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October 7, 2009

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 Enhanced Anaerobic Biodegradation Pilot Study Report, AB&I Foundry, 7825 San Leandro Street, Oakland California 94621

Dear Mr. Wickham:

AB&I respectfully submits the attached Enhanced Anaerobic Biodegradation Pilot Study Report 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: Enhanced Anaerobic Biodegradation Pilot Study Report, AB&I Foundry, 7825 San Leandro Street, Oakland, California

May 2009 Semi-Annual Monitoring and Enhanced Anaerobic Biodegradation Pilot Study Report

AB&I Foundry
7825 San Leandro Street
Oakland, California

01-ABI.001

Prepared For:

AB& I Foundry
7825 San Leandro Street
Oakland, California

Prepared By:

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October 7, 2009

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CERTIFICATION

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

Jon Philipp, P.G., C.HG.
Senior Hydrogeologist
The Source Group, Inc.

1.0 INTRODUCTION

On behalf of AB&I Foundry (AB&I), The Source Group. Inc. (SGI) has prepared this Semi-Annual Monitoring and Enhanced Anaerobic Biodegradation (EAB) Pilot Study Report (Report) for the AB&I Foundry Site located at 7825 San Leandro Street in Oakland, Calfornia (Figure 1; Site). This Report details the results of semi-annual monitoring activities conducted in May 2009 and the progress and results of implementing the scope of work outlined in SGI's "Work Plan for Enhanced Anaerobic Biodegradation Pilot Study – Parking Lot Area and Former 8,000-Gallon Mineral Spirits/1,1,1-TCA UST", dated March 12, 2009 (SGI 2009). This Report was prepared for submittal to the Alameda County Environmental Health Department (ACEH).

2.0 BACKGROUND

2.1 Site Description and History

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.

AB&I has been operating at its present 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. The Site contains various warehouses, manufacturing and office buildings. The entire Site is covered with buildings and asphalt and concrete pavement. Seven underground storage tanks (USTs) were previously located on the Site. The USTs included 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.

Following the removal of the seven USTs, various investigations were conducted at the Site to characterize the presence and extent of contaminated soil and groundwater associated with the former USTs. In July 2006, a soil and groundwater assessment was conducted as part of a property transfer. According to BSK, groundwater samples were collected from each of the existing monitoring wells (MW-1, MW-3, and MW-4) and submitted for chemical analysis for polycyclic aromatic hydrocarbons (PAHs) using U.S. Environmental Protection Agency (EPA) Method 8270C, total petroleum hydrocarbons as gasoline (TPHg) and total petroleum hydrocarbons as diesel (TPHd) using EPA Method 8015M as well as benzene, toluene, ethylbenzene, and xylenes (BTEX) using EPA Method 8020. All samples were also analyzed for volatile organic compounds (VOCs) including fuel oxygenates, using EPA Method 8260B. Well MW-2 was found to be damaged beyond repair, and therefore was not sampled. On August 13, 2006 monitoring well MW-2, was abandoned (BSK, 2007).

On August 12, 13, and 18, 2006, six new groundwater monitoring wells (MW-2R, and MW-5 through MW-9) were installed. Between August 17 and August 23, 2006, water levels were measured and groundwater samples were collected from the three existing and six new monitoring wells. One groundwater sample from each of the previously existing wells (MW-1, MW-3, and MW-4) was analyzed

for PAHs. Groundwater samples from the six newly installed wells (MW-2R, MW-5, MW-6, MW-7, MW-8 and MW-9) were submitted for chemical analysis for TPHg TPHd, BTEX, VOCs including fuel oxygenates, and PAHs. In addition, soil samples were collected at various depth intervals during the installation of monitoring wells MW-5, MW-6, MW-7, and MW-8 and were analyzed for metals and VOCs using EPA Methods 6020 and EPA Method 8260B, respectively.

Results of the July/August 2006 sampling event indicated that five of the nine wells had concentrations of at least one compound that exceeded their respective EPA maximum contaminant level (MCL) or California Regional Water Quality Control Board – San Francisco Bay Region (CRWQCB-SF) Environmental Screening Levels (ESLs) for groundwater that is a current or potential source of drinking water (BSK, 2007).

In 2007 and 2008, SGI conducted soil and groundwater investigations on the Site. These investigations included the investigation of both shallow groundwater (less than 30 feet below ground surface [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 3) is impacted with chlorinated VOCs, including 1,1,1-TCA, 1,1-dichloroethane (1,1-DCA), 1,1-dichloroethene (1,1-DCE), chloroethane, cis and trans 1,2-dichloroethene (1,2-DCE), and vinyl chloride. Shallow groundwater in the vicinity of the Former Three 10,000 Gallon USTs Area (located in the vicinity of well MW-9 and downgradient of the three former 10,000 gallon USTs) is impacted with petroleum fuels (TPH) including BTEX, TPHg, and TPHd. Of the compounds detected, only vinyl chloride exceeded its respective ESL for vapor intrusion from groundwater into indoor air under the commercial land use scenario. Results of the soil vapor analysis indicated that two soil gas samples had ESL exceedences for indoor air vapor intrusion for vinyl chloride and tetrachloroethene (PCE) under the commercial land use scenario. In addition, two soil gas samples had ESL exceedences for indoor air vapor intrusion for benzene and ethylbenzene (one location) under the commercial land use scenario. Further details can be found in SGI's reports titled, "Site Investigation Report" and "Additional Site Investigation Report" (SGI 2008a; SGI 2008b).

On November 4, 2008, ACEH submitted a letter to AB&I stating that "the mass of residual fuel hydrocarbons present below the water table constitutes on ongoing source of groundwater contamination" in the area of the former three 10,000-gallon USTs. Therefore, ACEH requested that AB&I "implement cleanup to reduce the mass of residual fuel hydrocarbons in the source area." In addition, ACEH expressed concern regarding the apparent recalcitrance of chlorinated VOCs in groundwater, associated with releases from the former 8,000-gallon mineral spirits/1,1,1-TCA UST, to further breakdown, which could promote the accumulation of vinyl chloride. To address these issues, ACEH requested that AB&I submit work plans to conduct pilot test studies of remediation technologies to remediate chlorinated VOCs associated with releases from the former 8,000-gallon mineral spirits/1,1,1-TCA UST and petroleum hydrocarbons in the area of the former three 10,000-gallon USTs (ACEH 2008).

On March 26, 2009, ACEH approved SGI's work plan titled, "Work Plan for Enhanced Anaerobic Biodegradation Pilot Study – Parking Lot Area and Former 8,000-Gallon Mineral Spirits/1,1,1-TCA UST" with the following comments (ACEH 2009):

- "The proposed short-term cleanup goal for vinyl chloride of 10 micrograms per liter (µg/L), which is based on the vapor intrusion to indoor air pathway, is acceptable."
- For all other chemicals, with the exception of vinyl chloride, ACEH defers comment or approval of the short-term clean-up goals at this time.

2.2 Hydrogeological Setting

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

The Site is underlain by a mixture of sandy/silty clay to a depth of at least 20-feet below ground surface (bgs). Groundwater has been encountered in borings and excavations at depths ranging from 8 to 12-feet bgs at the Site. Based on groundwater monitoring data from on-site monitoring wells for the December 2008 sampling event, groundwater flows to the northwest at a gradient of 0.006 feet per foot (ft/ft; SGI 2009).

Based on the Water Quality Control Plan for the San Francisco Bay Basin (Basin Plan) (RWQCB, 1995), groundwater beneath the site is part of the East Bay Plain basin, which has beneficial uses for municipal and domestic drinking water supply, industrial process and service water supply, and agricultural water supply. That said, East Bay Municipal Utility District (EBMUD) provides water for these uses to the site and vicinity from Sierra-fed surface-water sources. Development of the shallow water-bearing zones beneath the site for beneficial uses is remote due to uneconomically low, sustainable well yields, and the presence of regional contamination (e.g., coliform from leaking sanitary sewer lines, unrelated chemical plumes), and presence of more productive water-bearing zones at depth (RWQCB, 1999). In addition, State regulations require sealing of at least the upper 50 feet of subsurface for public/industrial water supply wells (Department of Water Resources, 1991).

3.0 SEMI-ANNUAL MONITORING ACTIVITIES

Sampling of all nine wells (MW-1, MW-2R, and MW-3 through MW-9) was conducted on May 21, and May 22, 2009 as part of the May 2009 semi-annual monitoring event and for the purpose of collecting baseline concentrations from select wells in preparation for EAB injection activities. Monitoring activities included water level gauging and groundwater sampling.

3.1 Monitoring Well Inspection and Gauging

Upon arrival at the Site, all nine wells (MW-1, MW-2R, and MW-3 through MW-9) were located, inspected, and judged to be secure and in good condition. The wells were then gauged for depth to water and total well depth using an electronic water level meter. The water level meter was properly decontaminated between successive wells. Well gauging data are provided in Table 1.

3.2 Groundwater Sampling

Prior to sampling, the wells were purged using low-flow (i.e., low stress) procedures. Purging and sampling was performed using a peristaltic pump with dedicated tubing. Flow rates were generally maintained in the range of 100-200 milliliters per minute. During purging, water quality parameters including pH, temperature, electric conductivity (EC), oxidation-reduction potential (ORP), and dissolved oxygen (DO) were monitored to ensure that groundwater representative of the aquifer was entering the well. Convergence of these parameters on successive measurements was used as an indicator that the wells had been adequately purged. Copies of the Monitoring Well Purging/Sampling Field Forms are included in Appendix A.

All nine wells were sampled during the May 2009 semi-annual monitoring event. Groundwater samples were collected in laboratory-supplied containers, appropriate for the specified analysis. All containers were capped, labeled, placed on ice, and transported under chain-of-custody to Advanced Technology Laboratories (ATL), located in Signal Hill, California, for analysis of VOCs using EPA Method 8260B and TPHg and TPHd using EPA Method 8015M. In addition, samples collected from wells MW-2R, MW-3, MW-5, MW-6, and MW-8 were analyzed for total organic carbon (TOC) using method SM5310B and methane, ethane, and ethene using method RSK-175. A field duplicate sample was collected from MW-8. An equipment blank and trip blank, analyzed for VOCs as a quality control measure, were also submitted to ATL. A copy of the laboratory analytical report is included as Appendix B.

3.3 Decontamination and Disposal Procedures

All non-dedicated or non-disposable sampling equipment was decontaminated using a triple-rinse method consisting of successive rinses of Alconox soap and de-ionized water. Rinsate and purge water were staged on-site in properly labeled Department of Transportation approved 55-gallon drums pending waste characterization and appropriate disposal.

3.4 May 2009 Semi-Annual Monitoring Results

3.4.1 Groundwater Flow

Groundwater elevation measurements were calculated by measuring the depth to water in the wells relative to the top of the well casing then subtracting the depth to water from the elevation of the well. Groundwater elevations in wells during the May 2009 semi-annual monitoring event ranged from 0.60 feet above mean sea level (msl) in well MW-6 to 2.39 feet above msl in well MW-7 (Table 1). As shown on Figure 3, estimated groundwater flow direction during the semi-annual monitoring event was generally to the north/northwest at a hydraulic gradient of approximately 0.0019 feet/foot. The groundwater flow direction and gradient are generally consistent with past monitoring events. On average, groundwater elevations in all wells have increased by a foot or more relative to the monitoring event conducted in December 2008.

3.4.2 Groundwater Analytical Results

Concentrations of chlorinated VOCs and TPH detected during the May 2009 semi-annual monitoring event were generally within historic ranges. Wells MW-8 and MW-9 continue to contain the highest concentrations of chlorinated VOCs and TPH, respectively. Wells MW-4, MW-6, and MW-7 did not have concentrations of any compound above laboratory practical quantitation limits (PQLs). A summary of analytical results is included in Table 2. A summary of historical concentrations is included as Appendix C.

4.0 ENHANCED ANAEROBIC BIODEGRADATION ACTIVITIES

Following the collection of baseline samples during the May 2009 semi-annual monitoring event, injection activities were commenced in June 2009 as part of the EAB pilot study. The primary purpose of the pilot study was to evaluate the ability to reduce the concentration of chlorinated VOCs (i.e., 1,1,1-TCA, 1,1-DCA, 1,1-DCE, cis and trans 1,2-DCE, vinyl chloride, and chloroethane) in the Parking Lot Area through EAB. EAB was promoted through the in-situ addition of an emulsified oil substrate (EOS®), a carbon-donating substance.

4.1 Prefield Activities

Prior to field activities, a soil-boring permit was obtained from Alameda County Public Works Department. In addition, underground service alert (USA) was notified at least 48 hours prior to the commencement of field activities.

4.2 EAB Field Activities

On June 4, 2009, (prior to EAB injection activities), a grab groundwater sample (SB-52-GW20) was collected approximately 40 feet southeast of well MW-8 (Figure 3) to evaluate groundwater conditions in the proposed area of upgradient EAB injection locations. The sample was collected between 16 to 20 feet below ground surface (bgs) using a hydropunch sampler. One groundwater sample was collected and submitted to Test America Laboratories (TAL), located in Pleasanton, California and analyzed for VOCs using EPA Method 8260B. Results from the analysis indicated that no chlorinated VOCs were detected at concentrations equal to, or above, laboratory PQLs (Table 3). Based on these results, final EAB injection locations were revised as shown on Figure 4 and described below.

On June 4, 5, 8, and 9, 2009, 15 injections (PL-1 through PL-15) were advanced in the Parking Lot Area. Of the 15 injections, 10 were advanced in the area upgradient of MW-8 on 10-foot centers, and five were advanced in the area upgradient of MW-3 on 15-foot centers (Figure 4). Vironex, Inc., a licensed drilling contractor, was contracted to perform the injections. Each point consisted of a two-inch diameter stainless steel casing driven into the subsurface via a direct-push-type rig operated by qualified and experienced personnel. Hollow sections of steel casing were added and advanced until the designed injection depth(s) were reached. The injections were conducted using a 'bottom-up' injection approach starting at a depth of 20 feet bgs and ending at a depth of five feet bgs. After the hollow steel rods were driven to the desired injection depth, the points were connected to the EOS® pumping and injection equipment. Flow rates for the injections were maintained between 2 to 7 gallons per minute (gpm) at pressure that did not exceed 50 pounds per square inch (psi). Injections were conducted at a rate of approximately 24.3 gallons per foot for a total of 365 gallons of EOS® mixture injected into each location.

Each EOS® mixture batch consisted of 55-gallons (one drum) of EOS® and 310-gallons of water. Field injection forms are included as Appendix D.

4.3 Equipment Decontamination

Soil sampling equipment, such as small tools and disposable gloves, were decontaminated or disposed of after each use. The decontamination procedure consisted of:

- Wash in a phosphate-free soap and water mixture;
- Rinse thoroughly in distilled water following washing, and
- Final rinse using distilled water.

Decontamination of larger drilling equipment was conducted using a steam cleaner supplied by subcontractor selected for injection work.

4.4 Waste Management

Soil cuttings and decon water generated during the injection activities was stored on Site in properly labeled containers pending proper disposal.

4.5 Effectiveness Monitoring

To monitor the effectiveness of the EAB injection activities, groundwater samples were collected to assess reduction of chlorinated VOC concentrations and changes in other natural attenuation indicator parameters (e.g., TOC, methane, ethane, and ethene). Prior to the injection event, baseline samples were collected from wells MW-2R, MW-3, MW-5, MW-6, and MW-8 as part of the May 2009 semi-annual monitoring event. Following the injection event, post-injection samples were collected from wells MW-3 and MW-8 on July 1, August 7, and September 10, 2009. Baseline and post-injection groundwater samples were analyzed for the following:

- Chlorinated VOCs using EPA Method 8260B,
- TOC using EPA Method 415.1, and
- Methane, ethane, and ethene concentrations using method RSK-175.

In addition, field measurements were taken for DO, water temperature, pH, EC, and ORP. Groundwater monitoring wells were sampled in accordance with the procedures and methodologies outlined in SGI's work plan titled, "Revised Site Investigation Work Plan", dated September 17, 2007 (SGI 2007).

4.6 EAB Monitoring Results

Wells MW-3 and MW-8 were sampled to monitor the effectiveness of EAB injection activities. Both wells are located directly downgradient of EAB injection locations, and therefore were most reflective of groundwater conditions. Results for each sampling event are discussed below. Copies of the laboratory analytical reports are included as Appendix B and summarized in Table 3.

4.6.1 Pre-Injection Baseline Sample Results – May 21, 2009

MW-3

Concentrations of chlorinated VOCs detected during the May 2009 sampling event were generally within historic ranges with the exception of 1,1-DCE. Concentrations of 1,1-DCE decreased from a concentration of 2,000 µg/L detected during the December 2008 sampling event, to 1,000 µg/L (May 2009). 1,1-DCE continues to be the highest compound detected, followed by 1,1-DCA (220 µg/L), cis-1,2-DCE (10 µg/L), vinyl chloride (8.4 µg/L), and trans-1,2-DCE (1.2 µg/L).

Methane and ethane were detected at concentrations of 300 and 16 µg/L, respectively. Ethene was not detected at or above the laboratory practical quantitation limit (PQL) of 3 µg/L. TOC was detected at a concentration of 7.4 milligrams per liter (mg/L).

MW-8

Concentrations of chlorinated VOCs detected during the May 2009 sampling event were generally within historic ranges and continue to be the highest concentration of chlorinated VOCs at the site. 1,1,1-TCA and 1,1-DCE were detected at the highest concentrations, both at a concentration of 1,900 µg/L. Other chlorinated VOCs detected include 1,1-DCA (1,500 µg/L), chloroethane (320 µg/), and vinyl chloride (16 µg/L).

Methane, ethane, and ethene were detected at concentrations of 1,100, 19, and 9.6 µg/L, respectively. TOC was not detected at or above the laboratory PQL of 3 mg/L.

4.6.2 Post-Injection Sample Results – July 1, 2009

MW-3

Concentrations of chlorinated VOCs detected during the July 2009 sampling event were generally similar to concentrations detected during the May 2009 sampling event with the exception of 1,1-DCA and 1,1-DCE. Concentrations of 1,1-DCA decreased from 220 µg/L (May 2009) to 160 µg/L. Concentrations of 1,1-DCE decreased from 1,000 µg/L (May 2009) to 620 µg/L (July 2009).

Methane concentrations increased slightly from 300 to 450 µg/L and ethane concentrations decreased from 19 to 16 µg/L. Ethene was not detected at or above laboratory PQLs. TOC concentrations increased from 7.4 to 320 mg/L.

MW-8

Chlorinated VOC concentrations decreased slightly for all detected compounds from the May 2009 sampling event with the exception of chloroethane. Chloroethane concentrations increased from 320 µg/L (May 2009) to 350 µg/L.

Methane, ethane, and ethene concentrations remained fairly similar to concentrations detected during the May 2009 sampling event with slight decreases in methane concentrations (1,100 to 1,400 µg/L). TOC concentrations increased from PQLs to 260 mg/L.

4.6.3 Post-Injection Sample Results – August 7, 2009

MW-3

Reductions in all chlorinated VOCs, with the exception of chloroethane and vinyl chloride, were observed during the August 2009 sampling event. Concentrations of 1,1-DCA, 1,1-DCE, and cis-1,2-DCE decreased from 160, 620, and 7.5 µg/L, respectively (July 2009) to 110, 94, and 1.2 µg/L, respectively. Chloroethane and vinyl chloride concentrations increased from less than PQLs and 6.7 µg/L, respectively (July 2009) to 61 and 29 µg/L, respectively.

Methane and ethane concentrations decreased during this sampling event to 63 and 2.7 µg/L, respectively. Ethene concentrations increased to 16 µg/L. TOC concentrations decreased from 320 mg/L to 260 mg/L.

MW-8

Overall concentrations of chlorinated VOCs increased slightly compared to concentrations reported during the July 2009 sampling event with the exception of vinyl chloride. Concentrations of chloroethane, 1,1-DCA, 1,1-DCE, and 1,1,1-TCA increased slightly while vinyl chloride concentrations decreased.

Methane and ethane concentrations decreased to 460 and 5.9 µg/L, respectively, and ethene concentrations decreased to below PQLs. TOC concentrations decreased from 260 (July 2009) to 200 mg/L.

4.6.4 Post-Injection Sample Results – September 10, 2009

MW-3

Concentrations of all chlorinated VOCs decreased during the September 2009 sampling event with the exception of chloroethane. 1,1-DCA, 1,1-DCE, cis-1,2-DCE, and vinyl chloride concentrations decreased from 110, 94, 7.5, and 29 µg/L, respectively (August 2009) to 5.6, 11, 0.20, and 3.6 µg/L, respectively. Chloroethane concentrations increased from 61 µg/L (August 2009) to 150 µg/L.

Methane concentrations increased sharply compared to concentrations detected during the August 2009 sampling event, while ethane and ethene concentrations remained fairly similar to previous sampling events. Methane concentrations increased from 63 µg/L to 6,000 µg/L. Ethane and ethene concentrations increased from 2.7 and 16 µg/L, respectively (August 2009) to 4.1 and 41 µg/L, respectively. TOC concentrations decreased from 260 mg/L (August 2009) to 170 mg/L.

MW-8

Concentrations of all chlorinated VOC decreased during the September 2009 sampling event with the exception of vinyl chloride and 1,1-DCA. 1,1,1-TCA, 1,1-DCE, and chloroethane concentrations decreased from 1,700, 1,300, and 370 µg/L, respectively (August 2009) to 45, 1,100, and 340 µg/L, respectively. Vinyl chloride and 1,1-DCA concentrations increased from 9.6 and 1,600 µg/L, respectively (August 2009) to 50 and 2,600 µg/L, respectively.

Methane, ethane, and ethene concentrations remain fairly similar to concentrations detected during the August 2009 sampling event. TOC concentrations decreased from 200 mg/L (August 2009) to 160 µg/L.

5.0 EVALUATION OF PILOT STUDY TEST

The performance objectives for the EAB program were as follows:

- Ensure that EAB is compatible with site-specific conditions.
- Evaluate effectiveness of EAB injections.
- Evaluate longevity of EAB Injections.

Ensure that EAB is Compatible with Site-Specific Conditions

This objective seeks to ensure the sufficient quantities of EOS® could be injected based on site lithology. During injection activities, approximately 365-gallons of EOS® mixture were injected into each of the 15 locations. EOS® was delivered at a flow rate that varied from 2 to 7 gpm with an approximate distribution of 24.3 gallons per foot over a 15-foot interval per location. Injection pressures never exceeded 50 pounds per square inch (psi) and were averaging 25 to 30 psi throughout the injection event. Generally, injection pressures were the highest during deep injections (greater than 15 feet bgs) and dropped as the injection neared the surface. No "daylighting" of EOS® was observed at any of the locations and the target volume (365-gallons) of EOS® mixture was delivered at each injection location. Overall, no significant problems were encountered indicating that injection activities were compatible with site conditions.

Evaluate Effectiveness of EAB injections

Carbon-donating substances are typically food-grade vegetable oils and work by acting as a food source to promote microbial activity and growth. In the subsurface, the oil slowly degrades and provides a long-term source of dissolved organic carbon for microbial cell growth. As the carbon source is consumed, molecular hydrogen is produced, which serves as an electron donor for reductive dechlorination of chlorinated VOCs. Under anaerobic (oxygen deficient) conditions, the organic contaminants will be ultimately metabolized to ethane, ethene, limited amounts of carbon dioxide, and trace amounts of hydrogen. Illustrations of the pathways are included below.

1,1,1-TCA → 1,1-DCA → Chloroethane → Ethane/Methane

1,1,1-TCA → 1,1-DCE → Vinyl Chloride → Ethene

To evaluate the effectiveness of EAB activities, concentrations of chlorinated VOCs were monitored for a decrease in parent product concentrations (1,1,1-TCA) along with a subsequent increase in the daughter product concentrations (1,1-DCA, 1,1-DCE, vinyl chloride). In order to determine whether the pathway is moving towards completion, an increase in methane, ethane, or ethene is expected.

MW-3

Data collected during the four-month monitoring program indicates that EAB is effective and is actively reducing concentrations of chlorinated VOCs in groundwater in the area of well MW-3. Concentrations of 1,1-DCA, 1,1-DCE, and vinyl chloride in well MW-3 have been reduced from highs of 220, 2,000, and 29 µg/L (Appendix C), respectively to 5.6, 11, and 3.6 µg/L, respectively. Furthermore, methane concentrations have increased from 300 µg/L (May 2009) to 6,000 µg/L (September 2009) indicating that the reductive dechlorination pathway is moving towards completion. A graph illustrating chlorinated VOC and methane concentrations for well MW-3 is included as Figure 5.

MW-8

Data collected during the four-month monitoring program indicates that EAB is effective and is actively reducing concentrations of chlorinated VOCs in groundwater in the area of well MW-8. Concentrations of the primary contaminant (1,1,1-TCA) have been reduced from 1,900 µg/L (May 2009) to 45 µg/L (September 2009). As a result of the breakdown of 1,1,1-TCA, the concentrations of daughter products (1,1-DCA and vinyl chloride) have increased (Table 3). Geochemical data collected during the September 2009 sampling event suggest that reductive dechlorination is occurring. During the September 2009 sampling event, DO concentrations were strongly anaerobic (less than 2 mg/L) and the ORP was negative indicating that anaerobic and reductive conditions were present. In addition, TOC concentrations were elevated (greater than 100 mg/L). All three factors suggest that conditions are favorable for the continued breakdown of chlorinated VOCs via reductive dechlorination, and it is expected that elevated concentrations of 1,1-DCA and vinyl chloride will decrease over time, similar to what was observed in well MW-3. A graph illustrating chlorinated VOC and methane concentrations for well MW-8 is included as Figure 6.

Evaluate Longevity of EAB Injections

This objective seeks to ensure that EOS® has sufficient longevity to treat the required contamination within the target area. Baseline concentrations of TOC ranged from less than laboratory PQLs (wells MW-2R, MW-5, and MW-8) to 7.4 mg/L (well MW-3). Following the injection of EOS®, TOC concentrations increased to 320 and 260 mg/L in wells MW-3 and MW-8, respectively. Three months after the injection event, TOC concentrations remain greater than 150 mg/L. Additional TOC analyses will be performed during the December 2009 sampling event for wells MW-3 and MW-8 to determine if adequate carbon remains within the system.

6.0 CONCLUSIONS

Semi-annual monitoring conducted in May 2009 indicates that concentrations of chlorinated VOCs and TPH at the Site were similar to historical concentrations. In June 2009, an EAB pilot study was conducted in the Parking Lot Area to promote the breakdown of chlorinated VOCs via reductive dechlorination through addition of the carbon-donating substance, EOS®. The pilot study included the injection of an EOS® mixture into a total of 15 locations. Ten points were located upgradient of well MW-8 and five points were located upgradient of MW-3. Groundwater was then monitored from each well on a monthly basis for three months to evaluate the effectiveness of EAB activities. Following the three months of monitoring, data indicates that the EAB injection activities were successful in reducing chlorinated VOC concentrations. Chlorinated VOC concentrations in well MW-3 have decreased to concentrations that are below the approved short-term cleanup goals. In well MW-8, the concentration of 1,1,1-TCA was reduced to 45 µg/L, which resulted in an increase of 1,1-DCA and vinyl chloride concentrations. However, TOC concentrations and geochemical parameters indicate that conditions are favorable for the continued reduction of chlorinated VOCs in the vicinity of MW-8, similar to what was observed in well MW-3. Therefore, it is expected that concentrations of both 1,1-DCA and vinyl chloride will decrease over time.

EAB activities in the Parking Lot Area have been effective in reducing chlorinated VOC in groundwater in the vicinity of wells MW-3 and MW-8, both of which have had the highest concentrations of chlorinated VOCs on the Site. Groundwater conditions in the vicinity of both wells suggest that reductive dechlorination is continuing to occur.

The next groundwater sampling event scheduled for December 2009 will assist in confirming that reductive dechlorination is continuing to occur. A final evaluation of EAB effectiveness will be presented following the December 2009 sampling event.

7.0 REFERENCES

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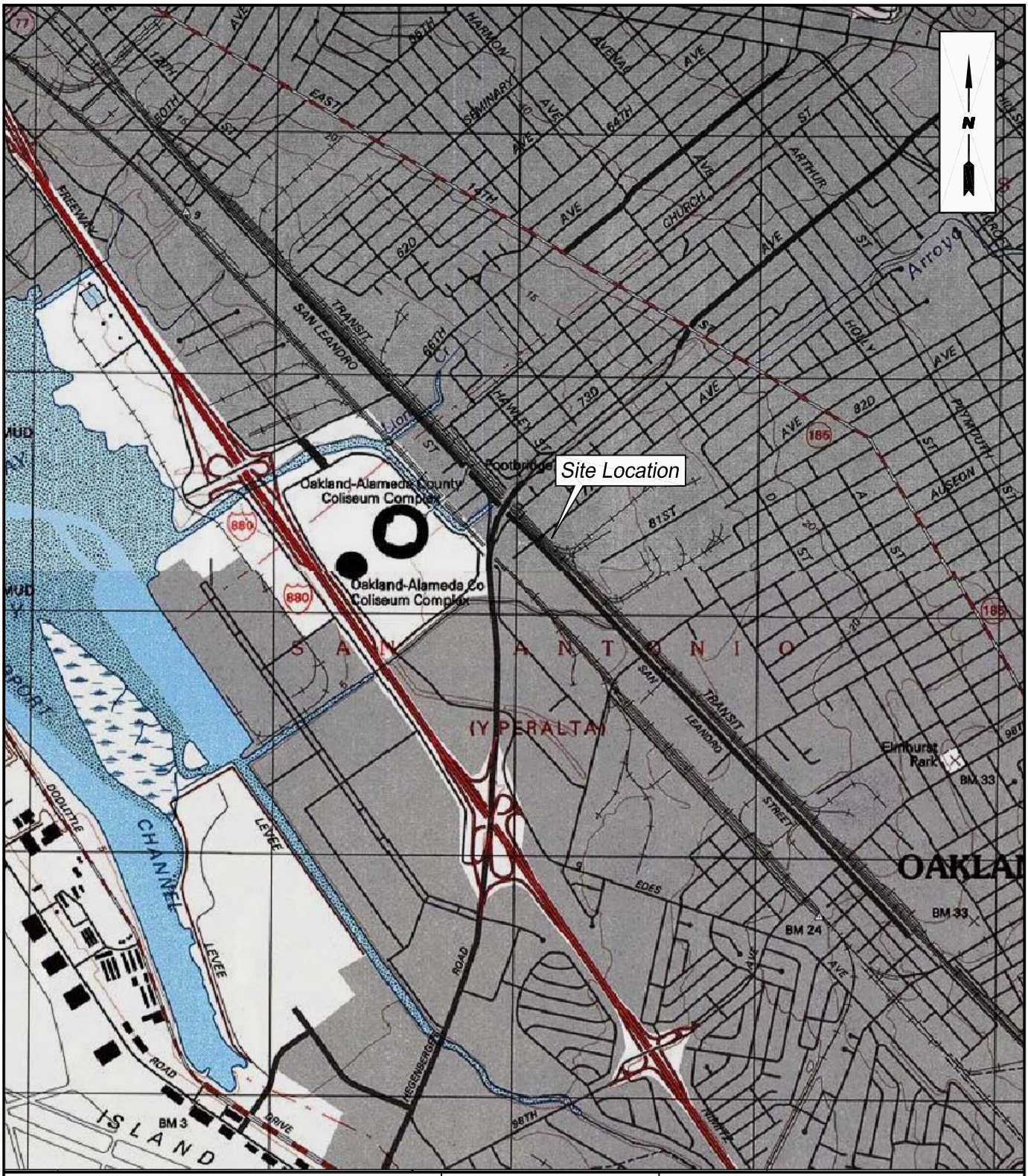
FIGURES



THE SOURCE GROUP, INC.
environmental

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

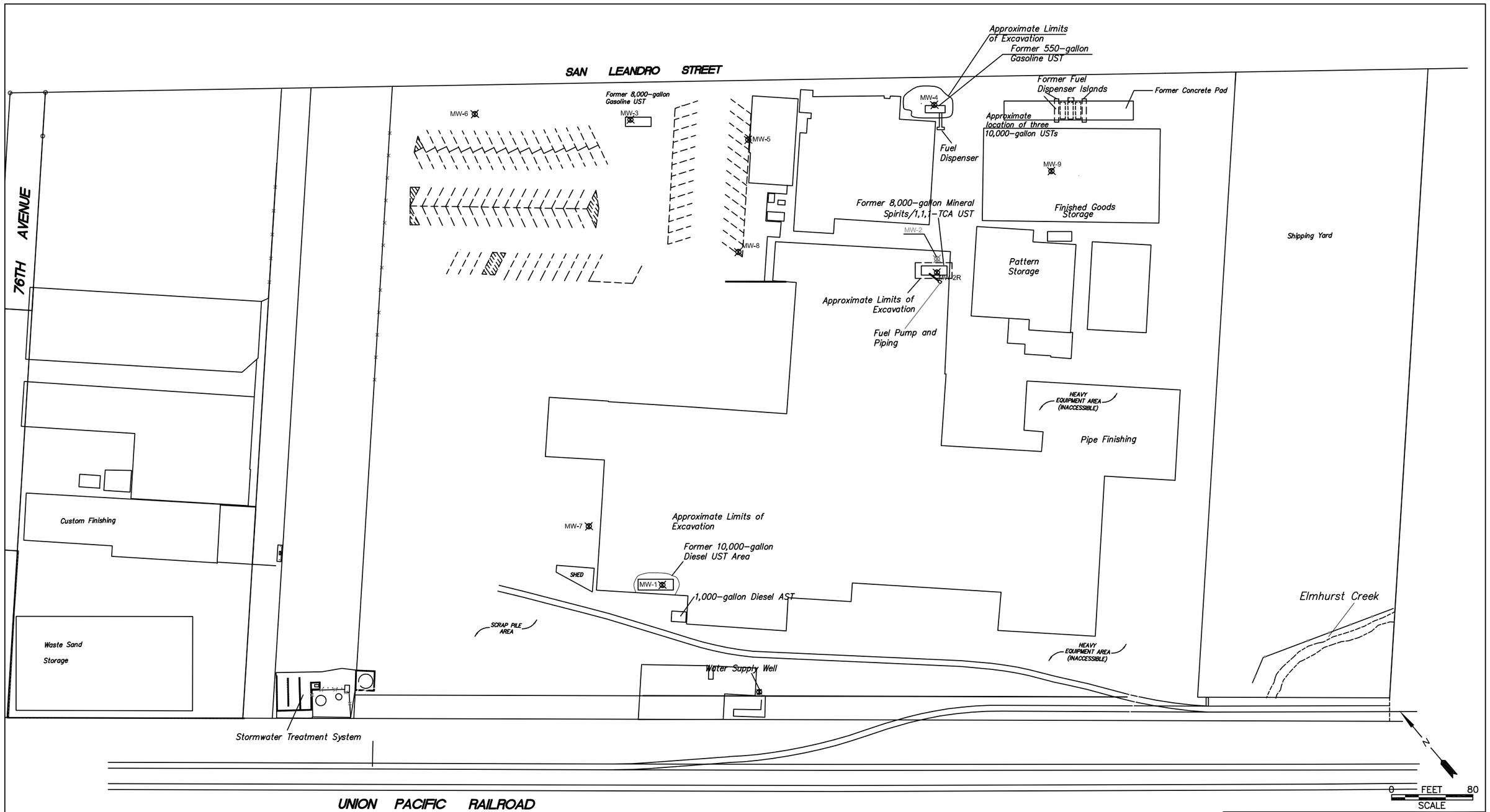
SITE LOCATION MAP

CLIENT: AB&I FOUNDRY

DATE: 6/27/07

LOCATION: 7825 San Leandro Street
Oakland, California

FIGURE: 1



Legend

MW-1	Existing Monitoring Well Location (BSK, 1993, 2006)
MW-1	Abandoned Monitoring Well (BSK, 2006)
UST	Underground Storage Tank
1,1,1-TCA	1,1,1-trichloroethane

SITE PLAN

AB&I FOUNDRY
7825 SAN LEANDRO STREET
OAKLAND, CALIFORNIA

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

Date: 1/19/08

Figure: 2

All figures.dwg

SAN LEANDRO STREET

76TH AVENUE

0.5

1.0

1.25

1.50

2.0

MW-6 (0.60)

(1.32) MW-3

Former 8,000–gallon Gasoline UST

(1.40) MW-5

(1.81) MW-4

Approximate Limits of Excavation

Former 550–gallon Gasoline UST

Former Fuel Dispenser Islands

Former Concrete Pad

Approximate location of three 10,000–gallon USTs

Fuel Dispenser

MW-9 (2.01)

Finished Goods Storage

Shipping Yard

MW-2

MW-8 (1.60)

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

Approximate Limits of Excavation

MW-12R (1.73)

Pattern Storage

Fuel Pump and Piping

HEAVY EQUIPMENT AREA (INACCESSIBLE)

Pipe Finishing

Custom Finishing

MW-7 (2.39)

Approximate Limits of Excavation

Former 10,000–gallon Diesel UST Area

SHED

MW-1 (1.78)

1,000–gallon Diesel AST

Elmhurst Creek

SCRAP PILE AREA

HEAVY EQUIPMENT AREA (INACCESSIBLE)

Waste Sand Storage

Water Supply Well

Stormwater Treatment System

UNION PACIFIC RAILROAD

N

0 FEET 80

SCALE

Legend

MW–7	Existing Monitoring Well Location (BSK, 1993, 2006)
MW–2	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

POTENTOMETRIC SURFACE MAP - May 21, 2009

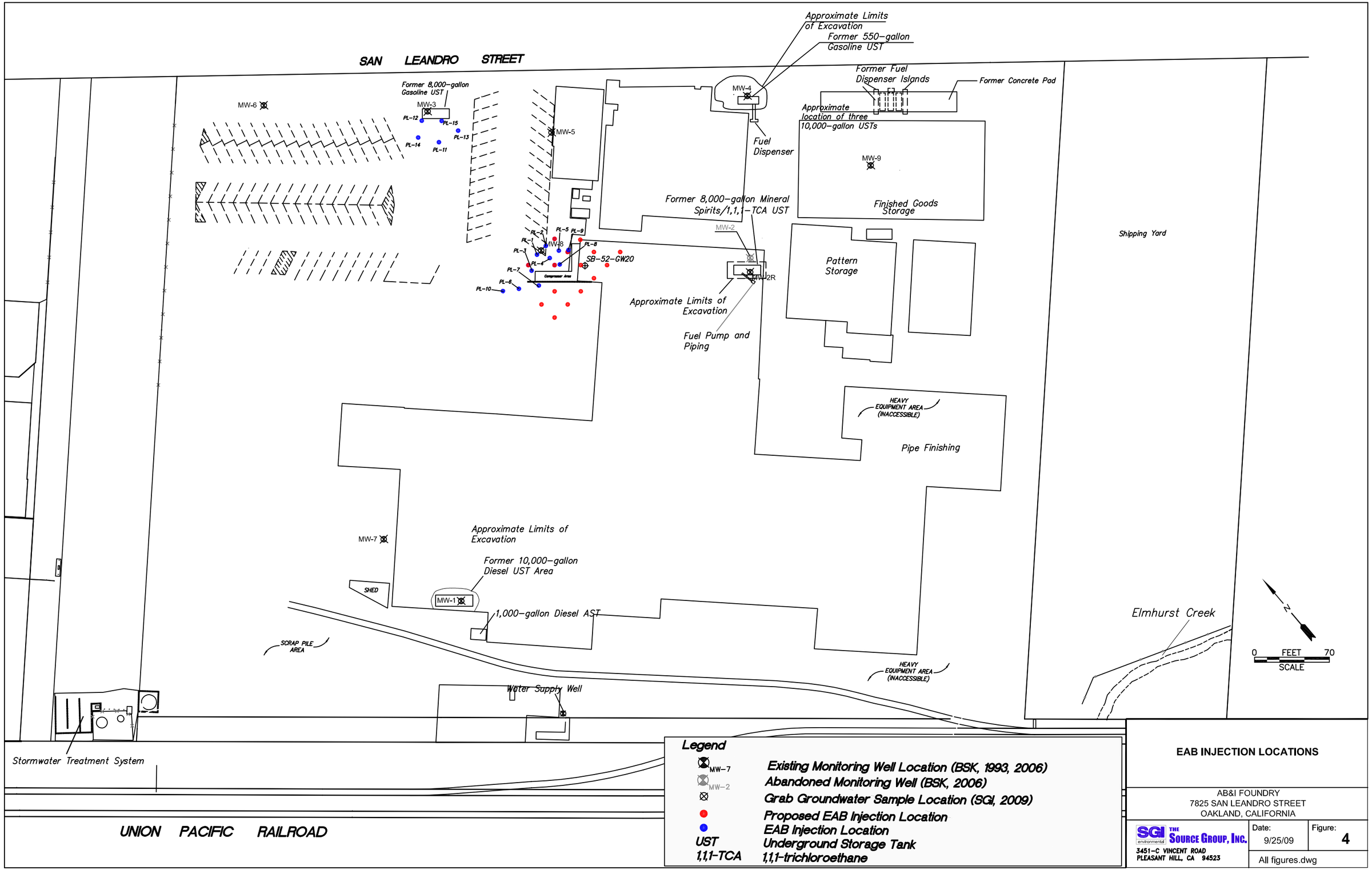
AB&I FOUNDRY
7825 SAN LEANDRO STREET
OAKLAND, CALIFORNIA

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

Date: 9/25/09

Figure: 3

All figures.dwg



EAB INJECTION LOCATIONS

AB&I FOUNDRY
7825 SAN LEANDRO STREET
OAKLAND, CALIFORNIA

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

Date: 9/25/09

Figure: 4

All figures.dwg

Figure 5
Chlorinated VOC and Methane Concentrations in MW-3

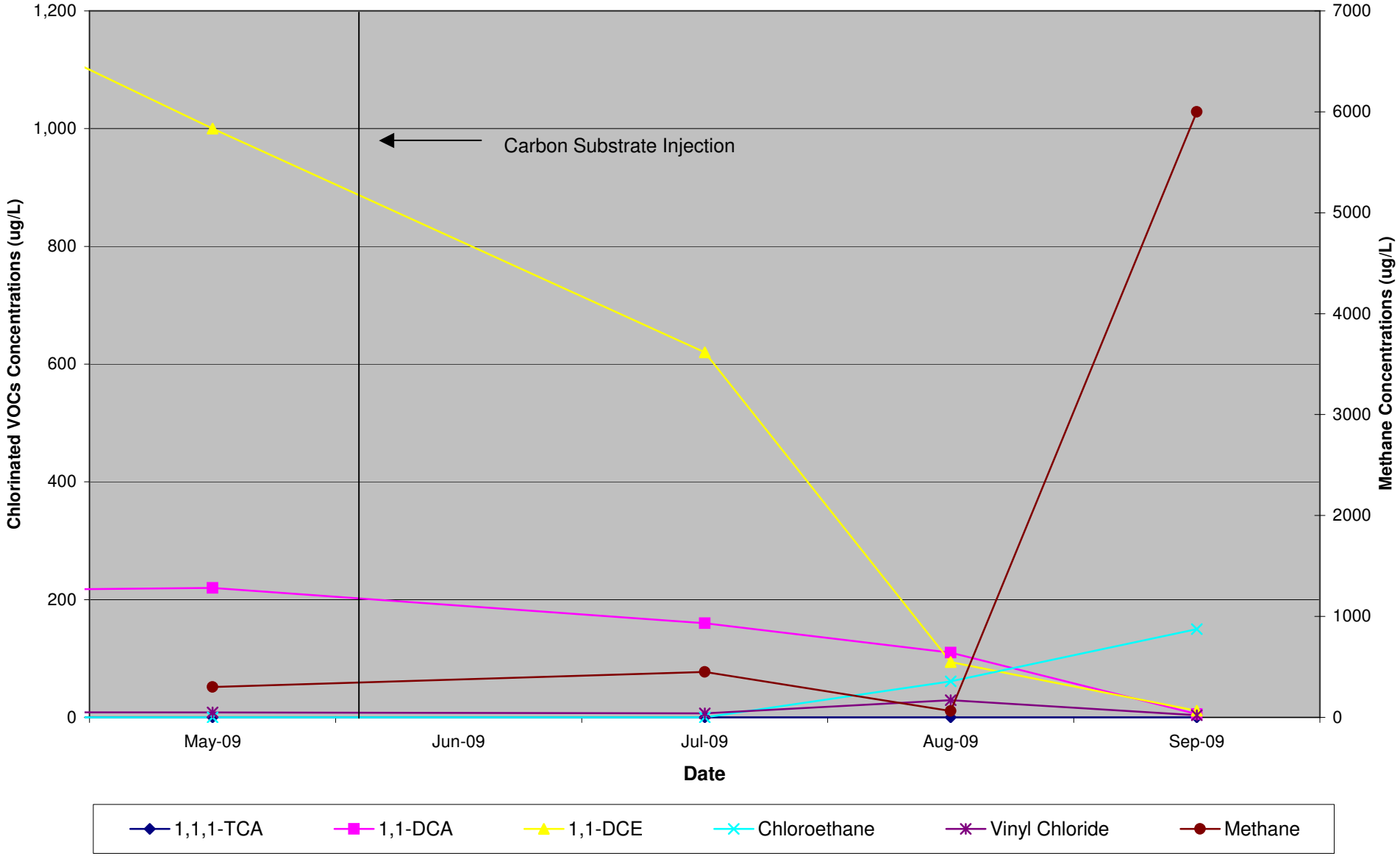
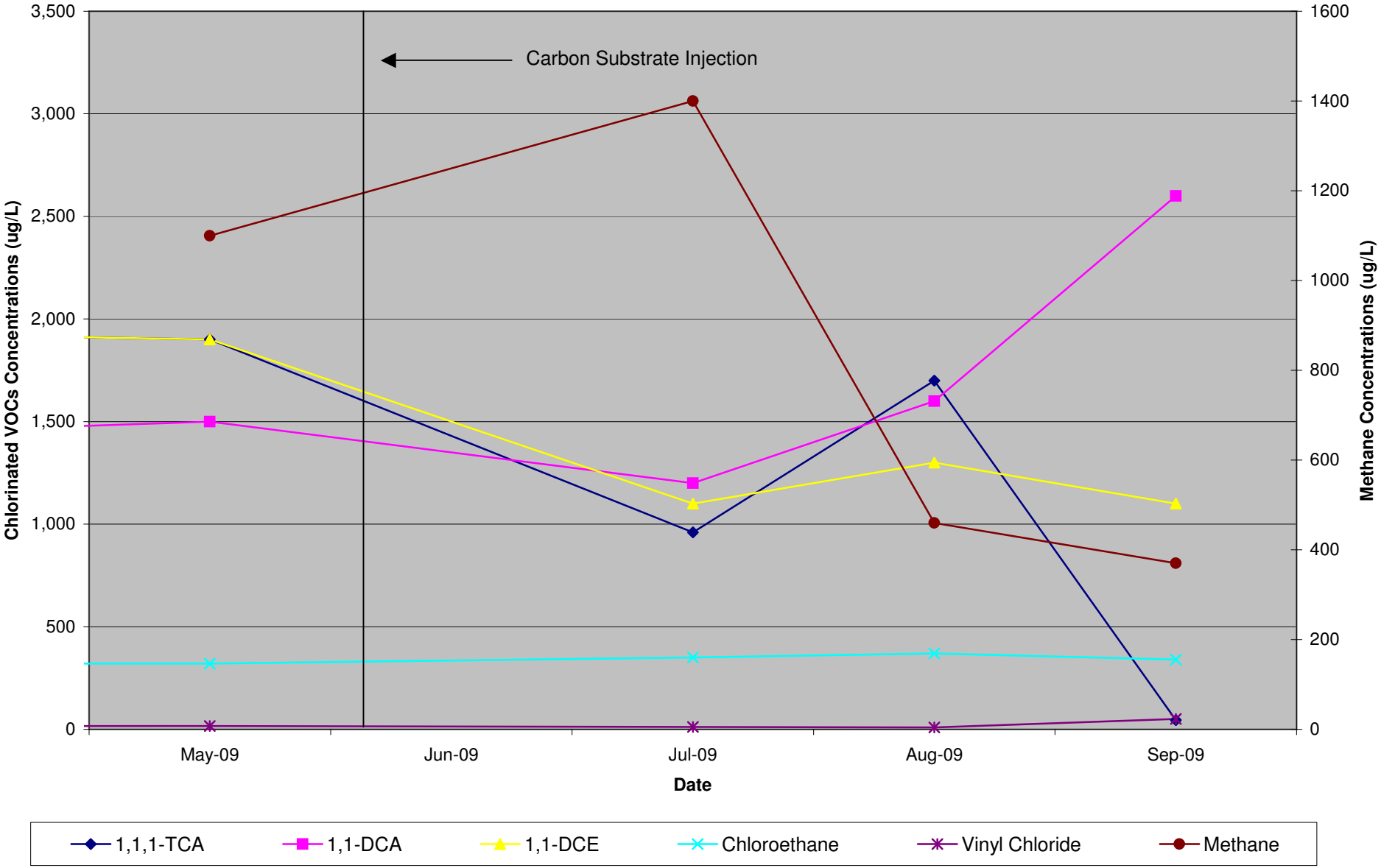


Figure 6
Chlorinated VOC and Methane Concentrations in MW-8



TABLES

Table 1
Well Construction Details and Groundwater Elevation May 2009
AB&I Foundry
7825 San Leandro Street
Oakland, California

Well Number	Total Depth[1]	Solid Casing[2]	Screened Interval[3]	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	5.93	1.78
MW-2	17	0-8	8-17	NM	NM	Destroyed
MW-2R	20.5	0-5	5-20	7.49	3.80	1.73
MW-3	19.5	0-9	9-19	9.90	6.68	1.32
MW-4	26.5	0-10	10-25	10.49	6.78	1.81
MW-5	20.5	0-5	5-20	10.92	7.59	1.40
MW-6	20.5	0-5	5-20	10.19	7.69	0.60
MW-7	20.5	0-5	5-20	10.61	6.31	2.39
MW-8	20.5	0-5	5-20	11.19	7.70	1.60
MW-9	20.5	0-5	5-20	7.95	4.06	2.01

Notes:

1) All values describe construction details in 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 May 21, 2009
6) Groundwater elevation in feet above mean sea level (msl)

Table 2
Summary of Semi-Annual Groundwater Monitoring Results - May 2009
AB&I Foundry
7825 San Leandro Street
Oakland, California

Sample ID	Well Screen Depth	Date	TPHg	TPHd	1,1 - DCA	1,1 - DCE	trans 1,2-DCE	cis 1,2-DCE	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Benzene	Chloroethane	Ethylbenzene	1,2,3-Trichloropropane	Isopropylbenzene	4-Isopropyltoluene	Toluene	1,1,1-TCA	Vinyl chloride	m,p-Xylene	Naphthalene
Units	*(feet bgs)*		*(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)*
RWQCB ESLs[1]			**NE**	**NE**	**3,400**	**18,000**	**19,000**	**17,000**	**NE**	**NE**	**NE**	**1,800**	**2,700**	**170,000**	**NE**	**NE**	**NE**	**530,000**	**360,000**	**13.0**	**NE**	**11,000**
RWQCB ESLs[2]			**NE**	**NE**	**1,000**	**6,300**	**6,700**	**6,200**	**NE**	**NE**	**NE**	**540**	**820**	**170,000**	**NE**	**NE**	**NE**	**350,000**	**130,000**	**3.8**	**NE**	**3,200**
MISC																						
MW-1	5-20	5/22/2009	<50	<50	0.41	<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	<1.0	<0.50
MW-2R	5-20	5/22/2009	110	<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	<0.50	<1.0	<0.50
MW-3	5-20	5/21/2009	550	<50	220	1,000	1.2	10	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	1.8	<2.5	8.4	<5.0	<2.5
MW-4	5-20	5/21/2009	<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	<0.50	<1.0	<0.50
MW-5	5-20	5/21/2009	<50	<50	0.70	0.71	1.1	3.3	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
MW-6	5-20	5/21/2009	<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	<0.50	<1.0	<0.50
MW-7	5-20	5/22/2009	<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	<0.50	<1.0	<0.50
MW-8	5-20	5/21/2009	2100	<50	1,500	1,900	<5.0	<5.0	<5.0	<5.0	<5.0	2.9	320	<5.0	<5.0	5.3	<5.0	<5.0	1,900	**16**	<10	<5.0
MW-8 (D)	5-20	5/21/2009	2100	<50	1,700	2,000	<5.0	<5.0	<5.0	<5.0	<5.0	2.8	410	<5.0	<5.0	5.4	<5.0	<5.0	1,900	**16**	<10	<5.0
MW-9	5-20	5/22/2009	3500	250	<0.50	<0.50	<0.50	<0.50	2.2	26	2.4	180	<0.50	3.9	0.28	21	1.6	2.9	<0.50	<0.50	1.7	2.2

Notes:

NE	- value not established
feet bgs	- feet below ground surface
(D)	- Duplicate sample
*500	- Reported due to the presence of discrete peaks
1,1,2-TCA	- 1,1,2 -Trichloroethane
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
	- 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

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, updated May 2008, Table E-1, commercial land use scenario.

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, Table E-1, residential land use scenario.

Table 3
Enhanced Anaerobic Biodegradation Monitoring Results
AB&I Foundry
7825 San Leandro Street
Oakland, California

		Chlorinated VOCs (ug/L)							Volatile Gases (ug/L)			Carbon Substrate (mg/L)
Well/Sample ID Number	Date	Chloroethane	1,1-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1,1 Trichloroethane	Vinyl Chloride	Methane	Ethane	Ethene	TOC
MW-2R	05/22/09	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	180	<2.0	<3.0	<3.0
MW-3	05/21/09	<2.5	220	1,000	10	1.2	<2.5	8.4	300	19	<3.0	7.4
	07/01/09	<2.5	160	620	7.5	<2.5	<2.5	6.7	450	16	<3.0	320
	08/07/09	61	110	94	1.2	<0.50	<0.50	29	63	2.7	16	260
	09/10/09	150	5.6	11	0.20	0.47	<0.50	3.6	6000	4.1	41	170
MW-5	05/21/09	<0.50	0.7	0.71	3.3	1.1	<0.50	<0.50	15	<2.0	<3.0	<3.0
MW-6	05/21/09	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	5.2	<2.0	<3.0	11
MW-8	05/21/09	320	1500	1900	<5.0	<5.0	1900	16	1100	19	9.6	<3.0
Dup	05/21/09	410	1700	2000	<5.0	<5.0	1900	16	-	-	-	-
	07/01/09	350	1200	1100	<2.5	<2.5	960	11	1400	13	5.3	260
	08/07/09	370	1600	1300	<5.0	<5.0	1700	9.6	460	5.9	<3.0	200
	09/10/09	340	2600	1100	<2.5	<2.5	45	50	370	4.6	<2.0	160
SB-53-GW20	06/04/09	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-

Notes:

- Sample SB-53-GW20 collected 16-20 feet below ground surface (bgs)
mg/L - Milligrams per liter
ug/L - Micrograms per liter
<5.0 - Not detected at or above laboratory practical quantitation limit of 5.0 ug/L.
Dup - Duplicate Sample
- - Not Analyzed
TOC - Total Organic Carbon

APPENDIX A

FIELD SAMPLING SHEETS

MAY 2009

FIELD SAMPLING SHEETS

Groundwater Monitoring Well
Water Level Gauging Form
The Source Group, Inc.

PROJECT NAME: AB&I
PROJECT NO.: 01-ABI-001
TASK NO.:

DATE: 5/21/09
PERSONNEL: M. Clinton

Well I.D.	Date	Time (24 hr)	Casing Diameter (inches)	TOC (ft msl)	DTW (ft)	Total Depth (ft)	Well Location	Comments:
MW-1	5/21/09	947	2		5.93			
MW-2R		940	2		~~7.69~~ 3.80			
MW-3		952	2		6.68			
MW-4		959	2		6.78			
MW-5		1019	2		7.59			
MW-6		1401	2		7.69			
MW-7		945	2		6.31			
MW-8		1021	2		7.70			
MW-9		940	2		4.06			

Groundwater Monitoring Well
Field Sampling Form
The Source Group, Inc.

PROJECT NAME: AB&I
PROJECT NO.: 01-ABI-001
TASK NO.: _____
WELL ID: MW-1
PURGE DATE: 5/22/09
SAMPLE TIME: 1215
SAMPLE DATE: 5/22/09
PERSONNEL: M. Clark
(circle)

INITIAL DTW (ft): 5.93
DEPTH TO BOTTOM (ft): _____
WELL DIAM. (in): 2
PUMP INTAKE DEPTH (ft): _____
3 VOLUMES (gals): _____
h*3*0.064 (1.25"); h*3*0.16 (2"); h*3*0.26 (2.5"); h*3*0.38 (3"); h*3*0.65 (4"); h*3*1.5 (6")

PURGE LOG:

(check units!)

DTW	Time (24 hr)	Flow Rate (ml/min)	pH	EC (mS/cm)	Temp. (C)	Disolved Oxygen (mg/L)	REDOX (mV)	Color	Turbidity	Other Observations
6.10	1155	400	7.48	1105	16.94	0.66	-101.7	cloudy	19.5	-
6.11	1200	400	7.38	1135	16.83	0.56	-106.1	cloudy	4.7	-
6.11	1205	600	7.36	1145	16.80	0.52	-103.7	clear	1.8	-
6.13	1210	620	7.35	1147	16.81	0.50	-105.6	clear	1.1	-

Total Gallons Purged: 4.5

Purging Method: 2" Submersible Bladder Pump | 12 Volt Pump | (Peristaltic Pump) | Bailer

WELL SAMPLING:

DTW at Time of Sampling: 6.13

Sampling Method: 2" Submersible Bladder Pump | 12 Volt Pump | (Peristaltic Pump) | Bailer

SAMPLE ID: MW-1

QA/QC SAMPLING:

WAS QA/QC SAMPLE COLLECTED AFTER THIS WELL? YES / (NO)

IF SO, SAMPLE ID: _____ TYPE: Rinsate Blank Duplicate Field Blank

COMMENTS:

- Pump @ slowest speed ~ 600 ml/min

Groundwater Monitoring Well
Field Sampling Form
The Source Group, Inc.

PROJECT NAME: AB&I
PROJECT NO.: 01-ABI-001
TASK NO.: _____
WELL ID: MW-2R
PURGE DATE: 5/22/09
SAMPLE TIME: 1025
SAMPLE DATE: 5/22/09
PERSONNEL: N.C.Iton (circle)

INITIAL DTW (ft): 3.80
DEPTH TO BOTTOM (ft): _____
WELL DIAM. (in): 2
PUMP INTAKE DEPTH (ft): _____
3 VOLUMES (gals): _____
h*3*0.064 (1.25"); h*3*0.16 (2"); h*3*0.26 (2.5"); h*3*0.38 (3"); h*3*0.65 (4"); h*3*1.5 (6")

PURGE LOG:

(check units!)

DTW	Time (24 hr)	Flow Rate (ml/min)	pH	EC (mS/cm)	Temp. (C)	Disolved Oxygen (mg/L)	REDOX (mV)	Color	Turbidity	Other Observations
3.84	1004	400	7.05	1311	18.46	1.25	-106.4	cloudy	52.1	-
3.86	1009	400	6.97	1263	18.58	0.87	-131.3	cloudy	66.0	-
3.86	1014	400	6.97	1200	18.59	0.83	-137.3	"	51.2	-
3.87	1019	400	6.97	1171	18.58	0.82	-151.4	"	38.6	-
3.87	1024	400	6.98	1141	18.59	0.77	-161.0	"	25.8	-

Total Gallons Purged: 2.5

Purging Method	2" Submersible Bladder Pump	12 Volt Pump	Peristaltic Pump	Bailer

WELL SAMPLING:

DTW at Time of Sampling: 3.87

Sampling Method	2" Submersible Bladder Pump	12 Volt Pump	Peristaltic Pump	Bailer

SAMPLE ID: MW-2R

QA/QC SAMPLING:

WAS QA/QC SAMPLE COLLECTED AFTER THIS WELL? YES / NO

IF SO, SAMPLE ID: _____ TYPE: Rinsate Blank Duplicate Field Blank

COMMENTS:

- Slowest pump speed = 400 ml/min

Groundwater Monitoring Well
Field Sampling Form
The Source Group, Inc.

PROJECT NAME: AB&I
PROJECT NO.: 01-ABI-001
TASK NO.: _____
WELL ID: MW-3
PURGE DATE: 5/21/09
SAMPLE TIME: 1120
SAMPLE DATE: 5/21/09
PERSONNEL: N.C.Itan (circle)

INITIAL DTW (ft): 6.66
DEPTH TO BOTTOM (ft): _____
WELL DIAM. (in): 2
PUMP INTAKE DEPTH (ft): _____
3 VOLUMES (gals): _____
h*3*0.064 (1.25"); h*3*0.16 (2"); h*3*0.26 (2.5"); h*3*0.38 (3"); h*3*0.65 (4"); h*3*1.5 (6")

PURGE LOG:

(check units!)

DTW	Time (24 hr)	Flow Rate (ml/min)	pH	EC (mS/cm)	Temp. (C)	Disolved Oxygen (mg/L)	REDOX (mV)	Color	Turbidity	Other Observations
6.87	1045	190	7.09	2299	21.24	4.23	-16.0	[illegible]	-0.8	clear 4.5
6.87	1050	190	7.05	2307	20.98	2.72	-4.3	clear	-1.6	
6.85	1106	190	7.03	2300	20.90	1.42	-1.7	clear	-1.7	
6.85	1111	190	7.03	2299	20.94	1.52	-1.8	clear	-1.6	
6.85	1116	190	7.02	2298	20.98	1.48	-1.8	clear	-1.7	

Total Gallons Purged: 2.5

Purging Method	2" Submersible Bladder Pump	12 Volt Pump	(Peristaltic Pump)	Bailer

WELL SAMPLING:

DTW at Time of Sampling: 6.85

Sampling Method	2" Submersible Bladder Pump	12 Volt Pump	(Peristaltic Pump)	Bailer

SAMPLE ID: MW-3

QA/QC SAMPLING:

WAS QA/QC SAMPLE COLLECTED AFTER THIS WELL? YES / (NO)

IF SO, SAMPLE ID: _____ TYPE: Rinsate Blank Duplicate Field Blank

COMMENTS:

- Tubing cracked. Repaired w/ tape but still visible bubbles present.
- No bubbles in line @ 1106 parameter reading. Appears clear.

Groundwater Monitoring Well
Field Sampling Form
The Source Group, Inc.

PROJECT NAME: AB&I
PROJECT NO.: 01-ABI-001
TASK NO.: _____
WELL ID: MW-4
PURGE DATE: 5/21/09
SAMPLE TIME: 1335
SAMPLE DATE: 5/21/09
PERSONNEL: N. Clifton
(circle)

INITIAL DTW (ft): 6.77
DEPTH TO BOTTOM (ft): _____
WELL DIAM. (in): 2
PUMP INTAKE DEPTH (ft): _____
3 VOLUMES (gals): _____
h*3*0.064 (1.25"); h*3*0.16 (2"); h*3*0.26 (2.5"); h*3*0.38 (3"); h*3*0.65 (4"); h*3*1.5 (6")

PURGE LOG:

(check units!)

DTW	Time (24 hr)	Flow Rate (ml/min)	pH	EC (mS/cm)	Temp. (C)	Disolved Oxygen (mg/L)	REDOX (mV)	Color	Turbidity	Other Observations
7.35	1316	400	7.56	582	19.27	1.99	-167.3	clear	0.4	-
7.40	1323	400	7.38	584	18.70	0.54	-153.7	clear	1.1	-
7.42	1329	410	7.38	582	18.76	0.70	-139.5	clear	0.8	-
7.42	1333	410	7.37	582	18.64	0.60	-138.5	clear	1.2	-

Total Gallons Purged: 2.35

Purging Method: 2" Submersible Bladder Pump | 12 Volt Pump | (Peristaltic Pump) | Bailer

WELL SAMPLING:

DTW at Time of Sampling: 7.42

Sampling Method: 2" Submersible Bladder Pump | 12 Volt Pump | (Peristaltic Pump) | Bailer

SAMPLE ID: MW-4

QA/QC SAMPLING:

WAS QA/QC SAMPLE COLLECTED AFTER THIS WELL? YES / (NO)

IF SO, SAMPLE ID: _____ TYPE: Rinsate Blank Duplicate Field Blank

COMMENTS:

- pump on slowest speed = 410 ml/min

Groundwater Monitoring Well
Field Sampling Form
The Source Group, Inc.

PROJECT NAME: AB&I
PROJECT NO.: 01-ABI-001
TASK NO.:
WELL ID: MW-5
PURGE DATE: 5/21/09
SAMPLE TIME: 1520
SAMPLE DATE: 5/21/09
PERSONNEL: N. Collins
(circle)

INITIAL DTW (ft): 7.60
DEPTH TO BOTTOM (ft):
WELL DIAM. (in): 2
PUMP INTAKE DEPTH (ft):
3 VOLUMES (gals): —
h*3*0.064 (1.25"); h*3*0.16 (2"); h*3*0.26 (2.5"); h*3*0.38 (3"); h*3*0.65 (4"); h*3*1.5 (6")

PURGE LOG:

(check units!)

DTW	Time (24 hr)	Flow Rate (ml/min)	pH	EC (mS/cm)	Temp. (C)	Disolved Oxygen (mg/L)	REDOX (mV)	Color	Turbidity	Other Observations
7.91	1500	400	6.91	1363	20.74	1.33	-79.7	clear	19.0	—
7.95	1506	400	6.75	1293	19.89	0.83	-14.7	clear	4.5	—
7.95	1513	400	6.83	1279	19.76	0.85	-2.8	clear	30.1	—
7.95	1518	400	6.85	1269	19.76	0.81	0.8	clear	1.9	—

Total Gallons Purged: 4

Purging Method	2" Submersible Bladder Pump	12 Volt Pump	(Peristaltic Pump)	Bailer

WELL SAMPLING:

DTW at Time of Sampling: 7.95

Sampling Method	2" Submersible Bladder Pump	12 Volt Pump	(Peristaltic Pump)	Bailer

SAMPLE ID: MW-5

QA/QC SAMPLING:

WAS QA/QC SAMPLE COLLECTED AFTER THIS WELL? YES / (NO)

IF SO, SAMPLE ID: _____ TYPE: Rinsate Blank Duplicate Field Blank

COMMENTS:

- Slowest speed on pump = 400 ml/min

Groundwater Monitoring Well
Field Sampling Form
The Source Group, Inc.

PROJECT NAME: AB&I
PROJECT NO.: 01-ABI-001
TASK NO.: _____
WELL ID: MW-6
PURGE DATE: 5/21/09
SAMPLE TIME: 1433
SAMPLE DATE: 5/21/09
PERSONNEL: M. Clinton (circle)

INITIAL DTW (ft): 7.69
DEPTH TO BOTTOM (ft): _____
WELL DIAM. (in): 2
PUMP INTAKE DEPTH (ft): _____
3 VOLUMES (gals): —
h*3*0.064 (1.25"); h*3*0.16 (2"); h*3*0.26 (2.5"); h*3*0.38 (3"); h*3*0.65 (4"); h*3*1.5 (6")

PURGE LOG:

(check units!)

DTW	Time (24 hr)	Flow Rate (ml/min)	pH	EC (mS/cm)	Temp. (C)	Disolved Oxygen (mg/L)	REDOX (mV)	Color	Turbidity	Other Observations
8.02	1408	400	7.04	2583	21.57	1.29	-54.7	clear	8.1	—
8.05	1413	400	6.95	2385	21.47	1.21	-38.4	clear	1.0	—
8.05	1418	400	6.95	2346	21.58	1.13	-5.0	clear	0.9	—
8.06	1425	400	6.94	2350	21.55	0.97	-1.5	clear	-1.6	—
8.06	1430	400	6.94	2354	21.42	0.93	21.3	clear	-1.7	—

Total Gallons Purged: 3.5

Purging Method	2" Submersible Bladder Pump	12 Volt Pump	Peristaltic Pump	Bailer

WELL SAMPLING:

DTW at Time of Sampling: 8.06

Sampling Method	2" Submersible Bladder Pump	12 Volt Pump	Peristaltic Pump	Bailer

SAMPLE ID: MW-6

QA/QC SAMPLING:

WAS QA/QC SAMPLE COLLECTED AFTER THIS WELL? YES / NO

IF SO, SAMPLE ID: _____ TYPE: Rinsate Blank Duplicate Field Blank

COMMENTS:

- pump on slowest speed ~ 400 ml/min

Groundwater Monitoring Well
Field Sampling Form
The Source Group, Inc.

PROJECT NAME: AB&I
PROJECT NO.: 01-ABI-001
TASK NO.: _____
WELL ID: MW-7
PURGE DATE: 5/22/09
SAMPLE TIME: 1135
SAMPLE DATE: 5/22/09
PERSONNEL: N. Clifton (circle)

INITIAL DTW (ft): 6.31
DEPTH TO BOTTOM (ft): _____
WELL DIAM. (in): 2
PUMP INTAKE DEPTH (ft): _____
3 VOLUMES (gals): _____
h*3*0.064 (1.25"); h*3*0.16 (2"); h*3*0.26 (2.5"); h*3*0.38 (3"); h*3*0.65 (4"); h*3*1.5 (6")

PURGE LOG:

(check units!)

DTW	Time (24 hr)	Flow Rate (ml/min)	pH	EC (mS/cm)	Temp. (C)	Disolved Oxygen (mg/L)	REDOX (mV)	Color	Turbidity	Other Observations
6.56	1111	400	7.75	1324	16.08	2.04	-168.0	cloudy	40.1	-
6.79	1116	400	7.69	1313	17.44	0.47	-163.0	"	48.2	-
6.83	1123	600	7.65	1318	17.54	0.57	-171.3	"	16.2	-
6.83	1128	600	7.63	1327	17.56	0.51	-173.9	"	4.7	-
6.76	1133	600	7.64	1332	17.67	0.52	-168.5	"	2.0	-

Total Gallons Purged: 5.0

Purging Method: 2" Submersible Bladder Pump | 12 Volt Pump | (Peristaltic Pump) | Bailer

WELL SAMPLING:

DTW at Time of Sampling: 6.76

Sampling Method: 2" Submersible Bladder Pump | 12 Volt Pump | (Peristaltic Pump) | Bailer

SAMPLE ID: MW-7

QA/QC SAMPLING:

WAS QA/QC SAMPLE COLLECTED AFTER THIS WELL? YES / (NO)

IF SO, SAMPLE ID: _____ TYPE: Rinsate Blank Duplicate Field Blank

COMMENTS:

- Slowest pump speed = 400 ml/min.
- increased to 600 ml/min @ ~1120

Groundwater Monitoring Well
Field Sampling Form
The Source Group, Inc.

PROJECT NAME: AB&I
PROJECT NO.: 01-ABI-001
TASK NO.: _____
WELL ID: MW-8
PURGE DATE: 5/21/09
SAMPLE TIME: 1233
SAMPLE DATE: 5/21/09
PERSONNEL: N. Colby
(circle)

INITIAL DTW (ft): 7.71
DEPTH TO BOTTOM (ft): _____
WELL DIAM. (in): 2
PUMP INTAKE DEPTH (ft): _____
3 VOLUMES (gals): _____
h*3*0.064 (1.25"); h*3*0.16 (2"); h*3*0.26 (2.5");
h*3*0.38 (3"); h*3*0.65 (4"); h*3*1.5 (6")

PURGE LOG:

(check units!)

DTW	Time (24 hr)	Flow Rate (ml/min)	pH	EC (mS/cm)	Temp. (C)	Disolved Oxygen (mg/L)	REDOX (mV)	Color	Turbidity	Other Observations
7.87	1214	190	6.88	1665	18.60	1.42	-3.0	clear	12.6	—
7.88	1220	190	6.86	1660	18.46	0.70	4.9	clear	3.1	—
7.88	1225	190	6.86	1659	18.40	0.60	5.4	clear	0.3	—
7.90	1230	190	6.87	1658	18.38	0.56	6.8	clear	-0.6	—

Total Gallons Purged: 2.5

Purging Method	2" Submersible Bladder Pump	12 Volt Pump	Peristaltic Pump	Bailer

WELL SAMPLING:

DTW at Time of Sampling: 7.90

Sampling Method	2" Submersible Bladder Pump	12 Volt Pump	Peristaltic Pump	Bailer

SAMPLE ID: MW-9

QA/QC SAMPLING:

WAS QA/QC SAMPLE COLLECTED AFTER THIS WELL? YES / NO

IF SO, SAMPLE ID: MW-98 TYPE: Rinsate Blank Duplicate Field Blank

COMMENTS:

Groundwater Monitoring Well
Field Sampling Form
The Source Group, Inc.

PROJECT NAME: AB&I
PROJECT NO.: 01-ABI-001
TASK NO.: _____
WELL ID: MW-9
PURGE DATE: 5/22/09
SAMPLE TIME: 0940
SAMPLE DATE: 5/22/09
PERSONNEL: M. Clark
(circle)

INITIAL DTW (ft): 4.06
DEPTH TO BOTTOM (ft): _____
WELL DIAM. (in): 2
PUMP INTAKE DEPTH (ft): _____
3 VOLUMES (gals): _____
h*3*0.064 (1.25"); h*3*0.16 (2"); h*3*0.26 (2.5");
h*3*0.38 (3"); h*3*0.65 (4"); h*3*1.5 (6")

PURGE LOG:

(check units!)

DTW	Time (24 hr)	Flow Rate (ml/min)	pH	EC (mS/cm)	Temp. (C)	Disolved Oxygen (mg/L)	REDOX (mV)	Color	Turbidity	Other Observations
4.25	921	200	6.86	1308	16.68	2.03	-136.5	cloudy	4.5	petroleum odor
4.32	928	220	6.87	1307	16.83	1.05	-149.2	"	2.7	" "
4.32	933	220	6.87	1306	16.88	0.97	-148.5	"	0.2	" "
4.32	938	220	6.87	1305	16.90	0.96	-148.5	"	0.0	" "

Total Gallons Purged: 2.0

Purging Method	2" Submersible Bladder Pump	12 Volt Pump	Peristaltic Pump (circled)	Bailer

WELL SAMPLING:

DTW at Time of Sampling: 4.32

Sampling Method	2" Submersible Bladder Pump	12 Volt Pump	Peristaltic Pump (circled)	Bailer

SAMPLE ID: MW-9

QA/QC SAMPLING:

WAS QA/QC SAMPLE COLLECTED AFTER THIS WELL? YES / NO (circled)

IF SO, SAMPLE ID: _____ TYPE: Rinsate Blank Duplicate Field Blank

COMMENTS:

- Slowest speed on pump = 400 ml/min
- Pump slowed to 200 ml/min - seems to alternating speeds @ sand.
- black residue floating on H_2O. possible oil residue?

JULY 2009

FIELD SAMPLING SHEETS

Groundwater Monitoring Well
Field Sampling Form
The Source Group, Inc.

PROJECT NAME: AB&I
PROJECT NO.: 01-ABI-001
TASK NO.:
WELL ID: MW-3
PURGE DATE: 7/1/09
SAMPLE TIME: 1100
SAMPLE DATE: 7/1/09
PERSONNEL: N. Citton
(circle)

INITIAL DTW (ft): 6.84
DEPTH TO BOTTOM (ft):
WELL DIAM. (in): 2
PUMP INTAKE DEPTH (ft):
3 VOLUMES (gals):
h*3*0.064 (1.25"); h*3*0.16 (2"); h*3*0.26 (2.5");
h*3*0.38 (3"); h*3*0.65 (4"); h*3*1.5 (6")

PURGE LOG:

(check units!)

DTW	Time (24 hr)	Flow Rate (ml/min)	pH	EC (mS/cm)	Temp. (C)	Disolved Oxygen (mg/L)	REDOX (mV)	Color	Turbidity	Other Observations
7.32	1039	-	6.65	3010	22.91	3.13	-282.1	white	25.1	-
7.13	1044	-	6.47	3025	22.64	1.67	-261.1	white	15.0	-
7.12	1049	-	6.44	3038	22.94	1.62	-245.1	"	11.8	-
7.12	1054	-	6.44	3045	22.95	1.46	-243.1	"	8.0	-
7.12	1059	-	6.45	3047	23.00	1.43	-237.1	"	9.8	-

Total Gallons Purged: 1.5

Purging Method: 2" Submersible Bladder Pump | 12 Volt Pump | (Peristaltic Pump) | Bailer

WELL SAMPLING:

DTW at Time of Sampling: 7.12

Sampling Method: 2" Submersible Bladder Pump | 12 Volt Pump | (Peristaltic Pump) | Bailer

SAMPLE ID: MW-3

QA/QC SAMPLING:

WAS QA/QC SAMPLE COLLECTED AFTER THIS WELL? YES / (NO)

IF SO, SAMPLE ID: _____ TYPE: Rinsate Blank Duplicate Field Blank

COMMENTS:

- tubing cracked & repaired w/ type @ bend. Replace tubing @ next sampling event.

Groundwater Monitoring Well
Field Sampling Form
The Source Group, Inc.

PROJECT NAME: AB&I

PROJECT NO.: 01-ABI-001

TASK NO.: _____

WELL ID: MW-8

PURGE DATE: 7/1/09

SAMPLE TIME: 1155

SAMPLE DATE: 7/1/09

PERSONNEL: N. Clifton
(circle)

INITIAL DTW (ft): 7.82

DEPTH TO BOTTOM (ft): _____

WELL DIAM. (in): 2

PUMP INTAKE DEPTH (ft): _____

3 VOLUMES (gals): _____
h*3*0.064 (1.25"); h*3*0.16 (2"); h*3*0.26 (2.5");
h*3*0.38 (3"); h*3*0.65 (4"); h*3*1.5 (6")

PURGE LOG:

(check units!)

DTW	Time (24 hr)	Flow Rate (ml/min)	pH	EC (mS/cm)	Temp. (C)	Disolved Oxygen (mg/L)	REDOX (mV)	Color	Turbidity	Other Observations
8.07	1132	-	6.44	2238	19.67	3.25	-219.7	white	348.7	-
8.12	1139	-	6.26	2159	19.19	1.99	-205.7	white	112.7	-
8.13	1144	-	6.24	2160	19.15	1.64	-201.9	white	98.6	-
8.14	1149	-	6.25	2178	19.14	1.49	-197.9	white	76.1	-
8.15	1154	-	6.24	2180	19.13	1.32	-195.4	white	57.8	-

Total Gallons Purged: 2.0

	2" Submersible Bladder Pump	12 Volt Pump	Peristaltic Pump	Bailer
Purging Method			(Peristaltic Pump)	

WELL SAMPLING:

DTW at Time of Sampling: 8.15

	2" Submersible Bladder Pump	12 Volt Pump	Peristaltic Pump	Bailer
Sampling Method			(Peristaltic Pump)	

SAMPLE ID: MW-8

QA/QC SAMPLING:

WAS QA/QC SAMPLE COLLECTED AFTER THIS WELL? YES / (NO)

IF SO, SAMPLE ID: _____ TYPE: Rinsate Blank Duplicate Field Blank

COMMENTS:

AUGUST 2009

FIELD SAMPLING SHEETS

Groundwater Monitoring Well
Field Sampling Form
The Source Group, Inc.

PROJECT NAME: AB&I

PROJECT NO.: 01-ABI-001

TASK NO.: _____

WELL ID: MW-3

PURGE DATE: 8/7/09

SAMPLE TIME: 1055

SAMPLE DATE: 8/7/09

PERSONNEL: N. Clifton (circle)

INITIAL DTW (ft): 6.98

DEPTH TO BOTTOM (ft): _____

WELL DIAM. (in): 2

PUMP INTAKE DEPTH (ft): _____

3 VOLUMES (gals): _____

h*3*0.064 (1.25"); h*3*0.16 (2"); h*3*0.26 (2.5"); h*3*0.38 (3"); h*3*0.65 (4"); h*3*1.5 (6")

PURGE LOG:

(check units!)

DTW	Time (24 hr)	Flow Rate (ml/min)	pH	EC (mS/cm)	Temp. (C)	Disolved Oxygen (mg/L)	REDOX (mV)	Color	Turbidity	Other Observations
7.47	1034	-	6.48	3641	22.73	2.52	-81.4	gray	12.3	slightly cloudy
7.19	1040	-	6.49	3580	23.22	3.13	-57.4	gray	12.3	" "
7.17	1045	-	6.49	3557	23.67	3.25	-67.4	gray	12.3	" "
7.16	1050	-	6.48	3532	24.13	3.20	-66.2	gray	12.4	" "

Total Gallons Purged: 1.5

Purging Method: 2" Submersible Bladder Pump | 12 Volt Pump | (Peristaltic Pump) | Bailer

WELL SAMPLING:

DTW at Time of Sampling: 7.16

Sampling Method: 2" Submersible Bladder Pump | 12 Volt Pump | (Peristaltic Pump) | Bailer

SAMPLE ID: MW-9

QA/QC SAMPLING:

WAS QA/QC SAMPLE COLLECTED AFTER THIS WELL? YES / NO

IF SO, SAMPLE ID: _____ TYPE: Rinsate Blank Duplicate Field Blank

COMMENTS:

- A.C bubbles in line. Replace tubing @ next sampling event.

Groundwater Monitoring Well
Field Sampling Form
The Source Group, Inc.

PROJECT NAME: AB&I

PROJECT NO.: 01-ABI-001

TASK NO.: _____

WELL ID: MW-8

PURGE DATE: 8/7/09

SAMPLE TIME: 1140

SAMPLE DATE: 8/7/09

PERSONNEL: N. Clifton
(circle)

INITIAL DTW (ft): 7.92

DEPTH TO BOTTOM (ft): _____

WELL DIAM. (in): 2

PUMP INTAKE DEPTH (ft): _____

3 VOLUMES (gals): _____
h*3*0.064 (1.25"); h*3*0.16 (2"); h*3*0.26 (2.5");
h*3*0.38 (3"); h*3*0.65 (4"); h*3*1.5 (6")

PURGE LOG:

(check units!)

DTW	Time (24 hr)	Flow Rate (ml/min)	pH	EC (mS/cm)	Temp. (C)	Disolved Oxygen (mg/L)	REDOX (mV)	Color	Turbidity	Other Observations
8.19	1117	-	6.34	2493	21.37	1.85	-73.0	gray	12.4	Slight murky clouding
8.23	1123	-	6.19	2451	20.10	2.19	-69.4	gray	12.3	" " "
8.17	1128	-	6.17	2453	20.06	2.42	-72.2	gray	12.3	" " "
8.23	1133	-	6.17	2453	19.88	2.37	-73.3	gray	12.3	" " "
	1138									

Total Gallons Purged: 1.5

Purging Method	2" Submersible Bladder Pump	12 Volt Pump	Peristaltic Pump	Bailer

WELL SAMPLING:

DTW at Time of Sampling: 8.19

Sampling Method	2" Submersible Bladder Pump	12 Volt Pump	Peristaltic Pump	Bailer

SAMPLE ID: MW-8

QA/QC SAMPLING:

WAS QA/QC SAMPLE COLLECTED AFTER THIS WELL? YES / NO

IF SO, SAMPLE ID: _____ TYPE: Rinsate Blank Duplicate Field Blank

COMMENTS:

SEPTEMBER 2009

FIELD SAMPLING SHEETS

Groundwater Monitoring Well
Field Sampling Form
The Source Group, Inc.

PROJECT NAME: AB&I
PROJECT NO.: 01-ABI-001
TASK NO.: _____
WELL ID: MW-3
PURGE DATE: 9/10/09
SAMPLE TIME: 955
SAMPLE DATE: 9/10/09
PERSONNEL: N. Cullen
(circle)

INITIAL DTW (ft): 6.80
DEPTH TO BOTTOM (ft): _____
WELL DIAM. (in): 2
PUMP INTAKE DEPTH (ft): _____
3 VOLUMES (gals): _____
h*3*0.064 (1.25"); h*3*0.16 (2"); h*3*0.26 (2.5");
h*3*0.38 (3"); h*3*0.65 (4"); h*3*1.5 (6")

PURGE LOG:

(check units!)

DTW	Time (24 hr)	Flow Rate (ml/min)	pH	EC (mS/cm)	Temp. (C)	Disolved Oxygen (mg/L)	REDOX (mV)	Color	Turbidity	Other Observations
7.15	934	-	6.56	3340	22.52	2.77	-96.1	cloudy	309.0	-
7.10	940	-	6.55	3278	22.55	1.28	-85.8	cloudy	142.9	-
7.08	945	-	6.53	3205	22.68	1.05	-83.4	cloudy	70.5	-
7.08	950	-	6.53	3186	22.77	1.27	-82.5	cloudy	44.3	-
7.08	955	-	6.52	3173	22.90	0.87	-83.5	cloudy	18.7	-

Total Gallons Purged: 2

Purging Method	2" Submersible Bladder Pump	12 Volt Pump	Peristaltic Pump	Bailer

WELL SAMPLING:

DTW at Time of Sampling: 7.08

Sampling Method	2" Submersible Bladder Pump	12 Volt Pump	Peristaltic Pump	Bailer

SAMPLE ID: MW-3

QA/QC SAMPLING:

WAS QA/QC SAMPLE COLLECTED AFTER THIS WELL? YES / NO

IF SO, SAMPLE ID: _____ TYPE: Rinsate Blank Duplicate Field Blank

COMMENTS:

Groundwater Monitoring Well
Field Sampling Form
The Source Group, Inc.

PROJECT NAME: AB&I
PROJECT NO.: 01-ABI-001
TASK NO.:
WELL ID: MW-8
PURGE DATE: 9/10/09
SAMPLE TIME: 1050
SAMPLE DATE: 9/10/09
PERSONNEL: N. Colton
(circle)

INITIAL DTW (ft): 7.87
DEPTH TO BOTTOM (ft):
WELL DIAM. (in): 2
PUMP INTAKE DEPTH (ft):
3 VOLUMES (gals):
h*3*0.064 (1.25"); h*3*0.16 (2"); h*3*0.26 (2.5"); h*3*0.38 (3"); h*3*0.65 (4"); h*3*1.5 (6")

PURGE LOG:

(check units!)

DTW	Time (24 hr)	Flow Rate (ml/min)	pH	EC (mS/cm)	Temp. (C)	Disolved Oxygen (mg/L)	REDOX (mV)	Color	Turbidity	Other Observations
8.13	1027	-	6.20	2387	20.72	2.14	-53.9	cloudy	54.2	-
8.02	1034	-	6.17	2394	20.51	1.51	-61.9	cloudy	13.1	whitish haze
8.02	1039	-	6.16	2396	20.57	1.27	-64.1	clear	8.1	" "
8.02	1044	-	6.17	2402	20.61	1.15	-65.4	clear	9.0	" "
8.05	1049	-	6.16	2406	20.50	1.10	-65.8	clear	6.0	" "

Total Gallons Purged: 2.0

Purging Method	2" Submersible Bladder Pump	12 Volt Pump	Peristaltic Pump	Bailer

WELL SAMPLING:

DTW at Time of Sampling: 8.05

Sampling Method	2" Submersible Bladder Pump	12 Volt Pump	Peristaltic Pump	Bailer

SAMPLE ID: MW-8

QA/QC SAMPLING:

WAS QA/QC SAMPLE COLLECTED AFTER THIS WELL? YES / NO

IF SO, SAMPLE ID: _____ **TYPE:** Rinsate Blank Duplicate Field Blank

COMMENTS:

APPENDIX B

LABORATORY REPORTS AND CHAIN OF CUSTODY RECORDS

MAY 2009 ANALYTICAL DATA

June 02, 2009

Kent Reynolds
The Source Group Inc.
3451 Vincent Dr., Suite C
Pleasant Hill, CA 94523
TEL: (925) 944-2856
FAX: (925) 944-2859

ELAP No.: 1838
NELAP No.: 02107CA
NEVADA.: CA-401
CSDLAC No.: 10196

Workorder No.: 105633

RE: AB&I Foundry, 01-ABI.001

Attention: Kent Reynolds

Enclosed are the results for sample(s) received on May 23, 2009 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez
Laboratory Director

CLIENT: The Source Group Inc.
Project: AB&I Foundry, 01-ABI.001
Lab Order: 105633

CASE NARRATIVE

The samples for RSK-175 analysis were subcontracted to Air Technology Laboratory.

Analytical Comments for EPA 8015B(M) (DRO)

Per client's request, Silica Gel Cleanup was performed on the samples prior to analysis.

Analytical Comments for EPA 8260B

Results were J-Flag. "J" is used to flag those results that are between the PQL (Practical Quantitation Limit) and the calculated MDL (Method Detection Limit). Results that are "J" Flagged are estimated values since it becomes difficult to accurately quantitate the analyte near the MDL.

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

CLIENT:	The Source Group Inc.	**Client Sample ID:**	MW-3
Lab Order:	105633	**Collection Date:**	5/21/2009 11:20:00 AM
Project:	AB&I Foundry, 01-ABI.001	**Matrix:**	GROUNDWATER
Lab ID:	105633-001A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS2_090527A** QC Batch: **Q09VW098** PrepDate: Analyst: **SLL**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	2.3	2.5		µg/L	5	5/27/2009 12:42 PM
1,1,1-Trichloroethane	ND	1.3	2.5		µg/L	5	5/27/2009 12:42 PM
1,1,2,2-Tetrachloroethane	ND	1.7	2.5		µg/L	5	5/27/2009 12:42 PM
1,1,2-Trichloroethane	ND	2.2	2.5		µg/L	5	5/27/2009 12:42 PM
1,1-Dichloroethane	220	0.83	2.5		µg/L	5	5/27/2009 12:42 PM
1,1-Dichloroethene	1000	9.5	25		µg/L	50	5/26/2009 04:01 PM
1,1-Dichloropropene	ND	1.5	2.5		µg/L	5	5/27/2009 12:42 PM
1,2,3-Trichlorobenzene	ND	2.4	2.5		µg/L	5	5/27/2009 12:42 PM
1,2,3-Trichloropropane	ND	1.2	2.5		µg/L	5	5/27/2009 12:42 PM
1,2,4-Trichlorobenzene	ND	2.2	2.5		µg/L	5	5/27/2009 12:42 PM
1,2,4-Trimethylbenzene	ND	2.2	2.5		µg/L	5	5/27/2009 12:42 PM
1,2-Dibromo-3-chloropropane	ND	1.8	2.5		µg/L	5	5/27/2009 12:42 PM
1,2-Dibromoethane	ND	1.9	2.5		µg/L	5	5/27/2009 12:42 PM
1,2-Dichlorobenzene	ND	1.4	2.5		µg/L	5	5/27/2009 12:42 PM
1,2-Dichloroethane	ND	0.82	2.5		µg/L	5	5/27/2009 12:42 PM
1,2-Dichloropropane	ND	1.0	2.5		µg/L	5	5/27/2009 12:42 PM
1,3,5-Trimethylbenzene	ND	1.8	2.5		µg/L	5	5/27/2009 12:42 PM
1,3-Dichlorobenzene	ND	1.4	2.5		µg/L	5	5/27/2009 12:42 PM
1,3-Dichloropropane	ND	1.6	2.5		µg/L	5	5/27/2009 12:42 PM
1,4-Dichlorobenzene	ND	1.2	2.5		µg/L	5	5/27/2009 12:42 PM
2,2-Dichloropropane	ND	1.6	2.5		µg/L	5	5/27/2009 12:42 PM
2-Chlorotoluene	ND	1.5	2.5		µg/L	5	5/27/2009 12:42 PM
4-Chlorotoluene	ND	1.2	2.5		µg/L	5	5/27/2009 12:42 PM
4-Isopropyltoluene	ND	1.8	2.5		µg/L	5	5/27/2009 12:42 PM
Benzene	ND	0.85	2.5		µg/L	5	5/27/2009 12:42 PM
Bromobenzene	ND	1.1	2.5		µg/L	5	5/27/2009 12:42 PM
Bromodichloromethane	ND	1.9	2.5		µg/L	5	5/27/2009 12:42 PM
Bromoform	ND	1.5	2.5		µg/L	5	5/27/2009 12:42 PM
Bromomethane	ND	1.6	2.5		µg/L	5	5/27/2009 12:42 PM
Carbon tetrachloride	ND	1.9	2.5		µg/L	5	5/27/2009 12:42 PM
Chlorobenzene	ND	1.4	2.5		µg/L	5	5/27/2009 12:42 PM
Chloroethane	ND	1.8	2.5		µg/L	5	5/27/2009 12:42 PM
Chloroform	ND	1.2	2.5		µg/L	5	5/27/2009 12:42 PM
Chloromethane	ND	1.6	2.5		µg/L	5	5/27/2009 12:42 PM
cis-1,2-Dichloroethene	10	0.74	2.5		µg/L	5	5/27/2009 12:42 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

CLIENT:	The Source Group Inc.	**Client Sample ID:**	MW-3
Lab Order:	105633	**Collection Date:**	5/21/2009 11:20:00 AM
Project:	AB&I Foundry, 01-ABI.001	**Matrix:**	GROUNDWATER
Lab ID:	105633-001A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS2_090527A** QC Batch: **Q09VW098** PrepDate: Analyst: **SLL**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	1.4	2.5		µg/L	5	5/27/2009 12:42 PM
Dibromochloromethane	ND	2.0	2.5		µg/L	5	5/27/2009 12:42 PM
Dibromomethane	ND	0.93	2.5		µg/L	5	5/27/2009 12:42 PM
Dichlorodifluoromethane	ND	1.6	2.5		µg/L	5	5/27/2009 12:42 PM
Ethylbenzene	ND	1.1	2.5		µg/L	5	5/27/2009 12:42 PM
Hexachlorobutadiene	ND	1.4	2.5		µg/L	5	5/27/2009 12:42 PM
Isopropylbenzene	ND	1.5	2.5		µg/L	5	5/27/2009 12:42 PM
m,p-Xylene	ND	2.5	5.0		µg/L	5	5/27/2009 12:42 PM
Methylene chloride	ND	5.0	5.0		µg/L	5	5/27/2009 12:42 PM
n-Butylbenzene	ND	1.5	2.5		µg/L	5	5/27/2009 12:42 PM
n-Propylbenzene	ND	1.8	2.5		µg/L	5	5/27/2009 12:42 PM
Naphthalene	ND	1.8	2.5		µg/L	5	5/27/2009 12:42 PM
o-Xylene	ND	1.3	2.5		µg/L	5	5/27/2009 12:42 PM
sec-Butylbenzene	ND	1.6	2.5		µg/L	5	5/27/2009 12:42 PM
Styrene	ND	1.9	2.5		µg/L	5	5/27/2009 12:42 PM
tert-Butylbenzene	ND	1.8	2.5		µg/L	5	5/27/2009 12:42 PM
Tetrachloroethene	ND	0.97	2.5		µg/L	5	5/27/2009 12:42 PM
Toluene	1.8	1.1	2.5	J	µg/L	5	5/27/2009 12:42 PM
trans-1,2-Dichloroethene	1.2	1.1	2.5	J	µg/L	5	5/27/2009 12:42 PM
Trichloroethene	ND	0.74	2.5		µg/L	5	5/27/2009 12:42 PM
Trichlorofluoromethane	ND	1.3	2.5		µg/L	5	5/27/2009 12:42 PM
Vinyl chloride	8.4	1.7	2.5		µg/L	5	5/27/2009 12:42 PM
Surr: 1,2-Dichloroethane-d4	121	0	70-130		%REC	5	5/27/2009 12:42 PM
Surr: 1,2-Dichloroethane-d4	93.7	0	70-130		%REC	50	5/26/2009 04:01 PM
Surr: 4-Bromofluorobenzene	101	0	70-130		%REC	5	5/27/2009 12:42 PM
Surr: 4-Bromofluorobenzene	83.0	0	70-130		%REC	50	5/26/2009 04:01 PM
Surr: Dibromofluoromethane	124	0	70-130		%REC	5	5/27/2009 12:42 PM
Surr: Dibromofluoromethane	92.9	0	70-130		%REC	50	5/26/2009 04:01 PM
Surr: Toluene-d8	95.1	0	70-130		%REC	50	5/26/2009 04:01 PM
Surr: Toluene-d8	107	0	70-130		%REC	5	5/27/2009 12:42 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	The Source Group Inc.	**Client Sample ID:**	MW-8
Lab Order:	105633	**Collection Date:**	5/21/2009 12:33:00 PM
Project:	AB&I Foundry, 01-ABI.001	**Matrix:**	GROUNDWATER
Lab ID:	105633-002A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS11_090526A** QC Batch: **A09VW103** PrepDate: Analyst: **SLL**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	4.5	5.0		µg/L	10	5/26/2009 04:21 PM
1,1,1-Trichloroethane	1900	27	50		µg/L	100	5/26/2009 04:40 PM
1,1,2,2-Tetrachloroethane	ND	3.5	5.0		µg/L	10	5/26/2009 04:21 PM
1,1,2-Trichloroethane	ND	4.3	5.0		µg/L	10	5/26/2009 04:21 PM
1,1-Dichloroethane	1500	17	50		µg/L	100	5/26/2009 04:40 PM
1,1-Dichloroethene	1900	19	50		µg/L	100	5/26/2009 04:40 PM
1,1-Dichloropropene	ND	3.0	5.0		µg/L	10	5/26/2009 04:21 PM
1,2,3-Trichlorobenzene	ND	4.8	5.0		µg/L	10	5/26/2009 04:21 PM
1,2,3-Trichloropropane	ND	2.4	5.0		µg/L	10	5/26/2009 04:21 PM
1,2,4-Trichlorobenzene	ND	4.3	5.0		µg/L	10	5/26/2009 04:21 PM
1,2,4-Trimethylbenzene	ND	4.4	5.0		µg/L	10	5/26/2009 04:21 PM
1,2-Dibromo-3-chloropropane	ND	3.5	5.0		µg/L	10	5/26/2009 04:21 PM
1,2-Dibromoethane	ND	3.7	5.0		µg/L	10	5/26/2009 04:21 PM
1,2-Dichlorobenzene	ND	2.7	5.0		µg/L	10	5/26/2009 04:21 PM
1,2-Dichloroethane	ND	1.6	5.0		µg/L	10	5/26/2009 04:21 PM
1,2-Dichloropropane	ND	2.0	5.0		µg/L	10	5/26/2009 04:21 PM
1,3,5-Trimethylbenzene	ND	3.6	5.0		µg/L	10	5/26/2009 04:21 PM
1,3-Dichlorobenzene	ND	2.8	5.0		µg/L	10	5/26/2009 04:21 PM
1,3-Dichloropropane	ND	3.2	5.0		µg/L	10	5/26/2009 04:21 PM
1,4-Dichlorobenzene	ND	2.4	5.0		µg/L	10	5/26/2009 04:21 PM
2,2-Dichloropropane	ND	3.2	5.0		µg/L	10	5/26/2009 04:21 PM
2-Chlorotoluene	ND	3.1	5.0		µg/L	10	5/26/2009 04:21 PM
4-Chlorotoluene	ND	2.3	5.0		µg/L	10	5/26/2009 04:21 PM
4-Isopropyltoluene	ND	3.6	5.0		µg/L	10	5/26/2009 04:21 PM
Benzene	2.9	1.7	5.0	J	µg/L	10	5/26/2009 04:21 PM
Bromobenzene	ND	2.1	5.0		µg/L	10	5/26/2009 04:21 PM
Bromodichloromethane	ND	3.9	5.0		µg/L	10	5/26/2009 04:21 PM
Bromoform	ND	3.0	5.0		µg/L	10	5/26/2009 04:21 PM
Bromomethane	ND	3.2	5.0		µg/L	10	5/26/2009 04:21 PM
Carbon tetrachloride	ND	3.8	5.0		µg/L	10	5/26/2009 04:21 PM
Chlorobenzene	ND	2.8	5.0		µg/L	10	5/26/2009 04:21 PM
Chloroethane	320	3.5	5.0		µg/L	10	5/26/2009 04:21 PM
Chloroform	ND	2.3	5.0		µg/L	10	5/26/2009 04:21 PM
Chloromethane	ND	3.2	5.0		µg/L	10	5/26/2009 04:21 PM
cis-1,2-Dichloroethene	ND	1.5	5.0		µg/L	10	5/26/2009 04:21 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

CLIENT:	The Source Group Inc.	**Client Sample ID:**	MW-8
Lab Order:	105633	**Collection Date:**	5/21/2009 12:33:00 PM
Project:	AB&I Foundry, 01-ABI.001	**Matrix:**	GROUNDWATER
Lab ID:	105633-002A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS11_090526A** QC Batch: **A09VW103** PrepDate: Analyst: **SLL**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	2.9	5.0		µg/L	10	5/26/2009 04:21 PM
Dibromochloromethane	ND	4.0	5.0		µg/L	10	5/26/2009 04:21 PM
Dibromomethane	ND	1.9	5.0		µg/L	10	5/26/2009 04:21 PM
Dichlorodifluoromethane	ND	3.3	5.0		µg/L	10	5/26/2009 04:21 PM
Ethylbenzene	ND	2.2	5.0		µg/L	10	5/26/2009 04:21 PM
Hexachlorobutadiene	ND	2.8	5.0		µg/L	10	5/26/2009 04:21 PM
Isopropylbenzene	5.3	3.0	5.0		µg/L	10	5/26/2009 04:21 PM
m,p-Xylene	ND	4.9	10		µg/L	10	5/26/2009 04:21 PM
Methylene chloride	ND	10	10		µg/L	10	5/26/2009 04:21 PM
n-Butylbenzene	ND	3.0	5.0		µg/L	10	5/26/2009 04:21 PM
n-Propylbenzene	ND	3.6	5.0		µg/L	10	5/26/2009 04:21 PM
Naphthalene	ND	3.5	5.0		µg/L	10	5/26/2009 04:21 PM
o-Xylene	ND	2.7	5.0		µg/L	10	5/26/2009 04:21 PM
sec-Butylbenzene	ND	3.3	5.0		µg/L	10	5/26/2009 04:21 PM
Styrene	ND	3.8	5.0		µg/L	10	5/26/2009 04:21 PM
tert-Butylbenzene	ND	3.5	5.0		µg/L	10	5/26/2009 04:21 PM
Tetrachloroethene	ND	1.9	5.0		µg/L	10	5/26/2009 04:21 PM
Toluene	ND	2.2	5.0		µg/L	10	5/26/2009 04:21 PM
trans-1,2-Dichloroethene	ND	2.2	5.0		µg/L	10	5/26/2009 04:21 PM
Trichloroethene	ND	1.5	5.0		µg/L	10	5/26/2009 04:21 PM
Trichlorofluoromethane	ND	2.6	5.0		µg/L	10	5/26/2009 04:21 PM
Vinyl chloride	16	3.4	5.0		µg/L	10	5/26/2009 04:21 PM
Surr: 1,2-Dichloroethane-d4	93.8	0	70-130		%REC	10	5/26/2009 04:21 PM
Surr: 1,2-Dichloroethane-d4	94.4	0	70-130		%REC	100	5/26/2009 04:40 PM
Surr: 4-Bromofluorobenzene	84.0	0	70-130		%REC	10	5/26/2009 04:21 PM
Surr: 4-Bromofluorobenzene	82.4	0	70-130		%REC	100	5/26/2009 04:40 PM
Surr: Dibromofluoromethane	93.6	0	70-130		%REC	10	5/26/2009 04:21 PM
Surr: Dibromofluoromethane	96.0	0	70-130		%REC	100	5/26/2009 04:40 PM
Surr: Toluene-d8	95.6	0	70-130		%REC	100	5/26/2009 04:40 PM
Surr: Toluene-d8	96.0	0	70-130		%REC	10	5/26/2009 04:21 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	The Source Group Inc.	**Client Sample ID:**	MW-98
Lab Order:	105633	**Collection Date:**	5/21/2009 12:33:00 PM
Project:	AB&I Foundry, 01-ABI.001	**Matrix:**	GROUNDWATER
Lab ID:	105633-003A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS2_090527A** QC Batch: **Q09VW098** PrepDate: Analyst: **SLL**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	4.5	5.0		µg/L	10	5/27/2009 01:03 PM
1,1,1-Trichloroethane	1900	27	50		µg/L	100	5/27/2009 01:25 PM
1,1,2,2-Tetrachloroethane	ND	3.5	5.0		µg/L	10	5/27/2009 01:03 PM
1,1,2-Trichloroethane	ND	4.3	5.0		µg/L	10	5/27/2009 01:03 PM
1,1-Dichloroethane	1700	17	50		µg/L	100	5/27/2009 01:25 PM
1,1-Dichloroethene	2000	19	50		µg/L	100	5/27/2009 01:25 PM
1,1-Dichloropropene	ND	3.0	5.0		µg/L	10	5/27/2009 01:03 PM
1,2,3-Trichlorobenzene	ND	4.8	5.0		µg/L	10	5/27/2009 01:03 PM
1,2,3-Trichloropropane	ND	2.4	5.0		µg/L	10	5/27/2009 01:03 PM
1,2,4-Trichlorobenzene	ND	4.3	5.0		µg/L	10	5/27/2009 01:03 PM
1,2,4-Trimethylbenzene	ND	4.4	5.0		µg/L	10	5/27/2009 01:03 PM
1,2-Dibromo-3-chloropropane	ND	3.5	5.0		µg/L	10	5/27/2009 01:03 PM
1,2-Dibromoethane	ND	3.7	5.0		µg/L	10	5/27/2009 01:03 PM
1,2-Dichlorobenzene	ND	2.7	5.0		µg/L	10	5/27/2009 01:03 PM
1,2-Dichloroethane	ND	1.6	5.0		µg/L	10	5/27/2009 01:03 PM
1,2-Dichloropropane	ND	2.0	5.0		µg/L	10	5/27/2009 01:03 PM
1,3,5-Trimethylbenzene	ND	3.6	5.0		µg/L	10	5/27/2009 01:03 PM
1,3-Dichlorobenzene	ND	2.8	5.0		µg/L	10	5/27/2009 01:03 PM
1,3-Dichloropropane	ND	3.2	5.0		µg/L	10	5/27/2009 01:03 PM
1,4-Dichlorobenzene	ND	2.4	5.0		µg/L	10	5/27/2009 01:03 PM
2,2-Dichloropropane	ND	3.2	5.0		µg/L	10	5/27/2009 01:03 PM
2-Chlorotoluene	ND	3.1	5.0		µg/L	10	5/27/2009 01:03 PM
4-Chlorotoluene	ND	2.3	5.0		µg/L	10	5/27/2009 01:03 PM
4-Isopropyltoluene	ND	3.6	5.0		µg/L	10	5/27/2009 01:03 PM
Benzene	2.8	1.7	5.0	J	µg/L	10	5/27/2009 01:03 PM
Bromobenzene	ND	2.1	5.0		µg/L	10	5/27/2009 01:03 PM
Bromodichloromethane	ND	3.9	5.0		µg/L	10	5/27/2009 01:03 PM
Bromoform	ND	3.0	5.0		µg/L	10	5/27/2009 01:03 PM
Bromomethane	ND	3.2	5.0		µg/L	10	5/27/2009 01:03 PM
Carbon tetrachloride	ND	3.8	5.0		µg/L	10	5/27/2009 01:03 PM
Chlorobenzene	ND	2.8	5.0		µg/L	10	5/27/2009 01:03 PM
Chloroethane	410	3.5	5.0		µg/L	10	5/27/2009 01:03 PM
Chloroform	ND	2.3	5.0		µg/L	10	5/27/2009 01:03 PM
Chloromethane	ND	3.2	5.0		µg/L	10	5/27/2009 01:03 PM
cis-1,2-Dichloroethene	ND	1.5	5.0		µg/L	10	5/27/2009 01:03 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

CLIENT:	The Source Group Inc.	**Client Sample ID:**	MW-98
Lab Order:	105633	**Collection Date:**	5/21/2009 12:33:00 PM
Project:	AB&I Foundry, 01-ABI.001	**Matrix:**	GROUNDWATER
Lab ID:	105633-003A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS2_090527A** QC Batch: **Q09VW098** PrepDate: Analyst: **SLL**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	2.9	5.0		µg/L	10	5/27/2009 01:03 PM
Dibromochloromethane	ND	4.0	5.0		µg/L	10	5/27/2009 01:03 PM
Dibromomethane	ND	1.9	5.0		µg/L	10	5/27/2009 01:03 PM
Dichlorodifluoromethane	ND	3.3	5.0		µg/L	10	5/27/2009 01:03 PM
Ethylbenzene	ND	2.2	5.0		µg/L	10	5/27/2009 01:03 PM
Hexachlorobutadiene	ND	2.8	5.0		µg/L	10	5/27/2009 01:03 PM
Isopropylbenzene	5.4	3.0	5.0		µg/L	10	5/27/2009 01:03 PM
m,p-Xylene	ND	4.9	10		µg/L	10	5/27/2009 01:03 PM
Methylene chloride	ND	10	10		µg/L	10	5/27/2009 01:03 PM
n-Butylbenzene	ND	3.0	5.0		µg/L	10	5/27/2009 01:03 PM
n-Propylbenzene	ND	3.6	5.0		µg/L	10	5/27/2009 01:03 PM
Naphthalene	ND	3.5	5.0		µg/L	10	5/27/2009 01:03 PM
o-Xylene	ND	2.7	5.0		µg/L	10	5/27/2009 01:03 PM
sec-Butylbenzene	ND	3.3	5.0		µg/L	10	5/27/2009 01:03 PM
Styrene	ND	3.8	5.0		µg/L	10	5/27/2009 01:03 PM
tert-Butylbenzene	ND	3.5	5.0		µg/L	10	5/27/2009 01:03 PM
Tetrachloroethene	ND	1.9	5.0		µg/L	10	5/27/2009 01:03 PM
Toluene	ND	2.2	5.0		µg/L	10	5/27/2009 01:03 PM
trans-1,2-Dichloroethene	ND	2.2	5.0		µg/L	10	5/27/2009 01:03 PM
Trichloroethene	ND	1.5	5.0		µg/L	10	5/27/2009 01:03 PM
Trichlorofluoromethane	ND	2.6	5.0		µg/L	10	5/27/2009 01:03 PM
Vinyl chloride	16	3.4	5.0		µg/L	10	5/27/2009 01:03 PM
Surr: 1,2-Dichloroethane-d4	114	0	70-130		%REC	10	5/27/2009 01:03 PM
Surr: 1,2-Dichloroethane-d4	115	0	70-130		%REC	100	5/27/2009 01:25 PM
Surr: 4-Bromofluorobenzene	97.3	0	70-130		%REC	10	5/27/2009 01:03 PM
Surr: 4-Bromofluorobenzene	96.1	0	70-130		%REC	100	5/27/2009 01:25 PM
Surr: Dibromofluoromethane	118	0	70-130		%REC	10	5/27/2009 01:03 PM
Surr: Dibromofluoromethane	117	0	70-130		%REC	100	5/27/2009 01:25 PM
Surr: Toluene-d8	99.7	0	70-130		%REC	100	5/27/2009 01:25 PM
Surr: Toluene-d8	98.4	0	70-130		%REC	10	5/27/2009 01:03 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified
E	Value above quantitation range
J	Analyte detected below quantitation limits
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out

CLIENT:	The Source Group Inc.	**Client Sample ID:**	MW-4
Lab Order:	105633	**Collection Date:**	5/21/2009 1:35:00 PM
Project:	AB&I Foundry, 01-ABI.001	**Matrix:**	GROUNDWATER
Lab ID:	105633-004A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS2_090527A** QC Batch: **Q09VW098** PrepDate: Analyst: **SLL**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.45	0.50		µg/L	1	5/27/2009 10:36 AM
1,1,1-Trichloroethane	ND	0.27	0.50		µg/L	1	5/27/2009 10:36 AM
1,1,2,2-Tetrachloroethane	ND	0.35	0.50		µg/L	1	5/27/2009 10:36 AM
1,1,2-Trichloroethane	ND	0.43	0.50		µg/L	1	5/27/2009 10:36 AM
1,1-Dichloroethane	ND	0.17	0.50		µg/L	1	5/27/2009 10:36 AM
1,1-Dichloroethene	ND	0.19	0.50		µg/L	1	5/27/2009 10:36 AM
1,1-Dichloropropene	ND	0.30	0.50		µg/L	1	5/27/2009 10:36 AM
1,2,3-Trichlorobenzene	ND	0.48	0.50		µg/L	1	5/27/2009 10:36 AM
1,2,3-Trichloropropane	ND	0.24	0.50		µg/L	1	5/27/2009 10:36 AM
1,2,4-Trichlorobenzene	ND	0.43	0.50		µg/L	1	5/27/2009 10:36 AM
1,2,4-Trimethylbenzene	ND	0.44	0.50		µg/L	1	5/27/2009 10:36 AM
1,2-Dibromo-3-chloropropane	ND	0.35	0.50		µg/L	1	5/27/2009 10:36 AM
1,2-Dibromoethane	ND	0.37	0.50		µg/L	1	5/27/2009 10:36 AM
1,2-Dichlorobenzene	ND	0.27	0.50		µg/L	1	5/27/2009 10:36 AM
1,2-Dichloroethane	ND	0.16	0.50		µg/L	1	5/27/2009 10:36 AM
1,2-Dichloropropane	ND	0.20	0.50		µg/L	1	5/27/2009 10:36 AM
1,3,5-Trimethylbenzene	ND	0.36	0.50		µg/L	1	5/27/2009 10:36 AM
1,3-Dichlorobenzene	ND	0.28	0.50		µg/L	1	5/27/2009 10:36 AM
1,3-Dichloropropane	ND	0.32	0.50		µg/L	1	5/27/2009 10:36 AM
1,4-Dichlorobenzene	ND	0.24	0.50		µg/L	1	5/27/2009 10:36 AM
2,2-Dichloropropane	ND	0.32	0.50		µg/L	1	5/27/2009 10:36 AM
2-Chlorotoluene	ND	0.31	0.50		µg/L	1	5/27/2009 10:36 AM
4-Chlorotoluene	ND	0.23	0.50		µg/L	1	5/27/2009 10:36 AM
4-Isopropyltoluene	ND	0.36	0.50		µg/L	1	5/27/2009 10:36 AM
Benzene	ND	0.17	0.50		µg/L	1	5/27/2009 10:36 AM
Bromobenzene	ND	0.21	0.50		µg/L	1	5/27/2009 10:36 AM
Bromodichloromethane	ND	0.39	0.50		µg/L	1	5/27/2009 10:36 AM
Bromoform	ND	0.30	0.50		µg/L	1	5/27/2009 10:36 AM
Bromomethane	ND	0.32	0.50		µg/L	1	5/27/2009 10:36 AM
Carbon tetrachloride	ND	0.38	0.50		µg/L	1	5/27/2009 10:36 AM
Chlorobenzene	ND	0.28	0.50		µg/L	1	5/27/2009 10:36 AM
Chloroethane	ND	0.35	0.50		µg/L	1	5/27/2009 10:36 AM
Chloroform	ND	0.23	0.50		µg/L	1	5/27/2009 10:36 AM
Chloromethane	ND	0.32	0.50		µg/L	1	5/27/2009 10:36 AM
cis-1,2-Dichloroethene	ND	0.15	0.50		µg/L	1	5/27/2009 10:36 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

CLIENT:	The Source Group Inc.	**Client Sample ID:**	MW-4
Lab Order:	105633	**Collection Date:**	5/21/2009 1:35:00 PM
Project:	AB&I Foundry, 01-ABI.001	**Matrix:**	GROUNDWATER
Lab ID:	105633-004A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS2_090527A** QC Batch: **Q09VW098** PrepDate: Analyst: **SLL**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.29	0.50		µg/L	1	5/27/2009 10:36 AM
Dibromochloromethane	ND	0.40	0.50		µg/L	1	5/27/2009 10:36 AM
Dibromomethane	ND	0.19	0.50		µg/L	1	5/27/2009 10:36 AM
Dichlorodifluoromethane	ND	0.33	0.50		µg/L	1	5/27/2009 10:36 AM
Ethylbenzene	ND	0.22	0.50		µg/L	1	5/27/2009 10:36 AM
Hexachlorobutadiene	ND	0.28	0.50		µg/L	1	5/27/2009 10:36 AM
Isopropylbenzene	ND	0.30	0.50		µg/L	1	5/27/2009 10:36 AM
m,p-Xylene	ND	0.49	1.0		µg/L	1	5/27/2009 10:36 AM
Methylene chloride	ND	1.0	1.0		µg/L	1	5/27/2009 10:36 AM
n-Butylbenzene	ND	0.30	0.50		µg/L	1	5/27/2009 10:36 AM
n-Propylbenzene	ND	0.36	0.50		µg/L	1	5/27/2009 10:36 AM
Naphthalene	ND	0.35	0.50		µg/L	1	5/27/2009 10:36 AM
o-Xylene	ND	0.27	0.50		µg/L	1	5/27/2009 10:36 AM
sec-Butylbenzene	ND	0.33	0.50		µg/L	1	5/27/2009 10:36 AM
Styrene	ND	0.38	0.50		µg/L	1	5/27/2009 10:36 AM
tert-Butylbenzene	ND	0.35	0.50		µg/L	1	5/27/2009 10:36 AM
Tetrachloroethene	ND	0.19	0.50		µg/L	1	5/27/2009 10:36 AM
Toluene	ND	0.22	0.50		µg/L	1	5/27/2009 10:36 AM
trans-1,2-Dichloroethene	ND	0.22	0.50		µg/L	1	5/27/2009 10:36 AM
Trichloroethene	ND	0.15	0.50		µg/L	1	5/27/2009 10:36 AM
Trichlorofluoromethane	ND	0.26	0.50		µg/L	1	5/27/2009 10:36 AM
Vinyl chloride	ND	0.34	0.50		µg/L	1	5/27/2009 10:36 AM
Surr: 1,2-Dichloroethane-d4	111	0	70-130		%REC	1	5/27/2009 10:36 AM
Surr: 4-Bromofluorobenzene	104	0	70-130		%REC	1	5/27/2009 10:36 AM
Surr: Dibromofluoromethane	118	0	70-130		%REC	1	5/27/2009 10:36 AM
Surr: Toluene-d8	103	0	70-130		%REC	1	5/27/2009 10:36 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

CLIENT:	The Source Group Inc.	**Client Sample ID:**	MW-6
Lab Order:	105633	**Collection Date:**	5/21/2009 2:33:00 PM
Project:	AB&I Foundry, 01-ABI.001	**Matrix:**	GROUNDWATER
Lab ID:	105633-005A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS2_090527A** QC Batch: **Q09VW098** PrepDate: Analyst: **SLL**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.45	0.50		µg/L	1	5/27/2009 10:57 AM
1,1,1-Trichloroethane	ND	0.27	0.50		µg/L	1	5/27/2009 10:57 AM
1,1,2,2-Tetrachloroethane	ND	0.35	0.50		µg/L	1	5/27/2009 10:57 AM
1,1,2-Trichloroethane	ND	0.43	0.50		µg/L	1	5/27/2009 10:57 AM
1,1-Dichloroethane	ND	0.17	0.50		µg/L	1	5/27/2009 10:57 AM
1,1-Dichloroethene	ND	0.19	0.50		µg/L	1	5/27/2009 10:57 AM
1,1-Dichloropropene	ND	0.30	0.50		µg/L	1	5/27/2009 10:57 AM
1,2,3-Trichlorobenzene	ND	0.48	0.50		µg/L	1	5/27/2009 10:57 AM
1,2,3-Trichloropropane	ND	0.24	0.50		µg/L	1	5/27/2009 10:57 AM
1,2,4-Trichlorobenzene	ND	0.43	0.50		µg/L	1	5/27/2009 10:57 AM
1,2,4-Trimethylbenzene	ND	0.44	0.50		µg/L	1	5/27/2009 10:57 AM
1,2-Dibromo-3-chloropropane	ND	0.35	0.50		µg/L	1	5/27/2009 10:57 AM
1,2-Dibromoethane	ND	0.37	0.50		µg/L	1	5/27/2009 10:57 AM
1,2-Dichlorobenzene	ND	0.27	0.50		µg/L	1	5/27/2009 10:57 AM
1,2-Dichloroethane	ND	0.16	0.50		µg/L	1	5/27/2009 10:57 AM
1,2-Dichloropropane	ND	0.20	0.50		µg/L	1	5/27/2009 10:57 AM
1,3,5-Trimethylbenzene	ND	0.36	0.50		µg/L	1	5/27/2009 10:57 AM
1,3-Dichlorobenzene	ND	0.28	0.50		µg/L	1	5/27/2009 10:57 AM
1,3-Dichloropropane	ND	0.32	0.50		µg/L	1	5/27/2009 10:57 AM
1,4-Dichlorobenzene	ND	0.24	0.50		µg/L	1	5/27/2009 10:57 AM
2,2-Dichloropropane	ND	0.32	0.50		µg/L	1	5/27/2009 10:57 AM
2-Chlorotoluene	ND	0.31	0.50		µg/L	1	5/27/2009 10:57 AM
4-Chlorotoluene	ND	0.23	0.50		µg/L	1	5/27/2009 10:57 AM
4-Isopropyltoluene	ND	0.36	0.50		µg/L	1	5/27/2009 10:57 AM
Benzene	ND	0.17	0.50		µg/L	1	5/27/2009 10:57 AM
Bromobenzene	ND	0.21	0.50		µg/L	1	5/27/2009 10:57 AM
Bromodichloromethane	ND	0.39	0.50		µg/L	1	5/27/2009 10:57 AM
Bromoform	ND	0.30	0.50		µg/L	1	5/27/2009 10:57 AM
Bromomethane	ND	0.32	0.50		µg/L	1	5/27/2009 10:57 AM
Carbon tetrachloride	ND	0.38	0.50		µg/L	1	5/27/2009 10:57 AM
Chlorobenzene	ND	0.28	0.50		µg/L	1	5/27/2009 10:57 AM
Chloroethane	ND	0.35	0.50		µg/L	1	5/27/2009 10:57 AM
Chloroform	ND	0.23	0.50		µg/L	1	5/27/2009 10:57 AM
Chloromethane	ND	0.32	0.50		µg/L	1	5/27/2009 10:57 AM
cis-1,2-Dichloroethene	ND	0.15	0.50		µg/L	1	5/27/2009 10:57 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

CLIENT:	The Source Group Inc.	**Client Sample ID:**	MW-6
Lab Order:	105633	**Collection Date:**	5/21/2009 2:33:00 PM
Project:	AB&I Foundry, 01-ABI.001	**Matrix:**	GROUNDWATER
Lab ID:	105633-005A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS2_090527A**	QC Batch: **Q09VW098**				PrepDate:		Analyst: **SLL**
cis-1,3-Dichloropropene	ND	0.29	0.50		µg/L	1	5/27/2009 10:57 AM
Dibromochloromethane	ND	0.40	0.50		µg/L	1	5/27/2009 10:57 AM
Dibromomethane	ND	0.19	0.50		µg/L	1	5/27/2009 10:57 AM
Dichlorodifluoromethane	ND	0.33	0.50		µg/L	1	5/27/2009 10:57 AM
Ethylbenzene	ND	0.22	0.50		µg/L	1	5/27/2009 10:57 AM
Hexachlorobutadiene	ND	0.28	0.50		µg/L	1	5/27/2009 10:57 AM
Isopropylbenzene	ND	0.30	0.50		µg/L	1	5/27/2009 10:57 AM
m,p-Xylene	ND	0.49	1.0		µg/L	1	5/27/2009 10:57 AM
Methylene chloride	ND	1.0	1.0		µg/L	1	5/27/2009 10:57 AM
n-Butylbenzene	ND	0.30	0.50		µg/L	1	5/27/2009 10:57 AM
n-Propylbenzene	ND	0.36	0.50		µg/L	1	5/27/2009 10:57 AM
Naphthalene	ND	0.35	0.50		µg/L	1	5/27/2009 10:57 AM
o-Xylene	ND	0.27	0.50		µg/L	1	5/27/2009 10:57 AM
sec-Butylbenzene	ND	0.33	0.50		µg/L	1	5/27/2009 10:57 AM
Styrene	ND	0.38	0.50		µg/L	1	5/27/2009 10:57 AM
tert-Butylbenzene	ND	0.35	0.50		µg/L	1	5/27/2009 10:57 AM
Tetrachloroethene	ND	0.19	0.50		µg/L	1	5/27/2009 10:57 AM
Toluene	ND	0.22	0.50		µg/L	1	5/27/2009 10:57 AM
trans-1,2-Dichloroethene	ND	0.22	0.50		µg/L	1	5/27/2009 10:57 AM
Trichloroethene	ND	0.15	0.50		µg/L	1	5/27/2009 10:57 AM
Trichlorofluoromethane	ND	0.26	0.50		µg/L	1	5/27/2009 10:57 AM
Vinyl chloride	ND	0.34	0.50		µg/L	1	5/27/2009 10:57 AM
Surr: 1,2-Dichloroethane-d4	99.8	0	70-130		%REC	1	5/27/2009 10:57 AM
Surr: 4-Bromofluorobenzene	92.5	0	70-130		%REC	1	5/27/2009 10:57 AM
Surr: Dibromofluoromethane	104	0	70-130		%REC	1	5/27/2009 10:57 AM
Surr: Toluene-d8	95.3	0	70-130		%REC	1	5/27/2009 10:57 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

CLIENT:	The Source Group Inc.	**Client Sample ID:**	MW-5
Lab Order:	105633	**Collection Date:**	5/21/2009 3:20:00 PM
Project:	AB&I Foundry, 01-ABI.001	**Matrix:**	GROUNDWATER
Lab ID:	105633-006A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS2_090527A** QC Batch: **Q09VW098** PrepDate: Analyst: **SLL**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.45	0.50		µg/L	1	5/27/2009 11:19 AM
1,1,1-Trichloroethane	ND	0.27	0.50		µg/L	1	5/27/2009 11:19 AM
1,1,2,2-Tetrachloroethane	ND	0.35	0.50		µg/L	1	5/27/2009 11:19 AM
1,1,2-Trichloroethane	ND	0.43	0.50		µg/L	1	5/27/2009 11:19 AM
1,1-Dichloroethane	0.70	0.17	0.50		µg/L	1	5/27/2009 11:19 AM
1,1-Dichloroethene	0.71	0.19	0.50		µg/L	1	5/27/2009 11:19 AM
1,1-Dichloropropene	ND	0.30	0.50		µg/L	1	5/27/2009 11:19 AM
1,2,3-Trichlorobenzene	ND	0.48	0.50		µg/L	1	5/27/2009 11:19 AM
1,2,3-Trichloropropane	ND	0.24	0.50		µg/L	1	5/27/2009 11:19 AM
1,2,4-Trichlorobenzene	ND	0.43	0.50		µg/L	1	5/27/2009 11:19 AM
1,2,4-Trimethylbenzene	ND	0.44	0.50		µg/L	1	5/27/2009 11:19 AM
1,2-Dibromo-3-chloropropane	ND	0.35	0.50		µg/L	1	5/27/2009 11:19 AM
1,2-Dibromoethane	ND	0.37	0.50		µg/L	1	5/27/2009 11:19 AM
1,2-Dichlorobenzene	ND	0.27	0.50		µg/L	1	5/27/2009 11:19 AM
1,2-Dichloroethane	ND	0.16	0.50		µg/L	1	5/27/2009 11:19 AM
1,2-Dichloropropane	ND	0.20	0.50		µg/L	1	5/27/2009 11:19 AM
1,3,5-Trimethylbenzene	ND	0.36	0.50		µg/L	1	5/27/2009 11:19 AM
1,3-Dichlorobenzene	ND	0.28	0.50		µg/L	1	5/27/2009 11:19 AM
1,3-Dichloropropane	ND	0.32	0.50		µg/L	1	5/27/2009 11:19 AM
1,4-Dichlorobenzene	ND	0.24	0.50		µg/L	1	5/27/2009 11:19 AM
2,2-Dichloropropane	ND	0.32	0.50		µg/L	1	5/27/2009 11:19 AM
2-Chlorotoluene	ND	0.31	0.50		µg/L	1	5/27/2009 11:19 AM
4-Chlorotoluene	ND	0.23	0.50		µg/L	1	5/27/2009 11:19 AM
4-Isopropyltoluene	ND	0.36	0.50		µg/L	1	5/27/2009 11:19 AM
Benzene	ND	0.17	0.50		µg/L	1	5/27/2009 11:19 AM
Bromobenzene	ND	0.21	0.50		µg/L	1	5/27/2009 11:19 AM
Bromodichloromethane	ND	0.39	0.50		µg/L	1	5/27/2009 11:19 AM
Bromoform	ND	0.30	0.50		µg/L	1	5/27/2009 11:19 AM
Bromomethane	ND	0.32	0.50		µg/L	1	5/27/2009 11:19 AM
Carbon tetrachloride	ND	0.38	0.50		µg/L	1	5/27/2009 11:19 AM
Chlorobenzene	ND	0.28	0.50		µg/L	1	5/27/2009 11:19 AM
Chloroethane	ND	0.35	0.50		µg/L	1	5/27/2009 11:19 AM
Chloroform	ND	0.23	0.50		µg/L	1	5/27/2009 11:19 AM
Chloromethane	ND	0.32	0.50		µg/L	1	5/27/2009 11:19 AM
cis-1,2-Dichloroethene	3.3	0.15	0.50		µg/L	1	5/27/2009 11:19 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

CLIENT:	The Source Group Inc.	**Client Sample ID:**	MW-5
Lab Order:	105633	**Collection Date:**	5/21/2009 3:20:00 PM
Project:	AB&I Foundry, 01-ABI.001	**Matrix:**	GROUNDWATER
Lab ID:	105633-006A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS2_090527A** QC Batch: **Q09VW098** PrepDate: Analyst: **SLL**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.29	0.50		µg/L	1	5/27/2009 11:19 AM
Dibromochloromethane	ND	0.40	0.50		µg/L	1	5/27/2009 11:19 AM
Dibromomethane	ND	0.19	0.50		µg/L	1	5/27/2009 11:19 AM
Dichlorodifluoromethane	ND	0.33	0.50		µg/L	1	5/27/2009 11:19 AM
Ethylbenzene	ND	0.22	0.50		µg/L	1	5/27/2009 11:19 AM
Hexachlorobutadiene	ND	0.28	0.50		µg/L	1	5/27/2009 11:19 AM
Isopropylbenzene	ND	0.30	0.50		µg/L	1	5/27/2009 11:19 AM
m,p-Xylene	ND	0.49	1.0		µg/L	1	5/27/2009 11:19 AM
Methylene chloride	ND	1.0	1.0		µg/L	1	5/27/2009 11:19 AM
n-Butylbenzene	ND	0.30	0.50		µg/L	1	5/27/2009 11:19 AM
n-Propylbenzene	ND	0.36	0.50		µg/L	1	5/27/2009 11:19 AM
Naphthalene	ND	0.35	0.50		µg/L	1	5/27/2009 11:19 AM
o-Xylene	ND	0.27	0.50		µg/L	1	5/27/2009 11:19 AM
sec-Butylbenzene	ND	0.33	0.50		µg/L	1	5/27/2009 11:19 AM
Styrene	ND	0.38	0.50		µg/L	1	5/27/2009 11:19 AM
tert-Butylbenzene	ND	0.35	0.50		µg/L	1	5/27/2009 11:19 AM
Tetrachloroethene	ND	0.19	0.50		µg/L	1	5/27/2009 11:19 AM
Toluene	ND	0.22	0.50		µg/L	1	5/27/2009 11:19 AM
trans-1,2-Dichloroethene	1.1	0.22	0.50		µg/L	1	5/27/2009 11:19 AM
Trichloroethene	ND	0.15	0.50		µg/L	1	5/27/2009 11:19 AM
Trichlorofluoromethane	ND	0.26	0.50		µg/L	1	5/27/2009 11:19 AM
Vinyl chloride	ND	0.34	0.50		µg/L	1	5/27/2009 11:19 AM
Surr: 1,2-Dichloroethane-d4	103	0	70-130		%REC	1	5/27/2009 11:19 AM
Surr: 4-Bromofluorobenzene	94.5	0	70-130		%REC	1	5/27/2009 11:19 AM
Surr: Dibromofluoromethane	107	0	70-130		%REC	1	5/27/2009 11:19 AM
Surr: Toluene-d8	95.9	0	70-130		%REC	1	5/27/2009 11:19 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

CLIENT:	The Source Group Inc.	**Client Sample ID:**	Trip Blank
Lab Order:	105633	**Collection Date:**	
Project:	AB&I Foundry, 01-ABI.001	**Matrix:**	WATER
Lab ID:	105633-007A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS11_090526A** QC Batch: **A09VW103** PrepDate: Analyst: **SLL**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.45	0.50		µg/L	1	5/26/2009 10:06 AM
1,1,1-Trichloroethane	ND	0.27	0.50		µg/L	1	5/26/2009 10:06 AM
1,1,2,2-Tetrachloroethane	ND	0.35	0.50		µg/L	1	5/26/2009 10:06 AM
1,1,2-Trichloroethane	ND	0.43	0.50		µg/L	1	5/26/2009 10:06 AM
1,1-Dichloroethane	ND	0.17	0.50		µg/L	1	5/26/2009 10:06 AM
1,1-Dichloroethene	ND	0.19	0.50		µg/L	1	5/26/2009 10:06 AM
1,1-Dichloropropene	ND	0.30	0.50		µg/L	1	5/26/2009 10:06 AM
1,2,3-Trichlorobenzene	ND	0.48	0.50		µg/L	1	5/26/2009 10:06 AM
1,2,3-Trichloropropane	ND	0.24	0.50		µg/L	1	5/26/2009 10:06 AM
1,2,4-Trichlorobenzene	ND	0.43	0.50		µg/L	1	5/26/2009 10:06 AM
1,2,4-Trimethylbenzene	ND	0.44	0.50		µg/L	1	5/26/2009 10:06 AM
1,2-Dibromo-3-chloropropane	ND	0.35	0.50		µg/L	1	5/26/2009 10:06 AM
1,2-Dibromoethane	ND	0.37	0.50		µg/L	1	5/26/2009 10:06 AM
1,2-Dichlorobenzene	ND	0.27	0.50		µg/L	1	5/26/2009 10:06 AM
1,2-Dichloroethane	ND	0.16	0.50		µg/L	1	5/26/2009 10:06 AM
1,2-Dichloropropane	ND	0.20	0.50		µg/L	1	5/26/2009 10:06 AM
1,3,5-Trimethylbenzene	ND	0.36	0.50		µg/L	1	5/26/2009 10:06 AM
1,3-Dichlorobenzene	ND	0.28	0.50		µg/L	1	5/26/2009 10:06 AM
1,3-Dichloropropane	ND	0.32	0.50		µg/L	1	5/26/2009 10:06 AM
1,4-Dichlorobenzene	ND	0.24	0.50		µg/L	1	5/26/2009 10:06 AM
2,2-Dichloropropane	ND	0.32	0.50		µg/L	1	5/26/2009 10:06 AM
2-Chlorotoluene	ND	0.31	0.50		µg/L	1	5/26/2009 10:06 AM
4-Chlorotoluene	ND	0.23	0.50		µg/L	1	5/26/2009 10:06 AM
4-Isopropyltoluene	ND	0.36	0.50		µg/L	1	5/26/2009 10:06 AM
Benzene	ND	0.17	0.50		µg/L	1	5/26/2009 10:06 AM
Bromobenzene	ND	0.21	0.50		µg/L	1	5/26/2009 10:06 AM
Bromodichloromethane	ND	0.39	0.50		µg/L	1	5/26/2009 10:06 AM
Bromoform	ND	0.30	0.50		µg/L	1	5/26/2009 10:06 AM
Bromomethane	ND	0.32	0.50		µg/L	1	5/26/2009 10:06 AM
Carbon tetrachloride	ND	0.38	0.50		µg/L	1	5/26/2009 10:06 AM
Chlorobenzene	ND	0.28	0.50		µg/L	1	5/26/2009 10:06 AM
Chloroethane	ND	0.35	0.50		µg/L	1	5/26/2009 10:06 AM
Chloroform	ND	0.23	0.50		µg/L	1	5/26/2009 10:06 AM
Chloromethane	ND	0.32	0.50		µg/L	1	5/26/2009 10:06 AM
cis-1,2-Dichloroethene	ND	0.15	0.50		µg/L	1	5/26/2009 10:06 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

CLIENT:	The Source Group Inc.	**Client Sample ID:**	Trip Blank
Lab Order:	105633	**Collection Date:**	
Project:	AB&I Foundry, 01-ABI.001	**Matrix:**	WATER
Lab ID:	105633-007A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS11_090526A** QC Batch: **A09VW103** PrepDate: Analyst: **SLL**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.29	0.50		µg/L	1	5/26/2009 10:06 AM
Dibromochloromethane	ND	0.40	0.50		µg/L	1	5/26/2009 10:06 AM
Dibromomethane	ND	0.19	0.50		µg/L	1	5/26/2009 10:06 AM
Dichlorodifluoromethane	ND	0.33	0.50		µg/L	1	5/26/2009 10:06 AM
Ethylbenzene	ND	0.22	0.50		µg/L	1	5/26/2009 10:06 AM
Hexachlorobutadiene	ND	0.28	0.50		µg/L	1	5/26/2009 10:06 AM
Isopropylbenzene	ND	0.30	0.50		µg/L	1	5/26/2009 10:06 AM
m,p-Xylene	ND	0.49	1.0		µg/L	1	5/26/2009 10:06 AM
Methylene chloride	ND	1.0	1.0		µg/L	1	5/26/2009 10:06 AM
n-Butylbenzene	ND	0.30	0.50		µg/L	1	5/26/2009 10:06 AM
n-Propylbenzene	ND	0.36	0.50		µg/L	1	5/26/2009 10:06 AM
Naphthalene	ND	0.35	0.50		µg/L	1	5/26/2009 10:06 AM
o-Xylene	ND	0.27	0.50		µg/L	1	5/26/2009 10:06 AM
sec-Butylbenzene	ND	0.33	0.50		µg/L	1	5/26/2009 10:06 AM
Styrene	ND	0.38	0.50		µg/L	1	5/26/2009 10:06 AM
tert-Butylbenzene	ND	0.35	0.50		µg/L	1	5/26/2009 10:06 AM
Tetrachloroethene	ND	0.19	0.50		µg/L	1	5/26/2009 10:06 AM
Toluene	ND	0.22	0.50		µg/L	1	5/26/2009 10:06 AM
trans-1,2-Dichloroethene	ND	0.22	0.50		µg/L	1	5/26/2009 10:06 AM
Trichloroethene	ND	0.15	0.50		µg/L	1	5/26/2009 10:06 AM
Trichlorofluoromethane	ND	0.26	0.50		µg/L	1	5/26/2009 10:06 AM
Vinyl chloride	ND	0.34	0.50		µg/L	1	5/26/2009 10:06 AM
Surr: 1,2-Dichloroethane-d4	90.8	0	70-130		%REC	1	5/26/2009 10:06 AM
Surr: 4-Bromofluorobenzene	82.6	0	70-130		%REC	1	5/26/2009 10:06 AM
Surr: Dibromofluoromethane	94.5	0	70-130		%REC	1	5/26/2009 10:06 AM
Surr: Toluene-d8	95.0	0	70-130		%REC	1	5/26/2009 10:06 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

CLIENT:	The Source Group Inc.	**Client Sample ID:**	MW-9
Lab Order:	105633	**Collection Date:**	5/22/2009 9:40:00 AM
Project:	AB&I Foundry, 01-ABI.001	**Matrix:**	GROUNDWATER
Lab ID:	105633-008A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS2_090527A** QC Batch: **Q09VW098** PrepDate: Analyst: **SLL**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.45	0.50		µg/L	1	5/27/2009 01:46 PM
1,1,1-Trichloroethane	ND	0.27	0.50		µg/L	1	5/27/2009 01:46 PM
1,1,2,2-Tetrachloroethane	ND	0.35	0.50		µg/L	1	5/27/2009 01:46 PM
1,1,2-Trichloroethane	ND	0.43	0.50		µg/L	1	5/27/2009 01:46 PM
1,1-Dichloroethane	ND	0.17	0.50		µg/L	1	5/27/2009 01:46 PM
1,1-Dichloroethene	ND	0.19	0.50		µg/L	1	5/27/2009 01:46 PM
1,1-Dichloropropene	ND	0.30	0.50		µg/L	1	5/27/2009 01:46 PM
1,2,3-Trichlorobenzene	ND	0.48	0.50		µg/L	1	5/27/2009 01:46 PM
1,2,3-Trichloropropane	0.28	0.24	0.50	J	µg/L	1	5/27/2009 01:46 PM
1,2,4-Trichlorobenzene	ND	0.43	0.50		µg/L	1	5/27/2009 01:46 PM
1,2,4-Trimethylbenzene	ND	0.44	0.50		µg/L	1	5/27/2009 01:46 PM
1,2-Dibromo-3-chloropropane	ND	0.35	0.50		µg/L	1	5/27/2009 01:46 PM
1,2-Dibromoethane	ND	0.37	0.50		µg/L	1	5/27/2009 01:46 PM
1,2-Dichlorobenzene	ND	0.27	0.50		µg/L	1	5/27/2009 01:46 PM
1,2-Dichloroethane	ND	0.16	0.50		µg/L	1	5/27/2009 01:46 PM
1,2-Dichloropropane	ND	0.20	0.50		µg/L	1	5/27/2009 01:46 PM
1,3,5-Trimethylbenzene	ND	0.36	0.50		µg/L	1	5/27/2009 01:46 PM
1,3-Dichlorobenzene	ND	0.28	0.50		µg/L	1	5/27/2009 01:46 PM
1,3-Dichloropropane	ND	0.32	0.50		µg/L	1	5/27/2009 01:46 PM
1,4-Dichlorobenzene	ND	0.24	0.50		µg/L	1	5/27/2009 01:46 PM
2,2-Dichloropropane	ND	0.32	0.50		µg/L	1	5/27/2009 01:46 PM
2-Chlorotoluene	ND	0.31	0.50		µg/L	1	5/27/2009 01:46 PM
4-Chlorotoluene	ND	0.23	0.50		µg/L	1	5/27/2009 01:46 PM
4-Isopropyltoluene	1.6	0.36	0.50		µg/L	1	5/27/2009 01:46 PM
Benzene	180	1.7	5.0		µg/L	10	5/27/2009 02:07 PM
Bromobenzene	ND	0.21	0.50		µg/L	1	5/27/2009 01:46 PM
Bromodichloromethane	ND	0.39	0.50		µg/L	1	5/27/2009 01:46 PM
Bromoform	ND	0.30	0.50		µg/L	1	5/27/2009 01:46 PM
Bromomethane	ND	0.32	0.50		µg/L	1	5/27/2009 01:46 PM
Carbon tetrachloride	ND	0.38	0.50		µg/L	1	5/27/2009 01:46 PM
Chlorobenzene	ND	0.28	0.50		µg/L	1	5/27/2009 01:46 PM
Chloroethane	ND	0.35	0.50		µg/L	1	5/27/2009 01:46 PM
Chloroform	ND	0.23	0.50		µg/L	1	5/27/2009 01:46 PM
Chloromethane	ND	0.32	0.50		µg/L	1	5/27/2009 01:46 PM
cis-1,2-Dichloroethene	ND	0.15	0.50		µg/L	1	5/27/2009 01:46 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

CLIENT:	The Source Group Inc.	**Client Sample ID:**	MW-9
Lab Order:	105633	**Collection Date:**	5/22/2009 9:40:00 AM
Project:	AB&I Foundry, 01-ABI.001	**Matrix:**	GROUNDWATER
Lab ID:	105633-008A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS2_090527A** QC Batch: **Q09VW098** PrepDate: Analyst: **SLL**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.29	0.50		µg/L	1	5/27/2009 01:46 PM
Dibromochloromethane	ND	0.40	0.50		µg/L	1	5/27/2009 01:46 PM
Dibromomethane	ND	0.19	0.50		µg/L	1	5/27/2009 01:46 PM
Dichlorodifluoromethane	ND	0.33	0.50		µg/L	1	5/27/2009 01:46 PM
Ethylbenzene	3.9	0.22	0.50		µg/L	1	5/27/2009 01:46 PM
Hexachlorobutadiene	ND	0.28	0.50		µg/L	1	5/27/2009 01:46 PM
Isopropylbenzene	21	0.30	0.50		µg/L	1	5/27/2009 01:46 PM
m,p-Xylene	1.7	0.49	1.0		µg/L	1	5/27/2009 01:46 PM
Methylene chloride	ND	1.0	1.0		µg/L	1	5/27/2009 01:46 PM
n-Butylbenzene	2.2	0.30	0.50		µg/L	1	5/27/2009 01:46 PM
n-Propylbenzene	26	0.36	0.50		µg/L	1	5/27/2009 01:46 PM
Naphthalene	2.2	0.35	0.50		µg/L	1	5/27/2009 01:46 PM
o-Xylene	ND	0.27	0.50		µg/L	1	5/27/2009 01:46 PM
sec-Butylbenzene	2.4	0.33	0.50		µg/L	1	5/27/2009 01:46 PM
Styrene	ND	0.38	0.50		µg/L	1	5/27/2009 01:46 PM
tert-Butylbenzene	ND	0.35	0.50		µg/L	1	5/27/2009 01:46 PM
Tetrachloroethene	ND	0.19	0.50		µg/L	1	5/27/2009 01:46 PM
Toluene	2.9	0.22	0.50		µg/L	1	5/27/2009 01:46 PM
trans-1,2-Dichloroethene	ND	0.22	0.50		µg/L	1	5/27/2009 01:46 PM
Trichloroethene	ND	0.15	0.50		µg/L	1	5/27/2009 01:46 PM
Trichlorofluoromethane	ND	0.26	0.50		µg/L	1	5/27/2009 01:46 PM
Vinyl chloride	ND	0.34	0.50		µg/L	1	5/27/2009 01:46 PM
Surr: 1,2-Dichloroethane-d4	112	0	70-130		%REC	1	5/27/2009 01:46 PM
Surr: 1,2-Dichloroethane-d4	111	0	70-130		%REC	10	5/27/2009 02:07 PM
Surr: 4-Bromofluorobenzene	103	0	70-130		%REC	1	5/27/2009 01:46 PM
Surr: 4-Bromofluorobenzene	102	0	70-130		%REC	10	5/27/2009 02:07 PM
Surr: Dibromofluoromethane	114	0	70-130		%REC	1	5/27/2009 01:46 PM
Surr: Dibromofluoromethane	114	0	70-130		%REC	10	5/27/2009 02:07 PM
Surr: Toluene-d8	103	0	70-130		%REC	10	5/27/2009 02:07 PM
Surr: Toluene-d8	104	0	70-130		%REC	1	5/27/2009 01:46 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	The Source Group Inc.	**Client Sample ID:**	MW-2R
Lab Order:	105633	**Collection Date:**	5/22/2009 10:25:00 AM
Project:	AB&I Foundry, 01-ABI.001	**Matrix:**	GROUNDWATER
Lab ID:	105633-009A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS2_090527A** QC Batch: **Q09VW098** PrepDate: Analyst: **SLL**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.45	0.50		µg/L	1	5/27/2009 11:39 AM
1,1,1-Trichloroethane	ND	0.27	0.50		µg/L	1	5/27/2009 11:39 AM
1,1,2,2-Tetrachloroethane	ND	0.35	0.50		µg/L	1	5/27/2009 11:39 AM
1,1,2-Trichloroethane	ND	0.43	0.50		µg/L	1	5/27/2009 11:39 AM
1,1-Dichloroethane	ND	0.17	0.50		µg/L	1	5/27/2009 11:39 AM
1,1-Dichloroethene	ND	0.19	0.50		µg/L	1	5/27/2009 11:39 AM
1,1-Dichloropropene	ND	0.30	0.50		µg/L	1	5/27/2009 11:39 AM
1,2,3-Trichlorobenzene	ND	0.48	0.50		µg/L	1	5/27/2009 11:39 AM
1,2,3-Trichloropropane	ND	0.24	0.50		µg/L	1	5/27/2009 11:39 AM
1,2,4-Trichlorobenzene	ND	0.43	0.50		µg/L	1	5/27/2009 11:39 AM
1,2,4-Trimethylbenzene	ND	0.44	0.50		µg/L	1	5/27/2009 11:39 AM
1,2-Dibromo-3-chloropropane	ND	0.35	0.50		µg/L	1	5/27/2009 11:39 AM
1,2-Dibromoethane	ND	0.37	0.50		µg/L	1	5/27/2009 11:39 AM
1,2-Dichlorobenzene	ND	0.27	0.50		µg/L	1	5/27/2009 11:39 AM
1,2-Dichloroethane	ND	0.16	0.50		µg/L	1	5/27/2009 11:39 AM
1,2-Dichloropropane	ND	0.20	0.50		µg/L	1	5/27/2009 11:39 AM
1,3,5-Trimethylbenzene	ND	0.36	0.50		µg/L	1	5/27/2009 11:39 AM
1,3-Dichlorobenzene	ND	0.28	0.50		µg/L	1	5/27/2009 11:39 AM
1,3-Dichloropropane	ND	0.32	0.50		µg/L	1	5/27/2009 11:39 AM
1,4-Dichlorobenzene	ND	0.24	0.50		µg/L	1	5/27/2009 11:39 AM
2,2-Dichloropropane	ND	0.32	0.50		µg/L	1	5/27/2009 11:39 AM
2-Chlorotoluene	ND	0.31	0.50		µg/L	1	5/27/2009 11:39 AM
4-Chlorotoluene	ND	0.23	0.50		µg/L	1	5/27/2009 11:39 AM
4-Isopropyltoluene	ND	0.36	0.50		µg/L	1	5/27/2009 11:39 AM
Benzene	ND	0.17	0.50		µg/L	1	5/27/2009 11:39 AM
Bromobenzene	ND	0.21	0.50		µg/L	1	5/27/2009 11:39 AM
Bromodichloromethane	ND	0.39	0.50		µg/L	1	5/27/2009 11:39 AM
Bromoform	ND	0.30	0.50		µg/L	1	5/27/2009 11:39 AM
Bromomethane	ND	0.32	0.50		µg/L	1	5/27/2009 11:39 AM
Carbon tetrachloride	ND	0.38	0.50		µg/L	1	5/27/2009 11:39 AM
Chlorobenzene	ND	0.28	0.50		µg/L	1	5/27/2009 11:39 AM
Chloroethane	ND	0.35	0.50		µg/L	1	5/27/2009 11:39 AM
Chloroform	ND	0.23	0.50		µg/L	1	5/27/2009 11:39 AM
Chloromethane	ND	0.32	0.50		µg/L	1	5/27/2009 11:39 AM
cis-1,2-Dichloroethene	ND	0.15	0.50		µg/L	1	5/27/2009 11:39 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

CLIENT:	The Source Group Inc.	**Client Sample ID:**	MW-2R
Lab Order:	105633	**Collection Date:**	5/22/2009 10:25:00 AM
Project:	AB&I Foundry, 01-ABI.001	**Matrix:**	GROUNDWATER
Lab ID:	105633-009A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS2_090527A** QC Batch: **Q09VW098** PrepDate: Analyst: **SLL**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.29	0.50		µg/L	1	5/27/2009 11:39 AM
Dibromochloromethane	ND	0.40	0.50		µg/L	1	5/27/2009 11:39 AM
Dibromomethane	ND	0.19	0.50		µg/L	1	5/27/2009 11:39 AM
Dichlorodifluoromethane	ND	0.33	0.50		µg/L	1	5/27/2009 11:39 AM
Ethylbenzene	ND	0.22	0.50		µg/L	1	5/27/2009 11:39 AM
Hexachlorobutadiene	ND	0.28	0.50		µg/L	1	5/27/2009 11:39 AM
Isopropylbenzene	ND	0.30	0.50		µg/L	1	5/27/2009 11:39 AM
m,p-Xylene	ND	0.49	1.0		µg/L	1	5/27/2009 11:39 AM
Methylene chloride	ND	1.0	1.0		µg/L	1	5/27/2009 11:39 AM
n-Butylbenzene	ND	0.30	0.50		µg/L	1	5/27/2009 11:39 AM
n-Propylbenzene	ND	0.36	0.50		µg/L	1	5/27/2009 11:39 AM
Naphthalene	ND	0.35	0.50		µg/L	1	5/27/2009 11:39 AM
o-Xylene	ND	0.27	0.50		µg/L	1	5/27/2009 11:39 AM
sec-Butylbenzene	ND	0.33	0.50		µg/L	1	5/27/2009 11:39 AM
Styrene	ND	0.38	0.50		µg/L	1	5/27/2009 11:39 AM
tert-Butylbenzene	ND	0.35	0.50		µg/L	1	5/27/2009 11:39 AM
Tetrachloroethene	ND	0.19	0.50		µg/L	1	5/27/2009 11:39 AM
Toluene	ND	0.22	0.50		µg/L	1	5/27/2009 11:39 AM
trans-1,2-Dichloroethene	ND	0.22	0.50		µg/L	1	5/27/2009 11:39 AM
Trichloroethene	ND	0.15	0.50		µg/L	1	5/27/2009 11:39 AM
Trichlorofluoromethane	ND	0.26	0.50		µg/L	1	5/27/2009 11:39 AM
Vinyl chloride	ND	0.34	0.50		µg/L	1	5/27/2009 11:39 AM
Surr: 1,2-Dichloroethane-d4	104	0	70-130		%REC	1	5/27/2009 11:39 AM
Surr: 4-Bromofluorobenzene	92.1	0	70-130		%REC	1	5/27/2009 11:39 AM
Surr: Dibromofluoromethane	107	0	70-130		%REC	1	5/27/2009 11:39 AM
Surr: Toluene-d8	91.7	0	70-130		%REC	1	5/27/2009 11:39 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

CLIENT:	The Source Group Inc.	**Client Sample ID:**	MW-7
Lab Order:	105633	**Collection Date:**	5/22/2009 11:35:00 AM
Project:	AB&I Foundry, 01-ABI.001	**Matrix:**	GROUNDWATER
Lab ID:	105633-010A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS2_090527A** QC Batch: **Q09VW098** PrepDate: Analyst: **SLL**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.45	0.50		µg/L	1	5/27/2009 12:00 PM
1,1,1-Trichloroethane	ND	0.27	0.50		µg/L	1	5/27/2009 12:00 PM
1,1,2,2-Tetrachloroethane	ND	0.35	0.50		µg/L	1	5/27/2009 12:00 PM
1,1,2-Trichloroethane	ND	0.43	0.50		µg/L	1	5/27/2009 12:00 PM
1,1-Dichloroethane	ND	0.17	0.50		µg/L	1	5/27/2009 12:00 PM
1,1-Dichloroethene	ND	0.19	0.50		µg/L	1	5/27/2009 12:00 PM
1,1-Dichloropropene	ND	0.30	0.50		µg/L	1	5/27/2009 12:00 PM
1,2,3-Trichlorobenzene	ND	0.48	0.50		µg/L	1	5/27/2009 12:00 PM
1,2,3-Trichloropropane	ND	0.24	0.50		µg/L	1	5/27/2009 12:00 PM
1,2,4-Trichlorobenzene	ND	0.43	0.50		µg/L	1	5/27/2009 12:00 PM
1,2,4-Trimethylbenzene	ND	0.44	0.50		µg/L	1	5/27/2009 12:00 PM
1,2-Dibromo-3-chloropropane	ND	0.35	0.50		µg/L	1	5/27/2009 12:00 PM
1,2-Dibromoethane	ND	0.37	0.50		µg/L	1	5/27/2009 12:00 PM
1,2-Dichlorobenzene	ND	0.27	0.50		µg/L	1	5/27/2009 12:00 PM
1,2-Dichloroethane	ND	0.16	0.50		µg/L	1	5/27/2009 12:00 PM
1,2-Dichloropropane	ND	0.20	0.50		µg/L	1	5/27/2009 12:00 PM
1,3,5-Trimethylbenzene	ND	0.36	0.50		µg/L	1	5/27/2009 12:00 PM
1,3-Dichlorobenzene	ND	0.28	0.50		µg/L	1	5/27/2009 12:00 PM
1,3-Dichloropropane	ND	0.32	0.50		µg/L	1	5/27/2009 12:00 PM
1,4-Dichlorobenzene	ND	0.24	0.50		µg/L	1	5/27/2009 12:00 PM
2,2-Dichloropropane	ND	0.32	0.50		µg/L	1	5/27/2009 12:00 PM
2-Chlorotoluene	ND	0.31	0.50		µg/L	1	5/27/2009 12:00 PM
4-Chlorotoluene	ND	0.23	0.50		µg/L	1	5/27/2009 12:00 PM
4-Isopropyltoluene	ND	0.36	0.50		µg/L	1	5/27/2009 12:00 PM
Benzene	ND	0.17	0.50		µg/L	1	5/27/2009 12:00 PM
Bromobenzene	ND	0.21	0.50		µg/L	1	5/27/2009 12:00 PM
Bromodichloromethane	ND	0.39	0.50		µg/L	1	5/27/2009 12:00 PM
Bromoform	ND	0.30	0.50		µg/L	1	5/27/2009 12:00 PM
Bromomethane	ND	0.32	0.50		µg/L	1	5/27/2009 12:00 PM
Carbon tetrachloride	ND	0.38	0.50		µg/L	1	5/27/2009 12:00 PM
Chlorobenzene	ND	0.28	0.50		µg/L	1	5/27/2009 12:00 PM
Chloroethane	ND	0.35	0.50		µg/L	1	5/27/2009 12:00 PM
Chloroform	ND	0.23	0.50		µg/L	1	5/27/2009 12:00 PM
Chloromethane	ND	0.32	0.50		µg/L	1	5/27/2009 12:00 PM
cis-1,2-Dichloroethene	ND	0.15	0.50		µg/L	1	5/27/2009 12:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

CLIENT:	The Source Group Inc.	**Client Sample ID:**	MW-7
Lab Order:	105633	**Collection Date:**	5/22/2009 11:35:00 AM
Project:	AB&I Foundry, 01-ABI.001	**Matrix:**	GROUNDWATER
Lab ID:	105633-010A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS2_090527A** QC Batch: **Q09VW098** PrepDate: Analyst: **SLL**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.29	0.50		µg/L	1	5/27/2009 12:00 PM
Dibromochloromethane	ND	0.40	0.50		µg/L	1	5/27/2009 12:00 PM
Dibromomethane	ND	0.19	0.50		µg/L	1	5/27/2009 12:00 PM
Dichlorodifluoromethane	ND	0.33	0.50		µg/L	1	5/27/2009 12:00 PM
Ethylbenzene	ND	0.22	0.50		µg/L	1	5/27/2009 12:00 PM
Hexachlorobutadiene	ND	0.28	0.50		µg/L	1	5/27/2009 12:00 PM
Isopropylbenzene	ND	0.30	0.50		µg/L	1	5/27/2009 12:00 PM
m,p-Xylene	ND	0.49	1.0		µg/L	1	5/27/2009 12:00 PM
Methylene chloride	ND	1.0	1.0		µg/L	1	5/27/2009 12:00 PM
n-Butylbenzene	ND	0.30	0.50		µg/L	1	5/27/2009 12:00 PM
n-Propylbenzene	ND	0.36	0.50		µg/L	1	5/27/2009 12:00 PM
Naphthalene	ND	0.35	0.50		µg/L	1	5/27/2009 12:00 PM
o-Xylene	ND	0.27	0.50		µg/L	1	5/27/2009 12:00 PM
sec-Butylbenzene	ND	0.33	0.50		µg/L	1	5/27/2009 12:00 PM
Styrene	ND	0.38	0.50		µg/L	1	5/27/2009 12:00 PM
tert-Butylbenzene	ND	0.35	0.50		µg/L	1	5/27/2009 12:00 PM
Tetrachloroethene	ND	0.19	0.50		µg/L	1	5/27/2009 12:00 PM
Toluene	ND	0.22	0.50		µg/L	1	5/27/2009 12:00 PM
trans-1,2-Dichloroethene	ND	0.22	0.50		µg/L	1	5/27/2009 12:00 PM
Trichloroethene	ND	0.15	0.50		µg/L	1	5/27/2009 12:00 PM
Trichlorofluoromethane	ND	0.26	0.50		µg/L	1	5/27/2009 12:00 PM
Vinyl chloride	ND	0.34	0.50		µg/L	1	5/27/2009 12:00 PM
Surr: 1,2-Dichloroethane-d4	112	0	70-130		%REC	1	5/27/2009 12:00 PM
Surr: 4-Bromofluorobenzene	97.5	0	70-130		%REC	1	5/27/2009 12:00 PM
Surr: Dibromofluoromethane	113	0	70-130		%REC	1	5/27/2009 12:00 PM
Surr: Toluene-d8	99.9	0	70-130		%REC	1	5/27/2009 12:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

CLIENT:	The Source Group Inc.	**Client Sample ID:**	MW-1
Lab Order:	105633	**Collection Date:**	5/22/2009 12:15:00 PM
Project:	AB&I Foundry, 01-ABI.001	**Matrix:**	GROUNDWATER
Lab ID:	105633-011A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS2_090527A** QC Batch: **Q09VW098** PrepDate: Analyst: **SLL**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.45	0.50		µg/L	1	5/27/2009 12:21 PM
1,1,1-Trichloroethane	ND	0.27	0.50		µg/L	1	5/27/2009 12:21 PM
1,1,2,2-Tetrachloroethane	ND	0.35	0.50		µg/L	1	5/27/2009 12:21 PM
1,1,2-Trichloroethane	ND	0.43	0.50		µg/L	1	5/27/2009 12:21 PM
1,1-Dichloroethane	0.41	0.17	0.50	J	µg/L	1	5/27/2009 12:21 PM
1,1-Dichloroethene	ND	0.19	0.50		µg/L	1	5/27/2009 12:21 PM
1,1-Dichloropropene	ND	0.30	0.50		µg/L	1	5/27/2009 12:21 PM
1,2,3-Trichlorobenzene	ND	0.48	0.50		µg/L	1	5/27/2009 12:21 PM
1,2,3-Trichloropropane	ND	0.24	0.50		µg/L	1	5/27/2009 12:21 PM
1,2,4-Trichlorobenzene	ND	0.43	0.50		µg/L	1	5/27/2009 12:21 PM
1,2,4-Trimethylbenzene	ND	0.44	0.50		µg/L	1	5/27/2009 12:21 PM
1,2-Dibromo-3-chloropropane	ND	0.35	0.50		µg/L	1	5/27/2009 12:21 PM
1,2-Dibromoethane	ND	0.37	0.50		µg/L	1	5/27/2009 12:21 PM
1,2-Dichlorobenzene	ND	0.27	0.50		µg/L	1	5/27/2009 12:21 PM
1,2-Dichloroethane	ND	0.16	0.50		µg/L	1	5/27/2009 12:21 PM
1,2-Dichloropropane	ND	0.20	0.50		µg/L	1	5/27/2009 12:21 PM
1,3,5-Trimethylbenzene	ND	0.36	0.50		µg/L	1	5/27/2009 12:21 PM
1,3-Dichlorobenzene	ND	0.28	0.50		µg/L	1	5/27/2009 12:21 PM
1,3-Dichloropropane	ND	0.32	0.50		µg/L	1	5/27/2009 12:21 PM
1,4-Dichlorobenzene	ND	0.24	0.50		µg/L	1	5/27/2009 12:21 PM
2,2-Dichloropropane	ND	0.32	0.50		µg/L	1	5/27/2009 12:21 PM
2-Chlorotoluene	ND	0.31	0.50		µg/L	1	5/27/2009 12:21 PM
4-Chlorotoluene	ND	0.23	0.50		µg/L	1	5/27/2009 12:21 PM
4-Isopropyltoluene	ND	0.36	0.50		µg/L	1	5/27/2009 12:21 PM
Benzene	ND	0.17	0.50		µg/L	1	5/27/2009 12:21 PM
Bromobenzene	ND	0.21	0.50		µg/L	1	5/27/2009 12:21 PM
Bromodichloromethane	ND	0.39	0.50		µg/L	1	5/27/2009 12:21 PM
Bromoform	ND	0.30	0.50		µg/L	1	5/27/2009 12:21 PM
Bromomethane	ND	0.32	0.50		µg/L	1	5/27/2009 12:21 PM
Carbon tetrachloride	ND	0.38	0.50		µg/L	1	5/27/2009 12:21 PM
Chlorobenzene	ND	0.28	0.50		µg/L	1	5/27/2009 12:21 PM
Chloroethane	ND	0.35	0.50		µg/L	1	5/27/2009 12:21 PM
Chloroform	ND	0.23	0.50		µg/L	1	5/27/2009 12:21 PM
Chloromethane	ND	0.32	0.50		µg/L	1	5/27/2009 12:21 PM
cis-1,2-Dichloroethene	ND	0.15	0.50		µg/L	1	5/27/2009 12:21 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

CLIENT:	The Source Group Inc.	**Client Sample ID:**	MW-1
Lab Order:	105633	**Collection Date:**	5/22/2009 12:15:00 PM
Project:	AB&I Foundry, 01-ABI.001	**Matrix:**	GROUNDWATER
Lab ID:	105633-011A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS2_090527A** QC Batch: **Q09VW098** PrepDate: Analyst: **SLL**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.29	0.50		µg/L	1	5/27/2009 12:21 PM
Dibromochloromethane	ND	0.40	0.50		µg/L	1	5/27/2009 12:21 PM
Dibromomethane	ND	0.19	0.50		µg/L	1	5/27/2009 12:21 PM
Dichlorodifluoromethane	ND	0.33	0.50		µg/L	1	5/27/2009 12:21 PM
Ethylbenzene	ND	0.22	0.50		µg/L	1	5/27/2009 12:21 PM
Hexachlorobutadiene	ND	0.28	0.50		µg/L	1	5/27/2009 12:21 PM
Isopropylbenzene	ND	0.30	0.50		µg/L	1	5/27/2009 12:21 PM
m,p-Xylene	ND	0.49	1.0		µg/L	1	5/27/2009 12:21 PM
Methylene chloride	ND	1.0	1.0		µg/L	1	5/27/2009 12:21 PM
n-Butylbenzene	ND	0.30	0.50		µg/L	1	5/27/2009 12:21 PM
n-Propylbenzene	ND	0.36	0.50		µg/L	1	5/27/2009 12:21 PM
Naphthalene	ND	0.35	0.50		µg/L	1	5/27/2009 12:21 PM
o-Xylene	ND	0.27	0.50		µg/L	1	5/27/2009 12:21 PM
sec-Butylbenzene	ND	0.33	0.50		µg/L	1	5/27/2009 12:21 PM
Styrene	ND	0.38	0.50		µg/L	1	5/27/2009 12:21 PM
tert-Butylbenzene	ND	0.35	0.50		µg/L	1	5/27/2009 12:21 PM
Tetrachloroethene	ND	0.19	0.50		µg/L	1	5/27/2009 12:21 PM
Toluene	ND	0.22	0.50		µg/L	1	5/27/2009 12:21 PM
trans-1,2-Dichloroethene	ND	0.22	0.50		µg/L	1	5/27/2009 12:21 PM
Trichloroethene	ND	0.15	0.50		µg/L	1	5/27/2009 12:21 PM
Trichlorofluoromethane	ND	0.26	0.50		µg/L	1	5/27/2009 12:21 PM
Vinyl chloride	ND	0.34	0.50		µg/L	1	5/27/2009 12:21 PM
Surr: 1,2-Dichloroethane-d4	104	0	70-130		%REC	1	5/27/2009 12:21 PM
Surr: 4-Bromofluorobenzene	92.8	0	70-130		%REC	1	5/27/2009 12:21 PM
Surr: Dibromofluoromethane	107	0	70-130		%REC	1	5/27/2009 12:21 PM
Surr: Toluene-d8	94.2	0	70-130		%REC	1	5/27/2009 12:21 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

CLIENT: The Source Group Inc.
Lab Order: 105633
Project: AB&I Foundry, 01-ABI.001
Lab ID: 105633-001

Client Sample ID: MW-3
Collection Date: 5/21/2009 11:20:00 AM
Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SILICA GEL CLEANUP DRO BY GC-FID						
EPA 3510C				**EPA 8015B**		
RunID: GC16_090526A	QC Batch: 55511			PrepDate: 5/26/2009		Analyst: **CBR**
DRO	ND	0.050		mg/L	1	5/26/2009 02:52 PM
Surr: p-Terphenyl	63.6	35-131		%REC	1	5/26/2009 02:52 PM
GASOLINE RANGE ORGANICS BY GC/FID						
				EPA 8015B(M)		
RunID: GC6_090526A	QC Batch: I09VW081			PrepDate:		Analyst: **BD**
GRO	0.55	0.050		mg/L	1	5/26/2009 10:32 PM
Surr: Bromofluorobenzene (FID)	96.9	71-130		%REC	1	5/26/2009 10:32 PM
TOTAL ORGANIC CARBON						
				SM5310B		
RunID: TOC1_090526A	QC Batch: R109298			PrepDate:		Analyst: **JSD**
Organic Carbon, Total	7.4	6.0		mg/L	2	5/26/2009 03:26 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT:	The Source Group Inc.	**Client Sample ID:**	MW-8
Lab Order:	105633	**Collection Date:**	5/21/2009 12:33:00 PM
Project:	AB&I Foundry, 01-ABI.001	**Matrix:**	GROUNDWATER
Lab ID:	105633-002		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SILICA GEL CLEANUP DRO BY GC-FID						
EPA 3510C				**EPA 8015B**		
RunID: GC16_090526A	QC Batch: 55511			PrepDate: 5/26/2009		Analyst: **CBR**
DRO	ND	0.050		mg/L	1	5/26/2009 03:01 PM
Surr: p-Terphenyl	64.4	35-131		%REC	1	5/26/2009 03:01 PM
GASOLINE RANGE ORGANICS BY GC/FID						
				EPA 8015B(M)		
RunID: GC6_090526A	QC Batch: I09VW081			PrepDate:		Analyst: **BD**
GRO	2.1	0.050		mg/L	1	5/26/2009 11:03 PM
Surr: Bromofluorobenzene (FID)	96.8	71-130		%REC	1	5/26/2009 11:03 PM
TOTAL ORGANIC CARBON						
				SM5310B		
RunID: TOC1_090526A	QC Batch: R109298			PrepDate:		Analyst: **JSD**
Organic Carbon, Total	ND	3.0		mg/L	1	5/26/2009 01:35 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT:	The Source Group Inc.	**Client Sample ID:**	MW-98
Lab Order:	105633	**Collection Date:**	5/21/2009 12:33:00 PM
Project:	AB&I Foundry, 01-ABI.001	**Matrix:**	GROUNDWATER
Lab ID:	105633-003		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SILICA GEL CLEANUP DRO BY GC-FID						
EPA 3510C				**EPA 8015B**		
RunID: GC16_090526A	QC Batch: 55511			PrepDate: 5/26/2009		Analyst: **CBR**
DRO	ND	0.050		mg/L	1	5/26/2009 03:10 PM
Surr: p-Terphenyl	79.0	35-131		%REC	1	5/26/2009 03:10 PM
GASOLINE RANGE ORGANICS BY GC/FID						
EPA 8015B(M)						
RunID: GC6_090526A	QC Batch: I09VW081			PrepDate:		Analyst: **BD**
GRO	2.1	0.050		mg/L	1	5/26/2009 11:33 PM
Surr: Bromofluorobenzene (FID)	95.7	71-130		%REC	1	5/26/2009 11:33 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: The Source Group Inc.
Lab Order: 105633
Project: AB&I Foundry, 01-ABI.001
Lab ID: 105633-004

Client Sample ID: MW-4
Collection Date: 5/21/2009 1:35:00 PM
Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SILICA GEL CLEANUP DRO BY GC-FID						
EPA 3510C				**EPA 8015B**		
RunID: GC16_090526A	QC Batch: 55511			PrepDate: 5/26/2009		Analyst: **CBR**
DRO	ND	0.050		mg/L	1	5/26/2009 03:19 PM
Surr: p-Terphenyl	64.9	35-131		%REC	1	5/26/2009 03:19 PM
GASOLINE RANGE ORGANICS BY GC/FID						
EPA 8015B(M)						
RunID: GC6_090526A	QC Batch: I09VW081			PrepDate:		Analyst: **BD**
GRO	ND	0.050		mg/L	1	5/26/2009 05:56 PM
Surr: Bromofluorobenzene (FID)	97.8	71-130		%REC	1	5/26/2009 05:56 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT:	The Source Group Inc.	**Client Sample ID:**	MW-6
Lab Order:	105633	**Collection Date:**	5/21/2009 2:33:00 PM
Project:	AB&I Foundry, 01-ABI.001	**Matrix:**	GROUNDWATER
Lab ID:	105633-005		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SILICA GEL CLEANUP DRO BY GC-FID						
EPA 3510C				**EPA 8015B**		
RunID: GC16_090526A	QC Batch: 55511			PrepDate: 5/26/2009		Analyst: **CBR**
DRO	ND	0.050		mg/L	1	5/26/2009 03:28 PM
Surr: p-Terphenyl	56.9	35-131		%REC	1	5/26/2009 03:28 PM
GASOLINE RANGE ORGANICS BY GC/FID						
				EPA 8015B(M)		
RunID: GC6_090526A	QC Batch: I09VW081			PrepDate:		Analyst: **BD**
GRO	ND	0.050		mg/L	1	5/26/2009 06:26 PM
Surr: Bromofluorobenzene (FID)	95.6	71-130		%REC	1	5/26/2009 06:26 PM
TOTAL ORGANIC CARBON						
				SM5310B		
RunID: TOC1_090526A	QC Batch: R109298			PrepDate:		Analyst: **JSD**
Organic Carbon, Total	11	6.0		mg/L	2	5/26/2009 03:43 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT:	The Source Group Inc.	**Client Sample ID:**	MW-5
Lab Order:	105633	**Collection Date:**	5/21/2009 3:20:00 PM
Project:	AB&I Foundry, 01-ABI.001	**Matrix:**	GROUNDWATER
Lab ID:	105633-006		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SILICA GEL CLEANUP DRO BY GC-FID						
EPA 3510C				**EPA 8015B**		
RunID: GC16_090526A	QC Batch: 55511			PrepDate: 5/26/2009		Analyst: **CBR**
DRO	ND	0.050		mg/L	1	5/26/2009 03:37 PM
Surr: p-Terphenyl	80.3	35-131		%REC	1	5/26/2009 03:37 PM
GASOLINE RANGE ORGANICS BY GC/FID						
				EPA 8015B(M)		
RunID: GC6_090526A	QC Batch: I09VW081			PrepDate:		Analyst: **BD**
GRO	ND	0.050		mg/L	1	5/26/2009 06:57 PM
Surr: Bromofluorobenzene (FID)	96.7	71-130		%REC	1	5/26/2009 06:57 PM
TOTAL ORGANIC CARBON						
				SM5310B		
RunID: TOC1_090526A	QC Batch: R109298			PrepDate:		Analyst: **JSD**
Organic Carbon, Total	ND	3.0		mg/L	1	5/26/2009 02:12 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT:	The Source Group Inc.	**Client Sample ID:**	MW-9
Lab Order:	105633	**Collection Date:**	5/22/2009 9:40:00 AM
Project:	AB&I Foundry, 01-ABI.001	**Matrix:**	GROUNDWATER
Lab ID:	105633-008		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SILICA GEL CLEANUP DRO BY GC-FID						
EPA 3510C				**EPA 8015B**		
RunID: GC16_090526A	QC Batch: 55511			PrepDate: 5/26/2009		Analyst: **CBR**
DRO	0.25	0.050		mg/L	1	5/26/2009 03:46 PM
Surr: p-Terphenyl	78.1	35-131		%REC	1	5/26/2009 03:46 PM
GASOLINE RANGE ORGANICS BY GC/FID						
EPA 8015B(M)						
RunID: GC6_090526A	QC Batch: I09VW081			PrepDate:		Analyst: **BD**
GRO	3.5	0.050		mg/L	1	5/27/2009 12:04 AM
Surr: Bromofluorobenzene (FID)	97.7	71-130		%REC	1	5/27/2009 12:04 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT:	The Source Group Inc.	**Client Sample ID:**	MW-2R
Lab Order:	105633	**Collection Date:**	5/22/2009 10:25:00 AM
Project:	AB&I Foundry, 01-ABI.001	**Matrix:**	GROUNDWATER
Lab ID:	105633-009		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SILICA GEL CLEANUP DRO BY GC-FID						
EPA 3510C				**EPA 8015B**		
RunID: GC16_090526A	QC Batch: 55511			PrepDate: 5/26/2009		Analyst: **CBR**
DRO	ND	0.050		mg/L	1	5/26/2009 03:56 PM
Surr: p-Terphenyl	74.5	35-131		%REC	1	5/26/2009 03:56 PM
GASOLINE RANGE ORGANICS BY GC/FID						
EPA 8015B(M)						
RunID: GC6_090526A	QC Batch: I09VW081			PrepDate:		Analyst: **BD**
GRO	0.11	0.050		mg/L	1	5/26/2009 07:28 PM
Surr: Bromofluorobenzene (FID)	98.4	71-130		%REC	1	5/26/2009 07:28 PM
TOTAL ORGANIC CARBON						
SM5310B						
RunID: TOC1_090526A	QC Batch: R109298			PrepDate:		Analyst: **JSD**
Organic Carbon, Total	ND	3.0		mg/L	1	5/26/2009 02:29 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT:	The Source Group Inc.	**Client Sample ID:**	MW-7
Lab Order:	105633	**Collection Date:**	5/22/2009 11:35:00 AM
Project:	AB&I Foundry, 01-ABI.001	**Matrix:**	GROUNDWATER
Lab ID:	105633-010		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SILICA GEL CLEANUP DRO BY GC-FID						
EPA 3510C				**EPA 8015B**		
RunID: GC16_090526A	QC Batch: 55511			PrepDate: 5/26/2009		Analyst: **CBR**
DRO	ND	0.050		mg/L	1	5/26/2009 04:05 PM
Surr: p-Terphenyl	37.0	35-131		%REC	1	5/26/2009 04:05 PM
GASOLINE RANGE ORGANICS BY GC/FID						
EPA 8015B(M)						
RunID: GC6_090526A	QC Batch: I09VW081			PrepDate:		Analyst: **BD**
GRO	ND	0.050		mg/L	1	5/26/2009 09:31 PM
Surr: Bromofluorobenzene (FID)	96.4	71-130		%REC	1	5/26/2009 09:31 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT:	The Source Group Inc.	**Client Sample ID:**	MW-1
Lab Order:	105633	**Collection Date:**	5/22/2009 12:15:00 PM
Project:	AB&I Foundry, 01-ABI.001	**Matrix:**	GROUNDWATER
Lab ID:	105633-011		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SILICA GEL CLEANUP DRO BY GC-FID						
EPA 3510C				**EPA 8015B**		
RunID: GC16_090526A	QC Batch: 55511			PrepDate: 5/26/2009		Analyst: **CBR**
DRO	ND	0.050		mg/L	1	5/26/2009 04:15 PM
Surr: p-Terphenyl	52.7	35-131		%REC	1	5/26/2009 04:15 PM
GASOLINE RANGE ORGANICS BY GC/FID						
EPA 8015B(M)						
RunID: GC6_090526A	QC Batch: I09VW081			PrepDate:		Analyst: **BD**
GRO	ND	0.050		mg/L	1	5/26/2009 10:01 PM
Surr: Bromofluorobenzene (FID)	93.9	71-130		%REC	1	5/26/2009 10:01 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT: The Source Group Inc.
Work Order: 105633
Project: AB&I Foundry, 01-ABI.001

ANALYTICAL QC SUMMARY REPORT

TestCode: 415.1_5310B_W

Sample ID: **MB-R109298** SampType: **MBLK** TestCode: **415.1_5310B** Units: **mg/L** Prep Date: RunNo: **109298**
Client ID: **PBW** Batch ID: **R109298** TestNo: **SM5310B** Analysis Date: **5/26/2009** SeqNo: **1716626**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Total	ND	3.0									

Sample ID: **LCS-R109298** SampType: **LCS** TestCode: **415.1_5310B** Units: **mg/L** Prep Date: RunNo: **109298**
Client ID: **LCSW** Batch ID: **R109298** TestNo: **SM5310B** Analysis Date: **5/26/2009** SeqNo: **1716627**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Total	19.730	3.0	20.00	0	98.6	80	120				

Sample ID: **MB-MS** SampType: **MS** TestCode: **415.1_5310B** Units: **mg/L** Prep Date: RunNo: **109298**
Client ID: **ZZZZZZ** Batch ID: **R109298** TestNo: **SM5310B** Analysis Date: **5/26/2009** SeqNo: **1716628**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Total	20.320	3.0	20.00	0	102	70	130				

Sample ID: **MB-MSD** SampType: **MSD** TestCode: **415.1_5310B** Units: **mg/L** Prep Date: RunNo: **109298**
Client ID: **ZZZZZZ** Batch ID: **R109298** TestNo: **SM5310B** Analysis Date: **5/26/2009** SeqNo: **1716629**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Total	20.020	3.0	20.00	0	100	70	130	20.32	1.49	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: The Source Group Inc.
Work Order: 105633
Project: AB&I Foundry, 01-ABI.001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_DSL_LLSGT

Sample ID: **MB-55511**	SampType: **MBLK**	TestCode: **8015_W_DSL**	Units: **mg/L**	Prep Date: **5/26/2009**	RunNo: **109299**
Client ID: **PBW**	Batch ID: **55511**	TestNo: **EPA 8015B**	**EPA 3510C**	Analysis Date: **5/26/2009**	SeqNo: **1716635**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	ND	0.050									
Surr: p-Terphenyl	0.047		0.08000		59.0	35	131				

Sample ID: **LCS-55511**	SampType: **LCS**	TestCode: **8015_W_DSL**	Units: **mg/L**	Prep Date: **5/26/2009**	RunNo: **109299**
Client ID: **LCSW**	Batch ID: **55511**	TestNo: **EPA 8015B**	**EPA 3510C**	Analysis Date: **5/26/2009**	SeqNo: **1716636**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	0.762	0.050	1.000	0	76.2	42	118				
Surr: p-Terphenyl	0.038		0.08000		47.8	35	131				

Sample ID: **MB-55511MS**	SampType: **MS**	TestCode: **8015_W_DSL**	Units: **mg/L**	Prep Date: **5/26/2009**	RunNo: **109299**
Client ID: **ZZZZZZ**	Batch ID: **55511**	TestNo: **EPA 8015B**	**EPA 3510C**	Analysis Date: **5/26/2009**	SeqNo: **1716637**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	0.776	0.050	1.000	0	77.6	42	118				
Surr: p-Terphenyl	0.047		0.08000		58.7	35	131				

Sample ID: **MB-55511MSD**	SampType: **MSD**	TestCode: **8015_W_DSL**	Units: **mg/L**	Prep Date: **5/26/2009**	RunNo: **109299**
Client ID: **ZZZZZZ**	Batch ID: **55511**	TestNo: **EPA 8015B**	**EPA 3510C**	Analysis Date: **5/26/2009**	SeqNo: **1716638**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	0.769	0.050	1.000	0	76.9	42	118	0.7763	0.930	20	
Surr: p-Terphenyl	0.042		0.08000		52.1	35	131		0	0	

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: The Source Group Inc.
Work Order: 105633
Project: AB&I Foundry, 01-ABI.001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_GP LL

Sample ID: **I090526MB1MS**	SampType: **MS**	TestCode: **8015_W_GP**	Units: **mg/L**	Prep Date:	RunNo: **109303**
Client ID: **ZZZZZZ**	Batch ID: **I09VW081**	TestNo: **EPA 8015B(M**		Analysis Date: **5/26/2009**	SeqNo: **1716693**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	0.823	0.050	1.000	0	82.3	69	125				
Surr: Bromofluorobenzene (FID)	92.937		100.0		92.9	71	130				

Sample ID: **I090526LCS2**	SampType: **LCS**	TestCode: **8015_W_GP**	Units: **mg/L**	Prep Date:	RunNo: **109303**
Client ID: **LCSW**	Batch ID: **I09VW081**	TestNo: **EPA 8015B(M**		Analysis Date: **5/26/2009**	SeqNo: **1716694**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	0.734	0.050	1.000	0	73.4	69	125				
Surr: Bromofluorobenzene (FID)	94.695		100.0		94.7	71	130				

Sample ID: **I090526MB1MSD**	SampType: **MSD**	TestCode: **8015_W_GP**	Units: **mg/L**	Prep Date:	RunNo: **109303**
Client ID: **ZZZZZZ**	Batch ID: **I09VW081**	TestNo: **EPA 8015B(M**		Analysis Date: **5/26/2009**	SeqNo: **1716695**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	0.903	0.050	1.000	0	90.3	69	125	0.8230	9.27	20	
Surr: Bromofluorobenzene (FID)	93.388		100.0		93.4	71	130		0	0	

Sample ID: **I090526MB1**	SampType: **MBLK**	TestCode: **8015_W_GP**	Units: **mg/L**	Prep Date:	RunNo: **109303**
Client ID: **PBW**	Batch ID: **I09VW081**	TestNo: **EPA 8015B(M**		Analysis Date: **5/26/2009**	SeqNo: **1716696**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	ND	0.050									
Surr: Bromofluorobenzene (FID)	78.219		100.0		78.2	71	130				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: The Source Group Inc.
Work Order: 105633
Project: AB&I Foundry, 01-ABI.001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A090526LCS1** SampType: **LCS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **109292**
Client ID: **LCSW** Batch ID: **A09VW103** TestNo: **EPA 8260B** Analysis Date: **5/26/2009** SeqNo: **1717210**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	19.640	0.50	20.00	0	98.2	70	130				
Benzene	37.860	0.50	40.00	0	94.6	70	130				
Chlorobenzene	18.360	0.50	20.00	0	91.8	70	130				
MTBE	19.600	0.50	20.00	0	98.0	70	130				
Toluene	38.170	0.50	40.00	0	95.4	70	130				
Trichloroethene	18.260	0.50	20.00	0	91.3	70	130				
Surr: 1,2-Dichloroethane-d4	23.280		25.00		93.1	70	130				
Surr: 4-Bromofluorobenzene	20.920		25.00		83.7	70	130				
Surr: Dibromofluoromethane	23.160		25.00		92.6	70	130				
Surr: Toluene-d8	24.080		25.00		96.3	70	130				

Sample ID: **A090526MB2MS** SampType: **MS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **109292**
Client ID: **ZZZZZZ** Batch ID: **A09VW103** TestNo: **EPA 8260B** Analysis Date: **5/26/2009** SeqNo: **1717211**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	17.630	0.50	20.00	0	88.2	70	130				
Benzene	37.790	0.50	40.00	0	94.5	70	130				
Chlorobenzene	18.810	0.50	20.00	0	94.1	70	130				
Toluene	37.920	0.50	40.00	0	94.8	70	130				
Trichloroethene	18.080	0.50	20.00	0	90.4	70	130				
Surr: 1,2-Dichloroethane-d4	23.120		25.00		92.5	70	130				
Surr: 4-Bromofluorobenzene	21.270		25.00		85.1	70	130				
Surr: Dibromofluoromethane	23.180		25.00		92.7	70	130				
Surr: Toluene-d8	24.280		25.00		97.1	70	130				

Sample ID: **A090526MB2MSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **109292**
Client ID: **ZZZZZZ** Batch ID: **A09VW103** TestNo: **EPA 8260B** Analysis Date: **5/26/2009** SeqNo: **1717212**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	18.880	0.50	20.00	0	94.4	70	130	17.63	6.85	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: The Source Group Inc.
Work Order: 105633
Project: AB&I Foundry, 01-ABI.001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A090526MB2MSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **109292**
Client ID: **ZZZZZZ** Batch ID: **A09VW103** TestNo: **EPA 8260B** Analysis Date: **5/26/2009** SeqNo: **1717212**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	36.760	0.50	40.00	0	91.9	70	130	37.79	2.76	20	
Chlorobenzene	18.030	0.50	20.00	0	90.2	70	130	18.81	4.23	20	
Toluene	37.040	0.50	40.00	0	92.6	70	130	37.92	2.35	20	
Trichloroethene	17.660	0.50	20.00	0	88.3	70	130	18.08	2.35	20	
Surr: 1,2-Dichloroethane-d4	22.940		25.00		91.8	70	130		0	20	
Surr: 4-Bromofluorobenzene	21.030		25.00		84.1	70	130		0	20	
Surr: Dibromofluoromethane	23.270		25.00		93.1	70	130		0	20	
Surr: Toluene-d8	24.040		25.00		96.2	70	130		0	20	

Sample ID: **A090526MB2** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **109292**
Client ID: **PBW** Batch ID: **A09VW103** TestNo: **EPA 8260B** Analysis Date: **5/26/2009** SeqNo: **1717213**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	0.50									
1,1,1-Trichloroethane	ND	0.50									
1,1,2,2-Tetrachloroethane	ND	0.50									
1,1,2-Trichloroethane	ND	0.50									
1,1-Dichloroethane	ND	0.50									
1,1-Dichloroethene	ND	0.50									
1,1-Dichloropropene	ND	0.50									
1,2,3-Trichlorobenzene	ND	0.50									
1,2,3-Trichloropropane	ND	0.50									
1,2,4-Trichlorobenzene	ND	0.50									
1,2,4-Trimethylbenzene	ND	0.50									
1,2-Dibromo-3-chloropropane	ND	0.50									
1,2-Dibromoethane	ND	0.50									
1,2-Dichlorobenzene	ND	0.50									
1,2-Dichloroethane	ND	0.50									
1,2-Dichloropropane	ND	0.50									
1,3,5-Trimethylbenzene	ND	0.50									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: The Source Group Inc.
Work Order: 105633
Project: AB&I Foundry, 01-ABI.001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A090526MB2** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **109292**
Client ID: **PBW** Batch ID: **A09VW103** TestNo: **EPA 8260B** Analysis Date: **5/26/2009** SeqNo: **1717213**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Dichlorobenzene	ND	0.50									
1,3-Dichloropropane	ND	0.50									
1,4-Dichlorobenzene	ND	0.50									
2,2-Dichloropropane	ND	0.50									
2-Chlorotoluene	ND	0.50									
4-Chlorotoluene	ND	0.50									
4-Isopropyltoluene	ND	0.50									
Benzene	ND	0.50									
Bromobenzene	ND	0.50									
Bromodichloromethane	ND	0.50									
Bromoform	ND	0.50									
Bromomethane	ND	0.50									
Carbon tetrachloride	ND	0.50									
Chlorobenzene	ND	0.50									
Chloroethane	ND	0.50									
Chloroform	ND	0.50									
Chloromethane	ND	0.50									
cis-1,2-Dichloroethene	ND	0.50									
cis-1,3-Dichloropropene	ND	0.50									
Dibromochloromethane	ND	0.50									
Dibromomethane	ND	0.50									
Dichlorodifluoromethane	ND	0.50									
Ethylbenzene	ND	0.50									
Hexachlorobutadiene	ND	0.50									
Isopropylbenzene	ND	0.50									
m,p-Xylene	ND	1.0									
Methylene chloride	ND	1.0									
n-Butylbenzene	ND	0.50									
n-Propylbenzene	ND	0.50									
Naphthalene	ND	0.50									

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits

Calculations are based on raw values

- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: The Source Group Inc.
Work Order: 105633
Project: AB&I Foundry, 01-ABI.001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A090526MB2** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **109292**
Client ID: **PBW** Batch ID: **A09VW103** TestNo: **EPA 8260B** Analysis Date: **5/26/2009** SeqNo: **1717213**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
o-Xylene	ND	0.50									
sec-Butylbenzene	ND	0.50									
Styrene	ND	0.50									
tert-Butylbenzene	ND	0.50									
Tetrachloroethene	ND	0.50									
Toluene	ND	0.50									
trans-1,2-Dichloroethene	ND	0.50									
Trichloroethene	ND	0.50									
Trichlorofluoromethane	ND	0.50									
Vinyl chloride	ND	0.50									
Surr: 1,2-Dichloroethane-d4	22.480		25.00		89.9	70	130				
Surr: 4-Bromofluorobenzene	20.590		25.00		82.4	70	130				
Surr: Dibromofluoromethane	23.420		25.00		93.7	70	130				
Surr: Toluene-d8	23.580		25.00		94.3	70	130				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: The Source Group Inc.
Work Order: 105633
Project: AB&I Foundry, 01-ABI.001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **Q090527LCS1** SampType: **MSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **109407**
Client ID: **ZZZZZZ** Batch ID: **Q09VW098** TestNo: **EPA 8260B** Analysis Date: **5/27/2009** SeqNo: **1718371**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	18.590	0.50	20.00	0	93.0	70	130				
Benzene	33.860	0.50	40.00	0	84.6	70	130				
Chlorobenzene	17.320	0.50	20.00	0	86.6	70	130				
Toluene	34.720	0.50	40.00	0	86.8	70	130				
Trichloroethene	15.850	0.50	20.00	0	79.2	70	130				
Surr: 1,2-Dichloroethane-d4	27.910		25.00		112	70	130				
Surr: 4-Bromofluorobenzene	26.700		25.00		107	70	130				
Surr: Dibromofluoromethane	27.300		25.00		109	70	130				
Surr: Toluene-d8	26.990		25.00		108	70	130				

Sample ID: **Q090527MB2MS** SampType: **MS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **109407**
Client ID: **ZZZZZZ** Batch ID: **Q09VW098** TestNo: **EPA 8260B** Analysis Date: **5/27/2009** SeqNo: **1718372**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	16.440	0.50	20.00	0	82.2	70	130	18.59	12.3	0	
Benzene	30.730	0.50	40.00	0	76.8	70	130	33.86	9.69	0	
Chlorobenzene	15.400	0.50	20.00	0	77.0	70	130	17.32	11.7	0	
Toluene	31.270	0.50	40.00	0	78.2	70	130	34.72	10.5	0	
Trichloroethene	14.200	0.50	20.00	0	71.0	70	130	15.85	11.0	0	
Surr: 1,2-Dichloroethane-d4	28.000		25.00		112	70	130		0	0	
Surr: 4-Bromofluorobenzene	25.910		25.00		104	70	130		0	0	
Surr: Dibromofluoromethane	27.330		25.00		109	70	130		0	0	
Surr: Toluene-d8	26.400		25.00		106	70	130		0	0	

Sample ID: **Q090527MB2MSD** SampType: **LCS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **109407**
Client ID: **LCSW** Batch ID: **Q09VW098** TestNo: **EPA 8260B** Analysis Date: **5/27/2009** SeqNo: **1718373**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	23.310	0.50	20.00	0	117	70	130				
Benzene	42.320	0.50	40.00	0	106	70	130				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: The Source Group Inc.
Work Order: 105633
Project: AB&I Foundry, 01-ABI.001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **Q090527MB2MSD** SampType: **LCS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **109407**
Client ID: **LCSW** Batch ID: **Q09VW098** TestNo: **EPA 8260B** Analysis Date: **5/27/2009** SeqNo: **1718373**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	21.470	0.50	20.00	0	107	70	130				
MTBE	22.480	0.50	20.00	0	112	70	130				
Toluene	41.860	0.50	40.00	0	105	70	130				
Trichloroethene	20.340	0.50	20.00	0	102	70	130				
Surr: 1,2-Dichloroethane-d4	24.780		25.00		99.1	70	130				
Surr: 4-Bromofluorobenzene	26.010		25.00		104	70	130				
Surr: Dibromofluoromethane	26.570		25.00		106	70	130				
Surr: Toluene-d8	25.170		25.00		101	70	130				

Sample ID: **Q090527MB2** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **109407**
Client ID: **PBW** Batch ID: **Q09VW098** TestNo: **EPA 8260B** Analysis Date: **5/27/2009** SeqNo: **1718374**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	0.50									
1,1,1-Trichloroethane	ND	0.50									
1,1,2,2-Tetrachloroethane	ND	0.50									
1,1,2-Trichloroethane	ND	0.50									
1,1-Dichloroethane	ND	0.50									
1,1-Dichloroethene	ND	0.50									
1,1-Dichloropropene	ND	0.50									
1,2,3-Trichlorobenzene	ND	0.50									
1,2,3-Trichloropropane	ND	0.50									
1,2,4-Trichlorobenzene	ND	0.50									
1,2,4-Trimethylbenzene	ND	0.50									
1,2-Dibromo-3-chloropropane	ND	0.50									
1,2-Dibromoethane	ND	0.50									
1,2-Dichlorobenzene	ND	0.50									
1,2-Dichloroethane	ND	0.50									
1,2-Dichloropropane	ND	0.50									
1,3,5-Trimethylbenzene	ND	0.50									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: The Source Group Inc.
Work Order: 105633
Project: AB&I Foundry, 01-ABI.001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **Q090527MB2** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **109407**
Client ID: **PBW** Batch ID: **Q09VW098** TestNo: **EPA 8260B** Analysis Date: **5/27/2009** SeqNo: **1718374**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Dichlorobenzene	ND	0.50									
1,3-Dichloropropane	ND	0.50									
1,4-Dichlorobenzene	ND	0.50									
2,2-Dichloropropane	ND	0.50									
2-Chlorotoluene	ND	0.50									
4-Chlorotoluene	ND	0.50									
4-Isopropyltoluene	ND	0.50									
Benzene	ND	0.50									
Bromobenzene	ND	0.50									
Bromodichloromethane	ND	0.50									
Bromoform	ND	0.50									
Bromomethane	ND	0.50									
Carbon tetrachloride	ND	0.50									
Chlorobenzene	ND	0.50									
Chloroethane	ND	0.50									
Chloroform	ND	0.50									
Chloromethane	ND	0.50									
cis-1,2-Dichloroethene	ND	0.50									
cis-1,3-Dichloropropene	ND	0.50									
Dibromochloromethane	ND	0.50									
Dibromomethane	ND	0.50									
Dichlorodifluoromethane	ND	0.50									
Ethylbenzene	ND	0.50									
Hexachlorobutadiene	ND	0.50									
Isopropylbenzene	ND	0.50									
m,p-Xylene	ND	1.0									
Methylene chloride	ND	1.0									
n-Butylbenzene	ND	0.50									
n-Propylbenzene	ND	0.50									
Naphthalene	ND	0.50									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

Air TECHNOLOGY
Laboratories, Inc.

June 5, 2009

nelac
FL Cert #E87847/LA Cert #04140
EPA Methods TO3, TO14A, TO15, 25C/3C
RSK-175
TX Cert #T104704450-09-TX
EPA Methods TO14A,TO15
AZ Dept of Health Services #AZ0737
EPA Methods TO3, TO14A, TO15, 15, 16, 25C

Advanced Technology Labs, Inc.
ATTN: Rachelle Arada
3275 Walnut Ave.
Signal Hill, CA 90755

LABORATORY TEST RESULTS

Project Reference: 105633
Lab Number: A9052606-01/05

Enclosed are results for sample(s) received 5/26/09 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

- Sample analyses were performed within method performance criteria, and meet all requirements of the NELAC Standards.
- All results are reported without qualifications unless otherwise noted.

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com

Enclosures

Note: The cover letter is an integral part of this analytical report.

Client: Advanced Technology Laboratories
Attn: Rachelle Arada

Client's Project: 105633
Date Received: 5/26/09
Matrix: Water
Units: ug/L

Dissolved Gases by EPA Procedure RSKSOP-175

Lab No.:		A9052606-01		A9052606-02		A9052606-03		A9052606-04		A9052606-05	
Client Sample I.D.:		105633-001E / MW-3		105633-002E / MW-8		105633-005E / MW-6		105633-006E / MW-5		105633-009E / MW-2R	
Date Sampled:		5/21/09		5/21/09		5/21/09		5/21/09		5/22/09	
Date Analyzed:		6/2/09		6/2/09		6/2/09		6/2/09		6/2/09	
Analyst Initials:		ZK		ZK		ZK		ZK		ZK	
Data File:		02jun008		02jun009		02jun010		02jun011		02jun012	
QC Batch:		090602GC8A1		090602GC8A1		090602GC8A1		090602GC8A1		090602GC8A1	
Dilution Factor:		1.0		1.0		1.0		1.0		1.0	
ANALYTE	PQL	RL	Results	RL	Results	RL	Results	RL	Results	RL	Results
Methane	1.0	1.0	300	1.0	1,100	1.0	5.2	1.0	15	1.0	180
Ethane	2.0	2.0	19	2.0	19	2.0	ND	2.0	ND	2.0	ND
Ethylene	3.0	3.0	ND	3.0	9.6	3.0	ND	3.0	ND	3.0	ND

PQL = Practical Quantitation Limit
ND = Not Detected (Below RL)
RL = PQL X Dilution Factor

Reviewed/Approved By: _____ Date: 6-5-09
Mark J. Johnson
Operations Manager

The cover letter is an integral part of this analytical report

QC Batch No.: 090602GC8A1
Matrix: Water
Units: ug/L

QC for Dissolved Gases by EPA Procedure RSKSOP-175

Lab No.:		Method Blank		LCS		LCSD			
Date Analyzed:		06/02/09		06/02/09		06/02/09			
Analyst Initials:		ZK		ZK		ZK			
Datafile:		02jun004		02jun002		02jun003			
Dilution Factor:		1.0		1.0		1.0			
ANALYTE	PQL	RL	Results	% Rec.	Criteria	% Rec.	Criteria	%RPD	Criteria
Methane	1.0	1.0	ND	98	70-130%	103	70-130%	4.9	<30
Ethane	2.0	2.0	ND	107	70-130%	126	70-130%	16	<30
Ethylene	3.0	3.0	ND	111	70-130%	122	70-130%	8.8	<30

PQL = Practical Quantitation Limit
ND = Not Detected (Below RL).
RL = PQL X Dilution Factor

Reviewed/Approved By: _____ Date: 6-5-09
Mark J. Johnson
Operations Manager

The cover letter is an integral part of this analytical report

Aeyos 2606 - 04/05

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755-5225
www.atlglobal.com
TEL: (562) 989-4045 *FAX: (562) 989-4040*

CHAIN-OF-CUSTODY RECORD

QC Level: RWQCB

Subcontractor:
Air Technology Laboratories
18501 E. Gale Ave, Suite 130
City of Industry, CA 91748

TEL: (626) 964-4032
FAX: (626) 964-5832
Acct #:

Field Sampler: Nathan Colton

26-May-09

	Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests: RSK175			
01	105633-001E / MW-3	Groundwater	5/21/2009 11:20:00 AM	VOA	1			pH = 7
02	105633-002E / MW-8	Groundwater	5/21/2009 12:33:00 PM	VOA	1			pH = 7
03	105633-005E / MW-6	Groundwater	5/21/2009 2:33:00 PM	VOA	1			pH = 7
04	105633-006E / MW-5	Groundwater	5/21/2009 3:20:00 PM	VOA	1			pH = 7
05	105633-009E / MW-2R	Groundwater	5/22/2009 10:25:00 AM	VOA	1			pH = 7

4°C

General Comments: Please email sample receipt acknowledgement to the PM.

Please use PO#: SC04600 Please fax results by: NORMAL TAT

ANALYZE THE SAMPLES FOR METHANE, ETHENE & ETHANE BY RSK175

PLEASE SEND REPORT TO RACHELLE ARADA

		Date/Time			Date/Time
Relinquished by:		5/26/09	**Received by:**	Jason Chien	5/26 1346
Relinquished by:			**Received by:**		

CLIENT: The Source Group Inc.
Work Order: 105633
Project: AB&I Foundry, 01-ABI.001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **Q090527MB2** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **109407**
Client ID: **PBW** Batch ID: **Q09VW098** TestNo: **EPA 8260B** Analysis Date: **5/27/2009** SeqNo: **1718374**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
o-Xylene	ND	0.50									
sec-Butylbenzene	ND	0.50									
Styrene	ND	0.50									
tert-Butylbenzene	ND	0.50									
Tetrachloroethene	ND	0.50									
Toluene	ND	0.50									
trans-1,2-Dichloroethene	ND	0.50									
Trichloroethene	ND	0.50									
Trichlorofluoromethane	ND	0.50									
Vinyl chloride	ND	0.50									
Surr: 1,2-Dichloroethane-d4	28.590		25.00		114	70	130				
Surr: 4-Bromofluorobenzene	26.010		25.00		104	70	130				
Surr: Dibromofluoromethane	28.540		25.00		114	70	130				
Surr: Toluene-d8	25.530		25.00		102	70	130				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

CHAIN OF CUSTODY RECORD

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755
(562) 989-4045 • Fax (562) 989-4040

FOR LABORATORY USE ONLY:

P.O.#: ______
Logged By: [signature] Date: 5/23/09

Method of Transport: Client ☐ ATL ☐ CA OverN ☐ FEDEX ☐ Other: ONTRAC

Sample Condition Upon Receipt

1. CHILLED 5.7, 4.1	Y ☑ N ☐	4. SEALED	Y ☐ N ☑
2. HEADSPACE (VOA)	Y ☐ N ☐	5. # OF SPLS MATCH COC	Y ☑ N ☐
3. CONTAINER INTACT	Y ☑ N ☐	6. PRESERVED	Y ☐ N ☑

Client: The Source Group, Inc.
Attn: Kent Reynolds
Address: 3451-C Vincent Rd.
City: Pleasant Hill State: CA Zip Code: 94523
TEL: (925) 944-2856
FAX: (925) 944-2859

Project Name: AB+I Foundry
Project #: 01-AB7.001
Sampler: (Printed Name) Nathan Cilton (Signature) [signature]

	Date	Time	Received by	Date	Time
Relinquished by: (Signature and Printed Name) [signature] Nathan Cilton	5/22/09	1500	Received by: (Signature and Printed Name) [signature]	5/23/09	1035
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter:
Nathan Cilton — 5/22/09
Print Name — Date
[signature]
Signature

Send Report To:
Attn: Kent Reynolds
Co: The Source Group, Inc.
Address: 3451-C Vincent
City: Pleasant Hill State: CA Zip: 94523

Bill To:
Attn: ______
Co: SAME
Address ______
City ______ State ______ Zip ______

Special Instructions/Comments:
0.5 reporting limits ~~[struck text]~~
include EDD & EDF reports
ID: T0600100065

Sample/Records - Archival & Disposal
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.
Storage Fees (applies when storage is requested):
- Sample : $2.00 / sample / mo (after 45 days)
- Records : $1.00 / ATL workorder / mo (after 1 year)

QA / QC: RTNE ☐ CT ☐ SWRCB ☐ Logcode ____ OTHER ____

ITEM	LAB USE ONLY: Batch #: Lab No.	Sample I.D. / Location	Date	Time	8081A (Pesticides)	8082 (PCB)	8260B (Volatiles)	8270C (BNA)	6010B (Total Metal)	8015B (GRO) / ~~8020 (BTEX)~~	8015B (DRO)	8021 (BTEX)	TITLE 22 / CAM 17 (6010 / 7000)	TOC	RSK-175	Silica Gel C/U	SOIL	WATER	GROUND WATER	WASTEWATER	TAT	#	Type	PRESERVATION	REMARKS
	105633-01	MW-3	5/21/09	1120			X			X	X			X	X	X			X		E	13			
	-2	MW-8	↓	1233			X			X	X			X	X	X			X		↓	13			
	-3	MW-98	↓	1233			X			X	X					X			X		↓	7			
	-4	MW-4	↓	1335			X			X	X					X			X		↓	7			
	-5	MW-6	↓	1433			X			X	X			X	X	X			X		↓	13			
	-6	MW-5	↓	1520			X			X	X			X	X	X			X		↓	13			
		~~MW-9~~	~~5/22~~	~~940~~																		~~7~~			
	-7	Trip Blank	—				X											X			↓	2			

• TAT starts 8 a.m. following day if samples received after 3 p.m.

TAT: A= Overnight ≤ 24 hr B= Emergency Next workday C= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Preservatives: H=Hcl N=HNO_3 S=H_2SO_4 C=4°C Z=Zn$(AC)_2$ O=NaOH T=$Na_2S_2O_3$

DISTRIBUTION: **White** with report, **Yellow** to folder, **Pink** to submitter.

CHAIN OF CUSTODY RECORD

Pg 2 of 2

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755
(562) 989-4045 • Fax (562) 989-4040

FOR LABORATORY USE ONLY:

P.O.#:

Logged By: f Date: 5/23/09

Method of Transport: Client ☐ ATL ☐ CA OverN ☐ FEDEX ☐ Other: ONTRAC

Sample Condition Upon Receipt
1. CHILLED Y ☑ N ☐ 4. SEALED Y ☐ N ☑
2. HEADSPACE (VOA) Y ☐ N ☐ 5. # OF SPLS MATCH COC Y ☑ N ☐
3. CONTAINER INTACT Y ☑ N ☐ 6. PRESERVED Y ☐ N ☑

Client: The Source Group Inc. | Address: 3451-C Vincent Rd. | TEL: 925) 944-2856
Attn: Kent Reynolds | City Pleasant Hill | State CA | Zip Code 94523 | FAX: (925) 944-2859

Project Name: ABI Foundry | Project #: 01-ABI.011 | Sampler: (Printed Name) Nathan Cilton (Signature)

Relinquished by: (Signature and Printed Name) N. M Q Nathan Cilton 5/22/09	Date:	Time: 1500	Received by: (Signature and Printed Name) f	Date: 5/23/09	Time: 1035
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: Nathan Cilton 5/22/09 (Print Name / Date)
N. M Q (Signature)

Send Report To:
Attn: Kent Reynolds
Co: the Source Group Inc.
Address: 3451-C Vincent Rd.
City Pleasant Hill State CA Zip 94523

Bill To:
Attn:
Co: SAME
Address
City State Zip

Special Instructions/Comments:
- 0.5 reporting reporting limits
- include EDD + EDF reports
- ID: T0600100065

Sample/Records - Archival & Disposal
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.

Storage Fees (applies when storage is requested):
- Sample : $2.00 / sample / mo (after 45 days)
- Records : $1.00 / ATL workorder / mo (after 1 year)

Circle or Add Analysis(es) Requested

SPECIFY APPROPRIATE MATRIX

PRESERVATION

Q A / Q C
RTNE ☐
CT ☐
SWRCB ☐
Logcode
OTHER

ITEM	LAB USE ONLY: Batch #: / Lab No.	Sample Description: Sample I.D. / Location	Date	Time	8081A (Pesticides)	8082 (PCB)	8260B (Volatiles)	8270C (BNA)	6010B (Total Metal)	8015B (GRO) / 8020 (BTEX)	8015B (DRO)	8021 (BTEX)	TITLE 22 / CAM 17 (6010 / 7000)	TOC	RSK-175	Silica Gel clean	SOIL	WATER	GROUND WATER	WASTEWATER	TAT	Container(s) #	Container(s) Type	REMARKS
	405633 - 8	MW-9	5/22	940	X		X		X	X					X			X				E	7	
	- 9	MW-2R		1025	X		X		X				X	X	X			X				E	13	
	- 10	MW-7		1135	X		X		X						X			X				E	7	
	- 11	MW-1	↓	1215	X		X		X						X			X				E	7	

• TAT starts 8 a.m. following day if samples received after 3 p.m.

TAT: A= Overnight ≤ 24 hr | B= Emergency Next workday | C= Critical 2 Workdays | D= Urgent 3 Workdays | E= Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Preservatives: H=Hcl N=HNO_3 S=H_2SO_4 C=4°C Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$

DISTRIBUTION: **White** with report, **Yellow** to folder, **Pink** to submitter.

Rachelle Arada

From: Nathan Colton [ncolton@thesourcegroup.net]
Sent: Wednesday, May 27, 2009 9:47 AM
To: Rachelle Arada
Subject: AB&I Foundry project

Hi Rachelle,

I received a call yesterday regarding samples that arrived on Saturday morning for the AB&I Foundry site (7825 San Leandro Street). On the chain, I noted that I would like RSK-175 to be run for five of the samples but I did not specifiy the analyses. I would like the RSK-175 samples to be run for methane, ethane, and ethene. There are a total of five samples that require this anaysis.

Let me know if you have any questions.

Thank you,

Nathan Colton
Senior Staff Scientist
ncolton@thesourcegroup.net
The Source Group, Inc.
Environmental Engineering, Hydrogeologic & Management Services
3451-C Vincent Road
Pleasant Hill, CA 94523
925.944.2856 Ext.325
www.thesourcegroup.net

JUNE 2009 ANALYTICAL DATA

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 720-20391-1

Job Description: AB&I Foundry

For:
The Source Group
3451-C Vincent Road
Pleasant Hill, CA 94523

Attention: Mr. Kent Reynolds

Surinder Sidhu

Approved for release.
Surinder Sidhu
Customer Service Manager
6/5/2009 4:17 PM

Designee for
Afsaneh Salimpour
Project Manager I
afsaneh.salimpour@testamericainc.com
06/05/2009

TestAmerica Laboratories, Inc.
TestAmerica San Francisco 1220 Quarry Lane, Pleasanton, CA 94566
Tel (925) 484-1919 Fax (925) 600-3002 www.testamericainc.com

Comments
No additional comments.

Receipt
All voas were received with headspace in the sample vial.

All other samples were received in good condition within temperature requirements.

GC/MS VOA
No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: The Source Group

Job Number: 720-20391-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
720-20391-1	**SB-53-GW20**				
Acetone		390	50	ug/L	8260B
Toluene		1.0	0.50	ug/L	8260B
1,2,4-Trimethylbenzene		2.5	0.50	ug/L	8260B
1,3,5-Trimethylbenzene		0.61	0.50	ug/L	8260B
Xylenes, Total		1.9	1.0	ug/L	8260B

METHOD SUMMARY

Client: The Source Group

Job Number: 720-20391-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL SF	SW846 8260B	
Purge and Trap	TAL SF		SW846 5030B

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: The Source Group

Job Number: 720-20391-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-20391-1	SB-53-GW20	Water	06/04/2009 1110	06/04/2009 1620

Client: The Source Group | Job Number: 720-20391-1

Client Sample ID: **SB-53-GW20**

Lab Sample ID: 720-20391-1 | Date Sampled: 06/04/2009 1110
Client Matrix: Water | Date Received: 06/04/2009 1620

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B | Analysis Batch: 720-51637 | Instrument ID: Chemstation 3.0 on 95PC
Preparation: 5030B | Lab File ID: 06040912.D
Dilution: 1.0 | Initial Weight/Volume: 10 mL
Date Analyzed: 06/04/2009 1746 | Final Weight/Volume: 10 mL
Date Prepared: 06/04/2009 1746

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		5.0
Acetone	390		50
Benzene	ND		0.50
Dichlorobromomethane	ND		0.50
Bromobenzene	ND		1.0
Chlorobromomethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
2-Butanone (MEK)	ND		50
n-Butylbenzene	ND		1.0
sec-Butylbenzene	ND		1.0
tert-Butylbenzene	ND		1.0
Carbon disulfide	ND		5.0
Carbon tetrachloride	ND		0.50
Chlorobenzene	ND		0.50
Chloroethane	ND		1.0
Chloroform	ND		1.0
Chloromethane	ND		1.0
2-Chlorotoluene	ND		0.50
4-Chlorotoluene	ND		0.50
Chlorodibromomethane	ND		0.50
1,2-Dichlorobenzene	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
1,3-Dichloropropane	ND		1.0
1,1-Dichloropropene	ND		0.50
1,2-Dibromo-3-Chloropropane	ND		1.0
Ethylene Dibromide	ND		0.50
Dibromomethane	ND		0.50
Dichlorodifluoromethane	ND		0.50
1,1-Dichloroethane	ND		0.50
1,2-Dichloroethane	ND		0.50
1,1-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
trans-1,2-Dichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
Ethylbenzene	ND		0.50
Hexachlorobutadiene	ND		1.0
2-Hexanone	ND		50
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		1.0
Methylene Chloride	ND		5.0

Client: The Source Group | Job Number: 720-20391-1

Client Sample ID: **SB-53-GW20**

Lab Sample ID: 720-20391-1 | Date Sampled: 06/04/2009 1110
Client Matrix: Water | Date Received: 06/04/2009 1620

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B | Analysis Batch: 720-51637 | Instrument ID: Chemstation 3.0 on 95PC
Preparation: 5030B | Lab File ID: 06040912.D
Dilution: 1.0 | Initial Weight/Volume: 10 mL
Date Analyzed: 06/04/2009 1746 | Final Weight/Volume: 10 mL
Date Prepared: 06/04/2009 1746

Analyte	Result (ug/L)	Qualifier	RL
4-Methyl-2-pentanone (MIBK)	ND		50
Naphthalene	ND		1.0
N-Propylbenzene	ND		1.0
Styrene	ND		0.50
1,1,1,2-Tetrachloroethane	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
Tetrachloroethene	ND		0.50
Toluene	1.0		0.50
1,2,3-Trichlorobenzene	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,1,1-Trichloroethane	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Trichloroethene	ND		0.50
Trichlorofluoromethane	ND		1.0
1,2,3-Trichloropropane	ND		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
1,2,4-Trimethylbenzene	2.5		0.50
1,3,5-Trimethylbenzene	0.61		0.50
Vinyl acetate	ND		50
Vinyl chloride	ND		0.50
Xylenes, Total	1.9		1.0
2,2-Dichloropropane	ND		0.50

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	94	67 - 130
1,2-Dichloroethane-d4 (Surr)	89	67 - 130
Toluene-d8 (Surr)	95	70 - 130

DATA REPORTING QUALIFIERS

Lab Section	Qualifier	Description

Client: The Source Group

Job Number: 720-20391-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:720-51637					
LCS 720-51637/3	Lab Control Sample	T	Water	8260B	
LCSD 720-51637/4	Lab Control Sample Duplicate	T	Water	8260B	
MB 720-51637/5	Method Blank	T	Water	8260B	
720-20391-1	SB-53-GW20	T	Water	8260B	

Report Basis

T = Total

Client: The Source Group

Job Number: 720-20391-1

Method Blank - Batch: 720-51637

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-51637/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/04/2009 1400
Date Prepared: 06/04/2009 1400

Analysis Batch: 720-51637
Prep Batch: N/A
Units: ug/L

Instrument ID: Chemstation 3.0 on 95PC
Lab File ID: 06040906.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Methyl tert-butyl ether	ND		5.0
Acetone	ND		50
Benzene	ND		0.50
Dichlorobromomethane	ND		0.50
Bromobenzene	ND		1.0
Chlorobromomethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
2-Butanone (MEK)	ND		50
n-Butylbenzene	ND		1.0
sec-Butylbenzene	ND		1.0
tert-Butylbenzene	ND		1.0
Carbon disulfide	ND		5.0
Carbon tetrachloride	ND		0.50
Chlorobenzene	ND		0.50
Chloroethane	ND		1.0
Chloroform	ND		1.0
Chloromethane	ND		1.0
2-Chlorotoluene	ND		0.50
4-Chlorotoluene	ND		0.50
Chlorodibromomethane	ND		0.50
1,2-Dichlorobenzene	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
1,3-Dichloropropane	ND		1.0
1,1-Dichloropropene	ND		0.50
1,2-Dibromo-3-Chloropropane	ND		1.0
Ethylene Dibromide	ND		0.50
Dibromomethane	ND		0.50
Dichlorodifluoromethane	ND		0.50
1,1-Dichloroethane	ND		0.50
1,2-Dichloroethane	ND		0.50
1,1-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
trans-1,2-Dichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
Ethylbenzene	ND		0.50
Hexachlorobutadiene	ND		1.0
2-Hexanone	ND		50

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: The Source Group

Job Number: 720-20391-1

Method Blank - Batch: 720-51637

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-51637/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/04/2009 1400
Date Prepared: 06/04/2009 1400

Analysis Batch: 720-51637
Prep Batch: N/A
Units: ug/L

Instrument ID: Chemstation 3.0 on 95PC
Lab File ID: 06040906.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		1.0
Methylene Chloride	ND		5.0
4-Methyl-2-pentanone (MIBK)	ND		50
Naphthalene	ND		1.0
N-Propylbenzene	ND		1.0
Styrene	ND		0.50
1,1,1,2-Tetrachloroethane	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
Tetrachloroethene	ND		0.50
Toluene	ND		0.50
1,2,3-Trichlorobenzene	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,1,1-Trichloroethane	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Trichloroethene	ND		0.50
Trichlorofluoromethane	ND		1.0
1,2,3-Trichloropropane	ND		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
1,2,4-Trimethylbenzene	ND		0.50
1,3,5-Trimethylbenzene	ND		0.50
Vinyl acetate	ND		50
Vinyl chloride	ND		0.50
Xylenes, Total	ND		1.0
2,2-Dichloropropane	ND		0.50

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	90	67 - 130
1,2-Dichloroethane-d4 (Surr)	98	67 - 130
Toluene-d8 (Surr)	91	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: The Source Group

Job Number: 720-20391-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 720-51637

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 720-51637/3	Analysis Batch:	720-51637	Instrument ID:	Chemstation 3.0 on 95PC
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	06040904.D
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	10 mL
Date Analyzed:	06/04/2009 1256			Final Weight/Volume:	10 mL
Date Prepared:	06/04/2009 1256				

LCSD Lab Sample ID:	LCSD 720-51637/4	Analysis Batch:	720-51637	Instrument ID:	Chemstation 3.0 on 95PC
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	06040905.D
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	10 mL
Date Analyzed:	06/04/2009 1328			Final Weight/Volume:	10 mL
Date Prepared:	06/04/2009 1328				

	% Rec.					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Benzene	112	112	70 - 130	0	20		
Chlorobenzene	109	109	70 - 130	0	20		
1,1-Dichloroethene	102	102	70 - 130	0	20		
Toluene	113	113	70 - 130	0	20		
Trichloroethene	114	114	70 - 130	0	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	103	101	67 - 130
1,2-Dichloroethane-d4 (Surr)	94	95	67 - 130
Toluene-d8 (Surr)	97	96	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Reference #: 116885

TestAmerica

TESTAMERICA San Francisco Chain of Custody

1220 Quarry Lane ● Pleasanton CA 94566-4756
Phone (925) 484-1919 ● Fax: (925) 600-3002

720-20391

Date 6/4/09 Page 1 of 1

Report To

Attn: Kent Reynolds
Company: The Source Group, Inc.
Address: 3451-C Vincent Rd.
Phone: (925) 944-2856 Email: kreynolds@the...
Bill To: The Source Group
Sampled By: NC
Attn: Kent Reynolds Phone: 925 944 2856

Analysis Request

Sample ID	Date	Time	Matrix	Preserv.	TPH EPA - ☐ 8015/8021 ☐ 8260B ☐ Gas w/ ☐ BTEX ☐ MTBE	Purgeable Aromatics BTEX EPA - ☐ 8021 ☐ 8260B	TEPH EPA 8015M* ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other	Fuel Tests EPA 8260B: ☐ Gas ☐ BTEX ☐ Five Oxyenates ☐ DCA, EDB ☐ Ethanol	Purgeable Halocarbons (HVOCs) EPA 8021 by 8260B	Volatile Organics GC/MS (VOCs) ☒ EPA 8260B ☐ 624	Semivolatiles GC/MS ☐ EPA 8270 ☐ 625	Oil and Grease ☐ Petroleum (EPA 1664) ☐ Total	Pesticides ☐ EPA 8081 ☐ 608 PCBs ☐ EPA 8082 ☐ 608	PNAs by ☐ 8270 ☐ 8310	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ Lead ☐ LUFT ☐ RCRA ☐ Other	Low Level Metals by EPA 200.8/6020 (ICP-MS):	☐ W.E.T (STLC) ☐ TCLP	☐ Hexavalent Chromium ☐ pH (24h hold time for H_2O)	☐ Spec Cond ☐ Alkalinity ☐ TSS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4					Number of Containers
SB-53-GW20	6/4	1110	GW	HCl						X																4

Project Info.	Sample Receipt
Project Name: AB+I Foundry	# of Containers: 4
Project#: 01-ABJ.001	Head Space:
PO#:	Temp:
Credit Card#:	Conforms to record:

TAT: 5 Day | 72h | 48h | (24h) | Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ State Tank Fund EDF ☐ Global ID

Special Instructions / Comments:

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: [signature] Time: 1138	Signature: [signature] Time: 1620	Signature: Time:
Printed Name: Nathan Clifton Date: 6/4/09	Printed Name: Fultcher Date: 6/4/09	Printed Name: Date:
Company: SGI	Company: TASF	Company:

1) Received by:	2) Received by:	3) Received by:
Signature: [signature] Time: 1138	Signature: [signature] Time: 1620	Signature: Time:
Printed Name: Fultcher Date: 6/4/09	Printed Name: DUTCH Date: 6/4/09	Printed Name: Date:
Company: TASF	Company: TASF	Company:

See Terms and Conditions on reverse
*TestAmerica SF reports 8015M from C_9-C_{24} (industry norm). Default for 8015B is C_{10}-C_{28}

Rev02/09

3.2°C

Login Sample Receipt Check List

Client: The Source Group

Job Number: 720-20391-1

Login Number: 20391

List Source: TestAmerica San Francisco

Creator: Hoang, Julie

List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	False	NCM
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

JULY 2009 ANALYTICAL DATA

July 13, 2009

Kent Reynolds
The Source Group Inc.
3451 Vincent Dr., Suite C
Pleasant Hill, CA 94523

TEL: (925) 944-2856
FAX: (925) 944-2859

ELAP No.: 1838
NELAP No.: 02107CA
NEVADA.: CA-401
CSDLAC No.: 10196

Workorder No.: 106235

RE: AB&I Foundry, 01-ABI.001

Attention: Kent Reynolds

Enclosed are the results for sample(s) received on July 02, 2009 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez
Laboratory Director

CLIENT: The Source Group Inc.
Project: AB&I Foundry, 01-ABI.001
Lab Order: 106235

CASE NARRATIVE

The samples for RSK-175 analysis were subcontracted to Air Technology Laboratory.

Analytical Comments for EPA 8015B(M) (DRO)

1. Silica Gel Cleanup was performed on sample prior to the analysis, per client request.

2. Sample MB-56471MSD, Matrix Spike Duplicate (MSD) is outside recovery criteria; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

Analytical Comments for EPA 8260B

Results were J-Flag. "J" is used to flag those results that are between the PQL (Practical Quantitation Limit) and the calculated MDL (Method Detection Limit). Results that are "J" Flagged are estimated values since it becomes difficult to accurately quantitate the analyte near the MDL.

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

CLIENT:	The Source Group Inc.	**Client Sample ID:**	MW-9
Lab Order:	106235	**Collection Date:**	7/1/2009 10:10:00 AM
Project:	AB&I Foundry, 01-ABI.001	**Matrix:**	GROUNDWATER
Lab ID:	106235-001A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS2_090706B** QC Batch: **Q09VW129** PrepDate: Analyst: **SLL**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.45	0.50		µg/L	1	7/6/2009 11:55 PM
1,1,1-Trichloroethane	ND	0.27	0.50		µg/L	1	7/6/2009 11:55 PM
1,1,2,2-Tetrachloroethane	ND	0.35	0.50		µg/L	1	7/6/2009 11:55 PM
1,1,2-Trichloroethane	ND	0.43	0.50		µg/L	1	7/6/2009 11:55 PM
1,1-Dichloroethane	ND	0.17	0.50		µg/L	1	7/6/2009 11:55 PM
1,1-Dichloroethene	ND	0.19	0.50		µg/L	1	7/6/2009 11:55 PM
1,1-Dichloropropene	ND	0.30	0.50		µg/L	1	7/6/2009 11:55 PM
1,2,3-Trichlorobenzene	ND	0.48	0.50		µg/L	1	7/6/2009 11:55 PM
1,2,3-Trichloropropane	ND	0.24	0.50		µg/L	1	7/6/2009 11:55 PM
1,2,4-Trichlorobenzene	ND	0.43	0.50		µg/L	1	7/6/2009 11:55 PM
1,2,4-Trimethylbenzene	ND	0.44	0.50		µg/L	1	7/6/2009 11:55 PM
1,2-Dibromo-3-chloropropane	ND	0.35	0.50		µg/L	1	7/6/2009 11:55 PM
1,2-Dibromoethane	ND	0.37	0.50		µg/L	1	7/6/2009 11:55 PM
1,2-Dichlorobenzene	ND	0.27	0.50		µg/L	1	7/6/2009 11:55 PM
1,2-Dichloroethane	ND	0.16	0.50		µg/L	1	7/6/2009 11:55 PM
1,2-Dichloropropane	ND	0.20	0.50		µg/L	1	7/6/2009 11:55 PM
1,3,5-Trimethylbenzene	0.59	0.36	0.50		µg/L	1	7/6/2009 11:55 PM
1,3-Dichlorobenzene	ND	0.28	0.50		µg/L	1	7/6/2009 11:55 PM
1,3-Dichloropropane	ND	0.32	0.50		µg/L	1	7/6/2009 11:55 PM
1,4-Dichlorobenzene	ND	0.24	0.50		µg/L	1	7/6/2009 11:55 PM
2,2-Dichloropropane	ND	0.32	0.50		µg/L	1	7/6/2009 11:55 PM
2-Chlorotoluene	ND	0.31	0.50		µg/L	1	7/6/2009 11:55 PM
4-Chlorotoluene	ND	0.23	0.50		µg/L	1	7/6/2009 11:55 PM
4-Isopropyltoluene	4.9	0.36	0.50		µg/L	1	7/6/2009 11:55 PM
Benzene	53	0.17	0.50		µg/L	1	7/6/2009 11:55 PM
Bromobenzene	ND	0.21	0.50		µg/L	1	7/6/2009 11:55 PM
Bromodichloromethane	ND	0.39	0.50		µg/L	1	7/6/2009 11:55 PM
Bromoform	ND	0.30	0.50		µg/L	1	7/6/2009 11:55 PM
Bromomethane	ND	0.32	0.50		µg/L	1	7/6/2009 11:55 PM
Carbon tetrachloride	ND	0.38	0.50		µg/L	1	7/6/2009 11:55 PM
Chlorobenzene	ND	0.28	0.50		µg/L	1	7/6/2009 11:55 PM
Chloroethane	ND	0.35	0.50		µg/L	1	7/6/2009 11:55 PM
Chloroform	ND	0.23	0.50		µg/L	1	7/6/2009 11:55 PM
Chloromethane	ND	0.32	0.50		µg/L	1	7/6/2009 11:55 PM
cis-1,2-Dichloroethene	ND	0.15	0.50		µg/L	1	7/6/2009 11:55 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

CLIENT:	The Source Group Inc.	**Client Sample ID:**	MW-9
Lab Order:	106235	**Collection Date:**	7/1/2009 10:10:00 AM
Project:	AB&I Foundry, 01-ABI.001	**Matrix:**	GROUNDWATER
Lab ID:	106235-001A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS2_090706B** QC Batch: **Q09VW129** PrepDate: Analyst: **SLL**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.29	0.50		µg/L	1	7/6/2009 11:55 PM
Dibromochloromethane	ND	0.40	0.50		µg/L	1	7/6/2009 11:55 PM
Dibromomethane	ND	0.19	0.50		µg/L	1	7/6/2009 11:55 PM
Dichlorodifluoromethane	ND	0.33	0.50		µg/L	1	7/6/2009 11:55 PM
Ethylbenzene	9.5	0.22	0.50		µg/L	1	7/6/2009 11:55 PM
Hexachlorobutadiene	ND	0.28	0.50		µg/L	1	7/6/2009 11:55 PM
Isopropylbenzene	34	0.30	0.50		µg/L	1	7/6/2009 11:55 PM
m,p-Xylene	2.5	0.49	1.0		µg/L	1	7/6/2009 11:55 PM
Methylene chloride	ND	1.0	1.0		µg/L	1	7/6/2009 11:55 PM
n-Butylbenzene	5.7	0.30	0.50		µg/L	1	7/6/2009 11:55 PM
n-Propylbenzene	44	0.36	0.50		µg/L	1	7/6/2009 11:55 PM
Naphthalene	3.3	0.35	0.50		µg/L	1	7/6/2009 11:55 PM
o-Xylene	0.28	0.27	0.50	J	µg/L	1	7/6/2009 11:55 PM
sec-Butylbenzene	5.9	0.33	0.50		µg/L	1	7/6/2009 11:55 PM
Styrene	ND	0.38	0.50		µg/L	1	7/6/2009 11:55 PM
tert-Butylbenzene	0.52	0.35	0.50		µg/L	1	7/6/2009 11:55 PM
Tetrachloroethene	ND	0.19	0.50		µg/L	1	7/6/2009 11:55 PM
Toluene	2.0	0.22	0.50		µg/L	1	7/6/2009 11:55 PM
trans-1,2-Dichloroethene	ND	0.22	0.50		µg/L	1	7/6/2009 11:55 PM
Trichloroethene	ND	0.15	0.50		µg/L	1	7/6/2009 11:55 PM
Trichlorofluoromethane	ND	0.26	0.50		µg/L	1	7/6/2009 11:55 PM
Vinyl chloride	ND	0.34	0.50		µg/L	1	7/6/2009 11:55 PM
Surr: 1,2-Dichloroethane-d4	107	0	70-130		%REC	1	7/6/2009 11:55 PM
Surr: 4-Bromofluorobenzene	93.0	0	70-130		%REC	1	7/6/2009 11:55 PM
Surr: Dibromofluoromethane	83.0	0	70-130		%REC	1	7/6/2009 11:55 PM
Surr: Toluene-d8	99.4	0	70-130		%REC	1	7/6/2009 11:55 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

CLIENT:	The Source Group Inc.	**Client Sample ID:**	MW-3
Lab Order:	106235	**Collection Date:**	7/1/2009 11:00:00 AM
Project:	AB&I Foundry, 01-ABI.001	**Matrix:**	GROUNDWATER
Lab ID:	106235-002A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS2_090706B** QC Batch: **Q09VW129** PrepDate: Analyst: **SLL**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	2.3	2.5		µg/L	5	7/6/2009 10:08 PM
1,1,1-Trichloroethane	ND	1.3	2.5		µg/L	5	7/6/2009 10:08 PM
1,1,2,2-Tetrachloroethane	ND	1.7	2.5		µg/L	5	7/6/2009 10:08 PM
1,1,2-Trichloroethane	ND	2.2	2.5		µg/L	5	7/6/2009 10:08 PM
1,1-Dichloroethane	160	0.83	2.5		µg/L	5	7/6/2009 10:08 PM
1,1-Dichloroethene	620	9.5	25		µg/L	50	7/6/2009 10:29 PM
1,1-Dichloropropene	ND	1.5	2.5		µg/L	5	7/6/2009 10:08 PM
1,2,3-Trichlorobenzene	ND	2.4	2.5		µg/L	5	7/6/2009 10:08 PM
1,2,3-Trichloropropane	ND	1.2	2.5		µg/L	5	7/6/2009 10:08 PM
1,2,4-Trichlorobenzene	ND	2.2	2.5		µg/L	5	7/6/2009 10:08 PM
1,2,4-Trimethylbenzene	ND	2.2	2.5		µg/L	5	7/6/2009 10:08 PM
1,2-Dibromo-3-chloropropane	ND	1.8	2.5		µg/L	5	7/6/2009 10:08 PM
1,2-Dibromoethane	ND	1.9	2.5		µg/L	5	7/6/2009 10:08 PM
1,2-Dichlorobenzene	ND	1.4	2.5		µg/L	5	7/6/2009 10:08 PM
1,2-Dichloroethane	ND	0.82	2.5		µg/L	5	7/6/2009 10:08 PM
1,2-Dichloropropane	ND	1.0	2.5		µg/L	5	7/6/2009 10:08 PM
1,3,5-Trimethylbenzene	ND	1.8	2.5		µg/L	5	7/6/2009 10:08 PM
1,3-Dichlorobenzene	ND	1.4	2.5		µg/L	5	7/6/2009 10:08 PM
1,3-Dichloropropane	ND	1.6	2.5		µg/L	5	7/6/2009 10:08 PM
1,4-Dichlorobenzene	ND	1.2	2.5		µg/L	5	7/6/2009 10:08 PM
2,2-Dichloropropane	ND	1.6	2.5		µg/L	5	7/6/2009 10:08 PM
2-Chlorotoluene	ND	1.5	2.5		µg/L	5	7/6/2009 10:08 PM
4-Chlorotoluene	ND	1.2	2.5		µg/L	5	7/6/2009 10:08 PM
4-Isopropyltoluene	ND	1.8	2.5		µg/L	5	7/6/2009 10:08 PM
Benzene	ND	0.85	2.5		µg/L	5	7/6/2009 10:08 PM
Bromobenzene	ND	1.1	2.5		µg/L	5	7/6/2009 10:08 PM
Bromodichloromethane	ND	1.9	2.5		µg/L	5	7/6/2009 10:08 PM
Bromoform	ND	1.5	2.5		µg/L	5	7/6/2009 10:08 PM
Bromomethane	ND	1.6	2.5		µg/L	5	7/6/2009 10:08 PM
Carbon tetrachloride	ND	1.9	2.5		µg/L	5	7/6/2009 10:08 PM
Chlorobenzene	ND	1.4	2.5		µg/L	5	7/6/2009 10:08 PM
Chloroethane	ND	1.8	2.5		µg/L	5	7/6/2009 10:08 PM
Chloroform	ND	1.2	2.5		µg/L	5	7/6/2009 10:08 PM
Chloromethane	ND	1.6	2.5		µg/L	5	7/6/2009 10:08 PM
cis-1,2-Dichloroethene	7.5	0.74	2.5		µg/L	5	7/6/2009 10:08 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	The Source Group Inc.	**Client Sample ID:**	MW-3
Lab Order:	106235	**Collection Date:**	7/1/2009 11:00:00 AM
Project:	AB&I Foundry, 01-ABI.001	**Matrix:**	GROUNDWATER
Lab ID:	106235-002A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS2_090706B** QC Batch: **Q09VW129** PrepDate: Analyst: **SLL**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	1.4	2.5		µg/L	5	7/6/2009 10:08 PM
Dibromochloromethane	ND	2.0	2.5		µg/L	5	7/6/2009 10:08 PM
Dibromomethane	ND	0.93	2.5		µg/L	5	7/6/2009 10:08 PM
Dichlorodifluoromethane	ND	1.6	2.5		µg/L	5	7/6/2009 10:08 PM
Ethylbenzene	ND	1.1	2.5		µg/L	5	7/6/2009 10:08 PM
Hexachlorobutadiene	ND	1.4	2.5		µg/L	5	7/6/2009 10:08 PM
Isopropylbenzene	ND	1.5	2.5		µg/L	5	7/6/2009 10:08 PM
m,p-Xylene	ND	2.5	5.0		µg/L	5	7/6/2009 10:08 PM
Methylene chloride	ND	5.0	5.0		µg/L	5	7/6/2009 10:08 PM
n-Butylbenzene	ND	1.5	2.5		µg/L	5	7/6/2009 10:08 PM
n-Propylbenzene	ND	1.8	2.5		µg/L	5	7/6/2009 10:08 PM
Naphthalene	ND	1.8	2.5		µg/L	5	7/6/2009 10:08 PM
o-Xylene	ND	1.3	2.5		µg/L	5	7/6/2009 10:08 PM
sec-Butylbenzene	ND	1.6	2.5		µg/L	5	7/6/2009 10:08 PM
Styrene	ND	1.9	2.5		µg/L	5	7/6/2009 10:08 PM
tert-Butylbenzene	ND	1.8	2.5		µg/L	5	7/6/2009 10:08 PM
Tetrachloroethene	ND	0.97	2.5		µg/L	5	7/6/2009 10:08 PM
Toluene	8.4	1.1	2.5		µg/L	5	7/6/2009 10:08 PM
trans-1,2-Dichloroethene	ND	1.1	2.5		µg/L	5	7/6/2009 10:08 PM
Trichloroethene	ND	0.74	2.5		µg/L	5	7/6/2009 10:08 PM
Trichlorofluoromethane	ND	1.3	2.5		µg/L	5	7/6/2009 10:08 PM
Vinyl chloride	6.7	1.7	2.5		µg/L	5	7/6/2009 10:08 PM
Surr: 1,2-Dichloroethane-d4	80.9	0	70-130		%REC	5	7/6/2009 10:08 PM
Surr: 1,2-Dichloroethane-d4	77.8	0	70-130		%REC	50	7/6/2009 10:29 PM
Surr: 4-Bromofluorobenzene	82.4	0	70-130		%REC	5	7/6/2009 10:08 PM
Surr: 4-Bromofluorobenzene	82.0	0	70-130		%REC	50	7/6/2009 10:29 PM
Surr: Dibromofluoromethane	80.6	0	70-130		%REC	5	7/6/2009 10:08 PM
Surr: Dibromofluoromethane	78.8	0	70-130		%REC	50	7/6/2009 10:29 PM
Surr: Toluene-d8	86.5	0	70-130		%REC	50	7/6/2009 10:29 PM
Surr: Toluene-d8	86.4	0	70-130		%REC	5	7/6/2009 10:08 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

CLIENT:	The Source Group Inc.	**Client Sample ID:**	MW-8
Lab Order:	106235	**Collection Date:**	7/1/2009 11:55:00 AM
Project:	AB&I Foundry, 01-ABI.001	**Matrix:**	GROUNDWATER
Lab ID:	106235-003A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS2_090706B** QC Batch: **Q09VW129** PrepDate: Analyst: **SLL**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	2.3	2.5		µg/L	5	7/6/2009 10:50 PM
1,1,1-Trichloroethane	960	27	50		µg/L	100	7/7/2009 04:52 PM
1,1,2,2-Tetrachloroethane	ND	1.7	2.5		µg/L	5	7/6/2009 10:50 PM
1,1,2-Trichloroethane	ND	2.2	2.5		µg/L	5	7/6/2009 10:50 PM
1,1-Dichloroethane	1200	17	50		µg/L	100	7/7/2009 04:52 PM
1,1-Dichloroethene	1100	19	50		µg/L	100	7/7/2009 04:52 PM
1,1-Dichloropropene	ND	1.5	2.5		µg/L	5	7/6/2009 10:50 PM
1,2,3-Trichlorobenzene	ND	2.4	2.5		µg/L	5	7/6/2009 10:50 PM
1,2,3-Trichloropropane	ND	1.2	2.5		µg/L	5	7/6/2009 10:50 PM
1,2,4-Trichlorobenzene	ND	2.2	2.5		µg/L	5	7/6/2009 10:50 PM
1,2,4-Trimethylbenzene	ND	2.2	2.5		µg/L	5	7/6/2009 10:50 PM
1,2-Dibromo-3-chloropropane	ND	1.8	2.5		µg/L	5	7/6/2009 10:50 PM
1,2-Dibromoethane	ND	1.9	2.5		µg/L	5	7/6/2009 10:50 PM
1,2-Dichlorobenzene	ND	1.4	2.5		µg/L	5	7/6/2009 10:50 PM
1,2-Dichloroethane	1.3	0.82	2.5	J	µg/L	5	7/6/2009 10:50 PM
1,2-Dichloropropane	ND	1.0	2.5		µg/L	5	7/6/2009 10:50 PM
1,3,5-Trimethylbenzene	ND	1.8	2.5		µg/L	5	7/6/2009 10:50 PM
1,3-Dichlorobenzene	ND	1.4	2.5		µg/L	5	7/6/2009 10:50 PM
1,3-Dichloropropane	ND	1.6	2.5		µg/L	5	7/6/2009 10:50 PM
1,4-Dichlorobenzene	ND	1.2	2.5		µg/L	5	7/6/2009 10:50 PM
2,2-Dichloropropane	ND	1.6	2.5		µg/L	5	7/6/2009 10:50 PM
2-Chlorotoluene	ND	1.5	2.5		µg/L	5	7/6/2009 10:50 PM
4-Chlorotoluene	ND	1.2	2.5		µg/L	5	7/6/2009 10:50 PM
4-Isopropyltoluene	ND	1.8	2.5		µg/L	5	7/6/2009 10:50 PM
Benzene	2.6	0.85	2.5		µg/L	5	7/6/2009 10:50 PM
Bromobenzene	ND	1.1	2.5		µg/L	5	7/6/2009 10:50 PM
Bromodichloromethane	ND	1.9	2.5		µg/L	5	7/6/2009 10:50 PM
Bromoform	ND	1.5	2.5		µg/L	5	7/6/2009 10:50 PM
Bromomethane	ND	1.6	2.5		µg/L	5	7/6/2009 10:50 PM
Carbon tetrachloride	170	1.9	2.5		µg/L	5	7/6/2009 10:50 PM
Chlorobenzene	ND	1.4	2.5		µg/L	5	7/6/2009 10:50 PM
Chloroethane	350	1.8	2.5		µg/L	5	7/6/2009 10:50 PM
Chloroform	ND	1.2	2.5		µg/L	5	7/6/2009 10:50 PM
Chloromethane	ND	1.6	2.5		µg/L	5	7/6/2009 10:50 PM
cis-1,2-Dichloroethene	ND	0.74	2.5		µg/L	5	7/6/2009 10:50 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	The Source Group Inc.	**Client Sample ID:**	MW-8
Lab Order:	106235	**Collection Date:**	7/1/2009 11:55:00 AM
Project:	AB&I Foundry, 01-ABI.001	**Matrix:**	GROUNDWATER
Lab ID:	106235-003A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS2_090706B** QC Batch: **Q09VW129** PrepDate: Analyst: **SLL**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	1.4	2.5		µg/L	5	7/6/2009 10:50 PM
Dibromochloromethane	ND	2.0	2.5		µg/L	5	7/6/2009 10:50 PM
Dibromomethane	ND	0.93	2.5		µg/L	5	7/6/2009 10:50 PM
Dichlorodifluoromethane	ND	1.6	2.5		µg/L	5	7/6/2009 10:50 PM
Ethylbenzene	ND	1.1	2.5		µg/L	5	7/6/2009 10:50 PM
Hexachlorobutadiene	ND	1.4	2.5		µg/L	5	7/6/2009 10:50 PM
Isopropylbenzene	ND	1.5	2.5		µg/L	5	7/6/2009 10:50 PM
m,p-Xylene	ND	2.5	5.0		µg/L	5	7/6/2009 10:50 PM
Methylene chloride	ND	5.0	5.0		µg/L	5	7/6/2009 10:50 PM
n-Butylbenzene	ND	1.5	2.5		µg/L	5	7/6/2009 10:50 PM
n-Propylbenzene	ND	1.8	2.5		µg/L	5	7/6/2009 10:50 PM
Naphthalene	ND	1.8	2.5		µg/L	5	7/6/2009 10:50 PM
o-Xylene	ND	1.3	2.5		µg/L	5	7/6/2009 10:50 PM
sec-Butylbenzene	ND	1.6	2.5		µg/L	5	7/6/2009 10:50 PM
Styrene	ND	1.9	2.5		µg/L	5	7/6/2009 10:50 PM
tert-Butylbenzene	ND	1.8	2.5		µg/L	5	7/6/2009 10:50 PM
Tetrachloroethene	ND	0.97	2.5		µg/L	5	7/6/2009 10:50 PM
Toluene	ND	1.1	2.5		µg/L	5	7/6/2009 10:50 PM
trans-1,2-Dichloroethene	ND	1.1	2.5		µg/L	5	7/6/2009 10:50 PM
Trichloroethene	ND	0.74	2.5		µg/L	5	7/6/2009 10:50 PM
Trichlorofluoromethane	ND	1.3	2.5		µg/L	5	7/6/2009 10:50 PM
Vinyl chloride	11	1.7	2.5		µg/L	5	7/6/2009 10:50 PM
Surr: 1,2-Dichloroethane-d4	84.6	0	70-130		%REC	5	7/6/2009 10:50 PM
Surr: 1,2-Dichloroethane-d4	93.2	0	70-130		%REC	100	7/7/2009 04:52 PM
Surr: 4-Bromofluorobenzene	82.2	0	70-130		%REC	5	7/6/2009 10:50 PM
Surr: 4-Bromofluorobenzene	108	0	70-130		%REC	100	7/7/2009 04:52 PM
Surr: Dibromofluoromethane	80.1	0	70-130		%REC	5	7/6/2009 10:50 PM
Surr: Dibromofluoromethane	98.8	0	70-130		%REC	100	7/7/2009 04:52 PM
Surr: Toluene-d8	118	0	70-130		%REC	100	7/7/2009 04:52 PM
Surr: Toluene-d8	86.2	0	70-130		%REC	5	7/6/2009 10:50 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

CLIENT:	The Source Group Inc.	**Client Sample ID:**	Trip Blank
Lab Order:	106235	**Collection Date:**	
Project:	AB&I Foundry, 01-ABI.001	**Matrix:**	WATER
Lab ID:	106235-004A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS2_090706B** QC Batch: **Q09VW129** PrepDate: Analyst: **SLL**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.45	0.50		µg/L	1	7/6/2009 09:48 PM
1,1,1-Trichloroethane	ND	0.27	0.50		µg/L	1	7/6/2009 09:48 PM
1,1,2,2-Tetrachloroethane	ND	0.35	0.50		µg/L	1	7/6/2009 09:48 PM
1,1,2-Trichloroethane	ND	0.43	0.50		µg/L	1	7/6/2009 09:48 PM
1,1-Dichloroethane	ND	0.17	0.50		µg/L	1	7/6/2009 09:48 PM
1,1-Dichloroethene	ND	0.19	0.50		µg/L	1	7/6/2009 09:48 PM
1,1-Dichloropropene	ND	0.30	0.50		µg/L	1	7/6/2009 09:48 PM
1,2,3-Trichlorobenzene	ND	0.48	0.50		µg/L	1	7/6/2009 09:48 PM
1,2,3-Trichloropropane	ND	0.24	0.50		µg/L	1	7/6/2009 09:48 PM
1,2,4-Trichlorobenzene	ND	0.43	0.50		µg/L	1	7/6/2009 09:48 PM
1,2,4-Trimethylbenzene	ND	0.44	0.50		µg/L	1	7/6/2009 09:48 PM
1,2-Dibromo-3-chloropropane	ND	0.35	0.50		µg/L	1	7/6/2009 09:48 PM
1,2-Dibromoethane	ND	0.37	0.50		µg/L	1	7/6/2009 09:48 PM
1,2-Dichlorobenzene	ND	0.27	0.50		µg/L	1	7/6/2009 09:48 PM
1,2-Dichloroethane	ND	0.16	0.50		µg/L	1	7/6/2009 09:48 PM
1,2-Dichloropropane	ND	0.20	0.50		µg/L	1	7/6/2009 09:48 PM
1,3,5-Trimethylbenzene	ND	0.36	0.50		µg/L	1	7/6/2009 09:48 PM
1,3-Dichlorobenzene	ND	0.28	0.50		µg/L	1	7/6/2009 09:48 PM
1,3-Dichloropropane	ND	0.32	0.50		µg/L	1	7/6/2009 09:48 PM
1,4-Dichlorobenzene	ND	0.24	0.50		µg/L	1	7/6/2009 09:48 PM
2,2-Dichloropropane	ND	0.32	0.50		µg/L	1	7/6/2009 09:48 PM
2-Chlorotoluene	ND	0.31	0.50		µg/L	1	7/6/2009 09:48 PM
4-Chlorotoluene	ND	0.23	0.50		µg/L	1	7/6/2009 09:48 PM
4-Isopropyltoluene	ND	0.36	0.50		µg/L	1	7/6/2009 09:48 PM
Benzene	ND	0.17	0.50		µg/L	1	7/6/2009 09:48 PM
Bromobenzene	ND	0.21	0.50		µg/L	1	7/6/2009 09:48 PM
Bromodichloromethane	ND	0.39	0.50		µg/L	1	7/6/2009 09:48 PM
Bromoform	ND	0.30	0.50		µg/L	1	7/6/2009 09:48 PM
Bromomethane	ND	0.32	0.50		µg/L	1	7/6/2009 09:48 PM
Carbon tetrachloride	ND	0.38	0.50		µg/L	1	7/6/2009 09:48 PM
Chlorobenzene	ND	0.28	0.50		µg/L	1	7/6/2009 09:48 PM
Chloroethane	ND	0.35	0.50		µg/L	1	7/6/2009 09:48 PM
Chloroform	ND	0.23	0.50		µg/L	1	7/6/2009 09:48 PM
Chloromethane	ND	0.32	0.50		µg/L	1	7/6/2009 09:48 PM
cis-1,2-Dichloroethene	ND	0.15	0.50		µg/L	1	7/6/2009 09:48 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

CLIENT: The Source Group Inc. **Client Sample ID:** Trip Blank
Lab Order: 106235 **Collection Date:**
Project: AB&I Foundry, 01-ABI.001 **Matrix:** WATER
Lab ID: 106235-004A

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS2_090706B**	QC Batch: **Q09VW129**				PrepDate:		Analyst: **SLL**
cis-1,3-Dichloropropene	ND	0.29	0.50		µg/L	1	7/6/2009 09:48 PM
Dibromochloromethane	ND	0.40	0.50		µg/L	1	7/6/2009 09:48 PM
Dibromomethane	ND	0.19	0.50		µg/L	1	7/6/2009 09:48 PM
Dichlorodifluoromethane	ND	0.33	0.50		µg/L	1	7/6/2009 09:48 PM
Ethylbenzene	ND	0.22	0.50		µg/L	1	7/6/2009 09:48 PM
Hexachlorobutadiene	ND	0.28	0.50		µg/L	1	7/6/2009 09:48 PM
Isopropylbenzene	ND	0.30	0.50		µg/L	1	7/6/2009 09:48 PM
m,p-Xylene	ND	0.49	1.0		µg/L	1	7/6/2009 09:48 PM
Methylene chloride	ND	1.0	1.0		µg/L	1	7/6/2009 09:48 PM
n-Butylbenzene	ND	0.30	0.50		µg/L	1	7/6/2009 09:48 PM
n-Propylbenzene	ND	0.36	0.50		µg/L	1	7/6/2009 09:48 PM
Naphthalene	ND	0.35	0.50		µg/L	1	7/6/2009 09:48 PM
o-Xylene	ND	0.27	0.50		µg/L	1	7/6/2009 09:48 PM
sec-Butylbenzene	ND	0.33	0.50		µg/L	1	7/6/2009 09:48 PM
Styrene	ND	0.38	0.50		µg/L	1	7/6/2009 09:48 PM
tert-Butylbenzene	ND	0.35	0.50		µg/L	1	7/6/2009 09:48 PM
Tetrachloroethene	ND	0.19	0.50		µg/L	1	7/6/2009 09:48 PM
Toluene	ND	0.22	0.50		µg/L	1	7/6/2009 09:48 PM
trans-1,2-Dichloroethene	ND	0.22	0.50		µg/L	1	7/6/2009 09:48 PM
Trichloroethene	ND	0.15	0.50		µg/L	1	7/6/2009 09:48 PM
Trichlorofluoromethane	ND	0.26	0.50		µg/L	1	7/6/2009 09:48 PM
Vinyl chloride	ND	0.34	0.50		µg/L	1	7/6/2009 09:48 PM
Surr: 1,2-Dichloroethane-d4	78.2	0	70-130		%REC	1	7/6/2009 09:48 PM
Surr: 4-Bromofluorobenzene	80.8	0	70-130		%REC	1	7/6/2009 09:48 PM
Surr: Dibromofluoromethane	76.0	0	70-130		%REC	1	7/6/2009 09:48 PM
Surr: Toluene-d8	86.1	0	70-130		%REC	1	7/6/2009 09:48 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified
E	Value above quantitation range
J	Analyte detected below quantitation limits
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out

CLIENT:	The Source Group Inc.	**Client Sample ID:**	MW-9
Lab Order:	106235	**Collection Date:**	7/1/2009 10:10:00 AM
Project:	AB&I Foundry, 01-ABI.001	**Matrix:**	GROUNDWATER
Lab ID:	106235-001		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SILICA GEL CLEANUP DRO BY GC-FID						
EPA 3510C				**EPA 8015B**		
RunID: GC16_090709E	QC Batch: 56471			PrepDate: 7/8/2009		Analyst: **CBR**
DRO	0.47	0.050		mg/L	1	7/9/2009 07:29 PM
Surr: p-Terphenyl	71.1	35-131		%REC	1	7/9/2009 07:29 PM
GASOLINE RANGE ORGANICS BY GC/FID						
EPA 8015B(M)						
RunID: GC6_090710A	QC Batch: I09VW0111			PrepDate:		Analyst: **BD**
GRO	3.4	0.050		mg/L	1	7/10/2009 11:51 AM
Surr: Bromofluorobenzene (FID)	101	71-130		%REC	1	7/10/2009 11:51 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	The Source Group Inc.	**Client Sample ID:**	MW-3
Lab Order:	106235	**Collection Date:**	7/1/2009 11:00:00 AM
Project:	AB&I Foundry, 01-ABI.001	**Matrix:**	GROUNDWATER
Lab ID:	106235-002		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL ORGANIC CARBON						
			SM5310B			
RunID: TOC2_090702A	QC Batch: R110470			PrepDate:		Analyst: **JSD**
Organic Carbon, Total	320	12		mg/L	4	7/2/2009 03:36 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	The Source Group Inc.	**Client Sample ID:**	MW-8
Lab Order:	106235	**Collection Date:**	7/1/2009 11:55:00 AM
Project:	AB&I Foundry, 01-ABI.001	**Matrix:**	GROUNDWATER
Lab ID:	106235-003		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL ORGANIC CARBON						
		SM5310B				
RunID: TOC2_090702A	QC Batch: R110470			PrepDate:		Analyst: **JSD**
Organic Carbon, Total	260	6.0		mg/L	2	7/2/2009 02:58 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT: The Source Group Inc.
Work Order: 106235
Project: AB&I Foundry, 01-ABI.001

ANALYTICAL QC SUMMARY REPORT

TestCode: 415.1_5310B_W

Sample ID: **MB-R110470** SampType: **MBLK** TestCode: **415.1_5310B** Units: **mg/L** Prep Date: RunNo: **110470**
Client ID: **PBW** Batch ID: **R110470** TestNo: **SM5310B** Analysis Date: **7/2/2009** SeqNo: **1737837**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Total	0.253	3.0									

Sample ID: **LCS-R110470** SampType: **LCS** TestCode: **415.1_5310B** Units: **mg/L** Prep Date: RunNo: **110470**
Client ID: **LCSW** Batch ID: **R110470** TestNo: **SM5310B** Analysis Date: **7/2/2009** SeqNo: **1737838**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Total	21.030	3.0	20.00	0.2528	104	80	120				

Sample ID: **MB-MS** SampType: **MS** TestCode: **415.1_5310B** Units: **mg/L** Prep Date: RunNo: **110470**
Client ID: **ZZZZZZ** Batch ID: **R110470** TestNo: **SM5310B** Analysis Date: **7/2/2009** SeqNo: **1737839**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Total	20.630	3.0	20.00	0.2528	102	70	130				

Sample ID: **MB-MSD** SampType: **MSD** TestCode: **415.1_5310B** Units: **mg/L** Prep Date: RunNo: **110470**
Client ID: **ZZZZZZ** Batch ID: **R110470** TestNo: **SM5310B** Analysis Date: **7/2/2009** SeqNo: **1737840**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Total	21.230	3.0	20.00	0.2528	105	70	130	20.63	2.87	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: The Source Group Inc.
Work Order: 106235
Project: AB&I Foundry, 01-ABI.001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_DSL_LLSGT

Sample ID: **MB-56471**	SampType: **MBLK**	TestCode: **8015_W_DSL**	Units: **mg/L**	Prep Date: **7/8/2009**	RunNo: **110667**
Client ID: **PBW**	Batch ID: **56471**	TestNo: **EPA 8015B**	**EPA 3510C**	Analysis Date: **7/9/2009**	SeqNo: **1742180**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	ND	0.050									
Surr: p-Terphenyl	0.037		0.08000		46.4	35	131				

Sample ID: **LCS-56471**	SampType: **LCS**	TestCode: **8015_W_DSL**	Units: **mg/L**	Prep Date: **7/8/2009**	RunNo: **110667**
Client ID: **LCSW**	Batch ID: **56471**	TestNo: **EPA 8015B**	**EPA 3510C**	Analysis Date: **7/9/2009**	SeqNo: **1742181**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	0.751	0.050	1.000	0	75.1	42	118				
Surr: p-Terphenyl	0.031		0.08000		39.2	35	131				

Sample ID: **MB-56471MS**	SampType: **MS**	TestCode: **8015_W_DSL**	Units: **mg/L**	Prep Date: **7/8/2009**	RunNo: **110667**
Client ID: **ZZZZZZ**	Batch ID: **56471**	TestNo: **EPA 8015B**	**EPA 3510C**	Analysis Date: **7/10/2009**	SeqNo: **1742199**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	0.500	0.050	1.000	0	50.0	42	118				
Surr: p-Terphenyl	0.034		0.08000		42.8	35	131				

Sample ID: **MB-56471MSD**	SampType: **MSD**	TestCode: **8015_W_DSL**	Units: **mg/L**	Prep Date: **7/8/2009**	RunNo: **110667**
Client ID: **ZZZZZZ**	Batch ID: **56471**	TestNo: **EPA 8015B**	**EPA 3510C**	Analysis Date: **7/10/2009**	SeqNo: **1742200**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	0.465	0.050	1.000	0	46.5	42	118	0.5000	7.16	20	
Surr: p-Terphenyl	0.023		0.08000		28.4	35	131		0	0	S

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: The Source Group Inc.
Work Order: 106235
Project: AB&I Foundry, 01-ABI.001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_GP LL

Sample ID: **090710MB1MS**	SampType: **MS**	TestCode: **8015_W_GP**	Units: **mg/L**	Prep Date:	RunNo: **110675**
Client ID: **ZZZZZZ**	Batch ID: **I09VW0111**	TestNo: **EPA 8015B(M**		Analysis Date: **7/10/2009**	SeqNo: **1742083**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	0.900	0.050	1.000	0	90.0	69	125				
Surr: Bromofluorobenzene (FID)	106.093		100.0		106	71	130				

Sample ID: **090710MB1MSD**	SampType: **MSD**	TestCode: **8015_W_GP**	Units: **mg/L**	Prep Date:	RunNo: **110675**
Client ID: **ZZZZZZ**	Batch ID: **I09VW0111**	TestNo: **EPA 8015B(M**		Analysis Date: **7/10/2009**	SeqNo: **1742084**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	0.839	0.050	1.000	0	83.9	69	125	0.9000	7.02	20	
Surr: Bromofluorobenzene (FID)	106.290		100.0		106	71	130		0	0	

Sample ID: **090710MB1**	SampType: **MBLK**	TestCode: **8015_W_GP**	Units: **mg/L**	Prep Date:	RunNo: **110675**
Client ID: **PBW**	Batch ID: **I09VW0111**	TestNo: **EPA 8015B(M**		Analysis Date: **7/10/2009**	SeqNo: **1742085**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	ND	0.050									
Surr: Bromofluorobenzene (FID)	104.361		100.0		104	71	130				

Sample ID: **090710LCS3**	SampType: **LCS**	TestCode: **8015_W_GP**	Units: **mg/L**	Prep Date:	RunNo: **110675**
Client ID: **LCSW**	Batch ID: **I09VW0111**	TestNo: **EPA 8015B(M**		Analysis Date: **7/10/2009**	SeqNo: **1742086**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	0.869	0.050	1.000	0	86.9	69	125				
Surr: Bromofluorobenzene (FID)	109.163		100.0		109	71	130				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits

Calculations are based on raw values

- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: The Source Group Inc.
Work Order: 106235
Project: AB&I Foundry, 01-ABI.001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **Q090706LCS2** SampType: **LCS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **110533**
Client ID: **LCSW** Batch ID: **Q09VW129** TestNo: **EPA 8260B** Analysis Date: **7/6/2009** SeqNo: **1739315**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	18.400	0.50	20.00	0	92.0	70	130				
Benzene	37.150	0.50	40.00	0	92.9	70	130				
Chlorobenzene	19.080	0.50	20.00	0	95.4	70	130				
MTBE	17.760	0.50	20.00	0	88.8	70	130				
Toluene	36.690	0.50	40.00	0	91.7	70	130				
Trichloroethene	17.680	0.50	20.00	0	88.4	70	130				
Surr: 1,2-Dichloroethane-d4	20.980		25.00		83.9	70	130				
Surr: 4-Bromofluorobenzene	21.490		25.00		86.0	70	130				
Surr: Dibromofluoromethane	20.850		25.00		83.4	70	130				
Surr: Toluene-d8	22.040		25.00		88.2	70	130				

Sample ID: **Q090706MB4MS** SampType: **MS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **110533**
Client ID: **ZZZZZZ** Batch ID: **Q09VW129** TestNo: **EPA 8260B** Analysis Date: **7/6/2009** SeqNo: **1739316**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	15.590	0.50	20.00	0	78.0	70	130				
Benzene	38.590	0.50	40.00	0	96.5	70	130				
Chlorobenzene	19.930	0.50	20.00	0	99.7	70	130				
Toluene	37.930	0.50	40.00	0	94.8	70	130				
Trichloroethene	17.240	0.50	20.00	0	86.2	70	130				
Surr: 1,2-Dichloroethane-d4	20.870		25.00		83.5	70	130				
Surr: 4-Bromofluorobenzene	22.150		25.00		88.6	70	130				
Surr: Dibromofluoromethane	21.580		25.00		86.3	70	130				
Surr: Toluene-d8	22.850		25.00		91.4	70	130				

Sample ID: **Q090706MB4MSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **110533**
Client ID: **ZZZZZZ** Batch ID: **Q09VW129** TestNo: **EPA 8260B** Analysis Date: **7/6/2009** SeqNo: **1739317**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	14.120	0.50	20.00	0	70.6	70	130	15.59	9.90	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: The Source Group Inc.
Work Order: 106235
Project: AB&I Foundry, 01-ABI.001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **Q090706MB4MSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **110533**
Client ID: **ZZZZZZ** Batch ID: **Q09VW129** TestNo: **EPA 8260B** Analysis Date: **7/6/2009** SeqNo: **1739317**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	37.040	0.50	40.00	0	92.6	70	130	38.59	4.10	20	
Chlorobenzene	19.470	0.50	20.00	0	97.4	70	130	19.93	2.34	20	
Toluene	36.880	0.50	40.00	0	92.2	70	130	37.93	2.81	20	
Trichloroethene	17.330	0.50	20.00	0	86.7	70	130	17.24	0.521	20	
Surr: 1,2-Dichloroethane-d4	19.940		25.00		79.8	70	130		0	20	
Surr: 4-Bromofluorobenzene	21.150		25.00		84.6	70	130		0	20	
Surr: Dibromofluoromethane	20.390		25.00		81.6	70	130		0	20	
Surr: Toluene-d8	21.890		25.00		87.6	70	130		0	20	

Sample ID: **Q090706MB4** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **110533**
Client ID: **PBW** Batch ID: **Q09VW129** TestNo: **EPA 8260B** Analysis Date: **7/6/2009** SeqNo: **1739318**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	0.50									
1,1,1-Trichloroethane	ND	0.50									
1,1,2,2-Tetrachloroethane	ND	0.50									
1,1,2-Trichloroethane	ND	0.50									
1,1-Dichloroethane	ND	0.50									
1,1-Dichloroethene	ND	0.50									
1,1-Dichloropropene	ND	0.50									
1,2,3-Trichlorobenzene	ND	0.50									
1,2,3-Trichloropropane	ND	0.50									
1,2,4-Trichlorobenzene	ND	0.50									
1,2,4-Trimethylbenzene	ND	0.50									
1,2-Dibromo-3-chloropropane	ND	0.50									
1,2-Dibromoethane	ND	0.50									
1,2-Dichlorobenzene	ND	0.50									
1,2-Dichloroethane	ND	0.50									
1,2-Dichloropropane	ND	0.50									
1,3,5-Trimethylbenzene	ND	0.50									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: The Source Group Inc.
Work Order: 106235
Project: AB&I Foundry, 01-ABI.001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **Q090706MB4** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **110533**
Client ID: **PBW** Batch ID: **Q09VW129** TestNo: **EPA 8260B** Analysis Date: **7/6/2009** SeqNo: **1739318**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Dichlorobenzene	ND	0.50									
1,3-Dichloropropane	ND	0.50									
1,4-Dichlorobenzene	ND	0.50									
2,2-Dichloropropane	ND	0.50									
2-Chlorotoluene	ND	0.50									
4-Chlorotoluene	ND	0.50									
4-Isopropyltoluene	ND	0.50									
Benzene	ND	0.50									
Bromobenzene	ND	0.50									
Bromodichloromethane	ND	0.50									
Bromoform	ND	0.50									
Bromomethane	ND	0.50									
Carbon tetrachloride	ND	0.50									
Chlorobenzene	ND	0.50									
Chloroethane	ND	0.50									
Chloroform	ND	0.50									
Chloromethane	ND	0.50									
cis-1,2-Dichloroethene	ND	0.50									
cis-1,3-Dichloropropene	ND	0.50									
Dibromochloromethane	ND	0.50									
Dibromomethane	ND	0.50									
Dichlorodifluoromethane	ND	0.50									
Ethylbenzene	ND	0.50									
Hexachlorobutadiene	ND	0.50									
Isopropylbenzene	ND	0.50									
m,p-Xylene	ND	1.0									
Methylene chloride	ND	1.0									
n-Butylbenzene	ND	0.50									
n-Propylbenzene	ND	0.50									
Naphthalene	ND	0.50									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: The Source Group Inc.
Work Order: 106235
Project: AB&I Foundry, 01-ABI.001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **Q090706MB4** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **110533**
Client ID: **PBW** Batch ID: **Q09VW129** TestNo: **EPA 8260B** Analysis Date: **7/6/2009** SeqNo: **1739318**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
o-Xylene	ND	0.50									
sec-Butylbenzene	ND	0.50									
Styrene	ND	0.50									
tert-Butylbenzene	ND	0.50									
Tetrachloroethene	ND	0.50									
Toluene	ND	0.50									
trans-1,2-Dichloroethene	ND	0.50									
Trichloroethene	ND	0.50									
Trichlorofluoromethane	ND	0.50									
Vinyl chloride	ND	0.50									
Surr: 1,2-Dichloroethane-d4	21.390		25.00		85.6	70	130				
Surr: 4-Bromofluorobenzene	21.390		25.00		85.6	70	130				
Surr: Dibromofluoromethane	20.000		25.00		80.0	70	130				
Surr: Toluene-d8	22.050		25.00		88.2	70	130				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: The Source Group Inc.
Work Order: 106235
Project: AB&I Foundry, 01-ABI.001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **Q090707LCS1** SampType: **LCS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **110539**
Client ID: **LCSW** Batch ID: **Q09VW130** TestNo: **EPA 8260B** Analysis Date: **7/7/2009** SeqNo: **1739453**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	20.460	0.50	20.00	0	102	70	130				
Benzene	41.640	0.50	40.00	0	104	70	130				
Chlorobenzene	21.140	0.50	20.00	0	106	70	130				
MTBE	19.820	0.50	20.00	0	99.1	70	130				
Toluene	40.860	0.50	40.00	0	102	70	130				
Trichloroethene	19.820	0.50	20.00	0	99.1	70	130				
Surr: 1,2-Dichloroethane-d4	23.890		25.00		95.6	70	130				
Surr: 4-Bromofluorobenzene	27.790		25.00		111	70	130				
Surr: Dibromofluoromethane	26.360		25.00		105	70	130				
Surr: Toluene-d8	29.220		25.00		117	70	130				

Sample ID: **Q090707MB2MS** SampType: **MS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **110539**
Client ID: **ZZZZZZ** Batch ID: **Q09VW130** TestNo: **EPA 8260B** Analysis Date: **7/7/2009** SeqNo: **1739454**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	19.460	0.50	20.00	0	97.3	70	130				
Benzene	40.330	0.50	40.00	0	101	70	130				
Chlorobenzene	20.760	0.50	20.00	0	104	70	130				
Toluene	39.290	0.50	40.00	0	98.2	70	130				
Trichloroethene	19.930	0.50	20.00	0	99.7	70	130				
Surr: 1,2-Dichloroethane-d4	23.250		25.00		93.0	70	130				
Surr: 4-Bromofluorobenzene	26.840		25.00		107	70	130				
Surr: Dibromofluoromethane	26.360		25.00		105	70	130				
Surr: Toluene-d8	27.810		25.00		111	70	130				

Sample ID: **Q090707MB2MSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **110539**
Client ID: **ZZZZZZ** Batch ID: **Q09VW130** TestNo: **EPA 8260B** Analysis Date: **7/7/2009** SeqNo: **1739455**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	18.430	0.50	20.00	0	92.2	70	130	19.46	5.44	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: The Source Group Inc.
Work Order: 106235
Project: AB&I Foundry, 01-ABI.001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **Q090707MB2MSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **110539**
Client ID: **ZZZZZZ** Batch ID: **Q09VW130** TestNo: **EPA 8260B** Analysis Date: **7/7/2009** SeqNo: **1739455**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	41.160	0.50	40.00	0	103	70	130	40.33	2.04	20	
Chlorobenzene	21.200	0.50	20.00	0	106	70	130	20.76	2.10	20	
Toluene	40.750	0.50	40.00	0	102	70	130	39.29	3.65	20	
Trichloroethene	19.010	0.50	20.00	0	95.1	70	130	19.93	4.73	20	
Surr: 1,2-Dichloroethane-d4	22.720		25.00		90.9	70	130		0	20	
Surr: 4-Bromofluorobenzene	26.580		25.00		106	70	130		0	20	
Surr: Dibromofluoromethane	25.230		25.00		101	70	130		0	20	
Surr: Toluene-d8	28.880		25.00		116	70	130		0	20	

Sample ID: **Q090707MB2** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **110539**
Client ID: **PBW** Batch ID: **Q09VW130** TestNo: **EPA 8260B** Analysis Date: **7/7/2009** SeqNo: **1739456**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	0.50									
1,1,1-Trichloroethane	ND	0.50									
1,1,2,2-Tetrachloroethane	ND	0.50									
1,1,2-Trichloroethane	ND	0.50									
1,1-Dichloroethane	ND	0.50									
1,1-Dichloroethene	ND	0.50									
1,1-Dichloropropene	ND	0.50									
1,2,3-Trichlorobenzene	ND	0.50									
1,2,3-Trichloropropane	ND	0.50									
1,2,4-Trichlorobenzene	ND	0.50									
1,2,4-Trimethylbenzene	ND	0.50									
1,2-Dibromo-3-chloropropane	ND	0.50									
1,2-Dibromoethane	ND	0.50									
1,2-Dichlorobenzene	ND	0.50									
1,2-Dichloroethane	ND	0.50									
1,2-Dichloropropane	ND	0.50									
1,3,5-Trimethylbenzene	ND	0.50									

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: The Source Group Inc.
Work Order: 106235
Project: AB&I Foundry, 01-ABI.001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **Q090707MB2** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **110539**
Client ID: **PBW** Batch ID: **Q09VW130** TestNo: **EPA 8260B** Analysis Date: **7/7/2009** SeqNo: **1739456**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Dichlorobenzene	ND	0.50									
1,3-Dichloropropane	ND	0.50									
1,4-Dichlorobenzene	ND	0.50									
2,2-Dichloropropane	ND	0.50									
2-Chlorotoluene	ND	0.50									
4-Chlorotoluene	ND	0.50									
4-Isopropyltoluene	ND	0.50									
Benzene	ND	0.50									
Bromobenzene	ND	0.50									
Bromodichloromethane	ND	0.50									
Bromoform	ND	0.50									
Bromomethane	ND	0.50									
Carbon tetrachloride	ND	0.50									
Chlorobenzene	ND	0.50									
Chloroethane	ND	0.50									
Chloroform	ND	0.50									
Chloromethane	ND	0.50									
cis-1,2-Dichloroethene	ND	0.50									
cis-1,3-Dichloropropene	ND	0.50									
Dibromochloromethane	ND	0.50									
Dibromomethane	ND	0.50									
Dichlorodifluoromethane	ND	0.50									
Ethylbenzene	ND	0.50									
Hexachlorobutadiene	ND	0.50									
Isopropylbenzene	ND	0.50									
m,p-Xylene	ND	1.0									
Methylene chloride	ND	1.0									
n-Butylbenzene	ND	0.50									
n-Propylbenzene	ND	0.50									
Naphthalene	ND	0.50									

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits

Calculations are based on raw values

- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: The Source Group Inc.
Work Order: 106235
Project: AB&I Foundry, 01-ABI.001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **Q090707MB2** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **110539**
Client ID: **PBW** Batch ID: **Q09VW130** TestNo: **EPA 8260B** Analysis Date: **7/7/2009** SeqNo: **1739456**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
o-Xylene	ND	0.50									
sec-Butylbenzene	ND	0.50									
Styrene	ND	0.50									
tert-Butylbenzene	ND	0.50									
Tetrachloroethene	ND	0.50									
Toluene	ND	0.50									
trans-1,2-Dichloroethene	ND	0.50									
Trichloroethene	ND	0.50									
Trichlorofluoromethane	ND	0.50									
Vinyl chloride	ND	0.50									
Surr: 1,2-Dichloroethane-d4	24.940		25.00		99.8	70	130				
Surr: 4-Bromofluorobenzene	27.150		25.00		109	70	130				
Surr: Dibromofluoromethane	25.980		25.00		104	70	130				
Surr: Toluene-d8	29.270		25.00		117	70	130				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits

Calculations are based on raw values

- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: The Source Group Inc.
Work Order: 106235
Project: AB&I Foundry, 01-ABI.001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WU_LL

Sample ID: **Q090706LCS2** SampType: **LCS** TestCode: **8260_WU_LL** Units: **µg/L** Prep Date: RunNo: **110533**
Client ID: **LCSW** Batch ID: **Q09VW129** TestNo: **EPA 8260B** Analysis Date: **7/6/2009** SeqNo: **1739327**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	18.400	0.50	20.00	0	92.0	70	130				
Benzene	37.150	0.50	40.00	0	92.9	70	130				
Chlorobenzene	19.080	0.50	20.00	0	95.4	70	130				
MTBE	17.760	0.50	20.00	0	88.8	70	130				
Toluene	36.690	0.50	40.00	0	91.7	70	130				
Trichloroethene	17.680	0.50	20.00	0	88.4	70	130				
Surr: 1,2-Dichloroethane-d4	20.980		25.00		83.9	70	130				
Surr: 4-Bromofluorobenzene	21.490		25.00		86.0	70	130				
Surr: Dibromofluoromethane	20.850		25.00		83.4	70	130				
Surr: Toluene-d8	22.040		25.00		88.2	70	130				

Sample ID: **Q090706MB4MS** SampType: **MS** TestCode: **8260_WU_LL** Units: **µg/L** Prep Date: RunNo: **110533**
Client ID: **ZZZZZZ** Batch ID: **Q09VW129** TestNo: **EPA 8260B** Analysis Date: **7/6/2009** SeqNo: **1739328**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	15.590	0.50	20.00	0	78.0	70	130				
Benzene	38.590	0.50	40.00	0	96.5	70	130				
Chlorobenzene	19.930	0.50	20.00	0	99.7	70	130				
Toluene	37.930	0.50	40.00	0	94.8	70	130				
Trichloroethene	17.240	0.50	20.00	0	86.2	70	130				
Surr: 1,2-Dichloroethane-d4	20.870		25.00		83.5	70	130				
Surr: 4-Bromofluorobenzene	22.150		25.00		88.6	70	130				
Surr: Dibromofluoromethane	21.580		25.00		86.3	70	130				
Surr: Toluene-d8	22.850		25.00		91.4	70	130				

Sample ID: **Q090706MB4MSD** SampType: **MSD** TestCode: **8260_WU_LL** Units: **µg/L** Prep Date: RunNo: **110533**
Client ID: **ZZZZZZ** Batch ID: **Q09VW129** TestNo: **EPA 8260B** Analysis Date: **7/6/2009** SeqNo: **1739329**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	14.120	0.50	20.00	0	70.6	70	130	15.59	9.90	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: The Source Group Inc.
Work Order: 106235
Project: AB&I Foundry, 01-ABI.001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WU_LL

Sample ID: **Q090706MB4MSD** SampType: **MSD** TestCode: **8260_WU_LL** Units: **µg/L** Prep Date: RunNo: **110533**
Client ID: **ZZZZZZ** Batch ID: **Q09VW129** TestNo: **EPA 8260B** Analysis Date: **7/6/2009** SeqNo: **1739329**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	37.040	0.50	40.00	0	92.6	70	130	38.59	4.10	20	
Chlorobenzene	19.470	0.50	20.00	0	97.4	70	130	19.93	2.34	20	
Toluene	36.880	0.50	40.00	0	92.2	70	130	37.93	2.81	20	
Trichloroethene	17.330	0.50	20.00	0	86.7	70	130	17.24	0.521	20	
Surr: 1,2-Dichloroethane-d4	19.940		25.00		79.8	70	130		0	20	
Surr: 4-Bromofluorobenzene	21.150		25.00		84.6	70	130		0	20	
Surr: Dibromofluoromethane	20.390		25.00		81.6	70	130		0	20	
Surr: Toluene-d8	21.890		25.00		87.6	70	130		0	20	

Sample ID: **Q090706MB4** SampType: **MBLK** TestCode: **8260_WU_LL** Units: **µg/L** Prep Date: RunNo: **110533**
Client ID: **PBW** Batch ID: **Q09VW129** TestNo: **EPA 8260B** Analysis Date: **7/6/2009** SeqNo: **1739330**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	0.50									
1,1,1-Trichloroethane	ND	0.50									
1,1,2,2-Tetrachloroethane	ND	0.50									
1,1,2-Trichloroethane	ND	0.50									
1,1-Dichloroethane	ND	0.50									
1,1-Dichloroethene	ND	0.50									
1,1-Dichloropropene	ND	0.50									
1,2,3-Trichlorobenzene	ND	0.50									
1,2,3-Trichloropropane	ND	0.50									
1,2,4-Trichlorobenzene	ND	0.50									
1,2,4-Trimethylbenzene	ND	0.50									
1,2-Dibromo-3-chloropropane	ND	0.50									
1,2-Dibromoethane	ND	0.50									
1,2-Dichlorobenzene	ND	0.50									
1,2-Dichloroethane	ND	0.50									
1,2-Dichloropropane	ND	0.50									
1,3,5-Trimethylbenzene	ND	0.50									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: The Source Group Inc.
Work Order: 106235
Project: AB&I Foundry, 01-ABI.001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WU_LL

Sample ID: **Q090706MB4** SampType: **MBLK** TestCode: **8260_WU_LL** Units: **µg/L** Prep Date: RunNo: **110533**
Client ID: **PBW** Batch ID: **Q09VW129** TestNo: **EPA 8260B** Analysis Date: **7/6/2009** SeqNo: **1739330**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Dichlorobenzene	ND	0.50									
1,3-Dichloropropane	ND	0.50									
1,4-Dichlorobenzene	ND	0.50									
2,2-Dichloropropane	ND	0.50									
2-Chlorotoluene	ND	0.50									
4-Chlorotoluene	ND	0.50									
4-Isopropyltoluene	ND	0.50									
Benzene	ND	0.50									
Bromobenzene	ND	0.50									
Bromodichloromethane	ND	0.50									
Bromoform	ND	0.50									
Bromomethane	ND	0.50									
Carbon tetrachloride	ND	0.50									
Chlorobenzene	ND	0.50									
Chloroethane	ND	0.50									
Chloroform	ND	0.50									
Chloromethane	ND	0.50									
cis-1,2-Dichloroethene	ND	0.50									
cis-1,3-Dichloropropene	ND	0.50									
Dibromochloromethane	ND	0.50									
Dibromomethane	ND	0.50									
Dichlorodifluoromethane	ND	0.50									
Ethylbenzene	ND	0.50									
Hexachlorobutadiene	ND	0.50									
Isopropylbenzene	ND	0.50									
m,p-Xylene	ND	1.0									
Methylene chloride	ND	1.0									
n-Butylbenzene	ND	0.50									
n-Propylbenzene	ND	0.50									
Naphthalene	ND	0.50									

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: The Source Group Inc.
Work Order: 106235
Project: AB&I Foundry, 01-ABI.001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WU_LL

Sample ID: **Q090706MB4** SampType: **MBLK** TestCode: **8260_WU_LL** Units: **µg/L** Prep Date: RunNo: **110533**
Client ID: **PBW** Batch ID: **Q09VW129** TestNo: **EPA 8260B** Analysis Date: **7/6/2009** SeqNo: **1739330**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
o-Xylene	ND	0.50									
sec-Butylbenzene	ND	0.50									
Styrene	ND	0.50									
tert-Butylbenzene	ND	0.50									
Tetrachloroethene	ND	0.50									
Toluene	ND	0.50									
trans-1,2-Dichloroethene	ND	0.50									
Trichloroethene	ND	0.50									
Trichlorofluoromethane	ND	0.50									
Vinyl chloride	ND	0.50									
Surr: 1,2-Dichloroethane-d4	21.390		25.00		85.6	70	130				
Surr: 4-Bromofluorobenzene	21.390		25.00		85.6	70	130				
Surr: Dibromofluoromethane	20.000		25.00		80.0	70	130				
Surr: Toluene-d8	22.050		25.00		88.2	70	130				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

AirTECHNOLOGY
Laboratories, Inc.

July 9, 2009

FL Cert #E87847/LA Cert #04140
EPA Methods TO3, TO14A, TO15, 25C/3C
RSK-175
TX Cert #T104704450-09-TX
EPA Methods TO14A,TO15

AZ Dept of Health Services #AZ0737
EPA Methods TO3, TO14A, TO15, 15, 16, 25C

Advanced Technology Labs, Inc.
ATTN: Rachelle Arada
3275 Walnut Ave.
Signal Hill, CA 90755

LABORATORY TEST RESULTS

Project Reference: 106235
Lab Number: A9070203-01/02

Enclosed are results for sample(s) received 7/02/09 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

- Sample analyses were performed within method performance criteria, and meet all requirements of the NELAC Standards.
- All results are reported without qualifications unless otherwise noted.

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com

Enclosures

Note: The cover letter is an integral part of this analytical report.

Client: Advanced Technology Laboratories
Attn: Rachelle Arada

Client's Project: 106235
Date Received: 7/2/09
Matrix: Water
Units: ug/L

Dissolved Gases by EPA Procedure RSKSOP-175

Lab No.:		A9070203-01		A9070203-02							
Client Sample I.D.:		106235-002C / MW-3		106235-003C / MW-8							
Date Sampled:		7/1/09		7/1/09							
Date Analyzed:		7/8/09		7/8/09							
Analyst Initials:		ZK		ZK							
Data File:		08jul016		08jul017							
QC Batch:		090708GC8A1		090708GC8A1							
Dilution Factor:		1.0		1.0							
ANALYTE	PQL	RL	Results	RL	Results						
Methane	1.0	1.0	450	1.0	1,400						
Ethane	2.0	2.0	16	2.0	13						
Ethylene	3.0	3.0	ND	3.0	5.3						

PQL = Practical Quantitation Limit
ND = Not Detected (Below RL)
RL = PQL X Dilution Factor

Reviewed/Approved By: _____ Date: 7/9/09
Mark J. Johnson
Operations Manager

The cover letter is an integral part of this analytical report

QC Batch No.: 090708GC8A1
Matrix: Water
Units: ug/L

QC for Dissolved Gases by EPA Procedure RSKSOP-175

Lab No.:		Method Blank		LCS		LCSD			
Date Analyzed:		07/08/09		07/08/09		07/08/09			
Analyst Initials:		ZK		ZK		ZK			
Datafile:		08jul013		08jul011		08jul012			
Dilution Factor:		1.0		1.0		1.0			
ANALYTE	PQL	RL	Results	% Rec.	Criteria	% Rec.	Criteria	%RPD	Criteria
Methane	1.0	1.0	ND	88	70-130%	86	70-130%	2.6	<30
Ethane	2.0	2.0	ND	89	70-130%	84	70-130%	5.7	<30
Ethylene	3.0	3.0	ND	83	70-130%	79	70-130%	5.4	<30

PQL = Practical Quantitation Limit
ND = Not Detected (Below RL).
RL = PQL X Dilution Factor

Reviewed/Approved By: _____ Date: 7/9/09
Mark J. Johnson
Operations Manager

The cover letter is an integral part of this analytical report.

A9070203 -01/02

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755-5225
www.atlglobal.com
TEL: (562) 989-4045 *FAX: (562) 989-4040*

CHAIN-OF-CUSTODY RECORD

QC Level: RWQCB

Subcontractor:

Air Technology Laboratories
18501 E. Gale Ave, Suite 130
City of Industry, CA 91748

TEL: (626) 964-4032
FAX: (626) 964-5832
Acct #:

Field Sampler: NATHAN COLTON

02-Jul-09

					Requested Tests		
	Sample ID	Matrix	Date Collected	Bottle Type	RSK175		
01	106235-002C / MW-3	Groundwater	7/1/2009 11:00:00 AM	VOA	1		
02	106235-003C / MW-8	Groundwater	7/1/2009 11:55:00 AM	VOA	1		

4.5 °C r

General Comments: Please email sample receipt acknowledgement to the PM.

Please use PO#: SC04682 Please fax results by: Normal TAT

Analyze for Methane, ethane and ethene by RSK-175.

Please send report to Rachelle Arada. Thank you.

		Date/Time			Date/Time
Relinquished by:		07/02/09	**Received by:**		7/2/09 1050
Relinquished by:			**Received by:**		

CHAIN OF CUSTODY RECORD

Pg 1 of 1

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755
(562) 989-4045 • Fax (562) 989-4040

FOR LABORATORY USE ONLY:

P.O.#: _____
Logged By: _____ Date: 07/02/09

Method of Transport: Client ☐ ATL ☐ CA OverN ☐ FEDEX ☐ Other: Courier

Sample Condition Upon Receipt: Temp: 4.1
1. CHILLED 2-4 Y ☒ N ☐ 4. SEALED Y ☐ N ☐
2. HEADSPACE (VOA) Y ☐ N ☐ 5. # OF SPLS MATCH COC Y ☐ N ☐
3. CONTAINER INTACT Y ☐ N ☐ 6. PRESERVED Y ☐ N ☐

Client: The Source Group, Inc.	Address: 3451-C Vineyard Rd.		TEL: (925) 944-2856
Attn: Kent Reynolds	City Pleasant Hill	State CA	Zip Code 94523	FAX: (925) 944-2859

Project Name: ABI Foundry Project #: 01-ABI.001 Sampler: (Printed Name) Nathan Colton (Signature)

Relinquished by: (Signature and Printed Name) Nathan Colton	Date: 7/1/09	Time: 1250	Received by: (Signature and Printed Name) Christine	Date: 07/02/09	Time: 8:45
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter:
Nathan Colton (Print Name) 7/1/09 (Date)
(Signature)

Send Report To:
Attn: Kent Reynolds
Co: The Source Group, Inc.
Address 3451-C Vineyard Rd.
City Pleasant Hill State CA Zip 94523

Bill To:
Attn: _____
Co: Set ME
Address _____
City _____ State _____ Zip _____

Special Instructions/Comments:
- 0.5 mg/L reporting limit
- silica gel on extractables
- include Geotracker EDF
- ID: T0600100065

Sample/Records - Archival & Disposal
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.

Storage Fees (applies when storage is requested):
- Sample : $2.00 / sample / mo (after 45 days)
- Records : $1.00 / ATL workorder / mo (after 1 year)

ITEM	LAB USE ONLY: Batch #: / Lab No.	Sample Description: Sample I.D. / Location	Date	Time	8081A (Pesticides)	8082 (PCB)	8260B (Volatiles)	8270C (BNA)	6010B (Total Metal)	8015B (GRO) / 8020 (BTEX)	8015B (DRO)	8021 (BTEX)	TITLE 22 / CAM 17 (6010 / 7000)	RSK-175 methane, ethane, ethene	TOC	Silica Gel C/U	SOIL	WATER	GROUND WATER	WASTEWATER	SPECIFY APPROPRIATE MATRIX	TAT	Container(s) #	Container(s) Type	PRESERVATION	REMARKS
	10235-001	MW-9	7/1/09	1010		X			X	X					X				X				E	7		H	
	002	MW-3	↓	1100		X							X	X					X				E	9		-	unpreserved due to client
	003	MW-8	↓	1155		X							X	X					X				E	9		H	
	004	Trip Blank	—			X												X					E	3		H	

- TAT starts 8 a.m. following day if samples received after 3 p.m.

TAT: A= Overnight ≤ 24 hr B= Emergency Next workday C= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Preservatives: H=Hcl N=HNO_3 S=H_2SO_4 C=4°C Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$

DISTRIBUTION: **White** with report, **Yellow** to folder, **Pink** to submitter.

AUGUST 2009 ANALYTICAL DATA

August 17, 2009

Kent Reynolds
The Source Group Inc.
3451 Vincent Dr., Suite C
Pleasant Hill, CA 94523

TEL: (925) 944-2856
FAX: (925) 944-2859

ELAP No.: 1838
NELAP No.: 02107CA
NEVADA.: CA-401
CSDLAC No.: 10196

Workorder No.: 106779

RE: AB&I Foundry, 01-ABI.001

Attention: Kent Reynolds

Enclosed are the results for sample(s) received on August 08, 2009 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez
Laboratory Director

CLIENT: The Source Group Inc.
Project: AB&I Foundry, 01-ABI.001
Lab Order: 106779

CASE NARRATIVE

The samples for RSK-175 analysis were subcontracted to Air Technology Laboratory.

Analytical Comments for EPA 8015B(M) (DRO)

Silica Gel Cleanup was performed on sample prior to the analysis, per client request.

Analytical Comments for EPA 8260B

Results were J-Flag. "J" is used to flag those results that are between the PQL (Practical Quantitation Limit) and the calculated MDL (Method Detection Limit). Results that are "J" Flagged are estimated values since it becomes difficult to accurately quantitate the analyte near the MDL.

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *17-Aug-09*

CLIENT:	The Source Group Inc.	**Client Sample ID:**	MW-9
Lab Order:	106779	**Collection Date:**	8/7/2009 9:55:00 AM
Project:	AB&I Foundry, 01-ABI.001	**Matrix:**	GROUNDWATER
Lab ID:	106779-001A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS11_090811A** QC Batch: **A09VW142** PrepDate: Analyst: **SLL**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.45	0.50		µg/L	1	8/11/2009 01:04 PM
1,1,1-Trichloroethane	ND	0.27	0.50		µg/L	1	8/11/2009 01:04 PM
1,1,2,2-Tetrachloroethane	ND	0.35	0.50		µg/L	1	8/11/2009 01:04 PM
1,1,2-Trichloroethane	ND	0.43	0.50		µg/L	1	8/11/2009 01:04 PM
1,1-Dichloroethane	ND	0.17	0.50		µg/L	1	8/11/2009 01:04 PM
1,1-Dichloroethene	ND	0.19	0.50		µg/L	1	8/11/2009 01:04 PM
1,1-Dichloropropene	ND	0.30	0.50		µg/L	1	8/11/2009 01:04 PM
1,2,3-Trichlorobenzene	ND	0.48	0.50		µg/L	1	8/11/2009 01:04 PM
1,2,3-Trichloropropane	ND	0.24	0.50		µg/L	1	8/11/2009 01:04 PM
1,2,4-Trichlorobenzene	ND	0.43	0.50		µg/L	1	8/11/2009 01:04 PM
1,2,4-Trimethylbenzene	ND	0.44	0.50		µg/L	1	8/11/2009 01:04 PM
1,2-Dibromo-3-chloropropane	ND	0.35	0.50		µg/L	1	8/11/2009 01:04 PM
1,2-Dibromoethane	ND	0.37	0.50		µg/L	1	8/11/2009 01:04 PM
1,2-Dichlorobenzene	ND	0.27	0.50		µg/L	1	8/11/2009 01:04 PM
1,2-Dichloroethane	ND	0.16	0.50		µg/L	1	8/11/2009 01:04 PM
1,2-Dichloropropane	ND	0.20	0.50		µg/L	1	8/11/2009 01:04 PM
1,3,5-Trimethylbenzene	ND	0.36	0.50		µg/L	1	8/11/2009 01:04 PM
1,3-Dichlorobenzene	ND	0.28	0.50		µg/L	1	8/11/2009 01:04 PM
1,3-Dichloropropane	ND	0.32	0.50		µg/L	1	8/11/2009 01:04 PM
1,4-Dichlorobenzene	ND	0.24	0.50		µg/L	1	8/11/2009 01:04 PM
2,2-Dichloropropane	ND	0.32	0.50		µg/L	1	8/11/2009 01:04 PM
2-Chlorotoluene	ND	0.31	0.50		µg/L	1	8/11/2009 01:04 PM
4-Chlorotoluene	ND	0.23	0.50		µg/L	1	8/11/2009 01:04 PM
4-Isopropyltoluene	4.1	0.36	0.50		µg/L	1	8/11/2009 01:04 PM
Benzene	9.1	0.17	0.50		µg/L	1	8/11/2009 01:04 PM
Bromobenzene	ND	0.21	0.50		µg/L	1	8/11/2009 01:04 PM
Bromodichloromethane	ND	0.39	0.50		µg/L	1	8/11/2009 01:04 PM
Bromoform	ND	0.30	0.50		µg/L	1	8/11/2009 01:04 PM
Bromomethane	ND	0.32	0.50		µg/L	1	8/11/2009 01:04 PM
Carbon tetrachloride	ND	0.38	0.50		µg/L	1	8/11/2009 01:04 PM
Chlorobenzene	ND	0.28	0.50		µg/L	1	8/11/2009 01:04 PM
Chloroethane	ND	0.35	0.50		µg/L	1	8/11/2009 01:04 PM
Chloroform	ND	0.23	0.50		µg/L	1	8/11/2009 01:04 PM
Chloromethane	ND	0.32	0.50		µg/L	1	8/11/2009 01:04 PM
cis-1,2-Dichloroethene	ND	0.15	0.50		µg/L	1	8/11/2009 01:04 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified
E	Value above quantitation range
J	Analyte detected below quantitation limits
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out

CLIENT:	The Source Group Inc.	**Client Sample ID:**	MW-9
Lab Order:	106779	**Collection Date:**	8/7/2009 9:55:00 AM
Project:	AB&I Foundry, 01-ABI.001	**Matrix:**	GROUNDWATER
Lab ID:	106779-001A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS11_090811A** QC Batch: **A09VW142** PrepDate: Analyst: **SLL**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.29	0.50		µg/L	1	8/11/2009 01:04 PM
Dibromochloromethane	ND	0.40	0.50		µg/L	1	8/11/2009 01:04 PM
Dibromomethane	ND	0.19	0.50		µg/L	1	8/11/2009 01:04 PM
Dichlorodifluoromethane	ND	0.33	0.50		µg/L	1	8/11/2009 01:04 PM
Ethylbenzene	2.2	0.22	0.50		µg/L	1	8/11/2009 01:04 PM
Hexachlorobutadiene	ND	0.28	0.50		µg/L	1	8/11/2009 01:04 PM
Isopropylbenzene	8.8	0.30	0.50		µg/L	1	8/11/2009 01:04 PM
m,p-Xylene	1.5	0.49	1.0		µg/L	1	8/11/2009 01:04 PM
Methylene chloride	ND	1.0	1.0		µg/L	1	8/11/2009 01:04 PM
n-Butylbenzene	1.4	0.30	0.50		µg/L	1	8/11/2009 01:04 PM
n-Propylbenzene	9.9	0.36	0.50		µg/L	1	8/11/2009 01:04 PM
Naphthalene	0.82	0.35	0.50		µg/L	1	8/11/2009 01:04 PM
o-Xylene	ND	0.27	0.50		µg/L	1	8/11/2009 01:04 PM
sec-Butylbenzene	1.9	0.33	0.50		µg/L	1	8/11/2009 01:04 PM
Styrene	ND	0.38	0.50		µg/L	1	8/11/2009 01:04 PM
tert-Butylbenzene	ND	0.35	0.50		µg/L	1	8/11/2009 01:04 PM
Tetrachloroethene	ND	0.19	0.50		µg/L	1	8/11/2009 01:04 PM
Toluene	0.51	0.22	0.50		µg/L	1	8/11/2009 01:04 PM
trans-1,2-Dichloroethene	ND	0.22	0.50		µg/L	1	8/11/2009 01:04 PM
Trichloroethene	ND	0.15	0.50		µg/L	1	8/11/2009 01:04 PM
Trichlorofluoromethane	ND	0.26	0.50		µg/L	1	8/11/2009 01:04 PM
Vinyl chloride	ND	0.34	0.50		µg/L	1	8/11/2009 01:04 PM
Surr: 1,2-Dichloroethane-d4	98.3	0	70-130		%REC	1	8/11/2009 01:04 PM
Surr: 4-Bromofluorobenzene	93.2	0	70-130		%REC	1	8/11/2009 01:04 PM
Surr: Dibromofluoromethane	99.0	0	70-130		%REC	1	8/11/2009 01:04 PM
Surr: Toluene-d8	105	0	70-130		%REC	1	8/11/2009 01:04 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *17-Aug-09*

CLIENT:	The Source Group Inc.	**Client Sample ID:**	MW-3
Lab Order:	106779	**Collection Date:**	8/7/2009 10:55:00 AM
Project:	AB&I Foundry, 01-ABI.001	**Matrix:**	GROUNDWATER
Lab ID:	106779-002A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS11_090811A** QC Batch: **A09VW142** PrepDate: Analyst: **SLL**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.45	0.50		µg/L	1	8/11/2009 02:31 PM
1,1,1-Trichloroethane	ND	0.27	0.50		µg/L	1	8/11/2009 02:31 PM
1,1,2,2-Tetrachloroethane	ND	0.35	0.50		µg/L	1	8/11/2009 02:31 PM
1,1,2-Trichloroethane	ND	0.43	0.50		µg/L	1	8/11/2009 02:31 PM
1,1-Dichloroethane	110	8.3	25		µg/L	50	8/11/2009 12:25 PM
1,1-Dichloroethene	94	0.19	0.50		µg/L	1	8/11/2009 02:31 PM
1,1-Dichloropropene	ND	0.30	0.50		µg/L	1	8/11/2009 02:31 PM
1,2,3-Trichlorobenzene	ND	0.48	0.50		µg/L	1	8/11/2009 02:31 PM
1,2,3-Trichloropropane	ND	0.24	0.50		µg/L	1	8/11/2009 02:31 PM
1,2,4-Trichlorobenzene	ND	0.43	0.50		µg/L	1	8/11/2009 02:31 PM
1,2,4-Trimethylbenzene	ND	0.44	0.50		µg/L	1	8/11/2009 02:31 PM
1,2-Dibromo-3-chloropropane	ND	0.35	0.50		µg/L	1	8/11/2009 02:31 PM
1,2-Dibromoethane	ND	0.37	0.50		µg/L	1	8/11/2009 02:31 PM
1,2-Dichlorobenzene	ND	0.27	0.50		µg/L	1	8/11/2009 02:31 PM
1,2-Dichloroethane	ND	0.16	0.50		µg/L	1	8/11/2009 02:31 PM
1,2-Dichloropropane	ND	0.20	0.50		µg/L	1	8/11/2009 02:31 PM
1,3,5-Trimethylbenzene	ND	0.36	0.50		µg/L	1	8/11/2009 02:31 PM
1,3-Dichlorobenzene	ND	0.28	0.50		µg/L	1	8/11/2009 02:31 PM
1,3-Dichloropropane	ND	0.32	0.50		µg/L	1	8/11/2009 02:31 PM
1,4-Dichlorobenzene	ND	0.24	0.50		µg/L	1	8/11/2009 02:31 PM
2,2-Dichloropropane	ND	0.32	0.50		µg/L	1	8/11/2009 02:31 PM
2-Chlorotoluene	ND	0.31	0.50		µg/L	1	8/11/2009 02:31 PM
4-Chlorotoluene	ND	0.23	0.50		µg/L	1	8/11/2009 02:31 PM
4-Isopropyltoluene	ND	0.36	0.50		µg/L	1	8/11/2009 02:31 PM
Benzene	0.67	0.17	0.50		µg/L	1	8/11/2009 02:31 PM
Bromobenzene	ND	0.21	0.50		µg/L	1	8/11/2009 02:31 PM
Bromodichloromethane	ND	0.39	0.50		µg/L	1	8/11/2009 02:31 PM
Bromoform	ND	0.30	0.50		µg/L	1	8/11/2009 02:31 PM
Bromomethane	ND	0.32	0.50		µg/L	1	8/11/2009 02:31 PM
Carbon tetrachloride	ND	0.38	0.50		µg/L	1	8/11/2009 02:31 PM
Chlorobenzene	ND	0.28	0.50		µg/L	1	8/11/2009 02:31 PM
Chloroethane	61	0.35	0.50		µg/L	1	8/11/2009 02:31 PM
Chloroform	ND	0.23	0.50		µg/L	1	8/11/2009 02:31 PM
Chloromethane	ND	0.32	0.50		µg/L	1	8/11/2009 02:31 PM
cis-1,2-Dichloroethene	1.2	0.15	0.50		µg/L	1	8/11/2009 02:31 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified
E	Value above quantitation range
J	Analyte detected below quantitation limits
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *17-Aug-09*

CLIENT:	The Source Group Inc.	**Client Sample ID:**	MW-3
Lab Order:	106779	**Collection Date:**	8/7/2009 10:55:00 AM
Project:	AB&I Foundry, 01-ABI.001	**Matrix:**	GROUNDWATER
Lab ID:	106779-002A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS11_090811A** QC Batch: **A09VW142** PrepDate: Analyst: **SLL**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.29	0.50		µg/L	1	8/11/2009 02:31 PM
Dibromochloromethane	ND	0.40	0.50		µg/L	1	8/11/2009 02:31 PM
Dibromomethane	ND	0.19	0.50		µg/L	1	8/11/2009 02:31 PM
Dichlorodifluoromethane	ND	0.33	0.50		µg/L	1	8/11/2009 02:31 PM
Ethylbenzene	ND	0.22	0.50		µg/L	1	8/11/2009 02:31 PM
Hexachlorobutadiene	ND	0.28	0.50		µg/L	1	8/11/2009 02:31 PM
Isopropylbenzene	ND	0.30	0.50		µg/L	1	8/11/2009 02:31 PM
m,p-Xylene	ND	0.49	1.0		µg/L	1	8/11/2009 02:31 PM
Methylene chloride	ND	1.0	1.0		µg/L	1	8/11/2009 02:31 PM
n-Butylbenzene	ND	0.30	0.50		µg/L	1	8/11/2009 02:31 PM
n-Propylbenzene	ND	0.36	0.50		µg/L	1	8/11/2009 02:31 PM
Naphthalene	ND	0.35	0.50		µg/L	1	8/11/2009 02:31 PM
o-Xylene	ND	0.27	0.50		µg/L	1	8/11/2009 02:31 PM
sec-Butylbenzene	ND	0.33	0.50		µg/L	1	8/11/2009 02:31 PM
Styrene	ND	0.38	0.50		µg/L	1	8/11/2009 02:31 PM
tert-Butylbenzene	ND	0.35	0.50		µg/L	1	8/11/2009 02:31 PM
Tetrachloroethene	ND	0.19	0.50		µg/L	1	8/11/2009 02:31 PM
Toluene	7.1	0.22	0.50		µg/L	1	8/11/2009 02:31 PM
trans-1,2-Dichloroethene	ND	0.22	0.50		µg/L	1	8/11/2009 02:31 PM
Trichloroethene	0.24	0.15	0.50	J	µg/L	1	8/11/2009 02:31 PM
Trichlorofluoromethane	ND	0.26	0.50		µg/L	1	8/11/2009 02:31 PM
Vinyl chloride	29	0.34	0.50		µg/L	1	8/11/2009 02:31 PM
Surr: 1,2-Dichloroethane-d4	90.5	0	70-130		%REC	1	8/11/2009 02:31 PM
Surr: 1,2-Dichloroethane-d4	90.5	0	70-130		%REC	50	8/11/2009 12:25 PM
Surr: 4-Bromofluorobenzene	89.8	0	70-130		%REC	1	8/11/2009 02:31 PM
Surr: 4-Bromofluorobenzene	88.5	0	70-130		%REC	50	8/11/2009 12:25 PM
Surr: Dibromofluoromethane	97.5	0	70-130		%REC	1	8/11/2009 02:31 PM
Surr: Dibromofluoromethane	98.4	0	70-130		%REC	50	8/11/2009 12:25 PM
Surr: Toluene-d8	99.3	0	70-130		%REC	50	8/11/2009 12:25 PM
Surr: Toluene-d8	101	0	70-130		%REC	1	8/11/2009 02:31 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

CLIENT:	The Source Group Inc.	**Client Sample ID:**	MW-8
Lab Order:	106779	**Collection Date:**	8/7/2009 11:40:00 AM
Project:	AB&I Foundry, 01-ABI.001	**Matrix:**	GROUNDWATER
Lab ID:	106779-003A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS11_090811A** QC Batch: **A09VW142** PrepDate: Analyst: **SLL**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	4.5	5.0		µg/L	10	8/11/2009 02:51 PM
1,1,1-Trichloroethane	1700	13	25		µg/L	50	8/11/2009 12:44 PM
1,1,2,2-Tetrachloroethane	ND	3.5	5.0		µg/L	10	8/11/2009 02:51 PM
1,1,2-Trichloroethane	ND	4.3	5.0		µg/L	10	8/11/2009 02:51 PM
1,1-Dichloroethane	1600	8.3	25		µg/L	50	8/11/2009 12:44 PM
1,1-Dichloroethene	1300	9.5	25		µg/L	50	8/11/2009 12:44 PM
1,1-Dichloropropene	ND	3.0	5.0		µg/L	10	8/11/2009 02:51 PM
1,2,3-Trichlorobenzene	ND	4.8	5.0		µg/L	10	8/11/2009 02:51 PM
1,2,3-Trichloropropane	ND	2.4	5.0		µg/L	10	8/11/2009 02:51 PM
1,2,4-Trichlorobenzene	ND	4.3	5.0		µg/L	10	8/11/2009 02:51 PM
1,2,4-Trimethylbenzene	ND	4.4	5.0		µg/L	10	8/11/2009 02:51 PM
1,2-Dibromo-3-chloropropane	ND	3.5	5.0		µg/L	10	8/11/2009 02:51 PM
1,2-Dibromoethane	ND	3.7	5.0		µg/L	10	8/11/2009 02:51 PM
1,2-Dichlorobenzene	ND	2.7	5.0		µg/L	10	8/11/2009 02:51 PM
1,2-Dichloroethane	ND	1.6	5.0		µg/L	10	8/11/2009 02:51 PM
1,2-Dichloropropane	ND	2.0	5.0		µg/L	10	8/11/2009 02:51 PM
1,3,5-Trimethylbenzene	ND	3.6	5.0		µg/L	10	8/11/2009 02:51 PM
1,3-Dichlorobenzene	ND	2.8	5.0		µg/L	10	8/11/2009 02:51 PM
1,3-Dichloropropane	ND	3.2	5.0		µg/L	10	8/11/2009 02:51 PM
1,4-Dichlorobenzene	ND	2.4	5.0		µg/L	10	8/11/2009 02:51 PM
2,2-Dichloropropane	ND	3.2	5.0		µg/L	10	8/11/2009 02:51 PM
2-Chlorotoluene	ND	3.1	5.0		µg/L	10	8/11/2009 02:51 PM
4-Chlorotoluene	ND	2.3	5.0		µg/L	10	8/11/2009 02:51 PM
4-Isopropyltoluene	ND	3.6	5.0		µg/L	10	8/11/2009 02:51 PM
Benzene	3.2	1.7	5.0	J	µg/L	10	8/11/2009 02:51 PM
Bromobenzene	ND	2.1	5.0		µg/L	10	8/11/2009 02:51 PM
Bromodichloromethane	ND	3.9	5.0		µg/L	10	8/11/2009 02:51 PM
Bromoform	ND	3.0	5.0		µg/L	10	8/11/2009 02:51 PM
Bromomethane	ND	3.2	5.0		µg/L	10	8/11/2009 02:51 PM
Carbon tetrachloride	ND	3.8	5.0		µg/L	10	8/11/2009 02:51 PM
Chlorobenzene	ND	2.8	5.0		µg/L	10	8/11/2009 02:51 PM
Chloroethane	370	3.5	5.0		µg/L	10	8/11/2009 02:51 PM
Chloroform	ND	2.3	5.0		µg/L	10	8/11/2009 02:51 PM
Chloromethane	ND	3.2	5.0		µg/L	10	8/11/2009 02:51 PM
cis-1,2-Dichloroethene	ND	1.5	5.0		µg/L	10	8/11/2009 02:51 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified
E	Value above quantitation range
J	Analyte detected below quantitation limits
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out

CLIENT:	The Source Group Inc.	**Client Sample ID:**	MW-8
Lab Order:	106779	**Collection Date:**	8/7/2009 11:40:00 AM
Project:	AB&I Foundry, 01-ABI.001	**Matrix:**	GROUNDWATER
Lab ID:	106779-003A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS11_090811A** QC Batch: **A09VW142** PrepDate: Analyst: **SLL**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	2.9	5.0		µg/L	10	8/11/2009 02:51 PM
Dibromochloromethane	ND	4.0	5.0		µg/L	10	8/11/2009 02:51 PM
Dibromomethane	ND	1.9	5.0		µg/L	10	8/11/2009 02:51 PM
Dichlorodifluoromethane	ND	3.3	5.0		µg/L	10	8/11/2009 02:51 PM
Ethylbenzene	ND	2.2	5.0		µg/L	10	8/11/2009 02:51 PM
Hexachlorobutadiene	ND	2.8	5.0		µg/L	10	8/11/2009 02:51 PM
Isopropylbenzene	ND	3.0	5.0		µg/L	10	8/11/2009 02:51 PM
m,p-Xylene	ND	4.9	10		µg/L	10	8/11/2009 02:51 PM
Methylene chloride	ND	10	10		µg/L	10	8/11/2009 02:51 PM
n-Butylbenzene	ND	3.0	5.0		µg/L	10	8/11/2009 02:51 PM
n-Propylbenzene	ND	3.6	5.0		µg/L	10	8/11/2009 02:51 PM
Naphthalene	ND	3.5	5.0		µg/L	10	8/11/2009 02:51 PM
o-Xylene	ND	2.7	5.0		µg/L	10	8/11/2009 02:51 PM
sec-Butylbenzene	ND	3.3	5.0		µg/L	10	8/11/2009 02:51 PM
Styrene	ND	3.8	5.0		µg/L	10	8/11/2009 02:51 PM
tert-Butylbenzene	ND	3.5	5.0		µg/L	10	8/11/2009 02:51 PM
Tetrachloroethene	2.2	1.9	5.0	J	µg/L	10	8/11/2009 02:51 PM
Toluene	ND	2.2	5.0		µg/L	10	8/11/2009 02:51 PM
trans-1,2-Dichloroethene	ND	2.2	5.0		µg/L	10	8/11/2009 02:51 PM
Trichloroethene	ND	1.5	5.0		µg/L	10	8/11/2009 02:51 PM
Trichlorofluoromethane	ND	2.6	5.0		µg/L	10	8/11/2009 02:51 PM
Vinyl chloride	9.6	3.4	5.0		µg/L	10	8/11/2009 02:51 PM
Surr: 1,2-Dichloroethane-d4	92.8	0	70-130		%REC	10	8/11/2009 02:51 PM
Surr: 1,2-Dichloroethane-d4	91.5	0	70-130		%REC	50	8/11/2009 12:44 PM
Surr: 4-Bromofluorobenzene	90.2	0	70-130		%REC	10	8/11/2009 02:51 PM
Surr: 4-Bromofluorobenzene	90.0	0	70-130		%REC	50	8/11/2009 12:44 PM
Surr: Dibromofluoromethane	97.8	0	70-130		%REC	10	8/11/2009 02:51 PM
Surr: Dibromofluoromethane	99.3	0	70-130		%REC	50	8/11/2009 12:44 PM
Surr: Toluene-d8	101	0	70-130		%REC	50	8/11/2009 12:44 PM
Surr: Toluene-d8	102	0	70-130		%REC	10	8/11/2009 02:51 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified
E	Value above quantitation range
J	Analyte detected below quantitation limits
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *17-Aug-09*

CLIENT:	The Source Group Inc.	**Client Sample ID:**	Trip Blank
Lab Order:	106779	**Collection Date:**	
Project:	AB&I Foundry, 01-ABI.001	**Matrix:**	DRINKING WATER
Lab ID:	106779-004A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS11_090811A** QC Batch: **A09VW142** PrepDate: Analyst: **SLL**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.45	0.50		µg/L	1	8/11/2009 10:03 AM
1,1,1-Trichloroethane	ND	0.27	0.50		µg/L	1	8/11/2009 10:03 AM
1,1,2,2-Tetrachloroethane	ND	0.35	0.50		µg/L	1	8/11/2009 10:03 AM
1,1,2-Trichloroethane	ND	0.43	0.50		µg/L	1	8/11/2009 10:03 AM
1,1-Dichloroethane	ND	0.17	0.50		µg/L	1	8/11/2009 10:03 AM
1,1-Dichloroethene	ND	0.19	0.50		µg/L	1	8/11/2009 10:03 AM
1,1-Dichloropropene	ND	0.30	0.50		µg/L	1	8/11/2009 10:03 AM
1,2,3-Trichlorobenzene	ND	0.48	0.50		µg/L	1	8/11/2009 10:03 AM
1,2,3-Trichloropropane	ND	0.24	0.50		µg/L	1	8/11/2009 10:03 AM
1,2,4-Trichlorobenzene	ND	0.43	0.50		µg/L	1	8/11/2009 10:03 AM
1,2,4-Trimethylbenzene	ND	0.44	0.50		µg/L	1	8/11/2009 10:03 AM
1,2-Dibromo-3-chloropropane	ND	0.35	0.50		µg/L	1	8/11/2009 10:03 AM
1,2-Dibromoethane	ND	0.37	0.50		µg/L	1	8/11/2009 10:03 AM
1,2-Dichlorobenzene	ND	0.27	0.50		µg/L	1	8/11/2009 10:03 AM
1,2-Dichloroethane	ND	0.16	0.50		µg/L	1	8/11/2009 10:03 AM
1,2-Dichloropropane	ND	0.20	0.50		µg/L	1	8/11/2009 10:03 AM
1,3,5-Trimethylbenzene	ND	0.36	0.50		µg/L	1	8/11/2009 10:03 AM
1,3-Dichlorobenzene	ND	0.28	0.50		µg/L	1	8/11/2009 10:03 AM
1,3-Dichloropropane	ND	0.32	0.50		µg/L	1	8/11/2009 10:03 AM
1,4-Dichlorobenzene	ND	0.24	0.50		µg/L	1	8/11/2009 10:03 AM
2,2-Dichloropropane	ND	0.32	0.50		µg/L	1	8/11/2009 10:03 AM
2-Chlorotoluene	ND	0.31	0.50		µg/L	1	8/11/2009 10:03 AM
4-Chlorotoluene	ND	0.23	0.50		µg/L	1	8/11/2009 10:03 AM
4-Isopropyltoluene	ND	0.36	0.50		µg/L	1	8/11/2009 10:03 AM
Benzene	ND	0.17	0.50		µg/L	1	8/11/2009 10:03 AM
Bromobenzene	ND	0.21	0.50		µg/L	1	8/11/2009 10:03 AM
Bromodichloromethane	ND	0.39	0.50		µg/L	1	8/11/2009 10:03 AM
Bromoform	ND	0.30	0.50		µg/L	1	8/11/2009 10:03 AM
Bromomethane	ND	0.32	0.50		µg/L	1	8/11/2009 10:03 AM
Carbon tetrachloride	ND	0.38	0.50		µg/L	1	8/11/2009 10:03 AM
Chlorobenzene	ND	0.28	0.50		µg/L	1	8/11/2009 10:03 AM
Chloroethane	ND	0.35	0.50		µg/L	1	8/11/2009 10:03 AM
Chloroform	ND	0.23	0.50		µg/L	1	8/11/2009 10:03 AM
Chloromethane	ND	0.32	0.50		µg/L	1	8/11/2009 10:03 AM
cis-1,2-Dichloroethene	ND	0.15	0.50		µg/L	1	8/11/2009 10:03 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified
E	Value above quantitation range
J	Analyte detected below quantitation limits
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *17-Aug-09*

CLIENT:	The Source Group Inc.	**Client Sample ID:**	Trip Blank
Lab Order:	106779	**Collection Date:**	
Project:	AB&I Foundry, 01-ABI.001	**Matrix:**	DRINKING WATER
Lab ID:	106779-004A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS11_090811A** QC Batch: **A09VW142** PrepDate: Analyst: **SLL**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.29	0.50		µg/L	1	8/11/2009 10:03 AM
Dibromochloromethane	ND	0.40	0.50		µg/L	1	8/11/2009 10:03 AM
Dibromomethane	ND	0.19	0.50		µg/L	1	8/11/2009 10:03 AM
Dichlorodifluoromethane	ND	0.33	0.50		µg/L	1	8/11/2009 10:03 AM
Ethylbenzene	ND	0.22	0.50		µg/L	1	8/11/2009 10:03 AM
Hexachlorobutadiene	ND	0.28	0.50		µg/L	1	8/11/2009 10:03 AM
Isopropylbenzene	ND	0.30	0.50		µg/L	1	8/11/2009 10:03 AM
m,p-Xylene	ND	0.49	1.0		µg/L	1	8/11/2009 10:03 AM
Methylene chloride	ND	1.0	1.0		µg/L	1	8/11/2009 10:03 AM
n-Butylbenzene	ND	0.30	0.50		µg/L	1	8/11/2009 10:03 AM
n-Propylbenzene	ND	0.36	0.50		µg/L	1	8/11/2009 10:03 AM
Naphthalene	ND	0.35	0.50		µg/L	1	8/11/2009 10:03 AM
o-Xylene	ND	0.27	0.50		µg/L	1	8/11/2009 10:03 AM
sec-Butylbenzene	ND	0.33	0.50		µg/L	1	8/11/2009 10:03 AM
Styrene	ND	0.38	0.50		µg/L	1	8/11/2009 10:03 AM
tert-Butylbenzene	ND	0.35	0.50		µg/L	1	8/11/2009 10:03 AM
Tetrachloroethene	ND	0.19	0.50		µg/L	1	8/11/2009 10:03 AM
Toluene	ND	0.22	0.50		µg/L	1	8/11/2009 10:03 AM
trans-1,2-Dichloroethene	ND	0.22	0.50		µg/L	1	8/11/2009 10:03 AM
Trichloroethene	ND	0.15	0.50		µg/L	1	8/11/2009 10:03 AM
Trichlorofluoromethane	ND	0.26	0.50		µg/L	1	8/11/2009 10:03 AM
Vinyl chloride	ND	0.34	0.50		µg/L	1	8/11/2009 10:03 AM
Surr: 1,2-Dichloroethane-d4	91.0	0	70-130		%REC	1	8/11/2009 10:03 AM
Surr: 4-Bromofluorobenzene	89.8	0	70-130		%REC	1	8/11/2009 10:03 AM
Surr: Dibromofluoromethane	91.3	0	70-130		%REC	1	8/11/2009 10:03 AM
Surr: Toluene-d8	101	0	70-130		%REC	1	8/11/2009 10:03 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *17-Aug-09*

CLIENT:	The Source Group Inc.	**Client Sample ID:**	MW-9
Lab Order:	106779	**Collection Date:**	8/7/2009 9:55:00 AM
Project:	AB&I Foundry, 01-ABI.001	**Matrix:**	GROUNDWATER
Lab ID:	106779-001B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
GASOLINE RANGE ORGANICS BY GC/FID						
		EPA 8015B(M)				
RunID: GC6_090810A	QC Batch: I09VW0140			PrepDate:		Analyst: **TT**
GRO	2.4	0.050		mg/L	1	8/10/2009 09:32 PM
Surr: Bromofluorobenzene (FID)	95.7	71-130		%REC	1	8/10/2009 09:32 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *17-Aug-09*

CLIENT:	The Source Group Inc.	**Client Sample ID:**	MW-9
Lab Order:	106779	**Collection Date:**	8/7/2009 9:55:00 AM
Project:	AB&I Foundry, 01-ABI.001	**Matrix:**	GROUNDWATER
Lab ID:	106779-001C		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SILICA GEL CLEANUP DRO BY GC-FID						
EPA 3510C				**EPA 8015B**		
RunID: GC16_090812G	QC Batch: 57209			PrepDate:	8/11/2009	Analyst: **CBR**
DRO	0.34	0.050		mg/L	1	8/13/2009 12:55 AM
Surr: p-Terphenyl	69.1	35-131		%REC	1	8/13/2009 12:55 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *17-Aug-09*

CLIENT:	The Source Group Inc.	**Client Sample ID:**	MW-3
Lab Order:	106779	**Collection Date:**	8/7/2009 10:55:00 AM
Project:	AB&I Foundry, 01-ABI.001	**Matrix:**	GROUNDWATER
Lab ID:	106779-002B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL ORGANIC CARBON						
			SM5310B			
RunID: TOC2_090810A	QC Batch: R111587			PrepDate:		Analyst: **JSD**
Organic Carbon, Total	260	6.0		mg/L	2	8/10/2009 02:44 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *17-Aug-09*

CLIENT:	The Source Group Inc.	**Client Sample ID:**	MW-8
Lab Order:	106779	**Collection Date:**	8/7/2009 11:40:00 AM
Project:	AB&I Foundry, 01-ABI.001	**Matrix:**	GROUNDWATER
Lab ID:	106779-003B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL ORGANIC CARBON						
		SM5310B				
RunID: TOC2_090810A	QC Batch: R111587			PrepDate:		Analyst: **JSD**
Organic Carbon, Total	200	6.0		mg/L	2	8/10/2009 03:41 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT: The Source Group Inc.
Work Order: 106779
Project: AB&I Foundry, 01-ABI.001

ANALYTICAL QC SUMMARY REPORT

TestCode: 415.1_5310B_W

Sample ID: **MB-R111587** SampType: **MBLK** TestCode: **415.1_5310B** Units: **mg/L** Prep Date: RunNo: **111587**
Client ID: **PBW** Batch ID: **R111587** TestNo: **SM5310B** Analysis Date: **8/10/2009** SeqNo: **1759052**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Total	0.329	3.0									

Sample ID: **LCS-R111587** SampType: **LCS** TestCode: **415.1_5310B** Units: **mg/L** Prep Date: RunNo: **111587**
Client ID: **LCSW** Batch ID: **R111587** TestNo: **SM5310B** Analysis Date: **8/10/2009** SeqNo: **1759053**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Total	20.650	3.0	20.00	0.3286	102	80	120				

Sample ID: **106779-003B-MS** SampType: **MS** TestCode: **415.1_5310B** Units: **mg/L** Prep Date: RunNo: **111587**
Client ID: **MW-8** Batch ID: **R111587** TestNo: **SM5310B** Analysis Date: **8/10/2009** SeqNo: **1759056**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Total	232.400	6.0	40.00	202.6	74.5	70	130				

Sample ID: **106779-003B-MSD** SampType: **MSD** TestCode: **415.1_5310B** Units: **mg/L** Prep Date: RunNo: **111587**
Client ID: **MW-8** Batch ID: **R111587** TestNo: **SM5310B** Analysis Date: **8/10/2009** SeqNo: **1759057**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Total	231.000	6.0	40.00	202.6	71.0	70	130	232.4	0.604	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: The Source Group Inc.
Work Order: 106779
Project: AB&I Foundry, 01-ABI.001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_DSL_LLSGT

Sample ID: **MB-57209** SampType: **MBLK** TestCode: **8015_W_DSL** Units: **mg/L** Prep Date: **8/11/2009** RunNo: **111745**
Client ID: **PBW** Batch ID: **57209** TestNo: **EPA 8015B** **EPA 3510C** Analysis Date: **8/12/2009** SeqNo: **1762269**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	ND	0.050									
Surr: p-Terphenyl	0.059		0.08000		74.0	35	131				

Sample ID: **LCS-57209** SampType: **LCS** TestCode: **8015_W_DSL** Units: **mg/L** Prep Date: **8/11/2009** RunNo: **111745**
Client ID: **LCSW** Batch ID: **57209** TestNo: **EPA 8015B** **EPA 3510C** Analysis Date: **8/13/2009** SeqNo: **1762270**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	0.986	0.050	1.000	0	98.6	42	118				
Surr: p-Terphenyl	0.048		0.08000		60.1	35	131				

Sample ID: **MB-57209MS** SampType: **MS** TestCode: **8015_W_DSL** Units: **mg/L** Prep Date: **8/11/2009** RunNo: **111745**
Client ID: **ZZZZZZ** Batch ID: **57209** TestNo: **EPA 8015B** **EPA 3510C** Analysis Date: **8/13/2009** SeqNo: **1762271**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	0.940	0.050	1.000	0	94.0	42	118				
Surr: p-Terphenyl	0.045		0.08000		56.7	35	131				

Sample ID: **MB-57209MSD** SampType: **MSD** TestCode: **8015_W_DSL** Units: **mg/L** Prep Date: **8/11/2009** RunNo: **111745**
Client ID: **ZZZZZZ** Batch ID: **57209** TestNo: **EPA 8015B** **EPA 3510C** Analysis Date: **8/13/2009** SeqNo: **1762272**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	0.866	0.050	1.000	0	86.6	42	118	0.9401	8.24	20	
Surr: p-Terphenyl	0.036		0.08000		45.3	35	131		0	0	

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: The Source Group Inc.
Work Order: 106779
Project: AB&I Foundry, 01-ABI.001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_GP LL

Sample ID: **I090810MB2MS** SampType: **MS** TestCode: **8015_W_GP** Units: **mg/L** Prep Date: RunNo: **111564**
Client ID: **ZZZZZZ** Batch ID: **I09VW0140** TestNo: **EPA 8015B(M** Analysis Date: **8/10/2009** SeqNo: **1759179**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	0.819	0.050	1.000	0	81.9	69	125				
Surr: Bromofluorobenzene (FID)	92.676		100.0		92.7	71	130				

Sample ID: **I090810LCS2** SampType: **LCS** TestCode: **8015_W_GP** Units: **mg/L** Prep Date: RunNo: **111564**
Client ID: **LCSW** Batch ID: **I09VW0140** TestNo: **EPA 8015B(M** Analysis Date: **8/10/2009** SeqNo: **1759180**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	0.796	0.050	1.000	0	79.6	69	125				
Surr: Bromofluorobenzene (FID)	91.203		100.0		91.2	71	130				

Sample ID: **I090810MB2MSD** SampType: **MSD** TestCode: **8015_W_GP** Units: **mg/L** Prep Date: RunNo: **111564**
Client ID: **ZZZZZZ** Batch ID: **I09VW0140** TestNo: **EPA 8015B(M** Analysis Date: **8/10/2009** SeqNo: **1759181**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	0.808	0.050	1.000	0	80.8	69	125	0.8190	1.35	20	
Surr: Bromofluorobenzene (FID)	93.251		100.0		93.3	71	130		0	0	

Sample ID: **I090810MB2** SampType: **MBLK** TestCode: **8015_W_GP** Units: **mg/L** Prep Date: RunNo: **111564**
Client ID: **PBW** Batch ID: **I09VW0140** TestNo: **EPA 8015B(M** Analysis Date: **8/10/2009** SeqNo: **1759182**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	ND	0.050									
Surr: Bromofluorobenzene (FID)	91.736		100.0		91.7	71	130				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: The Source Group Inc.
Work Order: 106779
Project: AB&I Foundry, 01-ABI.001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A090811LCS1** SampType: **LCS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **111640**
Client ID: **LCSW** Batch ID: **A09VW142** TestNo: **EPA 8260B** Analysis Date: **8/11/2009** SeqNo: **1760078**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	22.070	0.50	20.00	0	110	70	130				
Benzene	39.220	0.50	40.00	0	98.0	70	130				
Chlorobenzene	20.220	0.50	20.00	0	101	70	130				
MTBE	20.660	0.50	20.00	0	103	70	130				
Toluene	40.200	0.50	40.00	0	101	70	130				
Trichloroethene	21.020	0.50	20.00	0	105	70	130				
Surr: 1,2-Dichloroethane-d4	23.590		25.00		94.4	70	130				
Surr: 4-Bromofluorobenzene	23.150		25.00		92.6	70	130				
Surr: Dibromofluoromethane	24.770		25.00		99.1	70	130				
Surr: Toluene-d8	25.380		25.00		102	70	130				

Sample ID: **A090811MB2MS** SampType: **MS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **111640**
Client ID: **ZZZZZZ** Batch ID: **A09VW142** TestNo: **EPA 8260B** Analysis Date: **8/11/2009** SeqNo: **1760079**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	18.270	0.50	20.00	0	91.4	70	130				
Benzene	37.200	0.50	40.00	0	93.0	70	130				
Chlorobenzene	19.490	0.50	20.00	0	97.5	70	130				
Toluene	37.800	0.50	40.00	0	94.5	70	130				
Trichloroethene	19.340	0.50	20.00	0	96.7	70	130				
Surr: 1,2-Dichloroethane-d4	23.540		25.00		94.2	70	130				
Surr: 4-Bromofluorobenzene	22.980		25.00		91.9	70	130				
Surr: Dibromofluoromethane	24.510		25.00		98.0	70	130				
Surr: Toluene-d8	25.050		25.00		100	70	130				

Sample ID: **A090811MB2MSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **111640**
Client ID: **ZZZZZZ** Batch ID: **A09VW142** TestNo: **EPA 8260B** Analysis Date: **8/11/2009** SeqNo: **1760080**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	22.190	0.50	20.00	0	111	70	130	18.27	19.4	20	

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: The Source Group Inc.
Work Order: 106779
Project: AB&I Foundry, 01-ABI.001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A090811MB2MSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **111640**
Client ID: **ZZZZZZ** Batch ID: **A09VW142** TestNo: **EPA 8260B** Analysis Date: **8/11/2009** SeqNo: **1760080**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	38.050	0.50	40.00	0	95.1	70	130	37.20	2.26	20	
Chlorobenzene	19.460	0.50	20.00	0	97.3	70	130	19.49	0.154	20	
Toluene	39.210	0.50	40.00	0	98.0	70	130	37.80	3.66	20	
Trichloroethene	20.560	0.50	20.00	0	103	70	130	19.34	6.12	20	
Surr: 1,2-Dichloroethane-d4	23.800		25.00		95.2	70	130		0	20	
Surr: 4-Bromofluorobenzene	23.000		25.00		92.0	70	130		0	20	
Surr: Dibromofluoromethane	24.940		25.00		99.8	70	130		0	20	
Surr: Toluene-d8	25.290		25.00		101	70	130		0	20	

Sample ID: **A090811MB2** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **111640**
Client ID: **PBW** Batch ID: **A09VW142** TestNo: **EPA 8260B** Analysis Date: **8/11/2009** SeqNo: **1760081**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	0.50									
1,1,1-Trichloroethane	ND	0.50									
1,1,2,2-Tetrachloroethane	ND	0.50									
1,1,2-Trichloroethane	ND	0.50									
1,1-Dichloroethane	ND	0.50									
1,1-Dichloroethene	ND	0.50									
1,1-Dichloropropene	ND	0.50									
1,2,3-Trichlorobenzene	ND	0.50									
1,2,3-Trichloropropane	ND	0.50									
1,2,4-Trichlorobenzene	ND	0.50									
1,2,4-Trimethylbenzene	ND	0.50									
1,2-Dibromo-3-chloropropane	ND	0.50									
1,2-Dibromoethane	ND	0.50									
1,2-Dichlorobenzene	ND	0.50									
1,2-Dichloroethane	ND	0.50									
1,2-Dichloropropane	ND	0.50									
1,3,5-Trimethylbenzene	ND	0.50									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: The Source Group Inc.
Work Order: 106779
Project: AB&I Foundry, 01-ABI.001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A090811MB2** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **111640**
Client ID: **PBW** Batch ID: **A09VW142** TestNo: **EPA 8260B** Analysis Date: **8/11/2009** SeqNo: **1760081**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Dichlorobenzene	ND	0.50									
1,3-Dichloropropane	ND	0.50									
1,4-Dichlorobenzene	ND	0.50									
2,2-Dichloropropane	ND	0.50									
2-Chlorotoluene	ND	0.50									
4-Chlorotoluene	ND	0.50									
4-Isopropyltoluene	ND	0.50									
Benzene	ND	0.50									
Bromobenzene	ND	0.50									
Bromodichloromethane	ND	0.50									
Bromoform	ND	0.50									
Bromomethane	ND	0.50									
Carbon tetrachloride	ND	0.50									
Chlorobenzene	ND	0.50									
Chloroethane	ND	0.50									
Chloroform	ND	0.50									
Chloromethane	ND	0.50									
cis-1,2-Dichloroethene	ND	0.50									
cis-1,3-Dichloropropene	ND	0.50									
Dibromochloromethane	ND	0.50									
Dibromomethane	ND	0.50									
Dichlorodifluoromethane	ND	0.50									
Ethylbenzene	ND	0.50									
Hexachlorobutadiene	ND	0.50									
Isopropylbenzene	ND	0.50									
m,p-Xylene	ND	1.0									
Methylene chloride	ND	1.0									
n-Butylbenzene	ND	0.50									
n-Propylbenzene	ND	0.50									
Naphthalene	ND	0.50									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: The Source Group Inc.
Work Order: 106779
Project: AB&I Foundry, 01-ABI.001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A090811MB2** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **111640**
Client ID: **PBW** Batch ID: **A09VW142** TestNo: **EPA 8260B** Analysis Date: **8/11/2009** SeqNo: **1760081**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
o-Xylene	ND	0.50									
sec-Butylbenzene	ND	0.50									
Styrene	ND	0.50									
tert-Butylbenzene	ND	0.50									
Tetrachloroethene	ND	0.50									
Toluene	ND	0.50									
trans-1,2-Dichloroethene	ND	0.50									
Trichloroethene	ND	0.50									
Trichlorofluoromethane	ND	0.50									
Vinyl chloride	ND	0.50									
Surr: 1,2-Dichloroethane-d4	22.630		25.00		90.5	70	130				
Surr: 4-Bromofluorobenzene	22.470		25.00		89.9	70	130				
Surr: Dibromofluoromethane	24.980		25.00		99.9	70	130				
Surr: Toluene-d8	25.240		25.00		101	70	130				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

Air TECHNOLOGY Laboratories, Inc.

August 19, 2009

FL Cert #E87847/LA Cert #04140
EPA Methods TO3, TO14A, TO15, 25C/3C
RSK-175
TX Cert #T104704450-09-TX
EPA Methods TO14A,TO15
AZ Dept of Health Services #AZ0737
EPA Methods TO3, TO14A, TO15, 15, 16, 25C

Advanced Technology Labs, Inc.
ATTN: Rachelle Arada
3275 Walnut Ave.
Signal Hill, CA 90755

LABORATORY TEST RESULTS

Project Reference: 106779
Lab Number: A9081102-01/02

Enclosed are results for sample(s) received 8/11/09 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

- Sample analyses were performed within method performance criteria, and meet all requirements of the NELAC Standards.
- All results are reported without qualifications unless otherwise noted.

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com

Enclosures

Note: The cover letter is an integral part of this analytical report.

Client: Advanced Technology Laboratories
Attn: Rachelle Arada

Client's Project: 106779
Date Received: 8/11/09
Matrix: Water
Units: ug/L

Dissolved Gases by EPA Procedure RSKSOP-175

Lab No.:	A9081102-01	A9081102-02
Client Sample I.D.:	106779-002C / MW-3	106779-003C / MW-8
Date Sampled:	8/7/09	8/7/09
Date Analyzed:	8/12/09	8/12/09
Analyst Initials:	ZK	ZK
Data File:	11aug039	11aug040
QC Batch:	090811GC8A1	090811GC8A1
Dilution Factor:	1.0	1.0

ANALYTE	PQL	RL	Results	RL	Results
Methane	1.0	1.0	63	1.0	460
Ethane	2.0	2.0	2.7	2.0	5.9
Ethylene	3.0	3.0	16	3.0	ND

PQL = Practical Quantitation Limit
ND = Not Detected (Below RL)
RL = PQL X Dilution Factor

Reviewed/Approved By: _____ **Date:** 8-18-09
Mark J. Johnson
Operations Manager

The cover letter is an integral part of this analytical report

QC Batch No.: 090811GC8A1
Matrix: Water
Units: ug/L

QC for Dissolved Gases by EPA Procedure RSKSOP-175

Lab No.:		Method Blank		LCS		LCSD			
Date Analyzed:		08/11/09		08/11/09		08/11/09			
Analyst Initials:		ZK		ZK		ZK			
Datafile:		11aug020		11aug017		11aug018			
Dilution Factor:		1.0		1.0		1.0			
ANALYTE	PQL	RL	Results	% Rec.	Criteria	% Rec.	Criteria	%RPD	Criteria
Methane	1.0	1.0	ND	100	70-130%	103	70-130%	3.6	<30
Ethane	2.0	2.0	ND	110	70-130%	107	70-130%	2.9	<30
Ethylene	3.0	3.0	ND	105	70-130%	107	70-130%	2.1	<30

PQL = Practical Quantitation Limit
ND = Not Detected (Below RL).
RL = PQL X Dilution Factor

Reviewed/Approved By: _____ **Date:** 8-18-09
Mark J. Johnson
Operations Manager

The cover letter is an integral part of this analytical report.

A9081102-01/02

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755-5225
www.atlglobal.com
TEL: (562) 989-4045 FAX: (562) 989-4040

CHAIN-OF-CUSTODY RECORD

QC Level: RWQCB

Subcontractor:

Air Technology Laboratories
18501 E. Gale Ave, Suite 130
City of Industry, CA 91748

TEL: (626) 964-4032
FAX: (626) 964-5832
Acct #:

Field Sampler: Nathan Collen

08-Aug-09

	Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests: RSK175		
01	106779-002C / MW-3	Groundwater	8/7/2009 10:55:00 AM	VOA	1		
02	106779-003C / MW-8	Groundwater	8/7/2009 11:40:00 AM	VOA	1		

4.8°C

General Comments: Please email sample receipt acknowledgement to the PM.

Please use PO#: SC04859 Please fax results by:Normal TAT

Please report Methane, Ethane, Ethene only

Please send report to Rachelle Arada

		Date/Time			Date/Time
Relinquished by:		8/8/09 11:11	**Received by:**		8/11/09 855a
Relinquished by:			**Received by:**		

CHAIN OF CUSTODY RECORD

Pg 1 of 1

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755
(562) 989-4045 • Fax (562) 989-4040

FOR LABORATORY USE ONLY:

P.O.#: _____
Logged By: _____ Date: 8/6/09

Method of Transport: Client ☐ ATL ☐ CA OverN ☑ FEDEX ☐ Other: _____

Sample Condition Upon Receipt: 5.0
1. CHILLED Y☐ N☐ 4. CUSTODY SEAL Y☐ N☑
2. HEADSPACE (VOA) Y☐ N☑ 5. # OF SPLS MATCH COC Y☑ N☐
3. CONTAINER INTACT Y☑ N☐ 6. PRESERVED Y☑ N☐

Client: The Source Group, Inc. Address: 3451-C Vincent Rd. TEL: (925) 944-2856 x325
Attn: Kent Reynolds City Pleasant Hill State CA Zip Code 94523 FAX: 925) 944-2859

Project Name: ABI Foundry Project #: 01-ABI.001 Sampler: (Printed Name) Nathan Cilen (Signature)

Relinquished by: (Signature and Printed Name) Nathan Cilen	Date: 8/7/09	Time: 1420	Received by: (Signature and Printed Name)	Date: 8/8/09	Time: 1015
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: Nathan Cilen 8/7/09 (Print Name / Date)
Signature

Send Report To:
Attn: Kent Reynolds
Co: The Source Group, Inc.
Address: 3451-C Vincent Rd.
City Pleasant Hill State CA Zip 94523

Bill To:
Attn: _____
Co: SAME
Address _____
City _____ State _____ Zip _____

Special Instructions/Comments:
0.5 µg/L reporting limit for ~~VOCs~~ vinyl chloride
Geotracker ID: T0600100065
Include EDD + EDF

Sample/Records - Archival & Disposal
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.

Storage Fees (applies when storage is requested):
- Sample : $2.00 / sample / mo (after 45 days)
- Records : $1.00 / ATL workorder / mo (after 1 year)

Circle or Add Analysis(es) Requested: 8081A (Pesticides), 8082 (PCB), 8260B (Volatiles), 8270C (BNA), 6010B (Total Metal), 8015B (GRO) / ~~8020 (BTEX)~~, 8015B (DRO), 8021 (BTEX), TITLE 22 / CAM 17 (6010 / 7000), Silica Gel c/u, Methanol, Ethanol, Ethanol TOC

SPECIFY APPROPRIATE MATRIX: SOLID, SOIL, DRINKING WATER, GROUND WATER, WASTEWATER, STORMWATER, AQUEOUS

ITEM	LAB USE ONLY: Batch #: / Lab No.	Sample Description: Sample I.D. / Location	Date	Time	TAT	Container(s) #	Container(s) Type	PRESERVATION	REMARKS
	106779-001	MW-9	8/7/09	955	E	7		H	
	2	MW-3		1055	E	9		H	
	3	MW-8		1140	E	9		H	
	4	Trip Blank	—		E	3/1		H	

QA/QC: RTNE ☐ CT ☐ SWRCB ☐ Logcode ____ OTHER ____

- TAT starts 8 a.m. following day if samples received after 3 p.m.

TAT: A= Overnight ≤ 24 hr B= Emergency Next workday C= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Preservatives: H=HCl N=HNO_3 S=H_2SO_4 C=4°C Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$

DISTRIBUTION: **White** with report, **Yellow** to folder, **Pink** to submitter.

SEPTEMBER 2009 ANALYTICAL DATA

September 18, 2009

Kent Reynolds
The Source Group Inc.
3451 Vincent Dr., Suite C
Pleasant Hill, CA 94523

TEL: (925) 944-2856
FAX: (925) 944-2859

ELAP No.: 1838
NELAP No.: 02107CA
NEVADA.: CA-401
CSDLAC No.: 10196

Workorder No.: 107363

RE: AB&I Foundry, 01-ABI.001

Attention: Kent Reynolds

Enclosed are the results for sample(s) received on September 11, 2009 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez
Laboratory Director

CLIENT: The Source Group Inc.
Project: AB&I Foundry, 01-ABI.001
Lab Order: 107363

CASE NARRATIVE

Analytical Comments for SM 5310B

Sample 107363-003B-MS, Matrix Spike (MS) is outside recovery criteria; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

Analytical Comments for EPA 8015B (DRO)

Samples MB-58179, MB-85179MS and MB-58179MSD, surrogate recovery biased low. The sample was reanalyzed and demonstrated the same low recovery.

Analytical Comments for EPA 8260B

Results were J-Flag. "J" is used to flag those results that are between the PQL (Practical Quantitation Limit) and the calculated MDL (Method Detection Limit). Results that are "J" Flagged are estimated values since it becomes difficult to accurately quantitate the analyte near the MDL.

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

CLIENT:	The Source Group Inc.	**Client Sample ID:**	MW-9
Lab Order:	107363	**Collection Date:**	9/10/2009 8:55:00 AM
Project:	AB&I Foundry, 01-ABI.001	**Matrix:**	GROUNDWATER
Lab ID:	107363-001A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS11_090916B** QC Batch: **A09VW167** PrepDate: Analyst: **SLL**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.45	0.50		µg/L	1	9/17/2009 02:29 AM
1,1,1-Trichloroethane	ND	0.27	0.50		µg/L	1	9/17/2009 02:29 AM
1,1,2,2-Tetrachloroethane	ND	0.35	0.50		µg/L	1	9/17/2009 02:29 AM
1,1,2-Trichloroethane	ND	0.43	0.50		µg/L	1	9/17/2009 02:29 AM
1,1-Dichloroethane	ND	0.17	0.50		µg/L	1	9/17/2009 02:29 AM
1,1-Dichloroethene	ND	0.19	0.50		µg/L	1	9/17/2009 02:29 AM
1,1-Dichloropropene	ND	0.30	0.50		µg/L	1	9/17/2009 02:29 AM
1,2,3-Trichlorobenzene	ND	0.48	0.50		µg/L	1	9/17/2009 02:29 AM
1,2,3-Trichloropropane	ND	0.24	0.50		µg/L	1	9/17/2009 02:29 AM
1,2,4-Trichlorobenzene	ND	0.43	0.50		µg/L	1	9/17/2009 02:29 AM
1,2,4-Trimethylbenzene	ND	0.44	0.50		µg/L	1	9/17/2009 02:29 AM
1,2-Dibromo-3-chloropropane	ND	0.35	0.50		µg/L	1	9/17/2009 02:29 AM
1,2-Dibromoethane	ND	0.37	0.50		µg/L	1	9/17/2009 02:29 AM
1,2-Dichlorobenzene	ND	0.27	0.50		µg/L	1	9/17/2009 02:29 AM
1,2-Dichloroethane	ND	0.16	0.50		µg/L	1	9/17/2009 02:29 AM
1,2-Dichloropropane	ND	0.20	0.50		µg/L	1	9/17/2009 02:29 AM
1,3,5-Trimethylbenzene	0.44	0.36	0.50	J	µg/L	1	9/17/2009 02:29 AM
1,3-Dichlorobenzene	ND	0.28	0.50		µg/L	1	9/17/2009 02:29 AM
1,3-Dichloropropane	ND	0.32	0.50		µg/L	1	9/17/2009 02:29 AM
1,4-Dichlorobenzene	ND	0.24	0.50		µg/L	1	9/17/2009 02:29 AM
2,2-Dichloropropane	ND	0.32	0.50		µg/L	1	9/17/2009 02:29 AM
2-Chlorotoluene	ND	0.31	0.50		µg/L	1	9/17/2009 02:29 AM
4-Chlorotoluene	ND	0.23	0.50		µg/L	1	9/17/2009 02:29 AM
4-Isopropyltoluene	4.2	0.36	0.50		µg/L	1	9/17/2009 02:29 AM
Benzene	5.7	0.17	0.50		µg/L	1	9/17/2009 02:29 AM
Bromobenzene	ND	0.21	0.50		µg/L	1	9/17/2009 02:29 AM
Bromodichloromethane	ND	0.39	0.50		µg/L	1	9/17/2009 02:29 AM
Bromoform	ND	0.30	0.50		µg/L	1	9/17/2009 02:29 AM
Bromomethane	ND	0.32	0.50		µg/L	1	9/17/2009 02:29 AM
Carbon tetrachloride	ND	0.38	0.50		µg/L	1	9/17/2009 02:29 AM
Chlorobenzene	ND	0.28	0.50		µg/L	1	9/17/2009 02:29 AM
Chloroethane	ND	0.35	0.50		µg/L	1	9/17/2009 02:29 AM
Chloroform	ND	0.23	0.50		µg/L	1	9/17/2009 02:29 AM
Chloromethane	ND	0.32	0.50		µg/L	1	9/17/2009 02:29 AM
cis-1,2-Dichloroethene	ND	0.15	0.50		µg/L	1	9/17/2009 02:29 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified
E	Value above quantitation range
J	Analyte detected below quantitation limits
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out

CLIENT:	The Source Group Inc.	**Client Sample ID:**	MW-9
Lab Order:	107363	**Collection Date:**	9/10/2009 8:55:00 AM
Project:	AB&I Foundry, 01-ABI.001	**Matrix:**	GROUNDWATER
Lab ID:	107363-001A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS11_090916B** QC Batch: **A09VW167** PrepDate: Analyst: **SLL**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.29	0.50		µg/L	1	9/17/2009 02:29 AM
Dibromochloromethane	ND	0.40	0.50		µg/L	1	9/17/2009 02:29 AM
Dibromomethane	ND	0.19	0.50		µg/L	1	9/17/2009 02:29 AM
Dichlorodifluoromethane	ND	0.33	0.50		µg/L	1	9/17/2009 02:29 AM
Ethylbenzene	1.4	0.22	0.50		µg/L	1	9/17/2009 02:29 AM
Hexachlorobutadiene	ND	0.28	0.50		µg/L	1	9/17/2009 02:29 AM
Isopropylbenzene	4.0	0.30	0.50		µg/L	1	9/17/2009 02:29 AM
m,p-Xylene	1.7	0.49	1.0		µg/L	1	9/17/2009 02:29 AM
Methylene chloride	ND	1.0	1.0		µg/L	1	9/17/2009 02:29 AM
n-Butylbenzene	0.45	0.30	0.50	J	µg/L	1	9/17/2009 02:29 AM
n-Propylbenzene	3.8	0.36	0.50		µg/L	1	9/17/2009 02:29 AM
Naphthalene	0.87	0.35	0.50		µg/L	1	9/17/2009 02:29 AM
o-Xylene	ND	0.27	0.50		µg/L	1	9/17/2009 02:29 AM
sec-Butylbenzene	0.77	0.33	0.50		µg/L	1	9/17/2009 02:29 AM
Styrene	ND	0.38	0.50		µg/L	1	9/17/2009 02:29 AM
tert-Butylbenzene	ND	0.35	0.50		µg/L	1	9/17/2009 02:29 AM
Tetrachloroethene	ND	0.19	0.50		µg/L	1	9/17/2009 02:29 AM
Toluene	0.36	0.22	0.50	J	µg/L	1	9/17/2009 02:29 AM
trans-1,2-Dichloroethene	ND	0.22	0.50		µg/L	1	9/17/2009 02:29 AM
Trichloroethene	ND	0.15	0.50		µg/L	1	9/17/2009 02:29 AM
Trichlorofluoromethane	ND	0.26	0.50		µg/L	1	9/17/2009 02:29 AM
Vinyl chloride	ND	0.34	0.50		µg/L	1	9/17/2009 02:29 AM
Surr: 1,2-Dichloroethane-d4	81.3	0	70-130		%REC	1	9/17/2009 02:29 AM
Surr: 4-Bromofluorobenzene	87.1	0	70-130		%REC	1	9/17/2009 02:29 AM
Surr: Dibromofluoromethane	83.3	0	70-130		%REC	1	9/17/2009 02:29 AM
Surr: Toluene-d8	96.6	0	70-130		%REC	1	9/17/2009 02:29 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *18-Sep-09*

CLIENT:	The Source Group Inc.	**Client Sample ID:**	MW-3
Lab Order:	107363	**Collection Date:**	9/10/2009 9:55:00 AM
Project:	AB&I Foundry, 01-ABI.001	**Matrix:**	GROUNDWATER
Lab ID:	107363-002A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS11_090916B** QC Batch: **A09VW167** PrepDate: Analyst: **SLL**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.45	0.50		µg/L	1	9/17/2009 02:10 AM
1,1,1-Trichloroethane	ND	0.27	0.50		µg/L	1	9/17/2009 02:10 AM
1,1,2,2-Tetrachloroethane	ND	0.35	0.50		µg/L	1	9/17/2009 02:10 AM
1,1,2-Trichloroethane	ND	0.43	0.50		µg/L	1	9/17/2009 02:10 AM
1,1-Dichloroethane	5.6	0.17	0.50		µg/L	1	9/17/2009 02:10 AM
1,1-Dichloroethene	11	0.19	0.50		µg/L	1	9/17/2009 02:10 AM
1,1-Dichloropropene	ND	0.30	0.50		µg/L	1	9/17/2009 02:10 AM
1,2,3-Trichlorobenzene	ND	0.48	0.50		µg/L	1	9/17/2009 02:10 AM
1,2,3-Trichloropropane	ND	0.24	0.50		µg/L	1	9/17/2009 02:10 AM
1,2,4-Trichlorobenzene	ND	0.43	0.50		µg/L	1	9/17/2009 02:10 AM
1,2,4-Trimethylbenzene	ND	0.44	0.50		µg/L	1	9/17/2009 02:10 AM
1,2-Dibromo-3-chloropropane	ND	0.35	0.50		µg/L	1	9/17/2009 02:10 AM
1,2-Dibromoethane	ND	0.37	0.50		µg/L	1	9/17/2009 02:10 AM
1,2-Dichlorobenzene	ND	0.27	0.50		µg/L	1	9/17/2009 02:10 AM
1,2-Dichloroethane	ND	0.16	0.50		µg/L	1	9/17/2009 02:10 AM
1,2-Dichloropropane	ND	0.20	0.50		µg/L	1	9/17/2009 02:10 AM
1,3,5-Trimethylbenzene	ND	0.36	0.50		µg/L	1	9/17/2009 02:10 AM
1,3-Dichlorobenzene	ND	0.28	0.50		µg/L	1	9/17/2009 02:10 AM
1,3-Dichloropropane	ND	0.32	0.50		µg/L	1	9/17/2009 02:10 AM
1,4-Dichlorobenzene	ND	0.24	0.50		µg/L	1	9/17/2009 02:10 AM
2,2-Dichloropropane	ND	0.32	0.50		µg/L	1	9/17/2009 02:10 AM
2-Chlorotoluene	ND	0.31	0.50		µg/L	1	9/17/2009 02:10 AM
4-Chlorotoluene	ND	0.23	0.50		µg/L	1	9/17/2009 02:10 AM
4-Isopropyltoluene	ND	0.36	0.50		µg/L	1	9/17/2009 02:10 AM
Benzene	0.72	0.17	0.50		µg/L	1	9/17/2009 02:10 AM
Bromobenzene	ND	0.21	0.50		µg/L	1	9/17/2009 02:10 AM
Bromodichloromethane	ND	0.39	0.50		µg/L	1	9/17/2009 02:10 AM
Bromoform	ND	0.30	0.50		µg/L	1	9/17/2009 02:10 AM
Bromomethane	ND	0.32	0.50		µg/L	1	9/17/2009 02:10 AM
Carbon tetrachloride	ND	0.38	0.50		µg/L	1	9/17/2009 02:10 AM
Chlorobenzene	ND	0.28	0.50		µg/L	1	9/17/2009 02:10 AM
Chloroethane	150	1.8	2.5		µg/L	5	9/17/2009 08:26 AM
Chloroform	ND	0.23	0.50		µg/L	1	9/17/2009 02:10 AM
Chloromethane	ND	0.32	0.50		µg/L	1	9/17/2009 02:10 AM
cis-1,2-Dichloroethene	0.20	0.15	0.50	J	µg/L	1	9/17/2009 02:10 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified
E	Value above quantitation range
J	Analyte detected below quantitation limits
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *18-Sep-09*

CLIENT:	The Source Group Inc.	**Client Sample ID:**	MW-3
Lab Order:	107363	**Collection Date:**	9/10/2009 9:55:00 AM
Project:	AB&I Foundry, 01-ABI.001	**Matrix:**	GROUNDWATER
Lab ID:	107363-002A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS11_090916B** QC Batch: **A09VW167** PrepDate: Analyst: **SLL**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.29	0.50		µg/L	1	9/17/2009 02:10 AM
Dibromochloromethane	ND	0.40	0.50		µg/L	1	9/17/2009 02:10 AM
Dibromomethane	ND	0.19	0.50		µg/L	1	9/17/2009 02:10 AM
Dichlorodifluoromethane	ND	0.33	0.50		µg/L	1	9/17/2009 02:10 AM
Ethylbenzene	ND	0.22	0.50		µg/L	1	9/17/2009 02:10 AM
Hexachlorobutadiene	ND	0.28	0.50		µg/L	1	9/17/2009 02:10 AM
Isopropylbenzene	ND	0.30	0.50		µg/L	1	9/17/2009 02:10 AM
m,p-Xylene	ND	0.49	1.0		µg/L	1	9/17/2009 02:10 AM
Methylene chloride	ND	1.0	1.0		µg/L	1	9/17/2009 02:10 AM
n-Butylbenzene	ND	0.30	0.50		µg/L	1	9/17/2009 02:10 AM
n-Propylbenzene	ND	0.36	0.50		µg/L	1	9/17/2009 02:10 AM
Naphthalene	ND	0.35	0.50		µg/L	1	9/17/2009 02:10 AM
o-Xylene	ND	0.27	0.50		µg/L	1	9/17/2009 02:10 AM
sec-Butylbenzene	ND	0.33	0.50		µg/L	1	9/17/2009 02:10 AM
Styrene	ND	0.38	0.50		µg/L	1	9/17/2009 02:10 AM
tert-Butylbenzene	ND	0.35	0.50		µg/L	1	9/17/2009 02:10 AM
Tetrachloroethene	ND	0.19	0.50		µg/L	1	9/17/2009 02:10 AM
Toluene	9.8	0.22	0.50		µg/L	1	9/17/2009 02:10 AM
trans-1,2-Dichloroethene	0.47	0.22	0.50	J	µg/L	1	9/17/2009 02:10 AM
Trichloroethene	ND	0.15	0.50		µg/L	1	9/17/2009 02:10 AM
Trichlorofluoromethane	ND	0.26	0.50		µg/L	1	9/17/2009 02:10 AM
Vinyl chloride	3.6	0.34	0.50		µg/L	1	9/17/2009 02:10 AM
Surr: 1,2-Dichloroethane-d4	78.1	0	70-130		%REC	1	9/17/2009 02:10 AM
Surr: 1,2-Dichloroethane-d4	72.6	0	70-130		%REC	5	9/17/2009 08:26 AM
Surr: 4-Bromofluorobenzene	84.9	0	70-130		%REC	1	9/17/2009 02:10 AM
Surr: 4-Bromofluorobenzene	85.0	0	70-130		%REC	5	9/17/2009 08:26 AM
Surr: Dibromofluoromethane	87.8	0	70-130		%REC	1	9/17/2009 02:10 AM
Surr: Dibromofluoromethane	86.2	0	70-130		%REC	5	9/17/2009 08:26 AM
Surr: Toluene-d8	96.0	0	70-130		%REC	5	9/17/2009 08:26 AM
Surr: Toluene-d8	94.9	0	70-130		%REC	1	9/17/2009 02:10 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified
E	Value above quantitation range
J	Analyte detected below quantitation limits
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *18-Sep-09*

CLIENT:	The Source Group Inc.	**Client Sample ID:**	MW-8
Lab Order:	107363	**Collection Date:**	9/10/2009 10:50:00 AM
Project:	AB&I Foundry, 01-ABI.001	**Matrix:**	GROUNDWATER
Lab ID:	107363-003A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS11_090916B** QC Batch: **A09VW167** PrepDate: Analyst: **SLL**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	2.3	2.5		µg/L	5	9/17/2009 03:08 AM
1,1,1-Trichloroethane	45	1.3	2.5		µg/L	5	9/17/2009 03:08 AM
1,1,2,2-Tetrachloroethane	ND	1.7	2.5		µg/L	5	9/17/2009 03:08 AM
1,1,2-Trichloroethane	ND	2.2	2.5		µg/L	5	9/17/2009 03:08 AM
1,1-Dichloroethane	2600	8.3	25		µg/L	50	9/17/2009 03:28 AM
1,1-Dichloroethene	1100	9.5	25		µg/L	50	9/17/2009 03:28 AM
1,1-Dichloropropene	ND	1.5	2.5		µg/L	5	9/17/2009 03:08 AM
1,2,3-Trichlorobenzene	ND	2.4	2.5		µg/L	5	9/17/2009 03:08 AM
1,2,3-Trichloropropane	ND	1.2	2.5		µg/L	5	9/17/2009 03:08 AM
1,2,4-Trichlorobenzene	ND	2.2	2.5		µg/L	5	9/17/2009 03:08 AM
1,2,4-Trimethylbenzene	ND	2.2	2.5		µg/L	5	9/17/2009 03:08 AM
1,2-Dibromo-3-chloropropane	ND	1.8	2.5		µg/L	5	9/17/2009 03:08 AM
1,2-Dibromoethane	ND	1.9	2.5		µg/L	5	9/17/2009 03:08 AM
1,2-Dichlorobenzene	ND	1.4	2.5		µg/L	5	9/17/2009 03:08 AM
1,2-Dichloroethane	1.7	0.82	2.5	J	µg/L	5	9/17/2009 03:08 AM
1,2-Dichloropropane	ND	1.0	2.5		µg/L	5	9/17/2009 03:08 AM
1,3,5-Trimethylbenzene	ND	1.8	2.5		µg/L	5	9/17/2009 03:08 AM
1,3-Dichlorobenzene	ND	1.4	2.5		µg/L	5	9/17/2009 03:08 AM
1,3-Dichloropropane	ND	1.6	2.5		µg/L	5	9/17/2009 03:08 AM
1,4-Dichlorobenzene	ND	1.2	2.5		µg/L	5	9/17/2009 03:08 AM
2,2-Dichloropropane	ND	1.6	2.5		µg/L	5	9/17/2009 03:08 AM
2-Chlorotoluene	ND	1.5	2.5		µg/L	5	9/17/2009 03:08 AM
4-Chlorotoluene	ND	1.2	2.5		µg/L	5	9/17/2009 03:08 AM
4-Isopropyltoluene	ND	1.8	2.5		µg/L	5	9/17/2009 03:08 AM
Benzene	3.4	0.85	2.5		µg/L	5	9/17/2009 03:08 AM
Bromobenzene	ND	1.1	2.5		µg/L	5	9/17/2009 03:08 AM
Bromodichloromethane	ND	1.9	2.5		µg/L	5	9/17/2009 03:08 AM
Bromoform	ND	1.5	2.5		µg/L	5	9/17/2009 03:08 AM
Bromomethane	ND	1.6	2.5		µg/L	5	9/17/2009 03:08 AM
Carbon tetrachloride	6.4	1.9	2.5		µg/L	5	9/17/2009 03:08 AM
Chlorobenzene	ND	1.4	2.5		µg/L	5	9/17/2009 03:08 AM
Chloroethane	340	1.8	2.5		µg/L	5	9/17/2009 03:08 AM
Chloroform	ND	1.2	2.5		µg/L	5	9/17/2009 03:08 AM
Chloromethane	ND	1.6	2.5		µg/L	5	9/17/2009 03:08 AM
cis-1,2-Dichloroethene	ND	0.74	2.5		µg/L	5	9/17/2009 03:08 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified
E	Value above quantitation range
J	Analyte detected below quantitation limits
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *18-Sep-09*

CLIENT:	The Source Group Inc.	**Client Sample ID:**	MW-8
Lab Order:	107363	**Collection Date:**	9/10/2009 10:50:00 AM
Project:	AB&I Foundry, 01-ABI.001	**Matrix:**	GROUNDWATER
Lab ID:	107363-003A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS11_090916B** QC Batch: **A09VW167** PrepDate: Analyst: **SLL**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	1.4	2.5		µg/L	5	9/17/2009 03:08 AM
Dibromochloromethane	ND	2.0	2.5		µg/L	5	9/17/2009 03:08 AM
Dibromomethane	ND	0.93	2.5		µg/L	5	9/17/2009 03:08 AM
Dichlorodifluoromethane	ND	1.6	2.5		µg/L	5	9/17/2009 03:08 AM
Ethylbenzene	ND	1.1	2.5		µg/L	5	9/17/2009 03:08 AM
Hexachlorobutadiene	ND	1.4	2.5		µg/L	5	9/17/2009 03:08 AM
Isopropylbenzene	4.0	1.5	2.5		µg/L	5	9/17/2009 03:08 AM
m,p-Xylene	ND	2.5	5.0		µg/L	5	9/17/2009 03:08 AM
Methylene chloride	ND	5.0	5.0		µg/L	5	9/17/2009 03:08 AM
n-Butylbenzene	ND	1.5	2.5		µg/L	5	9/17/2009 03:08 AM
n-Propylbenzene	ND	1.8	2.5		µg/L	5	9/17/2009 03:08 AM
Naphthalene	ND	1.8	2.5		µg/L	5	9/17/2009 03:08 AM
o-Xylene	ND	1.3	2.5		µg/L	5	9/17/2009 03:08 AM
sec-Butylbenzene	ND	1.6	2.5		µg/L	5	9/17/2009 03:08 AM
Styrene	ND	1.9	2.5		µg/L	5	9/17/2009 03:08 AM
tert-Butylbenzene	ND	1.8	2.5		µg/L	5	9/17/2009 03:08 AM
Tetrachloroethene	ND	0.97	2.5		µg/L	5	9/17/2009 03:08 AM
Toluene	ND	1.1	2.5		µg/L	5	9/17/2009 03:08 AM
trans-1,2-Dichloroethene	ND	1.1	2.5		µg/L	5	9/17/2009 03:08 AM
Trichloroethene	ND	0.74	2.5		µg/L	5	9/17/2009 03:08 AM
Trichlorofluoromethane	ND	1.3	2.5		µg/L	5	9/17/2009 03:08 AM
Vinyl chloride	50	1.7	2.5		µg/L	5	9/17/2009 03:08 AM
Surr: 1,2-Dichloroethane-d4	76.9	0	70-130		%REC	5	9/17/2009 03:08 AM
Surr: 1,2-Dichloroethane-d4	79.0	0	70-130		%REC	50	9/17/2009 03:28 AM
Surr: 4-Bromofluorobenzene	85.6	0	70-130		%REC	5	9/17/2009 03:08 AM
Surr: 4-Bromofluorobenzene	85.5	0	70-130		%REC	50	9/17/2009 03:28 AM
Surr: Dibromofluoromethane	88.3	0	70-130		%REC	5	9/17/2009 03:08 AM
Surr: Dibromofluoromethane	89.0	0	70-130		%REC	50	9/17/2009 03:28 AM
Surr: Toluene-d8	93.6	0	70-130		%REC	50	9/17/2009 03:28 AM
Surr: Toluene-d8	92.3	0	70-130		%REC	5	9/17/2009 03:08 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *18-Sep-09*

CLIENT:	The Source Group Inc.	**Client Sample ID:**	Trip Blank
Lab Order:	107363	**Collection Date:**	
Project:	AB&I Foundry, 01-ABI.001	**Matrix:**	AQUEOUS
Lab ID:	107363-004A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS2_090915C** QC Batch: **Q09VW181** PrepDate: Analyst: **SLL**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.45	0.50		µg/L	1	9/16/2009 07:44 AM
1,1,1-Trichloroethane	ND	0.27	0.50		µg/L	1	9/16/2009 07:44 AM
1,1,2,2-Tetrachloroethane	ND	0.35	0.50		µg/L	1	9/16/2009 07:44 AM
1,1,2-Trichloroethane	ND	0.43	0.50		µg/L	1	9/16/2009 07:44 AM
1,1-Dichloroethane	ND	0.17	0.50		µg/L	1	9/16/2009 07:44 AM
1,1-Dichloroethene	ND	0.19	0.50		µg/L	1	9/16/2009 07:44 AM
1,1-Dichloropropene	ND	0.30	0.50		µg/L	1	9/16/2009 07:44 AM
1,2,3-Trichlorobenzene	ND	0.48	0.50		µg/L	1	9/16/2009 07:44 AM
1,2,3-Trichloropropane	ND	0.24	0.50		µg/L	1	9/16/2009 07:44 AM
1,2,4-Trichlorobenzene	ND	0.43	0.50		µg/L	1	9/16/2009 07:44 AM
1,2,4-Trimethylbenzene	ND	0.44	0.50		µg/L	1	9/16/2009 07:44 AM
1,2-Dibromo-3-chloropropane	ND	0.35	0.50		µg/L	1	9/16/2009 07:44 AM
1,2-Dibromoethane	ND	0.37	0.50		µg/L	1	9/16/2009 07:44 AM
1,2-Dichlorobenzene	ND	0.27	0.50		µg/L	1	9/16/2009 07:44 AM
1,2-Dichloroethane	ND	0.16	0.50		µg/L	1	9/16/2009 07:44 AM
1,2-Dichloropropane	ND	0.20	0.50		µg/L	1	9/16/2009 07:44 AM
1,3,5-Trimethylbenzene	ND	0.36	0.50		µg/L	1	9/16/2009 07:44 AM
1,3-Dichlorobenzene	ND	0.28	0.50		µg/L	1	9/16/2009 07:44 AM
1,3-Dichloropropane	ND	0.32	0.50		µg/L	1	9/16/2009 07:44 AM
1,4-Dichlorobenzene	ND	0.24	0.50		µg/L	1	9/16/2009 07:44 AM
2,2-Dichloropropane	ND	0.32	0.50		µg/L	1	9/16/2009 07:44 AM
2-Chlorotoluene	ND	0.31	0.50		µg/L	1	9/16/2009 07:44 AM
4-Chlorotoluene	ND	0.23	0.50		µg/L	1	9/16/2009 07:44 AM
4-Isopropyltoluene	ND	0.36	0.50		µg/L	1	9/16/2009 07:44 AM
Benzene	ND	0.17	0.50		µg/L	1	9/16/2009 07:44 AM
Bromobenzene	ND	0.21	0.50		µg/L	1	9/16/2009 07:44 AM
Bromodichloromethane	ND	0.39	0.50		µg/L	1	9/16/2009 07:44 AM
Bromoform	ND	0.30	0.50		µg/L	1	9/16/2009 07:44 AM
Bromomethane	ND	0.32	0.50		µg/L	1	9/16/2009 07:44 AM
Carbon tetrachloride	ND	0.38	0.50		µg/L	1	9/16/2009 07:44 AM
Chlorobenzene	ND	0.28	0.50		µg/L	1	9/16/2009 07:44 AM
Chloroethane	ND	0.35	0.50		µg/L	1	9/16/2009 07:44 AM
Chloroform	ND	0.23	0.50		µg/L	1	9/16/2009 07:44 AM
Chloromethane	ND	0.32	0.50		µg/L	1	9/16/2009 07:44 AM
cis-1,2-Dichloroethene	ND	0.15	0.50		µg/L	1	9/16/2009 07:44 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified
E	Value above quantitation range
J	Analyte detected below quantitation limits
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *18-Sep-09*

CLIENT:	The Source Group Inc.	**Client Sample ID:**	Trip Blank
Lab Order:	107363	**Collection Date:**	
Project:	AB&I Foundry, 01-ABI.001	**Matrix:**	AQUEOUS
Lab ID:	107363-004A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS2_090915C** QC Batch: **Q09VW181** PrepDate: Analyst: **SLL**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.29	0.50		µg/L	1	9/16/2009 07:44 AM
Dibromochloromethane	ND	0.40	0.50		µg/L	1	9/16/2009 07:44 AM
Dibromomethane	ND	0.19	0.50		µg/L	1	9/16/2009 07:44 AM
Dichlorodifluoromethane	ND	0.33	0.50		µg/L	1	9/16/2009 07:44 AM
Ethylbenzene	ND	0.22	0.50		µg/L	1	9/16/2009 07:44 AM
Hexachlorobutadiene	ND	0.28	0.50		µg/L	1	9/16/2009 07:44 AM
Isopropylbenzene	ND	0.30	0.50		µg/L	1	9/16/2009 07:44 AM
m,p-Xylene	ND	0.49	1.0		µg/L	1	9/16/2009 07:44 AM
Methylene chloride	ND	1.0	1.0		µg/L	1	9/16/2009 07:44 AM
n-Butylbenzene	ND	0.30	0.50		µg/L	1	9/16/2009 07:44 AM
n-Propylbenzene	ND	0.36	0.50		µg/L	1	9/16/2009 07:44 AM
Naphthalene	ND	0.35	0.50		µg/L	1	9/16/2009 07:44 AM
o-Xylene	ND	0.27	0.50		µg/L	1	9/16/2009 07:44 AM
sec-Butylbenzene	ND	0.33	0.50		µg/L	1	9/16/2009 07:44 AM
Styrene	ND	0.38	0.50		µg/L	1	9/16/2009 07:44 AM
tert-Butylbenzene	ND	0.35	0.50		µg/L	1	9/16/2009 07:44 AM
Tetrachloroethene	ND	0.19	0.50		µg/L	1	9/16/2009 07:44 AM
Toluene	ND	0.22	0.50		µg/L	1	9/16/2009 07:44 AM
trans-1,2-Dichloroethene	ND	0.22	0.50		µg/L	1	9/16/2009 07:44 AM
Trichloroethene	ND	0.15	0.50		µg/L	1	9/16/2009 07:44 AM
Trichlorofluoromethane	ND	0.26	0.50		µg/L	1	9/16/2009 07:44 AM
Vinyl chloride	ND	0.34	0.50		µg/L	1	9/16/2009 07:44 AM
Surr: 1,2-Dichloroethane-d4	111	0	70-130		%REC	1	9/16/2009 07:44 AM
Surr: 4-Bromofluorobenzene	94.6	0	70-130		%REC	1	9/16/2009 07:44 AM
Surr: Dibromofluoromethane	99.7	0	70-130		%REC	1	9/16/2009 07:44 AM
Surr: Toluene-d8	90.2	0	70-130		%REC	1	9/16/2009 07:44 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *18-Sep-09*

CLIENT:	The Source Group Inc.	**Client Sample ID:**	MW-9
Lab Order:	107363	**Collection Date:**	9/10/2009 8:55:00 AM
Project:	AB&I Foundry, 01-ABI.001	**Matrix:**	GROUNDWATER
Lab ID:	107363-001B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
GASOLINE RANGE ORGANICS BY GC/FID						
		EPA 8015B(M)				
RunID: GC6_090914B	QC Batch: I09VW0165			PrepDate:		Analyst: **BD**
GRO	3.1	0.050		mg/L	1	9/15/2009 01:35 AM
Surr: Bromofluorobenzene (FID)	103	71-130		%REC	1	9/15/2009 01:35 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	The Source Group Inc.	**Client Sample ID:**	MW-9
Lab Order:	107363	**Collection Date:**	9/10/2009 8:55:00 AM
Project:	AB&I Foundry, 01-ABI.001	**Matrix:**	GROUNDWATER
Lab ID:	107363-001C		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SILICA GEL CLEANUP DRO BY GC-FID						
EPA 3510C				**EPA 8015B**		
RunID: GC16_090917D	QC Batch: 58179			PrepDate: 9/15/2009		Analyst: **CBR**
DRO	0.46	0.050		mg/L	1	9/17/2009 11:03 PM
Surr: p-Terphenyl	79.1	35-131		%REC	1	9/17/2009 11:03 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *18-Sep-09*

CLIENT:	The Source Group Inc.	**Client Sample ID:**	MW-3
Lab Order:	107363	**Collection Date:**	9/10/2009 9:55:00 AM
Project:	AB&I Foundry, 01-ABI.001	**Matrix:**	GROUNDWATER
Lab ID:	107363-002B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL ORGANIC CARBON						
			SM5310B			
RunID: TOC1_090914A	QC Batch: R112849			PrepDate:		Analyst: **JSD**
Organic Carbon, Total	170	6.0		mg/L	2	9/14/2009 11:48 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *18-Sep-09*

CLIENT:	The Source Group Inc.	**Client Sample ID:**	MW-3
Lab Order:	107363	**Collection Date:**	9/10/2009 9:55:00 AM
Project:	AB&I Foundry, 01-ABI.001	**Matrix:**	GROUNDWATER
Lab ID:	107363-002C		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED GASES IN WATER						
			RSK175			
RunID: GC18_090917A	QC Batch: Z09A001			PrepDate:		Analyst: **BB**
Ethane	4.1	2.0		ug/L	1	9/17/2009 11:25 AM
Ethylene	41	3.0		ug/L	1	9/17/2009 11:25 AM
Methane	6000	10		ug/L	10	9/17/2009 11:50 AM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *18-Sep-09*

CLIENT:	The Source Group Inc.	**Client Sample ID:**	MW-8
Lab Order:	107363	**Collection Date:**	9/10/2009 10:50:00 AM
Project:	AB&I Foundry, 01-ABI.001	**Matrix:**	GROUNDWATER
Lab ID:	107363-003B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL ORGANIC CARBON						
			SM5310B			
RunID: TOC1_090914A	QC Batch: R112849			PrepDate:		Analyst: **JSD**
Organic Carbon, Total	160	6.0		mg/L	2	9/14/2009 12:08 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *18-Sep-09*

CLIENT:	The Source Group Inc.	**Client Sample ID:**	MW-8
Lab Order:	107363	**Collection Date:**	9/10/2009 10:50:00 AM
Project:	AB&I Foundry, 01-ABI.001	**Matrix:**	GROUNDWATER
Lab ID:	107363-003C		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED GASES IN WATER						
			RSK175			
RunID: GC18_090917A	QC Batch: Z09A001			PrepDate:		Analyst: **BB**
Ethane	4.6	2.0		ug/L	1	9/17/2009 12:03 PM
Ethylene	ND	3.0		ug/L	1	9/17/2009 12:03 PM
Methane	370	1.0		ug/L	1	9/17/2009 12:03 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: The Source Group Inc.
Work Order: 107363
Project: AB&I Foundry, 01-ABI.001

ANALYTICAL QC SUMMARY REPORT

TestCode: 415.1_5310B_W

Sample ID: **MB-R112849** SampType: **MBLK** TestCode: **415.1_5310B** Units: **mg/L** Prep Date: RunNo: **112849**
Client ID: **PBW** Batch ID: **R112849** TestNo: **SM5310B** Analysis Date: **9/14/2009** SeqNo: **1783127**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Total	ND	3.0									

Sample ID: **LCS-R112849** SampType: **LCS** TestCode: **415.1_5310B** Units: **mg/L** Prep Date: RunNo: **112849**
Client ID: **LCSW** Batch ID: **R112849** TestNo: **SM5310B** Analysis Date: **9/14/2009** SeqNo: **1783128**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Total	20.530	3.0	20.00	0	103	80	120				

Sample ID: **107363-003B-MS** SampType: **MS** TestCode: **415.1_5310B** Units: **mg/L** Prep Date: RunNo: **112849**
Client ID: **MW-8** Batch ID: **R112849** TestNo: **SM5310B** Analysis Date: **9/14/2009** SeqNo: **1783131**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Total	192.000	6.0	20.00	160.6	157	70	130				S

Sample ID: **107363-003B-MSD** SampType: **MSD** TestCode: **415.1_5310B** Units: **mg/L** Prep Date: RunNo: **112849**
Client ID: **MW-8** Batch ID: **R112849** TestNo: **SM5310B** Analysis Date: **9/14/2009** SeqNo: **1783132**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Total	182.380	6.0	20.00	160.6	109	70	130	192.0	5.14	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: The Source Group Inc.
Work Order: 107363
Project: AB&I Foundry, 01-ABI.001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_DSL_LLSGT

Sample ID: **MB-58179** SampType: **MBLK** TestCode: **8015_W_DSL** Units: **mg/L** Prep Date: **9/15/2009** RunNo: **113052**
Client ID: **PBW** Batch ID: **58179** TestNo: **EPA 8015B** **EPA 3510C** Analysis Date: **9/17/2009** SeqNo: **1787043**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	ND	0.050									
Surr: p-Terphenyl	0.023		0.08000		28.2	35	131				S

Sample ID: **LCS-58179** SampType: **LCS** TestCode: **8015_W_DSL** Units: **mg/L** Prep Date: **9/15/2009** RunNo: **113052**
Client ID: **LCSW** Batch ID: **58179** TestNo: **EPA 8015B** **EPA 3510C** Analysis Date: **9/17/2009** SeqNo: **1787044**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	1.013	0.050	1.000	0	101	42	118				
Surr: p-Terphenyl	0.036		0.08000		45.1	35	131				

Sample ID: **MB-58179MS** SampType: **MS** TestCode: **8015_W_DSL** Units: **mg/L** Prep Date: **9/15/2009** RunNo: **113052**
Client ID: **ZZZZZZ** Batch ID: **58179** TestNo: **EPA 8015B** **EPA 3510C** Analysis Date: **9/17/2009** SeqNo: **1787045**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	0.824	0.050	1.000	0	82.4	42	118				
Surr: p-Terphenyl	0.028		0.08000		34.8	35	131				S

Sample ID: **MB-58179MSD** SampType: **MSD** TestCode: **8015_W_DSL** Units: **mg/L** Prep Date: **9/15/2009** RunNo: **113052**
Client ID: **ZZZZZZ** Batch ID: **58179** TestNo: **EPA 8015B** **EPA 3510C** Analysis Date: **9/17/2009** SeqNo: **1787046**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	0.501	0.050	1.000	0	50.1	42	118	0.8241	48.7	20	R
Surr: p-Terphenyl	0.017		0.08000		20.8	35	131		0	0	S

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: The Source Group Inc.
Work Order: 107363
Project: AB&I Foundry, 01-ABI.001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_GP LL

Sample ID: **I090914LCS4** SampType: **LCS** TestCode: **8015_W_GP** Units: **mg/L** Prep Date: RunNo: **112906**
Client ID: **LCSW** Batch ID: **I09VW0165** TestNo: **EPA 8015B(M** Analysis Date: **9/14/2009** SeqNo: **1784533**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	0.937	0.050	1.000	0	93.7	69	125				
Surr: Bromofluorobenzene (FID)	95.455		100.0		95.5	71	130				

Sample ID: **I090914MB3MS** SampType: **MS** TestCode: **8015_W_GP** Units: **mg/L** Prep Date: RunNo: **112906**
Client ID: **ZZZZZZ** Batch ID: **I09VW0165** TestNo: **EPA 8015B(M** Analysis Date: **9/14/2009** SeqNo: **1784534**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	0.951	0.050	1.000	0	95.1	69	125				
Surr: Bromofluorobenzene (FID)	96.693		100.0		96.7	71	130				

Sample ID: **I090914MB3MSD** SampType: **MSD** TestCode: **8015_W_GP** Units: **mg/L** Prep Date: RunNo: **112906**
Client ID: **ZZZZZZ** Batch ID: **I09VW0165** TestNo: **EPA 8015B(M** Analysis Date: **9/14/2009** SeqNo: **1784535**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	0.839	0.050	1.000	0	83.9	69	125	0.9510	12.5	20	
Surr: Bromofluorobenzene (FID)	99.259		100.0		99.3	71	130		0	0	

Sample ID: **I090914MB3** SampType: **MBLK** TestCode: **8015_W_GP** Units: **mg/L** Prep Date: RunNo: **112906**
Client ID: **PBW** Batch ID: **I09VW0165** TestNo: **EPA 8015B(M** Analysis Date: **9/15/2009** SeqNo: **1784536**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	ND	0.050									
Surr: Bromofluorobenzene (FID)	94.038		100.0		94.0	71	130				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: The Source Group Inc.
Work Order: 107363
Project: AB&I Foundry, 01-ABI.001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A090916LCS2** SampType: **LCS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **113001**
Client ID: **LCSW** Batch ID: **A09VW167** TestNo: **EPA 8260B** Analysis Date: **9/16/2009** SeqNo: **1786222**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	20.290	0.50	20.00	0	101	70	130				
Benzene	37.250	0.50	40.00	0	93.1	70	130				
Chlorobenzene	20.030	0.50	20.00	0	100	70	130				
MTBE	18.980	0.50	20.00	0	94.9	70	130				
Toluene	38.150	0.50	40.00	0	95.4	70	130				
Trichloroethene	20.210	0.50	20.00	0	101	70	130				
Surr: 1,2-Dichloroethane-d4	20.500		25.00		82.0	70	130				
Surr: 4-Bromofluorobenzene	22.050		25.00		88.2	70	130				
Surr: Dibromofluoromethane	21.940		25.00		87.8	70	130				
Surr: Toluene-d8	23.520		25.00		94.1	70	130				

Sample ID: **A090916MB4MS** SampType: **MS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **113001**
Client ID: **ZZZZZZ** Batch ID: **A09VW167** TestNo: **EPA 8260B** Analysis Date: **9/16/2009** SeqNo: **1786223**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	20.220	0.50	20.00	0	101	70	130				
Benzene	37.320	0.50	40.00	0	93.3	70	130				
Chlorobenzene	20.290	0.50	20.00	0	101	70	130				
Toluene	38.170	0.50	40.00	0	95.4	70	130				
Trichloroethene	20.340	0.50	20.00	0	102	70	130				
Surr: 1,2-Dichloroethane-d4	20.780		25.00		83.1	70	130				
Surr: 4-Bromofluorobenzene	22.200		25.00		88.8	70	130				
Surr: Dibromofluoromethane	22.230		25.00		88.9	70	130				
Surr: Toluene-d8	23.380		25.00		93.5	70	130				

Sample ID: **A090916MB4MSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **113001**
Client ID: **ZZZZZZ** Batch ID: **A09VW167** TestNo: **EPA 8260B** Analysis Date: **9/17/2009** SeqNo: **1786224**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	16.850	0.50	20.00	0	84.2	70	130	20.22	18.2	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: The Source Group Inc.
Work Order: 107363
Project: AB&I Foundry, 01-ABI.001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A090916MB4MSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **113001**
Client ID: **ZZZZZZ** Batch ID: **A09VW167** TestNo: **EPA 8260B** Analysis Date: **9/17/2009** SeqNo: **1786224**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	36.690	0.50	40.00	0	91.7	70	130	37.32	1.70	20	
Chlorobenzene	20.120	0.50	20.00	0	101	70	130	20.29	0.841	20	
Toluene	37.380	0.50	40.00	0	93.5	70	130	38.17	2.09	20	
Trichloroethene	20.190	0.50	20.00	0	101	70	130	20.34	0.740	20	
Surr: 1,2-Dichloroethane-d4	20.440		25.00		81.8	70	130		0	20	
Surr: 4-Bromofluorobenzene	22.300		25.00		89.2	70	130		0	20	
Surr: Dibromofluoromethane	22.190		25.00		88.8	70	130		0	20	
Surr: Toluene-d8	23.440		25.00		93.8	70	130		0	20	

Sample ID: **A090916MB4** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **113001**
Client ID: **PBW** Batch ID: **A09VW167** TestNo: **EPA 8260B** Analysis Date: **9/17/2009** SeqNo: **1786225**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	0.50									
1,1,1-Trichloroethane	ND	0.50									
1,1,2,2-Tetrachloroethane	ND	0.50									
1,1,2-Trichloroethane	ND	0.50									
1,1-Dichloroethane	ND	0.50									
1,1-Dichloroethene	ND	0.50									
1,1-Dichloropropene	ND	0.50									
1,2,3-Trichlorobenzene	ND	0.50									
1,2,3-Trichloropropane	ND	0.50									
1,2,4-Trichlorobenzene	ND	0.50									
1,2,4-Trimethylbenzene	ND	0.50									
1,2-Dibromo-3-chloropropane	ND	0.50									
1,2-Dibromoethane	ND	0.50									
1,2-Dichlorobenzene	ND	0.50									
1,2-Dichloroethane	ND	0.50									
1,2-Dichloropropane	ND	0.50									
1,3,5-Trimethylbenzene	ND	0.50									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: The Source Group Inc.
Work Order: 107363
Project: AB&I Foundry, 01-ABI.001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A090916MB4** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **113001**
Client ID: **PBW** Batch ID: **A09VW167** TestNo: **EPA 8260B** Analysis Date: **9/17/2009** SeqNo: **1786225**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Dichlorobenzene	ND	0.50									
1,3-Dichloropropane	ND	0.50									
1,4-Dichlorobenzene	ND	0.50									
2,2-Dichloropropane	ND	0.50									
2-Chlorotoluene	ND	0.50									
4-Chlorotoluene	ND	0.50									
4-Isopropyltoluene	ND	0.50									
Benzene	ND	0.50									
Bromobenzene	ND	0.50									
Bromodichloromethane	ND	0.50									
Bromoform	ND	0.50									
Bromomethane	ND	0.50									
Carbon tetrachloride	ND	0.50									
Chlorobenzene	ND	0.50									
Chloroethane	ND	0.50									
Chloroform	ND	0.50									
Chloromethane	ND	0.50									
cis-1,2-Dichloroethene	ND	0.50									
cis-1,3-Dichloropropene	ND	0.50									
Dibromochloromethane	ND	0.50									
Dibromomethane	ND	0.50									
Dichlorodifluoromethane	ND	0.50									
Ethylbenzene	ND	0.50									
Hexachlorobutadiene	ND	0.50									
Isopropylbenzene	ND	0.50									
m,p-Xylene	ND	1.0									
Methylene chloride	ND	1.0									
n-Butylbenzene	ND	0.50									
n-Propylbenzene	ND	0.50									
Naphthalene	ND	0.50									

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: The Source Group Inc.
Work Order: 107363
Project: AB&I Foundry, 01-ABI.001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A090916MB4** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **113001**
Client ID: **PBW** Batch ID: **A09VW167** TestNo: **EPA 8260B** Analysis Date: **9/17/2009** SeqNo: **1786225**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
o-Xylene	ND	0.50									
sec-Butylbenzene	ND	0.50									
Styrene	ND	0.50									
tert-Butylbenzene	ND	0.50									
Tetrachloroethene	ND	0.50									
Toluene	ND	0.50									
trans-1,2-Dichloroethene	ND	0.50									
Trichloroethene	ND	0.50									
Trichlorofluoromethane	ND	0.50									
Vinyl chloride	ND	0.50									
Surr: 1,2-Dichloroethane-d4	19.460		25.00		77.8	70	130				
Surr: 4-Bromofluorobenzene	21.450		25.00		85.8	70	130				
Surr: Dibromofluoromethane	21.430		25.00		85.7	70	130				
Surr: Toluene-d8	23.300		25.00		93.2	70	130				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: The Source Group Inc.
Work Order: 107363
Project: AB&I Foundry, 01-ABI.001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **Q090915LCS3** SampType: **LCS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **112992**
Client ID: **LCSW** Batch ID: **Q09VW181** TestNo: **EPA 8260B** Analysis Date: **9/16/2009** SeqNo: **1785865**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	19.300	0.50	20.00	0	96.5	70	130				
Benzene	40.000	0.50	40.00	0	100	70	130				
Chlorobenzene	20.400	0.50	20.00	0	102	70	130				
MTBE	20.520	0.50	20.00	0	103	70	130				
Toluene	42.800	0.50	40.00	0	107	70	130				
Trichloroethene	20.010	0.50	20.00	0	100	70	130				
Surr: 1,2-Dichloroethane-d4	24.020		25.00		96.1	70	130				
Surr: 4-Bromofluorobenzene	25.130		25.00		101	70	130				
Surr: Dibromofluoromethane	23.210		25.00		92.8	70	130				
Surr: Toluene-d8	24.400		25.00		97.6	70	130				

Sample ID: **Q090915MB6MS** SampType: **MS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **112992**
Client ID: **ZZZZZZ** Batch ID: **Q09VW181** TestNo: **EPA 8260B** Analysis Date: **9/16/2009** SeqNo: **1785866**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	20.540	0.50	20.00	0	103	70	130				
Benzene	41.160	0.50	40.00	0	103	70	130				
Chlorobenzene	20.190	0.50	20.00	0	101	70	130				
Toluene	42.580	0.50	40.00	0	106	70	130				
Trichloroethene	19.920	0.50	20.00	0	99.6	70	130				
Surr: 1,2-Dichloroethane-d4	23.610		25.00		94.4	70	130				
Surr: 4-Bromofluorobenzene	24.900		25.00		99.6	70	130				
Surr: Dibromofluoromethane	22.310		25.00		89.2	70	130				
Surr: Toluene-d8	24.230		25.00		96.9	70	130				

Sample ID: **Q090915MB6MSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **112992**
Client ID: **ZZZZZZ** Batch ID: **Q09VW181** TestNo: **EPA 8260B** Analysis Date: **9/16/2009** SeqNo: **1785867**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	21.190	0.50	20.00	0	106	70	130	20.54	3.12	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: The Source Group Inc.
Work Order: 107363
Project: AB&I Foundry, 01-ABI.001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **Q090915MB6MSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **112992**
Client ID: **ZZZZZZ** Batch ID: **Q09VW181** TestNo: **EPA 8260B** Analysis Date: **9/16/2009** SeqNo: **1785867**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	42.150	0.50	40.00	0	105	70	130	41.16	2.38	20	
Chlorobenzene	20.420	0.50	20.00	0	102	70	130	20.19	1.13	20	
Toluene	43.050	0.50	40.00	0	108	70	130	42.58	1.10	20	
Trichloroethene	20.130	0.50	20.00	0	101	70	130	19.92	1.05	20	
Surr: 1,2-Dichloroethane-d4	23.040		25.00		92.2	70	130		0	20	
Surr: 4-Bromofluorobenzene	23.950		25.00		95.8	70	130		0	20	
Surr: Dibromofluoromethane	22.150		25.00		88.6	70	130		0	20	
Surr: Toluene-d8	23.300		25.00		93.2	70	130		0	20	

Sample ID: **Q090915MB6** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **112992**
Client ID: **PBW** Batch ID: **Q09VW181** TestNo: **EPA 8260B** Analysis Date: **9/16/2009** SeqNo: **1785868**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	0.50									
1,1,1-Trichloroethane	ND	0.50									
1,1,2,2-Tetrachloroethane	ND	0.50									
1,1,2-Trichloroethane	ND	0.50									
1,1-Dichloroethane	ND	0.50									
1,1-Dichloroethene	ND	0.50									
1,1-Dichloropropene	ND	0.50									
1,2,3-Trichlorobenzene	ND	0.50									
1,2,3-Trichloropropane	ND	0.50									
1,2,4-Trichlorobenzene	ND	0.50									
1,2,4-Trimethylbenzene	ND	0.50									
1,2-Dibromo-3-chloropropane	ND	0.50									
1,2-Dibromoethane	ND	0.50									
1,2-Dichlorobenzene	ND	0.50									
1,2-Dichloroethane	ND	0.50									
1,2-Dichloropropane	ND	0.50									
1,3,5-Trimethylbenzene	ND	0.50									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: The Source Group Inc.
Work Order: 107363
Project: AB&I Foundry, 01-ABI.001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **Q090915MB6** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **112992**
Client ID: **PBW** Batch ID: **Q09VW181** TestNo: **EPA 8260B** Analysis Date: **9/16/2009** SeqNo: **1785868**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Dichlorobenzene	ND	0.50									
1,3-Dichloropropane	ND	0.50									
1,4-Dichlorobenzene	ND	0.50									
2,2-Dichloropropane	ND	0.50									
2-Chlorotoluene	ND	0.50									
4-Chlorotoluene	ND	0.50									
4-Isopropyltoluene	ND	0.50									
Benzene	ND	0.50									
Bromobenzene	ND	0.50									
Bromodichloromethane	ND	0.50									
Bromoform	ND	0.50									
Bromomethane	ND	0.50									
Carbon tetrachloride	ND	0.50									
Chlorobenzene	ND	0.50									
Chloroethane	ND	0.50									
Chloroform	ND	0.50									
Chloromethane	ND	0.50									
cis-1,2-Dichloroethene	ND	0.50									
cis-1,3-Dichloropropene	ND	0.50									
Dibromochloromethane	ND	0.50									
Dibromomethane	ND	0.50									
Dichlorodifluoromethane	ND	0.50									
Ethylbenzene	ND	0.50									
Hexachlorobutadiene	ND	0.50									
Isopropylbenzene	ND	0.50									
m,p-Xylene	ND	1.0									
Methylene chloride	ND	1.0									
n-Butylbenzene	ND	0.50									
n-Propylbenzene	ND	0.50									
Naphthalene	ND	0.50									

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: The Source Group Inc.
Work Order: 107363
Project: AB&I Foundry, 01-ABI.001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **Q090915MB6** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **112992**
Client ID: **PBW** Batch ID: **Q09VW181** TestNo: **EPA 8260B** Analysis Date: **9/16/2009** SeqNo: **1785868**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
o-Xylene	ND	0.50									
sec-Butylbenzene	ND	0.50									
Styrene	ND	0.50									
tert-Butylbenzene	ND	0.50									
Tetrachloroethene	ND	0.50									
Toluene	ND	0.50									
trans-1,2-Dichloroethene	ND	0.50									
Trichloroethene	ND	0.50									
Trichlorofluoromethane	ND	0.50									
Vinyl chloride	ND	0.50									
Surr: 1,2-Dichloroethane-d4	26.400		25.00		106	70	130				
Surr: 4-Bromofluorobenzene	23.590		25.00		94.4	70	130				
Surr: Dibromofluoromethane	25.050		25.00		100	70	130				
Surr: Toluene-d8	22.960		25.00		91.8	70	130				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: The Source Group Inc.
Work Order: 107363
Project: AB&I Foundry, 01-ABI.001

ANALYTICAL QC SUMMARY REPORT

TestCode: RSK175_ATL

Sample ID: **MB-Z09001** SampType: **MBLK** TestCode: **RSK175_ATL** Units: **ug/L** Prep Date: RunNo: **113015**
Client ID: **PBW** Batch ID: **Z09A001** TestNo: **RSK175** Analysis Date: **9/17/2009** SeqNo: **1786875**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethane	0.940	2.0									
Ethylene	1.130	3.0									
Methane	0.490	1.0									

Sample ID: **LCS-Z09A001** SampType: **LCS** TestCode: **RSK175_ATL** Units: **ug/L** Prep Date: RunNo: **113015**
Client ID: **LCSW** Batch ID: **Z09A001** TestNo: **RSK175** Analysis Date: **9/17/2009** SeqNo: **1786876**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethane	825.060	2.0	851.0	0.9400	96.8	70	130				
Ethylene	1072.930	3.0	1050	1.130	102	70	130				
Methane	469.000	1.0	486.0	0.4900	96.4	70	130				

Sample ID: **LCSD-Z09A001** SampType: **LCSD** TestCode: **RSK175_ATL** Units: **ug/L** Prep Date: RunNo: **113015**
Client ID: **LCSS02** Batch ID: **Z09A001** TestNo: **RSK175** Analysis Date: **9/17/2009** SeqNo: **1786877**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethane	818.190	2.0	851.0	0.9400	96.0	70	130	825.1	0.836	20	
Ethylene	1066.340	3.0	1050	1.130	101	70	130	1073	0.616	20	
Methane	463.030	1.0	486.0	0.4900	95.2	70	130	469.0	1.28	20	

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

CHAIN OF CUSTODY RECORD

Pg 1 of 1

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755
(562) 989-4045 • Fax (562) 989-4040

FOR LABORATORY USE ONLY:

P.O.#: _____
Logged By: _____ Date: 9/11/09

Method of Transport: Client ☐ ATL ☐ CA OverN ☑ FEDEX ☐ Other: _____

Sample Condition Upon Receipt
1. CHILLED 4.0 Y ☑ N ☐ 4. CUSTODY SEAL Y ☐ N ☑
2. HEADSPACE (VOA) Y ☐ N ☑ 5. # OF SPLS MATCH COC Y ☑ N ☐
3. CONTAINER INTACT Y ☑ N ☐ 6. PRESERVED Y ☐ N ☑

Client: The Source Group, Inc.	Address: 3451-C Vincent Rd.		TEL: (925) 944-2856
Attn: Kent Reynolds	City Pleasant Hill	State CA Zip Code 94523	FAX: (925) 944-2859

Project Name: AB+I Foundry Project #: 01-ABI.001 Sampler: (Printed Name) Nathan Clifton (Signature)

Relinquished by: (Signature and Printed Name) Nathan Clifton	Date: 9/10/09	Time: 1330	Received by: (Signature and Printed Name)	Date: 9/11/09	Time: 9:00
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

I hereby authorize ATL to perform the work indicated below:
Project Mgr./Submitter: Nathan Clifton 9/10/09 (Print Name / Date)
Signature

Send Report To:
Attn: Kent Reynolds
Co: The Source Group
Address 3451-C Vincent Rd.
City Pleasant Hill State CA Zip 94523

Bill To:
Attn: _____
Co: SAME
Address _____
City _____ State _____ Zip _____

Special Instructions/Comments:
-0.5 ppb reporting limit for vinyl chloride
GeoTracker ID: T0600100065
please include EDD + EDF reports

Sample/Records - Archival & Disposal
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.

Storage Fees (applies when storage is requested):
- Sample : $2.00 / sample / mo (after 45 days)
- Records : $1.00 / ATL workorder / mo (after 1 year)

ITEM	LAB USE ONLY: Batch #: / Lab No.	Sample Description: Sample I.D. / Location	Date	Time	8081A (Pesticides)	8082 (PCB)	8260B (Volatiles)	8270C (BNA)	6010B (Total Metal)	8015B (GRO) / 8020 (BTEX)	8015B (DRO)	8021 (BTEX)	TITLE 22 / CAM 17 (6010 / 7000)	Silica Gel RSK-175 Methane, Ethane, Ethene TOC	SOLID	SOIL	DRINKING WATER	GROUND WATER	WASTEWATER	STORMWATER	AQUEOUS	TAT	Container(s) #	Container(s) Type	PRESERVATION	REMARKS
	1073C3 - 01	MW-9	9/10/09	855		X			X	X			X	X				X					E	7			
	- 02	MW-3	9/10/09	955		X								X	X			X					E	9	VOA	G/A	
	- 03	MW-8	9/10	1050		X								X	X			X					E	9	VOA	G/A	
	- 04	Trip Blank		—		X															X		E	1	VOA	G/A	

- TAT starts 8 a.m. following day if samples received after 3 p.m.

TAT: A= Overnight ≤ 24 hr; B= Emergency Next workday; C= Critical 2 Workdays; D= Urgent 3 Workdays; E= Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Preservatives: H=HCl N=HNO_3 S=H_2SO_4 C=4°C Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$

QA/QC: RTNE ☐ CT ☐ SWRCB ☐ Logcode ____ OTHER ____

DISTRIBUTION: **White** with report, **Yellow** to folder, **Pink** to submitter.

APPENDIX C

HISTORICAL GROUNDWATER DATA

Table C-1
Historical Water Level
AB&I Foundry
7825 San Leandro Street
Oakland, California

Well ID	Date	Groundwater Elevation (ft, msl)
MW-1	03/10/93	2.29
	08/20/93	2.05
	12/03/93	2.04
	03/04/94	1.29
	06/10/94	2.55
	09/09/94	2.14
	12/16/95	3.65
	07/14/06	3.43
	08/17/06	1.50
	10/24/07	4.14
	02/21/08	4.14
	06/12/08	3.68
	10/02/08	3.00
	12/12/08	3.28
	05/21/09	1.78
MW-2	03/10/93	3.41
	08/20/93	2.30
	12/03/93	2.39
	03/04/94	3.14
	06/10/94	2.73
	09/09/94	2.38
	03/17/95	3.79
	06/23/95	3.05
	09/06/95	2.80
	12/16/95	3.30
	01/18/96	3.56
	04/26/96	3.56
	02/03/97	2.85
	10/24/07	Removed
MW-2R	08/18/06	-2.50
	10/24/07	3.70
	02/21/08	3.70
	06/12/08	3.20
	10/02/08	3.02
	12/12/08	3.42
	05/21/09	1.73
MW-3	03/10/93	2.53
	08/20/93	1.55
	12/03/93	1.72
	03/04/94	2.54
	06/10/94	2.12
	09/09/94	1.74
	12/16/95	2.69
	03/17/95	3.05
	06/23/95	2.31
	09/06/95	1.85
	01/18/96	2.46
	04/26/96	2.46
	02/03/97	2.86
	07/14/06	2.77
	08/17/06	1.13
	10/24/07	2.71
	02/21/08	2.71
	06/12/08	2.30
	10/02/08	2.30
	12/11/08	3.07
	05/21/09	1.32

Table C-1
Historical Water Level
AB&I Foundry
7825 San Leandro Street
Oakland, California

Well ID	Date	Groundwater Elevation (ft, msl)
MW-4	03/10/93	3.45
	08/20/93	1.29
	12/03/93	1.47
	03/04/94	2.25
	06/10/94	1.78
	09/09/94	1.43
	03/17/95	2.93
	06/23/95	2.04
	09/06/95	1.60
	12/16/95	2.48
	01/18/96	2.37
	04/26/96	2.37
	02/03/97	2.69
	07/14/06	1.76
	08/18/06	NS
	10/24/07	3.77
	02/21/08	3.77
	06/12/08	3.12
	10/02/08	3.01
	12/11/08	3.51
	05/21/09	1.81
MW-5	08/17/06	1.31
	10/24/07	2.87
	02/21/08	2.87
	06/12/08	2.46
	10/02/08	2.47
	12/11/08	3.17
	05/21/09	1.40
MW-6	08/17/06	0.26
	10/24/07	2.14
	02/21/08	2.14
	06/12/08	1.52
	10/02/08	1.58
	12/11/08	2.27
	05/21/09	0.60
MW-7	08/17/06	0.60
	10/24/07	4.80
	02/21/08	4.80
	06/12/08	3.84
	10/02/08	3.52
	12/12/08	3.61
	05/21/09	2.39
MW-8	08/17/06	1.36
	10/24/07	3.28
	02/21/08	3.28
	06/12/08	2.77
	10/02/08	2.66
	12/11/08	3.27
	05/21/09	1.60
MW-9	08/23/06	1.86
	10/24/07	4.21
	02/21/08	4.21
	06/12/08	3.58
	10/02/08	3.39
	12/11/08	3.65
	05/21/09	2.01

Notes:
-Wells resurveyed by Virgil Chavez Land Surveying on May 2, 2008

Table C-1
Historical Water Level
AB&I Foundry
7825 San Leandro Street
Oakland, California

Well ID	Date	Groundwater Elevation (ft, msl)
NS	-not sampled	
msl	-mean sea level	
ft	-feet	

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
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	--	--	490	--	--	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	--	--	160	--	<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
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	--	--	--	--	--	--

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
	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
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

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
	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
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	--	--	--	--	62	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
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

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
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
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
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
	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
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	89.0	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	170.0	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

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
	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
	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

Notes:
-Historical data for samping events conducted prior to October 2007 obtained from Table 2, Preliminary Groundater Investigation Report, AB&I Foundry, BSK Associates, Inc., dated June 11, 2007.
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

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
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	--
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	390.0	<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	--
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

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
	10/24/07	<10	<5.0	<10	180	680	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	--
	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	--
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	--
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	--
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	--
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	<10	<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	--
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	1600	1600	<0.5	<25	1700	<25	<25	<50	--
	02/21/08	<50	<25	290	1800	2300	<25	<25	2500	<25	<25	<50	--
	06/12/08	<10	<10	300	1400	3200	<10	<10	2700	19	<10	<10	--
	10/02/08	<5.0	<5.0	320	1100	1900	<5	<5	1700	16	5.2	<5.0	--
	12/11/08	<5.0	<5.0	320	1300	2000	<5.0	<5.0	2000	15	6.2	<5.0	--

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
	05/21/09	<5.0	--	320	1500	1900	<5.0	<5.0	1900	16	5.3	<5.0	--
	07/01/09	<2.5	--	350	1200	1100	<2.5	<2.5	960	11	<2.5	<2.5	--
	08/07/09	<5.0	--	370	1600	1300	<5.0	<5.0	1700	9.6	<5.0	<5.0	--
	09/10/09	<2.5	--	340	2600	1100	<2.5	<2.5	45	50	4.0	<2.5	--
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	--
	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	--

Notes:

-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, 2007.

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.

APPENDIX D

ENHANCED ANAEROBIC BIODEGRADATION INJECTION LOGS, VIRONEX, INC

Injection Services Report

THE SOURCE GROUP, INC.

June 25, 2009

"Bringing Chemistry and Contaminants Together"
For the Consulting Community

"Expect Performance"

Table of Contents

Project Background

Location:

The Source requested Vironex provide In-situ injection services at the AB&I Foundary site in Oakland CA.

Product:

EOS emulsified oil and RegenOx mixed with ORC-A were the products requested by The Source Group. All reagents were delivered and staged at the AB& I Foundary.

Treatment Area:

The EOS treatment area was comprised of fifteen (15) injection points . The treatment zone was from (20) feet to (5) feet bgs.
The RegenOx treatment area was comprised of fifteen (15) injection points . The treatment zone was from (20) feet to (5) feet bgs.

Geology / Hydrogeology:

The site lithology consists of silt and silty clay.

Groundwater is first encountered at depths of approximately (4) feet bgs.

Contaminants:

Contaminants of concern consist of TCA on the EOS portion and Gas, Diesel, and BTEX on the RegenOx/ORC-A portion.

Project Summary

Project Name:

AB&I Foundry, 7617 San Leandro Street, Oakland, CA.

Project Dates:

6/4/09 - 6/5/09 and
6/9/09 - 6/12/09

Mobilization:

Vironex mobilized one (1) direct push rig and one (1) injection rig to the site accompanied by two (2) team members.

Injection Services - EOS and RegenOx/ORC-A

Vironex provided the following services:

Direct push bottom-up injection at fifteen (15) locations of a 15% EOS solution while targeting a one foot treatment interval in the injection zone from 20 feet to 5 feet bgs in the chlorinated solvent impacted area. Direct push bottom-up injection at nine (9) location of a 6% to 8% RegenOx/ORC-A solution while targeting a one foot treatment interval in the injection zone form 20 feet to 5 feet bgs in the Gasoline/Diesel/BTEX impacted area.

Summary:

This injection event was conducted starting on June 4 and continuing through June 12, 2009. The general area of the EOS injection event was under a canopy and in the parking lot on the North side of the Foundry. The general area of the RegenOx/ORC-A injection event was inside a warehouse directly South of the EOS injection area.

Based on injection results, the formation readily accepted EOS injections at pressures ranging from 10 to 50 psi, and volumes of 365 gallons at 15% per point with no day lighting. The warehouse area accepted RegenOx and ORC-A injections at pressures ranging from 10 to 60 psi, volumes ranging from 53 gallons to 640 gallons at concentrations ranging from 8% to 6%. Vironex was following the direction provided by Regenesis on-site personell when day lighting was observed on several of the RegenOx/ORC-A locations up the borehole, around the tooling and in some cases as far away as 10 to 15 feet from the injection location through cracks in the concrete floor. The day lighiting was controlled through the use of shop vacuums and absorbent pads and socks.

Vironex utilized a custom designed injection system to complete all injection activities. All locations were tremie grouted post injection.

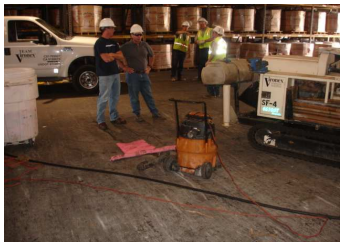
Project Photos

Water for mixing and injection was provided from onsite hose bibs

EOS injections under the canopy.

EOS injection in the parking lot area.

RegenOx/ORC-A injections insde the warehouse area.



Regenesis offered support on site during RegenOx injections.

Vironex crew member controlls day lighting with a vacuum and socks.

Injection Summary

EOS	Date	Injection Points Completed	Total Reagent Injected
Thursday	6/4/2009	3	1095
Friday	6/5/2009	4	1460

EOS	Date	Injection Points Completed	Total Reagent Injected	
Monday	6/8/2009	4	1460	
Tuesday	6/9/2009	4	1460	
	TOTAL	15	TOTAL 5475	Gallons

RegenOx / ORC-A	Date	Injection Points Completed	Total Reagent Injected	
Wednesday	6/10/2009	3	903	
Thursday	6/11/2009	3	630	
Friday	6/12/2009	3	485	
	TOTAL	9	TOTAL 2018	Gallons

DAILY INJECTION FIELD LOG SHEET

Crew Chief Jeremy Cecaci

Project Name: TSG-AB&I Foundary **SOW** ___ Check Here if same as previous borings

Injection SOW

	Pump	Moyno	Max Pressure psi	40	Max Flow gpm	4.69
	Reagent Concentration%		15%	Total Lbs		Total Gals	365
Target Interval	20 ft	to	5 ft	Lbs per __ ft		Gals per ___ ft	24.3
	Simult. Locations		1	Injection Tool	bottom up	Tool Diameter "	1.5"

Boring ID No.	Date	Start Time	End Time	Inject Int Feet To	Inject Int Feet	Average PSI	Average Flow Rate (gpm)	Reagent Per Interval (Gals)	Total Reagent Per Boring (Gals) Running Total	Injection Site Notes
PL-1	6/4/09	10:00:00 AM	11:40:00 AM	20	19	40	4.02	24.3	24.3	
				19	18	25	2.77	24.3	48.6	
				18	17	25	3.01	24.3	72.9	
				17	16	20	2.99	24.3	97.2	Minor daylighting noted, flow slowed and injections continued with out incident.
				16	15	20	3.13	24.3	212.5	
				15	14	25	3.45	24.3	245.8	
				14	13	25	3.5	24.3	170.1	
				13	12	23	3.69	24.3	194.4	
				12	11	23	3.89	24.3	218.7	
				11	10	23	3.97	24.3	243	
				10	9	23	4.01	24.3	267.3	
				9	8	25	4	24.3	291.6	
				8	7	25	4.53	24.3	315.9	
				7	6	15	4.69	24.3	340.2	
				6	5	15	4	24.3	365	55 gallons of EOS, 1 gallon of EOS activator, and 16 oz. B12 mixed with 310 gallons of water.
								Total Gallons	365	

Reconciliation		Design	Actual	Difference	Reconciliation Method
	Total lbs				
	Total Gallons	365	365	0	Batching/totalizer

Notes:
1 boring per log sheet

DAILY INJECTION FIELD LOG SHEET

Crew Chief Jeremy Cecaci

Project Name: TSG-AB&I Foundary

SOW ___ Check Here if same as previous borings

Injection SOW

Pump	Moyno		Max Pressure psi	45	Max Flow gpm		6.26
Reagent Concentration%		15%	Total Lbs		Total Gals		365
Target Inte	20 ft	to 5 ft	Lbs per __ ft		Gals per ___ ft		24.3
		Simult. Locations 1	Injection Tool	bottom up	Tool Diameter "		1.5"

Boring ID No.	Date	Start Time	End Time	Inject Int Feet To	Inject Int Feet	Average PSI	Average Flow Rate (gpm)	Reagent Per Interval (Gals)	Total Reagent Per Boring (Gals)	Injection Site Notes
PL-4	6/4/09	12:57:00 PM	2:40:00 PM	20	19	40	6.26	24.3	24.3	
				19	18	45	5.01	24.3	48.6	
				18	17	45	4.26	24.3	72.9	
				17	16	40	4.71	24.3	97.2	
				16	15	40	5.36	24.3	212.5	
				15	14	40	5	24.3	245.8	
				14	13	40	4.97	24.3	170.1	
				13	12	40	5.1	24.3	194.4	
				12	11	40	4.99	24.3	218.7	
				11	10	35	4.97	24.3	243	
				10	9	5	2.97	24.3	267.3	Gravity feed @ 2.67 gpm 0-5 psi
				9	8	10	3.01	24.3	291.6	
				8	7	10	3.02	24.3	315.9	
				7	6	15	3	24.3	340.2	
				6	5	15	3.57	24.3	365	
								Total Gallons	365	55 gallons of EOS, 1 gallon of EOS activator, and 16 oz. B12 mixed with 310 gallons of water.

Reconciliation

	Design	Actual	Difference	Reconciliation Method
Total lbs				
Total Gallons	365	365	0	Batching/totalizer

Notes:
1 boring per log sheet

DAILY INJECTION FIELD LOG SHEET

Crew Chief__Jeremy Cecaci_____

Project Name:	TSG-AB&I Foundary		**SOW**	___ Check Here if same as previous borings			
Injection SOW	Pump	Moyno	Max Pressure psi	50	Max Flow gpm	5.16	
	Reagent Concentration%	15%	Total Lbs		Total Gals	365	
	Target Inte 20 ft	to 5 ft	Lbs per __ ft		Gals per ___ ft	24.3	
	Simult. Locations	1	Injection Tool	bottom up	Tool Diameter "	1.5"	

Boring ID No.	Date	Start Time	End Time	Inject Int Feet To	Inject Int Feet	Average PSI	Average Flow Rate (gpm)	Reagent Per Interval (Gals)	Total Reagent Per Boring (Gals) Running Total	Injection Site Notes
PL-5	6/4/09	3:45:00 PM	5:05:00 PM	20	19	50	3.34	24.3	24.3	
				19	18	50	3.4	24.3	48.6	
				18	17	45	3.43	24.3	72.9	
				17	16	40	4.03	24.3	97.2	55 gallons of EOS, 1 gallon of EOS activator, and 16 oz. B12 mixed with 310 gallons of water.
				16	15	40	4.37	24.3	212.5	
				15	14	40	4.99	24.3	245.8	
				14	13	40	4.97	24.3	170.1	
				13	12	40	4.89	24.3	194.4	
				12	11	35	4.99	24.3	218.7	
				11	10	35	5.16	24.3	243	
				10	9	10	3.51	24.3	267.3	
				9	8	10	3.99	24.3	291.6	
				8	7	15	4.94	24.3	315.9	
				7	6	15	5.01	24.3	340.2	minor daylighting noted around rods, gpm slowed and injections continued without incident.
				6	5	15	3	24.3	365	PL-4 and PL-5 noted decrease in PSI and increase in gpm, slowed flow as precaution.
								Total Gallons	365	

Reconciliation		**Design**	**Actual**	**Difference**	**Reconciliation Method**
	Total lbs				
	Total Gallons	365	365	0	Batching/totalizer

Notes:
1 boring per log sheet

DAILY INJECTION FIELD LOG SHEET

Crew Chief Jeremy Cecaci

Project Name: TSG-AB&I Foundary

SOW _x__ Check Here if same as previous borings

Injection SOW

	Pump	Moyno		Max Pressure psi	45	Max Flow gpm	5.59
	Reagent Concentration%		15%	Total Lbs		Total Gals	365
Target Interva	20 ft	to	5 ft	Lbs per __ ft		Gals per ___ ft	24.3
	Simult. Locations		1	Injection Tool	bottom up	Tool Diameter "	1.5"

Boring ID No.	Date	Start Time	End Time	Inject Int Feet To	Inject Int Feet	Average PSI	Average Flow Rate (gpm)	Reagent Per Interval (Gals)	Total Reagent Per Boring (Gals)	Injection Site Notes
PL-8	6/5/09	9:10:00 AM	10:35:00 AM	20	19	35	4.07	24.3	24.3	
				19	18	40	2.7	24.3	48.6	
				18	17	40	3.71	24.3	72.9	
				17	16	45	4.74	24.3	97.2	No surfacning noted.
				16	15	40	4.97	24.3	212.5	
				15	14	45	5.01	24.3	245.8	
				14	13	39	4.26	24.3	170.1	
				13	12	40	4.71	24.3	194.4	
				12	11	30	5.59	24.3	218.7	
				11	10	30	5.57	24.3	243	
				10	9	15	5.43	24.3	267.3	
				9	8	15	5.01	24.3	291.6	
				8	7	15	4.98	24.3	315.9	
				7	6	15	4.71	24.3	340.2	55 gallons of EOS, 1 gallon of EOS activator, and 16 oz. B12 mixed with 310 gallons of water.
				6	5	20	4.37	24.3	365	
								Total Gallons	365	

Reconciliation		Design	Actual	Difference	Reconciliation Method
	Total lbs				
	Total Gallons	365	365	0	Batching/totalizer

Notes:
1 boring per log sheet

Vironex.com

DAILY INJECTION FIELD LOG SHEET

Crew Chief__Jeremy Cecaci_____

Project Name: TSG-AB&I Foundary **SOW** _x__ Check Here if same as previous borings

Injection SOW

	Pump	Moyno		Max Pressure psi	50	Max Flow gpm	5.59
	Reagent Concentration%		15%	Total Lbs		Total Gals	365
Target Interval	20 ft	to	5 ft	Lbs per __ ft		Gals per ___ ft	24.3
	Simult. Locations		1	Injection Tool	bottom up	Tool Diameter "	1.5"

Boring ID No.	Date	Start Time	End Time	Inject Int Feet To	Inject Int Feet	Average PSI	Average Flow Rate (gpm)	Reagent Per Interval (Gals)	Total Reagent Per Boring (Gals) Running Total	Injection Site Notes
PL-3	6/5/09	11:13:00 AM	12:40:00 PM	20	19	50	3.7	24.3	24.3	
				19	18	40	4.14	24.3	48.6	
				18	17	40	5.03	24.3	72.9	
				17	16	40	4.49	24.3	97.2	No surfacning noted.
				16	15	40	4.01	24.3	212.5	
				15	14	40	4.64	24.3	245.8	
				14	13	40	4.39	24.3	170.1	
				13	12	40	4.71	24.3	194.4	
				12	11	35	5.59	24.3	218.7	
				11	10	35	5.57	24.3	243	
				10	9	35	5.43	24.3	267.3	
				9	8	20	5.01	24.3	291.6	
				8	7	15	4.98	24.3	315.9	55 gallons of EOS, 1 gallon of EOS activator, and 16 oz. B12 mixed with 310 gallons of water.
				7	6	20	4.71	24.3	340.2	
				6	5	15	4.37	24.3	365	
								Total Gallons	365	

Reconciliation		Design	Actual	Difference	Reconciliation Method
	Total lbs				
	Total Gallons	365	365	0	Batching/totalizer

Notes:
1 boring per log sheet

DAILY INJECTION FIELD LOG SHEET Crew Chief__Jeremy Cecaci_____

Project Name:	TSG-AB&I Foundary			**SOW**	_x__ Check Here if same as previous borings				
Injection SOW		Pump	Moyno		Max Pressure psi	50	Max Flow gpm	6.21	
		Reagent Concentration%		15%	Total Lbs		Total Gals	365	
	Target Interval	20 ft	to	5 ft	Lbs per __ ft		Gals per ___ ft	24.3	
			Simult. Locations	1	Injection Tool	bottom up	Tool Diameter "	1.5"	

Boring ID No.	Date	Start Time	End Time	Inject Int Feet To	Inject Int Feet	Average PSI	Average Flow Rate (gpm)	Reagent Per Interval (Gals)	Total Reagent Per Boring (Gals) Running	Injection Site Notes
PL-9	6/5/09	1:33:00 PM	2:50:00 PM	20	19	40	4.14	24.3	24.3	
				19	18	50	3.7	24.3	48.6	
				18	17	50	4.57	24.3	72.9	Minimal surfacing noted during 15-14 foot zone around the tools, reduced flow and continued with out incident.
				17	16	50	5.91	24.3	97.2	
				16	15	50	6.21	24.3	212.5	
				15	14	50	4.01	24.3	245.8	
				14	13	30	4.16	24.3	170.1	
				13	12	30	4.97	24.3	194.4	
				12	11	30	4.71	24.3	218.7	
				11	10	30	4.87	24.3	243	
				10	9	20	4.27	24.3	267.3	
				9	8	20	4.97	24.3	291.6	
				8	7	20	4.99	24.3	315.9	
				7	6	20	4.07	24.3	340.2	55 gallons of EOS, 1 gallon of EOS activator, and 16 oz. B12 mixed with 310 gallons of water.
				6	5	15	4.11	24.3	365	Client requested we increase flowl and keep PSI below 40 if possible.
								Total Gallons	365	

Reconciliation		**Design**	**Actual**	**Difference**	**Reconciliation Method**
	Total lbs				
	Total Gallons	365	365	0	Batching/totalizer

Notes:
1 boring per log sheet

DAILY INJECTION FIELD LOG SHEET

Crew Chief__Jeremy Cecaci_____

Project Name:	TSG-AB&I Foundary		**SOW**	_x__ Check Here if same as previous borings			
Injection SOW	Pump	Moyno	Max Pressure psi	50	Max Flow gpm	6.73	
	Reagent Concentration%	15%	Total Lbs		Total Gals	365	
	Target Interval 20 ft	to 5 ft	Lbs per __ ft		Gals per ___ ft	24.3	
	Simult. Locations	1	Injection Tool	bottom up	Tool Diameter "	1.5"	

Boring ID No.	Date	Start Time	End Time	Inject Int Feet To	Inject Int Feet	Average PSI	Average Flow Rate (gpm)	Reagent Per Interval (Gals)	Total Reagent Per Boring (Gals)	Injection Site Notes
PL-2	6/5/09	3:15:00 PM	4:20:00 PM	20	19	50	3.06	24.3	24.3	
				19	18	45	4.11	24.3	48.6	
				18	17	40	5.01	24.3	72.9	
				17	16	40	5.13	24.3	97.2	No surfacing noted
				16	15	40	5.16	24.3	212.5	
				15	14	40	5.13	24.3	245.8	
				14	13	40	5.67	24.3	170.1	
				13	12	40	5.39	24.3	194.4	
				12	11	40	6.13	24.3	218.7	
				11	10	40	6.37	24.3	243	
				10	9	30	5.97	24.3	267.3	
				9	8	30	6.73	24.3	291.6	
				8	7	15	5.97	24.3	315.9	55 gallons of EOS, 1 gallon of EOS activator, and 16 oz. B12 mixed with 310 gallons of water.
				7	6	15	6.37	24.3	340.2	
				6	5	15	6.71	24.3	365	
								Total Gallons	365	

Reconciliation		**Design**	**Actual**	**Difference**	**Reconciliation Method**
Total lbs					
Total Gallons	365	365	0	Batching/totalizer	

Notes:
1 boring per log sheet

DAILY INJECTION FIELD LOG SHEET

Crew Chief__Jeremy Cecaci_____

Project Name: TSG-AB&I Foundary

SOW _x__ Check Here if same as previous borings

Injection SOW

	Pump	Moyno		Max Pressure psi	45	Max Flow gpm	5.91
	Reagent Concentration%		15%	Total Lbs		Total Gals	365
Target Interval	20 ft	to	5 ft	Lbs per __ ft		Gals per ___ ft	24.3
	Simult. Locations		1	Injection Tool	bottom up	Tool Diameter "	1.5"

Boring ID No.	Date	Start Time	End Time	Inject Int Feet To	Inject Int Feet	Average PSI	Average Flow Rate (gpm)	Reagent Per Interval (Gals)	Total Reagent Per Boring (Gals) Running	Injection Site Notes
PL-6	6/8/09	8:50:00 AM	10:00:00 AM	20	19	45	3.97	24.3	24.3	
				19	18	40	5.71	24.3	48.6	
				18	17	40	5.91	24.3	72.9	
				17	16	40	5.87	24.3	97.2	bubbling noted around rods at 16 to 15 foot zone, flow reduced and injections continued with out incident.
				16	15	40	5.77	24.3	212.5	
				15	14	40	4.87	24.3	245.8	
				14	13	40	5.01	24.3	170.1	
				13	12	35	5.29	24.3	194.4	
				12	11	35	5.3	24.3	218.7	
				11	10	35	5.37	24.3	243	
				10	9	30	5.11	24.3	267.3	
				9	8	30	5.07	24.3	291.6	
				8	7	15	4.99	24.3	315.9	
				7	6	15	5	24.3	340.2	55 gallons of EOS, 1 gallon of EOS activator, and 16 oz. B12 mixed with 310 gallons of water.
				6	5	15	5.13	24.3	365	
								Total Gallons	365	

Reconciliation		Design	Actual	Difference	Reconciliation Method
	Total lbs				
	Total Gallon	365	365	0	Batching/totalizer

Notes:
1 boring per log sheet

DAILY INJECTION FIELD LOG SHEET Crew Chief__Jeremy Cecaci_____

Project Name: TSG-AB&I Foundary **SOW** _x__ Check Here if same as previous borings

Injection SOW

	Pump	Moyno		Max Pressure psi	45	Max Flow gpm	5.01
	Reagent Concentration%		15%	Total Lbs		Total Gals	365
Target Interval	20 ft	to	5 ft	Lbs per __ ft		Gals per ___ ft	24.3
	Simult. Locations		1	Injection Tool	bottom up	Tool Diameter "	1.5"

Boring ID No.	Date	Start Time	End Time	Inject Int Feet To	Inject Int Feet	Average PSI	Average Flow Rate (gpm)	Reagent Per Interval (Gals)	Total Reagent Per Boring (Gals)	Injection Site Notes
PL-7	6/8/09	10:30:00 AM	11:43:00 AM	20	19	40	3.97	24.3	24.3	
				19	18	45	4.01	24.3	48.6	
				18	17	40	3.95	24.3	72.9	
				17	16	40	4.95	24.3	97.2	No surfacing noted.
				16	15	40	4.33	24.3	212.5	
				15	14	40	4.67	24.3	245.8	
				14	13	40	4.83	24.3	170.1	
				13	12	40	5.01	24.3	194.4	
				12	11	40	4.71	24.3	218.7	
				11	10	40	4.81	24.3	243	
				10	9	30	4.97	24.3	267.3	
				9	8	30	5.01	24.3	291.6	
				8	7	30	4.37	24.3	315.9	
				7	6	15	4.29	24.3	340.2	55 gallons of EOS, 1 gallon of EOS activator, and 16 oz. B12 mixed with 310 gallons of water.
				6	5	15	4.37	24.3	365	
								Total Gallons	365	

Reconciliation		**Design**	**Actual**	**Difference**	**Reconciliation Method**
	Total lbs				
	Total Gallons	365	365	0	Batching/totalizer

Notes:
1 boring per log sheet

DAILY INJECTION FIELD LOG SHEET Crew Chief__Jeremy Cecaci_____

Project Name: TSG-AB&I Foundary **SOW** _x__ Check Here if same as previous borings

Injection SOW

Pump	Moyno		Max Pressure psi	40	Max Flow gpm		5.37
Reagent Concentration%		15%	Total Lbs		Total Gals		365
Target Interval	20 ft	to 5 ft	Lbs per __ ft		Gals per ___ ft		24.3
Simult. Locations		1	Injection Tool	bottom up	Tool Diameter "		1.5"

Boring ID No.	Date	Start Time	End Time	Inject Int Feet To	Inject Int Feet	Average PSI	Average Flow Rate (gpm)	Reagent Per Interval (Gals)	Total Reagent Per Boring (Gals) Running	Injection Site Notes
PL-10	6/8/09	12:40:00 PM	2:00:00 PM	20	19	40	5.17	24.3	24.3	
				19	18	40	4.94	24.3	48.6	
				18	17	40	4.97	24.3	72.9	
				17	16	40	5	24.3	97.2	No surfacing noted.
				16	15	40	4.67	24.3	212.5	
				15	14	40	4.97	24.3	245.8	
				14	13	40	4.69	24.3	170.1	
				13	12	35	4.84	24.3	194.4	
				12	11	30	4.95	24.3	218.7	
				11	10	30	5.04	24.3	243	
				10	9	30	5.37	24.3	267.3	
				9	8	30	5.06	24.3	291.6	
				8	7	30	5.13	24.3	315.9	
				7	6	20	5.13	24.3	340.2	55 gallons of EOS, 1 gallon of EOS activator, and 16 oz. B12 mixed with 310 gallons of water.
				6	5	20	4.99	24.3	365	
								Total Gallons	365	

Reconciliation		Design	Actual	Difference	Reconciliation Method
	Total lbs				
	Total Gallons	365	365	0	Batching/totalizer

Notes:
1 boring per log sheet

DAILY INJECTION FIELD LOG SHEET

Crew Chief__Jeremy Cecaci_____

Project Name: TSG-AB&I Foundary

SOW _x__ Check Here if same as previous borings

Injection SOW

Pump	Moyno		Max Pressure psi	40	Max Flow gpm		5.27
Reagent Concentration%		15%	Total Lbs		Total Gals		365
Target Interval	20 ft	to 5 ft	Lbs per __ ft		Gals per ___ ft		24.3
Simult. Locations		1	Injection Tool	bottom up	Tool Diameter "		1.5"

Boring ID No.	Date	Start Time	End Time	Inject Int Feet To	Inject Int Feet	Average PSI	Average Flow Rate (gpm)	Reagent Per Interval (Gals)	Total Reagent Per Boring (Gals) Running	Injection Site Notes
PL-11	6/8/09	2:35:00 PM	4:00:00 PM	20	19	40	2.99	24.3	24.3	
				19	18	40	3.97	24.3	48.6	
				18	17	40	4.41	24.3	72.9	
				17	16	40	4.37	24.3	97.2	No surfacing noted.
				16	15	35	5	24.3	212.5	
				15	14	35	5.13	24.3	245.8	
				14	13	35	5.27	24.3	170.1	
				13	12	40	5.03	24.3	194.4	
				12	11	30	4.94	24.3	218.7	
				11	10	30	4.96	24.3	243	
				10	9	30	5.01	24.3	267.3	
				9	8	30	5.04	24.3	291.6	
				8	7	20	4.99	24.3	315.9	
				7	6	20	4.94	24.3	340.2	55 gallons of EOS, 1 gallon of EOS activator, and 16 oz. B12 mixed with 310 gallons of water.
				6	5	20	4.97	24.3	365	
								Total Gallons	365	

Reconciliation		Design	Actual	Difference	Reconciliation Method
	Total lbs				
	Total Gallons	365	365	0	Batching/totalizer

Notes:
1 boring per log sheet

DAILY INJECTION FIELD LOG SHEET

Crew Chief__Jeremy Cecaci_____

Project Name: TSG-AB&I Foundary

SOW _x__ Check Here if same as previous borings

Injection SOW

	Pump	Moyno	Max Pressure psi	45	Max Flow gpm	5.71
	Reagent Concentration%	15%	Total Lbs		Total Gals	365
Target Interval	20 ft	to 5 ft	Lbs per __ ft		Gals per ___ ft	24.3
	Simult. Locations	1	Injection Tool	bottom up	Tool Diameter "	1.5"

Boring ID No.	Date	Start Time	End Time	Inject Int Feet To	Inject Int Feet	Average PSI	Average Flow Rate (gpm)	Reagent Per Interval (Gals)	Total Reagent Per Boring (Gals) Running	Injection Site Notes
PL-12	6/8/09	2:35:00 PM	4:00:00 PM	20	19	40	1.57	24.3	24.3	
				19	18	40	4.97	24.3	48.6	
				18	17	40	4.69	24.3	72.9	
				17	16	40	4.67	24.3	97.2	
				16	15	40	4.54	24.3	212.5	No surfacing noted.
				15	14	40	4.67	24.3	245.8	
				14	13	40	4.94	24.3	170.1	
				13	12	40	4.96	24.3	194.4	
				12	11	40	4.94	24.3	218.7	
				11	10	40	4.95	24.3	243	
				10	9	30	4.91	24.3	267.3	
				9	8	20	5.03	24.3	291.6	
				8	7	25	4.83	24.3	315.9	
				7	6	25	5.01	24.3	340.2	55 gallons of EOS, 1 gallon of EOS activator, and 16 oz. B12 mixed with 310 gallons of water.
				6	5	25	5.71	24.3	365	
								Total Gallons	365	

Reconciliation		Design	Actual	Difference	Reconciliation Method
	Total lbs				
	Total Gallons	365	365	0	Batching/totalizer

Notes:
1 boring per log sheet

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DAILY INJECTION FIELD LOG SHEET

Crew Chief__Jeremy Cecaci_____

Project Name: TSG-AB&I Foundary

SOW _x__ Check Here if same as previous borings

Injection SOW

	Pump	Moyno	Max Pressure psi	45	Max Flow gpm	5.91
	Reagent Concentration%	15%	Total Lbs		Total Gals	365
Target Interval	20 ft	to 5 ft	Lbs per __ ft		Gals per ___ ft	24.3
	Simult. Locations	1	Injection Tool	bottom up	Tool Diameter "	1.5"

Boring ID No.	Date	Start Time	End Time	Inject Int Feet To	Inject Int Feet	Average PSI	Average Flow Rate (gpm)	Reagent Per Interval (Gals)	Total Reagent Per Boring (Gals) Running	Injection Site Notes
PL-13	6/9/09	10:43:00 AM	11:55:00 AM	20	19	45	5.46	24.3	24.3	
				19	18	40	5.44	24.3	48.6	
				18	17	40	5.37	24.3	72.9	
				17	16	40	5.51	24.3	97.2	No surfacing noted.
				16	15	40	5.62	24.3	212.5	
				15	14	40	4.99	24.3	245.8	
				14	13	40	5.37	24.3	170.1	
				13	12	40	5.29	24.3	194.4	
				12	11	40	5.31	24.3	218.7	
				11	10	40	5.33	24.3	243	
				10	9	30	5.37	24.3	267.3	
				9	8	25	5.91	24.3	291.6	
				8	7	20	5.79	24.3	315.9	
				7	6	25	5.6	24.3	340.2	55 gallons of EOS, 1 gallon of EOS activator, and 16 oz. B12 mixed with 310 gallons of water.
				6	5	25	5.69	24.3	365	
								Total Gallons	365	

Reconciliation		Design	Actual	Difference	Reconciliation Method
	Total lbs				
	Total Gallons	365	365	0	Batching/totalizer

Notes:
1 boring per log sheet

DAILY INJECTION FIELD LOG SHEET

Crew Chief__Jeremy Cecaci_____

Project Name: TSG-AB&I Foundary

SOW _x__ Check Here if same as previous borings

Injection SOW

	Pump	Moyno		Max Pressure psi	40	Max Flow gpm	5.97
	Reagent Concentration%		15%	Total Lbs		Total Gals	365
Target Interval	20 ft	to	5 ft	Lbs per __ ft		Gals per ___ ft	24.3
	Simult. Locations		1	Injection Tool	bottom up	Tool Diameter "	1.5"

Boring ID No.	Date	Start Time	End Time	Inject Int Feet To	Inject Int Feet	Average PSI	Average Flow Rate (gpm)	Reagent Per Interval (Gals)	Total Reagent Per Boring (Gals) Running	Injection Site Notes
PL-14	6/9/09	12:57:00 PM	2:15:00 PM	20	19	40	5.25	24.3	24.3	
				19	18	40	5.75	24.3	48.6	
				18	17	40	5.59	24.3	72.9	
				17	16	40	0.61	24.3	97.2	No surfacing noted.
				16	15	40	5.97	24.3	212.5	
				15	14	40	5.71	24.3	245.8	
				14	13	40	5.69	24.3	170.1	
				13	12	30	5.44	24.3	194.4	
				12	11	30	5.32	24.3	218.7	
				11	10	30	5.61	24.3	243	
				10	9	30	5.63	24.3	267.3	
				9	8	15	5.12	24.3	291.6	
				8	7	10	5.71	24.3	315.9	
				7	6	10	5.31	24.3	340.2	55 gallons of EOS, 1 gallon of EOS activator, and 16 oz. B12 mixed with 310 gallons of water.
				6	5	10	5	24.3	365	
								Total Gallons	365	

Reconciliation		Design	Actual	Difference	Reconciliation Method
	Total lbs				
	Total Gallons	365	365	0	Batching/totalizer

Notes:
1 boring per log sheet

DAILY INJECTION FIELD LOG SHEET

Crew Chief__Jeremy Cecaci_____

Project Name: TSG-AB&I Foundary

SOW _x__ Check Here if same as previous borings

Injection SOW

	Pump	Moyno		Max Pressure psi	45	Max Flow gpm	6.91
	Reagent Concentration%		15%	Total Lbs		Total Gals	365
Target Interval	20 ft	to	5 ft	Lbs per __ ft		Gals per ___ ft	24.3
	Simult. Locations		1	Injection Tool	bottom up	Tool Diameter "	1.5"

Boring ID No.	Date	Start Time	End Time	Inject Int Feet To	Inject Int Feet	Average PSI	Average Flow Rate (gpm)	Reagent Per Interval (Gals)	Total Reagent Per Boring (Gals) Running	Injection Site Notes
PL-15	6/9/09	2:36:00 PM	3:42:00 PM	20	19	45	4.97	24.3	24.3	
				19	18	40	5.01	24.3	48.6	
				18	17	40	5.62	24.3	72.9	
				17	16	40	5.41	24.3	97.2	
				16	15	40	5.39	24.3	212.5	No surfacing noted.
				15	14	35	5.61	24.3	245.8	
				14	13	30	5.79	24.3	170.1	
				13	12	30	5.87	24.3	194.4	
				12	11	30	6.01	24.3	218.7	
				11	10	25	6.13	24.3	243	
				10	9	15	6	24.3	267.3	
				9	8	15	6.13	24.3	291.6	
				8	7	20	6	24.3	315.9	
				7	6	15	5.98	24.3	340.2	55 gallons of EOS, 1 gallon of EOS activator, and 16 oz. B12 mixed with 310 gallons of water.
				6	5	10	5	24.3	365	
								Total Gallons	365	

Reconciliation		Design	Actual	Difference	Reconciliation Method
	Total lbs				
	Total Gallons	365	365	0	Batching/totalizer

Notes:
1 boring per log sheet

DAILY INJECTION FIELD LOG SHEET Crew Chief Jeremy Cecaci

Project Name: TSG-AB&I Foundary **SOW** ___ Check Here if same as previous borings

Injection SOW RegenOx and ORC-A

	Pump	Moyno		Max Pressure psi	60	Max Flow gpm	5.79
	Reagent Concentration%		8%-6%	Total Lbs		Total Gals	210
Target Interval	20 ft	to	5 ft	Lbs per __ ft		Gals per ___ ft	30
	Simult. Locations		1	Injection Tool	bottom up	Tool Diameter "	1.5"

Boring ID No.	Date	Start Time	End Time	Inject Int Feet To	Inject Int Feet	Average PSI	Average Flow Rate (gpm)	Reagent Per Interval (Gals)	Total Reagent Per Boring (Gals)	Injection Site Notes
WH-2	6/10/09	10:00:00 AM	11:00:00 AM	20	19	50	4.97	30	30	
				19	18	50	5.01	30	60	
				18	17	55	5.62	30	90	
				17	16	60	5.41	30	120	Surfacing noted up the bore hole along side the tools. Boring called
				16	15	50	5.39	30	150	
				15	14	50	5.61	30	180	
				14	13	50	5.79	30	210	
				13	12					
				12	11					
				11	10					
				10	9					
				9	8					
				8	7					
				7	6					8 buckets of Part A & Part B with 600 gallons of water and 2 buckets of ORC-A
				6	5					
								Total Gallons	210	

Reconciliation		Design	Actual	Difference	Reconciliation Method
	Total lbs				
	Total Gallons	600	210	390	Batching/totalizer

Notes:
1 boring per log sheet

DAILY INJECTION FIELD LOG SHEET

Crew Chief Jeremy Cecaci

Project Name: TSG-AB&I Foundary

SOW ___ Check Here if same as previous borings

Injection SOW RegenOx and ORC-A

Pump	Moyno		Max Pressure psi	60	Max Flow gpm	11.31
Reagent Concentration%		8%-6%	Total Lbs		Total Gals	640
Target Interval	20 ft	to 5 ft	Lbs per __ ft		Gals per ___ ft	53.3
Simult. Locations		1	Injection Tool	bottom up	Tool Diameter "	1.5"

Boring ID No.	Date	Start Time	End Time	Inject Int Feet To	Inject Int Feet	Average PSI	Average Flow Rate (gpm)	Reagent Per Interval (Gals)	Total Reagent Per Boring (Gals) Running Total	Injection Site Notes
WH-1	6/10/09	10:00:00 AM	1:30:00 PM	20	19	50	5.19	53.3	53.3	
				19	18	50	10.71	53.3	106.6	surfacing noted along cracks near injection point, flow slowed and injection continued. Surfacing noted again during 14-13 foot zone our of cracks, flow decreased and injecitons continued. 11-10 foot zone client requested we increase flow. Surfacing out of WH-2 boring called.
				18	17	55	11.31	53.3	159.9	
				17	16	50	10.07	53.3	213.2	
				16	15	60	4.99	53.3	266.5	
				15	14	60	4.87	53.3	319.8	
				14	13	55	4.95	53.3	373.1	
				13	12	25	3.01	53.3	426.4	
				12	11	30	3.21	53.3	479.7	
				11	10	30	3.57	53.3	533	
				10	9	35	6.01	53.3	586.3	
				9	8	35	6.16	53.3	640	
				8	7					8 buckets of Part A & Part B with 800 gallons of water and 2 buckets of ORC-A
				7	6					
				6	5					
								Total Gallons	640	

Reconciliation		Design	Actual	Difference	Reconciliation Method
	Total lbs				
	Total Gallons	800	640	160	Batching/totalizer

Notes:
1 boring per log sheet

DAILY INJECTION FIELD LOG SHEET Crew Chief Jeremy Cecaci

Project Name: TSG-AB&I Foundary **SOW** ___ Check Here if same as previous borings

Injection SOW RegenOx and ORC-A

	Pump	Moyno		Max Pressure psi	45	Max Flow gpm	3.5
	Reagent Concentration%		8%-6%	Total Lbs		Total Gals	53
Target Interval	20 ft	to	5 ft	Lbs per __ ft		Gals per ___ ft	26.6
	Simult. Locations		1	Injection Tool	bottom up	Tool Diameter "	1.5"

Boring ID No.	Date	Start Time	End Time	Inject Int Feet To	Inject Int Feet	Average PSI	Average Flow Rate (gpm)	Reagent Per Interval (Gals)	Total Reagent Per Boring (Gals)	Injection Site Notes
WH-9	6/10/09	2:42:00 PM	3:05:00 PM	20	19	45	3.5	26.6	36.6	
				19	18	25	2	26.6	53	
				18	17					
				17	16					Surfacing noted during first interval up the bore hole, flow lowered and tried to continue however surfacing presisted. Bring called.
				16	15					
				15	14					
				14	13					
				13	12					
				12	11					Tools broke while retracting, lost 10 feet of rod and 1 x 1.5" injection tool down hole.
				11	10					
				10	9					
				9	8					
				8	7					4 buckets of Part A & Part B with 400 gallons of water and 1 bucket of ORC-A
				7	6					
				6	5					
								Total Gallons	53	

Reconciliation		Design	Actual	Difference	Reconciliation Method
	Total lbs				
	Total Gallons	400	53	347	Batching/totalizer

Notes:
1 boring per log sheet

DAILY INJECTION FIELD LOG SHEET Crew Chief__Jeremy Cecaci_____

Project Name: TSG-AB&I Foundary **SOW** ___ Check Here if same as previous borings

Injection SOW RegenOx and ORC-A

	Pump	Moyno		Max Pressure psi	45	Max Flow gpm	4.14
	Reagent Concentration%		8%-6%	Total Lbs		Total Gals	270
Target Interval	20 ft	to	5 ft	Lbs per __ ft		Gals per ___ ft	26.6
	Simult. Locations		1	Injection Tool	bottom up	Tool Diameter "	1.5"

Boring ID No.	Date	Start Time	End Time	Inject Int Feet To	Inject Int Feet	Average PSI manifold/in line	Average Flow Rate (gpm)	Reagent Per Interval (Gals)	Total Reagent Per Boring (Gals)	Injection Site Notes
WH-3	6/11/09	8:40:00 AM	10:50:00 AM	20	19	30/20	< 1	15	15	
				19	18	28/20	< 1	0	15	
				18	17	30/20	< 1	20	35	
				17	16	35/30	2.31	25	60	Surfacing noted while pulling from 9-8 foot zone client called the boring
				16	15	45/30	3.82	30	90	
				15	14	50/25	4.14	30	120	
				14	13	50/25	4.01	30	150	
				13	12	40/28	3.85	30	180	
				12	11	40/28	3.14	30	210	Client requested we keep the PSI @ or below 30
				11	10	35/20	2.99	30	240	
				10	9	25/20	2.87	30	270	
				9	8					
				8	7					4 buckets of Part A & Part B with 400 gallons of water and 1 bucket of ORC-A
				7	6					
				6	5					
								Total Gallons	270	

Reconciliation		Design	Actual	Difference	Reconciliation Method
	Total lbs				
	Total Gallons	400	270	130	Batching/totalizer

Notes:
1 boring per log sheet

DAILY INJECTION FIELD LOG SHEET Crew Chief__Jeremy Cecaci_____

Project Name: TSG-AB&I Foundary **SOW** ___ Check Here if same as previous borings

Injection SOW RegenOx and ORC-A

	Pump	Moyno		Max Pressure psi	50/30	Max Flow gpm	4.89
	Reagent Concentration%		7%-6%	Total Lbs		Total Gals	215
Target Interval	20 ft	to	5 ft	Lbs per __ ft		Gals per ___ ft	30-35
	Simult. Locations		1	Injection Tool	bottom up	Tool Diameter "	1.5"

Boring ID No.	Date	Start Time	End Time	Inject Int Feet To	Inject Int Feet	Average PSI manifold/in line	Average Flow Rate (gpm)	Reagent Per Interval (Gals)	Total Reagent Per Boring (Gals)	Injection Site Notes
WH-5	6/11/09	11:59:00 AM	1:35:00 PM	20	19	45/30	0	0	0	
				19	18	40/30	0	0	0	
				18	17	45/30	0	0	0	
				17	16	50/25	1.78	35	35	Surfacing noted while pulling from 10-9 foot zone client called the boring
				16	15	30/15	4.89	35	70	
				15	14	25/10	4.75	30	100	
				14	13	30/15	4.36	30	130	
				13	12	30/15	4.67	30	160	
				12	11	20/10	2.5	30	190	Client requested we keep the PSI @ or below 30
				11	10	20/10	3.27	25	215	
				10	9					
				9	8					
				8	7					4 buckets of Part A & Part B with 345 gallons of water and 2 buckets of ORC-A
				7	6					
				6	5					
								Total Gallons	215	

Reconciliation		Design	Actual	Difference	Reconciliation Method
	Total lbs				
	Total Gallons	345	215	130	Batching/totalizer

Notes:
1 boring per log sheet

DAILY INJECTION FIELD LOG SHEET

Crew Chief Jeremy Cecaci

Project Name: TSG-AB&I Foundary **SOW** ___ Check Here if same as previous borings

Injection SOW RegenOx and ORC-A

Pump	Moyno		Max Pressure psi	50/30	Max Flow gpm	4.31
Reagent Concentration%		7%-6%	Total Lbs		Total Gals	100
Target Interval	20 ft	to 5 ft	Lbs per __ ft		Gals per ___ ft	30-35
Simult. Locations		1	Injection Tool	bottom up	Tool Diameter "	1.5"

Boring ID No.	Date	Start Time	End Time	Inject Int Feet To	Inject Int Feet	Average PSI manifold/in line	Average Flow Rate (gpm)	Reagent Per Interval (Gals)	Total Reagent Per Boring (Gals)	Injection Site Notes
WH-7	6/11/09	2:30:00 PM	3:45:00 PM	20	19	45/30	0	0	0	
				19	18	45/30	0	0	0	
				18	17	45/30	0	0	0	
				17	16	50/35	0	0	0	Surfacing noted while pulling from 8-7 foot zone client called the boring
				16	15	45/25	3.97	30	30	
				15	14	35/25	4.29	30	60	
				14	13	35/25	4.31	30	90	
				13	12	45/30	0	0	90	
				12	11	45/30	0	0	90	Client requested we keep the PSI @ or below 30
				11	10	45/30	0	0	90	
				10	9	50/50	0	0	90	
				9	8	35/25	0	0	90	
				8	7	30/15	3.71	10	100	4 buckets of Part A & Part B with 345 gallons of water and 2 buckets of ORC-A
				7	6					
				6	5					
								Total Gallons	215	

Reconciliation		Design	Actual	Difference	Reconciliation Method
	Total lbs				
	Total Gallons	345	100	245	Batching/totalizer

Notes:
1 boring per log sheet

DAILY INJECTION FIELD LOG SHEET

Crew Chief Jeremy Cecaci

Project Name: TSG-AB&I Foundary **SOW** ___ Check Here if same as previous borings

Injection SOW RegenOx and ORC-A

Pump	Moyno		Max Pressure psi	45/30	Max Flow gpm	5.1
Reagent Concentration%		7%-6%	Total Lbs		Total Gals	145
Target Interval	20 ft	to 5 ft	Lbs per __ ft		Gals per ___ ft	30-35
Simult. Locations		1	Injection Tool	bottom up	Tool Diameter "	1.5"

Boring ID No.	Date	Start Time	End Time	Inject Int Feet To	Inject Int Feet	Average PSI manifold/in line	Average Flow Rate (gpm)	Reagent Per Interval (Gals)		Injection Site Notes
WH-7A	6/11/09	4:17:00 AM	4:35:00 AM	20	19					
				19	18					
				18	17					
				17	16					Pushed tools to 16 foot and pulled back to 12 feet bgs. Surfacing noted around borehole.
				16	15					
				15	14					
				14	13					
				13	12	45/30	5.1	45	145	
				12	11					
				11	10					Client requested we keep the PSI @ or below 30
				10	9					
				9	8					
				8	7					
				7	6					4 buckets of Part A & Part B with 345 gallons of water and 2 buckets of ORC-A
				6	5					
								Total Gallons	145	

Reconciliation		Design	Actual	Difference	Reconciliation Method
	Total lbs				
	Total Gallons	345	145	200	Batching/totalizer

Notes:
1 boring per log sheet

DAILY INJECTION FIELD LOG SHEET Crew Chief Jeremy Cecaci

Project Name: TSG-AB&I Foundary **SOW** ___ Check Here if same as previous borings

Injection SOW RegenOx and ORC-A

	Pump	Moyno		Max Pressure psi	50/30	Max Flow gpm	5
	Reagent Concentration%		7%-6%	Total Lbs		Total Gals	195
Target Interval	20 ft	to	5 ft	Lbs per __ ft		Gals per ___ ft	30-35
	Simult. Locations		1	Injection Tool	bottom up	Tool Diameter "	1.5"

Boring ID No.	Date	Start Time	End Time	Inject Int Feet To	Inject Int Feet	Average PSI manifold/in line	Average Flow Rate (gpm)	Reagent Per Interval (Gals)	Total Reagent Per Boring (Gals)	Injection Site Notes
WH-6	6/12/09	8:40:00 AM	10:25:00 AM	20	19	50/30	0	0	0	
				19	18	50/30	0	0	0	
				18	17	45/30	0	0	0	
				17	16	45/25	2.71	30	30	No surfacing noted.
				16	15	45/15	0	0	30	
				15	14	30/10	4.4	35	65	
				14	13	30/15	5	35	100	
				13	12	45/15	0	0	100	
				12	11	45/10	0	0	100	Client requested we keep the PSI @ or below 30
				11	10	30/10	0	0	100	
				10	9	30/20	0	0	100	Client requested we inject as much as possibel at 8-7 foot interval.
				9	8	30/20	0	0	100	
				8	7	30/20	3.1	95	195	4 buckets of Part A & Part B with 400 gallons of water and 2 buckets of ORC-A
				7	6					
				6	5					
								Total Gallons	195	

Reconciliation		Design	Actual	Difference	Reconciliation Method
	Total lbs				
	Total Gallons	400	195	205	Batching/totalizer

Notes:
1 boring per log sheet

DAILY INJECTION FIELD LOG SHEET Crew Chief Jeremy Cecaci

Project Name: TSG-AB&I Foundary **SOW** ___ Check Here if same as previous borings

Injection SOW RegenOx and ORC-A

	Pump	Moyno		Max Pressure psi	35	Max Flow gpm	5.01
	Reagent Concentration%		7%-6%	Total Lbs		Total Gals	140
Target Interval	20 ft	to	5 ft	Lbs per __ ft		Gals per ___ ft	30-35
	Simult. Locations		1	Injection Tool	bottom up	Tool Diameter "	1.5"

Boring ID No.	Date	Start Time	End Time	Inject Int Feet To	Inject Int Feet	Average PSI manifold/in line	Average Flow Rate (gpm)	Reagent Per Interval (Gals)	Total Reagent Per Boring (Gals)	Injection Site Notes
WH-8	6/12/09	11:10:00 AM	12:00:00 PM	20	19	30	0	0	0	
				19	18	30	0	0	0	
				18	17	35	2.51	35	35	
				17	16	35	5.01	35	70	Surfacing noted around the rods and out the bore hole at the 15-14 foot zone. Boring called.
				16	15	35	4.04	35	105	
				15	14	35	4.17	35	145	
				14	13					
				13	12					
				12	11					
				11	10					
				10	9					
				9	8					
				8	7					
				7	6					4 buckets of Part A & Part B with 400 gallons of water and 2 buckets of ORC-A
				6	5					
								Total Gallons	145	

Reconciliation		Design	Actual	Difference	Reconciliation Method
	Total lbs				
	Total Gallons	400	145	260	Batching/totalizer

Notes:
1 boring per log sheet

DAILY INJECTION FIELD LOG SHEET

Crew Chief Jeremy Cecaci

Project Name: TSG-AB&I Foundary

SOW ___ Check Here if same as previous borings

Injection SOW RegenOx and ORC-A

Pump	Moyno		Max Pressure psi	35	Max Flow gpm	5.01
Reagent Concentration%		7%-6%	Total Lbs		Total Gals	150
Target Interval	20 ft	to 5 ft	Lbs per __ ft		Gals per ___ ft	30-35
Simult. Locations		1	Injection Tool	bottom up	Tool Diameter "	1.5"

Boring ID No.	Date	Start Time	End Time	Inject Int Feet To	Inject Int Feet	Average PSI manifold/in line	Average Flow Rate (gpm)	Reagent Per Interval (Gals)	Total Reagent Per Boring (Gals) Running Total	Injection Site Notes
WH-4	6/12/09	1:00:00 PM	2:10:00 PM	20	19	45	0	0	0	
				19	18	45	0	0	0	
				18	17	40	0	0	0	
				17	16	45	0	0	0	
				16	15	35	4.45	35	35	Surfacing noted at 9 feet bgs.
				15	14	45	4.14	30	65	
				14	13	50	4.01	30	95	
				13	12	50	0	0	95	
				12	11	40	3.23	35	130	
				11	10	45	3.97	20	150	
				10	9	40	0	0	150	
				9	8	35	0	0	150	
				8	7	40	0	0	150	
				7	6					4 buckets of Part A & Part B with 400 gallons of water and 2 buckets of ORC-A
				6	5					
								Total Gallons	150	

Reconciliation		Design	Actual	Difference	Reconciliation Method
	Total lbs				
	Total Gallons	400	150	250	Batching/totalizer

Notes:
1 boring per log sheet