL GAS SAMPLE RESULTS 2008
ABM FOUNDRY
7625 SAN LEANDRO STREET
OAKLAND, CALIFORNIA
Date
Figure 8


SG-17
Depth 1.5'
PCE
Vinyl Chloride
1,1-DCE
Benzene
Toluene
Ethylbenzene
m,p-xylene
Office Building
Approximate Limits of Excavation
Former 550-gallon Gasoline UST
Former Fuel Dispenser Islands
MW-4
SG-8
SG-7
MW-3
SG-18
Depth 1.5'
PCE
Vinyl Chloride
1,1-DCE
Benzene
Toluene
Ethylbenzene
m,p-xylene
SG-6
SG-5
Approximate location of three 10,000-gallon USTs
Former 8,000-gallon Gasoline UST
MW-5
SG-12
SG-13 A,B
Fuel Dispenser
SB16 A,B
SG-4
MW-9
SG-9
SG-19
Depth 1.5'
PCE 3.1/3.0
Vinyl Chloride
1,1-DCE
Benzene
Toluene
Ethylbenzene
m,p-xylene
SG-14
Finished Goods Storage
SG-3
MW-2
SG-1
SG-2
MW-8
SG-10
Former 8,000-gallon Mineral Spirits/1,1,1-TCA UST
Pottery Storage
MW-2R
Approximate Limits of Excavation
Legend
Existing Monitoring Well Location
Abandoned Monitoring Well
Soil Gas Sample Location (SGI 2007)
Soil Gas Sample Location (SGI 2008)
Soil Gas Sample Location (SGI 2009)
Attempted Soil Gas Sample Locations
PCE Tetrachloroethene
UST Underground Storage Tank
1,1,1-TCA 1,1,1-trichloroethane
<0.20 Concentrations reported at or below the laboratory reporting limit of 0.20 (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, updated May 2008, Table E-1
0 FEET 30
SCALE
SOIL GAS SAMPLE RESULTS
2009
7925 SAN LEANDRO STREET
OAKLAND, CALIFORNIA
Source Group, Inc.
Date: 4/6/09
Figure 9
All figures drag


SAN LEANDRO STREET
UNION PACIFIC RAILROAD
Shipping Yard
Parking Lot Area
Production Area
Water Supply Well
Former 6,000-Gallon Mineral Spirits/
1,1,1-TCA UST Area
Former 550-Gallon Gasoline UST
MW-6
MW-3
MW-8
MW-4
MW-5
MW-7
MW-1
MW-9
MW-2R
SB-20
SB-34
SB-17
SB-15
SB-18
SB-14
SB-12
SB-1
SB-9
SB-6
SB-7
SB-37
SB-32
SB-33
SB-19
SB-35
SB-36
SB-26
SB-22
SB-8
SB-30
SB-29
SB-28
Depth
TPHg
TPHd
B
T
E
X
M
TBA
11000
27000
19000
37000
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
Tertiary butyl alcohol
Approximate Extent of TPHg-affected groundwater
Approximate Extent of TPHd-affected groundwater
Approximate Extent of benzene-affected groundwater
Existing Monitoring Well Location
Abandoned Monitoring Well
Soil Sample (SGI, 2007)
Grab Groundwater Sample (SGI, 2007)
Soil and Grab Groundwater Sample (SGI, 2007)
-Concentrations reported in micrograms per liter (ug/l)
FEET
0
60
SCALE
GROUNDWATER ANALYTICAL RESULTS
- TPHg, TPHd, and BTEX - 2007
7825 SAN LEANDRO STREET
OAKLAND, CALIFORNIA
SGI
Date:
1/23/08
Figure:
10
All figures.dwg


SB-34
Depth 15'
Chloroethane
1,1-DCA
1,1-DCE
1,1,1-TCA
Vinyl Chloride
Total CVOCs
SB-20
Depth 10'
Chloroethane
1,1-DCA
1,1-DCE
1,1,1-TCA
Vinyl Chloride 11
Total CVOCs 1181
MW-3
Depth 5-20'
Chloroethane
1,1-DCA
1,1-DCE
1,1,1-TCA
Vinyl Chloride 7.5
Cis-1,2-DCE 5
Total CVOCs 7.5
SB-18
Depth 5'
Chloroethane
1,1-DCA
1,1-DCE
1,1,1-TCA
Vinyl Chloride
Total CVOCs
SB-17
Depth 15'
Chloroethane
1,1-DCA
1,1-DCE
1,1,1-TCA
Vinyl Chloride 14
Total CVOCs 924
SB-16
Depth 15'
Chloroethane
1,1-DCA
1,1-DCE
1,1,1-TCA
Vinyl Chloride
TCE
Total CVOCs
MW-5
Depth 5-20'
Chloroethane
1,1-DCA
1,1-DCE
1,1,1-TCA
Vinyl Chloride
Cis-1,2-DCE
Total CVOCs
MW-4
Depth 5-20'
Chloroethane
1,1-DCA
1,1-DCE
1,1,1-TCA
Vinyl Chloride
Total CVOCs
SB-14
Depth 13'
Chloroethane
1,1-DCA
1,1-DCE
1,1,1-TCA
Vinyl Chloride
Total CVOCs
SB-12
Depth 20'
Chloroethane
1,1-DCA
1,1-DCE
1,1,1-TCA
Vinyl Chloride
Total CVOCs
SB-8
Depth 17'
Chloroethane
1,1-DCA
1,1-DCE
1,1,1-TCA
Vinyl Chloride
Total CVOCs
SB-1
Depth 24.5'
Chloroethane
1,1-DCA
1,1-DCE
1,1,1-TCA
Vinyl Chloride
Total CVOCs
MW-6
Depth 5-20'
Chloroethane
1,1-DCA
1,1-DCE
1,1,1-TCA
Vinyl Chloride
Total CVOCs
SB-7
Depth 17'
Chloroethane
1,1-DCA
1,1-DCE
1,1,1-TCA
Vinyl Chloride
Total CVOCs
SB-32
Depth 15'
Chloroethane
1,1-DCA
1,1-DCE
1,1,1-TCA
Vinyl Chloride
Total CVOCs
SB-6
Depth 20'
Chloroethane
1,1-DCA
1,1-DCE
1,1,1-TCA
Vinyl Chloride
Total CVOCs
SB-33
Depth 15'
Chloroethane
1,1-DCA
1,1-DCE
1,1,1-TCA
Vinyl Chloride
Total CVOCs
SB-9
Depth 17'
Chloroethane
1,1-DCA
1,1-DCE
1,1,1-TCA
Vinyl Chloride
TCE
Total CVOCs
SB-10
Depth 15'
Chloroethane
1,1-DCA
1,1-DCE
1,1,1-TCA
Vinyl Chloride 10
Cis-1,2-DCE 5
Total CVOCs 1090
MW-9
Depth 5-20'
Chloroethane
1,1-DCA
1,1-DCE
1,1,1-TCA
Vinyl Chloride
Total CVOCs
SB-35
Depth 11.5'
Chloroethane
1,1-DCA
1,1-DCE
1,1,1-TCA
Vinyl Chloride
Total CVOCs
SB-37
Depth 16.5'
Chloroethane
1,1-DCA
1,1-DCE
1,1,1-TCA
Vinyl Chloride
Total CVOCs
SB-36
Depth 11.5'
Chloroethane
1,1-DCA
1,1-DCE
1,1,1-TCA
Vinyl Chloride
Total CVOCs
MW-8
Depth 5-20'
Chloroethane 1600
1,1-DCA
1,1-DCE
1,1,1-TCA
Vinyl Chloride
Total CVOCs
SB-25
Depth 10'
Chloroethane
1,1-DCA
1,1-DCE
1,1,1-TCA
Vinyl Chloride
Total CVOCs
SB-26
Depth 10'
Chloroethane
1,1-DCA
1,1-DCE
1,1,1-TCA
Vinyl Chloride
Total CVOCs
SB-22
Depth 10'
Chloroethane
1,1-DCA
1,1-DCE
1,1,1-TCA
Vinyl Chloride
Total CVOCs
MW-2R
Depth 5-20'
Chloroethane
1,1-DCA
1,1-DCE
1,1,1-TCA
Vinyl Chloride
Total CVOCs
MW-7
Depth 5-20'
Chloroethane
1,1-DCA
1,1-DCE
1,1,1-TCA
Vinyl Chloride
Total CVOCs
SB-29
Depth 10'
Chloroethane
1,1-DCA
1,1-DCE
1,1,1-TCA
Vinyl Chloride
Total CVOCs
SB-29
Depth 15'
Chloroethane
1,1-DCA
1,1-DCE
1,1,1-TCA
Vinyl Chloride
Total CVOCs
SB-28
Depth 15'
Chloroethane
1,1-DCA
1,1-DCE
1,1,1-TCA
Vinyl Chloride
Total CVOCs
MW-
Depth 5-20'
Chloroethane
1,1-DCA
1,1-DCE
1,1,1-TCA
Vinyl Chloride
Total CVOCs
SB-23
Depth 6'
Chloroethane
1,1-DCA
1,1-DCE
1,1,1-TCA
Vinyl Chloride
Cis-1,2-DCE
TCE
Total CVOCs
BAN LEANDRO STREET
Former 8,000-Gallon Gasoline UST
Former 8,000-Gallon Mineral Spirits/ 1,1,1-TCA UST Area
Production Area
Parking Lot Area
Former 10,000-G
Former 10,000-gallon Diesel UST
Abandoned Lines of Excavation
1,000-gallon Diesel UST
Water Supply Well
Shipping Yard
Pattern Storage
Former Th
Stormwater
Dimhurst Creek
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 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 (20 ug/l
Total Volatile Organic Compound Concentrations (1 ug/l
Existing Monitoring Well Location (SEK, 1993, 2006)
Abandoned Monitoring Well (SEK, 2006)
Soil Sample (SCI, 2007)
Grab Groundwater Sample (SCI, 2007)
Soil and Grab Groundwater Sample (SCI, 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.
SB-38 Injection Location (SCI, 2008)
SB-40 Injection Location (SCI, 2008)
0 30 60
SCALE
GROUNDWATER ANALYTICAL RESULTS
- CHLORINATED VOCs - 2007
ABU FOUNDRY
7825 SAN LEANDRO STREET
OAKLAND, CALIFORNIA
Stuber Consultants, Inc.
Date 1/23/08
Figure 11
All figures.dwg



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

*1203 Reported TPHg concentrations include chlorinated solvents in the gasoline range.

Existing Monitoring Well Location (BSK, 1993, 2009)

Abandoned Monitoring Well (BSK, 2006)

June 2009 EAB Injection Location

June 2009 EAB Injection Location

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

ABSI FOUNDRY
7825 SAN LEANDRO STREET
OAKLAND, CALIFORNIA

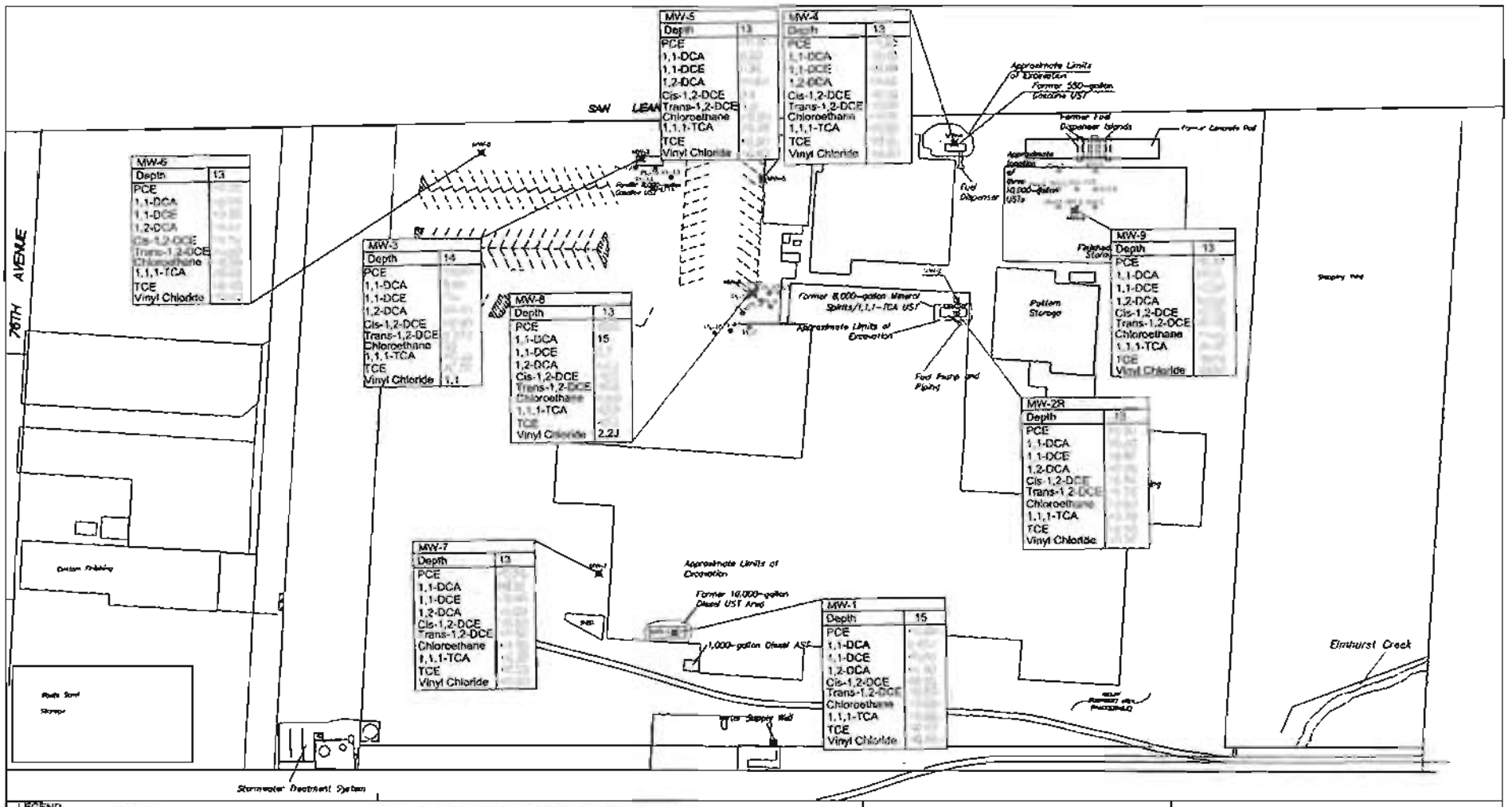
PROJECT NO.	DATE	DRAWN BY:	APP. BY:
01-ABI400	09/24/2010	ZA	KC

0 80 160
HORIZONTAL SCALE IN FEET

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

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

FIGURE 12



LEGEND

MW-2R	Boring ID
Depth	Depth in feet below ground surface
PCE	Tetrachloroethene
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

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

Existing Monitoring Well Location (ESK, 1993, 2001)

Abandoned Monitoring Well (ESK, 2001)

June 2009 EAB Injection Location

June 2009 EAnB Injection Location

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

AB&I FOUNDRY
7825 SAN LEANDRO STREET
OAKLAND, CALIFORNIA

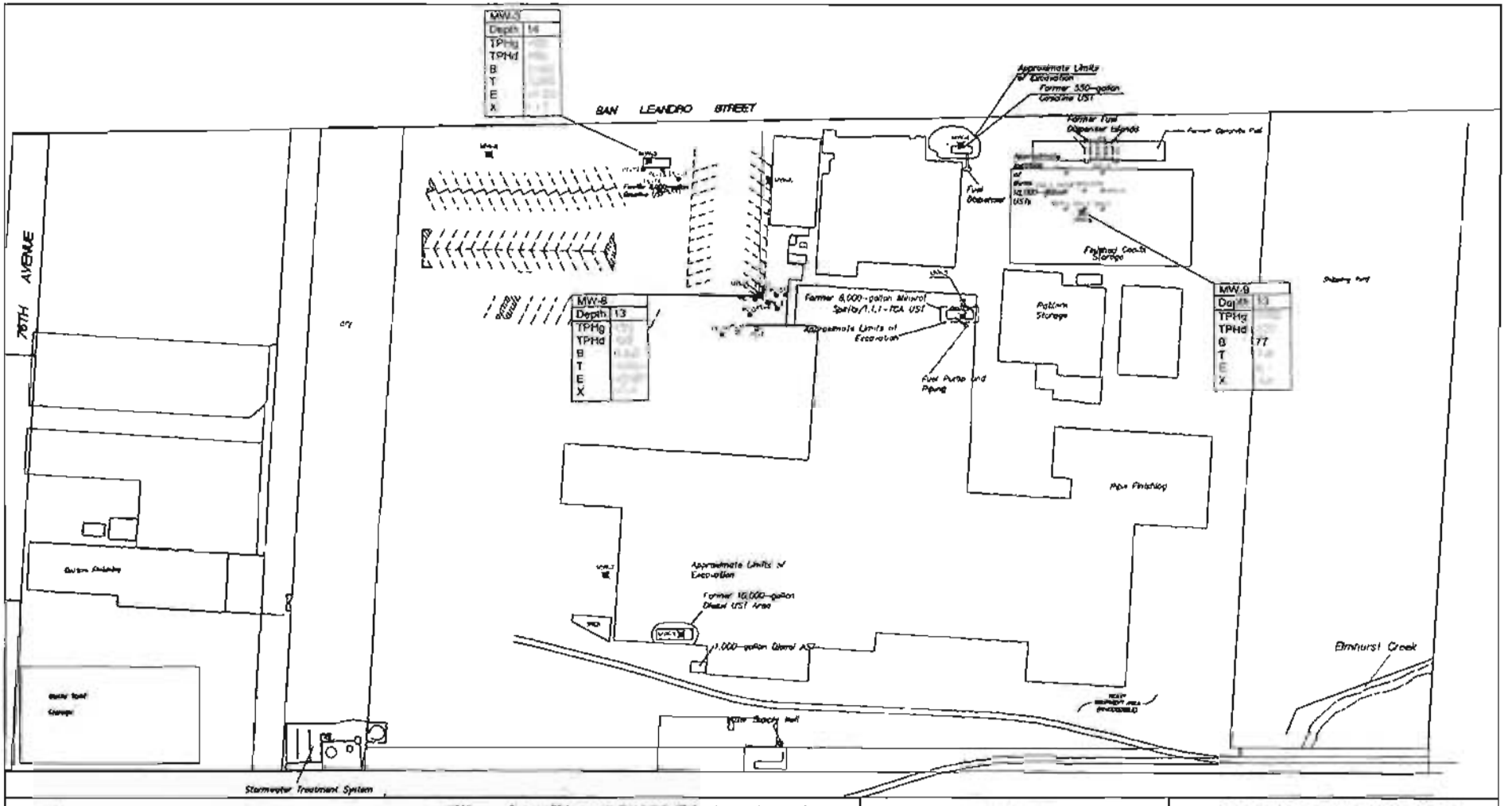
PROJECT NO.	DATE	DRAWN BY:	APP. BY:
01-AB1-001	09/16/2010	ZA	KD

0 80 160
HORIZONTAL SCALE IN FEET

GROUNDWATER ANALYTICAL RESULTS -CHLORINATED VOCs- JULY 2010

THE SOURCE GROUP, INC.
3451-C VINCENT ROAD
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.

Existing Monitoring Well Location (BSK, 1993, 2004)

Abandoned Monitoring Well (BSK, 2004)

June 2009 EAIS Injection Location

June 2009 EAIS Injection Location

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

AB&I FOUNDRY
7825 SAN LEANDRO STREET
OAKLAND, CALIFORNIA

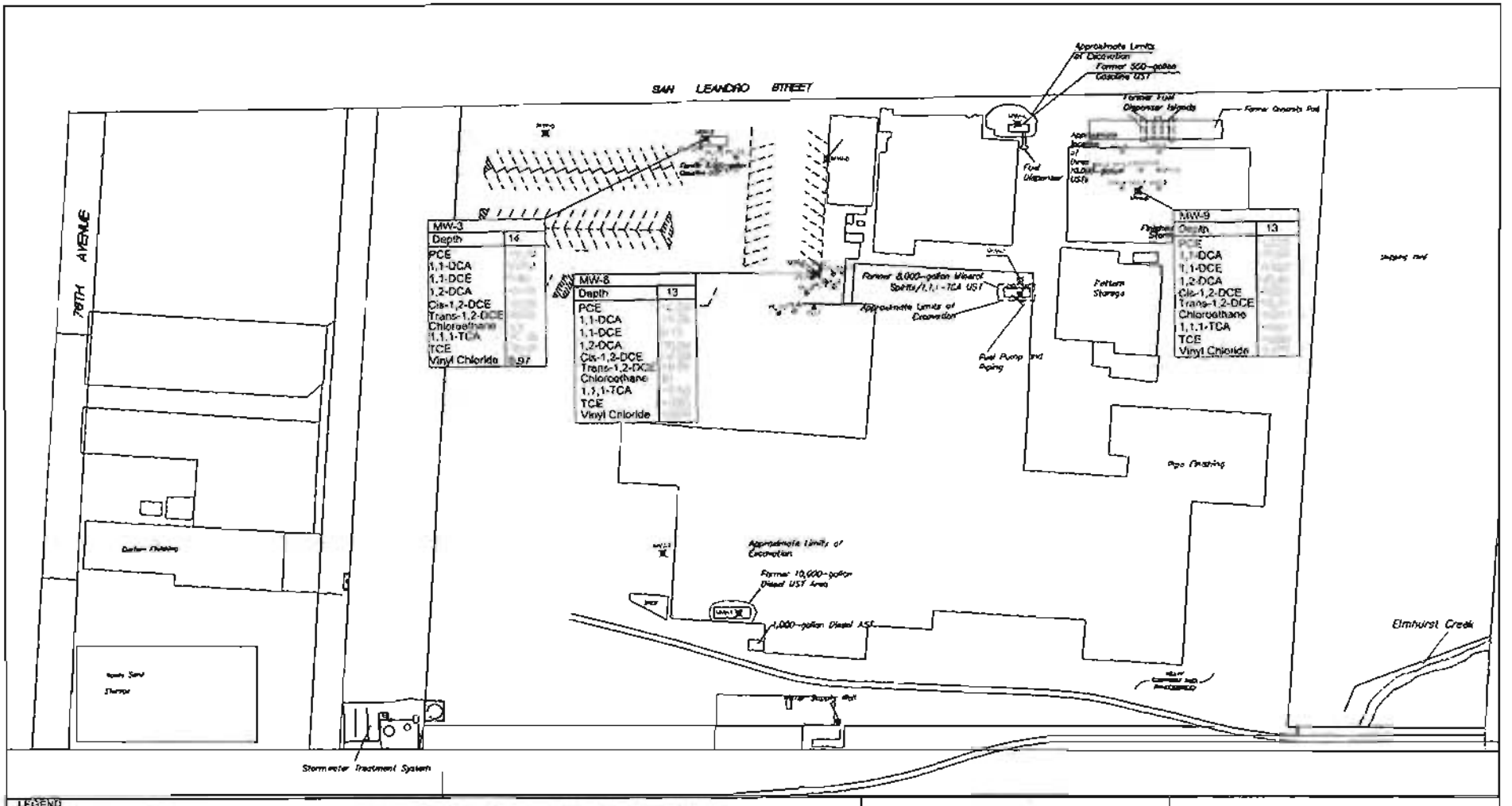
PROJECT NO	DATE	DRAWN BY	APP. BY
01-081-001	1/12/2010	ZA	KD

0 80 160
HORIZONTAL SCALE IN FEET

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

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

FIGURE 14



LEGEND

MW-3	Boring ID
Depth	Depth in feet below ground surface
PCE	Tetrachloroethene
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 Not Detected at or above the laboratory Practical Quantitation Limit (PQL) of <0.50 ug/l

Existing Monitoring Well Location (BSK, 2003, 2006)

Abandoned Monitoring Well (BSK, 2006)

June 2009 EAB Injection Location

June 2009 EAB Injection Location

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

ABAI FOUNDRY
7825 SAN LEANDRO STREET
OAKLAND, CALIFORNIA

PROJECT NO.	DATE	DRAWN BY:	APP. BY:
01-A01-001	08/26/2010	ZA	AD

0 80 160
HORIZONTAL SCALE IN FEET

GROUNDWATER ANALYTICAL RESULTS
-CHLORINATED VOCs-
DECEMBER 2010

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

FIGURE
15

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	<0.00056
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 ten butyl ether
(mg/kg) - milligrams per kilogram
TPHg - Total Petroleum Hydrocarbons as Gasoline
TPHd - Total Petroleum Hydrocarbons as Diesel
<0.005 - Not reported at or above laboratory's reporting limit of 0.005 mg/kg
UST - underground storage tank
1,1,1-TCA - 1,1,1-Trichloroethane

-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	16	600
	Commercial		40	15	1500	8	7.4	750	80	230	750	1	40	150	10	40	15	190	800
Background			<10	62	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	8.8	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	0.86	<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	8.1	77	38	<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	4.8	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	2.8	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	23	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 America 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&J Foundry
7625 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[4]	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)
ABSI 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	890
MCLs[2]		NA	17*	NA	1.0	150	700	1,750	13	NA	NA	NA	NA	0.5
MW-8	05/21/09	<50	<5.0	2.1	2.9	<5.0	<5.0	<10	--	--	--	--	--	<5.0
Dup	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	180	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
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	38	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-Dichloroethene	1,1-Dichloroethane	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	10	NE	NE
MCLs[2]		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	6.4	<2.5	<2.5
		CAHB injections										
	07/01/09	<2.5	–	<2.5	150	820	7.6	<2.5	<2.5	5.7	<2.5	<2.5
	08/07/09	<0.50	–	61	110	84	1.2	<0.50	<0.50	28	<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	6.8	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	–	–	3.8	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	0.83	2.2	0.67	<0.50	<0.50	<0.50	<0.50
	07/09/10	<0.50	–	<0.50	0.40	0.28	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
	12/08/09	<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	380,000	13	NE	NE
MCLs[1]		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	–	<0.60	<0.60	<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
	EAB Injections											
	07/01/09	<2.5	–	350	1,200	1,100	<2.5	<2.5	980	11	<2.5	<2.5
	08/07/09	<5.0	–	370	1,600	1,300	<5.0	<5.0	1,700	9.8	<5.0	<5.0
	09/10/09	<2.5	–	340	2,600	1,100	<2.5	<2.5	46	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	<2.6	<2.5	2.9	2.7	<2.5
	12/22/10	–	–	91	<0.50	0.78	<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	<0.60	4.0	3.8
	12/08/09	<0.50	–	<0.50	<0.50	<0.60	<0.50	<0.50		<0.50	5.5	1.3
	04/09/10	<0.50	–	<0.50	<0.60	<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	–	–	<0.60	<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