

Site Characterization Report
Former Baron Blakeslee Site
Bay Shore, New York

Prepared for
General Electric Company
Albany, New York
January 2012

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Prepared for
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319 Great Oaks Blvd.
Albany, New York

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Section 1

Introduction

1.1 Purpose and Objectives

The Former Baron Blakeslee Site, hereafter referred to as the “Site”, is located at 86 Cleveland Avenue in the Hamlet of Bay Shore, Town of Islip, Suffolk County, New York (Figure 1). The Site is subject to an Order on Consent and Administrative Settlement (the “Order”) between the New York State Department of Environmental Conservation (DEC) and General Electric Company, dated September 27, 2010. The Order on Consent provided for GE to conduct a Site Characterization study of the property. The property is currently listed on the NYS Registry of Inactive Hazardous Waste Disposal Sites as a “P” Site. This Site Characterization (SC) was performed in accordance with the approved document titled “Site Characterization Work Plan, Former Baron Blakeslee Potential Site (P-Site) Site No.152204”, (Environmental Resources Management (ERM) October 2010 (revised April 22, 2011) and the SC investigation was approved by the DEC on June 9, 2011, hereinafter referred as the SCWP. Groundwater remediation measures, as described below, were implemented at the Property in the past, including but not limited to a groundwater pump and treat system. [Order on Consent paragraphs 4 & 5].

The objectives of the Site Characterization (SC) were to determine the nature of remaining contamination attributable to former solvent storage and distribution operations within subsurface soils and groundwater underlying the Site; to evaluate soil vapor beneath and surrounding the existing building, and indoor air conditions within the existing building. If remaining contamination was identified, the SC is to determine whether additional investigation or remediation of these impacts is warranted.

In order to meet the above objectives, a search for existing environmental data and records and a field investigation were performed.

The data and records search consisted of the following:

- Review of available records and/or files resulting from Freedom of Information Law (FOIL) and well search requests submitted to the Town of Islip, Suffolk County, DEC Region 1 Office, and the U.S. Geological Survey (USGS).
- Review of Environmental Data Resources (EDR) governmental environmental databases, historical Sanborn fire insurance maps, historical aerial photography, topographic maps and city directory.
- Review of existing environmental documents incorporated by reference as provided in Appendix A.

The field investigation, approved by the DEC, consisted of the following:

- Advancement of ten (10) vertical profile groundwater borings, eight (8) outside of and two (2) within the existing footprint of the building to evaluate the groundwater quality underlying the Site and to determine whether impacts to groundwater remain as a result of the former operations;
- Advancement of four (4) sub-slab soil borings within the foot print of the building to evaluate soil conditions underlying the Site and to determine whether impacts to soil remain as a result of former operations;

- The collection of four (4) soil vapor samples from within the foot print of the building, five (5) soil vapor samples from around the perimeter of the building, and (4) indoor air samples to complete a vapor intrusion evaluation to determine whether vapor intrusion issues exist at the Site;
- Surveying investigation data collection points providing both coordinates and elevations.

Section 2

Background

2.1 Location

The Site is located at 86 Cleveland Avenue in the Hamlet of Bay Shore, Town of Islip, Suffolk County, New York (Figures 1 and 2-1). Latitude and longitude coordinates for the Site are approximately 40° 45' 52.6" North and 73° 17' 19.3" West. According to records maintained by the Town of Islip Tax Assessor, the Site lot consists of approximately 1.84 acres and is designated as Parcel 0500/198-4-4.1.

The Site is located in an area of Bay Shore zoned 2-Industrial. Industrial usage of surrounding properties includes, but is not limited to, chemical manufacturing, wood working and metal operations, vehicle maintenance/transmission shops, recycled materials and concrete production facilities. The Site is surrounded to the north and across South 3rd street by an unimproved lot utilized for the parking/storage of school buses/vehicles and to the east and across Cleveland Avenue by commercial building associated with school bus maintenance (190 Fehr Way) and Precision Metals Corp (221 Skip Lane), a sheet metal company. The Site is abutted to the west by a concrete, gravel and soil recycling center (3rd Street Recycling & Materials LLC) and to the south by a redi-mix concrete center operated by the Deer Park Sand and Gravel Corp (90 Cleveland Avenue). The Site is currently serviced with municipal water from the Suffolk County Water Authority (SCWA). Public sewer services are not available in the area the site is presumed to utilize an on-site septic system.

2.2 Site Vicinity and Characteristics

2.2.1 Site Description

The Site is improved with a +47,000 square foot building, comprised of three interconnected buildings, of concrete block and corrugated steel construction on a concrete slab. Remaining grounds are comprised of asphalt-paved parking and driveway areas with landscaped and vegetated areas occurring along the northern, eastern, and southern property boundaries. A chain link fences separates the abutting commercial and industrial properties to the west and south from the Site.

The southeastern most portion of the building is occupied by a GE appliance repair shop while the remaining areas of the building, consisting of a large centrally located former warehouse/production area and a two-story office area in the northeastern portion of the building, are unoccupied and vacant. The concrete containment structure that formerly housed several above ground storage tanks (ASTs) was observed along the exterior southern production area wall and a formerly used concrete storage pad was observed west of the GE Repair portion of the building. No additional obvious evidence of the former onsite operations were noted on the ground surface.

2.2.2 Topography

The United States Geological Survey (USGS) 7.5 minute Brentwood Quadrangle topographic map (revised 1988) indicates the elevation of the Site is approximately 60 feet above mean sea level (MSL). The topography of the Site is generally flat with regional topography sloping slightly to the west/southwest and towards the Great South Bay.

2.2.3 Geology and Hydrology

The Site is directly underlain by the Upper Glacial aquifer of the Upper Pleistocene deposits. This material represents glacial outwash deposits and typically consists of moderately to highly permeable quartzose sands and gravels. Regional data suggest that the thickness of the Upper Glacial aquifer is approximately 100 feet (Smolensky, et al, 1990).

The Upper Glacial aquifer is underlain by the Magothy aquifer of the Upper Cretaceous Matawan Group of the Magothy Formation. The Upper Glacial aquifer may be hydraulically separated from the underlying Magothy aquifer by a thin and discontinuous subcrop of the Monmouth greensand. The Magothy aquifer typically consists of fine to medium sands that is frequently interbedded with clayey zones and layers of coarse sand or clay. (Smolensky, et al, 1990).

Existing investigation at the Site, including the prior installation of monitoring wells, focused on the Upper Glacial aquifer to a depth of approximately 90 feet. Based on a review of existing boring logs and the recent investigation, the upper-most geologic materials encountered on Site consist primarily of fine to coarse sand and fine to coarse gravel with a lack of fine-grained materials. BC noted reworked soils/fill consisting of a similar characterization in soils located up to four feet beneath the building slab.

Existing environmental documentation has reported the depth to the water table at approximately 10 ft bgs. During the SC investigation, the water table was observed at depths ranging from 7 to 12 ft bgs (note the water table measurements were recorded from within the vertical profile tool). No standing water or wet areas were observed on or adjacent to the Site during the investigations.

A series of prior groundwater potentiometric mapping for the Site reveals a general direction of Site groundwater flow to the south-southeast. Some potentiometric maps in the series have shown a direction of groundwater flow in the southwestern portion of the Site in a more southerly direction. The general direction of groundwater flow appears to be toward the regional discharge area represented by Great South Bay. It is not known to what extent localized groundwater flow is controlled by groundwater pumping, including influences of a deep pumping well at the adjacent Readi-mix site and/or other nearby industrial pumping wells.

2.2.4 Historic Site Operations

Standard Precast Products Corp

Based on a review of available historic aerial photographs and USGS topographic maps, the Site was unimproved woodlands prior to about 1966. By 1966, evidence of soil disturbance was visible on the Site and soil disturbance activities appeared to be associated with a nearby gravel/borrow pit operation. A review of aerial photographs and available Town of Islip records indicate that circa 1969, the property was owned by Don J. Repice and the northern portion of the Site was improved with a 50-foot by 82-foot, two-story building of concrete block and steel construction. Permits from the Building Department indicate that the building was occupied by Standard Precast Products Corp. as a garage/shop with office and storage areas. Although the exact historic Site operations are unknown, a receiver and hopper were identified in the central-eastern portion of the Site with finished products and wire mesh storage noted in the southern portion of the Site. A 2,500-gallon septic system was identified on Building Plans south and adjacent to the building with several leaching pools also identified across the Site. The building was reportedly heated by an oil-fired burner/furnace. A completion report from Brentwood Well Drillers dated March 21, 1972 indicates that a 2" well was installed to depths of 60 ft bgs (Well No. S-42395), approximately 100 feet southwest of the septic system and west of the onsite building. The intended use and current status (abandonment, etc.) of this well are not known.

Purex/Baron Blakeslee

The property was purchased by the Purex Corporation in September 1976 and under Purex ownership a warehouse/shop building was constructed in the southwestern portion of the Site and an office building was constructed in the northeastern portion of the Site. Site operations were transferred to Baron Blakeslee Inc, a division of Purex Corporation, in August 1982. During the Purex/Baron Blakeslee ownership, the Site was operated as a solvent/chemical storage, repacking, and distribution center. According to the Woodward-Clyde Engineering Report (Engineering Report, circa 1983) and SCDOH Inactive Hazardous Waste Report (IHWR, 1987), materials handled at the facility included solvents, chlorinated hydrocarbons, fluorinated hydrocarbons, aromatic hydrocarbons, aliphatic hydrocarbons, ketones and glycols. The materials were reportedly transported to the Site in bulk tankers and 55-gallon drums; transported from the trucks and within the warehouse building via “fill and draw distribution piping” and portable tankage; and stored onsite in twenty nine ASTs and/or 55-gallon drums. The solvents/chemicals were then transferred to smaller drums or tankers for delivery to customers.

According to the Engineering Report, a bulk storage area, referred to as the “Tank Pit” (surrounded by a low concrete wall/berm) was located in the southwestern portion of the Site. A secondary concrete containment area reportedly surrounded the Tank Pit and encompassed the majority of the southwestern portion of the Site. The secondary concrete containment area and Tank Pit are collectively referred to in this report and in other historic site related documents as the secondary containment area. The remainder of the Site was covered with asphalt and/or eleven storm water leaching pools for storm water runoff. Septic tanks and associated cesspools were identified east of the warehouse/shop building and north of the office building on 1979 Building Plans. According to an EPA General Notice Form (February 1984) and the 1987 SCDOH IHWR, the Baron-Blakeslee facility was reportedly closed in April/May 1983.

Aircraft Turbine Services (ATS)

The Site remained inactive (no apparent storage or distribution of chemicals onsite) and ownership of the property was transferred to the Town of Islip Industrial Development Agency (IDA) in June 12, 1984. Aircraft Turbine Services (ATS), a subsidiary of Airwork Corporation/Purex Corporation, became a tenant of the Site in 1985 and assumed responsibility of ongoing environmental remediation. Tax Assessor records indicate that ATS purchased the property in November 1991. Circa 1985, ATS constructed a 19,000+ square foot addition between the existing two onsite buildings which created the present-day structure. Under ATS the Site was operated as an aircraft engine maintenance plant. According to a letter from ATS to the SCDOH (dated May 7, 1984), ATS’s business operations at the Site included the repair and/or major overhaul of aircraft auxiliary power units (apu’s) and various aircraft components which were pneumatic or electronic in function. No manufacturing operations were reportedly conducted onsite. The May 1984 letter also describes various cleaning processes proposed for onsite operations and disassembled apu’s and other parts. Cleaning processes for metal parts (steel, aluminum and magnesium) included immersion in 400-gallon open process tanks containing cleaning solutions (described below), sodium hydroxide and water, and/or “Turco-Carb” (also described below). Used solutions were reportedly pumped into drums, classified and disposed of off-Site by a registered disposal contractor (Chemical Pollution Control, Inc.). Electrical units would typically be washed in a booth containing mineral spirits and the waste fluid was reportedly removed by a registered waste oil contractor (AKBA Waste Oil Company). According to reports, 30 drums containing waste were generated on a monthly basis under ATS’s EPA ID No. NYD072378425. While awaiting pickup for disposal, the waste fluids were reportedly stored in the rooms where the cleaning tanks were located (exact locations not described).

The May 1984 letter and a SCDOH Industrial Waste and Hazardous Materials Control Form (IWHMCF) dated April 2, 1986, indicated that four ASTs were registered under ATS and located in a concrete pit area near the southwestern corner of the building (refer to Section 2.24 for additional details regarding onsite ASTs). Other hazardous materials were reportedly stored in 55-gallon drums or process tanks in an indoor area for use in the production processes and included: calibration fluid (a petroleum hydrocarbon fraction, Exxon Isopar M (a petroleum fraction), "Jetisoil" (a product containing TCE, cresylic acid, hydrocarbon solvent, and aliphatic petroleum solvent), "Kwik-solv" (a product containing 1,1,1-trichloroethane and Triethylamine); a compound containing petroleum distillates, "Truco-Carb" (a product containing methylene chloride, butyl alcohol and sodium chromate), and reclaimed turbine engine lubricating oil. Cases (12, each containing 24 quarts) of new turbine engine lubricating oil and two 300 gallon tanks of a "Truco-Carb" were also reportedly stored in an indoor area. A subsequent list of hazardous substances was included as part of an EPA Preliminary Assessment Form prepared by the SCDOH. That form is included in Appendix A.

NYDEC Air Contamination Source Certificates (1-012862-1 through 1-012868-7) were issued to operate the following onsite processes/equipment under ATS: paint spray booth, paint baking oven, four closed system wash booths for cleaning components with mineral spirits, and a fume evacuation system serving several parts cleaning solution tanks. The SCDOH IWHMCF also indicated that ATS held a Nassau County SPDES Permit (No. NY-010-5309) for non-contacting cooling water discharge associated with the dynos and water breaks located in the test cell area. A SCDOH IWHMCF dated December 30, 1986, indicated that the cooling water also underwent air stripping treatment within the onsite groundwater treatment system which is described in Sections 2.2.71 and 2.2.72. According to the Order on Consent (A1-0648-07-10) and Town of Islip Tax Assessor records, ATS reportedly operated at the Site until the property was sold to UNC Accessory Services NY/CAMCO (UNC) in July 1994.

General Electric and Predecessors

Operations at the Site by UNC consisted of the repair and testing of aircraft accessory equipment. The equipment was reported to be cleaned in dip tanks, and other operations included shot blasting and painting.

Building renovations were conducted in 1994 and building plans (provided in Appendix A) depict a main production area containing centrally located work cubicles with a compressor room, cleaning room, pneumatic, electric and hydraulic test cell rooms located along the western warehouse wall; inspection, sand blasting, spray booth, and elevators along the northern warehouse wall; a machine shop and avionics shop, as well as offices along the eastern warehouse wall and offices along the southern building wall. The southern-most portion of the building was occupied by a pump room and hydraulic pressure test room along the western wall, a maintenance shop along the southern building wall and stock rooms, offices and receiving areas made up the remainder of this portion of the building. The northern most portion of the structure was occupied by office spaces. An interim permit (050491) for UNC to operate as a hazardous/toxic material storage facility was issued by the SCDOHS on August 26, 1996 and listed 10,000 and 550 gallons of diesel fuel, 1,500 gallons of organic solvent, and 2,420 gallons of drum storage for the Site. In 1997, UNC became a subsidiary of Greenwich Air Services, Inc. which was then purchased by General Electric Company in 1997. Greenwich Air Services was then renamed GE Engine Services. According to the 1997 McLaren/Hart Phase I Environmental Site Assessment (Phase I ESA), UNC operations ceased by April 1998.

The southeastern-most portion of the building is currently occupied by a GE appliance repair shop. Remaining areas of the building are unoccupied and vacant.

2.2.5 Regional Environmental Assessment

Records of On-Site Conditions

A search of available environmental records was obtained from Environmental Data Resources Inc., (EDR) as presented in Appendix A. The Site was listed in eight of the databases searched by EDR because of various former on-Site operations. Information provided below has been supplemented from existing environmental documentation and/or records on file with the Suffolk County Department of Health Services (SCDOH), DEC Region 1 and/or Town of Islip Offices.

- **Federal CERCLIS NFRAP Site List** - The Site is listed under Site ID 0203073 and Baron-Blakeslee Division Purex Corp as a non federal facility not on the NPL. A Preliminary Assessment was completed in 1989 and the Site was archived in November 1998.
- **UST** - The Site, under Facility ID No 10588 and GE On Wing Support, is listed under the Suffolk County UST for two 1,000-gallon No. 2 Fuel Oil underground storage tanks (shown as tanks Nos. 8 and 9 on Figure 2-1). The USTs were removed under observation of a Town of Islip Building Department representative in May 1985.
- **AST** - The Site, under Facility ID No 10588 and GE On Wing Support, is listed under the Suffolk County Aboveground Storage Tank (AST) list for several ASTs. According to the SCWP, twenty nine ASTs were stored in an exterior tank pit during historic Purex/Baron-Blakeslee operations at the Site which occurred from circa 1976 to 1983. A detailed list of tanks maintained at the Site since 1984 were documented by the SCDOH Office of Pollution Control in a Tank Compliance Inspection Data Sheet [(TCIDS) provided in Appendix A]. The list includes details of tank contents, status, removal, inspection, etc. The majority of the tanks on the TCIDS are associated with Site operations conducted under Aircraft Turbine Service (ATS) from circa 1984 through 1994. Four of the ASTs listed were stored in a concrete pit area near the southwestern corner of the building and included two 10,000 gallon and one 550-gallon Jet A Fuel (aka aviation kerosene) ASTs, and one 1,500-gallon empty AST proposed to contain used mineral spirits. Additional process tanks, ASTs and drum storage areas were also noted within the western portion of the warehouse/shop building under ATS operations (refer to TCIDS in Attachment A). As part of building renovations and new ownership of the building, one of the 10,000-gallon ASTs was removed in 1994 and the contents of the remaining ASTs in the concrete pit area were listed as 10,000 and 550 gallons of diesel fuel and 1,500 gallons of organic solvent under UNC Accessory Services NY/CAMCO (UNC) operations. Additional process tanks, ASTs and drum storage areas within the building(s), under UNC operations, are detailed in the TCIDS in Appendix A. According to the TCIDS, all interior ASTs were listed as "off use" by August 1996, and these ASTs were reported "removed" by May 1999 while the ASTs located in the outdoor concrete containment were listed as "off use" by August 1996 and removed by r May 2008.
- **NY Spills**
 - The Site, under Spill No 9825267, is listed for the release of approximately two to three gallons of kerosene (#1 Fuel Oil) from a building heater into an onsite storm drain on March 1, 1999. Miller Environmental Group cleaned up the spill and according to the EDR report, corrective action was taken and the spill case was closed March 9, 2000.
 - The Site, under Spill No. 9814608, is listed for the release of approximately 15 to 20 gallons of No. 2 Fuel Oil on March 8, 1999 due to a pinhole sized leak in the fuel oil return line. Reportedly the spill was limited primarily to the asphalt-paved area of the Site; however, some soils were affected. The Miller Environmental Group cleaned up the spill and according to the EDR report, corrective action was taken and the spill case was closed in June 1999.

- NY Hist Spills
 - The Site, under Spill ID No. 9825267, is listed for the March 1, 1999 incident documented in the NY Spills List. The EDR report indicates that the cleanup meets standards and a penalty was not recommended for the aforementioned incident.
 - The Site, under Spill No. 9814608, is listed for the March 8, 1999 incident document in the NY Spills List. The EDR report indicates that corrective action was taken, disposal receipts were received and no other action was recommended for the incident.
- RCRA-NonGen
 - The Site, under EPA ID NYD981142342/ GE On Wing Support, is listed as a verified Non-Generator in March 2006, a Conditionally Exempt Small Quantity Generator in March 1999, and a Large Quantity Generator from February 1992 through February 1998 with no violations reported.
 - The Site, under EPA ID NYD077515575/Baron-Blakeslee Division Purex Corp, is listed as verified Non-Generator from November 1980 to January 2006 and a Large Quantity Generator in August 1980.
- Manifest
 - The Site, under EPA ID NYD981142342 and GE On Wing Support, is listed for the storage of metal drums/barrels containing Non-listed Ignitable Wastes, including but not limited to, Mercury 0.2 mg/L TCLP, Chromium 5.0 Mg/L TCLP, Cadmium 1.0 mg/L TCLP and Barium 100 mg/L TCLP.
 - The Site under EPA ID NYD077515575/Baron-Blakeslee Division Purex Corp is listed for the storage of metal drums/barrels containing liquids consisting of chlorinated compounds including, but not limited to, tetrachloroethylene (PCE), and 1,1,1-trichloroethane (TCA).

Surrounding Properties

Based on review of historic aerial photographs and USGS topographic maps, commercial/industrial development was apparent on surrounding properties by the late 1960's and commercial/ industrial use of surrounding properties continues to present day. The review of records for nearby sites was performed keeping in mind that the groundwater flow direction in the vicinity of the Site is approximately south/southeast towards Great Cove. The facilities identified in the EDR report to be at a lower elevation to the Site or are hydraulically side-gradient or down-gradient of the Site are suspected to have low potential to impact soil and/or groundwater beneath the Site, thus only those sites located at higher elevations and up-gradient of the Site are further discussed below.

Two (2) nearby properties within 1/8 miles of the Site were identified in the EDR radius search with the potential to impact the soil/ groundwater beneath the Site. Several other sites located to the north/northwest and hydraulically upgradient of the Site are identified in the EDR Report under the following lists: RCRA (BC Graphics –for metals and hazardous materials storage), Leaking Tanks (PLK Realty CO), and various listings for Suffolk County USTs and ASTs. These properties are located greater than 1/8 mile from the Site and/or known impacts to environmental media were not reported and were thus not reviewed further. However, these commercial and industrial off Site properties underscore the fact that the Site is located in an area with a dense concentration of industrial and commercial properties with known past and/or present usages of hazardous materials.

The properties identified with the greatest potential to impact soil/groundwater at the Site were identified due to violations or listings for known impacts to environmental media (soil ,groundwater, etc) as follows:

- **Diamond Auto Service** at 71-73 Cleveland Ave is located approximately 0.109-miles north-northeast of the Site and is listed on the Brownfield Site Cleanup Program list. The Diamond Auto site is slightly side-gradient to the Site but may have the potential to impact the far eastern portion of the Site.

Based on information provided in the EDR Report, additional documentation for the Diamond Auto Service site was requested through a NYDEC FOIL request, including the Remedial Investigation Report (RIR) Revised November 2009, which is discussed in this subsection.

The Diamond Auto site was formerly occupied by Multi-Turn Manufacturing Corporation that used tetrachloroethene (PCE) in its manufacturing processes and a sheet metal company (Precision Metals Corporation). Currently the site is occupied as an automobile repair shop. A Phase I Environmental Site Assessment was conducted in 1998 and revealed that PCE, kerosene cutting oils, water-soluble coolant oil and lacquer thinners were used during Multi-turn operations. Investigations conducted in from 1998 to 2000 found that basin sediment and shallow groundwater (depths up to 25 ft bgs) in the eastern portion of the site were impacted by VOCs, including petroleum related VOCs (including but not limited to xylenes), PCE and PCE degradates (vinyl chloride and cis-1, 2-DCE) due to releases to a onsite storm drain and associated overflow structure. Groundwater investigations determined that groundwater flow was to the south/southeast. Deeper groundwater investigations revealed decreasing concentrations of VOCs and PCE with depth; however, PCE up to 9 µg/L was detected in groundwater at a depth of 45 to 55 ft bgs. Recent sampling conducted in 2007/2008 reported vinyl chloride was detected above standards in shallow groundwater, while PCE, cis-1,2-DCE, ethylbenzene and toluene were detected at concentrations below standards in shallow groundwater.

The RIR concludes that constituents historically detected above standards in onsite wells (PCE, cis-1,2-DCE and petroleum related constituents) have migrated off-site in a southerly direction. The EDR report indicates that the presence or absence of a groundwater plume off-site has not been confirmed.

Soil vapor intrusion sampling associated with the Diamond Auto Site was conducted in June 2007 and January 2008 and revealed detections of PCE up to 223.78 µg/m³, TCE up to 19.5 µg/m³, and toluene up to 78.37 µg/m³ in indoor air samples. Indoor air samples also contained detections of petroleum related constituents, including but not limited to, xylenes, benzenes and n-heptane in indoor air as well. Sub-slab vapor sampling revealed concentrations of 1,1,1-trichloroethane (TCA) up to 19.8 µg/m³, n-heptane up to 81.7 µg/m³ and PCE up to 617.09 µg/m³ and multiple petroleum related constituents in sub-slab soil vapor samples. The RIR indicates that due to a shallow water table (and absence of basements) in the area, there is no reason to suspect that off-site migration of vapor is a concern. The EDR report, in contrast, indicates that soil vapor intrusion may be impacting buildings immediately south of the Diamond Site.

- **Poly Scientific** (NYD052785219) at 70 Cleveland Ave is located approximately 0.0079-miles North of the Site and is listed on the RCRA-SQG and NY Manifest Lists with several reported violations resulting from compliance evaluation inspections. According to the company website, Poly Scientific has reportedly manufactured chemicals, stains and reagents for histology, cytology, and microbiology, as well as other items for in-vitro diagnostic testing since 1969. According to the EDR Report, the Site reportedly handles hazardous materials, including, but not limited to, Arsenic 5 mg/l TCLP, Silver 5 mg/l TCLP, Chloroform 6 mg/l TCLP, and other Non-Listed Ignitable and Corrosive Wastes. The Site is also found on the Suffolk County AST List for several ASTs and drums of unreported contents and industrial waste.

2.2.6 Environmental History Overview

The Suffolk County Department of Health Services (SCDOH) and Baron-Blakeslee entered into a formal Order on Consent (IW-82-71) on January 18, 1983. Previous investigations at the Site revealed that sampling of shallow groundwater (depths of approximately 15 ft bgs) and to a lesser extent deeper groundwater (depths of approximately 35 ft bgs) detected volatile organic compounds primarily including TCA, 1,2-Transdichloroethylene, Tetrachloroethylene (PCE), Trichloroethylene (TCE), 1,1-Dichloroethylene (1,1-DCE) and 1,1-Dichloroethane (1,1-DCA). VOC detections were known to extend

down-gradient and off-Site to the south/southeast. Shallow groundwater entering the Site from upgradient sources located north-northwest reportedly contained detectable concentrations of TCA and TCE.

A groundwater treatment system, consisting of two in line air stripping towers, a 10-inch purge/production well and three groundwater recharge wells, was installed in late 1984 and became operational in January 1985. The purpose of the groundwater treatment system was to remove contaminants in groundwater until analysis indicated that contaminant levels were at or below background water quality as measured in the up-gradient monitoring wells or regulatory water quality standards, whichever concentration was greater.

A groundwater treatment system operated under State Pollutant Discharge Elimination System (SPDES) permit No. UPA File No. 10-82-0797, Facility ID No. NY-019-9371. The SPDES permit established maximum concentrations of constituents in discharge water including, but not limited to 1,1,1-Trichloroethane, 1,1-Dichloroethylene, 1,2-Transdichloroethylene and 1,1-Dichloroethane of 0.05 mg/L, PCE of 0.002 mg/L and TCE at 0.01 mg/L with the maximum allowable concentration for total halogenated hydrocarbons not to exceed 0.1 mg/L. A complete list of the maximum allowable discharge parameters is provided in Appendix A. An EPA General Notice Permit application under EPA ID No. NYD077515575 was filed for the discharge of treated groundwater in February 1984. According to the permit application, approximately 100 gallons per minute (gpm) of groundwater was proposed to be pumped from the purge well, located at the southern boundary of the facility (in the vicinity of well SW-7), treated via an air stripping operation and piped and discharged in equal proportions to three wells located in the northern portion of the Site. According to the May 6, 1986 letter from ERM to the SCDOH, the SPDES permit for the groundwater recharge wells required influent and effluent samples be analyzed for volatile organic compounds twice per week. Influent and effluent sampling requirements were reduced to once per month per a letter from the SCDOH dated June 5, 1986.

An EPA Potential Hazardous Waste Site Preliminary Assessment Form was completed by SCHDOH and submitted on March 21, 1988, requesting consideration of the Site for the Superfund List. The form noted that after three years of operating a remediation system, remediation on Site was only partially complete and that detectable concentrations of VOCs had moved beyond the influence of the Site recovery well. The form also cited recent groundwater results (January 1986) from several off-Site wells that revealed elevated concentrations of 1,2-DCE at 4,200 µg/L, 1,1,1-trichloroethylene at 950 µg/L, 1,1,-DCA at 290 µg/L, PCE at 200 µg/L, and TCE at 110 µg/L.

A letter from the SCDOH to Purex Industry Attorneys dated December 20, 1988 acknowledged that the terms and conditions of the Consent Order IW-82-71 had been met. As a result groundwater treatment operations were suspended on January 3, 1989. The final influent groundwater readings were collected in December 1988 and reported the following residual constituent concentrations: 1,2 trans-dichloroethylene at 275 ppb, TCA at 8 ppb, PCE at 66 ppb and TCE at 27 ppb. A letter from the NYDEC dated October 10, 1989 granted permission to ATS to terminate their SPDES permit.

On February 19, 2008, the NYDEC sent a letter to GE Engine Services requesting that GE provide Site access so that the DEC could perform a site assessment of the property to determine if hazardous waste disposal had occurred on the property. The letter also served as a notice of intent that the DEC intended to enter and sample the Site on or after March 5, 2008. No records could be obtained by BC that confirmed sample collection had taken place on the property as proposed. On June 19, 2009 a consultant work assignment memorandum was issued by the DEC to determine if contaminants from the former solvent repackaging facility posed a significant threat to the public via soil vapor or contaminated groundwater migration.

An Order on Consent and Administrative Settlement (the "Order") was entered into between DEC and General Electric Company, dated September 27, 2010 providing for the implementation of a Site Characterization Study. The subsequent Site Characterization Work Plan was prepared by Environmental Resources Management (ERM) October 2010 (revised April 22, 2011) and the SC investigation was approved by the DEC on June 9, 2011 and is described in Sections 3 and 4.

McLaren/Hart Summary of Previous Environmental Investigations

Historic Site Features and the Former Monitoring Well Network are depicted on Figures 2-1 and 2-2, respectively.

Woodward-Clyde Consultants Engineering Report (Engineering Report) prepared for Baron-Blakeslee Inc. circa 1983

In August 1982, as part of a proposed sale of the facility, Woodward-Clyde was retained to conduct an initial assessment of groundwater at the Site. The initial assessment detected organic solvents in groundwater underlying the Site and results were submitted to the SCDOH during a meeting on September 29, 1982. The results of the initial assessment could not be located for the current file review. The September 1982 and subsequent meetings with the SCDOH resulted in the submittal of a Conceptual Remedial Plan (CRP) dated November 11, 1982, for the Site. The SCDOH and Baron-Blakeslee entered into a formal Order on Consent (IW-82-71) on January 18, 1983 (subsequently also signed by the SCDOHs on February 1, 1983) which officially approved the November 1982 CRP.

A subsurface Site investigation was conducted by Woodward Clyde in 1983 to supplement the CRP and included the installation of eleven monitoring wells; the collection of groundwater samples from the newly installed wells, four existing shallow overburden wells, ten dry wells located throughout the Site, one production well located on the adjacent Ready-Mix property to the south; and the installation of a single soil boring in the southeastern portion of the Site. A total of eight shallow (five on-Site and three off-Site) and three deep overburden (two onsite and one off-Site) monitoring wells were installed to depths of approximately 15 and 35 feet below grade surface (ft bgs), respectively. Organic vapor readings were monitored from the soils collected during the soil boring installation. The total organic vapor levels recorded were all less than 200 parts per billion and were therefore considered low enough not to warrant additional investigation in the soil.

Groundwater elevations measured during two events in April 1983 indicated that groundwater flow across the Site was generally to the southeast with groundwater in the southwestern corner of the Site (in the vicinity of the secondary containment area) being in a more southerly direction.

Groundwater sampling in April 1983 detected four volatile organic compounds (1,1,1-TCA, 1,2-Transdichloroethylene, PCE and TCE) in groundwater beneath and down gradient of the Site. The highest concentrations of the four volatile organic compounds were observed in the shallow overburden wells located in the southwestern portion of the Site either within (SW-8, Wells 3 and 4) or downgradient of (SW-4, 5 and 7) the secondary containment area. Concentrations observed in the two onsite deep overburden wells (DW-1 located downgradient of the secondary containment area and DW-2 located within the secondary containment area at southwestern corner of the property), were lower than concentrations recorded in the shallow overburden wells at the same locations/cluster indicating a dissipation of concentrations with depth. All four aforementioned constituents were detected in DW-1 while only TCE was detected in DW-2. These compounds have also historically been detected at the upgradient Diamond Auto Site.

Onsite concentrations of the compounds were reported by Woodward Clyde in 1982 & 1983 as follows: 1,1,1-TCA ranged from below detection limits to 6,600 µg/L in the shallow overburden wells and from below detection limits to 190 µg/L in the deep overburden wells; 1,2-Transdichloroethylene ranged from below detection limits to 4,700 µg/L in the shallow overburden wells and from below detection limits to

24 µg/L in the deeper overburden wells; PCE ranged from below detection limits to 620 µg/L in the shallow overburden wells and from below detection limits to 40 µg/L in the deep overburden wells; and TCE ranged from below detection limits to 3,330 µg/L in the shallow overburden wells and from below detection limits to 84 µg/L in the deep overburden wells.

Off-Site wells (SW-1 through SW-3 and DW-3) were installed down-gradient and south of the Site within Cleveland Avenue. Concentrations in the off-Site shallow overburden wells were reported by Woodward Clyde as follows: 1,1,1-TCA ranged from below detection limits to 430 µg/L; 1,2-Transdichloroethylene ranged from below detection limits to 110 µg/L; PCE ranged from below detection limits to 42 µg/L ; and TCE ranged from below detection limits to 430 µg/L.

Concentrations of the four aforementioned volatile organic compounds were not-detected (were below detection limits) in the offsite deep overburden well. Concentrations were highest in the well located approximately 100 feet southeast of the southern property boundary (SW-3) with concentrations decreasing to below or near detection limits in the farthest well from the Site (SW-1). PCE was the only compound detected in well SW-1 at a concentration of 0.5 µg/L.

Three of the shallow overburden wells (SW-6, 1 and 2) were located upgradient of the secondary containment area with SW-6 being centrally located at the northern property boundary, well No. 2 being located along the western property boundary within 50 feet north of the secondary containment area, and well No. 1 located downgradient of the current office area along the eastern property boundary. SW-6 is located upgradient of former Site activities. TCA at 65 µg/L and TCE at 3.5 µg/L were detected in this well. TCA at 65 µg/L and TCE at 23 µg/L were detected in well No 1 at concentrations higher than observed in SW-6. PCE at 24 µg/L and TCE at 15 µg/L were detected in well No. 2.

The production well located on the Read-Mix property, immediately south of the Site, was also sampled as part of this former investigation and was reportedly screened at depths of approximately 90 ft bgs. Results of the production well sampling revealed concentrations of 1,1,1-TCA at 65 µg/L; 1,2-Transdichloroethylene at 180 µg/L; PCE at 3,400 µg/L ; and TCE at 91 µg/L. The concentration of PCE was noted to be significantly higher than concentrations recorded on-Site (up to 640 µg/L). This, coupled with the observations made that concentrations appear to dissipate at depth within onsite wells, plus the overall depth of the contamination observed within the off-Site production well, led Woodward-Clyde to cite an upgradient, off-Site source for the deeper PCE contamination observed in the Ready-Mix production well. The Engineering Report details that during an August 30, 1983 meeting, the DEC acknowledged the possibility of a second deeper plume at a depth of 90 ft bgs, not originating from the Baron-Blakeslee Site. The DEC further indicated that the Department would further investigate and that Baron-Blakeslee was not responsible for proving its upgradient presence.

The four VOCs were also detected in the water samples collected from the onsite dry wells/catch basins (depths and construction not reported) as follows: 1,1,1-TCA ranged from below detection limits to 53 µg/L; 1,2-Transdichloroethylene ranged from below detection limits to 1.1 µg/L (with only two detections); PCE ranged from below detection limits to 140 µg/L; and TCE ranged from below detection limits to 7.9 µg/L. The higher concentrations of 1,1-Trichloroethane and TCE were generally observed in dry wells located down gradient of the tank pit/secondary containment area (F, H and J). The highest concentrations of PCE were detected in dry wells (A at 140 µg/L and B at 46 µg/L) located in the northwestern portion of the Site, and dry well J (at 25 µg/L). PCE concentrations were <4 µg/L for remaining dry wells with detected concentration. Similar observations were noted regarding concentrations of 1,2-Transdichloroethylene which were detected in dry wells A and J (1.0 µg/L and 1.1 µg/L, respectively) but were below detection limits for remaining dry wells. The Engineering Report referenced that the DEC accepted a preliminary Remedial Plan during the August 1983 meeting.

Groundwater Results July 1983, included as attachment to EPA General Information Permit Application February 8, 1984

Groundwater results from July 1983 were similar to those previously observed in the April 1983 groundwater sampling event with detections of 1,1,1-TCA up to 13,700 µg/L, 1,2-Transdichloroethylene up to 24,000 µg/L, PCE up to 1,000 µg/L, and TCE up to 2,600. Higher concentrations of these constituents were detected in wells located within or downgradient of the secondary containment area. With the exception of three wells (SW-3, Well 1 and DW-1) concentrations of VOCs were observed to be higher in the July event. There again appeared to be a significant dissipation of concentrations with depth; however, during this round all four VOCs were detected in both onsite deep wells.

Off-Site wells exhibited similar concentrations as observed off-site in the April 1983 event with the higher concentrations of VOCs appearing in the well (SW-3) closet to the southern Site boundary. Again there appeared to be significant dissipation of concentrations with increasing distance from the southern Site boundary. All four VOCs were detected for the first time within the deep sand well (DW-3) at concentrations ranging from 2 to 6 µg/L. An increase in VOC concentrations was observed in the deep production well located at the Read-Mix property with PCE concentrations reaching 9,000 µg/L.

Concentrations of 1,1,1-TCA and TCE within up gradient well SW-6 and Well 1 remained relatively the same as the April 1983 event. Increases of VOC concentrations were observed in Well 2 similar to those observed in wells located within and/or down gradient of the secondary containment area.

Status Report prepared for Baron-Blakeslee, Inc, January 24, 1984

This report documents remedial investigations conducted as part of remedial studies for the Site since September 30, 1983 which included the installation of two off-Site shallow overburden monitoring wells (SW-13 and SW-14) and one on-Site deep overburden monitoring well DW-4. A total of eighteen wells comprised the monitoring well network both on and off-Site at that time. The shallow wells were installed southwest of the Site on the adjacent Concrete Pipe Company property to depths of approximately 17 ft bgs and the deep well was installed in the northwestern portion of the Site to a depth of 90 ft bgs (screened from 70 to 90 ft bgs due to elevated organic vapor readings from 65 to 70 ft bgs). Groundwater samples were collected in November 1983 from the newly installed wells and well cluster 4/DW-2. Additionally a water sample was collected from dry well/catch basin K, located in the southwestern portion of the Site within the secondary containment area. Sediment samples were also collected from the onsite dry wells/catch basins at this time.

Groundwater sampling results revealed that the concentrations of VOCs in the newly installed off-Site shallow (SB-13 and SB-14) and on-Site deep well (DW-4) were reportedly below detection limits (the actual laboratory data was not included as an attachment). Concentrations of the four VOCs in well No.4 were higher than recorded for previous rounds of sampling with concentrations detected as follows: 1,1,1-TCA at 880 µg/L, 1,2-Transdichloroethylene at 780 µg/L, PCE at 300 µg/L, TCE at 1,300 µg/L. 1,1-DCE at 13 µg/L, and 1,1-DCA at 12 µg/L were detected for the first time in onsite groundwater. Lower concentrations of VOCs observed in DW-2 again indicated dissipating VOC concentrations with depth. With the exception of slightly increasing PCE concentrations (from 10 µg/L in July to 11 µg/L in November) concentrations of Site constituents decreased to < 16 µg/L (PCE and TCE) or were below detection limits. The water sample collected from CB-K exhibited the detection of the same VOCs as detected in groundwater as follows: 1,1,1-TCA at 9,200 µg/L, 1,2-Transdichloroethylene at 430 µg/L, PCE at 240 µg/L, TCE at 1,100 µg/L, 1,1-DCE at 75 µg/L, and 1,1-DCA at 110 µg/L.

The catch basin sediment sampling revealed total volatile organic concentrations ranged from below detection limits (in 5 catch basins located upgradient from secondary containment area) to 3,314,000 µg/L, with the highest concentrations detected in CB-K and I (located along the southeastern side of the current GE repair facility). Lesser VOC concentrations were observed in remaining dry wells

away from the tank farm/secondary containment area. The primary VOCs detected in CB-K and I included: 1,1,1-TCA (at 2,700,000 µg/L and 8,500 µg/L), TCE (at 410,000 µg/L and 1,100 µg/L), PCE (at 66,000 µg/L and 470 µg/L), 1,1-DCA (at 14,000 µg/L and 280 µg/L), 1,1-DCE (at 36,000 µg/L and 310 µg/L), 1,2-Transdichloroethylene (at 36,000 µg/L and 140 µg/L) and xylenes (at 52,000 µg/L and 80 µg/L), respectively. The five remaining CBs, located mainly in the southern half of the Site exhibited detections of ethylbenzene (up to 40 µg/L), PCE (up to 30 µg/L), xylenes (up to 470 µg/L), and 1,2-Transdichloroethylene (up to 80 µg/L).

Letter from SCDOH to ATS Re: Disposition of Existing Leaching Pool Systems

The letter summarized previous conversations between the SCDOH and ATS regarding the disposition of the then existing leaching systems, which were associated with the existing catch basins, at the Site. ATS proposed to eliminate leaching systems CB-C through E, G and I as part of the proposed construction for the +19,000 square foot addition. The letter indicates that the decisions made regarding the leaching systems were based on analytical data described above. Leaching pool systems that were allowed to remain or be removed and backfilled included CB-C through H. Those leaching pool systems that required additional analysis included CB- I, J, K newly identified leaching systems M (single leaching pool near the NW corner of the main operating building), N (single leaching pool in the vicinity of the SW corner of the main building) and O (single leaching pool located in the vicinity of the SE corner of the main building). Samples were to be analyzed for VOCs including xylenes by EPA method 624. The letter also required that leaching pool systems CB-I and K be pumped out, including scraping and removal of contaminated material.

Installation and Sampling of Monitoring Wells prepared for Aircraft Turbine Services, Inc, by ERM-Northeast (ERM) dated September, 1985

The report notes that by September 1985 there were 20 monitoring wells and an operational groundwater remediation treatment system (described above) associated with the Site. Several on-Site (2, 7, SW-4, SW-7, and DW-1) and off-Site (SW-1, SW-2, SW-13, and SW-14) wells were no longer in use (listed as former wells) and two down gradient wells (DW-1A and SW-1A) had been installed near the northeastern corner at the intersection of Cleveland Avenue and Fourth Street. No historical data was available for review for the DW-1A and SW-1A wells as part of this report. The September 1985 report indicates that SCDOH requested two deep overburden (depths of 35 ft bgs) monitoring wells (BB-1 and BB-2) be installed down gradient of the Site along Fourth Street. These wells were sampled in August 1985 and analytical results revealed that BB-1 (the southeastern most well) contained elevated concentrations of VOCs as follows: 1,1,1-TCA at 40 µg/L, PCE at 3 µg/L, TCE at 5 µg/L, 1,2-DCE at 500 µg/L; 1,1-DCA at 20 µg/L; and Vinyl Chloride at 13 µg/L. Concentrations of constituents were reportedly less than those previously identified in nearby well DW-1A. No VOCs were detected in BB-2. The report indicated that a comprehensive sampling program was proposed for September 26, 1985 for the entire on-Site/off-Site network of monitoring wells, results of which would be provided in a comprehensive Site report discussing both hydrologic and constituent distribution associated with the size, summary of groundwater treatment influent and effluent analysis, analysis of the recovery well capture zone, and completion of delineation for the down gradient extent of the impacted groundwater. It is unclear if this report was ever prepared by ERM.

Letter from ERM to SCDOH providing results of April 1986 vertical groundwater profile sampling dated May 21, 1986

The letter indicates that two off-Site vertical groundwater profiles (ATS-4 and ATS-5) were conducted to a depth of 60 feet. Groundwater samples were collected from 14-19 ft bgs, 25-30 ft bgs; 40-45 ft bgs and 55-60 ft bgs at each of the holes. The locations of these profiles are shown on Figure 2-2. Relatively low concentrations of 1,1,1-TCA (ranging from below detection limits to 1 µg/L), PCE (ranging from below detection limits to 5 µg/L) and TCE (ranging from below detection limits to 1 µg/L) were observed in

profile ATS-4. Concentrations in AST-5 were higher than those observed in ATS-4 for VOCs including: 1,1,1-TCA (ranging from below detection limits to 1 µg/L), 1,2-DCE (ranging from 3 µg/L to 1,500 µg/L), 1,1-DCA (ranging from below detection limits to 3 µg/L), PCE (ranging from below detection limits to 6 µg/L), TCE (ranging from below detection limits to 47 µg/L), and vinyl chloride (ranging from below detection limits to 64 µg/L). The highest concentrations of constituents were generally noted in the shallowest and deepest sample intervals, with 1,2-DCE, PEC and/or TCE being the only constituents detected in the intermediate intervals.

ATS Force Main Piping and Materials Specifications prepared by ERM (After 09/22/1986)

The document describes the materials and specifications for the proposed installation of a force main that was intended to convey approximately 100 gpm of recovered water through the length of approximately 1,800 linear feet of piping. The highest concentrations of total VOCs proposed to be conveyed through the force main was 1,188 ppb reportedly detected during a round of groundwater sampling at well ATS-5 which was located immediately up gradient of the proposed production well. A Water Force Main Preliminary Layout Drawing depicts the proposed piping run which is roughly drawn on Figure 2-2. The drawing also depicts the lateral extent of groundwater contamination as an area approximately 175 feet wide and extending approximately 1,000 feet southeast of the southeastern property boundary. Brown and Caldwell was unable to determine whether the off-Site recovery well and force main were ever installed.

Letter from NYDEC to ATS regarding DEC concurrence to include the Site in the State Superfund Registry dated May 3, 1988.

An EPA Potential Hazardous Waste Site Preliminary Assessment Form was completed by SCHDOH and submitted on March 21, 1988 requesting the addition of the Site to the Superfund List. The form noted that after three years of operating a remediation system on Site, the program was only partially complete and the detection of VOCs had moved beyond the influence of the recovery well. The letter indicates that the installation of an offsite recovery well and piping (force main described above) to connect the new recovery well to the onsite groundwater treatment system was proposed; however, problems were identified regarding routing the piping through private off-Site properties. The form also included groundwater sampling results from several off-Site wells (from January 1986) that revealed elevated concentrations of 1,2-DCE up to 4,200 µg/L, 1,1,1,- trichloroethylene up to 950 µg/L, 1,1,-DCA up to 290 µg/L, PCE up to 200 µg/L, and TCE up to 110 µg/L.

Letter from SCDOH to Purex Industry Attorneys dated December 20, 1988

This letter acknowledged that terms and conditions of the Consent Order IW-82-71 had been met. As a result, groundwater treatment operations were suspended on January 3, 1989. The final influent groundwater readings were collected in December 1988 and revealed the following residual constituent concentrations: 1,2 trans-dichloroethylene at 275 ppb, 1,1,1-TCA at 8 ppb, PCE at 66 ppb, and TCE at 27 ppb. A letter from the NYDEC dated October 10, 1989 granted permission to ATS to terminate their SPDES permit.

Letter from SCDOHS to UNC dated November 20, 1996 regarding Soil Samples Collected 10/2/1996

The letter discusses results of soil sampling from three onsite storm drains/sanitary leaching pools on October 2, 1996 that revealed constituent concentrations indicative of unpermitted discharges of industrial waste. A sample collected from a storm drain located south of the production area sanitary system (1 JG 10-2) revealed concentrations of cadmium at 4 ppm (parts per million), chromium at 15 ppm, copper at 560 ppm and nickel at 40 ppm. Additionally a sample collected from the production area sanitary leaching pool revealed a concentration of 1,4-dichlorobenzene at 0.900 ppm. The letter concludes that the detected compounds were not to be discharged to the ground, sanitary system, storm drain or other leaching system. The letter further directed UNC to have all contaminated solids/sludge

and liquids pumps removed from this and all other pools and/or tanks within the system prior to January 10, 1997 unless samples from the structures demonstrate that concentrations of contaminants do not warrant remediation. The letter did not require a clean-out of the production area sanitary system; however, it noted that the presence of 1,4-dichlorobenzene was a cause for concern. This constituent was reportedly detected in urinal blocks which may have been in use at the facility and the SCDOH strongly recommended their disuse if present.

On January 6, 1997 a representative of the SCDOHS witnessed the removal of contaminated material from the storm drain at the facility and collected a confirmatory sample which revealed no elevated levels were detected. A February 3, 1997 letter from SCDOH required no additional cleanup of the drain.

Phase I Environmental Assessment Report (Phase I) prepared by McLaren/Hart for GE Capital Corporation. March 1998

The Phase I noted that former groundwater impacts identified at the Baron-Blakeslee operations had moved off-Site. Additionally the Phase I identified minor oil staining on the floor of the compressor room, the storage of diesel fuel and small quantities of cleaning products (<10 gallons), storm drains, a former transformer, and septic system at the Site. No additional environmental issues, other than that of the potential asbestos in building materials, were noted.

Phase II Environmental Assessment Report (EAR) prepared by McLaren/Hart for GE Global Services Organization, Inc., May 1998

Based on the Phase I and additional discussions with GE representatives, the Phase II EAR was conducted to assess five potential areas of environmental interest at the Site including a former transformer pad, storm water catch basins, AST and hazardous materials storage pad, Site groundwater, and a septic field. The investigation included the advancement of five soil borings with the collection of soil samples, the collection of eleven sediment samples from the onsite catch basin and septic system, the installation of three new monitoring wells, and the collection of groundwater samples from five monitoring wells.

Two surficial (0 to 6") soil samples were collected from within a foot of the former transformer pad and results revealed that polychlorinated biphenyls (PCBs) were not detected in excess of applicable criteria.

One sediment sample was collected from each of the eleven onsite catch basins and analyzed for priority pollutants plus 40 (PP+40). Results revealed that no VOCs or semi-VOCs were detected above applicable standards. Several metals were detected in excess of applicable criteria as follows: zinc was detected in nine catch basins at concentrations ranging from 47 to 350 ppb (NYDEC/EPA criteria of 20 ppb); copper was detected in two catch basins at concentrations ranging from 25.2 to 87 ppb (NYDEC/EPA criteria of 25 ppb); and two catch basins contained cadmium, chromium, beryllium and nickel at levels slightly above applicable criteria.

Soil borings were installed in four locations down gradient of the former AST and hazardous materials storage areas. Two soil samples were collected from each boring at 0-2 ft bgs and immediately above the water table and analyzed for PP+40. No VOCs or semi-VOCs were detected above applicable criteria and copper was the only metal detected at a concentration of 29.1 ppb above criteria in the subsurface soil sample.

Three new wells, MW-1 through MW-3, were installed to depths of 12 ft bgs in the northwestern corner of the property, southeast of production portion of the building, and centrally located along the southern property boundary, respectively. The newly installed wells plus existing deep well DW-4 (total depth 90 ft bgs) and shallow well SW-5 (total depth 16 ft bgs) were sampled for PP+40 via the three volume purge method. VOCs, including cis-1,2-DCE up to 5.3 ppb, 1,1,1-TCA up to 23.6 ppb, PCE up to 21.9 ppb, and TCE up to 10.4 ppb, were detected in concentrations in excess of applicable criteria in the three wells located down gradient of the building (MW-2, MW-3 and SW-5). The concentrations observed, however,

were substantially lower than the concentrations detected in groundwater after termination of onsite groundwater treatment operations 10 years earlier. Concentrations of PP+40 metals, including chromium, lead, mercury, copper and/or zinc were detected in the sampled wells, but only lead was detected above applicable standards.

One soil boring was advanced directly down gradient of the onsite septic system with the collection of one soil boring immediately above the water table. This sample was analyzed for PP+40 and results revealed that no constituents were detected above applicable standards.

2.2.7 Potential Off-Site Receptors

Ecological Receptors

Impacts to ecological receptors, including wetlands and surface water bodies, are unlikely as a result of Site conditions and the overall commercial and industrial nature of the surroundings. According to the New York State Geographic Information System (www.nysgis.state.ny.us) and the EDR report, no federal or DEC-listed wetlands, streams or other surface water bodies are located within ¼ mile of the Site. The nearest wetlands are associated with the Sampawams Creek, located approximately 0.9-miles southwest (side-gradient) from the Site. The Site is not located in the 100 year or 500 year flood plain as designated by the Federal Emergency Management Administration (FEMA).

Groundwater Receptors

Impacts to off-site groundwater receptors as a result of Site conditions are not likely to exist. Potable water supply is available in the entire Site vicinity by the Suffolk County Water Authority (SCWA) such that private wells are not generally used for potable water. The source of the water to the SCWA is reported to be deep wells tapping the Magothy Aquifer. And it is worth noting that even the historic site data did not reflect a substantial impacts to the deeper Glacial Aquifer, which is above the Magothy aquifer. According to documentation provided by the SCWA, there are several supply wells located within a 5-mile radius of the Site, with the two closest side-gradient and down-gradient wells located approximately 1.2-miles east/southeast and 1.75- miles south of the Site, respectively. These supply wells are installed at depth ranging from 283 ft bgs to 818 ft bgs. In the preparation of this report, no survey or reconnaissance was conducted to identify the presence (if any) of private water wells in the vicinity of the Site. Public water is provided throughout the area by the SCWA.

Available records indicate that most area residences and businesses utilize the available public (SCWA) water supply. However, the Redi-Mix concrete property located immediately south of the Site (90 Cleveland Ave), does not currently appear to utilize a connection despite the presence of an active commercial facility, including at least one occupied commercial structure. It is not known if the industrial well on the Redi-Mix property is impacted either by the Redi-Mix operations or the Site and/or if it is employed for potable uses.

According to the EDR report, two water wells (USGS2115913 and USGS2115912) are located between ¼ mile and ½ mile and two other water wells (USGS2115980 and USGS2116287) are located between a ½ mile and 1 mile south/southeast of the Site. No information regarding the use of these wells was provided by EDR, but they are likely to be maintained by the USGS as observation wells. Review of available USGS well records indicate that several observation/test wells have been installed in the vicinity of the Site, with the majority of those installed to the south/southeast of the Site associated with the nearby Sonia Landfill site, an inactive municipal solid waste land fill reported to have contained wastes including TCA, PVC, Trimellitate and 2-Ethylhexanol.

Vapor Intrusion

Available data suggest that vapor intrusion (VI) impacts to off-site structures as a result of a Site related groundwater VOC detections are unlikely to be occurring.

Portions of the Site history presented in this section were obtained from review of available files and/or existing environmental reports obtained from the Town of Islip Construction and Tax Assessor Offices, SCDOH Office of Pollution Control, and DEC files associated with FOIL request No. (11-0686). Copies of documents used in the preparation of the following sections have been included in Appendix A. Approximate locations of Historic Site Features are depicted on Figures 2-1 and 2-2.

Section 3

Site Characterization Investigation

The following Site Characterization Investigation was conducted in accordance with the approved SCWP dated April 22, 2011. SC investigation locations are shown on Figure 3. The SC data provide information as to current conditions on the Site and provide an opportunity to review the data in the context of data that has been collected since 1983.

3.1 Vertical Profile Groundwater Sampling

Ten (10) vertical profile boreholes (GWP-1 through GWP-10) were installed to evaluate representative groundwater quality beneath the Site. Two (2) of the groundwater profile borings were installed within the existing building and eight (8) were distributed across the exterior portions of the Site. The locations of the vertical profile boreholes are shown on Figure 3. The two interior vertical profile boreholes (GWP-9 and GWP-10) could not be installed as proposed in the SCWP due to limited ceiling height and/or the potential for underground utilities at the proposed locations. Offset locations were placed as close as possible to the proposed locations in the work plan. The borings were advanced by Zebra Environmental (Zebra) of Lynbrook, New York using a track-mounted 6620 DT Geoprobe® rig fitted with a vertical profile SP-16 tool. Prior to sampling the interior vertical profile locations, a 4-inch diameter Milwaukee Dymodrill No. 4094 core drill was used to core through the concrete slab. The depth of the concrete slab varied from 5 to 6 inches in thickness. The borings were overseen by a BC hydrogeologist.

The borings were advanced to depths ranging from 60 to 64 ft bgs with the collection of one groundwater sample per ten foot interval beginning at the water table (approximately 10 ft), for a total of 6 groundwater samples per boring. Each sample zone was purged of three (3) well volumes using an inertial pumping system with a bottom check valve (e.g. Waterra pump) prior to sample collection. A U-22 Horiba recorded sample turbidity (in NTUs) and other field parameters (pH, specific conductance, temperature, dissolved oxygen, oxygen reduction potential) for use in interpreting analytical results (data are provided in Appendix B). In accordance with the SCWP, the samples were not filtered. An apparent, slight sheen was noted on the purge water from the water table sample collected immediately south of the exterior concrete pit that formerly housed ASTs (GWP-4-8-10) that was not collaborated by laboratory data that were ND for this sample.

The groundwater samples were transferred into laboratory-supplied containers, picked up by laboratory courier or shipped via FedEx and delivered to Test America Laboratories-Buffalo (Lab Certification No. 11182) located in Amherst, New York. Groundwater samples collected from the water table were analyzed for the full target compound list (TCL) of volatile organic compound (VOCs) plus 10 tentatively identified compounds (TICs) using USEPA SW-846 Method 8260B, TCL semivolatile organic compounds (SVOCs) plus 20 TICs using USEPA SW-846 Method 8270, TAL Metals using USEPA SW-846 Method 6010 and Total mercury by USEPA SW-846 Method 7471. Groundwater samples collected from remaining depths were analyzed for VOCs plus TICs using USEPA SW-846 Method 8260B, and TAL Metals using USEPA SW-846 Method 6010, and Total mercury by USEPA SW-846 Method 7470A.

Abandonment of each borehole was accomplished by allowing the borehole to collapse below the water table and grouted the open borehole from the point of collapse to the surface. The asphalt pavement penetrations were repaired with cold-patch asphalt and concrete penetrations were repaired with concrete mix.

3.2 Soil Borings

Four sub-slab soil borings (SB-1 through SB-4) were installed to access soil quality conditions beneath the existing building. Soil boring locations are shown on Figure 3. As was the case with the interior vertical profile groundwater borings, three of the interior soil borings (SB-2 through SB-4) could not be installed as proposed in the SCWP due to limited ceiling height and/or the potential for underground utilities at the proposed locations. Offset locations were placed as close as possible to the proposed locations in the work plan. The borings were advanced by Zebra using the track mounted 6620 DT Geoprobe® rig equipped with a 58-inch long, two-inch diameter Macro Core sampler fitted with a clear disposable acetate sleeve/liner. The borings were overseen by a BC hydrogeologist. Detailed boring logs are contained in Appendix C.

Borings were advanced five (5) feet below the concrete slab. Due to concerns that utilizing the method detailed in SCWP SOP 3 to obtain VOC headspace readings could result in insufficient sample volume if poor sample recovery was achieved, BC requested approval of an alternative soil screening approach in an email dated July 14, 2011. The alternative screening method included the piercing of the unopened acetate sleeve and soil core at 4 inch intervals with an awl or ice pick and inserting the photoionization detector (PID) tip into the resulting holes in the soil core. The alternative screening method was approved by the DEC in an email dated July 15, 2011. Sufficient sample recovery was achieved at each of the sampling locations. To cause minimal sample disturbance, the alternative screening approach was applied to each boring. Once the liner was opened, a sample was collected from the interval of highest PID reading, then screening was conducted as detailed in SOP 3 to confirm sample interval selection. The soils were logged in accordance with the Burmister Soil Classification System and classified using the Unified Soil Classification System (USCS). Soil samples were also screened for potential impacts using visual and olfactory methods.

One sub-slab soil sample was collected from the one-foot sample interval at each boring, based on visual/olfactory observations and PID readings; the sample with the greatest indication of potential impacts (if any) was submitted for analysis. The soil samples were transferred into laboratory-supplied containers, picked up by laboratory courier or shipped via FedEx and delivered to Test America. Soil samples were analyzed for TCL VOCs plus 10 TICs using USEPA SW-846 Method 8260B, TCL SVOCs plus TICs using USEPA SW-846 Method 8270, TAL Metals using USEPA SW-846 Method 6010, and Total mercury by USEPA SW-846 Method 7471.

The boreholes were backfilled with drill cuttings and each concrete penetration was repaired with concrete.

3.3 Exterior Soil Vapor

Five (5) exterior soil vapor samples were collected at locations within the asphalt-paved parking lot surrounding the southern end of the existing building. Temporary soil vapor sample locations were installed and sampled utilizing the methods described in the SCWP SOP 5. The sample locations were installed on November 14, 2011, and allowed to equilibrate for 24 hours, per the SOP. Field screening of the newly drilled sample locations, conducted with a PID, showed VOC concentrations ranging from 0.0 ppm at locations SV-02 and SV-05 to 0.9 ppm at location SV-01.

The samples (SV-01 through SV-05), were collected on November 15, 2011 and collected utilizing 6 liter Summa Canisters and flow controllers set for 8-hour sample collection. A field duplicate sample was collected at location SV-01. The soil vapor samples were analyzed for TCL VOCs utilizing USEPA Method TO-15 by TestAmerica Laboratories in Burlington, Vermont. Outdoor air temperature during the sample event ranged from 65 to 69 degrees Fahrenheit. The weather was cloudy with no precipitation.

3.4 Sub-Slab Soil Vapor

Four (4) sub-slab soil vapor samples were collected at locations within the existing building. Temporary sub-slab soil vapor sample locations were installed and sampled utilizing the methods described in the SCWP SOP 4. The sample locations were installed and sampled on November 15, 2011, per the SOP. Field screening of the newly drilled sample locations, conducted with a PID, showed VOC concentrations ranging from 0.0 ppm at locations SS-01, SS-02, and SS-03 to 2.4 ppm at location SS-04.

The samples (SS-01 through SV-04), were collected utilizing 6-liter Summa Canisters and flow controllers set for 8-hour sample collection. The sub-slab soil vapor samples were analyzed for TCL VOCs utilizing USEPA Method TO-15 by TestAmerica Laboratories in Burlington, Vermont. Indoor air temperature during the sample event ranged from 68 to 71 degrees Fahrenheit.

3.5 Indoor Air

Indoor Air samples were collected at four (4) locations within the existing building. The indoor air was sampled utilizing the methods described in the SCWP SOP 6. Indoor air samples were co-located with their respective sub-slab soil vapor sample. Field screening of indoor air within the building resulted in no readings on the PID.

The samples (IA-01 through IA-04), were collected utilizing 6-liter Summa Canisters and flow controllers set for 8-hour sample collection. The indoor air samples were analyzed for TCL VOCs utilizing USEPA Method TO-15 by TestAmerica Laboratories in Burlington, Vermont. Indoor air temperature during the sample event ranged from 68 to 71 degrees Fahrenheit.

3.6 Site Survey

Each of the investigation locations were located by a New York-licensed surveyor following completion of the investigation. The survey included location coordinates and elevations and was completed by MJ Engineering & Land Surveying, PC of Long Island City, New York.

Section 4

Site Characterization Results

4.1 Site-Specific Geology and Hydrogeology

A description of the subsurface conditions encountered during the investigation is provided in the subsections below.

4.1.1 Geology and Hydrogeology

Four (4) soil borings were advanced to a depth of 5 feet below the concrete slab. Reworked soils consisting predominantly of sand with varying amounts of gravel and silt were encountered from below the concrete slab to approximately 5 feet below ground surface. Asphalt fragments were noted in one boring (SB-1) collected from within the southern portion of the building. Detailed boring logs that further describe the geologic materials underlying the Site are provided in Appendix C.

The nature of the subsurface samples obtained as part of the SC did not provide different information regarding Site geologic and hydrologic conditions than was previously described in Section 2.2.3. Specifically, the Site is underlain by the unconfined Upper Glacial aquifer consisting of coarse to fine sands with varying amounts of gravel. No confining unit was identified in available historic boring logs to a depth of 90 feet. Historic potentiometric mapping indicates that groundwater flow is to the south-southeast.

4.2 Analytical Results

4.2.1 Data Usability Summary

Each of the samples collected was analyzed by Test America. Complete data packages are provided on compact disk in Attachment D. A Data Usability Summary Reports (DUSRs) was prepared for each soil data package (Attachment E). No data were rejected as the result of the data usability review. Minor data quality issues with respect to spike and LCS recoveries for several VOCs and SVOCs and blank contamination of iron, manganese and copper were identified for groundwater samples. As a result, select data were qualified as necessary. Acetone and 2-butanone (MEK) were reported as non-detect at a reporting limit of 10 µg/L rather than 5 µg/L as indicated in the SCWP. The two compounds were not detected in the collected groundwater or soil samples.

4.2.2 Vertical Profile Groundwater Results

Water table samples were submitted for analysis of VOCs plus TICs, SVOCs plus TICs, and Metals (including mercury). Subsequent depth intervals were submitted for analysis of VOCs plus TICs and Metals (including mercury) per the SCWP. Table 1 provides a summary of the detected analytical results for the samples collected from the vertical profile groundwater sampling. The results were compared to NYSDDEC's Industrial Groundwater Quality Standards [6 NYCRR Part 703] and Federal Maximum Contaminant Levels (MCLs). Exceedances are briefly described below. Detected VOCs are depicted on Figure 4-1.

Relatively low levels of several VOCs were detected in several of the vertical profile groundwater samples. Benzene at 1.6 µg/L and toluene at 6.7 µg/L observed at the water table sample collected from the southeastern property corner (GWSP-7-8-10) were the only BTEX concentrations detected above

applicable criteria of 1 µg/L and 5 µg/L, respectively. BTEX concentrations were observed to decrease with depth, and by the 38 to 40 ft bgs sample interval, were below detection limits. PCE was detected in the water table sample collected from the southeastern area of the main building (GWP-10-10-12) at 12 µg/L, which is above the applicable criteria of 5 µg/L. This constituent was not detected in the subsequent depth intervals samples.

An SVOC, bis(2-ethylhexyl)phthalate (BEHP), was detected in two water table samples collected from immediately south of the exterior concrete pit that formerly housed ASTs (GWP-4-8-10) at 13 µg/L and near the southern property boundary south of the GE repair facility (GWP-6-8-10) at 6 µg/L. These BEHP detections are just slightly above the applicable criteria of 5 µg/L. Deeper interval samples were not analyzed for SVOCs per the SCWP.

The borehole groundwater sampling method as described in Section 3.1 unavoidably resulted in the collection of samples with high suspended solids (TSS), manifested by turbidity measurements in excess of 800 NTUs, the limits of the field instrument. This is despite the fact that the borehole sampler was purged of three (3) well volumes prior to sample collection to minimize the collection of solids. Furthermore, the samples were not filtered given the scope of the SCWP and NYDEC guidance. The collection of groundwater samples in this manner for screening purposes was generally acceptable for relatively soluble parameters such as VOCs and the detected SVOC. However, the concentrations of constituents that can readily sorb to soil particles are typically elevated with respect to representative groundwater concentration in such turbid samples. This is particularly true of metals, most of which are frequently naturally occurring in soils.

Numerous metals, including aluminum, arsenic, barium, beryllium, chromium, cobalt, copper, iron, lead, manganese, nickel, potassium, sodium, and vanadium were detected in groundwater at concentrations exceeding applicable standards. The areal and vertical distribution of the samples containing elevated metals appears unrelated to Site activities and is apparently associated with sample turbidity. Specifically, metals are present in groundwater across the Site, including upgradient locations (GWP-1 and GWP-2) and appear to be distributed throughout the water column (from water table to depths of approximately 60 ft bgs). As a result, the metals concentrations are not considered to be representative of Site-related activities impacting groundwater conditions and should be discounted. Alternatively, the metals data could indicate a possible area-wide up gradient source although this is not likely.

4.2.3 Subsurface Soil Samples

Table 2 provides a summary of the analytical results for the samples collected from the sub-soil borings. Analytical results were compared to the NYSDEC Industrial and Protection of Groundwater Soil Cleanup Objectives [6 NYCRR Subpart 375-6]. Detected VOCs are depicted on Figure 4-2.

Each soil sample was submitted for analysis of VOCs plus TICs, SVOCs plus TICs, and Metals (including mercury). All reported concentrations of metals were below the applicable criteria and SVOCs were not detected in the tested soil sample. Concentrations of PCE (at 23 mg/kg) and TCE (at 1.4 mg/kg) were detected in soils collected from beneath the GE Appliance Repair shop (SB-1) below commercial and industrial SCOs, but in excess of their NYDEC Protection of Groundwater Objectives of 1.3 mg/kg and 0.47 mg/kg, respectively. Other VOCs in SB-1, including 1,1,1-TCA and chloroform, were detected, however, were observed at concentrations below applicable standards. Elevated PID readings up to 136 ppm were observed from this borehole. VOCs were not detected in the remaining three soil boring locations.

4.2.4 Exterior and Sub-Slab Soil Vapor

Table 3 provides a summary of the analytical results for soil vapor air samples. Analytical results were compared to the New York Department of Health (NYSDOH) Soil Vapor Intrusion Guidance. The concentrations of the three (3) predominant detected VOCs are depicted on Figure 4-3. Among detected

analytes in exterior soil vapor, PCE and TCE were detected at concentrations above the NYSDOH Guidance values in each of the tested samples. PCE concentrations ranged from 890 $\mu\text{g}/\text{m}^3$ in sample SV-03 to 13,000 $\mu\text{g}/\text{m}^3$ in sample SV-05, compared to an air guideline value of 100 $\mu\text{g}/\text{m}^3$. TCE concentrations ranged from 21 $\mu\text{g}/\text{m}^3$ in sample SV-03 to 540 $\mu\text{g}/\text{m}^3$ in sample SV-04, compared to an air guideline value of 5 $\mu\text{g}/\text{m}^3$.

The Guidance values were also exceeded for PCE and TCE in three of the four sub-slab soil vapor samples (SS-02, SS-03, and SS-04), with PCE concentrations ranging from 1,100 $\mu\text{g}/\text{m}^3$ at SS-03 to 190,000 $\mu\text{g}/\text{m}^3$ at SS-04. TCE concentrations ranged from 67 $\mu\text{g}/\text{m}^3$ in sample SS-02 to 70,000 $\mu\text{g}/\text{m}^3$ in SS-04 compared to an air guideline value of 5 $\mu\text{g}/\text{m}^3$.

Other analytes were also detected in soil vapor, as shown in Table 3, however no soil vapor guidance values have been provided for these constituents.

4.2.5 Indoor Air

Table 3 provides a summary of the analytical results for Indoor Air. Analytical results were compared to the NYSDOH Soil vapor Intrusion Guidance Values. There were no exceedances of the Air Guideline Values in indoor air. PCE and TCE were detected; with PCE concentrations ranging from 3.2 $\mu\text{g}/\text{m}^3$ in sample IA-04 to 4.9 $\mu\text{g}/\text{m}^3$ in sample IA-03 and TCE concentrations ranged from 0.4 $\mu\text{g}/\text{m}^3$ in sample IA-02 to 0.9 $\mu\text{g}/\text{m}^3$ in sample IA-04.

Other analytes were also detected in indoor air, as shown in Table 3, however no air guidance values have been developed for these constituents.

Section 5

Summary

A Site Characterization (SC) was performed on behalf of General Electric Company (GE) in 2011 by Brown and Caldwell (BC). The findings of the SC report are briefly summarized as follows.

Site Setting

- The commercial/industrial Site is located at 86 Cleveland Avenue in the Hamlet of Bay Shore, Town of Islip, Suffolk County, New York.
- The 1.84 acre site includes a 47,000 s.f. building. The grounds include asphalt-paved parking and driveway areas and landscaped areas.
- The Site was developed around 1966 for industrial use and has had multiple owners and up to the present.
- The southeastern most portion of the building is currently occupied by a GE appliance repair shop. Remaining areas of the building are unoccupied and vacant.
- The Site is located in an area with a dense concentration of industrial and commercial properties with known usages of hazardous materials.
- Several upgradient properties serve as potential sources of contamination that could impact groundwater quality migrating under the Site, including the Diamond Auto Service and the Poly Scientific sites.
- The area is served by municipal water.

Site Geology and Hydrogeology

- The Site is directly underlain by the Upper Glacial aquifer consisting of coarse to fine sands with varying amounts of gravel to a depth of at least 90 feet.
- The depth to groundwater is approximately 10 feet.
- Groundwater flows to the south-southeast toward the regional discharge area represented by Great South Bay.

Historic Site Operations

- Prior to 1966 – Undeveloped Site
- 1966 to 1976 - Standard Precast Products
- 1976 – 1983 – Purex/Baron Blakeslee – Solvent/chemical storage, repacking, and distribution.
- 1983-1985 – Town of Islip Industrial Development Agency – Inactive
- 1985-1994 – Aircraft Turbine Services – Aircraft Engine Maintenance Facility
- 1994-1997 – UNC/Greenwich Air Services - Repair and testing of aircraft accessory equipment.
- 1997 – GE purchases Greenwich Air Services.
- Current Use – General Electric – GE appliance repair shop in a small portion of the building. Remaining areas of the facility are inactive and vacant.

Environmental History

- Groundwater was found to be impacted with chlorinated VOCs including TCA, 1,2-TCE, PCE, TCE, 1,1-DCE, 1,1-DCA in 1982.
- The Suffolk County Department of Health Services (SCDOH) and Baron-Blakeslee entered into a formal Order on Consent (IW-82-71) on January 18, 1983 to address site contamination.
- Off-Site impacted groundwater was observed in 1983 including in the production well at the adjacent Redi-Mix site. Potential Off-site sources of chlorinated VOCs in the deeper aquifer were cited for this contamination.
- An on-Site groundwater extraction and treatment system was operated at 100 gpm starting in 1984.
- In 1988 it was determined that contaminants had moved past the recovery well influence. Additional off-site groundwater extraction was proposed but was never implemented given off-site logistical concerns.
- Groundwater extraction and treatment was discontinued in 1989 with the permission of SCDOH in recognition that Site conditions of the 1983 Order had been met.
- NYDEC becomes involved in 2008 to evaluate the potential threat to the public, if any, via soil vapor or contaminated groundwater migration as a result of the former solvent repackaging (Purex/Baron Blakeslee) facility.
- An Order on Consent and Administrative Settlement “Order”) was entered into between DEC and GE on September 27, 2010 to conduct a Site Characterization of the property to determine whether the Site posed a significant threat to public health and the environment and needed to be reclassified on the DEC Registry.
- A Site Characterization Work Plan (SCWP) was approved by DEC to assess site conditions on June 9, 2011.
- GE performed the SC work Plan in 2011.

Potential Off-Site Receptors

- Surface Water- There is no likely impact to ecological receptors as wetlands and surface water bodies are not located on or in proximity to the site.
- Groundwater receptors are unlikely given the fact that a public water supply is available in the vicinity of the site. The public water supply wells serving the system are located in the deep Magothy aquifer and the data do not reflect an impact at such levels. The adjacent Redi-Mix site is reported not to utilize the public water system so that commercial site may be an exception to the use of public water.
- Off-Site vapor intrusion (VI) conditions are unlikely as a result of the low concentrations of contaminants in groundwater at Site.

Site Characterization Investigation

- Site Characterization (SC) was performed in accordance with the approved “Site Characterization Work Plan, Former Baron Blakeslee Potential Site (P-Site) Site No.152204”, (Environmental Resources Management, April 22, 2011).
- The objectives of the Site Characterization (SC) were to determine the nature of remaining contamination attributable to the former solvent storage and distribution operations in on-Site soils and groundwater; to evaluate soil vapor in interior and exterior locations and indoor air conditions within the existing building, and to assist DEC with evaluating whether the Site should be listed on the DEC Registry. Vertical profile groundwater sampling was performed in 10 boreholes throughout

the site. Samples were collected at ten-foot intervals from the water table (7 to 12 ft bgs) to approximately 60 to 64 ft bgs.

- Relatively low levels of VOCs (BTEX and chlorinated VOCs) and BEHP were detected in shallow soils with decreasing concentrations at depth.
- Characterization of metals in groundwater samples was indeterminate given the elevated results that were apparently impacted as a result of sampling-derived suspended solids.

Soil Borings

- Sub-slab borings were drilled at four locations within the building for the collection of shallow (five foot) soil samples.
- Levels of several chlorinated VOCs were detected in subsurface soils at concentrations that slightly exceeded applicable criteria.

Exterior Soil Vapor Samples

- Soil shallow soil vapor borings were drilled at locations beneath the parking lot slab.
- PCE and TCE were detected at concentrations exceeding applicable indoor air criteria in each of the tested exterior soil vapor samples.

Sub-Slab Soil Vapor Samples

- Sub-slab soil vapor samples were collected at four locations within the existing building.
- PCE and TCE exceeded NYSDOH Soil vapor Intrusion guidance in three of the four sub-slab soil vapor samples.

Indoor Air

- Indoor air samples were co-located with the four interior sub-slab soil vapor locations.
- Low levels of PCE and TCE were detected in indoor at concentration less than NYSDOH guidance.

Section 6

Conclusions and Recommendations

Brown & Caldwell performed a Site Characterization Study on the property located at 86 Cleveland Avenue in the Hamlet of Bayshore, Town of Islip, Suffolk County, New York in accordance with the Site Characterization Work Plan approved by NYSDEC on June 9, 2011.

6.1 Environmental Media

Technical conclusions and recommendations for each medium derived from the 2011 Site Characterization study are presented below along with recommendations.

Groundwater

VOCs in Groundwater

Historic, onsite groundwater remediation has served to significantly reduce the mass and concentrations of VOCs (primarily PCE and degradation products) in groundwater to levels that were acceptable to the SCDOH as documented by letters authorizing the system to be turned off and permits closed out in 1988.

Current (2011) groundwater samples of four (4) vertical profile boreholes confirm remedial success of the groundwater treatment system with only trace concentrations of VOCs observed in shallow groundwater. Figure 4-1 reflects the trace detection, in 3 locations, of a limited number of compounds, including BTEX and bis-2-ethylhexylphthalate (BEHP).

Recommendation: Additional investigation and/or remediation of groundwater beneath the GE Property for VOCs is not warranted. The property is in a highly industrialized area, a public water supply is available to the area, the detection of residual VOCs are at trace, single digit parts per billion concentrations, and there are no apparent receptors to the groundwater on the property. There is no risk of exposure by ingestion to the groundwater.

Metals in Groundwater

The approved work plan required the groundwater samples to be unfiltered. The borehole groundwater samples, however, contained high levels of suspended solids (i.e., high turbidity), and as expected, elevated concentrations of metals were detected in most of the unfiltered samples. Because of the sampling-derived suspended solids (i.e., high turbidity), it is likely that the detection of metals were elevated with respect to representative dissolved groundwater concentrations. As a result, the metals concentrations are not considered to be representative of Site-related groundwater conditions.

Recommendation: No additional investigation and/or investigation of groundwater is warranted for the reasons stated above for VOCs in groundwater. The unfiltered metals data is not considered reflective of actual water quality. Given the fact that none of the tested soil samples from the well installation exceed the applicable soil cleanup objectives for the protection of groundwater, no further action is needed for site groundwater.

Soil

VOCs in Soil

Current VOC results for soil collected beneath the building sub-slab (0-5 feet bgs) indicate that soils were likely impacted by former site operations. Specifically, soil data collected beneath what is now the appliance repair shop exceed soil cleanup objectives for both PCE and TCE for the protection of groundwater. Protection of Public Health - Industrial soil cleanup objective criteria are not exceeded.

Recommendation: Rather than postpone decision-making with regard to the need for a mitigation or abatement program to address sub-slab soils, the property owner has decided to proceed with the installation of a sub-slab depressurization system. This is further discussed below.

Metals in Soil

The current metals analytical results from soil collected beneath the building slab (0-5 feet bgs) do not exceed the applicable soil cleanup objectives either for the protection of groundwater or for the protection of public health.

Recommendation: Further investigation and/or remediation of the soils for metals is not warranted given the fact that none of the tested soil samples exceed the applicable soil cleanup objectives either for the protection of groundwater or for the protection of public health.

Soil Vapor

Current soil vapor monitoring beneath the building slab has detected elevated concentrations of PCE and TCE in several locations at concentrations exceeding NYSDOH Soil vapor Intrusion Air Guidelines. The soil vapor data are likely indicative of off-gassing from residually impacted soils beneath the slab in areas of former Baron Blakeslee operations.

Recommendation: Although additional delineation of soil vapor data beneath the building slab could be undertaken, the principal purpose of such additional sampling would ultimately be for the design of a mitigation system. As such, in light of the decision by the property owner to design and install a sub-slab depressurization mitigation system under the entire building on the property, no further sub-slab soil delineation is necessary to select the appropriate mitigation system.

Indoor Air

Current indoor air samples detected low concentrations of several VOCs including PCE, TCA and their degradation products; however, their concentrations are each below NYSDOH guidelines and present no significant risk to indoor air at this time. Although the concentrations observed in indoor air were not above standards and do not pose an immediate risk, the property owner has decided to proceed with the design and installation of a sub-slab depressurization system to prevent potential soil vapor intrusion.

Recommendation: Installation of a sub-slab depressurization system to prevent and potential soil vapor intrusion.

6.2 Remediations for Vapor Intrusion

The Site Characterization Study and the associated review of prior investigation data and remedial actions provide a technically sound foundation to evaluate whether the property poses a significant threat to the environment or public health. This evaluation identified vapor intrusion as the only potential current and/or future exposure pathway as a result of residual contaminants observed at the property.

The property owner has authorized and scheduled the installation of a sub-slab depressurization system ("SSDS") to address the vapor intrusion exposure pathway. The SSDS is scheduled to be installed in May 2012 and to be operational no later than June 1, 2012. Once the system is in operation, the property owner will provide confirmation to the NYS DEC that the system has been installed and is operational. The system should be operated and maintained as long as the buildings are occupied and sub slab vapor exceeds State Guidelines, or unless permission is provided by the Department of Health, upon application by the property owner, to discontinue the operation of the system. A deed restriction should be filed by the property owner reflecting the requirement of the SSDS.

Section 7

Limitations

This report was prepared for use by General Electric and the regulatory agencies cited herein, in accordance with the standards of the environmental consulting industry at the time the services were performed and in accordance with the RI/FS CPA between General Electric and Brown and Caldwell. This Site Characterization (SC) was implemented in accordance with the approved SC Work Plan (SCWP) dated, April 22, 2011, and the requirements of the Order on Consent and Administrative Settlement (the "Order") between the New York State Department of Environmental Conservation (DEC) and General Electric Company, dated September 27, 2010.

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Woodward-Clyde Consultants, circa 1982. "Engineering Report (Engineering Report)".

Woodward-Clyde Consultants, January 1984. "Groundwater Modeling Report".

Woodward-Clyde Consultants, January 24, 1984. Status Report.

Woodward-Clyde Consultants, May 18, 1984. Letter RE: Sanitary and cooling water discharge proposed ATS facility.

Tables

TABLE 1
Groundwater Analytical Results
Site Characterization Investigation
Former Baron Blakeslee Site
Bay Shore, New York

GW Quality														
Analyte Group:														
1-BTEX/Volatiles														
Analyte Name	Class GA Groundwater Criteria NYS Part 703(1) Standard	Federal MCL	Units	Location:	GWP-1	GWP-1	GWP-1	GWP-1	GWP-1	GWP-1	GWP-1	GWP-2	GWP-2	GWP-2
				SampleName:	GWP-1-14-16	GWP-1-24-26	GWP-1-34-36	GWP-1-44-46	GWP-1-54-56	GWP-1-62-64	GWP-2-8-10	GWP-2-18-20	GWP-2-28-30	DUP-071111
Benzene	1	5	UG/L		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	5	1000	UG/L		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes, total	5	10000	UG/L		2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Analyte Group:														
1-Volatiles														
Analyte Name	Class GA Groundwater Criteria NYS Part 703(1) Standard	Federal MCL	Units	Location:	GWP-1	GWP-1	GWP-1	GWP-1	GWP-1	GWP-1	GWP-1	GWP-2	GWP-2	GWP-2
				SampleName:	GWP-1-14-16	GWP-1-24-26	GWP-1-34-36	GWP-1-44-46	GWP-1-54-56	GWP-1-62-64	GWP-2-8-10	GWP-2-18-20	GWP-2-28-30	DUP-071111
1,1,1-Trichloroethane	5	200	UG/L		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	NE	UG/L		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	70	UG/L		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
tert-Butyl methyl ether (MTBE)	NE	NE	UG/L		1 U	8.7	3.7	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene (PCE)	5	5	UG/L		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene (TCE)	5	5	UG/L		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Analyte Group:														
2-SVOCs														
Analyte Name	Class GA Groundwater Criteria NYS Part 703(1) Standard	Federal MCL	Units	Location:	GWP-1	GWP-1	GWP-1	GWP-1	GWP-1	GWP-1	GWP-1	GWP-2	GWP-2	GWP-2
				SampleName:	GWP-1-14-16	GWP-1-24-26	GWP-1-34-36	GWP-1-44-46	GWP-1-54-56	GWP-1-62-64	GWP-2-8-10	GWP-2-18-20	GWP-2-28-30	DUP-071111
bis(2-Ethylhexyl)phthalate	5	6	UG/L		5.4 U	NA	NA	NA	NA	NA	4.8 U	NA	NA	NA
Analyte Group:														
5-Metals														
Analyte Name	Class GA Groundwater Criteria NYS Part 703(1) Standard	Federal MCL	Units	Location:	GWP-1	GWP-1	GWP-1	GWP-1	GWP-1	GWP-1	GWP-1	GWP-2	GWP-2	GWP-2
				SampleName:	GWP-1-14-16	GWP-1-24-26	GWP-1-34-36	GWP-1-44-46	GWP-1-54-56	GWP-1-62-64	GWP-2-8-10	GWP-2-18-20	GWP-2-28-30	DUP-071111
Aluminum	NE	200	UG/L		*13100	*7600	*5500	*10400	*4600	*98300	*29300	*49700	*23100	*24100
Arsenic	25	10	UG/L		10 U	10 U	10 U	10 U	10 U	*74	10 U	*36	*27	*27
Barium	1000	2000	UG/L		210	180	220	170	150	920	120	240	480	530
Beryllium	NE	4	UG/L		2 U	2 U	2 U	2 U	2 U	*7.2	2 U	2.5	2 UJ	2.1 J
Cadmium	5	5	UG/L		1 U	1 U	1 U	1 U	1 U	1.7	1 U	1 U	1.4	1.5
Calcium	NE	NE	UG/L		62800	25600	29200	19100	8900	23500	38500	41100	40300	41300
Chromium	50	100	UG/L		*270	*140	*62	*270	*96	*2500	*110	*260	*690	*760

TABLE 1
Groundwater Analytical Results
Site Characterization Investigation
Former Baron Blakeslee Site
Bay Shore, New York

Analyte Group:		Class GA Groundwater Criteria NYS Part 703(1) Standard	Federal MCL	Units	5-Metals										
Analyte Name					Location:	GWP-1	GWP-1	GWP-1	GWP-1	GWP-1	GWP-1	GWP-2	GWP-2	GWP-2	GWP-2
					SampleName:	GWP-1-14-16	GWP-1-24-26	GWP-1-34-36	GWP-1-44-46	GWP-1-54-56	GWP-1-62-64	GWP-2-8-10	GWP-2-18-20	GWP-2-28-30	DUP-071111
Cobalt		5	NE	UG/L		*30	*17	*9.6	*11	*6.3	*120	*7	*47	*30	*33
Copper		200	1300	UG/L		140	55	21	67	19	*730	24	99	*210	*240
Iron		300	300	UG/L		*43100	*25600	*12800	*45100	*12700	*400000	*18800	*85400	*97700	*106000
Lead		25	15	UG/L		*190	*30	14	*19	9	*220	*18	*51	*63	*64
Magnesium		NE	NE	UG/L		7500	3300	4000	3800	2400	17600	4700	8200	5200	5200
Manganese		300	50	UG/L		*5700	*1900	*1100	*1300	*910	*10800	*590	*7400	*12300	*13600
Mercury		0.7	2	UG/L		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.28	0.2 U	0.2 U
Nickel		100	NE	UG/L		*120	40	23	73	36	*560	51	*120	*170	*190
Potassium		NE	NE	UG/L		6500	6200	18000	15100	16800	22200	5900	12100	13300	13600
Sodium		20000	NE	UG/L		*26000	*72500	*89600	*51900	*53100	*59600	*73300	*45300	*52200	*51500
Vanadium		14	NE	UG/L		*26	*14	12	*25	11	*260	*33	*88	*46	*46
Zinc		NE	5000	UG/L		330	72	28	150	27	1500	54	150	220	220

TABLE 1
Groundwater Analytical Results
Site Characterization Investigation
Former Baron Blakeslee Site
Bay Shore, New York

GW Quality													
Analyte Group: 1-BTEX/Volatiles		Class GA Groundwater Criteria NYS Part 703(1) Standard	Federal MCL		Location:	GWP-2	GWP-2	GWP-2	GWP-3	GWP-3	GWP-3	GWP-3	GWP-3
Analyte Name				Units	SampleName:	GWP-2-38-40	GWP-2-48-50	GWP-2-58-60	GWP-3-9-11	GWP-3-19-21	GWP-3-29-31	GWP-3-39-41	GWP-3-49-51
						GWP-3-59-61							
Benzene		1	5	UG/L		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene		5	1000	UG/L		1 U	1 U	1 U	1 U	1	1 U	1 U	1 U
Xylenes, total		5	10000	UG/L		2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Analyte Group: 1-Volatiles		Class GA Groundwater Criteria NYS Part 703(1) Standard	Federal MCL		Location:	GWP-2	GWP-2	GWP-2	GWP-3	GWP-3	GWP-3	GWP-3	GWP-3
Analyte Name				Units	SampleName:	GWP-2-38-40	GWP-2-48-50	GWP-2-58-60	GWP-3-9-11	GWP-3-19-21	GWP-3-29-31	GWP-3-39-41	GWP-3-49-51
						GWP-3-59-61							
1,1,1-Trichloroethane		5	200	UG/L		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform		7	NE	UG/L		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene		5	70	UG/L		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
tert-Butyl methyl ether (MTBE)		NE	NE	UG/L		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene (PCE)		5	5	UG/L		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene (TCE)		5	5	UG/L		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Analyte Group: 2-SVOCs		Class GA Groundwater Criteria NYS Part 703(1) Standard	Federal MCL		Location:	GWP-2	GWP-2	GWP-2	GWP-3	GWP-3	GWP-3	GWP-3	GWP-3
Analyte Name				Units	SampleName:	GWP-2-38-40	GWP-2-48-50	GWP-2-58-60	GWP-3-9-11	GWP-3-19-21	GWP-3-29-31	GWP-3-39-41	GWP-3-49-51
						GWP-3-59-61							
bis(2-Ethylhexyl)phthalate		5	6	UG/L		NA	NA	NA	27 U	NA	NA	NA	NA
Analyte Group: 5-Metals		Class GA Groundwater Criteria NYS Part 703(1) Standard	Federal MCL		Location:	GWP-2	GWP-2	GWP-2	GWP-3	GWP-3	GWP-3	GWP-3	GWP-3
Analyte Name				Units	SampleName:	GWP-2-38-40	GWP-2-48-50	GWP-2-58-60	GWP-3-9-11	GWP-3-19-21	GWP-3-29-31	GWP-3-39-41	GWP-3-49-51
						GWP-3-59-61							
Aluminum		NE	200	UG/L		*11000	*17200 J	*39500	*48200	*95000	*12900	*15800	*12300
Arsenic		25	10	UG/L		10 U	*13	*25	*23	*37	*12	*10	10 U
Barium		1000	2000	UG/L		220	260	750	180	400	650	680	260
Beryllium		NE	4	UG/L		2 U	2 U	2.9	2.7	*4.4	2 U	2 U	2 U
Cadmium		5	5	UG/L		1 U	1 U	1.6	4.9	1.6	1.8	1	1 U
Calcium		NE	NE	UG/L		26600	17400	20000	41500	91800	56700	34900	21600
Chromium		50	100	UG/L		*210	*350	*1300	*470	*530	*200	*100	*230

TABLE 1
Groundwater Analytical Results
Site Characterization Investigation
Former Baron Blakeslee Site
Bay Shore, New York

Analyte Group:		Class GA Groundwater Criteria NYS Part 703(1) Standard	Federal MCL	Units	Location:	GWP-2	GWP-2	GWP-2	GWP-3	GWP-3	GWP-3	GWP-3	GWP-3	GWP-3			
5-Metals					SampleName:	GWP-2-38-40	GWP-2-48-50	GWP-2-58-60	GWP-3-9-11	GWP-3-19-21	GWP-3-29-31	GWP-3-39-41	GWP-3-49-51	GWP-3-59-61			
Analyte Name																	
Cobalt		5	NE	UG/L		*11	*17	*52	*20	*66	*12	*19	*15	*59			
Copper		200	1300	UG/L		60	94	*380	150	*210	41	34	37	*430			
Iron		300	300	UG/L		*31800	*55200	*185000	*78000	*142000	*21900	*23900	*27800	*218000			
Lead		25	15	UG/L		*27	*36	*98	*57	*100	*20	*26	*21	*110			
Magnesium		NE	NE	UG/L		4600	4800	7200	7700	17100	7200	5900	5300	9600			
Manganese		300	50	UG/L		*4100	*4300	*13300	*490	*15900	*10800	*10300	*2000	*15900			
Mercury		0.7	2	UG/L		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U			
Nickel		100	NE	UG/L		*100	*140	*310	*180	*250	*130	73	*110	*350			
Potassium		NE	NE	UG/L		15800	24400	31800	6300	15600	14100	17300	17900	23000			
Sodium		20000	NE	UG/L		*52900	*52000	*55900	11100	*64100	*60800	*62400	*59200	*53100			
Vanadium		14	NE	UG/L		*22	*40	*79	*180	*120	*29	*40	*32	*120			
Zinc		NE	5000	UG/L		60	110	470	170	210	62	62	50	1100			

TABLE 1
Groundwater Analytical Results
Site Characterization Investigation
Former Baron Blakeslee Site
Bay Shore, New York

GW Quality															
Analyte Group:		Class GA Groundwater Criteria NYS Part 703(1) Standard	Federal MCL	Units	Location:	GWP-4	GWP-4	GWP-4	GWP-4	GWP-4	GWP-4	GWP-5	GWP-5	GWP-5	GWP-5
1-BTEX/Volatiles					SampleName:	GWP-4-8-10	GWP-4-18-20	GWP-4-28-30	GWP-4-38-40	GWP-4-48-50	GWP-4-58-60	GWP-5-8-10	GWP-5-18-20	GWP-5-28-30	GWP-5-38-40
Analyte Name															
Benzene		1	5	UG/L		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene		5	1000	UG/L		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes, total		5	10000	UG/L		2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Analyte Group:		Class GA Groundwater Criteria NYS Part 703(1) Standard	Federal MCL	Units	Location:	GWP-4	GWP-4	GWP-4	GWP-4	GWP-4	GWP-4	GWP-5	GWP-5	GWP-5	GWP-5
1-Volatiles					SampleName:	GWP-4-8-10	GWP-4-18-20	GWP-4-28-30	GWP-4-38-40	GWP-4-48-50	GWP-4-58-60	GWP-5-8-10	GWP-5-18-20	GWP-5-28-30	GWP-5-38-40
Analyte Name															
1,1,1-Trichloroethane		5	200	UG/L		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform		7	NE	UG/L		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene		5	70	UG/L		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
tert-Butyl methyl ether (MTBE)		NE	NE	UG/L		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene (PCE)		5	5	UG/L		1.1	1 U	1 U	1 U	1 U	1 U	1.8	1 U	1 U	1 U
Trichloroethene (TCE)		5	5	UG/L		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Analyte Group:		Class GA Groundwater Criteria NYS Part 703(1) Standard	Federal MCL	Units	Location:	GWP-4	GWP-4	GWP-4	GWP-4	GWP-4	GWP-4	GWP-5	GWP-5	GWP-5	GWP-5
2-SVOCs					SampleName:	GWP-4-8-10	GWP-4-18-20	GWP-4-28-30	GWP-4-38-40	GWP-4-48-50	GWP-4-58-60	GWP-5-8-10	GWP-5-18-20	GWP-5-28-30	GWP-5-38-40
Analyte Name															
bis(2-Ethylhexyl)phthalate		5	6	UG/L		*13	NA	NA	NA	NA	NA	5 U	NA	NA	NA
Analyte Group:		Class GA Groundwater Criteria NYS Part 703(1) Standard	Federal MCL	Units	Location:	GWP-4	GWP-4	GWP-4	GWP-4	GWP-4	GWP-4	GWP-5	GWP-5	GWP-5	GWP-5
5-Metals					SampleName:	GWP-4-8-10	GWP-4-18-20	GWP-4-28-30	GWP-4-38-40	GWP-4-48-50	GWP-4-58-60	GWP-5-8-10	GWP-5-18-20	GWP-5-28-30	GWP-5-38-40
Analyte Name															
Aluminum		NE	200	UG/L		*17300	*20300	*9900	*8400	*15700	*19300	*8600	*39600	*6800	*13700
Arsenic		25	10	UG/L		10 U	*20	10 U	*10	*15	*13	10 U	*25	10 U	*11
Barium		1000	2000	UG/L		54	110	260	330	140	170	68	200	180	270
Beryllium		NE	4	UG/L		2 U	2 U	2 U	2 U	2 U	2 U	2 U	2.5	2 U	2 U
Cadmium		5	5	UG/L		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Calcium		NE	NE	UG/L		84100	37000	24600	20000	7800	13700	114000	29300	17900	19600
Chromium		50	100	UG/L		*530	*350	*110	*620	*280	*450	*130	*640	*270	*340

TABLE 1
Groundwater Analytical Results
Site Characterization Investigation
Former Baron Blakeslee Site
Bay Shore, New York

Analyte Group: 5-Metals		Class GA Groundwater Criteria NYS Part 703(1) Standard	Federal MCL	Units	Location: SampleName:	GWP-4 GWP-4-8-10	GWP-4 GWP-4-18-20	GWP-4 GWP-4-28-30	GWP-4 GWP-4-38-40	GWP-4 GWP-4-48-50	GWP-4 GWP-4-58-60	GWP-5 GWP-5-8-10	GWP-5 GWP-5-18-20	GWP-5 GWP-5-28-30	GWP-5 GWP-5-38-40
Analyte Name															
Cobalt		5	NE	UG/L		*11	*13	*12	*12	*13	*15	4	*17	*7.7	*13
Copper		200	1300	UG/L		48	80	37	66	52	110	19	120	31	59
Iron		300	300	UG/L		*31000	*58400	*28900	*42500	*45000	*63000	*8800	*75900	*19000	*40400
Lead		25	15	UG/L		*23	*34	*16	*16	*30	*31	6.8	*54	*15	*25
Magnesium		NE	NE	UG/L		9700	7200	5300	3900	3300	4500	15000	7200	3600	5100
Manganese		300	50	UG/L		*280	*750	*2400	*1000	*1000	*1400	*730	*1200	*1100	*1300
Mercury		0.7	2	UG/L		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel		100	NE	UG/L		*250	*140	47	*280	*120	*150	71	*330	*140	*140
Potassium		NE	NE	UG/L		7100	8800	12900	15000	5900	5700	12000	14000	13900	18000
Sodium		20000	NE	UG/L		*29400	*25400	*30300	*28400	7700	9900	*38400	*57200	*47800	*44800
Vanadium		14	NE	UG/L		*60	*60	*22	*24	*48	*44	*15	*89	*18	*33
Zinc		NE	5000	UG/L		62	62	41	160	51	120	22	120	27	56

TABLE 1
Groundwater Analytical Results
Site Characterization Investigation
Former Baron Blakeslee Site
Bay Shore, New York

GW Quality														
Analyte Group:														
1-BTEX/Volatiles														
Analyte Name	Class GA Groundwater Criteria NYS Part 703(1) Standard	Federal MCL	Units	Location:	GWP-5	GWP-5	GWP-5	GWP-6	GWP-6	GWP-6	GWP-6	GWP-6	GWP-6	GWP-6
				SampleName:	GWP-5-48-50	DUP-071411-1	GWP-5-58-60	GWP-6-8-10	DUP-072211	GWP-6-18-20	GWP-6-28-30	GWP-6-38-40	GWP-6-48-50	GWP-6-58-60
Benzene	1	5	UG/L		1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 UJ
Toluene	5	1000	UG/L		1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 UJ
Xylenes, total	5	10000	UG/L		2 U	2 U	2 U	2 U	NA	2 U	2 U	2 U	2 U	2 UJ
Analyte Group:														
1-Volatiles														
Analyte Name	Class GA Groundwater Criteria NYS Part 703(1) Standard	Federal MCL	Units	Location:	GWP-5	GWP-5	GWP-5	GWP-6	GWP-6	GWP-6	GWP-6	GWP-6	GWP-6	GWP-6
				SampleName:	GWP-5-48-50	DUP-071411-1	GWP-5-58-60	GWP-6-8-10	DUP-072211	GWP-6-18-20	GWP-6-28-30	GWP-6-38-40	GWP-6-48-50	GWP-6-58-60
1,1,1-Trichloroethane	5	200	UG/L		1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 UJ
Chloroform	7	NE	UG/L		1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 UJ
cis-1,2-Dichloroethene	5	70	UG/L		1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 UJ
tert-Butyl methyl ether (MTBE)	NE	NE	UG/L		1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 UJ
Tetrachloroethene (PCE)	5	5	UG/L		1 U	1 U	1 U	1.7	NA	1 U	1 U	1 U	1 U	1 UJ
Trichloroethene (TCE)	5	5	UG/L		1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 UJ
Analyte Group:														
2-SVOCs														
Analyte Name	Class GA Groundwater Criteria NYS Part 703(1) Standard	Federal MCL	Units	Location:	GWP-5	GWP-5	GWP-5	GWP-6	GWP-6	GWP-6	GWP-6	GWP-6	GWP-6	GWP-6
				SampleName:	GWP-5-48-50	DUP-071411-1	GWP-5-58-60	GWP-6-8-10	DUP-072211	GWP-6-18-20	GWP-6-28-30	GWP-6-38-40	GWP-6-48-50	GWP-6-58-60
bis(2-Ethylhexyl)phthalate	5	6	UG/L		NA	NA	NA	*6	6.1 U	NA	NA	NA	NA	NA
Analyte Group:														
5-Metals														
Analyte Name	Class GA Groundwater Criteria NYS Part 703(1) Standard	Federal MCL	Units	Location:	GWP-5	GWP-5	GWP-5	GWP-6	GWP-6	GWP-6	GWP-6	GWP-6	GWP-6	GWP-6
				SampleName:	GWP-5-48-50	DUP-071411-1	GWP-5-58-60	GWP-6-8-10	DUP-072211	GWP-6-18-20	GWP-6-28-30	GWP-6-38-40	GWP-6-48-50	GWP-6-58-60
Aluminum	NE	200	UG/L		*29400	*24900	*43400	*5900	NA	*12500	*23900	*23900	*116000	*185000
Arsenic	25	10	UG/L		*26	*21	*29	10 U	NA	10 U	*16	*14	*71	*110 J
Barium	1000	2000	UG/L		340	280	370	28	NA	78	230	360	820	*1100 J
Beryllium	NE	4	UG/L		2.6	2.3	3.5	2 U	NA	2 U	2 U	2 U	*7.4	*12
Cadmium	5	5	UG/L		1 U	1 U	1 U	1 U	NA	1.2	1.9	1 U	2.9	4.1
Calcium	NE	NE	UG/L		23400	20300	15200	28100	NA	56500	51400	18100	36700	29900 J
Chromium	50	100	UG/L		*570	*430	*870	*150	NA	*310	*530	*440	*2300	*3100 J

TABLE 1
Groundwater Analytical Results
Site Characterization Investigation
Former Baron Blakeslee Site
Bay Shore, New York

Analyte Group:		Class GA Groundwater Criteria NYS Part 703(1) Standard	Federal MCL	Units	5-Metals										
Analyte Name	Location:				GWP-5	GWP-5	GWP-5	GWP-6	GWP-6	GWP-6	GWP-6	GWP-6	GWP-6	GWP-6	
	SampleName:				GWP-5-48-50	DUP-071411-1	GWP-5-58-60	GWP-6-8-10	DUP-072211	GWP-6-18-20	GWP-6-28-30	GWP-6-38-40	GWP-6-48-50	GWP-6-58-60	
Cobalt	5	NE	UG/L	*26	*21	*34	4 U	NA	*8.5	*22	*22	*90	*140 J		
Copper	200	1300	UG/L	140	99	*210	20	NA	39	93	90	*520	*800		
Iron	300	300	UG/L	*94100	*72600	*142000	*7000	NA	*19900	*59700	*61300	*353000	*610000		
Lead	25	15	UG/L	*51	*43	*67	8.6	NA	*27	*53	*43	*160	*300 J		
Magnesium	NE	NE	UG/L	8100	7200	8600	2700	NA	7500	10200	5800	20200	31700 J		
Manganese	300	50	UG/L	*2800	*2100	*3400	*86	NA	*450	*1400	*1600	*5300	*8000 J		
Mercury	0.7	2	UG/L	0.2 U	0.2 U	0.2 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U		
Nickel	100	NE	UG/L	*190	*160	*240	73	NA	*160	*210	*170	*590	*750 J		
Potassium	NE	NE	UG/L	15100	13300	11600 J	3100	NA	5200	8700	19000	28700	29100 J		
Sodium	20000	NE	UG/L	*48400	*44900	*49800	6100	NA	*35700	*28000	*26200	*28100	18600 J		
Vanadium	14	NE	UG/L	*84	*75	*110	*15	NA	*27	*60	*55	*300	*490 J		
Zinc	NE	5000	UG/L	120	91	340	54	NA	200	380	160	1000	1600		

TABLE 1
Groundwater Analytical Results
Site Characterization Investigation
Former Baron Blakeslee Site
Bay Shore, New York

GW Quality														
Analyte Group:		Class GA Groundwater Criteria NYS Part 703(1) Standard	Federal MCL	Units	Location:	GWP-7	GWP-7	GWP-7	GWP-7	GWP-7	GWP-7	GWP-8	GWP-8	GWP-8
1-BTEX/Volatiles					SampleName:	GWP-7-8-10	GWP-7-18-20	GWP-7-28-30	GWP-7-38-40	GWP-7-48-50	GWP-7-58-60	GWP-8-8-10	GWP-8-18-20	GWP-8-28-30
Analyte Name														
Benzene		1	5	UG/L		*1.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene		5	1000	UG/L		*6.7	4.1	1.8	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes, total		5	10000	UG/L		2.3	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Analyte Group:		Class GA Groundwater Criteria NYS Part 703(1) Standard	Federal MCL	Units	Location:	GWP-7	GWP-7	GWP-7	GWP-7	GWP-7	GWP-7	GWP-8	GWP-8	GWP-8
1-Volatiles					SampleName:	GWP-7-8-10	GWP-7-18-20	GWP-7-28-30	GWP-7-38-40	GWP-7-48-50	GWP-7-58-60	GWP-8-8-10	GWP-8-18-20	GWP-8-28-30
Analyte Name														
1,1,1-Trichloroethane		5	200	UG/L		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform		7	NE	UG/L		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene		5	70	UG/L		1 U	1 U	1 U	1 UJ	1 U	1 U	1 U	1 U	1 U
tert-Butyl methyl ether (MTBE)		NE	NE	UG/L		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene (PCE)		5	5	UG/L		2.4	1 U	1 U	1 U	1 U	1 U	4.1	1 U	1 U
Trichloroethene (TCE)		5	5	UG/L		1.1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Analyte Group:		Class GA Groundwater Criteria NYS Part 703(1) Standard	Federal MCL	Units	Location:	GWP-7	GWP-7	GWP-7	GWP-7	GWP-7	GWP-7	GWP-8	GWP-8	GWP-8
2-SVOCs					SampleName:	GWP-7-8-10	GWP-7-18-20	GWP-7-28-30	GWP-7-38-40	GWP-7-48-50	GWP-7-58-60	GWP-8-8-10	GWP-8-18-20	GWP-8-28-30
Analyte Name														
bis(2-Ethylhexyl)phthalate		5	6	UG/L		4.8 U	NA	NA	NA	NA	NA	5.1 U	NA	NA
Analyte Group:		Class GA Groundwater Criteria NYS Part 703(1) Standard	Federal MCL	Units	Location:	GWP-7	GWP-7	GWP-7	GWP-7	GWP-7	GWP-7	GWP-8	GWP-8	GWP-8
5-Metals					SampleName:	GWP-7-8-10	GWP-7-18-20	GWP-7-28-30	GWP-7-38-40	GWP-7-48-50	GWP-7-58-60	GWP-8-8-10	GWP-8-18-20	GWP-8-28-30
Analyte Name														
Aluminum		NE	200	UG/L		*15400	*31300	*18700	*16500 J	*18200	*23600	*41400	*24100	*62200
Arsenic		25	10	UG/L		*13	*14	*13	*10	*12	*12	*26	*26	*36
Barium		1000	2000	UG/L		100	330	440	370	480	450	260	180	510
Beryllium		NE	4	UG/L		2 U	2 U	2	2 U	2 U	2.2	*4.7	2 U	*4.5
Cadmium		5	5	UG/L		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1.3
Calcium		NE	NE	UG/L		46600	57900	25000	25000	24400	33700	26100	86600	110000
Chromium		50	100	UG/L		*160	*370	*1000	*470	*820	*750	*330	*470	*1200

TABLE 1
Groundwater Analytical Results
Site Characterization Investigation
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Analyte Group:		Class GA Groundwater Criteria NYS Part 703(1) Standard	Federal MCL	Units	Location:	GWP-7	GWP-7	GWP-7	GWP-7	GWP-7	GWP-7	GWP-8	GWP-8	GWP-8	
5-Metals															
Analyte Name					SampleName:	GWP-7-8-10	GWP-7-18-20	GWP-7-28-30	GWP-7-38-40	GWP-7-48-50	GWP-7-58-60	GWP-8-8-10	GWP-8-18-20	GWP-8-28-30	
Cobalt	5	NE	UG/L	*18	*37	*50	*29	*43	*49	*70	*37	*73			
Copper	200	1300	UG/L	46	130	*280	120	*200	*200	170	70 UJ	*370			
Iron	300	300	UG/L	*30800	*75700	*134000	*70400	*115000	*114000	*104000	*64600	*223000			
Lead	25	15	UG/L	*25	*89	*100	*58	*80	*75	*130	*44	*120			
Magnesium	NE	NE	UG/L	6000	7600	4200	4300	4800	6400	6800	7700	14800			
Manganese	300	50	UG/L	*970	*3500	*4000	*3100	*4000	*4500	*2900	*1700	*5200			
Mercury	0.7	2	UG/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U			
Nickel	100	NE	UG/L	85	*140	*290	*120	*180	*190	*210	*240	*370			
Potassium	NE	NE	UG/L	5800	11200	14600	17900	20700	14600	5600	13600	22200			
Sodium	20000	NE	UG/L	*23000	*39900	*25700	*44900	*51600	*46700	19700	*58800	*62300			
Vanadium	14	NE	UG/L	*36	*62	*41	*35 J	*41	*51	*92	*61	*120			
Zinc	NE	5000	UG/L	43	200	360	170	220	540	110	250	1400			

TABLE 1
Groundwater Analytical Results
Site Characterization Investigation
Former Baron Blakeslee Site
Bay Shore, New York

GW Quality													
Analyte Group:		Class GA Groundwater Criteria											
1-BTEX/Volatiles		NYS Part 703(1) Standard	Federal MCL										
Analyte Name			Units	Location: SampleName:	GWP-8 GWP-8-38-40	GWP-8 GWP-8-48-50	GWP-8 GWP-8-58-60	GWP-9 GWP-9-10-12	GWP-9 GWP-9-20-22	GWP-9 GWP-9-30-32	GWP-9 GWP-9-40-42	GWP-9 GWP-9-50-52	GWP-9 GWP-9-60-62
Benzene	1	5	UG/L		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	5	1000	UG/L		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes, total	5	10000	UG/L		2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Analyte Group:		Class GA Groundwater Criteria											
1-Volatiles		NYS Part 703(1) Standard	Federal MCL										
Analyte Name			Units	Location: SampleName:	GWP-8 GWP-8-38-40	GWP-8 GWP-8-48-50	GWP-8 GWP-8-58-60	GWP-9 GWP-9-10-12	GWP-9 GWP-9-20-22	GWP-9 GWP-9-30-32	GWP-9 GWP-9-40-42	GWP-9 GWP-9-50-52	GWP-9 GWP-9-60-62
1,1,1-Trichloroethane	5	200	UG/L		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	NE	UG/L		1 U	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	70	UG/L		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
tert-Butyl methyl ether (MTBE)	NE	NE	UG/L		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene (PCE)	5	5	UG/L		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene (TCE)	5	5	UG/L		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Analyte Group:		Class GA Groundwater Criteria											
2-SVOCs		NYS Part 703(1) Standard	Federal MCL										
Analyte Name			Units	Location: SampleName:	GWP-8 GWP-8-38-40	GWP-8 GWP-8-48-50	GWP-8 GWP-8-58-60	GWP-9 GWP-9-10-12	GWP-9 GWP-9-20-22	GWP-9 GWP-9-30-32	GWP-9 GWP-9-40-42	GWP-9 GWP-9-50-52	GWP-9 GWP-9-60-62
bis(2-Ethylhexyl)phthalate	5	6	UG/L		NA	NA	NA	5 U	NA	NA	NA	NA	NA
Analyte Group:		Class GA Groundwater Criteria											
5-Metals		NYS Part 703(1) Standard	Federal MCL										
Analyte Name			Units	Location: SampleName:	GWP-8 GWP-8-38-40	GWP-8 GWP-8-48-50	GWP-8 GWP-8-58-60	GWP-9 GWP-9-10-12	GWP-9 GWP-9-20-22	GWP-9 GWP-9-30-32	GWP-9 GWP-9-40-42	GWP-9 GWP-9-50-52	GWP-9 GWP-9-60-62
Aluminum	NE	200	UG/L		*6500	*22100	*7200	*9500	*57900	*27400	*29800	*14000	*29200
Arsenic	25	10	UG/L		10 U	*12	10 U	10 U	*44	*12	*19	*10	*17
Barium	1000	2000	UG/L		130	340	150	36	240	230	280	160	260
Beryllium	NE	4	UG/L		2 U	2 U	2 U	2 U	3.4	2 U	2 U	2 U	2
Cadmium	5	5	UG/L		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Calcium	NE	NE	UG/L		16400	44600	37600	41800	61300	21600	23300	15800	16800
Chromium	50	100	UG/L		*200	*470	*200	*230	*490	*300	*370	*230	*580

TABLE 1
Groundwater Analytical Results
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Analyte Group: 5-Metals		Class GA Groundwater Criteria NYS Part 703(1) Standard	Federal MCL	Units	Location: SampleName:	GWP-8 GWP-8-38-40	GWP-8 GWP-8-48-50	GWP-8 GWP-8-58-60	GWP-9 GWP-9-10-12	GWP-9 GWP-9-20-22	GWP-9 GWP-9-30-32	GWP-9 GWP-9-40-42	GWP-9 GWP-9-50-52	GWP-9 GWP-9-60-62
Analyte Name														
Cobalt		5	NE	UG/L		*12	*26	*9.9	4.5	*61	*27	*25	*17	*27
Copper		200	1300	UG/L		24 UJ	110 UJ	22 UJ	21	150	50	100	36	120
Iron		300	300	UG/L		*17100	*75000	*18400	*8300	*121000	*43000	*81600	*31800	*86800
Lead		25	15	UG/L		*16	*50	14	6.2	*89	*35	*46	*24	*52
Magnesium		NE	NE	UG/L		3100	10500	6200	5600	10900	6100	6600	4100	6000
Manganese		300	50	UG/L		*1000	*2600	*780	*94	*5700	*2200	*2600	*1100	*2500
Mercury		0.7	2	UG/L		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel		100	NE	UG/L		98	*120	*100	*110	*290	*160	*130	*100	*190
Potassium		NE	NE	UG/L		18200	28200	5400	3800	13300	13500	16100	8500	10500
Sodium		20000	NE	UG/L		*36700	*43300	*43900	8900	*28800	*20000	17400	*20100	*22200
Vanadium		14	NE	UG/L		*18	*48	*19	*18	*150	*51	*74	*36	*73
Zinc		NE	5000	UG/L		36	200	41	19	230	100	280	52	240

TABLE 1
Groundwater Analytical Results
Site Characterization Investigation
Former Baron Blakeslee Site
Bay Shore, New York

GW Quality													
Analyte Group: 1-BTEX/Volatiles			Class GA Groundwater Criteria NYS Part 703(1) Standard	Federal MCL		Location:	GWP-10	GWP-10	GWP-10	GWP-10	GWP-10	GWP-10	
Analyte Name					Units	SampleName:	GWP-10-10-12	GWP-10-20-22	GWP-10-30-32	GWP-10-40-42	DUP-072011	GWP-10-50-52	GWP-10-60-62
Benzene	1	5	UG/L				1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	5	1000	UG/L				1 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes, total	5	10000	UG/L				2 U	2 U	2 U	2 U	2 U	2 U	2 U
Analyte Group: 1-Volatiles			Class GA Groundwater Criteria NYS Part 703(1) Standard	Federal MCL		Location:	GWP-10	GWP-10	GWP-10	GWP-10	GWP-10	GWP-10	GWP-10
Analyte Name					Units	SampleName:	GWP-10-10-12	GWP-10-20-22	GWP-10-30-32	GWP-10-40-42	DUP-072011	GWP-10-50-52	GWP-10-60-62
1,1,1-Trichloroethane	5	200	UG/L				2.6	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	NE	UG/L				1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	70	UG/L				3.5	1 U	1 U	1 U	1 U	1 U	1 U
tert-Butyl methyl ether (MTBE)	NE	NE	UG/L				1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene (PCE)	5	5	UG/L				*12	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene (TCE)	5	5	UG/L				3.3	1 U	1 U	1 U	1 U	1 U	1 U
Analyte Group: 2-SVOCs			Class GA Groundwater Criteria NYS Part 703(1) Standard	Federal MCL		Location:	GWP-10	GWP-10	GWP-10	GWP-10	GWP-10	GWP-10	GWP-10
Analyte Name					Units	SampleName:	GWP-10-10-12	GWP-10-20-22	GWP-10-30-32	GWP-10-40-42	DUP-072011	GWP-10-50-52	GWP-10-60-62
bis(2-Ethylhexyl)phthalate	5	6	UG/L				5.1 U	NA	NA	NA	NA	NA	NA
Analyte Group: 5-Metals			Class GA Groundwater Criteria NYS Part 703(1) Standard	Federal MCL		Location:	GWP-10	GWP-10	GWP-10	GWP-10	GWP-10	GWP-10	GWP-10
Analyte Name					Units	SampleName:	GWP-10-10-12	GWP-10-20-22	GWP-10-30-32	GWP-10-40-42	DUP-072011	GWP-10-50-52	GWP-10-60-62
Aluminum	NE	200	UG/L				*28800 J	*48500	*34800	*16500	*15600	*14600	*43700
Arsenic	25	10	UG/L				*15	*24	*18	*12	*12	*11	*24
Barium	1000	2000	UG/L				110	220	350	420	420	210	390
Beryllium	NE	4	UG/L				2 U	2 U	2.3	2 U	2 U	2 U	2.7
Cadmium	5	5	UG/L				1 U	1 U	1 U	1 U	1 U	1 U	1 U
Calcium	NE	NE	UG/L				41900	67000	64500	46700	44700	18600	19600
Chromium	50	100	UG/L				*110 J	*460	*360	*320	*290	*260	*480

TABLE 1
Groundwater Analytical Results
Site Characterization Investigation
Former Baron Blakeslee Site
Bay Shore, New York

<div>Analyte Group: 5-Metals</div>				Class GA Groundwater Criteria								
Analyte Name	NYS Part 703(1) Standard	Federal MCL	Units	Location:	GWP-10	GWP-10	GWP-10	GWP-10	GWP-10	GWP-10	GWP-10	GWP-10
				SampleName:	GWP-10-10-12	GWP-10-20-22	GWP-10-30-32	GWP-10-40-42	DUP-072011	GWP-10-50-52	GWP-10-60-62	
Cobalt	5	NE	UG/L		*15	*52	*45	*19	*20	*15	*48	
Copper	200	1300	UG/L		70	110	99	60	64	46	130	
Iron	300	300	UG/L		*35800 J	*72300	*66200	*45200	*43600	*42800	*99000	
Lead	25	15	UG/L		*22	*65	*51	*30	*31	*27	*71	
Magnesium	NE	NE	UG/L		7100	9300	13100	9100	8700	4900	8800	
Manganese	300	50	UG/L		*360 J	*4800	*3500	*1400	*1500	*1100	*4100	
Mercury	0.7	2	UG/L		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	
Nickel	100	NE	UG/L		69	*230	*180	*150	*140	*120	*180	
Potassium	NE	NE	UG/L		6200	11600	16100	25300	24000	12300	14800	
Sodium	20000	NE	UG/L		14100	*40600	*34900	*36800	*34800	*24100	*42900	
Vanadium	14	NE	UG/L		*60	*76	*69	*44	*41	*45	*98	
Zinc	NE	5000	UG/L		210	450	300	240	250	100 UJ	230	

Notes:
U – The analyte was analyzed for, but was not detected. Value shown is the practical quantitation limit (PQL) for the analyzed constituent.
J – Estimated concentration. The result is below the quantitation limit but above the method detection limit.
NE – Standard and/or guidance value not established.
NA – Not analyzed.
* (Red) concentrations are above New York State Class GA Groundwater Standards or Guidance values.

TABLE 2
Soil Analytical Results
Site Characterization Investigation
Former Baron Blakeslee Site
Bay Shore, New York

Soil Results:

<div>Analyte Group:</div> <div>1-Volatiles</div>			Soil Cleanup Objectives [6 NYCRR Subpart 375-6]						
Analyte Name	Protection of Public Health - Industrial Use	Protection of Groundwater	Units	Location:	SB-1	SB-2	SB-3	SB-3	SB-4
				SampleName:	SB-1-1.5-2.5	SB-2-2.5-3.5	SB-3-3-4	DUP-071911	SB-4-2-3
1,1,1-Trichloroethane	1000	0.68	MG/KG		0.16	0.0051 U	0.0052 U	0.0052 U	0.0051 U
Chloroform	700	0.37	MG/KG		0.0068	0.0051 U	0.0052 U	0.0052 U	0.0051 U
Tetrachloroethene (PCE)	300	1.3	MG/KG		*23	0.0051 U	0.0052 U	0.0052 U	0.0051 U
Trichloroethene (TCE)	400	0.47	MG/KG		*1.4	0.0051 U	0.0052 U	0.0052 U	0.0051 U

<div>Analyte Group:</div> <div>5-Metals</div>			Soil Cleanup Objectives [6 NYCRR Subpart 375-6]						
Analyte Name	Protection of Public Health - Industrial Use	Protection of Groundwater	Units	Location:	SB-1	SB-2	SB-3	SB-3	SB-4
				SampleName:	SB-1-1.5-2.5	SB-2-2.5-3.5	SB-3-3-4	DUP-071911	SB-4-2-3
Aluminum	NE	NE	MG/KG		5730	3050 J	3180	3310	1910
Arsenic	16	16	MG/KG		2.7	2.1 U	2 U	2.1 U	2.3 U
Barium	10000	820	MG/KG		26.1	9.5	10.5	14.1	3.9
Beryllium	2700	47	MG/KG		0.32	0.21 U	0.2 U	0.21	0.23 U
Calcium	NE	NE	MG/KG		39400	140 J	9850	16800	434
Chromium	NE	19	MG/KG		11.9	4.1	5.7	8.3	3.9
Cobalt	NE	NE	MG/KG		3.1	0.94	1.2	1.5	0.58 U
Copper	10000	1720	MG/KG		4.6	2.7	2.8	3.4	1.4
Iron	NE	NE	MG/KG		6380	3830 J	3900	4260	3290
Lead	3900	450	MG/KG		8.5	3.5	3.8	3.8	1.2
Magnesium	NE	NE	MG/KG		1640	318	597	734	287
Manganese	10000	2000	MG/KG		95.5	66.6	57.3	82.5	36.4
Nickel	10000	130	MG/KG		5.5	5.2 U	5.1 U	5.4 U	5.8 U
Potassium	NE	NE	MG/KG		752	220	306	284	160
Vanadium	NE	NE	MG/KG		15.7	5.8 J	6.8	7.8	3.6
Zinc	10000	2480	MG/KG		15.8	6.5	8.3	8.7	4.6

TABLE 2

Soil Analytical Results

Site Characterization Investigation

Former Baron Blakeslee Site

Bay Shore, New York

Notes:
U – The analyte was analyzed for, but was not detected. Value shown is the practical quantitation limit (PQL) for the analyzed constituent.
J – Estimated concentration. The result is below the quantitation limit but above the method detection limit.
NE – Standard and/or guidance value not established.
* (Red) concentrations are above Soil Cleanup Objectives (NYCRR Subpart 375-6) Protection of Public Health (Industrial Use) and/or protection of groundwater
.

TABLE 3
Vapor Intrusion Analytical Results
Site Characterization Investigation
Former Baron Blakeslee Site
Bay Shore, New York

Air Results:

Analyte Group:											
VOCs	NYSDOH Air Guidelines	Units	Location:	IA-01	IA-02	IA-03	IA-04	SS-01	SS-02	SS-03	SS-04
Analyte Name			SampleName:	IA-01	IA-02	IA-03	IA-04	SS-01	SS-02	SS-03	SS-04
1,1,1-Trichloroethane	NE	UG/M3		0.23	0.22 U	0.3	0.47	2.9	460	120	78000
1,1-Dichloroethane	NE	UG/M3		0.16 U	0.16 U	0.16 U	0.16 U	0.14 U	34 U	1.1 U	210 U
1,2-Dichloroethene, total	NE	UG/M3		0.16 U	0.16 U	0.16 U	0.16 U	0.056 U	13 U	0.44 U	83 U
1,2-Dimethylbenzene (o-xylene)	NE	UG/M3		0.41	0.47	0.39	0.17 U	0.66 J	140 J	24	140 U
1,3,5-Trimethylbenzene (mesitylene)	NE	UG/M3		0.39 U	0.39 U	0.39 U	0.39 U	0.36 J	60 U	2 U	380 U
1,3-Butadiene	NE	UG/M3		0.18 U	0.18 U	0.18 U	0.22	0.37 J	5.3 U	0.18 U	33 U
2,2,4-Trimethylpentane	NE	UG/M3		0.68	0.5	0.54	0.28	0.17 U	40 U	1.3 U	250 U
4-Ethyltoluene	NE	UG/M3		0.2 U	0.2 U	0.2 U	0.2 U	0.23 U	54 U	1.8 U	340 U
Benzene	NE	UG/M3		0.99	1	0.99	1.3	0.64	14 U	1.7 J	86 U
Carbon tetrachloride	NE	UG/M3		0.42	0.44	0.43	0.44	0.21 U	50 U	1.7 U	310 U
Chloroform	NE	UG/M3		0.2 U	0.2 U	0.91	0.2 U	0.99	36 U	1.7 J	2500
cis-1,2-Dichloroethene	NE	UG/M3		0.16 U	0.16 U	0.16 U	0.16 U	0.056 U	13 U	0.44 U	83 U
Cyclohexane	NE	UG/M3		0.33	0.38	0.32	0.3	0.47 J	32 U	2.6 J	200 U
Dichlorodifluoromethane (Freon 12)	NE	UG/M3		2.7	2.5	2.9	3.7	35	45 U	2.9 J	280 U
Ethylbenzene	NE	UG/M3		0.41	0.41	0.41	0.17 U	0.59 J	27 J	3.1 J	140 U
m,p-Xylene (sum of isomers)	NE	UG/M3		1.3	1.4	1.3	0.23	1.6 J	150 J	7.9 J	310 U
n-Heptane (C7)	NE	UG/M3		0.51	0.6	0.43	0.29	0.78 J	9.8 U	1.4 J	61 U
n-Hexane (C6)	NE	UG/M3		0.69	0.77	0.66	0.79	0.75	43 J	1.3 J	140 U
Tetrachloroethene (PCE)	100	UG/M3		4.6	3.9	4.9	3.2	83	*22000	*1100	*190000
Toluene	NE	UG/M3		4.3	4.7	3.3	2.3	4.9	16 U	20	100 U
Trichloroethene (TCE)	5	UG/M3		0.5	0.4	0.64	0.9	0.48 J	*67 J	*260	*70000
Trichlorofluoromethane (Freon 11)	NE	UG/M3		1.3	1.3	1.3	1.2	1.7	46 U	2 J	290 U
Xylenes, total	NE	UG/M3		1.7	1.8	1.7	0.36	2.3	290	32	140 U

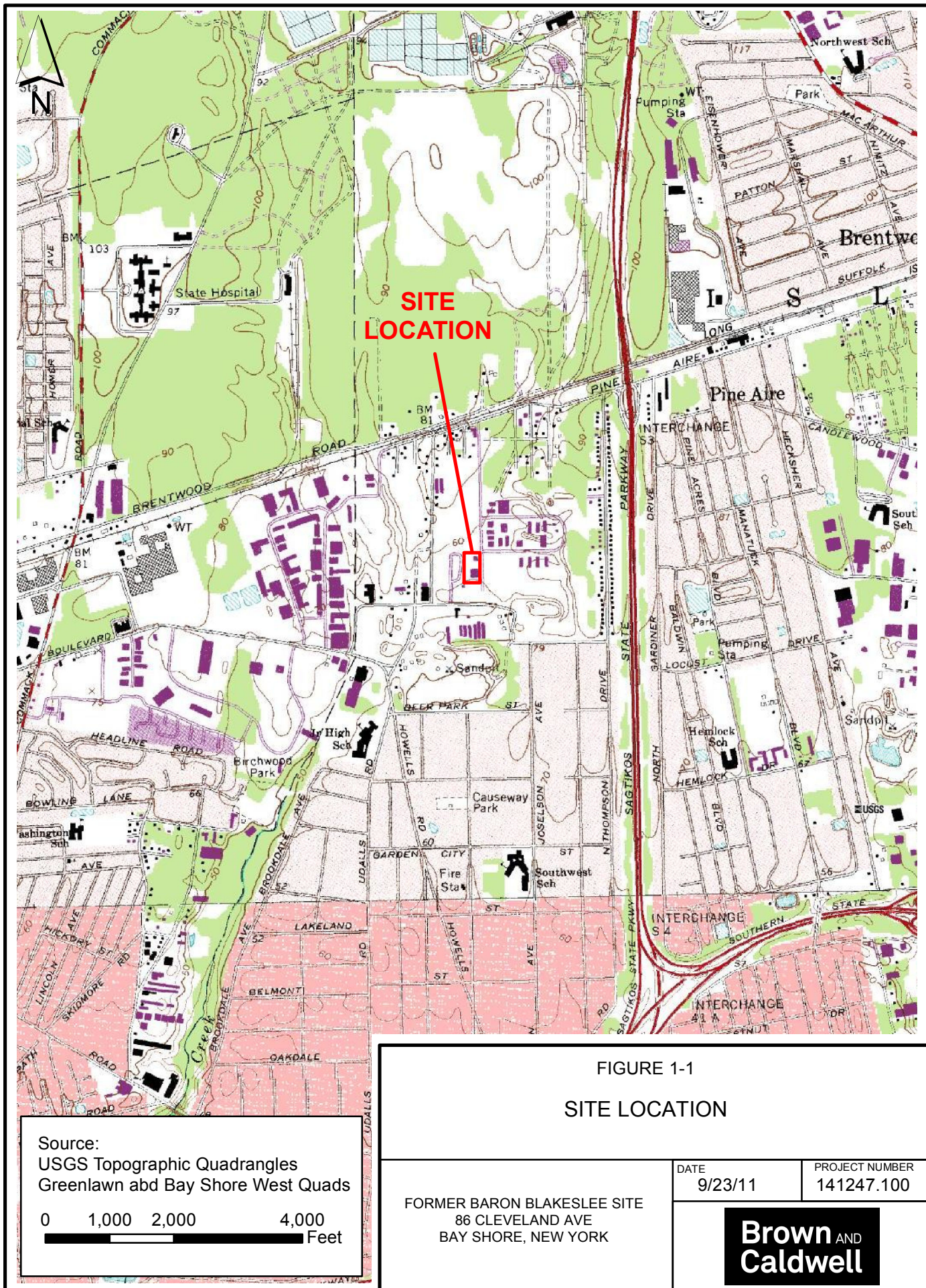
TABLE 3
Vapor Intrusion Analytical Results
Site Characterization Investigation
Former Baron Blakeslee Site
Bay Shore, New York

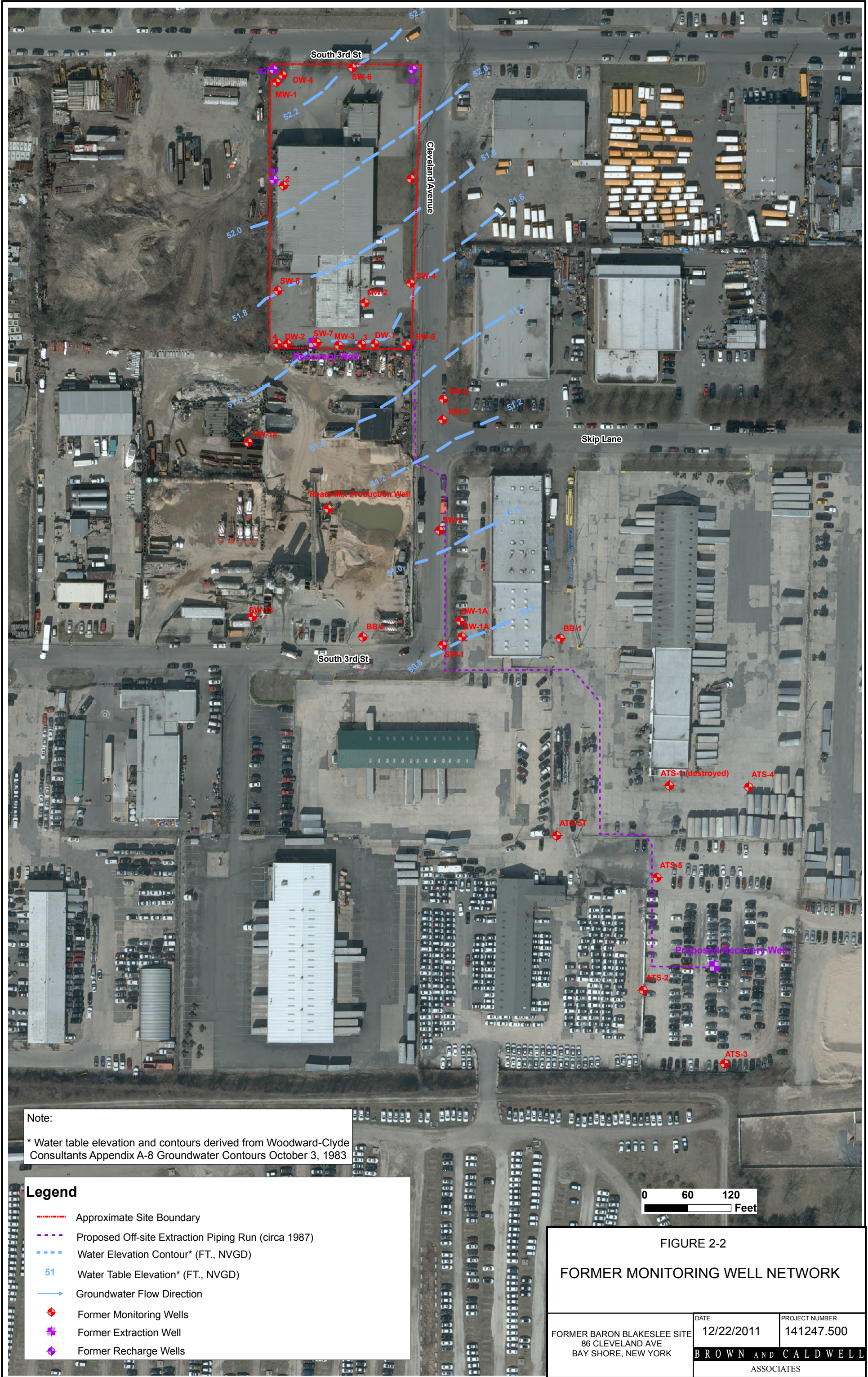
Air Results:

Analyte Group:									
VOCs	NYSDOH Air Guidelines	Units	Location:	SV-01	SV-01	SV-02	SV-03	SV-04	SV-05
Analyte Name			SampleName:	SV-01	DUP-111511	SV-02	SV-03	SV-04	SV-05
1,1,1-Trichloroethane	NE	UG/M3		36 J	34 J	110	28	610	410
1,1-Dichloroethane	NE	UG/M3		13 U	13 U	8.4	0.9 J	7.1 U	11 U
1,2-Dichloroethene, total	NE	UG/M3		5 U	5 U	3.3 J	0.34 U	2.8 U	9 J
1,2-Dimethylbenzene (o-xylene)	NE	UG/M3		8.6 U	8.6 U	3.8 J	1.8 J	4.8 U	7.6 U
1,3,5-Trimethylbenzene (mesitylene)	NE	UG/M3		23 U	23 U	3.1 J	1.5 U	13 U	20 U
1,3-Butadiene	NE	UG/M3		2 U	2 U	0.15 U	0.13 U	1.1 U	1.8 U
2,2,4-Trimethylpentane	NE	UG/M3		15 U	15 U	1.2 U	1 U	8.4 U	13 U
4-Ethyltoluene	NE	UG/M3		20 U	20 U	2.2 J	1.4 U	11 U	18 U
Benzene	NE	UG/M3		5.2 U	5.2 U	1.7 J	1.2 J	2.9 U	4.6 U
Carbon tetrachloride	NE	UG/M3		19 U	19 U	1.4 U	1.3 U	10 U	17 U
Chloroform	NE	UG/M3		14 U	14 U	1 U	0.92 U	7.6 U	12 U
cis-1,2-Dichloroethene	NE	UG/M3		5 U	5 U	3.3 J	0.34 U	2.8 U	9 J
Cyclohexane	NE	UG/M3		12 U	12 U	2 J	0.81 U	6.7 U	11 U
Dichlorodifluoromethane (Freon 12)	NE	UG/M3		17 U	17 U	2.8 J	2.7 J	34 J	15 U
Ethylbenzene	NE	UG/M3		8.6 U	8.6 U	2.2 J	1.4 J	4.8 U	7.6 U
m,p-Xylene (sum of isomers)	NE	UG/M3		19 U	19 U	6.4 J	3.8 J	10 U	17 U
n-Heptane (C7)	NE	UG/M3		3.7 U	3.7 U	2.5 J	1.4 J	2 U	3.3 U
n-Hexane (C6)	NE	UG/M3		8.3 U	8.3 U	1.3 J	1 J	4.6 U	7.3 U
Tetrachloroethene (PCE)	100	UG/M3		*12000	*12000	*900	*890	*7500	*13000
Toluene	NE	UG/M3		6.1 U	6.1 U	4.9 J	4.2 J	13 J	5.4 U
Trichloroethene (TCE)	5	UG/M3		*110	*110	*32	*21	*540	*170
Trichlorofluoromethane (Freon 11)	NE	UG/M3		17 U	17 U	1.5 J	1.2 U	14 J	15 U
Xylenes, total	NE	UG/M3		8.6 U	8.6 U	10	5.5	4.8 U	7.6 U

Notes:
U – The analyte was analyzed for, but was not detected. Value shown is the practical quantitation limit (PQL) for the analyzed constituent.
J – Estimated concentration. The result is below the quantitation limit but above the method detection limit.
NE – Standard and/or guidance value not established.
* (Red) red concentrations are above New York State Department of Health Air Guideline Values.

Figures





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FIGURE 3

2011 SITE CHARACTERIZATION
INVESTIGATION SAMPLE LOCATIONS

FORMER BARON BLAKESLEE SITE 86 CLEVELAND AVE BAY SHORE, NEW YORK	DATE	PROJECT NUMBER
	12/12/11	141247
	BROWN AND CALDWELL ASSOCIATES	

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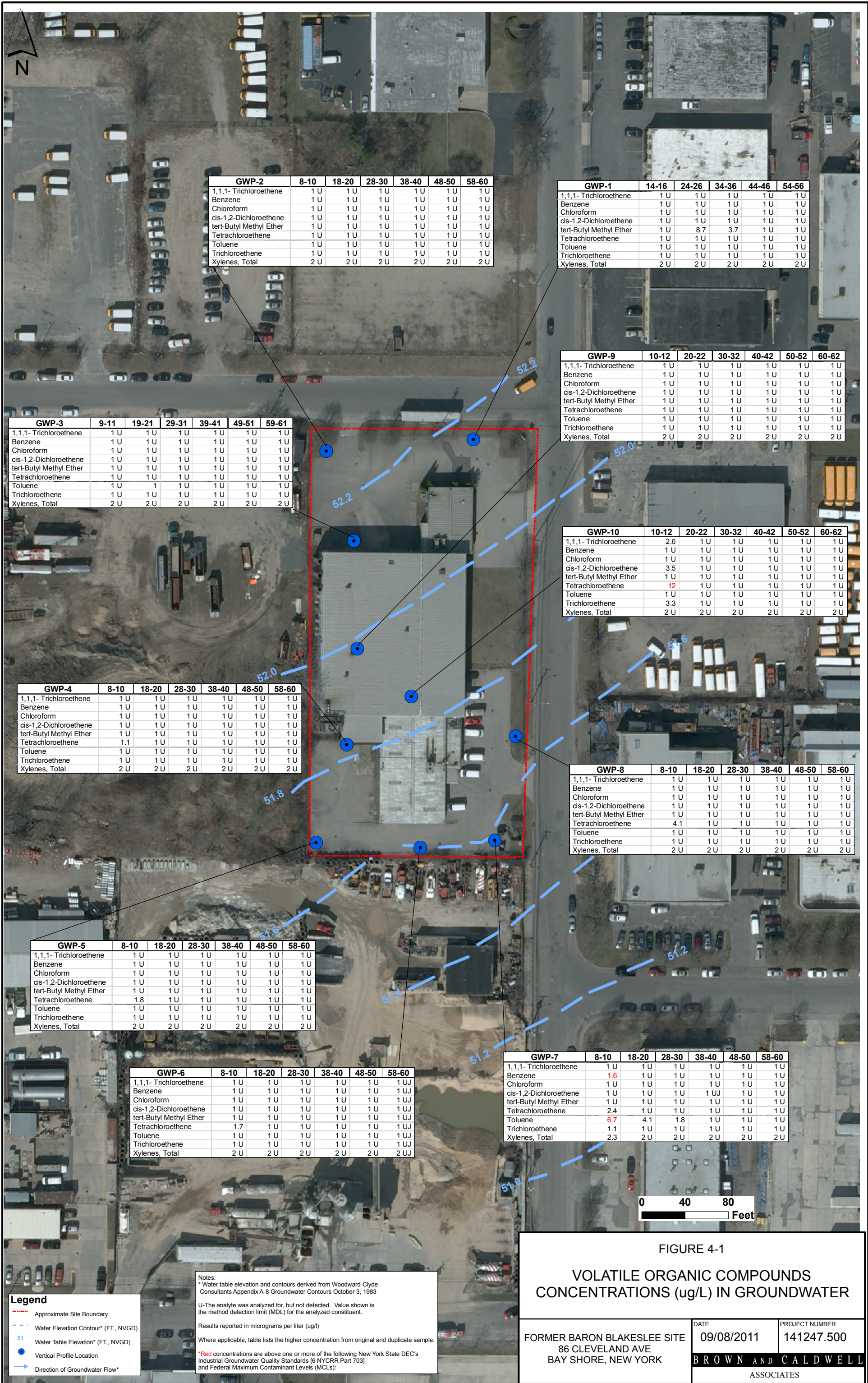


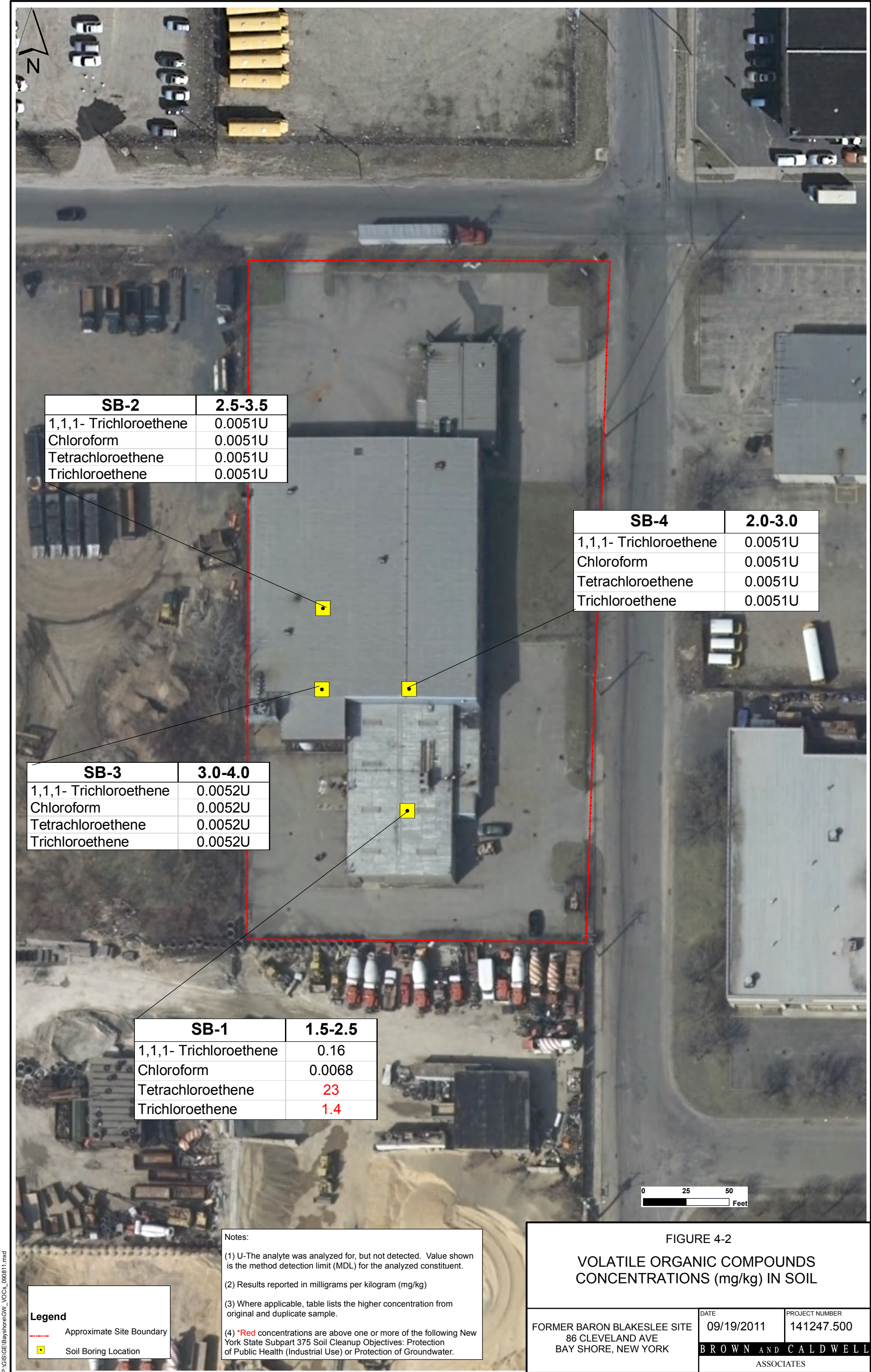
FIGURE 4-1
VOLATILE ORGANIC COMPOUNDS
CONCENTRATIONS (ug/L) IN GROUNDWATER

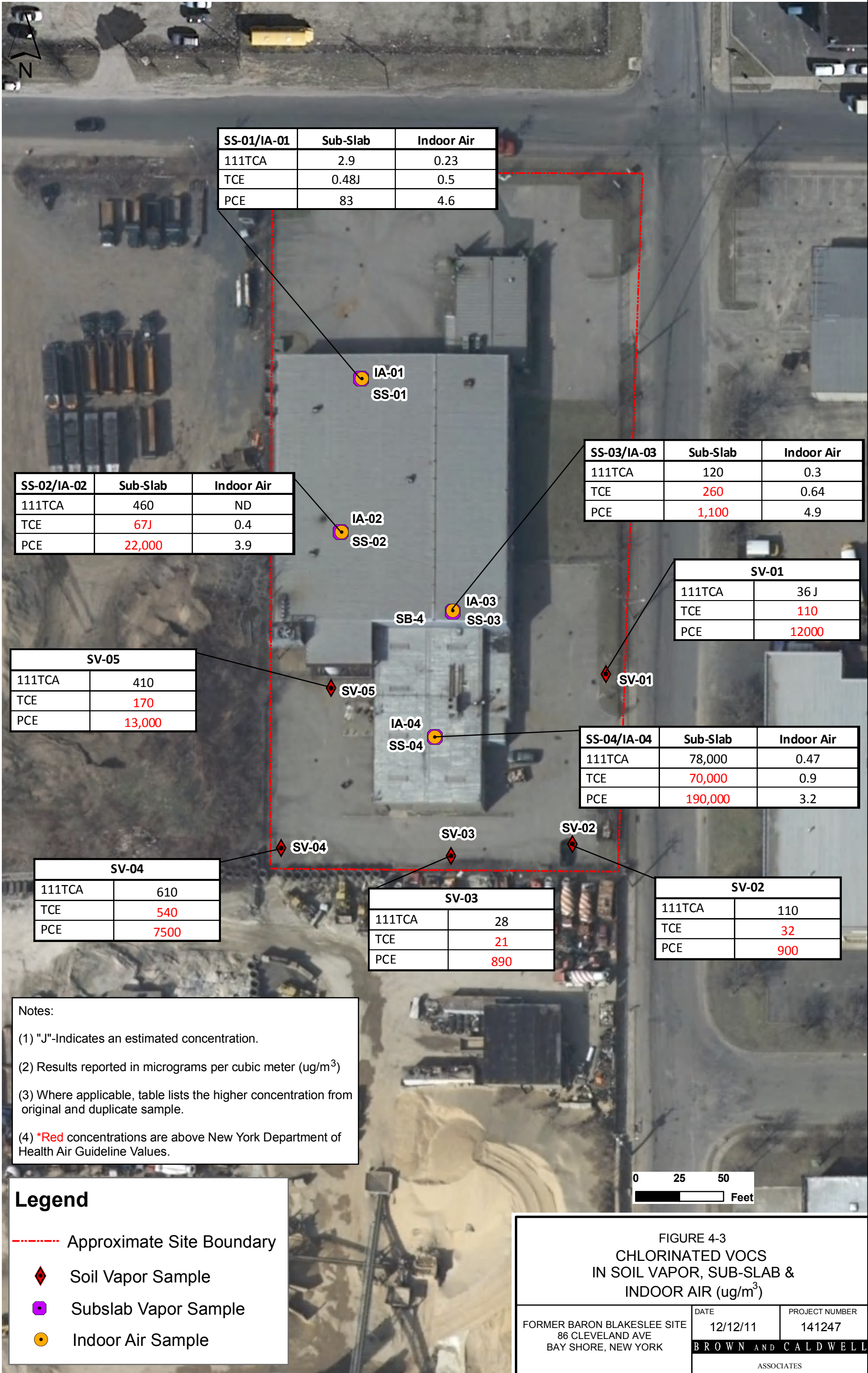
FORMER BARON BLAKESLEE SITE
86 CLEVELAND AVE
BAY SHORE, NEW YORK

DATE
09/08/2011

PROJECT NUMBER
141247.500

BROWN AND CALDWELL
ASSOCIATES





Appendix A: Records Review: EDR Report, Existing Environmental Documentation (CD-ROM)

Appendix B: Field Parameter Results

APPENDIX B
FIELD PARAMETER RESULTS
FORMER BARON BLAKESLEE SITE
BAY SHORE, NEW YORK

Location	Depth (ft., BGS)	pH	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)	Temp (°C)	ORP (mV)
GWP-1	14-16	5.62	0.483	0.85	"-5.0"*	23.2	68.0
GWP-1	24-26	6.20	0.504	3.26	"-5.0"*	15.6	17.0
GWP-1	34-36	5.17	0.703	4.74	"-5.0"*	16.0	124.0
GWP-1	44-46	5.28	0.436	5.95	"-5.0"*	16.6	107.0
GWP-1	54-56	5.29	0.364	7.55	"-5.0"*	15.4	130.0
GWP-1	62-64	5.81	0.426	0.00	"-5.0"*	16.9	-23.0
GWP-2	8-10	6.56	0.474	0.52	"-5.0"*	21.8	-35.0
GWP-2	18-20	6.02	0.488	0.00	"-5.0"*	17.8	59.0
GWP-2	28-30	6.04	0.475	19.99	"-5.0"*	15.9	52.0
GWP-2	38-40	5.40	0.467	13.01	"-5.0"*	15.2	110.0
GWP-2	48-50	5.31	0.443	10.27	"-5.0"*	15.5	114.0
GWP-2	58-60	5.55	0.493	3.21	"-5.0"*	15.6	46.0
GWP-3	9-11	6.38	0.265	0.00	"-5.0"*	24.6	-159.0
GWP-3	19-21	5.95	0.852	0.00	"-5.0"*	17.5	-68.0
GWP-3	29-31	5.98	0.648	2.11	"-5.0"*	15.8	64.0
GWP-3	39-41	5.51	0.526	6.15	"-5.0"*	15.7	111.0
GWP-3	49-51	5.13	0.503	5.99	"-5.0"*	16.1	142.0
GWP-3	59-61	5.25	0.407	6.04	"-5.0"*	15.8	94.0
GWP-4	8-10	6.89	0.565	0.00	"-5.0"*	21.5	-262.0
GWP-4	18-20	6.06	0.339	0.00	"-5.0"*	16.3	-52.0
GWP-4	28-30	5.57	0.344	2.42	"-5.0"*	15.1	17.0
GWP-4	38-40	5.70	0.353	0.18	"-5.0"*	16.2	-30.0
GWP-4	48-50	4.94	0.091	0.31	"-5.0"*	16.0	105.0
GWP-4	58-60	5.13	0.125	0.00	"-5.0"*	15.4	59.0
GWP-5	8-10	6.45	0.782	0.00	"-5.0"*	22.7	-5.0
GWP-5	18-20	6.68	0.455	0.00	"-5.0"*	16.6	-80.0
GWP-5	28-30	5.71	0.372	5.56	"-5.0"*	14.7	93.0
GWP-5	38-40	5.42	0.383	5.50	"-5.0"*	15.0	94.0
GWP-5	48-50	5.43	0.402	3.93	"-5.0"*	15.1	90.0
GWP-5	58-60	5.45	0.318	3.90	"-5.0"*	15.0	58.0
GWP-6	8-10	6.18	0.214	2.51	"-5.0"*	23.9	51.0
GWP-6	18-20	6.04	0.525	1.49	"-5.0"*	18.4	-34.0
GWP-6	28-30	5.48	0.418	3.98	"-5.0"*	18.0	44.0
GWP-6	38-40	4.94	0.259	8.39	"-5.0"*	17.2	133.0
GWP-6	48-50	5.46	0.301	5.29	"-5.0"*	17.7	31.0
GWP-6	58-60	5.25	0.160	0.73	"-5.0"*	16.2	17.0
GWP-7	8-10	5.93	0.392	1.92	"-5.0"*	25.7	10.0
GWP-7	18-20	5.69	0.542	1.85	"-5.0"*	20.7	NR
GWP-7	28-30	5.66	0.282	9.08	"-5.0"*	17.8	48.0
GWP-7	38-40	5.53	0.408	6.29	"-5.0"*	17.5	45.0
GWP-7	48-50	5.18	0.452	6.25	"-5.0"*	17.1	97.0
GWP-7	58-60	5.50	0.496	4.47	"-5.0"*	17.1	37.0
GWP-8	8-10	6.72	0.188	0.95	"-5.0"*	23.8	-44.0
GWP-8	18-20	6.17	0.769	0.97	"-5.0"*	18.4	-20.0
GWP-8	28-30	5.89	0.958	2.40	"-5.0"*	18.3	-45.0
GWP-8	38-40	5.17	0.376	7.52	"-5.0"*	15.9	120.0
GWP-8	48-50	5.16	0.652	5.02	"-5.0"*	16.3	94.0
GWP-8	58-60	4.73	0.492	1.96	"-5.0"*	16.6	161.0

APPENDIX B
FIELD PARAMETER RESULTS
FORMER BARON BLAKESLEE SITE
BAY SHORE, NEW YORK

Location	Depth (ft., BGS)	pH	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)	Temp (°C)	ORP (mV)
GWP-9	10-12	6.33	30.500	1.36	"-5.0"*	20.4	-41.0
GWP-9	20-22	6.21	0.513	2.67	"-5.0"*	15.2	-91.0
GWP-9	30-32	5.47	0.262	5.85	"-5.0"*	14.6	76.0
GWP-9	40-42	5.29	0.253	6.42	"-5.0"*	14.8	75.0
GWP-9	50-52	4.74	0.220	6.19	"-5.0"*	14.9	162.0
GWP-9	60-62	5.27	0.202	1.79	"-5.0"*	14.8	93.0
GWP-10	10-12	6.07	0.327	4.78	"-5.0"*	20.2	-2.0
GWP-10	20-22	5.78	0.596	1.49	"-5.0"*	17.0	15.0
GWP-10	30-32	5.64	0.578	1.45	"-5.0"*	15.5	36.0
GWP-10	40-42	4.99	0.539	1.55	"-5.0"*	15.3	119.0
GWP-10	50-52	4.99	0.282	7.03	"-5.0"*	15.4	122.0
GWP-10	60-62	5.01	0.360	10.86	"-5.0"*	16.0	112.0

Notes:


All value recorded after purging of 3 volumes.

*Indicates turbidity values over 800 NTU (limits of Horiba U-22)

NR- No Value Recorded


Appendix C: Boring Logs

BORING LOG

	Project Name: Fromer Baron Blakeslee Site Project Number: 141247.100 Project Location: Bay Shore, NY				Permit Number: NA	Boring No. SB-1 Page 1 of 1
Geologist/Office B. Taylor/Allendale, NJ	Checked By: CAS/FJW	Borehole Diameter: 2"	Screen Diameter and Type: NA	Slot Size: NA"	Total Boring Depth (ft) 5.0 ft.	
Start/Finish Date 7/19/11 - 7/19/11	Drilling Contractor: Zebra	Sampling: Continuous Core Hammer Type:	Development Method: NA			
Driller: Evan M.	Drilling Method: Direct Push	Drilling Equipment: Geoprobe	Horiz Datum/Proj: NAD83 Vert Datum: NGVD29 Ground Surface Elev: 58.7 ft.			Easting: 1181265.7 ft. Northing: 218423.7 ft. TOC Elev: --


Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log			ppm Readings (ppm)	Remarks
						Sample Int	Recovery	Lithology		
5	55	SW	Concrete		1				136	Hole backfiled with soil cuttings and grouted. Sample Name: SB-1-1-1.5. PID Readings (ppm): 6-10"=0, 10-14"=136, 14-18"=40.9, 18-22"=45.5, 22-26"=6.4, 26-30"=18.6, 30-34"=10.9, 34-38"19.9, 38-42"=22.3, 42-46"=6.6
		SW	FILL/Reworked Soil Brown f SAND, some Silt and fc Gravel [Misc: Ashpalt). Dry Light Brown fc SAND and fc GRAVEL. Dry.							

BORING LOG

	Project Name: Fromer Baron Blakeslee Site Project Number: 141247.100 Project Location: Bay Shore, NY				Permit Number: NA	Boring No. SB-2 Page 1 of 1
	Geologist/Office B. Taylor/Allendale, NJ	Checked By: CAS/FJW	Borehole Diameter: 2"	Screen Diameter and Type: NA	Slot Size: NA"	Total Boring Depth (ft) 5.0 ft.
Start/Finish Date 7/19/11 - 7/19/11	Drilling Contractor: Zebra	Sampling: Continuous Core Hammer Type:	Development Method: NA			
Driller: Evan M.	Drilling Method: Direct Push	Drilling Equipment: Geoprobe	Horiz Datum/Proj: NAD83 Vert Datum: NGVD29 Ground Surface Elev: 60.5 ft.			Easting: 1181216.6 ft. Northing: 218541.3 ft. TOC Elev: --


Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log			ppm Readings (ppm)	Remarks
						Sample Int	Recovery	Lithology		
	60		Concrete							
		SW	Fill/Reworked Soil Light Brown fc SAND, some fc Gravel, little(-) Silt. Dry.							
		SW	Brown fc SAND and fc GRAVEL, little (-) Silt. Dry.		1					
5		SW	Brown fc SAND and fc GRAVEL, little (-) Silt. Dry.						34.7	Hole backfilled with soil cuttings and grouted. Sample Number: SB-2-2.5-3.5 PID Readings (ppm). @6"=5.6, @10"=6.5, @14"=11.1, @18"=15.4, @22"=22.6, @26"=21.9, @30"=2.8,@34"=34.7, @38"=29.8, @42"=0, @48"=2.2

BORING LOG

	Project Name: Fromer Baron Blakeslee Site Project Number: 141247.100 Project Location: Bay Shore, NY				Permit Number: NA	Boring No. SB-3 Page 1 of 1
	Geologist/Office B. Taylor/Allendale, NJ	Checked By: CAS/FJW	Borehole Diameter: 2"	Screen Diameter and Type: NA	Slot Size: NA"	Total Boring Depth (ft) 5.0 ft.
Start/Finish Date 7/19/11 - 7/19/11	Drilling Contractor: Zebra	Sampling: Continuous Core Hammer Type:		Development Method: NA		
Driller: Evan M.	Drilling Method: Direct Push	Drilling Equipment: Geoprobe	Horiz Datum/Proj: NAD83 Vert Datum: NGVD29 Ground Surface Elev: 60.5 ft.		Easting: 1181216.1 ft. Northing: 218494.2 ft. TOC Elev: --	

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log			ppm Readings (ppm)	Remarks
						Sample Int	Recovery	Lithology		
60		SW	Concrete							
		SW	FILL Brown mfc SAND, little (-) Gravel and Silt. Dry.		1					
		SW	Dark Brown mfc SAND, some fc Gravel, little (+) Silt. Dry.							
		SW	Dark Brown mfc SAND, some mf Gravel, little (-) Silt. [Misc. Ashpalt]. Dry.							

BORING LOG

	Project Name: Fromer Baron Blakeslee Site Project Number: 141247.100 Project Location: Bay Shore, NY				Permit Number: <div style="text-align: center;">NA</div>	Boring No. <div style="text-align: center; font-weight: bold;">SB-4</div>
					NA	Page 1 of 1

Geologist/Office B. Taylor/Allendale, NJ	Checked By: CAS/FJW	Borehole Diameter: 2"	Screen Diameter and Type: NA	Slot Size: NA"	Total Boring Depth (ft) 5.0 ft.
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Start/Finish Date 7/19/11 - 7/19/11	Drilling Contractor: Zebra	Sampling: Continuous Core Hammer Type:	Development Method: NA
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Driller: Evan M.	Drilling Method: Direct Push	Drilling Equipment: Geoprobe	Horiz Datum/Proj: NAD83 Vert Datum: NGVD29 Ground Surface Elev: 60.5 ft.	Easting: 1181266.8 ft. Northing: 218494.5 ft. TOC Elev: --
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Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log				ppm Readings (ppm)	Remarks
						Sample Int	Recovery	Lithology	Backfill		
	60		Concrete								
		SW	FILL/Reworked Soil Brown mf SAND, little f Gravel, little (-) Silt. Dry.		1					16.7	Hole backfilled with soil cuttings and grouted. Sample Number: SB-4-2-3 PID Readings (ppm): @6"=2.9, @10"=0.0, @14"=8.5, @18"=8.9, @22"=10.2, @26"=16.1, @30"=16.7, @34"=13.9, @38"=0.9, @42"=1.5, @46"=1.1 @48"=0.2
		SW	Light Brown mfc SAND, some Gravel, little (-) Silt. Dry.								
5		SW	Dark Brown mfc SAND, some (+) mf Gravel, little (+) Silt. Dry.								

Appendix D: Laboratory Data Package (CD-ROM)

Appendix E: Data Usability Summary Report



**QUALITATIVE
DATA USABILITY REPORT
GE Bayshore Site
November 2011 Air Samples**

SDG No.: 200-8242

Laboratory: TestAmerica Buffalo, Amherst, New York

Site: Former Baron Blakeslee Site, Bay Shore, New York

Date: December 9, 2011

Samples

Data from the following samples were reviewed:

Laboratory ID	Client ID	Matrix
200-8242-1	IA-01	Air
200-8242-2	SS-01	Air
200-8242-3	SS-02	Air
200-8242-4	IA-02	Air
200-8242-5	SS-03	Air
200-8242-6	IA-03	Air
200-8242-7	SS-04	Air
200-8242-8	IA-04	Air
200-8242-9	SV-01	Air
200-8242-10	DUP-111511 (SV-01)	Air
200-8242-11	SV-02	Air
200-8242-12	SV-03	Air

200-8242-13	SV-04	Air
200-8242-14	SV-05	Air

A Qualitative Data Usability Review was performed on all analytical data from SDG 200-8242. The samples were collected at the Former Baron Blakeslee Site, in Bay Shore, Suffolk County, New York. The following table outlines the analytical methods used to analyze the samples;

Analysis	Method
Volatile Organic Compounds (VOC)	EPA Method TO-15
Low Level Volatile Organic Compounds (LLVOC)	EPA Method TO-15

This review was performed in accordance with NYSDEC Guidance for the Development of Data Usability Summary Reports (revised September 1997).

Data Package Completeness

- The data packages were received complete as defined under the requirements for the NYSDEC ASP Category B and USEPA CLP deliverables.

Chains of Custody

The Chains-of Custody (COCs) were reviewed for completeness and accuracy. There were no discrepancies noted and all requested analyses were performed.

Organics

The following were reviewed for the organic analyses in this report:

- Case narrative
- Analysis data sheets (Form 1's)
- Holding time
- Surrogate recoveries

- Lab Control Sample/Lab Control Sample duplicate (LCS/LCSD) recoveries and RPDs
- Blank contamination
- Gas Chromatography/Mass Spectroscopy (GC/MS) tuning
- Initial and continuing calibration summaries
- Internal Standard area and retention time summary forms
- Field duplicate precision

The items listed above were technically and contractually in compliance with the method and Work Plan requirements, with the exceptions discussed in the following text.

Volatiles by Method TO-15

Two compounds, acetone and methyl ethyl ketone had reporting limits (10 ug/L) above the maximum reporting limits listed in the work plan (5 ug/L). The data user should be aware of this discrepancy and should evaluate the impact this may have on data usability.

Methylene Chloride was detected in the method blank associated with samples SV-02, SV-03, SV-04, SV-05, SS-01, SS-02, SS-03, SS-04, SV-01, and DUP-111511. Associated sample results for methylene chloride less than 10 times the blank concentration have been qualified as not detected (U) at the reported sample concentration.

Sample	Compound	Result (ug/M ³)	Qualifier
SV-02	Methylene Chloride	<1.7	U
SV-03	Methylene Chloride	<2.1	U
SV-04	Methylene Chloride	<11	U
SV-05	Methylene Chloride	<17	U
SS-01	Methylene Chloride	<0.65	U
SS-02	Methylene Chloride	<45	U
SS-03	Methylene Chloride	<1.8	U
SS-04	Methylene Chloride	<270	U
SV-01	Methylene Chloride	<18	U

DUP-111511	Methylene Chloride	<20	U
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Validation Qualifiers

The following validation qualifiers may have been applied to the data, as appropriate.

- J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ = The analyte was not detected above the sample reporting limit; and the reporting limit is approximate.
- U = The analyte was tested, but was not detected above the sample reporting limit.
- R = The sample result is rejected due to serious deficiencies. The presence or absence of the analyte cannot be verified.

Summary Evaluation of Data and Potential Usability Issues

Overall, the data is acceptable for the intended purposes. No Data were rejected as a result of this review; most data meet the criteria for the parameters reviewed. Minor data quality issues were identified, only some required qualification of the data.

Signed: _____

Dated: _____

Gregory Cole

Senior Chemist

Analytical Data

Client: Brown and Caldwell

Job Number: 200-8242-1

Sdg Number: 200-8242

Client Sample ID: SS-01

Lab Sample ID: 200-8242-2

Date Sampled: 11/15/2011 1507

Client Matrix: Air

Date Received: 11/17/2011 1010

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-29662	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bkin010.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	11/28/2011 1710			Final Weight/Volume:	200 mL
Prep Date:	11/28/2011 1710			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	7.0		0.038	0.50
1,2-Dichlorotetrafluoroethane	0.20	U	0.032	0.20
Vinyl chloride	0.20	U	0.029	0.20
1,3-Butadiene	0.17	J	0.010	0.20
Bromomethane	0.20	U	0.012	0.20
Chloroethane	0.50	U	0.016	0.50
Bromoethene(Vinyl Bromide)	0.20	U	0.019	0.20
Trichlorofluoromethane	0.31		0.034	0.20
1,1-Dichloroethene	0.20	U	0.030	0.20
3-Chloropropene	0.50	U	0.019	0.50
Methylene Chloride	0.19	J-B	0.013	0.50
Methyl tert-butyl ether	0.20	U	0.016	0.20
trans-1,2-Dichloroethene	0.20	U	0.032	0.20
n-Hexane	0.21		0.026	0.20
1,1-Dichloroethane	0.20	U	0.035	0.20
cis-1,2-Dichloroethene	0.20	U	0.014	0.20
1,2-Dichloroethene, Total	0.20	U	0.014	0.20
Chloroform	0.20		0.031	0.20
1,1,1-Trichloroethane	0.53		0.035	0.20
Cyclohexane	0.14	J	0.039	0.20
Carbon tetrachloride	0.20	U	0.033	0.20
2,2,4-Trimethylpentane	0.20	U	0.036	0.20
Benzene	0.20		0.018	0.20
1,2-Dichloroethane	0.20	U	0.031	0.20
n-Heptane	0.19	J	0.010	0.20
Trichloroethene	0.090	J	0.030	0.20
1,2-Dichloropropane	0.20	U	0.014	0.20
Bromodichloromethane	0.20	U	0.028	0.20
cis-1,3-Dichloropropene	0.20	U	0.016	0.20
Toluene	1.3		0.018	0.20
trans-1,3-Dichloropropene	0.20	U	0.020	0.20
1,1,2-Trichloroethane	0.20	U	0.019	0.20
Tetrachloroethene	12		0.011	0.20
Dibromochloromethane	0.20	U	0.021	0.20
1,2-Dibromoethane	0.20	U	0.018	0.20
Ethylbenzene	0.14	J	0.022	0.20
m,p-Xylene	0.37	J	0.048	0.50
Xylene, o-	0.15	J	0.022	0.20
Xylene (total)	0.52		0.022	0.20
Bromoform	0.20	U	0.019	0.20
1,1,2,2-Tetrachloroethane	0.20	U	0.040	0.20
4-Ethyltoluene	0.20	U	0.046	0.20
1,3,5-Trimethylbenzene	0.072	J	0.051	0.20

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	35		0.19	2.5

Analytical Data

Client: Brown and Caldwell

Job Number: 200-8242-1

Sdg Number: 200-8242

Client Sample ID: SS-01

Lab Sample ID: 200-8242-2

Date Sampled: 11/15/2011 1507

Client Matrix: Air

Date Received: 11/17/2011 1010

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-29662	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bkin010.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	11/28/2011 1710			Final Weight/Volume:	200 mL
Prep Date:	11/28/2011 1710			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
1,2-Dichlorotetrafluoroethane	1.4	U	0.22	1.4
Vinyl chloride	0.51	U	0.074	0.51
1,3-Butadiene	0.37	J	0.022	0.44
Bromomethane	0.78	U	0.047	0.78
Chloroethane	1.3	U	0.042	1.3
Bromoethene(Vinyl Bromide)	0.87	U	0.083	0.87
Trichlorofluoromethane	1.7		0.19	1.1
1,1-Dichloroethene	0.79	U	0.12	0.79
3-Chloropropene	1.6	U	0.059	1.6
Methylene Chloride	0.65	J-B	0.045	1.7
Methyl tert-butyl ether	0.72	U	0.058	0.72
trans-1,2-Dichloroethene	0.79	U	0.13	0.79
n-Hexane	0.75		0.092	0.70
1,1-Dichloroethane	0.81	U	0.14	0.81
cis-1,2-Dichloroethene	0.79	U	0.056	0.79
1,2-Dichloroethene, Total	0.79	U	0.056	0.79
Chloroform	0.99		0.15	0.98
1,1,1-Trichloroethane	2.9		0.19	1.1
Cyclohexane	0.47	J	0.13	0.69
Carbon tetrachloride	1.3	U	0.21	1.3
2,2,4-Trimethylpentane	0.93	U	0.17	0.93
Benzene	0.64		0.058	0.64
1,2-Dichloroethane	0.81	U	0.13	0.81
n-Heptane	0.78	J	0.041	0.82
Trichloroethene	0.48	J	0.16	1.1
1,2-Dichloropropane	0.92	U	0.065	0.92
Bromodichloromethane	1.3	U	0.19	1.3
cis-1,3-Dichloropropene	0.91	U	0.073	0.91
Toluene	4.9		0.068	0.75
trans-1,3-Dichloropropene	0.91	U	0.091	0.91
1,1,2-Trichloroethane	1.1	U	0.10	1.1
Tetrachloroethene	83		0.075	1.4
Dibromochloromethane	1.7	U	0.18	1.7
1,2-Dibromoethane	1.5	U	0.14	1.5
Ethylbenzene	0.59	J	0.096	0.87
m,p-Xylene	1.6	J	0.21	2.2
Xylene, o-	0.66	J	0.096	0.87
Xylene (total)	2.3		0.096	0.87
Bromoform	2.1	U	0.20	2.1
1,1,2,2-Tetrachloroethane	1.4	U	0.27	1.4
4-Ethyltoluene	0.98	U	0.23	0.98
1,3,5-Trimethylbenzene	0.36	J	0.25	0.98

Analytical Data

Client: Brown and Caldwell

Job Number: 200-8242-1

Sdg Number: 200-8242

Client Sample ID: SS-02

Lab Sample ID: 200-8242-3

Date Sampled: 11/15/2011 1554

Client Matrix: Air

Date Received: 11/17/2011 1010

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-29662	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bkin011.d
Dilution:	240			Initial Weight/Volume:	55 mL
Analysis Date:	11/28/2011 1803			Final Weight/Volume:	200 mL
Prep Date:	11/28/2011 1803			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	120	U	9.1	120
1,2-Dichlorotetrafluoroethane	48	U	7.7	48
Vinyl chloride	48	U	7.0	48
1,3-Butadiene	48	U	2.4	48
Bromomethane	48	U	2.9	48
Chloroethane	120	U	3.8	120
Bromoethene(Vinyl Bromide)	48	U	4.6	48
Trichlorofluoromethane	48	U	8.2	48
1,1-Dichloroethene	48	U	7.2	48
3-Chloropropene	120	U	4.6	120
Methylene Chloride	13	JB U	3.1	120
Methyl tert-butyl ether	48	U	3.8	48
trans-1,2-Dichloroethene	48	U	7.7	48
n-Hexane	12	J	6.2	48
1,1-Dichloroethane	48	U	8.4	48
cis-1,2-Dichloroethene	48	U	3.4	48
1,2-Dichloroethene, Total	48	U	3.4	48
Chloroform	48	U	7.4	48
1,1,1-Trichloroethane	85		8.4	48
Cyclohexane	48	U	9.4	48
Carbon tetrachloride	48	U	7.9	48
2,2,4-Trimethylpentane	48	U	8.6	48
Benzene	48	U	4.3	48
1,2-Dichloroethane	48	U	7.4	48
n-Heptane	48	U	2.4	48
Trichloroethene	13	J	7.2	48
1,2-Dichloropropane	48	U	3.4	48
Bromodichloromethane	48	U	6.7	48
cis-1,3-Dichloropropene	48	U	3.8	48
Toluene	48	U	4.3	48
trans-1,3-Dichloropropene	48	U	4.8	48
1,1,2-Trichloroethane	48	U	4.6	48
Tetrachloroethene	3300		2.6	48
Dibromochloromethane	48	U	5.0	48
1,2-Dibromoethane	48	U	4.3	48
Ethylbenzene	6.2	J	5.3	48
m,p-Xylene	35	J	12	120
Xylene, o-	32	J	5.3	48
Xylene (total)	66		5.3	48
Bromoform	48	U	4.6	48
1,1,2,2-Tetrachloroethane	48	U	9.6	48
4-Ethyltoluene	48	U	11	48
1,3,5-Trimethylbenzene	48	U	12	48

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	590	U	45	590

Analytical Data

Client: Brown and Caldwell

Job Number: 200-8242-1

Sdg Number: 200-8242

Client Sample ID: SS-02

Lab Sample ID: 200-8242-3

Date Sampled: 11/15/2011 1554

Client Matrix: Air

Date Received: 11/17/2011 1010

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-29662	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bkin011.d
Dilution:	240			Initial Weight/Volume:	55 mL
Analysis Date:	11/28/2011 1803			Final Weight/Volume:	200 mL
Prep Date:	11/28/2011 1803			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
1,2-Dichlorotetrafluoroethane	340	U	54	340
Vinyl chloride	120	U	18	120
1,3-Butadiene	110	U	5.3	110
Bromomethane	190	U	11	190
Chloroethane	320	U	10	320
Bromoethene(Vinyl Bromide)	210	U	20	210
Trichlorofluoromethane	270	U	46	270
1,1-Dichloroethene	190	U	29	190
3-Chloropropene	380	U	14	380
Methylene Chloride	45	J-B U	14 45	420
Methyl tert-butyl ether	170	U	14	170
trans-1,2-Dichloroethene	190	U	30	190
n-Hexane	43	J	22	170
1,1-Dichloroethane	190	U	34	190
cis-1,2-Dichloroethene	190	U	13	190
1,2-Dichloroethene, Total	190	U	13	190
Chloroform	230	U	36	230
1,1,1-Trichloroethane	460		46	260
Cyclohexane	170	U	32	170
Carbon tetrachloride	300	U	50	300
2,2,4-Trimethylpentane	220	U	40	220
Benzene	150	U	14	150
1,2-Dichloroethane	190	U	30	190
n-Heptane	200	U	9.8	200
Trichloroethene	67	J	39	260
1,2-Dichloropropane	220	U	16	220
Bromodichloromethane	320	U	45	320
cis-1,3-Dichloropropene	220	U	17	220
Toluene	180	U	16	180
trans-1,3-Dichloropropene	220	U	22	220
1,1,2-Trichloroethane	260	U	25	260
Tetrachloroethene	22000		18	330
Dibromochloromethane	410	U	43	410
1,2-Dibromoethane	370	U	33	370
Ethylbenzene	27	J	23	210
m,p-Xylene	150	J	50	520
Xylene, o-	140	J	23	210
Xylene (total)	290		23	210
Bromoform	500	U	47	500
1,1,2,2-Tetrachloroethane	330	U	66	330
4-Ethyltoluene	240	U	54	240
1,3,5-Trimethylbenzene	240	U	60	240

Analytical Data

Client: Brown and Caldwell

Job Number: 200-8242-1

Sdg Number: 200-8242

Client Sample ID: SS-03

Lab Sample ID: 200-8242-5

Date Sampled: 11/15/2011 1600

Client Matrix: Air

Date Received: 11/17/2011 1010

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-29662	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bkin012.d
Dilution:	8.0			Initial Weight/Volume:	25 mL
Analysis Date:	11/28/2011 1856			Final Weight/Volume:	200 mL
Prep Date:	11/28/2011 1856			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	0.60	J	0.30	4.0
1,2-Dichlorotetrafluoroethane	1.6	U	0.26	1.6
Vinyl chloride	1.6	U	0.23	1.6
1,3-Butadiene	1.6	U	0.080	1.6
Bromomethane	1.6	U	0.096	1.6
Chloroethane	4.0	U	0.13	4.0
Bromoethene(Vinyl Bromide)	1.6	U	0.15	1.6
Trichlorofluoromethane	0.35	J	0.27	1.6
1,1-Dichloroethene	1.6	U	0.24	1.6
3-Chloropropene	4.0	U	0.15	4.0
Methylene Chloride	0.53	J-B	0.10	4.0
Methyl tert-butyl ether	1.6	U	0.13	1.6
trans-1,2-Dichloroethene	1.6	U	0.26	1.6
n-Hexane	0.36	J	0.21	1.6
1,1-Dichloroethane	1.6	U	0.28	1.6
cis-1,2-Dichloroethene	1.6	U	0.11	1.6
1,2-Dichloroethene, Total	1.6	U	0.11	1.6
Chloroform	0.35	J	0.25	1.6
1,1,1-Trichloroethane	21		0.28	1.6
Cyclohexane	0.76	J	0.31	1.6
Carbon tetrachloride	1.6	U	0.26	1.6
2,2,4-Trimethylpentane	1.6	U	0.29	1.6
Benzene	0.53	J	0.14	1.6
1,2-Dichloroethane	1.6	U	0.25	1.6
n-Heptane	0.33	J	0.080	1.6
Trichloroethene	49		0.24	1.6
1,2-Dichloropropane	1.6	U	0.11	1.6
Bromodichloromethane	1.6	U	0.22	1.6
cis-1,3-Dichloropropene	1.6	U	0.13	1.6
Toluene	5.3		0.14	1.6
trans-1,3-Dichloropropene	1.6	U	0.16	1.6
1,1,2-Trichloroethane	1.6	U	0.15	1.6
Tetrachloroethene	170		0.088	1.6
Dibromochloromethane	1.6	U	0.17	1.6
1,2-Dibromoethane	1.6	U	0.14	1.6
Ethylbenzene	0.71	J	0.18	1.6
m,p-Xylene	1.8	J	0.38	4.0
Xylene, o-	5.4		0.18	1.6
Xylene (total)	7.3		0.18	1.6
Bromoform	1.6	U	0.15	1.6
1,1,2,2-Tetrachloroethane	1.6	U	0.32	1.6
4-Ethyltoluene	1.6	U	0.37	1.6
1,3,5-Trimethylbenzene	1.6	U	0.41	1.6

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	2.9	J	1.5	20

Analytical Data

Client: Brown and Caldwell

Job Number: 200-8242-1

Sdg Number: 200-8242

Client Sample ID: SS-03

Lab Sample ID: 200-8242-5

Date Sampled: 11/15/2011 1600

Client Matrix: Air

Date Received: 11/17/2011 1010

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-29662	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bkin012.d
Dilution:	8.0			Initial Weight/Volume:	25 mL
Analysis Date:	11/28/2011 1856			Final Weight/Volume:	200 mL
Prep Date:	11/28/2011 1856			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
1,2-Dichlorotetrafluoroethane	11	U	1.8	11
Vinyl chloride	4.1	U	0.59	4.1
1,3-Butadiene	3.5	U	0.18	3.5
Bromomethane	6.2	U	0.37	6.2
Chloroethane	11	U	0.34	11
Bromoethene(Vinyl Bromide)	7.0	U	0.66	7.0
Trichlorofluoromethane	2.0	J	1.5	9.0
1,1-Dichloroethene	6.3	U	0.95	6.3
3-Chloropropene	13	U	0.48	13
Methylene Chloride	1.8	J	0.36	14
Methyl tert-butyl ether	5.8	U	0.46	5.8
trans-1,2-Dichloroethene	6.3	U	1.0	6.3
n-Hexane	1.3	J	0.73	5.6
1,1-Dichloroethane	6.5	U	1.1	6.5
cis-1,2-Dichloroethene	6.3	U	0.44	6.3
1,2-Dichloroethene, Total	6.3	U	0.44	6.3
Chloroform	1.7	J	1.2	7.8
1,1,1-Trichloroethane	120		1.5	8.7
Cyclohexane	2.6	J	1.1	5.5
Carbon tetrachloride	10	U	1.7	10
2,2,4-Trimethylpentane	7.5	U	1.3	7.5
Benzene	1.7	J	0.46	5.1
1,2-Dichloroethane	6.5	U	1.0	6.5
n-Heptane	1.4	J	0.33	6.6
Trichloroethene	260		1.3	8.6
1,2-Dichloropropane	7.4	U	0.52	7.4
Bromodichloromethane	11	U	1.5	11
cis-1,3-Dichloropropene	7.3	U	0.58	7.3
Toluene	20		0.54	6.0
trans-1,3-Dichloropropene	7.3	U	0.73	7.3
1,1,2-Trichloroethane	8.7	U	0.83	8.7
Tetrachloroethene	1100		0.60	11
Dibromochloromethane	14	U	1.4	14
1,2-Dibromoethane	12	U	1.1	12
Ethylbenzene	3.1	J	0.76	6.9
m,p-Xylene	7.9	J	1.7	17
Xylene, o-	24		0.76	6.9
Xylene (total)	32		0.76	6.9
Bromoform	17	U	1.6	17
1,1,2,2-Tetrachloroethane	11	U	2.2	11
4-Ethyltoluene	7.9	U	1.8	7.9
1,3,5-Trimethylbenzene	7.9	U	2.0	7.9

Analytical Data

Client: Brown and Caldwell

Job Number: 200-8242-1

Sdg Number: 200-8242

Client Sample ID: SS-04

Lab Sample ID: 200-8242-7

Date Sampled: 11/15/2011 1615

Client Matrix: Air

Date Received: 11/17/2011 1010

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-29662	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bkin013.d
Dilution:	1500			Initial Weight/Volume:	38 mL
Analysis Date:	11/28/2011 1949			Final Weight/Volume:	200 mL
Prep Date:	11/28/2011 1949			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	750	U	57	750
1,2-Dichlorotetrafluoroethane	300	U	48	300
Vinyl chloride	300	U	44	300
1,3-Butadiene	300	U	15	300
Bromomethane	300	U	18	300
Chloroethane	750	U	24	750
Bromoethene(Vinyl Bromide)	300	U	29	300
Trichlorofluoromethane	300	U	51	300
1,1-Dichloroethene	300	U	45	300
3-Chloropropene	750	U	29	750
Methylene Chloride	79	JB U	20	750
Methyl tert-butyl ether	300	U	24	300
trans-1,2-Dichloroethene	300	U	48	300
n-Hexane	300	U	39	300
1,1-Dichloroethane	300	U	53	300
cis-1,2-Dichloroethene	300	U	21	300
1,2-Dichloroethene, Total	300	U	21	300
Chloroform	500		47	300
1,1,1-Trichloroethane	14000		53	300
Cyclohexane	300	U	59	300
Carbon tetrachloride	300	U	50	300
2,2,4-Trimethylpentane	300	U	54	300
Benzene	300	U	27	300
1,2-Dichloroethane	300	U	47	300
n-Heptane	300	U	15	300
Trichloroethene	13000		45	300
1,2-Dichloropropane	300	U	21	300
Bromodichloromethane	300	U	42	300
cis-1,3-Dichloropropene	300	U	24	300
Toluene	300	U	27	300
trans-1,3-Dichloropropene	300	U	30	300
1,1,2-Trichloroethane	300	U	29	300
Tetrachloroethene	27000		17	300
Dibromochloromethane	300	U	32	300
1,2-Dibromoethane	300	U	27	300
Ethylbenzene	300	U	33	300
m,p-Xylene	750	U	72	750
Xylene, o-	300	U	33	300
Xylene (total)	300	U	33	300
Bromoform	300	U	29	300
1,1,2,2-Tetrachloroethane	300	U	60	300
4-Ethyltoluene	300	U	69	300
1,3,5-Trimethylbenzene	300	U	77	300

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	3700	U	280	3700

Analytical Data

Client: Brown and Caldwell

Job Number: 200-8242-1

Sdg Number: 200-8242

Client Sample ID: SS-04

Lab Sample ID: 200-8242-7

Date Sampled: 11/15/2011 1615

Client Matrix: Air

Date Received: 11/17/2011 1010

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-29662	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bkin013.d
Dilution:	1500			Initial Weight/Volume:	38 mL
Analysis Date:	11/28/2011 1949			Final Weight/Volume:	200 mL
Prep Date:	11/28/2011 1949			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
1,2-Dichlorotetrafluoroethane	2100	U	340	2100
Vinyl chloride	770	U	110	770
1,3-Butadiene	660	U	33	660
Bromomethane	1200	U	70	1200
Chloroethane	2000	U	63	2000
Bromoethene(Vinyl Bromide)	1300	U	120	1300
Trichlorofluoromethane	1700	U	290	1700
1,1-Dichloroethene	1200	U	180	1200
3-Chloropropene	2300	U	89	2300
Methylene Chloride	270	JB U	68	270
Methyl tert-butyl ether	1100	U	87	1100
trans-1,2-Dichloroethene	1200	U	190	1200
n-Hexane	1100	U	140	1100
1,1-Dichloroethane	1200	U	210	1200
cis-1,2-Dichloroethene	1200	U	83	1200
1,2-Dichloroethene, Total	1200	U	83	1200
Chloroform	2500		230	1500
1,1,1-Trichloroethane	78000		290	1600
Cyclohexane	1000	U	200	1000
Carbon tetrachloride	1900	U	310	1900
2,2,4-Trimethylpentane	1400	U	250	1400
Benzene	960	U	86	960
1,2-Dichloroethane	1200	U	190	1200
n-Heptane	1200	U	61	1200
Trichloroethene	70000		240	1600
1,2-Dichloropropane	1400	U	97	1400
Bromodichloromethane	2000	U	280	2000
cis-1,3-Dichloropropene	1400	U	110	1400
Toluene	1100	U	100	1100
trans-1,3-Dichloropropene	1400	U	140	1400
1,1,2-Trichloroethane	1600	U	160	1600
Tetrachloroethene	190000		110	2000
Dibromochloromethane	2600	U	270	2600
1,2-Dibromoethane	2300	U	210	2300
Ethylbenzene	1300	U	140	1300
m,p-Xylene	3300	U	310	3300
Xylene, o-	1300	U	140	1300
Xylene (total)	1300	U	140	1300
Bromoform	3100	U	290	3100
1,1,2,2-Tetrachloroethane	2100	U	410	2100
4-Ethyltoluene	1500	U	340	1500
1,3,5-Trimethylbenzene	1500	U	380	1500

Analytical Data

Client: Brown and Caldwell

Job Number: 200-8242-1

Sdg Number: 200-8242

Client Sample ID: SV-01

Lab Sample ID: 200-8242-9

Date Sampled: 11/15/2011 1622

Client Matrix: Air

Date Received: 11/17/2011 1010

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-29662	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bkin014.d
Dilution:	90.1			Initial Weight/Volume:	36 mL
Analysis Date:	11/28/2011 2042			Final Weight/Volume:	200 mL
Prep Date:	11/28/2011 2042			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	45	U	3.4	45
1,2-Dichlorotetrafluoroethane	18	U	2.9	18
Vinyl chloride	18	U	2.6	18
1,3-Butadiene	18	U	0.90	18
Bromomethane	18	U	1.1	18
Chloroethane	45	U	1.4	45
Bromoethene(Vinyl Bromide)	18	U	1.7	18
Trichlorofluoromethane	18	U	3.1	18
1,1-Dichloroethene	18	U	2.7	18
3-Chloropropene	45	U	1.7	45
Methylene Chloride	5.2	JB-U	1.2 5.2	45
Methyl tert-butyl ether	18	U	1.4	18
trans-1,2-Dichloroethene	18	U	2.9	18
n-Hexane	18	U	2.3	18
1,1-Dichloroethane	18	U	3.2	18
cis-1,2-Dichloroethene	18	U	1.3	18
1,2-Dichloroethene, Total	18	U	1.3	18
Chloroform	18	U	2.8	18
1,1,1-Trichloroethane	6.5	J	3.2	18
Cyclohexane	18	U	3.5	18
Carbon tetrachloride	18	U	3.0	18
2,2,4-Trimethylpentane	18	U	3.2	18
Benzene	18	U	1.6	18
1,2-Dichloroethane	18	U	2.8	18
n-Heptane	18	U	0.90	18
Trichloroethene	20		2.7	18
1,2-Dichloropropane	18	U	1.3	18
Bromodichloromethane	18	U	2.5	18
cis-1,3-Dichloropropene	18	U	1.4	18
Toluene	18	U	1.6	18
trans-1,3-Dichloropropene	18	U	1.8	18
1,1,2-Trichloroethane	18	U	1.7	18
Tetrachloroethene	1800		0.99	18
Dibromochloromethane	18	U	1.9	18
1,2-Dibromoethane	18	U	1.6	18
Ethylbenzene	18	U	2.0	18
m,p-Xylene	45	U	4.3	45
Xylene, o-	18	U	2.0	18
Xylene (total)	18	U	2.0	18
Bromoform	18	U	1.7	18
1,1,2,2-Tetrachloroethane	18	U	3.6	18
4-Ethyltoluene	18	U	4.1	18
1,3,5-Trimethylbenzene	18	U	4.6	18

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	220	U	17	220

Analytical Data

Client: Brown and Caldwell

Job Number: 200-8242-1

Sdg Number: 200-8242

Client Sample ID: SV-01

Lab Sample ID: 200-8242-9

Date Sampled: 11/15/2011 1622

Client Matrix: Air

Date Received: 11/17/2011 1010

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-29662	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bkin014.d
Dilution:	90.1			Initial Weight/Volume:	36 mL
Analysis Date:	11/28/2011 2042			Final Weight/Volume:	200 mL
Prep Date:	11/28/2011 2042			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
1,2-Dichlorotetrafluoroethane	130	U	20	130
Vinyl chloride	46	U	6.7	46
1,3-Butadiene	40	U	2.0	40
Bromomethane	70	U	4.2	70
Chloroethane	120	U	3.8	120
Bromoethene(Vinyl Bromide)	79	U	7.5	79
Trichlorofluoromethane	100	U	17	100
1,1-Dichloroethene	71	U	11	71
3-Chloropropene	140	U	5.4	140
Methylene Chloride	18	U	4.1	160
Methyl tert-butyl ether	65	U	5.2	65
trans-1,2-Dichloroethene	71	U	11	71
n-Hexane	64	U	8.3	64
1,1-Dichloroethane	73	U	13	73
cis-1,2-Dichloroethene	71	U	5.0	71
1,2-Dichloroethene, Total	71	U	5.0	71
Chloroform	88	U	14	88
1,1,1-Trichloroethane	36	J	17	98
Cyclohexane	62	U	12	62
Carbon tetrachloride	110	U	19	110
2,2,4-Trimethylpentane	84	U	15	84
Benzene	58	U	5.2	58
1,2-Dichloroethane	73	U	11	73
n-Heptane	74	U	3.7	74
Trichloroethene	110	U	15	97
1,2-Dichloropropane	83	U	5.8	83
Bromodichloromethane	120	U	17	120
cis-1,3-Dichloropropene	82	U	6.5	82
Toluene	68	U	6.1	68
trans-1,3-Dichloropropene	82	U	8.2	82
1,1,2-Trichloroethane	98	U	9.3	98
Tetrachloroethene	12000	U	6.7	120
Dibromochloromethane	150	U	16	150
1,2-Dibromoethane	140	U	12	140
Ethylbenzene	78	U	8.6	78
m,p-Xylene	200	U	19	200
Xylene, o-	78	U	8.6	78
Xylene (total)	78	U	8.6	78
Bromoform	190	U	18	190
1,1,2,2-Tetrachloroethane	120	U	25	120
4-Ethyltoluene	89	U	20	89
1,3,5-Trimethylbenzene	89	U	23	89

Analytical Data

Client: Brown and Caldwell

Job Number: 200-8242-1

Sdg Number: 200-8242

Client Sample ID: DUP-111511

Lab Sample ID: 200-8242-10

Client Matrix: Air

Date Sampled: 11/15/2011 1622

Date Received: 11/17/2011 1010

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-29662	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bkin015.d
Dilution:	90.4			Initial Weight/Volume:	38 mL
Analysis Date:	11/28/2011 2135			Final Weight/Volume:	200 mL
Prep Date:	11/28/2011 2135			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	45	U	3.4	45
1,2-Dichlorotetrafluoroethane	18	U	2.9	18
Vinyl chloride	18	U	2.6	18
1,3-Butadiene	18	U	0.90	18
Bromomethane	18	U	1.1	18
Chloroethane	45	U	1.4	45
Bromoethene(Vinyl Bromide)	18	U	1.7	18
Trichlorofluoromethane	18	U	3.1	18
1,1-Dichloroethene	18	U	2.7	18
3-Chloropropene	45	U	1.7	45
Methylene Chloride	5.6	JB	1.2	45
Methyl tert-butyl ether	18	U	1.4	18
trans-1,2-Dichloroethene	18	U	2.9	18
n-Hexane	18	U	2.4	18
1,1-Dichloroethane	18	U	3.2	18
cis-1,2-Dichloroethene	18	U	1.3	18
1,2-Dichloroethene, Total	18	U	1.3	18
Chloroform	18	U	2.8	18
1,1,1-Trichloroethane	6.2	J	3.2	18
Cyclohexane	18	U	3.5	18
Carbon tetrachloride	18	U	3.0	18
2,2,4-Trimethylpentane	18	U	3.3	18
Benzene	18	U	1.6	18
1,2-Dichloroethane	18	U	2.8	18
n-Heptane	18	U	0.90	18
Trichloroethene	21		2.7	18
1,2-Dichloropropane	18	U	1.3	18
Bromodichloromethane	18	U	2.5	18
cis-1,3-Dichloropropene	18	U	1.4	18
Toluene	18	U	1.6	18
trans-1,3-Dichloropropene	18	U	1.8	18
1,1,2-Trichloroethane	18	U	1.7	18
Tetrachloroethene	1700		0.99	18
Dibromochloromethane	18	U	1.9	18
1,2-Dibromoethane	18	U	1.6	18
Ethylbenzene	18	U	2.0	18
m,p-Xylene	45	U	4.3	45
Xylene, o-	18	U	2.0	18
Xylene (total)	18	U	2.0	18
Bromoform	18	U	1.7	18
1,1,2,2-Tetrachloroethane	18	U	3.6	18
4-Ethyltoluene	18	U	4.2	18
1,3,5-Trimethylbenzene	18	U	4.6	18

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	220	U	17	220

Analytical Data

Client: Brown and Caldwell

Job Number: 200-8242-1

Sdg Number: 200-8242

Client Sample ID: DUP-111611

Lab Sample ID: 200-8242-10

Client Matrix: Air

Date Sampled: 11/15/2011 1622

Date Received: 11/17/2011 1010

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-29662	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bkin015.d
Dilution:	90.4			Initial Weight/Volume:	38 mL
Analysis Date:	11/28/2011 2135			Final Weight/Volume:	200 mL
Prep Date:	11/28/2011 2135			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
1,2-Dichlorotetrafluoroethane	130	U	20	130
Vinyl chloride	46	U	6.7	46
1,3-Butadiene	40	U	2.0	40
Bromomethane	70	U	4.2	70
Chloroethane	120	U	3.8	120
Bromoethene(Vinyl Bromide)	79	U	7.5	79
Trichlorofluoromethane	100	U	17	100
1,1-Dichloroethene	72	U	11	72
3-Chloropropene	140	U	5.4	140
Methylene Chloride	20	U	4.4	160
Methyl tert-butyl ether	65	U	5.2	65
trans-1,2-Dichloroethene	72	U	11	72
n-Hexane	64	U	8.3	64
1,1-Dichloroethane	73	U	13	73
cis-1,2-Dichloroethene	72	U	5.0	72
1,2-Dichloroethene, Total	72	U	5.0	72
Chloroform	88	U	14	88
1,1,1-Trichloroethane	34	J	17	99
Cyclohexane	62	U	12	62
Carbon tetrachloride	110	U	19	110
2,2,4-Trimethylpentane	84	U	15	84
Benzene	58	U	5.2	58
1,2-Dichloroethane	73	U	11	73
n-Heptane	74	U	3.7	74
Trichloroethene	110	U	15	97
1,2-Dichloropropane	84	U	5.8	84
Bromodichloromethane	120	U	17	120
cis-1,3-Dichloropropene	82	U	6.6	82
Toluene	68	U	6.1	68
trans-1,3-Dichloropropene	82	U	8.2	82
1,1,2-Trichloroethane	99	U	9.4	99
Tetrachloroethene	12000	U	6.7	120
Dibromochloromethane	150	U	16	150
1,2-Dibromoethane	140	U	13	140
Ethylbenzene	79	U	8.6	79
m,p-Xylene	200	U	19	200
Xylene, o-	79	U	8.6	79
Xylene (total)	79	U	8.6	79
Bromoform	190	U	18	190
1,1,2,2-Tetrachloroethane	120	U	25	120
4-Ethyltoluene	89	U	20	89
1,3,5-Trimethylbenzene	89	U	23	89

Analytical Data

Client: Brown and Caldwell

Job Number: 200-8242-1

Sdg Number: 200-8242

Client Sample ID: SV-02

Lab Sample ID: 200-8242-11

Date Sampled: 11/15/2011 1627

Client Matrix: Air

Date Received: 11/17/2011 1010

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-29662	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bkin016.d
Dilution:	6.9			Initial Weight/Volume:	29 mL
Analysis Date:	11/28/2011 2227			Final Weight/Volume:	200 mL
Prep Date:	11/28/2011 2227			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	0.56	J	0.26	3.5
1,2-Dichlorotetrafluoroethane	1.4	U	0.22	1.4
Vinyl chloride	1.4	U	0.20	1.4
1,3-Butadiene	1.4	U	0.069	1.4
Bromomethane	1.4	U	0.083	1.4
Chloroethane	3.5	U	0.11	3.5
Bromoethene(Vinyl Bromide)	1.4	U	0.13	1.4
Trichlorofluoromethane	0.27	J	0.23	1.4
1,1-Dichloroethene	1.4	U	0.21	1.4
3-Chloropropene	3.5	U	0.13	3.5
Methylene Chloride	0.48	J-B	0.090	3.5
Methyl tert-butyl ether	1.4	U	0.11	1.4
trans-1,2-Dichloroethene	1.4	U	0.22	1.4
n-Hexane	0.36	J	0.18	1.4
1,1-Dichloroethane	2.1		0.24	1.4
cis-1,2-Dichloroethene	0.84	J	0.097	1.4
1,2-Dichloroethene, Total	0.84	J	0.097	1.4
Chloroform	1.4	U	0.21	1.4
1,1,1-Trichloroethane	19		0.24	1.4
Cyclohexane	0.59	J	0.27	1.4
Carbon tetrachloride	1.4	U	0.23	1.4
2,2,4-Trimethylpentane	1.4	U	0.25	1.4
Benzene	0.53	J	0.12	1.4
1,2-Dichloroethane	1.4	U	0.21	1.4
n-Heptane	0.62	J	0.069	1.4
Trichloroethene	5.9		0.21	1.4
1,2-Dichloropropane	1.4	U	0.097	1.4
Bromodichloromethane	1.4	U	0.19	1.4
cis-1,3-Dichloropropene	1.4	U	0.11	1.4
Toluene	1.3	J	0.12	1.4
trans-1,3-Dichloropropene	1.4	U	0.14	1.4
1,1,2-Trichloroethane	1.4	U	0.13	1.4
Tetrachloroethene	130		0.076	1.4
Dibromochloromethane	1.4	U	0.14	1.4
1,2-Dibromoethane	1.4	U	0.12	1.4
Ethylbenzene	0.50	J	0.15	1.4
m,p-Xylene	1.5	J	0.33	3.5
Xylene, o-	0.89	J	0.15	1.4
Xylene (total)	2.4		0.15	1.4
Bromoform	1.4	U	0.13	1.4
1,1,2,2-Tetrachloroethane	1.4	U	0.28	1.4
4-Ethyltoluene	0.45	J	0.32	1.4
1,3,5-Trimethylbenzene	0.64	J	0.35	1.4

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	2.8	J	1.3	17

Analytical Data

Client: Brown and Caldwell

Job Number: 200-8242-1

Sdg Number: 200-8242

Client Sample ID: SV-02

Lab Sample ID: 200-8242-11

Date Sampled: 11/15/2011 1627

Client Matrix: Air

Date Received: 11/17/2011 1010

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-29662	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bkin016.d
Dilution:	6.9			Initial Weight/Volume:	29 mL
Analysis Date:	11/28/2011 2227			Final Weight/Volume:	200 mL
Prep Date:	11/28/2011 2227			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
1,2-Dichlorotetrafluoroethane	9.6	U	1.5	9.6
Vinyl chloride	3.5	U	0.51	3.5
1,3-Butadiene	3.1	U	0.15	3.1
Bromomethane	5.4	U	0.32	5.4
Chloroethane	9.1	U	0.29	9.1
Bromoethene(Vinyl Bromide)	6.0	U	0.57	6.0
Trichlorofluoromethane	1.5	J	1.3	7.8
1,1-Dichloroethene	5.5	U	0.82	5.5
3-Chloropropene	11	U	0.41	11
Methylene Chloride	1.7	U	0.34	12
Methyl tert-butyl ether	5.0	U	0.40	5.0
trans-1,2-Dichloroethene	5.5	U	0.88	5.5
n-Hexane	1.3	J	0.63	4.9
1,1-Dichloroethane	8.4		0.98	5.6
cis-1,2-Dichloroethene	3.3	J	0.38	5.5
1,2-Dichloroethene, Total	3.3	J	0.38	5.5
Chloroform	6.7	U	1.0	6.7
1,1,1-Trichloroethane	110		1.3	7.5
Cyclohexane	2.0	J	0.93	4.8
Carbon tetrachloride	8.7	U	1.4	8.7
2,2,4-Trimethylpentane	6.4	U	1.2	6.4
Benzene	1.7	J	0.40	4.4
1,2-Dichloroethane	5.6	U	0.87	5.6
n-Heptane	2.5	J	0.28	5.7
Trichloroethene	32		1.1	7.4
1,2-Dichloropropane	6.4	U	0.45	6.4
Bromodichloromethane	9.2	U	1.3	9.2
cis-1,3-Dichloropropene	6.3	U	0.50	6.3
Toluene	4.9	J	0.47	5.2
trans-1,3-Dichloropropene	6.3	U	0.63	6.3
1,1,2-Trichloroethane	7.5	U	0.72	7.5
Tetrachloroethene	900		0.51	9.4
Dibromochloromethane	12	U	1.2	12
1,2-Dibromoethane	11	U	0.95	11
Ethylbenzene	2.2	J	0.66	6.0
m,p-Xylene	6.4	J	1.4	15
Xylene, o-	3.8	J	0.66	6.0
Xylene (total)	10		0.66	6.0
Bromoform	14	U	1.4	14
1,1,2,2-Tetrachloroethane	9.5	U	1.9	9.5
4-Ethyltoluene	2.2	J	1.6	6.8
1,3,5-Trimethylbenzene	3.1	J	1.7	6.8

Analytical Data

Client: Brown and Caldwell

Job Number: 200-8242-1

Sdg Number: 200-8242

Client Sample ID: SV-03

Lab Sample ID: 200-8242-12

Date Sampled: 11/15/2011 1628

Client Matrix: Air

Date Received: 11/17/2011 1010

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-29662	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bkin017.d
Dilution:	6.06			Initial Weight/Volume:	33 mL
Analysis Date:	11/28/2011 2320			Final Weight/Volume:	200 mL
Prep Date:	11/28/2011 2320			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	0.55	J	0.23	3.0
1,2-Dichlorotetrafluoroethane	1.2	U	0.19	1.2
Vinyl chloride	1.2	U	0.18	1.2
1,3-Butadiene	1.2	U	0.061	1.2
Bromomethane	1.2	U	0.073	1.2
Chloroethane	3.0	U	0.097	3.0
Bromoethene(Vinyl Bromide)	1.2	U	0.12	1.2
Trichlorofluoromethane	1.2	U	0.21	1.2
1,1-Dichloroethene	1.2	U	0.18	1.2
3-Chloropropene	3.0	U	0.12	3.0
Methylene Chloride	0.60	J-B	0.079	3.0
Methyl tert-butyl ether	1.2	U	0.097	1.2
trans-1,2-Dichloroethene	1.2	U	0.19	1.2
n-Hexane	0.28	J	0.16	1.2
1,1-Dichloroethane	0.22	J	0.21	1.2
cis-1,2-Dichloroethene	1.2	U	0.085	1.2
1,2-Dichloroethene, Total	1.2	U	0.085	1.2
Chloroform	1.2	U	0.19	1.2
1,1,1-Trichloroethane	5.2		0.21	1.2
Cyclohexane	1.2	U	0.24	1.2
Carbon tetrachloride	1.2	U	0.20	1.2
2,2,4-Trimethylpentane	1.2	U	0.22	1.2
Benzene	0.37	J	0.11	1.2
1,2-Dichloroethane	1.2	U	0.19	1.2
n-Heptane	0.35	J	0.061	1.2
Trichloroethene	4.0		0.18	1.2
1,2-Dichloropropane	1.2	U	0.085	1.2
Bromodichloromethane	1.2	U	0.17	1.2
cis-1,3-Dichloropropene	1.2	U	0.097	1.2
Toluene	1.1	J	0.11	1.2
trans-1,3-Dichloropropene	1.2	U	0.12	1.2
1,1,2-Trichloroethane	1.2	U	0.12	1.2
Tetrachloroethene	130		0.067	1.2
Dibromochloromethane	1.2	U	0.13	1.2
1,2-Dibromoethane	1.2	U	0.11	1.2
Ethylbenzene	0.31	J	0.13	1.2
m,p-Xylene	0.87	J	0.29	3.0
Xylene, o-	0.41	J	0.13	1.2
Xylene (total)	1.3		0.13	1.2
Bromoform	1.2	U	0.12	1.2
1,1,2,2-Tetrachloroethane	1.2	U	0.24	1.2
4-Ethyltoluene	1.2	U	0.28	1.2
1,3,5-Trimethylbenzene	1.2	U	0.31	1.2

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	2.7	J	1.1	15

Analytical Data

Client: Brown and Caldwell

Job Number: 200-8242-1

Sdg Number: 200-8242

Client Sample ID: SV-03

Lab Sample ID: 200-8242-12

Date Sampled: 11/15/2011 1628

Client Matrix: Air

Date Received: 11/17/2011 1010

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-29662	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bkin017.d
Dilution:	6.06			Initial Weight/Volume:	33 mL
Analysis Date:	11/28/2011 2320			Final Weight/Volume:	200 mL
Prep Date:	11/28/2011 2320			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
1,2-Dichlorotetrafluoroethane	8.5	U	1.4	8.5
Vinyl chloride	3.1	U	0.45	3.1
1,3-Butadiene	2.7	U	0.13	2.7
Bromomethane	4.7	U	0.28	4.7
Chloroethane	8.0	U	0.26	8.0
Bromoethene(Vinyl Bromide)	5.3	U	0.50	5.3
Trichlorofluoromethane	6.8	U	1.2	6.8
1,1-Dichloroethene	4.8	U	0.72	4.8
3-Chloropropene	9.5	U	0.36	9.5
Methylene Chloride	2.1	JB U	0.27	11
Methyl tert-butyl ether	4.4	U	0.35	4.4
trans-1,2-Dichloroethene	4.8	U	0.77	4.8
n-Hexane	1.0	J	0.56	4.3
1,1-Dichloroethane	0.90	J	0.86	4.9
cis-1,2-Dichloroethene	4.8	U	0.34	4.8
1,2-Dichloroethene, Total	4.8	U	0.34	4.8
Chloroform	5.9	U	0.92	5.9
1,1,1-Trichloroethane	28		1.2	6.6
Cyclohexane	4.2	U	0.81	4.2
Carbon tetrachloride	7.6	U	1.3	7.6
2,2,4-Trimethylpentane	5.7	U	1.0	5.7
Benzene	1.2	J	0.35	3.9
1,2-Dichloroethane	4.9	U	0.76	4.9
n-Heptane	1.4	J	0.25	5.0
Trichloroethene	21		0.98	6.5
1,2-Dichloropropane	5.6	U	0.39	5.6
Bromodichloromethane	8.1	U	1.1	8.1
cis-1,3-Dichloropropene	5.5	U	0.44	5.5
Toluene	4.2	J	0.41	4.6
trans-1,3-Dichloropropene	5.5	U	0.55	5.5
1,1,2-Trichloroethane	6.6	U	0.63	6.6
Tetrachloroethene	890		0.45	8.2
Dibromochloromethane	10	U	1.1	10
1,2-Dibromoethane	9.3	U	0.84	9.3
Ethylbenzene	1.4	J	0.58	5.3
m,p-Xylene	3.8	J	1.3	13
Xylene, o-	1.8	J	0.58	5.3
Xylene (total)	5.5		0.58	5.3
Bromoform	13	U	1.2	13
1,1,2,2-Tetrachloroethane	8.3	U	1.7	8.3
4-Ethyltoluene	6.0	U	1.4	6.0
1,3,5-Trimethylbenzene	6.0	U	1.5	6.0

Analytical Data

Client: Brown and Caldwell

Job Number: 200-8242-1

Sdg Number: 200-8242

Client Sample ID: SV-04

Lab Sample ID: 200-8242-13

Date Sampled: 11/15/2011 1628

Client Matrix: Air

Date Received: 11/17/2011 1010

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-29662	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bkin018.d
Dilution:	49.9			Initial Weight/Volume:	78 mL
Analysis Date:	11/29/2011 0012			Final Weight/Volume:	200 mL
Prep Date:	11/29/2011 0012			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	6.8	J	1.9	25
1,2-Dichlorotetrafluoroethane	10	U	1.6	10
Vinyl chloride	10	U	1.4	10
1,3-Butadiene	10	U	0.50	10
Bromomethane	10	U	0.60	10
Chloroethane	25	U	0.80	25
Bromoethene(Vinyl Bromide)	10	U	0.95	10
Trichlorofluoromethane	2.5	J	1.7	10
1,1-Dichloroethene	10	U	1.5	10
3-Chloropropene	25	U	0.95	25
Methylene Chloride	3.0	J-B	0.65	25
Methyl tert-butyl ether	10	U	0.80	10
trans-1,2-Dichloroethene	10	U	1.6	10
n-Hexane	10	U	1.3	10
1,1-Dichloroethane	10	U	1.7	10
cis-1,2-Dichloroethene	10	U	0.70	10
1,2-Dichloroethene, Total	10	U	0.70	10
Chloroform	10	U	1.5	10
1,1,1-Trichloroethane	110		1.7	10
Cyclohexane	10	U	1.9	10
Carbon tetrachloride	10	U	1.6	10
2,2,4-Trimethylpentane	10	U	1.8	10
Benzene	10	U	0.90	10
1,2-Dichloroethane	10	U	1.5	10
n-Heptane	10	U	0.50	10
Trichloroethene	100		1.5	10
1,2-Dichloropropane	10	U	0.70	10
Bromodichloromethane	10	U	1.4	10
cis-1,3-Dichloropropene	10	U	0.80	10
Toluene	3.4	J	0.90	10
trans-1,3-Dichloropropene	10	U	1.0	10
1,1,2-Trichloroethane	10	U	0.95	10
Tetrachloroethene	1100		0.55	10
Dibromochloromethane	10	U	1.0	10
1,2-Dibromoethane	10	U	0.90	10
Ethylbenzene	10	U	1.1	10
m,p-Xylene	25	U	2.4	25
Xylene, o-	10	U	1.1	10
Xylene (total)	10	U	1.1	10
Bromoform	10	U	0.95	10
1,1,2,2-Tetrachloroethane	10	U	2.0	10
4-Ethyltoluene	10	U	2.3	10
1,3,5-Trimethylbenzene	10	U	2.5	10

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	34	J	9.4	120

Analytical Data

Client: Brown and Caldwell

Job Number: 200-8242-1

Sdg Number: 200-8242

Client Sample ID: SV-04

Lab Sample ID: 200-8242-13

Date Sampled: 11/15/2011 1628

Client Matrix: Air

Date Received: 11/17/2011 1010

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-29662	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bkin018.d
Dilution:	49.9			Initial Weight/Volume:	78 mL
Analysis Date:	11/29/2011 0012			Final Weight/Volume:	200 mL
Prep Date:	11/29/2011 0012			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
1,2-Dichlorotetrafluoroethane	70	U	11	70
Vinyl chloride	26	U	3.7	26
1,3-Butadiene	22	U	1.1	22
Bromomethane	39	U	2.3	39
Chloroethane	66	U	2.1	66
Bromoethene(Vinyl Bromide)	44	U	4.1	44
Trichlorofluoromethane	14	J	9.5	56
1,1-Dichloroethene	40	U	5.9	40
3-Chloropropene	78	U	3.0	78
Methylene Chloride	11	JB U	2.3	87
Methyl tert-butyl ether	36	U	2.9	36
trans-1,2-Dichloroethene	40	U	6.3	40
n-Hexane	35	U	4.6	35
1,1-Dichloroethane	40	U	7.1	40
cis-1,2-Dichloroethene	40	U	2.8	40
1,2-Dichloroethene, Total	40	U	2.8	40
Chloroform	49	U	7.6	49
1,1,1-Trichloroethane	610		9.5	54
Cyclohexane	34	U	6.7	34
Carbon tetrachloride	63	U	10	63
2,2,4-Trimethylpentane	47	U	8.4	47
Benzene	32	U	2.9	32
1,2-Dichloroethane	40	U	6.3	40
n-Heptane	41	U	2.0	41
Trichloroethene	540		8.0	54
1,2-Dichloropropane	46	U	3.2	46
Bromodichloromethane	67	U	9.4	67
cis-1,3-Dichloropropene	45	U	3.6	45
Toluene	13	J	3.4	38
trans-1,3-Dichloropropene	45	U	4.5	45
1,1,2-Trichloroethane	54	U	5.2	54
Tetrachloroethene	7500		3.7	68
Dibromochloromethane	85	U	8.9	85
1,2-Dibromoethane	77	U	6.9	77
Ethylbenzene	43	U	4.8	43
m,p-Xylene	110	U	10	110
Xylene, o-	43	U	4.8	43
Xylene (total)	43	U	4.8	43
Bromoform	100	U	9.8	100
1,1,2,2-Tetrachloroethane	69	U	14	69
4-Ethyltoluene	49	U	11	49
1,3,5-Trimethylbenzene	49	U	13	49

Analytical Data

Client: Brown and Caldwell

Job Number: 200-8242-1

Sdg Number: 200-8242

Client Sample ID: SV-06

Lab Sample ID: 200-8242-14

Date Sampled: 11/15/2011 1629

Client Matrix: Air

Date Received: 11/17/2011 1010

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-29662	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bkin019.d
Dilution:	80			Initial Weight/Volume:	48 mL
Analysis Date:	11/29/2011 0104			Final Weight/Volume:	200 mL
Prep Date:	11/29/2011 0104			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	40	U	3.0	40
1,2-Dichlorotetrafluoroethane	16	U	2.6	16
Vinyl chloride	16	U	2.3	16
1,3-Butadiene	16	U	0.80	16
Bromomethane	16	U	0.96	16
Chloroethane	40	U	1.3	40
Bromoethene(Vinyl Bromide)	16	U	1.5	16
Trichlorofluoromethane	16	U	2.7	16
1,1-Dichloroethene	16	U	2.4	16
3-Chloropropene	40	U	1.5	40
Methylene Chloride	4.8	U	1.0	40
Methyl tert-butyl ether	16	U	1.3	16
trans-1,2-Dichloroethene	16	U	2.6	16
n-Hexane	16	U	2.1	16
1,1-Dichloroethane	16	U	2.8	16
cis-1,2-Dichloroethene	2.3	J	1.1	16
1,2-Dichloroethene, Total	2.3	J	1.1	16
Chloroform	16	U	2.5	16
1,1,1-Trichloroethane	75		2.8	16
Cyclohexane	16	U	3.1	16
Carbon tetrachloride	16	U	2.6	16
2,2,4-Trimethylpentane	16	U	2.9	16
Benzene	16	U	1.4	16
1,2-Dichloroethane	16	U	2.5	16
n-Heptane	16	U	0.80	16
Trichloroethene	31		2.4	16
1,2-Dichloropropane	16	U	1.1	16
Bromodichloromethane	16	U	2.2	16
cis-1,3-Dichloropropene	16	U	1.3	16
Toluene	16	U	1.4	16
trans-1,3-Dichloropropene	16	U	1.6	16
1,1,2-Trichloroethane	16	U	1.5	16
Tetrachloroethene	1900		0.88	16
Dibromochloromethane	16	U	1.7	16
1,2-Dibromoethane	16	U	1.4	16
Ethylbenzene	16	U	1.8	16
m,p-Xylene	40	U	3.8	40
Xylene, o-	16	U	1.8	16
Xylene (total)	16	U	1.8	16
Bromoform	16	U	1.5	16
1,1,2,2-Tetrachloroethane	16	U	3.2	16
4-Ethyltoluene	16	U	3.7	16
1,3,5-Trimethylbenzene	16	U	4.1	16

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	200	U	15	200

Analytical Data

Client: Brown and Caldwell

Job Number: 200-8242-1

Sdg Number: 200-8242

Client Sample ID: SV-05

Lab Sample ID: 200-8242-14

Date Sampled: 11/15/2011 1629

Client Matrix: Air

Date Received: 11/17/2011 1010

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-29662	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bkin019.d
Dilution:	80			Initial Weight/Volume:	48 mL
Analysis Date:	11/29/2011 0104			Final Weight/Volume:	200 mL
Prep Date:	11/29/2011 0104			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
1,2-Dichlorotetrafluoroethane	110	U	18	110
Vinyl chloride	41	U	5.9	41
1,3-Butadiene	35	U	1.8	35
Bromomethane	62	U	3.7	62
Chloroethane	110	U	3.4	110
Bromoethene(Vinyl Bromide)	70	U	6.6	70
Trichlorofluoromethane	90	U	15	90
1,1-Dichloroethene	63	U	9.5	63
3-Chloropropene	130	U	4.8	130
Methylene Chloride	17	U	3.8	140
Methyl tert-butyl ether	58	U	4.6	58
trans-1,2-Dichloroethene	63	U	10	63
n-Hexane	56	U	7.3	56
1,1-Dichloroethane	65	U	11	65
cis-1,2-Dichloroethene	9.0	J	4.4	63
1,2-Dichloroethene, Total	9.0	J	4.4	63
Chloroform	78	U	12	78
1,1,1-Trichloroethane	410		15	87
Cyclohexane	55	U	11	55
Carbon tetrachloride	100	U	17	100
2,2,4-Trimethylpentane	75	U	13	75
Benzene	51	U	4.6	51
1,2-Dichloroethane	65	U	10	65
n-Heptane	66	U	3.3	66
Trichloroethene	170		13	86
1,2-Dichloropropane	74	U	5.2	74
Bromodichloromethane	110	U	15	110
cis-1,3-Dichloropropene	73	U	5.8	73
Toluene	60	U	5.4	60
trans-1,3-Dichloropropene	73	U	7.3	73
1,1,2-Trichloroethane	87	U	8.3	87
Tetrachloroethene	13000		6.0	110
Dibromochloromethane	140	U	14	140
1,2-Dibromoethane	120	U	11	120
Ethylbenzene	69	U	7.6	69
m,p-Xylene	170	U	17	170
Xylene, o-	69	U	7.6	69
Xylene (total)	69	U	7.6	69
Bromoform	170	U	16	170
1,1,2,2-Tetrachloroethane	110	U	22	110
4-Ethyltoluene	79	U	18	79
1,3,5-Trimethylbenzene	79	U	20	79

Analytical Data

Client: Brown and Caldwell

Job Number: 200-8242-1

Sdg Number: 200-8242

Client Sample ID: IA-01

Lab Sample ID: 200-8242-1

Date Sampled: 11/15/2011 1536

Client Matrix: Air

Date Received: 11/17/2011 1010

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-29652	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eeqc010.d
Dilution:	4.0			Initial Weight/Volume:	125 mL
Analysis Date:	11/28/2011 1710			Final Weight/Volume:	500 mL
Prep Date:	11/28/2011 1710			Injection Volume:	500 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	0.55		0.040	0.040
1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.040
Vinyl chloride	0.080	U	0.080	0.080
1,3-Butadiene	0.080	U	0.080	0.080
Bromomethane	0.080	U	0.080	0.080
Chloroethane	0.080	U	0.080	0.080
Bromoethene(Vinyl Bromide)	0.080	U	0.080	0.080
Trichlorofluoromethane	0.22		0.040	0.040
1,1-Dichloroethene	0.040	U	0.040	0.040
3-Chloropropene	0.080	U	0.080	0.080
Methylene Chloride	0.40	U	0.40	0.40
Methyl tert-butyl ether	0.040	U	0.040	0.040
trans-1,2-Dichloroethene	0.040	U	0.040	0.040
n-Hexane	0.19		0.080	0.080
1,1-Dichloroethane	0.040	U	0.040	0.040
cis-1,2-Dichloroethene	0.040	U	0.040	0.040
Chloroform	0.040	U	0.040	0.040
1,1,1-Trichloroethane	0.041		0.040	0.040
Cyclohexane	0.097		0.040	0.040
Carbon tetrachloride	0.067		0.040	0.040
2,2,4-Trimethylpentane	0.14		0.040	0.040
Benzene	0.31		0.040	0.040
1,2-Dichloroethane	0.080	U	0.080	0.080
n-Heptane	0.13		0.040	0.040
Trichloroethene	0.094		0.040	0.040
1,2-Dichloropropane	0.080	U	0.080	0.080
Bromodichloromethane	0.040	U	0.040	0.040
cis-1,3-Dichloropropene	0.040	U	0.040	0.040
Toluene	1.1		0.040	0.040
trans-1,3-Dichloropropene	0.040	U	0.040	0.040
1,1,2-Trichloroethane	0.040	U	0.040	0.040
Tetrachloroethene	0.68		0.040	0.040
Dibromochloromethane	0.040	U	0.040	0.040
1,2-Dibromoethane	0.040	U	0.040	0.040
Ethylbenzene	0.096		0.040	0.040
o-Xylene	0.095		0.040	0.040
Bromoform	0.040	U	0.040	0.040
1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
4-Ethyltoluene	0.040	U	0.040	0.040
1,3,5-Trimethylbenzene	0.080	U	0.080	0.080
1,2-Dichloroethene, Total	0.040	U	0.040	0.040
m-Xylene & p-Xylene	0.30		0.040	0.040
Xylenes, Total	0.39		0.040	0.040

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	2.7		0.20	0.20

Analytical Data

Client: Brown and Caldwell

Job Number: 200-8242-1

Sdg Number: 200-8242

Client Sample ID: IA-01

Lab Sample ID: 200-8242-1

Date Sampled: 11/15/2011 1536

Client Matrix: Air

Date Received: 11/17/2011 1010

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-29652	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eeqc010.d
Dilution:	4.0			Initial Weight/Volume:	125 mL
Analysis Date:	11/28/2011 1710			Final Weight/Volume:	500 mL
Prep Date:	11/28/2011 1710			Injection Volume:	500 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
1,2-Dichlorotetrafluoroethane	0.28	U	0.28	0.28
Vinyl chloride	0.20	U	0.20	0.20
1,3-Butadiene	0.18	U	0.18	0.18
Bromomethane	0.31	U	0.31	0.31
Chloroethane	0.21	U	0.21	0.21
Bromoethene(Vinyl Bromide)	0.35	U	0.35	0.35
Trichlorofluoromethane	1.3		0.22	0.22
1,1-Dichloroethene	0.16	U	0.16	0.16
3-Chloropropene	0.25	U	0.25	0.25
Methylene Chloride	1.4	U	1.4	1.4
Methyl tert-butyl ether	0.14	U	0.14	0.14
trans-1,2-Dichloroethene	0.16	U	0.16	0.16
n-Hexane	0.69		0.28	0.28
1,1-Dichloroethane	0.16	U	0.16	0.16
cis-1,2-Dichloroethene	0.16	U	0.16	0.16
Chloroform	0.20	U	0.20	0.20
1,1,1-Trichloroethane	0.23		0.22	0.22
Cyclohexane	0.33		0.14	0.14
Carbon tetrachloride	0.42		0.25	0.25
2,2,4-Trimethylpentane	0.68		0.19	0.19
Benzene	0.99		0.13	0.13
1,2-Dichloroethane	0.32	U	0.32	0.32
n-Heptane	0.51		0.16	0.16
Trichloroethene	0.50		0.21	0.21
1,2-Dichloropropane	0.37	U	0.37	0.37
Bromodichloromethane	0.27	U	0.27	0.27
cis-1,3-Dichloropropene	0.18	U	0.18	0.18
Toluene	4.3		0.15	0.15
trans-1,3-Dichloropropene	0.18	U	0.18	0.18
1,1,2-Trichloroethane	0.22	U	0.22	0.22
Tetrachloroethene	4.6		0.27	0.27
Dibromochloromethane	0.34	U	0.34	0.34
1,2-Dibromoethane	0.31	U	0.31	0.31
Ethylbenzene	0.41		0.17	0.17
o-Xylene	0.41		0.17	0.17
Bromoform	0.41	U	0.41	0.41
1,1,2,2-Tetrachloroethane	0.27	U	0.27	0.27
4-Ethyltoluene	0.20	U	0.20	0.20
1,3,5-Trimethylbenzene	0.39	U	0.39	0.39
1,2-Dichloroethene, Total	0.16	U	0.16	0.16
m-Xylene & p-Xylene	1.3		0.17	0.17
Xylenes, Total	1.7		0.17	0.17

Analytical Data

Client: Brown and Caldwell

Job Number: 200-8242-1

Sdg Number: 200-8242

Client Sample ID: IA-02

Lab Sample ID: 200-8242-4

Date Sampled: 11/15/2011 1539

Client Matrix: Air

Date Received: 11/17/2011 1010

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-29652	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eeqc011.d
Dilution:	4.0			Initial Weight/Volume:	125 mL
Analysis Date:	11/28/2011 1804			Final Weight/Volume:	500 mL
Prep Date:	11/28/2011 1804			Injection Volume:	500 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	0.50		0.040	0.040
1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.040
Vinyl chloride	0.080	U	0.080	0.080
1,3-Butadiene	0.080	U	0.080	0.080
Bromomethane	0.080	U	0.080	0.080
Chloroethane	0.080	U	0.080	0.080
Bromoethene(Vinyl Bromide)	0.080	U	0.080	0.080
Trichlorofluoromethane	0.24		0.040	0.040
1,1-Dichloroethene	0.040	U	0.040	0.040
3-Chloropropene	0.080	U	0.080	0.080
Methylene Chloride	0.40	U	0.40	0.40
Methyl tert-butyl ether	0.040	U	0.040	0.040
trans-1,2-Dichloroethene	0.040	U	0.040	0.040
n-Hexane	0.22		0.080	0.080
1,1-Dichloroethane	0.040	U	0.040	0.040
cis-1,2-Dichloroethene	0.040	U	0.040	0.040
Chloroform	0.040	U	0.040	0.040
1,1,1-Trichloroethane	0.040	U	0.040	0.040
Cyclohexane	0.11		0.040	0.040
Carbon tetrachloride	0.069		0.040	0.040
2,2,4-Trimethylpentane	0.11		0.040	0.040
Benzene	0.32		0.040	0.040
1,2-Dichloroethane	0.080	U	0.080	0.080
n-Heptane	0.15		0.040	0.040
Trichloroethene	0.074		0.040	0.040
1,2-Dichloropropane	0.080	U	0.080	0.080
Bromodichloromethane	0.040	U	0.040	0.040
cis-1,3-Dichloropropene	0.040	U	0.040	0.040
Toluene	1.3		0.040	0.040
trans-1,3-Dichloropropene	0.040	U	0.040	0.040
1,1,2-Trichloroethane	0.040	U	0.040	0.040
Tetrachloroethene	0.58		0.040	0.040
Dibromochloromethane	0.040	U	0.040	0.040
1,2-Dibromoethane	0.040	U	0.040	0.040
Ethylbenzene	0.094		0.040	0.040
o-Xylene	0.11		0.040	0.040
Bromoform	0.040	U	0.040	0.040
1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
4-Ethyltoluene	0.040	U	0.040	0.040
1,3,5-Trimethylbenzene	0.080	U	0.080	0.080
1,2-Dichloroethene, Total	0.040	U	0.040	0.040
m-Xylene & p-Xylene	0.31		0.040	0.040
Xylenes, Total	0.42		0.040	0.040

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	2.5		0.20	0.20

Analytical Data

Client: Brown and Caldwell

Job Number: 200-8242-1

Sdg Number: 200-8242

Client Sample ID: IA-02

Lab Sample ID: 200-8242-4

Date Sampled: 11/15/2011 1539

Client Matrix: Air

Date Received: 11/17/2011 1010

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-29652	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eeqc011.d
Dilution:	4.0			Initial Weight/Volume:	125 mL
Analysis Date:	11/28/2011 1804			Final Weight/Volume:	500 mL
Prep Date:	11/28/2011 1804			Injection Volume:	500 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
1,2-Dichlorotetrafluoroethane	0.28	U	0.28	0.28
Vinyl chloride	0.20	U	0.20	0.20
1,3-Butadiene	0.18	U	0.18	0.18
Bromomethane	0.31	U	0.31	0.31
Chloroethane	0.21	U	0.21	0.21
Bromoethene(Vinyl Bromide)	0.35	U	0.35	0.35
Trichlorofluoromethane	1.3		0.22	0.22
1,1-Dichloroethene	0.16	U	0.16	0.16
3-Chloropropene	0.25	U	0.25	0.25
Methylene Chloride	1.4	U	1.4	1.4
Methyl tert-butyl ether	0.14	U	0.14	0.14
trans-1,2-Dichloroethene	0.16	U	0.16	0.16
n-Hexane	0.77		0.28	0.28
1,1-Dichloroethane	0.16	U	0.16	0.16
cis-1,2-Dichloroethene	0.16	U	0.16	0.16
Chloroform	0.20	U	0.20	0.20
1,1,1-Trichloroethane	0.22	U	0.22	0.22
Cyclohexane	0.38		0.14	0.14
Carbon tetrachloride	0.44		0.25	0.25
2,2,4-Trimethylpentane	0.50		0.19	0.19
Benzene	1.0		0.13	0.13
1,2-Dichloroethane	0.32	U	0.32	0.32
n-Heptane	0.60		0.16	0.16
Trichloroethene	0.40		0.21	0.21
1,2-Dichloropropane	0.37	U	0.37	0.37
Bromodichloromethane	0.27	U	0.27	0.27
cis-1,3-Dichloropropene	0.18	U	0.18	0.18
Toluene	4.7		0.15	0.15
trans-1,3-Dichloropropene	0.18	U	0.18	0.18
1,1,2-Trichloroethane	0.22	U	0.22	0.22
Tetrachloroethene	3.9		0.27	0.27
Dibromochloromethane	0.34	U	0.34	0.34
1,2-Dibromoethane	0.31	U	0.31	0.31
Ethylbenzene	0.41		0.17	0.17
o-Xylene	0.47		0.17	0.17
Bromoform	0.41	U	0.41	0.41
1,1,2,2-Tetrachloroethane	0.27	U	0.27	0.27
4-Ethyltoluene	0.20	U	0.20	0.20
1,3,5-Trimethylbenzene	0.39	U	0.39	0.39
1,2-Dichloroethene, Total	0.16	U	0.16	0.16
m-Xylene & p-Xylene	1.4		0.17	0.17
Xylenes, Total	1.8		0.17	0.17

Analytical Data

Client: Brown and Caldwell

Job Number: 200-8242-1
Sdg Number: 200-8242

Client Sample ID: IA-03

Lab Sample ID: 200-8242-6

Client Matrix: Air

Date Sampled: 11/15/2011 1600

Date Received: 11/17/2011 1010

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-29652	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eeqc012.d
Dilution:	4.0			Initial Weight/Volume:	125 mL
Analysis Date:	11/28/2011 1858			Final Weight/Volume:	500 mL
Prep Date:	11/28/2011 1858			Injection Volume:	500 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	0.58		0.040	0.040
1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.040
Vinyl chloride	0.080	U	0.080	0.080
1,3-Butadiene	0.080	U	0.080	0.080
Bromomethane	0.080	U	0.080	0.080
Chloroethane	0.080	U	0.080	0.080
Bromoethene(Vinyl Bromide)	0.080	U	0.080	0.080
Trichlorofluoromethane	0.23		0.040	0.040
1,1-Dichloroethene	0.040	U	0.040	0.040
3-Chloropropene	0.080	U	0.080	0.080
Methylene Chloride	0.40	U	0.40	0.40
Methyl tert-butyl ether	0.040	U	0.040	0.040
trans-1,2-Dichloroethene	0.040	U	0.040	0.040
n-Hexane	0.19		0.080	0.080
1,1-Dichloroethane	0.040	U	0.040	0.040
cis-1,2-Dichloroethene	0.040	U	0.040	0.040
Chloroform	0.19		0.040	0.040
1,1,1-Trichloroethane	0.056		0.040	0.040
Cyclohexane	0.094		0.040	0.040
Carbon tetrachloride	0.068		0.040	0.040
2,2,4-Trimethylpentane	0.11		0.040	0.040
Benzene	0.31		0.040	0.040
1,2-Dichloroethane	0.080	U	0.080	0.080
n-Heptane	0.10		0.040	0.040
Trichloroethene	0.12		0.040	0.040
1,2-Dichloropropane	0.080	U	0.080	0.080
Bromodichloromethane	0.040	U	0.040	0.040
cis-1,3-Dichloropropene	0.040	U	0.040	0.040
Toluene	0.88		0.040	0.040
trans-1,3-Dichloropropene	0.040	U	0.040	0.040
1,1,2-Trichloroethane	0.040	U	0.040	0.040
Tetrachloroethene	0.72		0.040	0.040
Dibromochloromethane	0.040	U	0.040	0.040
1,2-Dibromoethane	0.040	U	0.040	0.040
Ethylbenzene	0.094		0.040	0.040
o-Xylene	0.090		0.040	0.040
Bromoform	0.040	U	0.040	0.040
1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
4-Ethyltoluene	0.040	U	0.040	0.040
1,3,5-Trimethylbenzene	0.080	U	0.080	0.080
1,2-Dichloroethene, Total	0.040	U	0.040	0.040
m-Xylene & p-Xylene	0.31		0.040	0.040
Xylenes, Total	0.40		0.040	0.040

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	2.9		0.20	0.20

Analytical Data

Client: Brown and Caldwell

Job Number: 200-8242-1

Sdg Number: 200-8242

Client Sample ID: IA-03

Lab Sample ID: 200-8242-6

Date Sampled: 11/15/2011 1600

Client Matrix: Air

Date Received: 11/17/2011 1010

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-29652	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eeqc012.d
Dilution:	4.0			Initial Weight/Volume:	125 mL
Analysis Date:	11/28/2011 1858			Final Weight/Volume:	500 mL
Prep Date:	11/28/2011 1858			Injection Volume:	500 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
1,2-Dichlorotetrafluoroethane	0.28	U	0.28	0.28
Vinyl chloride	0.20	U	0.20	0.20
1,3-Butadiene	0.18	U	0.18	0.18
Bromomethane	0.31	U	0.31	0.31
Chloroethane	0.21	U	0.21	0.21
Bromoethene(Vinyl Bromide)	0.35	U	0.35	0.35
Trichlorofluoromethane	1.3		0.22	0.22
1,1-Dichloroethene	0.16	U	0.16	0.16
3-Chloropropene	0.25	U	0.25	0.25
Methylene Chloride	1.4	U	1.4	1.4
Methyl tert-butyl ether	0.14	U	0.14	0.14
trans-1,2-Dichloroethene	0.16	U	0.16	0.16
n-Hexane	0.66		0.28	0.28
1,1-Dichloroethane	0.16	U	0.16	0.16
cis-1,2-Dichloroethene	0.16	U	0.16	0.16
Chloroform	0.91		0.20	0.20
1,1,1-Trichloroethane	0.30		0.22	0.22
Cyclohexane	0.32		0.14	0.14
Carbon tetrachloride	0.43		0.25	0.25
2,2,4-Trimethylpentane	0.54		0.19	0.19
Benzene	0.99		0.13	0.13
1,2-Dichloroethane	0.32	U	0.32	0.32
n-Heptane	0.43		0.16	0.16
Trichloroethene	0.64		0.21	0.21
1,2-Dichloropropane	0.37	U	0.37	0.37
Bromodichloromethane	0.27	U	0.27	0.27
cis-1,3-Dichloropropene	0.18	U	0.18	0.18
Toluene	3.3		0.15	0.15
trans-1,3-Dichloropropene	0.18	U	0.18	0.18
1,1,2-Trichloroethane	0.22	U	0.22	0.22
Tetrachloroethene	4.9		0.27	0.27
Dibromochloromethane	0.34	U	0.34	0.34
1,2-Dibromoethane	0.31	U	0.31	0.31
Ethylbenzene	0.41		0.17	0.17
o-Xylene	0.39		0.17	0.17
Bromoform	0.41	U	0.41	0.41
1,1,2,2-Tetrachloroethane	0.27	U	0.27	0.27
4-Ethyltoluene	0.20	U	0.20	0.20
1,3,5-Trimethylbenzene	0.39	U	0.39	0.39
1,2-Dichloroethene, Total	0.16	U	0.16	0.16
m-Xylene & p-Xylene	1.3		0.17	0.17
Xylenes, Total	1.7		0.17	0.17

Analytical Data

Client: Brown and Caldwell

Job Number: 200-8242-1

Sdg Number: 200-8242

Client Sample ID: IA-04

Lab Sample ID: 200-8242-8

Date Sampled: 11/15/2011 1549

Client Matrix: Air

Date Received: 11/17/2011 1010

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-29652	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eeqc013.d
Dilution:	4.0			Initial Weight/Volume:	125 mL
Analysis Date:	11/28/2011 1952			Final Weight/Volume:	500 mL
Prep Date:	11/28/2011 1952			Injection Volume:	500 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	0.74		0.040	0.040
1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.040
Vinyl chloride	0.080	U	0.080	0.080
1,3-Butadiene	0.099		0.080	0.080
Bromomethane	0.080	U	0.080	0.080
Chloroethane	0.080	U	0.080	0.080
Bromoethene(Vinyl Bromide)	0.080	U	0.080	0.080
Trichlorofluoromethane	0.21		0.040	0.040
1,1-Dichloroethene	0.040	U	0.040	0.040
3-Chloropropene	0.080	U	0.080	0.080
Methylene Chloride	0.40	U	0.40	0.40
Methyl tert-butyl ether	0.040	U	0.040	0.040
trans-1,2-Dichloroethene	0.040	U	0.040	0.040
n-Hexane	0.22		0.080	0.080
1,1-Dichloroethane	0.040	U	0.040	0.040
cis-1,2-Dichloroethene	0.040	U	0.040	0.040
Chloroform	0.040	U	0.040	0.040
1,1,1-Trichloroethane	0.086		0.040	0.040
Cyclohexane	0.087		0.040	0.040
Carbon tetrachloride	0.070		0.040	0.040
2,2,4-Trimethylpentane	0.059		0.040	0.040
Benzene	0.40		0.040	0.040
1,2-Dichloroethane	0.080	U	0.080	0.080
n-Heptane	0.071		0.040	0.040
Trichloroethene	0.17		0.040	0.040
1,2-Dichloropropane	0.080	U	0.080	0.080
Bromodichloromethane	0.040	U	0.040	0.040
cis-1,3-Dichloropropene	0.040	U	0.040	0.040
Toluene	0.61		0.040	0.040
trans-1,3-Dichloropropene	0.040	U	0.040	0.040
1,1,2-Trichloroethane	0.040	U	0.040	0.040
Tetrachloroethene	0.47		0.040	0.040
Dibromochloromethane	0.040	U	0.040	0.040
1,2-Dibromoethane	0.040	U	0.040	0.040
Ethylbenzene	0.040	U	0.040	0.040
o-Xylene	0.040	U	0.040	0.040
Bromoform	0.040	U	0.040	0.040
1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
4-Ethyltoluene	0.040	U	0.040	0.040
1,3,5-Trimethylbenzene	0.080	U	0.080	0.080
1,2-Dichloroethene, Total	0.040	U	0.040	0.040
m-Xylene & p-Xylene	0.053		0.040	0.040
Xylenes, Total	0.083		0.040	0.040

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	3.7		0.20	0.20

Analytical Data

Client: Brown and Caldwell

Job Number: 200-8242-1

Sdg Number: 200-8242

Client Sample ID: IA-04

Lab Sample ID: 200-8242-8

Date Sampled: 11/15/2011 1549

Client Matrix: Air

Date Received: 11/17/2011 1010

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-29652	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eeqc013.d
Dilution:	4.0			Initial Weight/Volume:	125 mL
Analysis Date:	11/28/2011 1952			Final Weight/Volume:	500 mL
Prep Date:	11/28/2011 1952			Injection Volume:	500 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
1,2-Dichlorotetrafluoroethane	0.28	U	0.28	0.28
Vinyl chloride	0.20	U	0.20	0.20
1,3-Butadiene	0.22		0.18	0.18
Bromomethane	0.31	U	0.31	0.31
Chloroethane	0.21	U	0.21	0.21
Bromoethene(Vinyl Bromide)	0.35	U	0.35	0.35
Trichlorofluoromethane	1.2		0.22	0.22
1,1-Dichloroethene	0.16	U	0.16	0.16
3-Chloropropene	0.25	U	0.25	0.25
Methylene Chloride	1.4	U	1.4	1.4
Methyl tert-butyl ether	0.14	U	0.14	0.14
trans-1,2-Dichloroethene	0.16	U	0.16	0.16
n-Hexane	0.79		0.28	0.28
1,1-Dichloroethane	0.16	U	0.16	0.16
cis-1,2-Dichloroethene	0.16	U	0.16	0.16
Chloroform	0.20	U	0.20	0.20
1,1,1-Trichloroethane	0.47		0.22	0.22
Cyclohexane	0.30		0.14	0.14
Carbon tetrachloride	0.44		0.25	0.25
2,2,4-Trimethylpentane	0.28		0.19	0.19
Benzene	1.3		0.13	0.13
1,2-Dichloroethane	0.32	U	0.32	0.32
n-Heptane	0.29		0.16	0.16
Trichloroethene	0.90		0.21	0.21
1,2-Dichloropropane	0.37	U	0.37	0.37
Bromodichloromethane	0.27	U	0.27	0.27
cis-1,3-Dichloropropene	0.18	U	0.18	0.18
Toluene	2.3		0.15	0.15
trans-1,3-Dichloropropene	0.18	U	0.18	0.18
1,1,2-Trichloroethane	0.22	U	0.22	0.22
Tetrachloroethene	3.2		0.27	0.27
Dibromochloromethane	0.34	U	0.34	0.34
1,2-Dibromoethane	0.31	U	0.31	0.31
Ethylbenzene	0.17	U	0.17	0.17
o-Xylene	0.17	U	0.17	0.17
Bromoform	0.41	U	0.41	0.41
1,1,2,2-Tetrachloroethane	0.27	U	0.27	0.27
4-Ethyltoluene	0.20	U	0.20	0.20
1,3,5-Trimethylbenzene	0.39	U	0.39	0.39
1,2-Dichloroethene, Total	0.16	U	0.16	0.16
m-Xylene & p-Xylene	0.23		0.17	0.17
Xylenes, Total	0.36		0.17	0.17



**QUALITATIVE
DATA USABILITY REPORT
GE Bayshore Site
July 2011 Soil and Water**

SDG Nos.: 7186-1, 7321-1, 7481-1, 7605-1, and 7633-1
Laboratory: TestAmerica Buffalo, Amherst, New York
Site: Former Baron Blakeslee Site, Bay Shore, New York
Date: October 7, 2011

Samples

Data from the following samples were reviewed:

Laboratory ID	Client ID	Matrix
480-7186-1	GWP-1-14-16	Water
480-7186-2	GWP-1-24-26	Water
480-7186-3	GWP-1-34-36	Water
480-7186-4	GWP-1-44-46	Water
480-7186-5	GWP-1-54-56	Water
480-7186-6	GWP-1-62-64	Water
480-7186-7	GWP-2-8-10	Water
480-7186-8	GWP-2-18-20	Water
480-7186-9	GWP-2-28-30	Water
480-7186-10	DUP-071111 (GWP-2-28-30)	Water
480-7186-11	GWP-2-38-40	Water
480-7186-12	GWP-2-48-50	Water

480-7186-13	GWP-2-58-60	Water
480-7186-14	FB-071211	Water
480-7186-15	GWP-3-9-11	Water
480-7186-16	GWP-3-19-21	Water
480-7186-17	GWP-3-29-31	Water
480-7186-18	Trip Blank	Water
480-7321-1	GWP-3-39-41	Water
480-7321-2	GWP-3-49-51	Water
480-7321-3	GWP-3-59-61	Water
480-7321-4	FB-071311	Water
480-7321-5	GWP-4-8-10	Water
480-7321-6	GWP-4-18-20	Water
480-7321-7	GWP-4-28-30	Water
480-7321-8	GWP-4-38-40	Water
480-7321-9	GWP-4-48-50	Water
480-7321-10	GWP-4-58-60	Water
480-7321-11	GWP-5-8-10	Water
480-7321-12	GWP-5-18-20	Water
480-7321-13	GWP-5-28-30	Water
480-7321-14	GWP-5-38-40	Water
480-7321-15	GWP-5-48-50	Water
480-7321-16	DUP-071411 (GWP-5-48-50	Water
480-7321-17	GWP-5-58-6	Water
480-7321-18	Trip Blank	Water
480-7490-1	FB-071811	Water
480-7490-2	GWP-8-8-10	Water
480-7490-3	GWP-8-18-20	Water
480-7490-4	GWP-8-28-30	Water
480-7490-5	GWP-8-38-40	Water
480-7490-6	GWP-8-48-50	Water
480-7490-7	GWP-8-58-60	Water

480-7490-8	Trip Blank	Water
480-7605-1	FB-072011	Water
480-7605-2	GWP-10-10-12	Water
480-7605-3	GWP-10-20-22	Water
480-7605-4	GWP-10-30-32	Water
480-7605-5	GWP-10-40-42	Water
480-7605-6	GWP-10-50-52	Water
480-7605-7	GWP-10-60-62	Water
480-7605-8	DUP-072011 (GWP-10-40-42)	Water
480-7605-9	Trip Blank	Water
480-7605-10	FB-072111	Water
480-7605-11	GWP-9-10-12	Water
480-7605-12	SB-1-1.5-2.5	Soil
480-7605-13	SB-2-2.5-3.5	Soil
480-7605-14	SB-3-3-4	Soil
480-7605-15	SB-4-2-3	Soil
480-7605-16	FB-071911	Water
480-7605-17	DUP-071911 (SB-3-3-4)	Soil
480-7633-1	GWP-9-20-22	Water
480-7633-2	GWP-9-30-32	Water
480-7633-3	GWP-9-40-42	Water
480-7633-4	GWP-9-50-52	Water
480-7633-5	GWP-9-60-62	Water
480-7633-6	FB-072211	Water
480-7633-7	GWP-6-8-10	Water
480-7633-8	DUP-072211 (GWP-6-8-10)	Water
480-7633-9	GWP-6-18-20	Water
480-7633-10	GWP-6-28-30	Water
480-7633-11	GWP-6-38-40	Water
480-7633-12	GWP-6-48-50	Water
480-7633-13	GWP-6-58-60	Water

480-7633-14	Trip Blank	Water
480-7684-1	GWP-7-8-10	Water
480-7684-2	GWP-7-18-20	Water
480-7684-3	GWP-7-28-30	Water
480-7684-4	GWP-7-38-40	Water
480-7684-5	GWP-7-48-50	Water
480-7684-6	GWP-7-58-60	Water
480-7684-7	FB-072511	Water
480-7684-8	Trip Blank	Water

A Qualitative Data Usability Review was performed on all analytical data from SDG BTR01. The samples were collected at the Former Baron Blakeslee Site, in Bay Shore, Suffolk County, New York. The following table outlines the analytical methods used to analyze the samples;

Analysis

Volatile Organic Compounds (VOC)

Semi-volatile Organic Compounds (SVOC)

Metals (except mercury)

Mercury

Method

SW 846 8260B

SW 846 8270C

SW 846-6010B

SW 8463-7470A/7471A

This review was performed in accordance with NYSDEC Guidance for the Development of Data Usability Summary Reports (revised September 1997).

Data Package Completeness

- The data packages were received complete as defined under the requirements for the NYSDEC ASP Category B and USEPA CLP deliverables.

Chains of Custody

The Chains-of Custody (COCs) were reviewed for completeness and accuracy. There were no discrepancies noted and all requested analyses were performed.

Organics

The following were reviewed for the organic analyses in this report:

- Case narrative
- Analysis data sheets (Form 1's)
- Holding time and sample preservation
- Surrogate recoveries
- Matrix Spike/Matrix Spike duplicate (MS/MSD) recoveries
- Lab Control Sample/Lab Control Sample duplicate (LCS/LCSD) recoveries
- Blank contamination
- Gas Chromatography/Mass Spectroscopy (GC/MS) tuning
- Initial and continuing calibration summaries
- Internal Standard area and retention time summary forms
- Field duplicate precision
- GC 2nd column confirmation results

Inorganics

The following were reviewed for the organic analyses in this report:

- Case narrative
- Inorganic analysis data sheets (Form 1's)
- Holding time and sample preservation
- Blank contamination
- Initial and continuing calibration summaries
- ICP interference check sample recoveries
- Matrix Spike/Matrix Spike duplicate (MS/MSD) recoveries
- Lab Control Sample/Lab Control Sample duplicate (LCS/LCSD) recoveries
- Laboratory duplicate precision

- ICP serial dilution results
- Field duplicate precision

The items listed above were technically and contractually in compliance with the method and Work Plan requirements, with the exceptions discussed in the following text.

Volatiles by Method 8260B

Two compounds, acetone and methyl ethyl ketone had reporting limits (10 ug/L) above the maximum reporting limits listed in the work plan (5 ug/L). The data user should be aware of this discrepancy and should evaluate the impact this may have on data usability.

The recovery of chloroethane in the LCS was below control limits resulting in the qualification of chloroethane in the associated samples

Sample	Compound	Result (ug/L)	Qualifier
GWP-5-18-20	Chloroethane	<0.32	UJ
GWP-5-28-30	Chloroethane	<0.32	UJ

The recoveries of all spiked compounds in the matrix spike and matrix spike duplicate for sample GWP-6-58-60 were below control limits resulting in the qualification of all compounds in the associated sample.

Sample	Compound	Result (ug/L)	Qualifier
GWP-6-58-60	Ethylbenzene	<0.74	UJ
GWP-6-58-60	Styrene	<0.73	UJ
GWP-6-58-60	cis-1,3-Dichloropropene	<0.36	UJ
GWP-6-58-60	trans-1,3-Dichloropropene	<0.37	UJ
GWP-6-58-60	1,4-Dichlorobenzene	<0.84	UJ
GWP-6-58-60	1,2-Dibromoethane	<0.73	UJ
GWP-6-58-60	1,2-Dichloroethane	<0.21	UJ
GWP-6-58-60	4-Methyl-2-pentanone	<2.1	UJ
GWP-6-58-60	Methylcyclohexane	<0.16	UJ
GWP-6-58-60	Toluene	<0.51	UJ
GWP-6-58-60	Chlorobenzene	<0.75	UJ

GWP-6-58-60	Cyclohexane	<0.18	UJ
GWP-6-58-60	1,2,4-Trichlorobenzene	<0.41	UJ
GWP-6-58-60	Dibromochloromethane	<0.32	UJ
GWP-6-58-60	Tetrachloroethene	<0.36	UJ
GWP-6-58-60	Xylenes, total	<0.66	UJ
GWP-6-58-60	cis-1,2-Dichloroethene	<0.81	UJ
GWP-6-58-60	trans-1,2-Dichloroethene	<0.9	UJ
GWP-6-58-60	Tert-Butyl methyl ether	<0.16	UJ
GWP-6-58-60	1,3-Dichlorobenzene	<0.78	UJ
GWP-6-58-60	Carbon tetrachloride	<0.27	UJ
GWP-6-58-60	2-Hexanone	<1.2	UJ
GWP-6-58-60	Acetone	<3.0	UJ
GWP-6-58-60	Chloroform	<0.34	UJ
GWP-6-58-60	Benzene	<0.41	UJ
GWP-6-58-60	1,1,1-Trichloroethane	<0.82	UJ
GWP-6-58-60	Bromomethane	<0.69	UJ
GWP-6-58-60	Chloromethane	<0.35	UJ
GWP-6-58-60	Chloroethane	<0.32	UJ
GWP-6-58-60	Vinyl chloride	<0.9	UJ
GWP-6-58-60	Methylene chloride	<0.44	UJ
GWP-6-58-60	Carbon disulfide	<0.19	UJ
GWP-6-58-60	Bromoform	<0.26	UJ
GWP-6-58-60	Bromodichloromethane	<0.39	UJ
GWP-6-58-60	1,1-Dichloroethane	<0.38	UJ
GWP-6-58-60	1,1-Dichloroethene	<0.29	UJ
GWP-6-58-60	Trichlorofluoromethane	<0.88	UJ
GWP-6-58-60	Dichlorodifluoromethane	<0.68	UJ
GWP-6-58-60	1,1,2-Trichloro-1,2,2-trifluoromethane	<0.31	UJ
GWP-6-58-60	1,2-Dichloropropane	<0.72	UJ
GWP-6-58-60	2-Butanone	<1.3	UJ
GWP-6-58-60	1,1,2-Trichloroethane	<0.23	UJ

GWP-6-58-60	Trichloroethene	<0.46	UJ
GWP-6-58-60	Methyl acetate	<0.5	UJ
GWP-6-58-60	1,1,2,2-Tetrachloroethane	<0.21	UJ
GWP-6-58-60	1,2-Dichlorobenzene	<0.79	UJ
GWP-6-58-60	1,2-Dibromo-3-chloropropane	<0.39	UJ
GWP-6-58-60	Isopropylbenzene	<0.79	UJ

The recoveries of ethylbenzene, 1,2-dichloroethane, cis-1,2-dichloroethene, trichloroethene, and 1,2-dichlorobenzene in the matrix spike duplicate for sample GWP-7-38-40 were below control limits resulting in the qualification of these compounds in the associated sample.

Sample	Compound	Result (ug/L)	Qualifier
GWP-7-38-40	Ethylbenzene	<0.74	UJ
GWP-7-38-40	1,2-Dihloroethane	<0.21	UJ
GWP-7-38-40	cis-1,2-Dichloroethene	<0.81	UJ
GWP-7-38-40	Trichloroethene	<0.46	UJ
GWP-7-38-40	1,2-Dichlorobenzene	<0.79	UJ

In addition to the above, all tentatively identified compounds are considered estimated (J). Due to the nature of these compounds no attempt has been made to compare TICs found in the blanks to the samples and TICs have not been qualified due to blank contamination.

Semivolatiles by Method 8270C

The recoveries of 2,4-dinitrophenol and 4,6-dinitro-2-methylphenol in an LCS were below control limits resulting in the qualification of detected these compounds in the associated samples

Sample	Compound	Result	Qualifier
GWP-1-14-16	2,4-dinitrophenol	<2.4 ug/L	UJ
GWP-1-14-16	4,6-dinitro-2-methylphenol	<2.4 ug/L	UJ
GWP-3-9-11	2,4-dinitrophenol	<12 ug/L	UJ
GWP-3-9-11	4,6-dinitro-2-methylphenol	<12 ug/L	UJ
GWP-2-8-10	2,4-dinitrophenol	<2.1 ug/L	UJ

GWP-2-8-10	4,6-dinitro-2-methylphenol	<2.1 ug/L	UJ
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The recovery of atrazine in an LCS was below control limits resulting in the qualification of this compound in the associated samples

Sample	Compound	Result	Qualifier
GWP-5-8-10	Atrazine	<0.46 ug/L	UJ
GWP-4-8-10	Atrazine	<0.48 ug/L	UJ

The recoveries of caprolactam, 2-methylnaphthalene and 2-chloronaphthalene in an LCS were below control limits resulting in the qualification of detected these compounds in the associated samples

Sample	Compound	Result	Qualifier
GWP-7-8-10	Caprolactam	<2.1 ug/L	UJ
GWP-1-14-16	2-Methylnaphthalene	<0.58 ug/L	UJ
GWP-3-9-11	2-Chloronaphthalene	<0.44 ug/L	UJ

The recoveries of atrazine in the MS and MSD of sample GWP-9-10-12 were below control limits resulting in the qualification of this compound in the associated sample.

Sample	Compound	Result	Qualifier
GWP-9-10-12	Atrazine	<0.46 ug/L	UJ

A continuing calibration verification for 2,4-dinitrophenol was below control limits resulting in the qualification of this compound in the associated samples.

Sample	Compound	Result	Qualifier
GWP-7-8-10	2,4-Dinitrophenol	<2.1 ug/L	UJ

In addition to the above, all tentatively identified compounds are considered estimated (J). Due to the nature of these compounds no attempt has been made to compare TICs found in the blanks to the samples and TICs have not been qualified due to blank contamination.

Metals by Method 6010B

Field blank, FB-071811, contained reportable levels of iron, manganese, and copper. Associated sample results for these compounds less than 5 times the blank concentration have been qualified as not detected (U) at the reported sample concentration.

Sample	Compound	Result (mg/L)	Qualifier
GWP-8-18-20	Copper	<0.07	U
GWP-8-38-40	Copper	<0.024	U
GWP-8-48-50	Copper	<0.11	U
GWP-8-58-60	Copper	<0.022	U

Field blank, FB-072011, contained reportable levels of iron, manganese, chromium, and zinc. Associated sample results for these compounds less than 5 times the blank concentration have been qualified as not detected (U) at the reported sample concentration.

Sample	Compound	Result (mg/L)	Qualifier
GWP-10-50-52	Zinc	<0.1	U

Sample DUP-071111 is a blind field duplicate of sample GWP-2-28-30. The following results have been qualified as estimated (J) due to a relative percent difference (RPD) that exceeds 50 percent.

Compound	Sample Result (mg/L)	Duplicate Result (mg.L)	RPD	Qualifier
Beryllium	<0.0003	0.0021	150	J

The recovery of aluminum in the matrix spike of sample GWP-2-48-50 was above the control limit resulting in the qualification of detected aluminum in the associated sample.

Sample	Compound	Result (mg/L)	Qualifier
GWP-2-48-50	Aluminum	17.2	J

The recovery of potassium in the matrix spike of sample GWP-5-58-6 was above the control limit resulting in the qualification of detected aluminum in the associated sample.

Sample	Compound	Result (mg/L)	Qualifier
GWP-5-58-6	Potassium	11.6	J

The recoveries of aluminum and iron in the matrix spike of sample SB-2-2.5-3.5 were above control limits resulting in the qualification of detected aluminum and iron in the associated sample.

Sample	Compound	Result (mg/Kg)	Qualifier
SB-2-2.5-3.5	Aluminum	3050	J
SB-2-2.5-3.5	Iron	3830	

The recoveries of aluminum, iron, manganese, and chromium in the matrix spike of sample GWP-10-10-12 were above control limits resulting in the qualification of detected aluminum, iron, manganese, and chromium in the associated sample.

Sample	Compound	Result (mg/L)	Qualifier
GWP-10-10-12	Aluminum	28.8	J
GWP-10-10-12	Iron	35.8	J
GWP-10-10-12	Manganese	0.36	J
GWP-10-10-12	Chromium	0.11	J

The recoveries of lead, magnesium, manganese, nickel, potassium, sodium, arsenic, barium, cobalt, vanadium, and calcium in the matrix spike and matrix spike duplicate of sample GWP-6-58-60 were outside of control limits resulting in the qualification of these compounds in the associated sample.

Sample	Compound	Result (mg/L)	Qualifier
GWP-6-58-60	Lead	0.3	J
GWP-6-58-60	Magnesium	31.7	J
GWP-6-58-60	Manganese	8.0	J
GWP-6-58-60	Nickel	0.75	J
GWP-6-58-60	Potassium	29.1	J

GWP-6-58-60	Sodium	18.6	J
GWP-6-58-60	Arsenic	0.11	J
GWP-6-58-60	Barium	1.1	J
GWP-6-58-60	Cobalt	0.14	J
GWP-6-58-60	Vanadium	0.49	J
GWP-6-58-60	Calcium	29.9	J

The recovery of aluminum in the matrix spike of sample GWP-7-38-40 was above control limits resulting in the qualification of detected aluminum in the associated sample.

Sample	Compound	Result (mg/L)	Qualifier
GWP-7-38-40	Aluminum	16.5	J

Sample GWP-3-59-61 had a negative instrument reading with an absolute value that was greater than the reporting limit for the analyte total selenium, likely due to matrix interference. The selenium result has been qualified as estimated (UJ).

Sample	Compound	Result (mg/L)	Qualifier
GWP-3-59-61	Selenium	<0.0087	UJ

Sample GWP-8-28-30 had a negative instrument reading with an absolute value that was greater than the reporting limit for the analyte total silver, likely due to matrix interference. The silver result has been qualified as estimated (UJ).

Sample	Compound	Result (mg/L)	Qualifier
GWP-8-28-30	Silver	<0.0017	UJ

The serial dilution for sample SB-2-2.5-3.5 was outside of control limits the analytes total vanadium and calcium. The vanadium and calcium results have been qualified as estimated (J).

Sample	Compound	Result (mg/Kg)	Qualifier
SB-2-2.5-3.5	Vanadium	5.8	J
SB-2-2.5-3.5	Calcium	140	J

The serial dilution for sample GWP-7-38-40 was outside of control limits the analytes total vanadium. The vanadium result has been qualified as estimated (J).

Sample	Compound	Result (mg/L)	Qualifier
GWP-7-38-40	Vanadium	0.035	J

Validation Qualifiers

The following validation qualifiers may have been applied to the data, as appropriate.

- J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ = The analyte was not detected above the sample reporting limit; and the reporting limit is approximate.
- U = The analyte was tested, but was not detected above the sample reporting limit.
- R = The sample result is rejected due to serious deficiencies. The presence or absence of the analyte cannot be verified.

Summary Evaluation of Data and Potential Usability Issues

Overall, the data is acceptable for the intended purposes. No Data were rejected as a result of this review; most data meet the criteria for the parameters reviewed. Minor data quality issues were identified, only some required qualification of the data.

Signed: _____

Dated: _____

Gregory Cole

Senior Chemist

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: GWP-10-10-12

Lab Sample ID: 480-7605-2

Date Sampled: 07/20/2011 1010

Client Matrix: Water

Date Received: 07/22/2011 0940

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-24755	Instrument ID:	HP5973C
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	C12572.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/24/2011 1307			Final Weight/Volume:	5 mL
Prep Date:	07/24/2011 1307				

Analyte	Result (ug/L)	Qualifier	RL
Vinyl chloride	ND		1.0
Xylenes, Total	ND		2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	112		66 - 137
4-Bromofluorobenzene (Surr)	105		73 - 120
Toluene-d8 (Surr)	110		71 - 126

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: GWP-10-10-12

Lab Sample ID: 480-7605-2

Date Sampled: 07/20/2011 1010

Client Matrix: Water

Date Received: 07/22/2011 0940

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 480-24755

Instrument ID: HP5973C

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: C12572.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 07/24/2011 1307

Final Weight/Volume: 5 mL

Prep Date: 07/24/2011 1307

Tentatively Identified Compounds

Number TIC's Found: 1

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
	Unknown	8.25	2.6	T J

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: GWP-10-20-22

Lab Sample ID: 480-7605-3

Date Sampled: 07/20/2011 1030

Client Matrix: Water

Date Received: 07/22/2011 0940

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-24755	Instrument ID:	HP5973C
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	C12575.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/24/2011 1422			Final Weight/Volume:	5 mL
Prep Date:	07/24/2011 1422				

Analyte	Result (ug/L)	Qualifier	RL
1,1,1-Trichloroethane	ND		1.0
1,1,2,2-Tetrachloroethane	ND		1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0
1,1,2-Trichloroethane	ND		1.0
1,1-Dichloroethane	ND		1.0
1,1-Dichloroethene	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,2-Dibromo-3-Chloropropane	ND		1.0
1,2-Dibromoethane	ND		1.0
1,2-Dichlorobenzene	ND		1.0
1,2-Dichloroethane	ND		1.0
1,2-Dichloropropane	ND		1.0
1,3-Dichlorobenzene	ND		1.0
1,4-Dichlorobenzene	ND		1.0
2-Butanone (MEK)	ND		10
2-Hexanone	ND		5.0
4-Methyl-2-pentanone (MIBK)	ND		5.0
Acetone	ND		10
Benzene	ND		1.0
Bromodichloromethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
Carbon disulfide	ND		1.0
Carbon tetrachloride	ND		1.0
Chlorobenzene	ND		1.0
Chloroethane	ND		1.0
Chloroform	ND		1.0
Chloromethane	ND		1.0
cis-1,2-Dichloroethene	ND		1.0
cis-1,3-Dichloropropene	ND		1.0
Cyclohexane	ND		1.0
Dibromochloromethane	ND		1.0
Dichlorodifluoromethane	ND		1.0
Ethylbenzene	ND		1.0
Isopropylbenzene	ND		1.0
Methyl acetate	ND		1.0
Methyl tert-butyl ether	ND		1.0
Methylcyclohexane	ND		1.0
Methylene Chloride	ND		1.0
Styrene	ND		1.0
Tetrachloroethene	ND		1.0
Toluene	ND		1.0
trans-1,2-Dichloroethene	ND		1.0
trans-1,3-Dichloropropene	ND		1.0
Trichloroethene	ND		1.0
Trichlorofluoromethane	ND		1.0

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: GWP-10-20-22

Lab Sample ID: 480-7605-3

Date Sampled: 07/20/2011 1030

Client Matrix: Water

Date Received: 07/22/2011 0940

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-24755	Instrument ID:	HP5973C
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	C12575.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/24/2011 1422			Final Weight/Volume:	5 mL
Prep Date:	07/24/2011 1422				

Analyte	Result (ug/L)	Qualifier	RL
Vinyl chloride	ND		1.0
Xylenes, Total	ND		2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	110		66 - 137
4-Bromofluorobenzene (Surr)	106		73 - 120
Toluene-d8 (Surr)	112		71 - 126

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: GWP-10-20-22

Lab Sample ID: 480-7605-3

Client Matrix: Water

Date Sampled: 07/20/2011 1030

Date Received: 07/22/2011 0940

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 480-24755

Instrument ID: HP5973C

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: C12575.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 07/24/2011 1422

Final Weight/Volume: 5 mL

Prep Date: 07/24/2011 1422

Tentatively Identified Compounds

Number TIC's Found: 0

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
	Tentatively Identified Compound		None	

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: GWP-10-30-32

Lab Sample ID: 480-7605-4

Date Sampled: 07/20/2011 1057

Client Matrix: Water

Date Received: 07/22/2011 0940

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-24755	Instrument ID:	HP5973C
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	C12576.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/24/2011 1447			Final Weight/Volume:	5 mL
Prep Date:	07/24/2011 1447				

Analyte	Result (ug/L)	Qualifier	RL
1,1,1-Trichloroethane	ND		1.0
1,1,2,2-Tetrachloroethane	ND		1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0
1,1,2-Trichloroethane	ND		1.0
1,1-Dichloroethane	ND		1.0
1,1-Dichloroethene	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,2-Dibromo-3-Chloropropane	ND		1.0
1,2-Dibromoethane	ND		1.0
1,2-Dichlorobenzene	ND		1.0
1,2-Dichloroethane	ND		1.0
1,2-Dichloropropane	ND		1.0
1,3-Dichlorobenzene	ND		1.0
1,4-Dichlorobenzene	ND		1.0
2-Butanone (MEK)	ND		10
2-Hexanone	ND		5.0
4-Methyl-2-pentanone (MIBK)	ND		5.0
Acetone	ND		10
Benzene	ND		1.0
Bromodichloromethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
Carbon disulfide	ND		1.0
Carbon tetrachloride	ND		1.0
Chlorobenzene	ND		1.0
Chloroethane	ND		1.0
Chloroform	ND		1.0
Chloromethane	ND		1.0
cis-1,2-Dichloroethene	ND		1.0
cis-1,3-Dichloropropene	ND		1.0
Cyclohexane	ND		1.0
Dibromochloromethane	ND		1.0
Dichlorodifluoromethane	ND		1.0
Ethylbenzene	ND		1.0
Isopropylbenzene	ND		1.0
Methyl acetate	ND		1.0
Methyl tert-butyl ether	ND		1.0
Methylcyclohexane	ND		1.0
Methylene Chloride	ND		1.0
Styrene	ND		1.0
Tetrachloroethene	ND		1.0
Toluene	ND		1.0
trans-1,2-Dichloroethene	ND		1.0
trans-1,3-Dichloropropene	ND		1.0
Trichloroethene	ND		1.0
Trichlorofluoromethane	ND		1.0

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: GWP-10-30-32

Lab Sample ID: 480-7605-4

Date Sampled: 07/20/2011 1057

Client Matrix: Water

Date Received: 07/22/2011 0940

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-24755	Instrument ID:	HP5973C
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	C12576.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/24/2011 1447			Final Weight/Volume:	5 mL
Prep Date:	07/24/2011 1447				

Analyte	Result (ug/L)	Qualifier	RL
Vinyl chloride	ND		1.0
Xylenes, Total	ND		2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	108		66 - 137
4-Bromofluorobenzene (Surr)	101		73 - 120
Toluene-d8 (Surr)	107		71 - 126

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: GWP-10-30-32

Lab Sample ID: 480-7605-4

Client Matrix: Water

Date Sampled: 07/20/2011 1057

Date Received: 07/22/2011 0940

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 480-24755

Instrument ID: HP5973C

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: C12576.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 07/24/2011 1447

Final Weight/Volume: 5 mL

Prep Date: 07/24/2011 1447

Tentatively Identified Compounds

Number TIC's Found: 0

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
	Tentatively Identified Compound		None	

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: GWP-10-40-42

Lab Sample ID: 480-7605-5

Date Sampled: 07/20/2011 1130

Client Matrix: Water

Date Received: 07/22/2011 0940

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-24755	Instrument ID:	HP5973C
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	C12577.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/24/2011 1512			Final Weight/Volume:	5 mL
Prep Date:	07/24/2011 1512				

Analyte	Result (ug/L)	Qualifier	RL
1,1,1-Trichloroethane	ND		1.0
1,1,2,2-Tetrachloroethane	ND		1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0
1,1,2-Trichloroethane	ND		1.0
1,1-Dichloroethane	ND		1.0
1,1-Dichloroethene	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,2-Dibromo-3-Chloropropane	ND		1.0
1,2-Dibromoethane	ND		1.0
1,2-Dichlorobenzene	ND		1.0
1,2-Dichloroethane	ND		1.0
1,2-Dichloropropane	ND		1.0
1,3-Dichlorobenzene	ND		1.0
1,4-Dichlorobenzene	ND		1.0
2-Butanone (MEK)	ND		10
2-Hexanone	ND		5.0
4-Methyl-2-pentanone (MIBK)	ND		5.0
Acetone	ND		10
Benzene	ND		1.0
Bromodichloromethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
Carbon disulfide	ND		1.0
Carbon tetrachloride	ND		1.0
Chlorobenzene	ND		1.0
Chloroethane	ND		1.0
Chloroform	ND		1.0
Chloromethane	ND		1.0
cis-1,2-Dichloroethene	ND		1.0
cis-1,3-Dichloropropene	ND		1.0
Cyclohexane	ND		1.0
Dibromochloromethane	ND		1.0
Dichlorodifluoromethane	ND		1.0
Ethylbenzene	ND		1.0
Isopropylbenzene	ND		1.0
Methyl acetate	ND		1.0
Methyl tert-butyl ether	ND		1.0
Methylcyclohexane	ND		1.0
Methylene Chloride	ND		1.0
Styrene	ND		1.0
Tetrachloroethene	ND		1.0
Toluene	ND		1.0
trans-1,2-Dichloroethene	ND		1.0
trans-1,3-Dichloropropene	ND		1.0
Trichloroethene	ND		1.0
Trichlorofluoromethane	ND		1.0

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: GWP-10-40-42

Lab Sample ID: 480-7605-5

Date Sampled: 07/20/2011 1130

Client Matrix: Water

Date Received: 07/22/2011 0940

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 480-24755

Instrument ID: HP5973C

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: C12577.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 07/24/2011 1512

Final Weight/Volume: 5 mL

Prep Date: 07/24/2011 1512

Analyte	Result (ug/L)	Qualifier	RL
Vinyl chloride	ND		1.0
Xylenes, Total	ND		2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	116		66 - 137
4-Bromofluorobenzene (Surr)	107		73 - 120
Toluene-d8 (Surr)	113		71 - 126

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: GWP-10-40-42

Lab Sample ID: 480-7605-5

Date Sampled: 07/20/2011 1130

Client Matrix: Water

Date Received: 07/22/2011 0940

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 480-24755

Instrument ID: HP5973C

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: C12577.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 07/24/2011 1512

Final Weight/Volume: 5 mL

Prep Date: 07/24/2011 1512

Tentatively Identified Compounds

Number TIC's Found: 1

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
	Unknown	8.25	4.4	T J

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: GWP-10-50-52

Lab Sample ID: 480-7605-6

Date Sampled: 07/20/2011 1300

Client Matrix: Water

Date Received: 07/22/2011 0940

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-24755	Instrument ID:	HP5973C
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	C12578.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/24/2011 1537			Final Weight/Volume:	5 mL
Prep Date:	07/24/2011 1537				

Analyte	Result (ug/L)	Qualifier	RL
1,1,1-Trichloroethane	ND		1.0
1,1,2,2-Tetrachloroethane	ND		1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0
1,1,2-Trichloroethane	ND		1.0
1,1-Dichloroethane	ND		1.0
1,1-Dichloroethene	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,2-Dibromo-3-Chloropropane	ND		1.0
1,2-Dibromoethane	ND		1.0
1,2-Dichlorobenzene	ND		1.0
1,2-Dichloroethane	ND		1.0
1,2-Dichloropropane	ND		1.0
1,3-Dichlorobenzene	ND		1.0
1,4-Dichlorobenzene	ND		1.0
2-Butanone (MEK)	ND		10
2-Hexanone	ND		5.0
4-Methyl-2-pentanone (MIBK)	ND		5.0
Acetone	ND		10
Benzene	ND		1.0
Bromodichloromethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
Carbon disulfide	ND		1.0
Carbon tetrachloride	ND		1.0
Chlorobenzene	ND		1.0
Chloroethane	ND		1.0
Chloroform	ND		1.0
Chloromethane	ND		1.0
cis-1,2-Dichloroethene	ND		1.0
cis-1,3-Dichloropropene	ND		1.0
Cyclohexane	ND		1.0
Dibromochloromethane	ND		1.0
Dichlorodifluoromethane	ND		1.0
Ethylbenzene	ND		1.0
Isopropylbenzene	ND		1.0
Methyl acetate	ND		1.0
Methyl tert-butyl ether	ND		1.0
Methylcyclohexane	ND		1.0
Methylene Chloride	ND		1.0
Styrene	ND		1.0
Tetrachloroethene	ND		1.0
Toluene	ND		1.0
trans-1,2-Dichloroethene	ND		1.0
trans-1,3-Dichloropropene	ND		1.0
Trichloroethene	ND		1.0
Trichlorofluoromethane	ND		1.0

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: GWP-10-50-52

Lab Sample ID: 480-7605-6

Date Sampled: 07/20/2011 1300

Client Matrix: Water

Date Received: 07/22/2011 0940

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-24755	Instrument ID:	HP5973C
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	C12578.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/24/2011 1537			Final Weight/Volume:	5 mL
Prep Date:	07/24/2011 1537				

Analyte	Result (ug/L)	Qualifier	RL
Vinyl chloride	ND		1.0
Xylenes, Total	ND		2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	112		66 - 137
4-Bromofluorobenzene (Surr)	106		73 - 120
Toluene-d8 (Surr)	111		71 - 126

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: GWP-10-60-62

Lab Sample ID: 480-7605-6

Client Matrix: Water

Date Sampled: 07/20/2011 1300

Date Received: 07/22/2011 0940

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 480-24755

Instrument ID: HP5973C

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: C12578.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 07/24/2011 1537

Final Weight/Volume: 5 mL

Prep Date: 07/24/2011 1537

Tentatively Identified Compounds

Number TIC's Found: 0

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
	Tentatively Identified Compound		None	

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: GWP-10-60-62

Lab Sample ID: 480-7605-7

Date Sampled: 07/20/2011 1334

Client Matrix: Water

Date Received: 07/22/2011 0940

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-24755	Instrument ID:	HP5973C
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	C12579.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/24/2011 1602			Final Weight/Volume:	5 mL
Prep Date:	07/24/2011 1602				

Analyte	Result (ug/L)	Qualifier	RL
1,1,1-Trichloroethane	ND		1.0
1,1,2,2-Tetrachloroethane	ND		1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0
1,1,2-Trichloroethane	ND		1.0
1,1-Dichloroethane	ND		1.0
1,1-Dichloroethene	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,2-Dibromo-3-Chloropropane	ND		1.0
1,2-Dibromoethane	ND		1.0
1,2-Dichlorobenzene	ND		1.0
1,2-Dichloroethane	ND		1.0
1,2-Dichloropropane	ND		1.0
1,3-Dichlorobenzene	ND		1.0
1,4-Dichlorobenzene	ND		1.0
2-Butanone (MEK)	ND		10
2-Hexanone	ND		5.0
4-Methyl-2-pentanone (MIBK)	ND		5.0
Acetone	ND		10
Benzene	ND		1.0
Bromodichloromethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
Carbon disulfide	ND		1.0
Carbon tetrachloride	ND		1.0
Chlorobenzene	ND		1.0
Chloroethane	ND		1.0
Chloroform	ND		1.0
Chloromethane	ND		1.0
cis-1,2-Dichloroethene	ND		1.0
cis-1,3-Dichloropropene	ND		1.0
Cyclohexane	ND		1.0
Dibromochloromethane	ND		1.0
Dichlorodifluoromethane	ND		1.0
Ethylbenzene	ND		1.0
Isopropylbenzene	ND		1.0
Methyl acetate	ND		1.0
Methyl tert-butyl ether	ND		1.0
Methylcyclohexane	ND		1.0
Methylene Chloride	ND		1.0
Styrene	ND		1.0
Tetrachloroethene	ND		1.0
Toluene	ND		1.0
trans-1,2-Dichloroethene	ND		1.0
trans-1,3-Dichloropropene	ND		1.0
Trichloroethene	ND		1.0
Trichlorofluoromethane	ND		1.0

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: GWP-10-60-62

Lab Sample ID: 480-7605-7

Date Sampled: 07/20/2011 1334

Client Matrix: Water

Date Received: 07/22/2011 0940

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-24755	Instrument ID:	HP5973C
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	C12579.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/24/2011 1602			Final Weight/Volume:	5 mL
Prep Date:	07/24/2011 1602				

Analyte	Result (ug/L)	Qualifier	RL
Vinyl chloride	ND		1.0
Xylenes, Total	ND		2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	114		66 - 137
4-Bromofluorobenzene (Surr)	104		73 - 120
Toluene-d8 (Surr)	110		71 - 126

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: GWP-10-60-62

Lab Sample ID: 480-7605-7

Client Matrix: Water

Date Sampled: 07/20/2011 1334

Date Received: 07/22/2011 0940

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 480-24755

Instrument ID: HP5973C

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: C12579.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 07/24/2011 1602

Final Weight/Volume: 5 mL

Prep Date: 07/24/2011 1602

Tentatively Identified Compounds

Number TIC's Found: 1

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
	Unknown	8.25	4.1	T J

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: DUP-072011

Lab Sample ID: 480-7605-8FD

Date Sampled: 07/20/2011 0000

Client Matrix: Water

Date Received: 07/22/2011 0940

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-24755	Instrument ID:	HP5973C
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	C12580.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/24/2011 1629			Final Weight/Volume:	5 mL
Prep Date:	07/24/2011 1629				

Analyte	Result (ug/L)	Qualifier	RL
1,1,1-Trichloroethane	ND		1.0
1,1,2,2-Tetrachloroethane	ND		1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0
1,1,2-Trichloroethane	ND		1.0
1,1-Dichloroethane	ND		1.0
1,1-Dichloroethene	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,2-Dibromo-3-Chloropropane	ND		1.0
1,2-Dibromoethane	ND		1.0
1,2-Dichlorobenzene	ND		1.0
1,2-Dichloroethane	ND		1.0
1,2-Dichloropropane	ND		1.0
1,3-Dichlorobenzene	ND		1.0
1,4-Dichlorobenzene	ND		1.0
2-Butanone (MEK)	ND		10
2-Hexanone	ND		5.0
4-Methyl-2-pentanone (MIBK)	ND		5.0
Acetone	ND		10
Benzene	ND		1.0
Bromodichloromethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
Carbon disulfide	ND		1.0
Carbon tetrachloride	ND		1.0
Chlorobenzene	ND		1.0
Chloroethane	ND		1.0
Chloroform	ND		1.0
Chloromethane	ND		1.0
cis-1,2-Dichloroethene	ND		1.0
cis-1,3-Dichloropropene	ND		1.0
Cyclohexane	ND		1.0
Dibromochloromethane	ND		1.0
Dichlorodifluoromethane	ND		1.0
Ethylbenzene	ND		1.0
Isopropylbenzene	ND		1.0
Methyl acetate	ND		1.0
Methyl tert-butyl ether	ND		1.0
Methylcyclohexane	ND		1.0
Methylene Chloride	ND		1.0
Styrene	ND		1.0
Tetrachloroethene	ND		1.0
Toluene	ND		1.0
trans-1,2-Dichloroethene	ND		1.0
trans-1,3-Dichloropropene	ND		1.0
Trichloroethene	ND		1.0
Trichlorofluoromethane	ND		1.0

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: DUP-072011

Lab Sample ID: 480-7605-8FD

Date Sampled: 07/20/2011 0000

Client Matrix: Water

Date Received: 07/22/2011 0940

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-24755	Instrument ID:	HP5973C
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	C12580.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/24/2011 1629			Final Weight/Volume:	5 mL
Prep Date:	07/24/2011 1629				

Analyte	Result (ug/L)	Qualifier	RL
Vinyl chloride	ND		1.0
Xylenes, Total	ND		2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	111		66 - 137
4-Bromofluorobenzene (Surr)	106		73 - 120
Toluene-d8 (Surr)	111		71 - 126

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: DUP-072011

Lab Sample ID: 480-7605-8FD

Date Sampled: 07/20/2011 0000

Client Matrix: Water

Date Received: 07/22/2011 0940

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 480-24755

Instrument ID: HP5973C

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: C12580.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 07/24/2011 1629

Final Weight/Volume: 5 mL

Prep Date: 07/24/2011 1629

Tentatively Identified Compounds

Number TIC's Found: 1

Gas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
	Unknown	8.25	3.5	T J

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-7605-9TB

Date Sampled: 07/20/2011 0000

Client Matrix: Water

Date Received: 07/22/2011 0940

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-24755	Instrument ID:	HP5973C
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	C12581.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/24/2011 1655			Final Weight/Volume:	5 mL
Prep Date:	07/24/2011 1655				

Analyte	Result (ug/L)	Qualifier	RL
1,1,1-Trichloroethane	ND		1.0
1,1,2,2-Tetrachloroethane	ND		1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0
1,1,2-Trichloroethane	ND		1.0
1,1-Dichloroethane	ND		1.0
1,1-Dichloroethene	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,2-Dibromo-3-Chloropropane	ND		1.0
1,2-Dibromoethane	ND		1.0
1,2-Dichlorobenzene	ND		1.0
1,2-Dichloroethane	ND		1.0
1,2-Dichloropropane	ND		1.0
1,3-Dichlorobenzene	ND		1.0
1,4-Dichlorobenzene	ND		1.0
2-Butanone (MEK)	ND		10
2-Hexanone	ND		5.0
4-Methyl-2-pentanone (MIBK)	ND		5.0
Acetone	ND		10
Benzene	ND		1.0
Bromodichloromethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
Carbon disulfide	ND		1.0
Carbon tetrachloride	ND		1.0
Chlorobenzene	ND		1.0
Chloroethane	ND		1.0
Chloroform	ND		1.0
Chloromethane	ND		1.0
cis-1,2-Dichloroethene	ND		1.0
cis-1,3-Dichloropropene	ND		1.0
Cyclohexane	ND		1.0
Dibromochloromethane	ND		1.0
Dichlorodifluoromethane	ND		1.0
Ethylbenzene	ND		1.0
Isopropylbenzene	ND		1.0
Methyl acetate	ND		1.0
Methyl tert-butyl ether	ND		1.0
Methylcyclohexane	ND		1.0
Methylene Chloride	ND		1.0
Styrene	ND		1.0
Tetrachloroethene	ND		1.0
Toluene	ND		1.0
trans-1,2-Dichloroethene	ND		1.0
trans-1,3-Dichloropropene	ND		1.0
Trichloroethene	ND		1.0
Trichlorofluoromethane	ND		1.0

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-7605-9TB

Date Sampled: 07/20/2011 0000

Client Matrix: Water

Date Received: 07/22/2011 0940

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 480-24755

Instrument ID: HP5973C

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: C12581.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 07/24/2011 1655

Final Weight/Volume: 5 mL

Prep Date: 07/24/2011 1655

Analyte	Result (ug/L)	Qualifier	RL
Vinyl chloride	ND		1.0
Xylenes, Total	ND		2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	114		66 - 137
4-Bromofluorobenzene (Surr)	105		73 - 120
Toluene-d8 (Surr)	110		71 - 126

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-7605-9TB

Client Matrix: Water

Date Sampled: 07/20/2011 0000

Date Received: 07/22/2011 0940

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 480-24755

Instrument ID: HP5973C

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: C12581.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 07/24/2011 1655

Final Weight/Volume: 5 mL

Prep Date: 07/24/2011 1655

Tentatively Identified Compounds

Number TIC's Found: 0

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
	Tentatively Identified Compound		None	

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: FB-072111

Lab Sample ID: 480-7605-10FB

Date Sampled: 07/21/2011 0850

Client Matrix: Water

Date Received: 07/22/2011 0940

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-24755	Instrument ID:	HP5973C
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	C12582.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/24/2011 1722			Final Weight/Volume:	5 mL
Prep Date:	07/24/2011 1722				

Analyte	Result (ug/L)	Qualifier	RL
1,1,1-Trichloroethane	ND		1.0
1,1,2,2-Tetrachloroethane	ND		1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0
1,1,2-Trichloroethane	ND		1.0
1,1-Dichloroethane	ND		1.0
1,1-Dichloroethene	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,2-Dibromo-3-Chloropropane	ND		1.0
1,2-Dibromoethane	ND		1.0
1,2-Dichlorobenzene	ND		1.0
1,2-Dichloroethane	ND		1.0
1,2-Dichloropropane	ND		1.0
1,3-Dichlorobenzene	ND		1.0
1,4-Dichlorobenzene	ND		1.0
2-Butanone (MEK)	ND		10
2-Hexanone	ND		5.0
4-Methyl-2-pentanone (MIBK)	ND		5.0
Acetone	ND		10
Benzene	ND		1.0
Bromodichloromethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
Carbon disulfide	ND		1.0
Carbon tetrachloride	ND		1.0
Chlorobenzene	ND		1.0
Chloroethane	ND		1.0
Chloroform	ND		1.0
Chloromethane	ND		1.0
cis-1,2-Dichloroethene	ND		1.0
cis-1,3-Dichloropropene	ND		1.0
Cyclohexane	ND		1.0
Dibromochloromethane	ND		1.0
Dichlorodifluoromethane	ND		1.0
Ethylbenzene	ND		1.0
Isopropylbenzene	ND		1.0
Methyl acetate	ND		1.0
Methyl tert-butyl ether	ND		1.0
Methylcyclohexane	ND		1.0
Methylene Chloride	ND		1.0
Styrene	ND		1.0
Tetrachloroethene	ND		1.0
Toluene	ND		1.0
trans-1,2-Dichloroethene	ND		1.0
trans-1,3-Dichloropropene	ND		1.0
Trichloroethene	ND		1.0
Trichlorofluoromethane	ND		1.0

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: FB-072111

Lab Sample ID: 480-7605-10FB

Date Sampled: 07/21/2011 0850

Client Matrix: Water

Date Received: 07/22/2011 0940

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-24755	Instrument ID:	HP5973C
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	C12582.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/24/2011 1722			Final Weight/Volume:	5 mL
Prep Date:	07/24/2011 1722				

Analyte	Result (ug/L)	Qualifier	RL
Vinyl chloride	ND		1.0
Xylenes, Total	ND		2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	112		66 - 137
4-Bromofluorobenzene (Surr)	106		73 - 120
Toluene-d8 (Surr)	111		71 - 126

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: FB-072111

Lab Sample ID: 480-7605-10FB

Date Sampled: 07/21/2011 0850

Client Matrix: Water

Date Received: 07/22/2011 0940

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 480-24755

Instrument ID: HP5973C

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: C12582.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 07/24/2011 1722

Final Weight/Volume: 5 mL

Prep Date: 07/24/2011 1722

Tentatively Identified Compounds

Number TIC's Found: 1

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
	Unknown	8.25	2.7	T J

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: GWP-9-10-12

Lab Sample ID: 480-7605-11

Date Sampled: 07/21/2011 1025

Client Matrix: Water

Date Received: 07/22/2011 0940

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-24755	Instrument ID:	HP5973C
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	C12583.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/24/2011 1747			Final Weight/Volume:	5 mL
Prep Date:	07/24/2011 1747				

Analyte	Result (ug/L)	Qualifier	RL
1,1,1-Trichloroethane	ND		1.0
1,1,2,2-Tetrachloroethane	ND		1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0
1,1,2-Trichloroethane	ND		1.0
1,1-Dichloroethane	ND		1.0
1,1-Dichloroethene	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,2-Dibromo-3-Chloropropane	ND		1.0
1,2-Dibromoethane	ND		1.0
1,2-Dichlorobenzene	ND		1.0
1,2-Dichloroethane	ND		1.0
1,2-Dichloropropane	ND		1.0
1,3-Dichlorobenzene	ND		1.0
1,4-Dichlorobenzene	ND		1.0
2-Butanone (MEK)	ND		10
2-Hexanone	ND		5.0
4-Methyl-2-pentanone (MIBK)	ND		5.0
Acetone	ND		10
Benzene	ND		1.0
Bromodichloromethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
Carbon disulfide	ND		1.0
Carbon tetrachloride	ND		1.0
Chlorobenzene	ND		1.0
Chloroethane	ND		1.0
Chloroform	ND		1.0
Chloromethane	ND		1.0
cis-1,2-Dichloroethene	ND		1.0
cis-1,3-Dichloropropene	ND		1.0
Cyclohexane	ND		1.0
Dibromochloromethane	ND		1.0
Dichlorodifluoromethane	ND		1.0
Ethylbenzene	ND		1.0
Isopropylbenzene	ND		1.0
Methyl acetate	ND		1.0
Methyl tert-butyl ether	ND		1.0
Methylcyclohexane	ND		1.0
Methylene Chloride	ND		1.0
Styrene	ND		1.0
Tetrachloroethene	ND		1.0
Toluene	ND		1.0
trans-1,2-Dichloroethene	ND		1.0
trans-1,3-Dichloropropene	ND		1.0
Trichloroethene	ND		1.0
Trichlorofluoromethane	ND		1.0

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: GWP-9-10-12

Lab Sample ID: 480-7605-11

Client Matrix: Water

Date Sampled: 07/21/2011 1025

Date Received: 07/22/2011 0940

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-24755	Instrument ID:	HP5973C
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	C12583.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/24/2011 1747			Final Weight/Volume:	5 mL
Prep Date:	07/24/2011 1747				

Analyte	Result (ug/L)	Qualifier	RL
Vinyl chloride	ND		1.0
Xylenes, Total	ND		2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	110		66 - 137
4-Bromofluorobenzene (Surr)	100		73 - 120
Toluene-d8 (Surr)	104		71 - 126

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: GWP-9-10-12

Lab Sample ID: 480-7605-11

Client Matrix: Water

Date Sampled: 07/21/2011 1025

Date Received: 07/22/2011 0940

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 480-24755

Instrument ID: HP5973C

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: C12583.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 07/24/2011 1747

Final Weight/Volume: 5 mL

Prep Date: 07/24/2011 1747

Tentatively Identified Compounds

Number TIC's Found: 0

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
	Tentatively Identified Compound		None	

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: SB-1-1.5-2.5

Lab Sample ID: 480-7605-12

Client Matrix: Solid

% Moisture: 7.0

Date Sampled: 07/19/2011 1000

Date Received: 07/22/2011 0940

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 480-24751

Instrument ID: HP5973F

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: F2701.D

Dilution: 1.0

Initial Weight/Volume: 5.03 g

Analysis Date: 07/23/2011 1735

Final Weight/Volume: 5 mL

Prep Date: 07/23/2011 1735

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
1,1,1-Trichloroethane		160		5.3
1,1,2,2-Tetrachloroethane		ND		5.3
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		5.3
1,1,2-Trichloroethane		ND		5.3
1,1-Dichloroethane		ND		5.3
1,1-Dichloroethene		ND		5.3
1,2,4-Trichlorobenzene		ND		5.3
1,2-Dibromo-3-Chloropropane		ND		5.3
1,2-Dibromoethane		ND		5.3
1,2-Dichlorobenzene		ND		5.3
1,2-Dichloroethane		ND		5.3
1,2-Dichloropropane		ND		5.3
1,3-Dichlorobenzene		ND		5.3
1,4-Dichlorobenzene		ND		5.3
2-Butanone (MEK)		ND		27
2-Hexanone		ND		27
4-Methyl-2-pentanone (MIBK)		ND		27
Acetone		ND		27
Benzene		ND		5.3
Bromodichloromethane		ND		5.3
Bromoform		ND		5.3
Bromomethane		ND		5.3
Carbon disulfide		ND		5.3
Carbon tetrachloride		ND		5.3
Chlorobenzene		ND		5.3
Chloroethane		ND		5.3
Chloroform		6.8		5.3
Chloromethane		ND		5.3
cis-1,2-Dichloroethene		ND		5.3
cis-1,3-Dichloropropene		ND		5.3
Cyclohexane		ND		5.3
Dibromochloromethane		ND		5.3
Dichlorodifluoromethane		ND		5.3
Ethylbenzene		ND		5.3
Isopropylbenzene		ND		5.3
Methyl acetate		ND		5.3
Methyl tert-butyl ether		ND		5.3
Methylcyclohexane		ND		5.3
Methylene Chloride		ND		5.3
Styrene		ND		5.3
Tetrachloroethene		2000	E	5.3
Toluene		ND		5.3
trans-1,2-Dichloroethene		ND		5.3
trans-1,3-Dichloropropene		ND		5.3
Trichloroethene		310	E	5.3
Trichlorofluoromethane		ND		5.3

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: SB-1-1.6-2.6

Lab Sample ID: 480-7605-12

Date Sampled: 07/19/2011 1000

Client Matrix: Solid

% Moisture: 7.0

Date Received: 07/22/2011 0940

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-24751	Instrument ID:	HP5973F
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	F2701.D
Dilution:	1.0			Initial Weight/Volume:	5.03 g
Analysis Date:	07/23/2011 1735			Final Weight/Volume:	5 mL
Prep Date:	07/23/2011 1735				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
Vinyl chloride		ND		5.3
Xylenes, Total		ND		11

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	91		64 - 126
4-Bromofluorobenzene (Surr)	93		72 - 126
Toluene-d8 (Surr)	87		71 - 125

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: SB-1-1.6-2.6

Lab Sample ID: 480-7605-12

Client Matrix: Solid

% Moisture: 7.0

Date Sampled: 07/19/2011 1000

Date Received: 07/22/2011 0940

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 480-24751

Instrument ID: HP5973F

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: F2701.D

Dilution: 1.0

Initial Weight/Volume: 5.03 g

Analysis Date: 07/23/2011 1735

Final Weight/Volume: 5 mL

Prep Date: 07/23/2011 1735

Tentatively Identified Compounds

Number TIC's Found: 10

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
493-2-7	Naphthalene, decahydro-, trans-	11.15	27	T J N
	Unknown	11.29	18	T J
281-23-2	Adamantane	11.58	17	T J N
1000155-85-6	cis-Decalin, 2-syn-methyl-	11.69	16	T J N
2958-76-1	Naphthalene, decahydro-2-methyl-	11.87	34	T J N
1618-22-0	Naphthalene, decahydro-2,6-dimethyl-	12.31	31	T J N
	Unknown	12.47	23	T J
54676-39-0	Cyclohexane, 2-butyl-1,1,3-trimethyl-	12.59	31	T J N
	Unknown	12.77	28	T J
	Unknown	13.11	67	T J

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: SB-1-1.5-2.5

Lab Sample ID: 480-7605-12

Client Matrix: Solid

% Moisture: 7.0

Date Sampled: 07/19/2011 1000

Date Received: 07/22/2011 0940

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-24875	Instrument ID:	HP5973G
Prep Method:	5030B	Prep Batch:	480-24877	Lab File ID:	G4477.D
Dilution:	4.0			Initial Weight/Volume:	5.03 g
Analysis Date:	07/25/2011 2225	Run Type:	DL	Final Weight/Volume:	500 mL
Prep Date:	07/25/2011 1706				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
1,1,1-Trichloroethane		ND		430
1,1,2,2-Tetrachloroethane		ND		430
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		430
1,1,2-Trichloroethane		ND		430
1,1-Dichloroethane		ND		430
1,1-Dichloroethene		ND		430
1,2,4-Trichlorobenzene		1600		430
1,2-Dibromo-3-Chloropropane		ND		430
1,2-Dibromoethane		ND		430
1,2-Dichlorobenzene		ND		430
1,2-Dichloroethane		ND		430
1,2-Dichloropropane		ND		430
1,3-Dichlorobenzene		ND		430
1,4-Dichlorobenzene		ND		430
2-Butanone (MEK)		ND		2100
2-Hexanone		ND		2100
4-Methyl-2-pentanone (MIBK)		ND		2100
Acetone		ND		2100
Benzene		ND		430
Bromodichloromethane		ND		430
Bromoform		ND		430
Bromomethane		ND		430
Carbon disulfide		ND		430
Carbon tetrachloride		ND		430
Chlorobenzene		ND		430
Chloroethane		ND		430
Chloroform		ND		430
Chloromethane		ND		430
cis-1,2-Dichloroethene		ND		430
cis-1,3-Dichloropropene		ND		430
Cyclohexane		ND		430
Dibromochloromethane		ND		430
Dichlorodifluoromethane		ND		430
Ethylbenzene		ND		430
Isopropylbenzene		ND		430
Methyl acetate		ND		430
Methyl tert-butyl ether		ND		430
Methylcyclohexane		ND		430
Methylene Chloride		ND		430
Styrene		ND		430
Tetrachloroethene		23000		430
Toluene		ND		430
trans-1,2-Dichloroethene		ND		430
trans-1,3-Dichloropropene		ND		430
Trichloroethene		1400		430
Trichlorofluoromethane		ND		430

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: SB-1-1.5-2.5

Lab Sample ID: 480-7605-12

Date Sampled: 07/19/2011 1000

Client Matrix: Solid

% Moisture: 7.0

Date Received: 07/22/2011 0940

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-24875	Instrument ID:	HP5973G
Prep Method:	5030B	Prep Batch:	480-24877	Lab File ID:	G4477.D
Dilution:	4.0			Initial Weight/Volume:	5.03 g
Analysis Date:	07/25/2011 2225	Run Type:	DL	Final Weight/Volume:	500 mL
Prep Date:	07/25/2011 1706				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
Vinyl chloride		ND		430
Xylenes, Total		ND		850

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	142		53 - 146
4-Bromofluorobenzene (Surr)	119		49 - 148
Toluene-d8 (Surr)	120		50 - 149

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: SB-1-1.6-2.6

Lab Sample ID: 480-7605-12

Client Matrix: Solid

% Moisture: 7.0

Date Sampled: 07/19/2011 1000

Date Received: 07/22/2011 0940

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 480-24875

Instrument ID: HP5973G

Prep Method: 5030B

Prep Batch: 480-24877

Lab File ID: G4477.D

Dilution: 4.0

Initial Weight/Volume: 5.03 g

Analysis Date: 07/25/2011 2225

Run Type: DL

Final Weight/Volume: 500 mL

Prep Date: 07/25/2011 1706

Tentatively Identified Compounds

Number TIC's Found: 10

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
1618-22-0	Naphthalene, decahydro-2,6-dimethyl-	12.44	7200	T J N
	Unknown	13.19	5500	T J
91-57-6	Naphthalene, 2-methyl-	13.83	6800	T J N
90-12-0	Naphthalene, 1-methyl-	13.98	6500	T J N
80655-44-3	Decahydro-4,4,8,9,10-pentamethylnaphthal	14.08	7700	T J N
634-90-2	Benzene, 1,2,3,5-tetrachloro-	14.45	9200	T J N
	Unknown	14.53	11000	T J
581-42-0	Naphthalene, 2,6-dimethyl-	14.66	12000	T J N
571-61-9	Naphthalene, 1,5-dimethyl-	14.78	15000	T J N
	Unknown	14.82	14000	T J

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: SB-2-2.5-3.6

Lab Sample ID: 480-7605-13

Date Sampled: 07/19/2011 1220

Client Matrix: Solid

% Moisture: 4.4

Date Received: 07/22/2011 0940

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 480-24751

Instrument ID: HP5973F

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: F2702.D

Dilution: 1.0

Initial Weight/Volume: 5.09 g

Analysis Date: 07/23/2011 1801

Final Weight/Volume: 5 mL

Prep Date: 07/23/2011 1801

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
1,1,1-Trichloroethane		ND		5.1
1,1,2,2-Tetrachloroethane		ND		5.1
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		5.1
1,1,2-Trichloroethane		ND		5.1
1,1-Dichloroethane		ND		5.1
1,1-Dichloroethene		ND		5.1
1,2,4-Trichlorobenzene		ND		5.1
1,2-Dibromo-3-Chloropropane		ND		5.1
1,2-Dibromoethane		ND		5.1
1,2-Dichlorobenzene		ND		5.1
1,2-Dichloroethane		ND		5.1
1,2-Dichloropropane		ND		5.1
1,3-Dichlorobenzene		ND		5.1
1,4-Dichlorobenzene		ND		5.1
2-Butanone (MEK)		ND		26
2-Hexanone		ND		26
4-Methyl-2-pentanone (MIBK)		ND		26
Acetone		ND		26
Benzene		ND		5.1
Bromodichloromethane		ND		5.1
Bromoform		ND		5.1
Bromomethane		ND		5.1
Carbon disulfide		ND		5.1
Carbon tetrachloride		ND		5.1
Chlorobenzene		ND		5.1
Chloroethane		ND		5.1
Chloroform		ND		5.1
Chloromethane		ND		5.1
cis-1,2-Dichloroethene		ND		5.1
cis-1,3-Dichloropropene		ND		5.1
Cyclohexane		ND		5.1
Dibromochloromethane		ND		5.1
Dichlorodifluoromethane		ND		5.1
Ethylbenzene		ND		5.1
Isopropylbenzene		ND		5.1
Methyl acetate		ND		5.1
Methyl tert-butyl ether		ND		5.1
Methylcyclohexane		ND		5.1
Methylene Chloride		ND		5.1
Styrene		ND		5.1
Tetrachloroethene		ND		5.1
Toluene		ND		5.1
trans-1,2-Dichloroethene		ND		5.1
trans-1,3-Dichloropropene		ND		5.1
Trichloroethene		ND		5.1
Trichlorofluoromethane		ND		5.1

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: SB-2-2.5-3.5

Lab Sample ID: 480-7605-13

Date Sampled: 07/19/2011 1220

Client Matrix: Solid

% Moisture: 4.4

Date Received: 07/22/2011 0940

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-24751	Instrument ID:	HP5973F
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	F2702.D
Dilution:	1.0			Initial Weight/Volume:	5.09 g
Analysis Date:	07/23/2011 1801			Final Weight/Volume:	5 mL
Prep Date:	07/23/2011 1801				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
Vinyl chloride		ND		5.1
Xylenes, Total		ND		10

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	96		64 - 126
4-Bromofluorobenzene (Surr)	100		72 - 126
Toluene-d8 (Surr)	84		71 - 125

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: SB-2-2.5-3.5

Lab Sample ID: 480-7605-13

Date Sampled: 07/19/2011 1220

Client Matrix: Solid

% Moisture: 4.4

Date Received: 07/22/2011 0940

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 480-24751

Instrument ID: HP5973F

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: F2702.D

Dilution: 1.0

Initial Weight/Volume: 5.09 g

Analysis Date: 07/23/2011 1801

Final Weight/Volume: 5 mL

Prep Date: 07/23/2011 1801

Tentatively Identified Compounds

Number TIC's Found: 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
80655-44-3	Decahydro-4,4,8,9,10-pentamethylnaphthal	11.07	35	T J N

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: SB-3-3-4

Lab Sample ID: 480-7605-14

Date Sampled: 07/19/2011 1320

Client Matrix: Solid

% Moisture: 5.2

Date Received: 07/22/2011 0940

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-24751	Instrument ID:	HP5973F
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	F2705.D
Dilution:	1.0			Initial Weight/Volume:	5.06 g
Analysis Date:	07/23/2011 1917			Final Weight/Volume:	5 mL
Prep Date:	07/23/2011 1917				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
1,1,1-Trichloroethane		ND		5.2
1,1,2,2-Tetrachloroethane		ND		5.2
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		5.2
1,1,2-Trichloroethane		ND		5.2
1,1-Dichloroethane		ND		5.2
1,1-Dichloroethene		ND		5.2
1,2,4-Trichlorobenzene		ND		5.2
1,2-Dibromo-3-Chloropropane		ND		5.2
1,2-Dibromoethane		ND		5.2
1,2-Dichlorobenzene		ND		5.2
1,2-Dichloroethane		ND		5.2
1,2-Dichloropropane		ND		5.2
1,3-Dichlorobenzene		ND		5.2
1,4-Dichlorobenzene		ND		5.2
2-Butanone (MEK)		ND		26
2-Hexanone		ND		26
4-Methyl-2-pentanone (MIBK)		ND		26
Acetone		ND		26
Benzene		ND		5.2
Bromodichloromethane		ND		5.2
Bromoform		ND		5.2
Bromomethane		ND		5.2
Carbon disulfide		ND		5.2
Carbon tetrachloride		ND		5.2
Chlorobenzene		ND		5.2
Chloroethane		ND		5.2
Chloroform		ND		5.2
Chloromethane		ND		5.2
cis-1,2-Dichloroethene		ND		5.2
cis-1,3-Dichloropropene		ND		5.2
Cyclohexane		ND		5.2
Dibromochloromethane		ND		5.2
Dichlorodifluoromethane		ND		5.2
Ethylbenzene		ND		5.2
Isopropylbenzene		ND		5.2
Methyl acetate		ND		5.2
Methyl tert-butyl ether		ND		5.2
Methylcyclohexane		ND		5.2
Methylene Chloride		ND		5.2
Styrene		ND		5.2
Tetrachloroethene		ND		5.2
Toluene		ND		5.2
trans-1,2-Dichloroethene		ND		5.2
trans-1,3-Dichloropropene		ND		5.2
Trichloroethene		ND		5.2
Trichlorofluoromethane		ND		5.2

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: SB-3-3-4

Lab Sample ID: 480-7605-14

Date Sampled: 07/19/2011 1320

Client Matrix: Solid

% Moisture: 5.2

Date Received: 07/22/2011 0940

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-24751	Instrument ID:	HP5973F
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	F2705.D
Dilution:	1.0			Initial Weight/Volume:	5.06 g
Analysis Date:	07/23/2011 1917			Final Weight/Volume:	5 mL
Prep Date:	07/23/2011 1917				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
Vinyl chloride		ND		5.2
Xylenes, Total		ND		10

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	94		64 - 126
4-Bromofluorobenzene (Surr)	92		72 - 126
Toluene-d8 (Surr)	84		71 - 125

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: SB-3-3-4

Lab Sample ID: 480-7605-14

Client Matrix: Solid

% Moisture: 5.2

Date Sampled: 07/19/2011 1320

Date Received: 07/22/2011 0940

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 480-24751

Instrument ID: HP5973F

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: F2705.D

Dilution: 1.0

Initial Weight/Volume: 5.06 g

Analysis Date: 07/23/2011 1917

Final Weight/Volume: 5 mL

Prep Date: 07/23/2011 1917

Tentatively Identified Compounds

Number TIC's Found: 0

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: SB-4-2-3

Lab Sample ID: 480-7605-15

Date Sampled: 07/19/2011 1410

Client Matrix: Solid

% Moisture: 4.6

Date Received: 07/22/2011 0940

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-24751	Instrument ID:	HP5973F
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	F2706.D
Dilution:	1.0			Initial Weight/Volume:	5.09 g
Analysis Date:	07/23/2011 1942			Final Weight/Volume:	5 mL
Prep Date:	07/23/2011 1942				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
1,1,1-Trichloroethane		ND		5.1
1,1,2,2-Tetrachloroethane		ND		5.1
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		5.1
1,1,2-Trichloroethane		ND		5.1
1,1-Dichloroethane		ND		5.1
1,1-Dichloroethene		ND		5.1
1,2,4-Trichlorobenzene		ND		5.1
1,2-Dibromo-3-Chloropropane		ND		5.1
1,2-Dibromoethane		ND		5.1
1,2-Dichlorobenzene		ND		5.1
1,2-Dichloroethane		ND		5.1
1,2-Dichloropropane		ND		5.1
1,3-Dichlorobenzene		ND		5.1
1,4-Dichlorobenzene		ND		5.1
2-Butanone (MEK)		ND		26
2-Hexanone		ND		26
4-Methyl-2-pentanone (MIBK)		ND		26
Acetone		ND		26
Benzene		ND		5.1
Bromodichloromethane		ND		5.1
Bromoform		ND		5.1
Bromomethane		ND		5.1
Carbon disulfide		ND		5.1
Carbon tetrachloride		ND		5.1
Chlorobenzene		ND		5.1
Chloroethane		ND		5.1
Chloroform		ND		5.1
Chloromethane		ND		5.1
cis-1,2-Dichloroethene		ND		5.1
cis-1,3-Dichloropropene		ND		5.1
Cyclohexane		ND		5.1
Dibromochloromethane		ND		5.1
Dichlorodifluoromethane		ND		5.1
Ethylbenzene		ND		5.1
Isopropylbenzene		ND		5.1
Methyl acetate		ND		5.1
Methyl tert-butyl ether		ND		5.1
Methylcyclohexane		ND		5.1
Methylene Chloride		ND		5.1
Styrene		ND		5.1
Tetrachloroethene		ND		5.1
Toluene		ND		5.1
trans-1,2-Dichloroethene		ND		5.1
trans-1,3-Dichloropropene		ND		5.1
Trichloroethene		ND		5.1
Trichlorofluoromethane		ND		5.1

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: SB-4-2-3

Lab Sample ID: 480-7605-15

Date Sampled: 07/19/2011 1410

Client Matrix: Solid

% Moisture: 4.6

Date Received: 07/22/2011 0940

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-24751	Instrument ID:	HP5973F
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	F2706.D
Dilution:	1.0			Initial Weight/Volume:	5.09 g
Analysis Date:	07/23/2011 1942			Final Weight/Volume:	5 mL
Prep Date:	07/23/2011 1942				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
Vinyl chloride		ND		5.1
Xylenes, Total		ND		10

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	91		64 - 126
4-Bromofluorobenzene (Surr)	92		72 - 126
Toluene-d8 (Surr)	85		71 - 125

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: SB-4-2-3

Lab Sample ID: 480-7605-15

Date Sampled: 07/19/2011 1410

Client Matrix: Solid

% Moisture: 4.6

Date Received: 07/22/2011 0940

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 480-24751

Instrument ID: HP5973F

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: F2706.D

Dilution: 1.0

Initial Weight/Volume: 5.09 g

Analysis Date: 07/23/2011 1942

Final Weight/Volume: 5 mL

Prep Date: 07/23/2011 1942

Tentatively Identified Compounds

Number TIC's Found: 0

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: FB-071911

Lab Sample ID: 480-7605-16FB

Date Sampled: 07/19/2011 1430

Client Matrix: Water

Date Received: 07/22/2011 0940

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-24755	Instrument ID:	HP5973C
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	C12584.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/24/2011 1813			Final Weight/Volume:	5 mL
Prep Date:	07/24/2011 1813				

Analyte	Result (ug/L)	Qualifier	RL
1,1,1-Trichloroethane	ND		1.0
1,1,2,2-Tetrachloroethane	ND		1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0
1,1,2-Trichloroethane	ND		1.0
1,1-Dichloroethane	ND		1.0
1,1-Dichloroethene	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,2-Dibromo-3-Chloropropane	ND		1.0
1,2-Dibromoethane	ND		1.0
1,2-Dichlorobenzene	ND		1.0
1,2-Dichloroethane	ND		1.0
1,2-Dichloropropane	ND		1.0
1,3-Dichlorobenzene	ND		1.0
1,4-Dichlorobenzene	ND		1.0
2-Butanone (MEK)	ND		10
2-Hexanone	ND		5.0
4-Methyl-2-pentanone (MIBK)	ND		5.0
Acetone	ND		10
Benzene	ND		1.0
Bromodichloromethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
Carbon disulfide	ND		1.0
Carbon tetrachloride	ND		1.0
Chlorobenzene	ND		1.0
Chloroethane	ND		1.0
Chloroform	ND		1.0
Chloromethane	ND		1.0
cis-1,2-Dichloroethene	ND		1.0
cis-1,3-Dichloropropene	ND		1.0
Cyclohexane	ND		1.0
Dibromochloromethane	ND		1.0
Dichlorodifluoromethane	ND		1.0
Ethylbenzene	ND		1.0
Isopropylbenzene	ND		1.0
Methyl acetate	ND		1.0
Methyl tert-butyl ether	ND		1.0
Methylcyclohexane	ND		1.0
Methylene Chloride	ND		1.0
Styrene	ND		1.0
Tetrachloroethene	ND		1.0
Toluene	ND		1.0
trans-1,2-Dichloroethene	ND		1.0
trans-1,3-Dichloropropene	ND		1.0
Trichloroethene	ND		1.0
Trichlorofluoromethane	ND		1.0

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: FB-071911

Lab Sample ID: 480-7605-16FB

Date Sampled: 07/19/2011 1430

Client Matrix: Water

Date Received: 07/22/2011 0940

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 480-24755

Instrument ID: HP5973C

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: C12584.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 07/24/2011 1813

Final Weight/Volume: 5 mL

Prep Date: 07/24/2011 1813

Analyte	Result (ug/L)	Qualifier	RL
Vinyl chloride	ND		1.0
Xylenes, Total	ND		2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	110		66 - 137
4-Bromofluorobenzene (Surr)	103		73 - 120
Toluene-d8 (Surr)	104		71 - 126

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: FB-071911

Lab Sample ID: 480-7605-16FB

Client Matrix: Water

Date Sampled: 07/19/2011 1430

Date Received: 07/22/2011 0940

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 480-24755

Instrument ID: HP5973C

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: C12584.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 07/24/2011 1813

Final Weight/Volume: 5 mL

Prep Date: 07/24/2011 1813

Tentatively Identified Compounds

Number TIC's Found: 2

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
420-56-4	Silane, fluorotrimethyl-	5.38	2.6	T J N
	Unknown	8.25	6.3	T J

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: DUP-071911

Lab Sample ID: 480-7605-17FD

Date Sampled: 07/19/2011 0000

Client Matrix: Solid

% Moisture: 4.9

Date Received: 07/22/2011 0940

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-24751	Instrument ID:	HP5973F
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	F2707.D
Dilution:	1.0			Initial Weight/Volume:	5.04 g
Analysis Date:	07/23/2011 2008			Final Weight/Volume:	5 mL
Prep Date:	07/23/2011 2008				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
1,1,1-Trichloroethane		ND		5.2
1,1,2,2-Tetrachloroethane		ND		5.2
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		5.2
1,1,2-Trichloroethane		ND		5.2
1,1-Dichloroethane		ND		5.2
1,1-Dichloroethene		ND		5.2
1,2,4-Trichlorobenzene		ND		5.2
1,2-Dibromo-3-Chloropropane		ND		5.2
1,2-Dibromoethane		ND		5.2
1,2-Dichlorobenzene		ND		5.2
1,2-Dichloroethane		ND		5.2
1,2-Dichloropropane		ND		5.2
1,3-Dichlorobenzene		ND		5.2
1,4-Dichlorobenzene		ND		5.2
2-Butanone (MEK)		ND		26
2-Hexanone		ND		26
4-Methyl-2-pentanone (MIBK)		ND		26
Acetone		ND		26
Benzene		ND		5.2
Bromodichloromethane		ND		5.2
Bromoform		ND		5.2
Bromomethane		ND		5.2
Carbon disulfide		ND		5.2
Carbon tetrachloride		ND		5.2
Chlorobenzene		ND		5.2
Chloroethane		ND		5.2
Chloroform		ND		5.2
Chloromethane		ND		5.2
cis-1,2-Dichloroethene		ND		5.2
cis-1,3-Dichloropropene		ND		5.2
Cyclohexane		ND		5.2
Dibromochloromethane		ND		5.2
Dichlorodifluoromethane		ND		5.2
Ethylbenzene		ND		5.2
Isopropylbenzene		ND		5.2
Methyl acetate		ND		5.2
Methyl tert-butyl ether		ND		5.2
Methylcyclohexane		ND		5.2
Methylene Chloride		ND		5.2
Styrene		ND		5.2
Tetrachloroethene		ND		5.2
Toluene		ND		5.2
trans-1,2-Dichloroethene		ND		5.2
trans-1,3-Dichloropropene		ND		5.2
Trichloroethene		ND		5.2
Trichlorofluoromethane		ND		5.2

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: DUP-071911

Lab Sample ID: 480-7605-17FD

Date Sampled: 07/19/2011 0000

Client Matrix: Solid

% Moisture: 4.9

Date Received: 07/22/2011 0940

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-24751	Instrument ID:	HP5973F
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	F2707.D
Dilution:	1.0			Initial Weight/Volume:	5.04 g
Analysis Date:	07/23/2011 2008			Final Weight/Volume:	5 mL
Prep Date:	07/23/2011 2008				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
Vinyl chloride		ND		5.2
Xylenes, Total		ND		10

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	94		64 - 126
4-Bromofluorobenzene (Surr)	93		72 - 126
Toluene-d8 (Surr)	85		71 - 125

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: DUP-071911

Lab Sample ID: 480-7605-17FD

Date Sampled: 07/19/2011 0000

Client Matrix: Solid

% Moisture: 4.9

Date Received: 07/22/2011 0940

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 480-24751

Instrument ID: HP5973F

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: F2707.D

Dilution: 1.0

Initial Weight/Volume: 5.04 g

Analysis Date: 07/23/2011 2008

Final Weight/Volume: 5 mL

Prep Date: 07/23/2011 2008

Tentatively Identified Compounds

Number TIC's Found: 0

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: FB-072011

Lab Sample ID: 480-7605-1FB

Date Sampled: 07/20/2011 0825

Client Matrix: Water

Date Received: 07/22/2011 0940

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	480-25325	Instrument ID:	HP5973V
Prep Method:	3510C	Prep Batch:	480-25216	Lab File ID:	V3298.D
Dilution:	1.0			Initial Weight/Volume:	970 mL
Analysis Date:	07/28/2011 1428			Final Weight/Volume:	1 mL
Prep Date:	07/27/2011 1441			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	RL
2,4,5-Trichlorophenol	ND		5.2
2,4,6-Trichlorophenol	ND		5.2
2,4-Dichlorophenol	ND		5.2
2,4-Dimethylphenol	ND		5.2
2,4-Dinitrophenol	ND		10
2,4-Dinitrotoluene	ND		5.2
2,6-Dinitrotoluene	ND		5.2
2-Chloronaphthalene	ND		5.2
2-Chlorophenol	ND		5.2
2-Methylnaphthalene	ND		5.2
2-Methylphenol	ND		5.2
2-Nitroaniline	ND		10
2-Nitrophenol	ND		5.2
3,3'-Dichlorobenzidine	ND		5.2
3-Nitroaniline	ND		10
4,6-Dinitro-2-methylphenol	ND		10
4-Bromophenyl phenyl ether	ND		5.2
4-Chloro-3-methylphenol	ND		5.2
4-Chloroaniline	ND		5.2
4-Chlorophenyl phenyl ether	ND		5.2
4-Methylphenol	ND		10
4-Nitroaniline	ND		10
4-Nitrophenol	ND		10
Acenaphthene	ND		5.2
Acenaphthylene	ND		5.2
Acetophenone	ND		5.2
Anthracene	ND		5.2
Atrazine	ND		5.2
Benzaldehyde	ND		5.2
Benzo(a)anthracene	ND		5.2
Benzo(a)pyrene	ND		5.2
Benzo(b)fluoranthene	ND		5.2
Benzo(g,h,i)perylene	ND		5.2
Benzo(k)fluoranthene	ND		5.2
Biphenyl	ND		5.2
bis (2-chloroisopropyl) ether	ND		5.2
Bis(2-chloroethoxy)methane	ND		5.2
Bis(2-chloroethyl)ether	ND		5.2
Bis(2-ethylhexyl) phthalate	ND		5.2
Butyl benzyl phthalate	ND		5.2
Caprolactam	ND		5.2
Carbazole	ND		5.2
Chrysene	ND		5.2
Dibenz(a,h)anthracene	ND		5.2
Dibenzofuran	ND		10
Diethyl phthalate	ND		5.2

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: FB-072011

Lab Sample ID: 480-7605-1FB

Client Matrix: Water

Date Sampled: 07/20/2011 0825

Date Received: 07/22/2011 0940

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	480-25325	Instrument ID:	HP5973V
Prep Method:	3510C	Prep Batch:	480-25216	Lab File ID:	V3298.D
Dilution:	1.0			Initial Weight/Volume:	970 mL
Analysis Date:	07/28/2011 1428			Final Weight/Volume:	1 mL
Prep Date:	07/27/2011 1441			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	RL
Dimethyl phthalate	ND		5.2
Di-n-butyl phthalate	ND		5.2
Di-n-octyl phthalate	ND		5.2
Fluoranthene	ND		5.2
Fluorene	ND		5.2
Hexachlorobenzene	ND		5.2
Hexachlorobutadiene	ND		5.2
Hexachlorocyclopentadiene	ND		5.2
Hexachloroethane	ND		5.2
Indeno(1,2,3-cd)pyrene	ND		5.2
Isophorone	ND		5.2
Naphthalene	ND		5.2
Nitrobenzene	ND		5.2
N-Nitrosodi-n-propylamine	ND		5.2
N-Nitrosodiphenylamine	ND		5.2
Pentachlorophenol	ND		10
Phenanthrene	ND		5.2
Phenol	ND		5.2
Pyrene	ND		5.2

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4,6-Tribromophenol	111		52 - 132
2-Fluorobiphenyl	103		48 - 120
2-Fluorophenol	52		20 - 120
Nitrobenzene-d5	98		46 - 120
Phenol-d5	32		16 - 120
p-Terphenyl-d14	113		24 - 136

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: FB-072011

Lab Sample ID: 480-7605-1FB

Client Matrix: Water

Date Sampled: 07/20/2011 0825

Date Received: 07/22/2011 0940

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method: 8270C

Analysis Batch: 480-25325

Instrument ID: HP5973V

Prep Method: 3510C

Prep Batch: 480-25216

Lab File ID: V3298.D

Dilution: 1.0

Initial Weight/Volume: 970 mL

Analysis Date: 07/28/2011 1428

Final Weight/Volume: 1 mL

Prep Date: 07/27/2011 1441

Injection Volume: 1 uL

Tentatively Identified Compounds

Number TIC's Found: 6

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
	Unknown	11.02	4.5	T J
	Unknown	13.40	5.7	T J
	Unknown	13.42	8.9	T J
	Unknown	13.86	6.4	T J
	Unknown	14.57	6.6	T J
	Unknown	15.37	5.5	T J

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: GWP-10-10-12

Lab Sample ID: 480-7605-2

Date Sampled: 07/20/2011 1010

Client Matrix: Water

Date Received: 07/22/2011 0940

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	480-25325	Instrument ID:	HP5973V
Prep Method:	3510C	Prep Batch:	480-25216	Lab File ID:	V3299.D
Dilution:	1.0			Initial Weight/Volume:	980 mL
Analysis Date:	07/28/2011 1452			Final Weight/Volume:	1 mL
Prep Date:	07/27/2011 1441			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	RL
2,4,5-Trichlorophenol	ND		5.1
2,4,6-Trichlorophenol	ND		5.1
2,4-Dichlorophenol	ND		5.1
2,4-Dimethylphenol	ND		5.1
2,4-Dinitrophenol	ND		10
2,4-Dinitrotoluene	ND		5.1
2,6-Dinitrotoluene	ND		5.1
2-Chloronaphthalene	ND		5.1
2-Chlorophenol	ND		5.1
2-Methylnaphthalene	ND		5.1
2-Methylphenol	ND		5.1
2-Nitroaniline	ND		10
2-Nitrophenol	ND		5.1
3,3'-Dichlorobenzidine	ND		5.1
3-Nitroaniline	ND		10
4,6-Dinitro-2-methylphenol	ND		10
4-Bromophenyl phenyl ether	ND		5.1
4-Chloro-3-methylphenol	ND		5.1
4-Chloroaniline	ND		5.1
4-Chlorophenyl phenyl ether	ND		5.1
4-Methylphenol	ND		10
4-Nitroaniline	ND		10
4-Nitrophenol	ND		10
Acenaphthene	ND		5.1
Acenaphthylene	ND		5.1
Acetophenone	ND		5.1
Anthracene	ND		5.1
Atrazine	ND		5.1
Benzaldehyde	ND		5.1
Benzo(a)anthracene	ND		5.1
Benzo(a)pyrene	ND		5.1
Benzo(b)fluoranthene	ND		5.1
Benzo(g,h,i)perylene	ND		5.1
Benzo(k)fluoranthene	ND		5.1
Biphenyl	ND		5.1
bis (2-chloroisopropyl) ether	ND		5.1
Bis(2-chloroethoxy)methane	ND		5.1
Bis(2-chloroethyl)ether	ND		5.1
Bis(2-ethylhexyl) phthalate	ND		5.1
Butyl benzyl phthalate	ND		5.1
Caprolactam	ND		5.1
Carbazole	ND		5.1
Chrysene	ND		5.1
Dibenz(a,h)anthracene	ND		5.1
Dibenzofuran	ND		10
Diethyl phthalate	ND		5.1

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: GWP-10-10-12

Lab Sample ID: 480-7605-2

Client Matrix: Water

Date Sampled: 07/20/2011 1010

Date Received: 07/22/2011 0940

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	480-25325	Instrument ID:	HP5973V
Prep Method:	3510C	Prep Batch:	480-25216	Lab File ID:	V3299.D
Dilution:	1.0			Initial Weight/Volume:	980 mL
Analysis Date:	07/28/2011 1452			Final Weight/Volume:	1 mL
Prep Date:	07/27/2011 1441			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	RL
Dimethyl phthalate	ND		5.1
Di-n-butyl phthalate	ND		5.1
Di-n-octyl phthalate	ND		5.1
Fluoranthene	ND		5.1
Fluorene	ND		5.1
Hexachlorobenzene	ND		5.1
Hexachlorobutadiene	ND		5.1
Hexachlorocyclopentadiene	ND		5.1
Hexachloroethane	ND		5.1
Indeno(1,2,3-cd)pyrene	ND		5.1
Isophorone	ND		5.1
Naphthalene	ND		5.1
Nitrobenzene	ND		5.1
N-Nitrosodi-n-propylamine	ND		5.1
N-Nitrosodiphenylamine	ND		5.1
Pentachlorophenol	ND		10
Phenanthrene	ND		5.1
Phenol	ND		5.1
Pyrene	ND		5.1

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4,6-Tribromophenol	111		52 - 132
2-Fluorobiphenyl	96		48 - 120
2-Fluorophenol	53		20 - 120
Nitrobenzene-d5	95		46 - 120
Phenol-d5	33		16 - 120
p-Terphenyl-d14	97		24 - 136

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: GWP-10-10-12

Lab Sample ID: 480-7605-2

Date Sampled: 07/20/2011 1010

Client Matrix: Water

Date Received: 07/22/2011 0940

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method: 8270C

Analysis Batch: 480-25325

Instrument ID: HP5973V

Prep Method: 3510C

Prep Batch: 480-25216

Lab File ID: V3299.D

Dilution: 1.0

Initial Weight/Volume: 980 mL

Analysis Date: 07/28/2011 1452

Final Weight/Volume: 1 mL

Prep Date: 07/27/2011 1441

Injection Volume: 1 uL

Tentatively Identified Compounds

Number TIC's Found: 5

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
	Unknown	13.40	5.4	T J
	Unknown	13.42	9.1	T J
	Unknown	13.86	6.6	T J
	Unknown	14.57	6.4	T J
	Unknown	15.36	5.8	T J

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: FB-072111

Lab Sample ID: 480-7605-10FB

Date Sampled: 07/21/2011 0850

Client Matrix: Water

Date Received: 07/22/2011 0940

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	480-25325	Instrument ID:	HP5973V
Prep Method:	3510C	Prep Batch:	480-25216	Lab File ID:	V3300.D
Dilution:	1.0			Initial Weight/Volume:	950 mL
Analysis Date:	07/28/2011 1515			Final Weight/Volume:	1 mL
Prep Date:	07/27/2011 1441			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	RL
2,4,5-Trichlorophenol	ND		5.3
2,4,6-Trichlorophenol	ND		5.3
2,4-Dichlorophenol	ND		5.3
2,4-Dimethylphenol	ND		5.3
2,4-Dinitrophenol	ND		11
2,4-Dinitrotoluene	ND		5.3
2,6-Dinitrotoluene	ND		5.3
2-Chloronaphthalene	ND		5.3
2-Chlorophenol	ND		5.3
2-Methylnaphthalene	ND		5.3
2-Methylphenol	ND		5.3
2-Nitroaniline	ND		11
2-Nitrophenol	ND		5.3
3,3'-Dichlorobenzidine	ND		5.3
3-Nitroaniline	ND		11
4,6-Dinitro-2-methylphenol	ND		11
4-Bromophenyl phenyl ether	ND		5.3
4-Chloro-3-methylphenol	ND		5.3
4-Chloroaniline	ND		5.3
4-Chlorophenyl phenyl ether	ND		5.3
4-Methylphenol	ND		11
4-Nitroaniline	ND		11
4-Nitrophenol	ND		11
Acenaphthene	ND		5.3
Acenaphthylene	ND		5.3
Acetophenone	ND		5.3
Anthracene	ND		5.3
Atrazine	ND		5.3
Benzaldehyde	ND		5.3
Benzo(a)anthracene	ND		5.3
Benzo(a)pyrene	ND		5.3
Benzo(b)fluoranthene	ND		5.3
Benzo(g,h,i)perylene	ND		5.3
Benzo(k)fluoranthene	ND		5.3
Biphenyl	ND		5.3
bis (2-chloroisopropyl) ether	ND		5.3
Bis(2-chloroethoxy)methane	ND		5.3
Bis(2-chloroethyl)ether	ND		5.3
Bis(2-ethylhexyl) phthalate	ND		5.3
Butyl benzyl phthalate	ND		5.3
Caprolactam	ND		5.3
Carbazole	ND		5.3
Chrysene	ND		5.3
Dibenz(a,h)anthracene	ND		5.3
Dibenzofuran	ND		11
Diethyl phthalate	ND		5.3

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: FB-072111

Lab Sample ID: 480-7605-10FB

Date Sampled: 07/21/2011 0850

Client Matrix: Water

Date Received: 07/22/2011 0940

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	480-25325	Instrument ID:	HP5973V
Prep Method:	3510C	Prep Batch:	480-25216	Lab File ID:	V3300.D
Dilution:	1.0			Initial Weight/Volume:	950 mL
Analysis Date:	07/28/2011 1515			Final Weight/Volume:	1 mL
Prep Date:	07/27/2011 1441			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	RL
Dimethyl phthalate	ND		5.3
Di-n-butyl phthalate	ND		5.3
Di-n-octyl phthalate	ND		5.3
Fluoranthene	ND		5.3
Fluorene	ND		5.3
Hexachlorobenzene	ND		5.3
Hexachlorobutadiene	ND		5.3
Hexachlorocyclopentadiene	ND		5.3
Hexachloroethane	ND		5.3
Indeno(1,2,3-cd)pyrene	ND		5.3
Isophorone	ND		5.3
Naphthalene	ND		5.3
Nitrobenzene	ND		5.3
N-Nitrosodi-n-propylamine	ND		5.3
N-Nitrosodiphenylamine	ND		5.3
Pentachlorophenol	ND		11
Phenanthrene	ND		5.3
Phenol	ND		5.3
Pyrene	ND		5.3

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4,6-Tribromophenol	114		52 - 132
2-Fluorobiphenyl	106		48 - 120
2-Fluorophenol	53		20 - 120
Nitrobenzene-d5	102		46 - 120
Phenol-d5	33		16 - 120
p-Terphenyl-d14	110		24 - 136

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: FB-072111

Lab Sample ID: 480-7605-10FB

Client Matrix: Water

Date Sampled: 07/21/2011 0850

Date Received: 07/22/2011 0940

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method: 8270C

Analysis Batch: 480-25325

Instrument ID: HP5973V

Prep Method: 3510C

Prep Batch: 480-25216

Lab File ID: V3300.D

Dilution: 1.0

Initial Weight/Volume: 950 mL

Analysis Date: 07/28/2011 1515

Final Weight/Volume: 1 mL

Prep Date: 07/27/2011 1441

Injection Volume: 1 uL

Tentatively Identified Compounds

Number TIC's Found: 6

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
	Unknown	13.39	4.3	T J
	Unknown	13.42	7.1	T J
	Unknown	13.86	4.9	T J
	Unknown	14.15	4.4	T J
	Unknown	14.57	4.4	T J
	Unknown	15.36	4.5	T J

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: GWP-9-10-12

Lab Sample ID: 480-7605-11

Client Matrix: Water

Date Sampled: 07/21/2011 1025

Date Received: 07/22/2011 0940

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	480-25325	Instrument ID:	HP5973V
Prep Method:	3510C	Prep Batch:	480-25216	Lab File ID:	V3301.D
Dilution:	1.0			Initial Weight/Volume:	1000 mL
Analysis Date:	07/28/2011 1539			Final Weight/Volume:	1 mL
Prep Date:	07/27/2011 1441			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	RL
2,4,5-Trichlorophenol	ND		5.0
2,4,6-Trichlorophenol	ND		5.0
2,4-Dichlorophenol	ND		5.0
2,4-Dimethylphenol	ND		5.0
2,4-Dinitrophenol	ND		10
2,4-Dinitrotoluene	ND		5.0
2,6-Dinitrotoluene	ND		5.0
2-Chloronaphthalene	ND		5.0
2-Chlorophenol	ND		5.0
2-Methylnaphthalene	ND		5.0
2-Methylphenol	ND		5.0
2-Nitroaniline	ND		10
2-Nitrophenol	ND		5.0
3,3'-Dichlorobenzidine	ND		5.0
3-Nitroaniline	ND		10
4,6-Dinitro-2-methylphenol	ND		10
4-Bromophenyl phenyl ether	ND		5.0
4-Chloro-3-methylphenol	ND		5.0
4-Chloroaniline	ND		5.0
4-Chlorophenyl phenyl ether	ND		5.0
4-Methylphenol	ND		10
4-Nitroaniline	ND		10
4-Nitrophenol	ND		10
Acenaphthene	ND		5.0
Acenaphthylene	ND		5.0
Acetophenone	ND		5.0
Anthracene	ND		5.0
Atrazine	ND	VS	5.0
Benzaldehyde	ND		5.0
Benzo(a)anthracene	ND		5.0
Benzo(a)pyrene	ND		5.0
Benzo(b)fluoranthene	ND		5.0
Benzo(g,h,i)perylene	ND		5.0
Benzo(k)fluoranthene	ND		5.0
Biphenyl	ND		5.0
bis (2-chloroisopropyl) ether	ND		5.0
Bis(2-chloroethoxy)methane	ND		5.0
Bis(2-chloroethyl)ether	ND		5.0
Bis(2-ethylhexyl) phthalate	ND		5.0
Butyl benzyl phthalate	ND		5.0
Caprolactam	ND		5.0
Carbazole	ND		5.0
Chrysene	ND		5.0
Dibenz(a,h)anthracene	ND		5.0
Dibenzofuran	ND		10
Diethyl phthalate	ND		5.0

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: GWP-9-10-12

Lab Sample ID: 480-7605-11

Date Sampled: 07/21/2011 1025

Client Matrix: Water

Date Received: 07/22/2011 0940

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	480-25325	Instrument ID:	HP5973V
Prep Method:	3510C	Prep Batch:	480-25216	Lab File ID:	V3301.D
Dilution:	1.0			Initial Weight/Volume:	1000 mL
Analysis Date:	07/28/2011 1539			Final Weight/Volume:	1 mL
Prep Date:	07/27/2011 1441			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	RL
Dimethyl phthalate	ND		5.0
Di-n-butyl phthalate	ND		5.0
Di-n-octyl phthalate	ND		5.0
Fluoranthene	ND		5.0
Fluorene	ND		5.0
Hexachlorobenzene	ND		5.0
Hexachlorobutadiene	ND		5.0
Hexachlorocyclopentadiene	ND		5.0
Hexachloroethane	ND		5.0
Indeno(1,2,3-cd)pyrene	ND		5.0
Isophorone	ND		5.0
Naphthalene	ND		5.0
Nitrobenzene	ND		5.0
N-Nitrosodi-n-propylamine	ND		5.0
N-Nitrosodiphenylamine	ND		5.0
Pentachlorophenol	ND		10
Phenanthrene	ND		5.0
Phenol	ND		5.0
Pyrene	ND		5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4,6-Tribromophenol	114		52 - 132
2-Fluorobiphenyl	114		48 - 120
2-Fluorophenol	59		20 - 120
Nitrobenzene-d5	106		46 - 120
Phenol-d5	35		16 - 120
p-Terphenyl-d14	100		24 - 136

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: GWP-9-10-12

Lab Sample ID: 480-7605-11

Client Matrix: Water

Date Sampled: 07/21/2011 1025

Date Received: 07/22/2011 0940

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method: 8270C

Analysis Batch: 480-25325

Instrument ID: HP5973V

Prep Method: 3510C

Prep Batch: 480-25216

Lab File ID: V3301.D

Dilution: 1.0

Initial Weight/Volume: 1000 mL

Analysis Date: 07/28/2011 1539

Final Weight/Volume: 1 mL

Prep Date: 07/27/2011 1441

Injection Volume: 1 uL

Tentatively Identified Compounds

Number TIC's Found: 7

Cas Number	Analyte	RT	Est. Result (u/L)	Qualifier
	Unknown	13.40	7.5	T J
	Unknown	13.42	9.2	T J
	Unknown	13.86	4.9	T J
	Unknown	14.01	5.1	T J
	Unknown	14.57	6.2	T J
	Unknown	15.37	5.4	T J
	Unknown	16.40	4.1	T J

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: SB-1-1.5-2.5

Lab Sample ID: 480-7605-12

Date Sampled: 07/19/2011 1000

Client Matrix: Solid

% Moisture: 7.0

Date Received: 07/22/2011 0940

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	480-25140	Instrument ID:	HP5973V
Prep Method:	3550B	Prep Batch:	480-24999	Lab File ID:	V3260.D
Dilution:	20			Initial Weight/Volume:	+30.52 g
Analysis Date:	07/27/2011 1746			Final Weight/Volume:	1 mL
Prep Date:	07/26/2011 1047			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
2,4,5-Trichlorophenol		ND		3600
2,4,6-Trichlorophenol		ND		3600
2,4-Dichlorophenol		ND		3600
2,4-Dimethylphenol		ND		3600
2,4-Dinitrophenol		ND		7000
2,4-Dinitrotoluene		ND		3600
2,6-Dinitrotoluene		ND		3600
2-Chloronaphthalene		ND		3600
2-Chlorophenol		ND		3600
2-Methylnaphthalene		ND		3600
2-Methylphenol		ND		3600
2-Nitroaniline		ND		7000
2-Nitrophenol		ND		3600
3,3'-Dichlorobenzidine		ND		3600
3-Nitroaniline		ND		7000
4,6-Dinitro-2-methylphenol		ND		7000
4-Bromophenyl phenyl ether		ND		3600
4-Chloro-3-methylphenol		ND		3600
4-Chloroaniline		ND		3600
4-Chlorophenyl phenyl ether		ND		3600
4-Methylphenol		ND		7000
4-Nitroaniline		ND		7000
4-Nitrophenol		ND		7000
Acenaphthene		ND		3600
Acenaphthylene		ND		3600
Acetophenone		ND		3600
Anthracene		ND		3600
Atrazine		ND		3600
Benzaldehyde		ND		3600
Benzo(a)anthracene		ND		3600
Benzo(a)pyrene		ND		3600
Benzo(b)fluoranthene		ND		3600
Benzo(g,h,i)perylene		ND		3600
Benzo(k)fluoranthene		ND		3600
Biphenyl		ND		3600
bis (2-chloroisopropyl) ether		ND		3600
Bis(2-chloroethoxy)methane		ND		3600
Bis(2-chloroethyl)ether		ND		3600
Bis(2-ethylhexyl) phthalate		ND		3600
Butyl benzyl phthalate		ND		3600
Caprolactam		ND		3600
Carbazole		ND		3600
Chrysene		ND		3600
Dibenz(a,h)anthracene		ND		3600
Dibenzofuran		ND		3600
Diethyl phthalate		ND		3600

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: SB-1-1.5-2.5

Lab Sample ID: 480-7605-12

Date Sampled: 07/19/2011 1000

Client Matrix: Solid

% Moisture: 7.0

Date Received: 07/22/2011 0940

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	480-25140	Instrument ID:	HP5973V
Prep Method:	3550B	Prep Batch:	480-24999	Lab File ID:	V3260.D
Dilution:	20			Initial Weight/Volume:	+30.52 g
Analysis Date:	07/27/2011 1746			Final Weight/Volume:	1 mL
Prep Date:	07/26/2011 1047			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
Dimethyl phthalate		ND		3600
Di-n-butyl phthalate		ND		3600
Di-n-octyl phthalate		ND		3600
Fluoranthene		ND		3600
Fluorene		ND		3600
Hexachlorobenzene		ND		3600
Hexachlorobutadiene		ND		3600
Hexachlorocyclopentadiene		ND		3600
Hexachloroethane		ND		3600
Indeno(1,2,3-cd)pyrene		ND		3600
Isophorone		ND		3600
Naphthalene		ND		3600
Nitrobenzene		ND		3600
N-Nitrosodi-n-propylamine		ND		3600
N-Nitrosodiphenylamine		ND		3600
Pentachlorophenol		ND		7000
Phenanthrene		ND		3600
Phenol		ND		3600
Pyrene		ND		3600

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4,6-Tribromophenol	93		39 - 146
2-Fluorobiphenyl	101		37 - 120
2-Fluorophenol	88		18 - 120
Nitrobenzene-d5	98		34 - 132
Phenol-d5	91		11 - 120
p-Terphenyl-d14	108		58 - 147

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: SB-1-1.5-2.5

Lab Sample ID: 480-7605-12

Client Matrix: Solid

% Moisture: 7.0

Date Sampled: 07/19/2011 1000

Date Received: 07/22/2011 0940

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method: 8270C

Analysis Batch: 480-25140

Instrument ID: HP5973V

Prep Method: 3550B

Prep Batch: 480-24999

Lab File ID: V3260.D

Dilution: 20

Initial Weight/Volume: +30.52 g

Analysis Date: 07/27/2011 1746

Final Weight/Volume: 1 mL

Prep Date: 07/26/2011 1047

Injection Volume: 1 uL

Tentatively Identified Compounds

Number TIC's Found: 14

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
80655-44-3	Unknown	8.89	4300	T J
	Unknown	9.28	4600	T J
	Decahydro-4,4,8,9,10-pentamethylnaphthal	9.55	8200	T J N
	Unknown	9.92	3000	T J
	Unknown Naphthalene Derivative	9.97	3400	T J
	Unknown	10.06	3700	T J
	Unknown	10.09	3400	T J
	Unknown	10.17	5000	T J
	Unknown	10.26	2900	T J
	Unknown	11.03	3400	T J
	Unknown	11.33	3400	T J
	Unknown	11.91	4500	T J
	Unknown	15.64	4500	T J
	Unknown	15.95	4200	T J

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: SB-2-2.5-3.6

Lab Sample ID: 480-7605-13

Date Sampled: 07/19/2011 1220

Client Matrix: Solid

% Moisture: 4.4

Date Received: 07/22/2011 0940

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	480-25140	Instrument ID:	HP5973V
Prep Method:	3550B	Prep Batch:	480-24999	Lab File ID:	V3261.D
Dilution:	1.0			Initial Weight/Volume:	+30.05 g
Analysis Date:	07/27/2011 1810			Final Weight/Volume:	1 mL
Prep Date:	07/26/2011 1127			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
2,4,5-Trichlorophenol		ND		180
2,4,6-Trichlorophenol		ND		180
2,4-Dichlorophenol		ND		180
2,4-Dimethylphenol		ND		180
2,4-Dinitrophenol		ND		340
2,4-Dinitrotoluene		ND		180
2,6-Dinitrotoluene		ND		180
2-Chloronaphthalene		ND		180
2-Chlorophenol		ND		180
2-Methylnaphthalene		ND		180
2-Methylphenol		ND		180
2-Nitroaniline		ND		340
2-Nitrophenol		ND		180
3,3'-Dichlorobenzidine		ND		180
3-Nitroaniline		ND		340
4,6-Dinitro-2-methylphenol		ND		340
4-Bromophenyl phenyl ether		ND		180
4-Chloro-3-methylphenol		ND		180
4-Chloroaniline		ND		180
4-Chlorophenyl phenyl ether		ND		180
4-Methylphenol		ND		340
4-Nitroaniline		ND		340
4-Nitrophenol		ND		340
Acenaphthene		ND		180
Acenaphthylene		ND		180
Acetophenone		ND		180
Anthracene		ND		180
Atrazine		ND		180
Benzaldehyde		ND		180
Benzo(a)anthracene		ND		180
Benzo(a)pyrene		ND		180
Benzo(b)fluoranthene		ND		180
Benzo(g,h,i)perylene		ND		180
Benzo(k)fluoranthene		ND		180
Biphenyl		ND		180
bis (2-chloroisopropyl) ether		ND		180
Bis(2-chloroethoxy)methane		ND		180
Bis(2-chloroethyl)ether		ND		180
Bis(2-ethylhexyl) phthalate		ND		180
Butyl benzyl phthalate		ND		180
Caprolactam		ND		180
Carbazole		ND		180
Chrysene		ND		180
Dibenz(a,h)anthracene		ND		180
Dibenzofuran		ND		180
Diethyl phthalate		ND		180

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: SB-2-2.6-3.6

Lab Sample ID: 480-7605-13

Date Sampled: 07/19/2011 1220

Client Matrix: Solid

% Moisture: 4.4

Date Received: 07/22/2011 0940

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	480-25140	Instrument ID:	HP5973V
Prep Method:	3550B	Prep Batch:	480-24999	Lab File ID:	V3261.D
Dilution:	1.0			Initial Weight/Volume:	+30.05 g
Analysis Date:	07/27/2011 1810			Final Weight/Volume:	1 mL
Prep Date:	07/26/2011 1127			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
Dimethyl phthalate		ND		180
Di-n-butyl phthalate		ND		180
Di-n-octyl phthalate		ND		180
Fluoranthene		ND		180
Fluorene		ND		180
Hexachlorobenzene		ND		180
Hexachlorobutadiene		ND		180
Hexachlorocyclopentadiene		ND		180
Hexachloroethane		ND		180
Indeno(1,2,3-cd)pyrene		ND		180
Isophorone		ND		180
Naphthalene		ND		180
Nitrobenzene		ND		180
N-Nitrosodi-n-propylamine		ND		180
N-Nitrosodiphenylamine		ND		180
Pentachlorophenol		ND		340
Phenanthrene		ND		180
Phenol		ND		180
Pyrene		ND		180

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4,6-Tribromophenol	100		39 - 146
2-Fluorobiphenyl	89		37 - 120
2-Fluorophenol	72		18 - 120
Nitrobenzene-d5	80		34 - 132
Phenol-d5	78		11 - 120
p-Terphenyl-d14	101		58 - 147

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: SB-2-2.5-3.5

Lab Sample ID: 480-7605-13

Date Sampled: 07/19/2011 1220

Client Matrix: Solid

% Moisture: 4.4

Date Received: 07/22/2011 0940

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method: 8270C

Analysis Batch: 480-25140

Instrument ID: HP5973V

Prep Method: 3550B

Prep Batch: 480-24999

Lab File ID: V3261.D

Dilution: 1.0

Initial Weight/Volume: +30.05 g

Analysis Date: 07/27/2011 1810

Final Weight/Volume: 1 mL

Prep Date: 07/26/2011 1127

Injection Volume: 1 uL

Tentatively Identified Compounds

Number TIC's Found: 2

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	2.22	200	T J
79-34-5	Ethane, 1,1,2,2-tetrachloro-	4.37	430	T J N

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: SB-3-3-4

Lab Sample ID: 480-7605-14

Date Sampled: 07/19/2011 1320

Client Matrix: Solid

% Moisture: 5.2

Date Received: 07/22/2011 0940

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	480-25325	Instrument ID:	HP5973V
Prep Method:	3550B	Prep Batch:	480-24999	Lab File ID:	V3292.D
Dilution:	1.0			Initial Weight/Volume:	+30.26 g
Analysis Date:	07/28/2011 1205			Final Weight/Volume:	1 mL
Prep Date:	07/26/2011 1127			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
2,4,5-Trichlorophenol		ND		180
2,4,6-Trichlorophenol		ND		180
2,4-Dichlorophenol		ND		180
2,4-Dimethylphenol		ND		180
2,4-Dinitrophenol		ND		350
2,4-Dinitrotoluene		ND		180
2,6-Dinitrotoluene		ND		180
2-Chloronaphthalene		ND		180
2-Chlorophenol		ND		180
2-Methylnaphthalene		ND		180
2-Methylphenol		ND		180
2-Nitroaniline		ND		350
2-Nitrophenol		ND		180
3,3'-Dichlorobenzidine		ND		180
3-Nitroaniline		ND		350
4,6-Dinitro-2-methylphenol		ND		350
4-Bromophenyl phenyl ether		ND		180
4-Chloro-3-methylphenol		ND		180
4-Chloroaniline		ND		180
4-Chlorophenyl phenyl ether		ND		180
4-Methylphenol		ND		350
4-Nitroaniline		ND		350
4-Nitrophenol		ND		350
Acenaphthene		ND		180
Acenaphthylene		ND		180
Acetophenone		ND		180
Anthracene		ND		180
Atrazine		ND		180
Benzaldehyde		ND		180
Benzo(a)anthracene		ND		180
Benzo(a)pyrene		ND		180
Benzo(b)fluoranthene		ND		180
Benzo(g,h,i)perylene		ND		180
Benzo(k)fluoranthene		ND		180
Biphenyl		ND		180
bis (2-chloroisopropyl) ether		ND		180
Bis(2-chloroethoxy)methane		ND		180
Bis(2-chloroethyl)ether		ND		180
Bis(2-ethylhexyl) phthalate		ND		180
Butyl benzyl phthalate		ND		180
Caprolactam		ND		180
Carbazole		ND		180
Chrysene		ND		180
Dibenz(a,h)anthracene		ND		180
Dibenzofuran		ND		180
Diethyl phthalate		ND		180

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: SB-3-3-4

Lab Sample ID: 480-7605-14

Date Sampled: 07/19/2011 1320

Client Matrix: Solid

% Moisture: 5.2

Date Received: 07/22/2011 0940

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	480-25325	Instrument ID:	HP5973V
Prep Method:	3550B	Prep Batch:	480-24999	Lab File ID:	V3292.D
Dilution:	1.0			Initial Weight/Volume:	+30.26 g
Analysis Date:	07/28/2011 1205			Final Weight/Volume:	1 mL
Prep Date:	07/26/2011 1127			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
Dimethyl phthalate		ND		180
Di-n-butyl phthalate		ND		180
Di-n-octyl phthalate		ND		180
Fluoranthene		ND		180
Fluorene		ND		180
Hexachlorobenzene		ND		180
Hexachlorobutadiene		ND		180
Hexachlorocyclopentadiene		ND		180
Hexachloroethane		ND		180
Indeno(1,2,3-cd)pyrene		ND		180
Isophorone		ND		180
Naphthalene		ND		180
Nitrobenzene		ND		180
N-Nitrosodi-n-propylamine		ND		180
N-Nitrosodiphenylamine		ND		180
Pentachlorophenol		ND		350
Phenanthrene		ND		180
Phenol		ND		180
Pyrene		ND		180

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4,6-Tribromophenol	103		39 - 146
2-Fluorobiphenyl	104		37 - 120
2-Fluorophenol	87		18 - 120
Nitrobenzene-d5	96		34 - 132
Phenol-d5	86		11 - 120
p-Terphenyl-d14	112		58 - 147

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: SB-3-3-4

Lab Sample ID: 480-7605-14

Date Sampled: 07/19/2011 1320

Client Matrix: Solid

% Moisture: 5.2

Date Received: 07/22/2011 0940

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method: 8270C

Analysis Batch: 480-25325

Instrument ID: HP5973V

Prep Method: 3550B

Prep Batch: 480-24999

Lab File ID: V3292.D

Dilution: 1.0

Initial Weight/Volume: +30.26 g

Analysis Date: 07/28/2011 1205

Final Weight/Volume: 1 mL

Prep Date: 07/26/2011 1127

Injection Volume: 1 uL

Tentatively Identified Compounds

Number TIC's Found: 20

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	4.32	440	T J
	Unknown	10.22	370	T J
	Unknown	10.48	420	T J
	Unknown	10.77	560	T J
	Unknown	10.79	550	T J
	Unknown	10.98	230	T J
	Unknown	11.26	590	T J
	Unknown	11.29	580	T J
	Unknown	11.65	200	T J
	Unknown	11.69	570	T J
	Unknown	12.08	600	T J
	Unknown	12.45	520	T J
	Unknown	12.78	380	T J
	Unknown	13.10	370	T J
	Unknown	13.28	210	T J
	Unknown	13.40	300	T J
	Unknown	13.68	270	T J
	Unknown	13.95	190	T J
	Unknown	15.56	280	T J
	Unknown	15.87	230	T J

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: SB-4-2-3

Lab Sample ID: 480-7605-15

Client Matrix: Solid

% Moisture: 4.6

Date Sampled: 07/19/2011 1410

Date Received: 07/22/2011 0940

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	480-25140	Instrument ID:	HP5973V
Prep Method:	3550B	Prep Batch:	480-24999	Lab File ID:	V3263.D
Dilution:	1.0			Initial Weight/Volume:	+30.21 g
Analysis Date:	07/27/2011 1857			Final Weight/Volume:	1 mL
Prep Date:	07/26/2011 1127			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
2,4,5-Trichlorophenol		ND		180
2,4,6-Trichlorophenol		ND		180
2,4-Dichlorophenol		ND		180
2,4-Dimethylphenol		ND		180
2,4-Dinitrophenol		ND		340
2,4-Dinitrotoluene		ND		180
2,6-Dinitrotoluene		ND		180
2-Chloronaphthalene		ND		180
2-Chlorophenol		ND		180
2-Methylnaphthalene		ND		180
2-Methylphenol		ND		180
2-Nitroaniline		ND		340
2-Nitrophenol		ND		180
3,3'-Dichlorobenzidine		ND		180
3-Nitroaniline		ND		340
4,6-Dinitro-2-methylphenol		ND		340
4-Bromophenyl phenyl ether		ND		180
4-Chloro-3-methylphenol		ND		180
4-Chloroaniline		ND		180
4-Chlorophenyl phenyl ether		ND		180
4-Methylphenol		ND		340
4-Nitroaniline		ND		340
4-Nitrophenol		ND		340
Acenaphthene		ND		180
Acenaphthylene		ND		180
Acetophenone		ND		180
Anthracene		ND		180
Atrazine		ND		180
Benzaldehyde		ND		180
Benzo(a)anthracene		ND		180
Benzo(a)pyrene		ND		180
Benzo(b)fluoranthene		ND		180
Benzo(g,h,i)perylene		ND		180
Benzo(k)fluoranthene		ND		180
Biphenyl		ND		180
bis (2-chloroisopropyl) ether		ND		180
Bis(2-chloroethoxy)methane		ND		180
Bis(2-chloroethyl)ether		ND		180
Bis(2-ethylhexyl) phthalate		ND		180
Butyl benzyl phthalate		ND		180
Caprolactam		ND		180
Carbazole		ND		180
Chrysene		ND		180
Dibenz(a,h)anthracene		ND		180
Dibenzofuran		ND		180
Diethyl phthalate		ND		180

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: SB-4-2-3

Lab Sample ID: 480-7605-15

Date Sampled: 07/19/2011 1410

Client Matrix: Solid

% Moisture: 4.6

Date Received: 07/22/2011 0940

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	480-25140	Instrument ID:	HP5973V
Prep Method:	3550B	Prep Batch:	480-24999	Lab File ID:	V3263.D
Dilution:	1.0			Initial Weight/Volume:	+30.21 g
Analysis Date:	07/27/2011 1857			Final Weight/Volume:	1 mL
Prep Date:	07/26/2011 1127			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
Dimethyl phthalate		ND		180
Di-n-butyl phthalate		ND		180
Di-n-octyl phthalate		ND		180
Fluoranthene		ND		180
Fluorene		ND		180
Hexachlorobenzene		ND		180
Hexachlorobutadiene		ND		180
Hexachlorocyclopentadiene		ND		180
Hexachloroethane		ND		180
Indeno(1,2,3-cd)pyrene		ND		180
Isophorone		ND		180
Naphthalene		ND		180
Nitrobenzene		ND		180
N-Nitrosodi-n-propylamine		ND		180
N-Nitrosodiphenylamine		ND		180
Pentachlorophenol		ND		340
Phenanthrene		ND		180
Phenol		ND		180
Pyrene		ND		180

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4,6-Tribromophenol	103		39 - 146
2-Fluorobiphenyl	92		37 - 120
2-Fluorophenol	79		18 - 120
Nitrobenzene-d5	86		34 - 132
Phenol-d5	84		11 - 120
p-Terphenyl-d14	108		58 - 147

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: SB-4-2-3

Lab Sample ID: 480-7605-15

Date Sampled: 07/19/2011 1410

Client Matrix: Solid

% Moisture: 4.6

Date Received: 07/22/2011 0940

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method: 8270C

Analysis Batch: 480-25140

Instrument ID: HP5973V

Prep Method: 3550B

Prep Batch: 480-24999

Lab File ID: V3263.D

Dilution: 1.0

Initial Weight/Volume: +30.21 g

Analysis Date: 07/27/2011 1857

Final Weight/Volume: 1 mL

Prep Date: 07/26/2011 1127

Injection Volume: 1 uL

Tentatively Identified Compounds

Number TIC's Found: 2

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
79-0-5	Ethane, 1,1,2-trichloro-	2.23	270	T J N
79-34-5	Ethane, 1,1,2,2-tetrachloro-	4.37	650	T J N

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: FB-071911

Lab Sample ID: 480-7605-16FB

Date Sampled: 07/19/2011 1430

Client Matrix: Water

Date Received: 07/22/2011 0940

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	480-25148	Instrument ID:	HP5973W
Prep Method:	3510C	Prep Batch:	480-25094	Lab File ID:	W3011.D
Dilution:	1.0			Initial Weight/Volume:	1020 mL
Analysis Date:	07/27/2011 1730			Final Weight/Volume:	1 mL
Prep Date:	07/26/2011 1658			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	RL
2,4,5-Trichlorophenol	ND		4.9
2,4,6-Trichlorophenol	ND		4.9
2,4-Dichlorophenol	ND		4.9
2,4-Dimethylphenol	ND		4.9
2,4-Dinitrophenol	ND		9.8
2,4-Dinitrotoluene	ND		4.9
2,6-Dinitrotoluene	ND		4.9
2-Chloronaphthalene	ND		4.9
2-Chlorophenol	ND		4.9
2-Methylnaphthalene	ND		4.9
2-Methylphenol	ND		4.9
2-Nitroaniline	ND		9.8
2-Nitrophenol	ND		4.9
3,3'-Dichlorobenzidine	ND		4.9
3-Nitroaniline	ND		9.8
4,6-Dinitro-2-methylphenol	ND		9.8
4-Bromophenyl phenyl ether	ND		4.9
4-Chloro-3-methylphenol	ND		4.9
4-Chloroaniline	ND		4.9
4-Chlorophenyl phenyl ether	ND		4.9
4-Methylphenol	ND		9.8
4-Nitroaniline	ND		9.8
4-Nitrophenol	ND		9.8
Acenaphthene	ND		4.9
Acenaphthylene	ND		4.9
Acetophenone	ND		4.9
Anthracene	ND		4.9
Atrazine	ND		4.9
Benzaldehyde	ND		4.9
Benzo(a)anthracene	ND		4.9
Benzo(a)pyrene	ND		4.9
Benzo(b)fluoranthene	ND		4.9
Benzo(g,h,i)perylene	ND		4.9
Benzo(k)fluoranthene	ND		4.9
Biphenyl	ND		4.9
bis (2-chloroisopropyl) ether	ND		4.9
Bis(2-chloroethoxy)methane	ND		4.9
Bis(2-chloroethyl)ether	ND		4.9
Bis(2-ethylhexyl) phthalate	ND		4.9
Butyl benzyl phthalate	ND		4.9
Caprolactam	ND		4.9
Carbazole	ND		4.9
Chrysene	ND		4.9
Dibenz(a,h)anthracene	ND		4.9
Dibenzofuran	ND		9.8
Diethyl phthalate	ND		4.9

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: FB-071911

Lab Sample ID: 480-7605-16FB

Date Sampled: 07/19/2011 1430

Client Matrix: Water

Date Received: 07/22/2011 0940

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	480-25148	Instrument ID:	HP5973W
Prep Method:	3510C	Prep Batch:	480-25094	Lab File ID:	W3011.D
Dilution:	1.0			Initial Weight/Volume:	1020 mL
Analysis Date:	07/27/2011 1730			Final Weight/Volume:	1 mL
Prep Date:	07/26/2011 1658			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	RL
Dimethyl phthalate	ND		4.9
Di-n-butyl phthalate	ND		4.9
Di-n-octyl phthalate	ND		4.9
Fluoranthene	ND		4.9
Fluorene	ND		4.9
Hexachlorobenzene	ND		4.9
Hexachlorobutadiene	ND		4.9
Hexachlorocyclopentadiene	ND		4.9
Hexachloroethane	ND		4.9
Indeno(1,2,3-cd)pyrene	ND		4.9
Isophorone	ND		4.9
Naphthalene	22		4.9
Nitrobenzene	ND		4.9
N-Nitrosodi-n-propylamine	ND		4.9
N-Nitrosodiphenylamine	ND		4.9
Pentachlorophenol	ND		9.8
Phenanthrene	ND		4.9
Phenol	ND		4.9
Pyrene	ND		4.9

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4,6-Tribromophenol	115		52 - 132
2-Fluorobiphenyl	95		48 - 120
2-Fluorophenol	50		20 - 120
Nitrobenzene-d5	92		46 - 120
Phenol-d5	35		16 - 120
p-Terphenyl-d14	104		24 - 136

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: FB-071911

Lab Sample ID: 480-7605-16FB

Client Matrix: Water

Date Sampled: 07/19/2011 1430

Date Received: 07/22/2011 0940

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	480-25148	Instrument ID:	HP5973W
Prep Method:	3510C	Prep Batch:	480-25094	Lab File ID:	W3011.D
Dilution:	1.0			Initial Weight/Volume:	1020 mL
Analysis Date:	07/27/2011 1730			Final Weight/Volume:	1 mL
Prep Date:	07/26/2011 1658			Injection Volume:	1 uL

Tentatively Identified Compounds Number TIC's Found: 20

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
	Unknown	4.85	20	T J
	Unknown	5.08	19	T J
	Unknown	5.17	30	T J
	Unknown	5.22	24	T J
	Unknown	5.30	20	T J
	Unknown	5.50	21	T J
	Unknown Benzene Derivative	5.60	20	T J
124-18-5	Decane	5.65	110	T J N
13466-78-9	3-Carene	5.79	32	T J N
	Unknown	5.91	49	T J
	Unknown	5.96	22	T J
5989-27-5	D-Limonene	6.02	66	T J N
	Unknown	6.06	29	T J
	Unknown	6.09	19	T J
	Unknown	6.22	23	T J
	Unknown	6.28	25	T J
2847-72-5	Decane, 4-methyl-	6.32	21	T J N
6975-98-0	Decane, 2-methyl-	6.36	36	T J N
1120-21-4	Undecane	6.72	75	T J N
112-40-3	Dodecane	7.63	16	T J N

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: DUP-071911

Lab Sample ID: 480-7605-17FD

Date Sampled: 07/19/2011 0000

Client Matrix: Solid

% Moisture: 4.9

Date Received: 07/22/2011 0940

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	480-25325	Instrument ID:	HP5973V
Prep Method:	3550B	Prep Batch:	480-24999	Lab File ID:	V3293.D
Dilution:	1.0			Initial Weight/Volume:	+30.75 g
Analysis Date:	07/28/2011 1229			Final Weight/Volume:	1 mL
Prep Date:	07/26/2011 1127			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
2,4,5-Trichlorophenol		ND		170
2,4,6-Trichlorophenol		ND		170
2,4-Dichlorophenol		ND		170
2,4-Dimethylphenol		ND		170
2,4-Dinitrophenol		ND		340
2,4-Dinitrotoluene		ND		170
2,6-Dinitrotoluene		ND		170
2-Chloronaphthalene		ND		170
2-Chlorophenol		ND		170
2-Methylnaphthalene		ND		170
2-Methylphenol		ND		170
2-Nitroaniline		ND		340
2-Nitrophenol		ND		170
3,3'-Dichlorobenzidine		ND		170
3-Nitroaniline		ND		340
4,6-Dinitro-2-methylphenol		ND		340
4-Bromophenyl phenyl ether		ND		170
4-Chloro-3-methylphenol		ND		170
4-Chloroaniline		ND		170
4-Chlorophenyl phenyl ether		ND		170
4-Methylphenol		ND		340
4-Nitroaniline		ND		340
4-Nitrophenol		ND		340
Acenaphthene		ND		170
Acenaphthylene		ND		170
Acetophenone		ND		170
Anthracene		ND		170
Atrazine		ND		170
Benzaldehyde		ND		170
Benzo(a)anthracene		ND		170
Benzo(a)pyrene		ND		170
Benzo(b)fluoranthene		ND		170
Benzo(g,h,i)perylene		ND		170
Benzo(k)fluoranthene		ND		170
Biphenyl		ND		170
bis (2-chloroisopropyl) ether		ND		170
Bis(2-chloroethoxy)methane		ND		170
Bis(2-chloroethyl)ether		ND		170
Bis(2-ethylhexyl) phthalate		ND		170
Butyl benzyl phthalate		ND		170
Caprolactam		ND		170
Carbazole		ND		170
Chrysene		ND		170
Dibenz(a,h)anthracene		ND		170
Dibenzofuran		ND		170
Diethyl phthalate		ND		170

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: DUP-071911

Lab Sample ID: 480-7605-17FD

Date Sampled: 07/19/2011 0000

Client Matrix: Solid

% Moisture: 4.9

Date Received: 07/22/2011 0940

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	480-25325	Instrument ID:	HP5973V
Prep Method:	3550B	Prep Batch:	480-24999	Lab File ID:	V3293.D
Dilution:	1.0			Initial Weight/Volume:	+30.75 g
Analysis Date:	07/28/2011 1229			Final Weight/Volume:	1 mL
Prep Date:	07/26/2011 1127			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
Dimethyl phthalate		ND		170
Di-n-butyl phthalate		ND		170
Di-n-octyl phthalate		ND		170
Fluoranthene		ND		170
Fluorene		ND		170
Hexachlorobenzene		ND		170
Hexachlorobutadiene		ND		170
Hexachlorocyclopentadiene		ND		170
Hexachloroethane		ND		170
Indeno(1,2,3-cd)pyrene		ND		170
Isophorone		ND		170
Naphthalene		ND		170
Nitrobenzene		ND		170
N-Nitrosodi-n-propylamine		ND		170
N-Nitrosodiphenylamine		ND		170
Pentachlorophenol		ND		340
Phenanthrene		ND		170
Phenol		ND		170
Pyrene		ND		170

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4,6-Tribromophenol	3	X	39 - 146
2-Fluorobiphenyl	99		37 - 120
2-Fluorophenol	46		18 - 120
Nitrobenzene-d5	90		34 - 132
Phenol-d5	78		11 - 120
p-Terphenyl-d14	105		58 - 147

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: DUP-071911

Lab Sample ID: 480-7605-17FD

Date Sampled: 07/19/2011 0000

Client Matrix: Solid

% Moisture: 4.9

Date Received: 07/22/2011 0940

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method: 8270C

Analysis Batch: 480-25325

Instrument ID: HP5973V

Prep Method: 3550B

Prep Batch: 480-24999

Lab File ID: V3293.D

Dilution: 1.0

Initial Weight/Volume: +30.75 g

Analysis Date: 07/28/2011 1229

Final Weight/Volume: 1 mL

Prep Date: 07/26/2011 1127

Injection Volume: 1 uL

Tentatively Identified Compounds

Number TIC's Found: 4

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
79-0-5	Ethane, 1,1,2-trichloro-	2.16	300	T J N
79-34-5	Ethane, 1,1,2,2-tetrachloro-	4.32	690	T J N
	Unknown	10.79	200	T J
	Unknown	11.29	200	T J

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: DUP-071911

Lab Sample ID: 480-7605-17FD

Date Sampled: 07/19/2011 0000

Client Matrix: Solid

% Moisture: 4.9

Date Received: 07/22/2011 0940

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	480-25869	Instrument ID:	HP5973V
Prep Method:	3550B	Prep Batch:	480-25782	Lab File ID:	V3450.D
Dilution:	1.0			Initial Weight/Volume:	+30.25 g
Analysis Date:	08/02/2011 1520	Run Type:	RE	Final Weight/Volume:	1 mL
Prep Date:	08/01/2011 1218			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
2,4,5-Trichlorophenol		ND		180
2,4,6-Trichlorophenol		ND		180
2,4-Dichlorophenol		ND		180
2,4-Dimethylphenol		ND		180
2,4-Dinitrophenol		ND		340
2,4-Dinitrotoluene		ND		180
2,6-Dinitrotoluene		ND		180
2-Chloronaphthalene		ND		180
2-Chlorophenol		ND		180
2-Methylnaphthalene		ND		180
2-Methylphenol		ND		180
2-Nitroaniline		ND		340
2-Nitrophenol		ND		180
3,3'-Dichlorobenzidine		ND		180
3-Nitroaniline		ND		340
4,6-Dinitro-2-methylphenol		ND		340
4-Bromophenyl phenyl ether		ND		180
4-Chloro-3-methylphenol		ND		180
4-Chloroaniline		ND		180
4-Chlorophenyl phenyl ether		ND		180
4-Methylphenol		ND		340
4-Nitroaniline		ND		340
4-Nitrophenol		ND		340
Acenaphthene		ND		180
Acenaphthylene		ND		180
Acetophenone		ND		180
Anthracene		ND		180
Atrazine		ND		180
Benzaldehyde		ND		180
Benzo(a)anthracene		ND		180
Benzo(a)pyrene		ND		180
Benzo(b)fluoranthene		ND		180
Benzo(g,h,i)perylene		ND		180
Benzo(k)fluoranthene		ND		180
Biphenyl		ND		180
bis (2-chloroisopropyl) ether		ND		180
Bis(2-chloroethoxy)methane		ND		180
Bis(2-chloroethyl) ether		ND		180
Bis(2-ethylhexyl) phthalate		ND		180
Butyl benzyl phthalate		ND		180
Caprolactam		ND		180
Carbazole		ND		180
Chrysene		ND		180
Dibenz(a,h)anthracene		ND		180
Dibenzofuran		ND		180
Diethyl phthalate		ND		180

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: DUP-071911

Lab Sample ID: 480-7605-17FD

Date Sampled: 07/19/2011 0000

Client Matrix: Solid

% Moisture: 4.9

Date Received: 07/22/2011 0940

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	480-25869	Instrument ID:	HP5973V
Prep Method:	3550B	Prep Batch:	480-25782	Lab File ID:	V3450.D
Dilution:	1.0			Initial Weight/Volume:	+30.25 g
Analysis Date:	08/02/2011 1520	Run Type:	RE	Final Weight/Volume:	1 mL
Prep Date:	08/01/2011 1218			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
Dimethyl phthalate		ND		180
Di-n-butyl phthalate		ND		180
Di-n-octyl phthalate		ND		180
Fluoranthene		ND		180
Fluorene		ND		180
Hexachlorobenzene		ND		180
Hexachlorobutadiene		ND		180
Hexachlorocyclopentadiene		ND		180
Hexachloroethane		ND		180
Indeno(1,2,3-cd)pyrene		ND		180
Isophorone		ND		180
Naphthalene		ND		180
Nitrobenzene		ND		180
N-Nitrosodi-n-propylamine		ND		180
N-Nitrosodiphenylamine		ND		180
Pentachlorophenol		ND		340
Phenanthrene		ND		180
Phenol		ND		180
Pyrene		ND		180

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4,6-Tribromophenol	6	X	39 - 146
2-Fluorobiphenyl	95		37 - 120
2-Fluorophenol	43		18 - 120
Nitrobenzene-d5	77		34 - 132
Phenol-d5	79		11 - 120
p-Terphenyl-d14	114		58 - 147

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: DUP-071911

Lab Sample ID: 480-7605-17FD

Date Sampled: 07/19/2011 0000

Client Matrix: Solid

% Moisture: 4.9

Date Received: 07/22/2011 0940

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method: 8270C

Analysis Batch: 480-25869

Instrument ID: HP5973V

Prep Method: 3550B

Prep Batch: 480-25782

Lab File ID: V3450.D

Dilution: 1.0

Initial Weight/Volume: +30.25 g

Analysis Date: 08/02/2011 1520

Run Type: RE

Final Weight/Volume: 1 mL

Prep Date: 08/01/2011 1218

Injection Volume: 1 uL

Tentatively Identified Compounds

Number TIC's Found: 7

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
79-0-5	Ethane, 1,1,2-trichloro-	1.90	410	T J N
79-34-5	Ethane, 1,1,2,2-tetrachloro-	4.04	560	T J N
1120-21-4	Undecane	6.24	260	T J N
629-78-7	Heptadecane	10.57	160	T J N
	Unknown	10.59	200	T J
593-45-3	Octadecane	11.06	170	T J N
	Unknown	17.38	300	T J

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: FB-072011

Lab Sample ID: 480-7605-1FB

Date Sampled: 07/20/2011 0825

Client Matrix: Water

Date Received: 07/22/2011 0940

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	480-25147	Instrument ID:	ICAP1
Prep Method:	3005A	Prep Batch:	480-24885	Lab File ID:	I1072611A-4.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	07/26/2011 1632			Final Weight/Volume:	50 mL
Prep Date:	07/26/2011 0930				

Analyte	Result (mg/L)	Qualifier	RL
Aluminum	ND		0.20
Antimony	ND		0.020
Arsenic	ND		0.010
Barium	ND		0.0020
Beryllium	ND		0.0020
Cadmium	ND		0.0010
Calcium	ND		0.50
Chromium	0.0078		0.0040
Cobalt	ND		0.0040
Copper	ND		0.010
Iron	0.34		0.050
Lead	ND		0.0050
Magnesium	ND		0.20
Manganese	0.0043		0.0030
Nickel	ND		0.010
Potassium	ND		0.50
Selenium	ND		0.015
Silver	ND		0.0030
Sodium	ND		1.0
Thallium	ND		0.020
Vanadium	ND		0.0050
Zinc	0.021		0.010

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-24989	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-24841	Lab File ID:	H07251W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/25/2011 1751			Final Weight/Volume:	50 mL
Prep Date:	07/25/2011 1400				

Analyte	Result (mg/L)	Qualifier	RL
Mercury	ND		0.00020

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: GWP-10-10-12

Lab Sample ID: 480-7605-2

Date Sampled: 07/20/2011 1010

Client Matrix: Water

Date Received: 07/22/2011 0940

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	480-25147	Instrument ID:	ICAP1
Prep Method:	3005A	Prep Batch:	480-24885	Lab File ID:	I1072611A-4.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	07/26/2011 1634			Final Weight/Volume:	50 mL
Prep Date:	07/26/2011 0930				

Analyte	Result (mg/L)	Qualifier	RL
Aluminum	28.8 J		0.20
Antimony	ND		0.020
Arsenic	0.015		0.010
Barium	0.11		0.0020
Beryllium	ND		0.0020
Cadmium	ND		0.0010
Calcium	41.9		0.50
Chromium	0.11 J		0.0040
Cobalt	0.015		0.0040
Copper	0.070		0.010
Iron	35.8 J		0.050
Lead	0.022		0.0050
Magnesium	7.1		0.20
Manganese	0.36 J		0.0030
Nickel	0.069		0.010
Potassium	6.2		0.50
Selenium	ND		0.015
Silver	ND		0.0030
Sodium	14.1		1.0
Thallium	ND		0.020
Vanadium	0.060		0.0050
Zinc	0.21		0.010

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-24989	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-24841	Lab File ID:	H07251W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/25/2011 1754			Final Weight/Volume:	50 mL
Prep Date:	07/25/2011 1400				

Analyte	Result (mg/L)	Qualifier	RL
Mercury	ND		0.00020

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: GWP-10-20-22

Lab Sample ID: 480-7605-3

Date Sampled: 07/20/2011 1030

Client Matrix: Water

Date Received: 07/22/2011 0940

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	480-25147	Instrument ID:	ICAP1
Prep Method:	3005A	Prep Batch:	480-24885	Lab File ID:	I1072611A-4.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	07/26/2011 1649			Final Weight/Volume:	50 mL
Prep Date:	07/26/2011 0930				

Analyte	Result (mg/L)	Qualifier	RL
Aluminum	48.5		0.20
Antimony	ND		0.020
Arsenic	0.024		0.010
Barium	0.22		0.0020
Beryllium	ND		0.0020
Cadmium	ND		0.0010
Calcium	67.0		0.50
Chromium	0.46		0.0040
Cobalt	0.052		0.0040
Copper	0.11		0.010
Iron	72.3		0.050
Lead	0.065		0.0050
Magnesium	9.3		0.20
Manganese	4.8		0.0030
Nickel	0.23		0.010
Potassium	11.6		0.50
Selenium	ND		0.015
Silver	ND		0.0030
Sodium	40.6		1.0
Thallium	ND		0.020
Vanadium	0.076		0.0050
Zinc	0.45		0.010

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-24989	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-24841	Lab File ID:	H07251W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/25/2011 1805			Final Weight/Volume:	50 mL
Prep Date:	07/25/2011 1400				

Analyte	Result (mg/L)	Qualifier	RL
Mercury	ND		0.00020

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: GWP-10-30-32

Lab Sample ID: 480-7605-4

Date Sampled: 07/20/2011 1057

Client Matrix: Water

Date Received: 07/22/2011 0940

6010B Metals (ICP)

Analysis Method: 6010B

Analysis Batch: 480-25147

Instrument ID: ICAP1

Prep Method: 3005A

Prep Batch: 480-24885

Lab File ID: I1072611A-4.asc

Dilution: 1.0

Initial Weight/Volume: 50 mL

Analysis Date: 07/26/2011 1651

Final Weight/Volume: 50 mL

Prep Date: 07/26/2011 0930

Analyte	Result (mg/L)	Qualifier	RL
Aluminum	34.8		0.20
Antimony	ND		0.020
Arsenic	0.018		0.010
Barium	0.35		0.0020
Beryllium	0.0023		0.0020
Cadmium	ND		0.0010
Calcium	64.5		0.50
Chromium	0.36		0.0040
Cobalt	0.045		0.0040
Copper	0.099		0.010
Iron	66.2		0.050
Lead	0.051		0.0050
Magnesium	13.1		0.20
Manganese	3.5		0.0030
Nickel	0.18		0.010
Potassium	16.1		0.50
Selenium	ND		0.015
Silver	ND		0.0030
Sodium	34.9		1.0
Thallium	ND		0.020
Vanadium	0.069		0.0050
Zinc	0.30		0.010

7470A Mercury (CVAA)

Analysis Method: 7470A

Analysis Batch: 480-24989

Instrument ID: LEEMAN2

Prep Method: 7470A

Prep Batch: 480-24841

Lab File ID: H07251W1.PRN

Dilution: 1.0

Initial Weight/Volume: 30 mL

Analysis Date: 07/25/2011 1806

Final Weight/Volume: 50 mL

Prep Date: 07/25/2011 1400

Analyte	Result (mg/L)	Qualifier	RL
Mercury	ND		0.00020

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: GWP-10-40-42

Lab Sample ID: 480-7605-5

Date Sampled: 07/20/2011 1130

Client Matrix: Water

Date Received: 07/22/2011 0940

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	480-25147	Instrument ID:	ICAP1
Prep Method:	3005A	Prep Batch:	480-24885	Lab File ID:	11072611A-4.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	07/26/2011 1653			Final Weight/Volume:	50 mL
Prep Date:	07/26/2011 0930				

Analyte	Result (mg/L)	Qualifier	RL
Aluminum	16.5		0.20
Antimony	ND		0.020
Arsenic	0.012		0.010
Barium	0.42		0.0020
Beryllium	ND		0.0020
Cadmium	ND		0.0010
Calcium	46.7		0.50
Chromium	0.32		0.0040
Cobalt	0.019		0.0040
Copper	0.060		0.010
Iron	45.2		0.050
Lead	0.030		0.0050
Magnesium	9.1		0.20
Manganese	1.4		0.0030
Nickel	0.15		0.010
Potassium	25.3		0.50
Selenium	ND		0.015
Silver	ND		0.0030
Sodium	36.8		1.0
Thallium	ND		0.020
Vanadium	0.044		0.0050
Zinc	0.24		0.010

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-24989	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-24841	Lab File ID:	H07251W1 PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/25/2011 1808			Final Weight/Volume:	50 mL
Prep Date:	07/25/2011 1400				

Analyte	Result (mg/L)	Qualifier	RL
Mercury	ND		0.00020

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: GWP-10-50-52

Lab Sample ID: 480-7605-6

Date Sampled: 07/20/2011 1300

Client Matrix: Water

Date Received: 07/22/2011 0940

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	480-25147	Instrument ID:	ICAP1
Prep Method:	3005A	Prep Batch:	480-24885	Lab File ID:	I1072611A-4.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	07/26/2011 1656			Final Weight/Volume:	50 mL
Prep Date:	07/26/2011 0930				

Analyte	Result (mg/L)	Qualifier	RL
Aluminum	14.6		0.20
Antimony	ND		0.020
Arsenic	0.011		0.010
Barium	0.21		0.0020
Beryllium	ND		0.0020
Cadmium	ND		0.0010
Calcium	18.6		0.50
Chromium	0.26		0.0040
Cobalt	0.015		0.0040
Copper	0.046		0.010
Iron	42.8		0.050
Lead	0.027		0.0050
Magnesium	4.9		0.20
Manganese	1.1		0.0030
Nickel	0.12		0.010
Potassium	12.3		0.50
Selenium	ND		0.015
Silver	ND		0.0030
Sodium	24.1		1.0
Thallium	ND		0.020
Vanadium	0.045		0.0050
Zinc	0.10		0.010

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-24989	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-24841	Lab File ID:	H07251W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/25/2011 1810			Final Weight/Volume:	50 mL
Prep Date:	07/25/2011 1400				

Analyte	Result (mg/L)	Qualifier	RL
Mercury	ND		0.00020

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: GWP-10-60-62

Lab Sample ID: 480-7605-7

Date Sampled: 07/20/2011 1334

Client Matrix: Water

Date Received: 07/22/2011 0940

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	480-25147	Instrument ID:	ICAP1
Prep Method:	3005A	Prep Batch:	480-24885	Lab File ID:	I1072611A-4.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	07/26/2011 1658			Final Weight/Volume:	50 mL
Prep Date:	07/26/2011 0930				

Analyte	Result (mg/L)	Qualifier	RL
Aluminum	43.7		0.20
Antimony	ND		0.020
Arsenic	0.024		0.010
Barium	0.39		0.0020
Beryllium	0.0027		0.0020
Cadmium	ND		0.0010
Calcium	19.6		0.50
Chromium	0.48		0.0040
Cobalt	0.048		0.0040
Copper	0.13		0.010
Iron	99.0		0.050
Lead	0.071		0.0050
Magnesium	8.8		0.20
Manganese	4.1		0.0030
Nickel	0.18		0.010
Potassium	14.8		0.50
Selenium	ND		0.015
Silver	ND		0.0030
Sodium	42.9		1.0
Thallium	ND		0.020
Vanadium	0.098		0.0050
Zinc	0.23		0.010

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-24989	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-24841	Lab File ID:	H07251W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/25/2011 1811			Final Weight/Volume:	50 mL
Prep Date:	07/25/2011 1400				

Analyte	Result (mg/L)	Qualifier	RL
Mercury	ND		0.00020

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: DUP-072011

Lab Sample ID: 480-7605-8FD

Date Sampled: 07/20/2011 0000

Client Matrix: Water

Date Received: 07/22/2011 0940

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	480-25147	Instrument ID:	ICAP1
Prep Method:	3005A	Prep Batch:	480-24885	Lab File ID:	I1072611A-4.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	07/26/2011 1700			Final Weight/Volume:	50 mL
Prep Date:	07/26/2011 0930				

Analyte	Result (mg/L)	Qualifier	RL
Aluminum	15.6		0.20
Antimony	ND		0.020
Arsenic	0.012		0.010
Barium	0.42		0.0020
Beryllium	ND		0.0020
Cadmium	ND		0.0010
Calcium	44.7		0.50
Chromium	0.29		0.0040
Cobalt	0.020		0.0040
Copper	0.064		0.010
Iron	43.6		0.050
Lead	0.031		0.0050
Magnesium	8.7		0.20
Manganese	1.5		0.0030
Nickel	0.14		0.010
Potassium	24.0		0.50
Selenium	ND		0.015
Silver	ND		0.0030
Sodium	34.8		1.0
Thallium	ND		0.020
Vanadium	0.041		0.0050
Zinc	0.25		0.010

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-24989	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-24841	Lab File ID:	H07251W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/25/2011 1813			Final Weight/Volume:	50 mL
Prep Date:	07/25/2011 1400				

Analyte	Result (mg/L)	Qualifier	RL
Mercury	ND		0.00020

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: FB-072111

Lab Sample ID: 480-7605-10FB

Date Sampled: 07/21/2011 0850

Client Matrix: Water

Date Received: 07/22/2011 0940

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	480-25147	Instrument ID:	ICAP1
Prep Method:	3005A	Prep Batch:	480-24885	Lab File ID:	I1072611A-4.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	07/26/2011 1707			Final Weight/Volume:	50 mL
Prep Date:	07/26/2011 0930				

Analyte	Result (mg/L)	Qualifier	RL
Aluminum	ND		0.20
Antimony	ND		0.020
Arsenic	ND		0.010
Barium	ND		0.0020
Beryllium	ND		0.0020
Cadmium	ND		0.0010
Calcium	ND		0.50
Chromium	ND		0.0040
Cobalt	ND		0.0040
Copper	ND		0.010
Iron	ND		0.050
Lead	ND		0.0050
Magnesium	ND		0.20
Manganese	ND		0.0030
Nickel	ND		0.010
Potassium	ND		0.50
Selenium	ND		0.015
Silver	ND		0.0030
Sodium	ND		1.0
Thallium	ND		0.020
Vanadium	ND		0.0050
Zinc	ND		0.010

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-24989	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-24841	Lab File ID:	H07251W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/25/2011 1815			Final Weight/Volume:	50 mL
Prep Date:	07/25/2011 1400				

Analyte	Result (mg/L)	Qualifier	RL
Mercury	ND		0.00020

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: GWP-9-10-12

Lab Sample ID: 480-7605-11

Client Matrix: Water

Date Sampled: 07/21/2011 1025

Date Received: 07/22/2011 0940

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	480-25147	Instrument ID:	ICAP1
Prep Method:	3005A	Prep Batch:	480-24885	Lab File ID:	I1072611A-4.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	07/26/2011 1709			Final Weight/Volume:	50 mL
Prep Date:	07/26/2011 0930				

Analyte	Result (mg/L)	Qualifier	RL
Aluminum	9.5		0.20
Antimony	ND		0.020
Arsenic	ND		0.010
Barium	0.036		0.0020
Beryllium	ND		0.0020
Cadmium	ND		0.0010
Calcium	41.8		0.50
Chromium	0.23		0.0040
Cobalt	0.0045		0.0040
Copper	0.021		0.010
Iron	8.3		0.050
Lead	0.0062		0.0050
Magnesium	5.6		0.20
Manganese	0.094		0.0030
Nickel	0.11		0.010
Potassium	3.8		0.50
Selenium	ND		0.015
Silver	ND		0.0030
Sodium	8.9		1.0
Thallium	ND		0.020
Vanadium	0.018		0.0050
Zinc	0.019		0.010

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-24989	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-24841	Lab File ID:	H07251W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/25/2011 1820			Final Weight/Volume:	50 mL
Prep Date:	07/25/2011 1400				

Analyte	Result (mg/L)	Qualifier	RL
Mercury	ND		0.00020

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: SB-1-1.6-2.6

Lab Sample ID: 480-7605-12

Date Sampled: 07/19/2011 1000

Client Matrix: Solid

% Moisture: 7.0

Date Received: 07/22/2011 0940

6010B Metals (ICP)

Analysis Method: 6010B

Analysis Batch: 480-25919

Instrument ID: ICAP2

Prep Method: 3050B

Prep Batch: 480-25592

Lab File ID: I2080111A-7.asc

Dilution: 1.0

Initial Weight/Volume: +0.4900 g

Analysis Date: 08/01/2011 1620

Final Weight/Volume: 50 mL

Prep Date: 07/29/2011 1400

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Aluminum		5730		11.0
Antimony		ND		16.5
Arsenic		2.7		2.2
Barium		26.1		0.55
Beryllium		0.32		0.22
Cadmium		ND		0.22
Calcium		39400		54.8
Chromium		11.9		0.55
Cobalt		3.1		0.55
Copper		4.6		1.1
Iron		6380		11.0
Lead		8.5		1.1
Magnesium		1640		21.9
Manganese		95.5		0.22
Nickel		5.5		5.5
Potassium		752		32.9
Selenium		ND		4.4
Silver		ND		0.55
Sodium		ND		154
Thallium		ND		6.6
Vanadium		15.7		0.55
Zinc		15.8		2.2

7471A Mercury (CVAA)

Analysis Method: 7471A

Analysis Batch: 480-25178

Instrument ID: LEEMAN3

Prep Method: 7471A

Prep Batch: 480-24860

Lab File ID: J07261S1.PRN

Dilution: 1.0

Initial Weight/Volume: +0.5836 g

Analysis Date: 07/26/2011 1659

Final Weight/Volume: 50 mL

Prep Date: 07/26/2011 1400

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		ND		0.022

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: SB-2-2.5-3.5

Lab Sample ID: 480-7605-13

Date Sampled: 07/19/2011 1220

Client Matrix: Solid

% Moisture: 4.4

Date Received: 07/22/2011 0940

6010B Metals (ICP)

Analysis Method: 6010B

Analysis Batch: 480-25919

Instrument ID: ICAP2

Prep Method: 3050B

Prep Batch: 480-25592

Lab File ID: I2080111A-7.asc

Dilution: 1.0

Initial Weight/Volume: +0.4993 g

Analysis Date: 08/01/2011 1622

Final Weight/Volume: 50 mL

Prep Date: 07/29/2011 1400

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Aluminum		3050 J		10.5
Antimony		ND		15.7
Arsenic		ND		2.1
Barium		9.5		0.52
Beryllium		ND		0.21
Cadmium		ND		0.21
Calcium		140 J		52.3
Chromium		4.1		0.52
Cobalt		0.94		0.52
Copper		2.7		1.0
Iron		3830 J		10.5
Lead		3.5		1.0
Magnesium		318		20.9
Manganese		66.6		0.21
Nickel		ND		5.2
Potassium		220		31.4
Selenium		ND		4.2
Silver		ND		0.52
Sodium		ND		147
Thallium		ND		6.3
Vanadium		5.8 J		0.52
Zinc		6.5		2.1

7471A Mercury (CVAA)

Analysis Method: 7471A

Analysis Batch: 480-25178

Instrument ID: LEEMAN3

Prep Method: 7471A

Prep Batch: 480-24860

Lab File ID: J07261S1.PRN

Dilution: 1.0

Initial Weight/Volume: +0.5963 g

Analysis Date: 07/26/2011 1700

Final Weight/Volume: 50 mL

Prep Date: 07/26/2011 1400

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		ND		0.021

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: SB-3-3-4

Lab Sample ID: 480-7605-14

Date Sampled: 07/19/2011 1320

Client Matrix: Solid

% Moisture: 5.2

Date Received: 07/22/2011 0940

6010B Metals (ICP)

Analysis Method: 6010B

Analysis Batch: 480-25919

Instrument ID: ICAP2

Prep Method: 3050B

Prep Batch: 480-25592

Lab File ID: I2080111A-7.asc

Dilution: 1.0

Initial Weight/Volume: +0.5162 g

Analysis Date: 08/01/2011 1637

Final Weight/Volume: 50 mL

Prep Date: 07/29/2011 1400

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Aluminum		3180		10.2
Antimony		ND		15.3
Arsenic		ND		2.0
Barium		10.5		0.51
Beryllium		ND		0.20
Cadmium		ND		0.20
Calcium		9850		51.1
Chromium		5.7		0.51
Cobalt		1.2		0.51
Copper		2.8		1.0
Iron		3900		10.2
Lead		3.8		1.0
Magnesium		597		20.4
Manganese		57.3		0.20
Nickel		ND		5.1
Potassium		306		30.7
Selenium		ND		4.1
Silver		ND		0.51
Sodium		ND		143
Thallium		ND		6.1
Vanadium		6.8		0.51
Zinc		8.3		2.0

7471A Mercury (CVAA)

Analysis Method: 7471A

Analysis Batch: 480-25178

Instrument ID: LEEMAN3

Prep Method: 7471A

Prep Batch: 480-24860

Lab File ID: J07261S1.PRN

Dilution: 1.0

Initial Weight/Volume: +0.6356 g

Analysis Date: 07/26/2011 1711

Final Weight/Volume: 50 mL

Prep Date: 07/26/2011 1400

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		ND		0.020

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: SB-4-2-3

Lab Sample ID: 480-7605-15

Date Sampled: 07/19/2011 1410

Client Matrix: Solid

% Moisture: 4.6

Date Received: 07/22/2011 0940

6010B Metals (ICP)

Analysis Method: 6010B

Analysis Batch: 480-25919

Instrument ID: ICAP2

Prep Method: 3050B

Prep Batch: 480-25592

Lab File ID: I2080111A-7.asc

Dilution: 1.0

Initial Weight/Volume: +0.4490 g

Analysis Date: 08/01/2011 1639

Final Weight/Volume: 50 mL

Prep Date: 07/29/2011 1400

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Aluminum		1910		11.7
Antimony		ND		17.5
Arsenic		ND		2.3
Barium		3.9		0.58
Beryllium		ND		0.23
Cadmium		ND		0.23
Calcium		434		58.4
Chromium		3.9		0.58
Cobalt		ND		0.58
Copper		1.4		1.2
Iron		3290		11.7
Lead		1.2		1.2
Magnesium		287		23.3
Manganese		36.4		0.23
Nickel		ND		5.8
Potassium		160		35.0
Selenium		ND		4.7
Silver		ND		0.58
Sodium		ND		163
Thallium		ND		7.0
Vanadium		3.6		0.58
Zinc		4.6		2.3

7471A Mercury (CVAA)

Analysis Method: 7471A

Analysis Batch: 480-25178

Instrument ID: LEEMAN3

Prep Method: 7471A

Prep Batch: 480-24860

Lab File ID: J07261S1.PRN

Dilution: 1.0

Initial Weight/Volume: +0.6457 g

Analysis Date: 07/26/2011 1713

Final Weight/Volume: 50 mL

Prep Date: 07/26/2011 1400

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		ND		0.019

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: FB-071911

Lab Sample ID: 480-7605-16FB

Date Sampled: 07/19/2011 1430

Client Matrix: Water

Date Received: 07/22/2011 0940

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	480-25147	Instrument ID:	ICAP1
Prep Method:	3005A	Prep Batch:	480-24885	Lab File ID:	I1072611A-4.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	07/26/2011 1711			Final Weight/Volume:	50 mL
Prep Date:	07/26/2011 0930				

Analyte	Result (mg/L)	Qualifier	RL
Aluminum	0.32		0.20
Antimony	ND		0.020
Arsenic	ND		0.010
Barium	0.0034		0.0020
Beryllium	ND		0.0020
Cadmium	ND		0.0010
Calcium	1.8		0.50
Chromium	ND		0.0040
Cobalt	ND		0.0040
Copper	ND		0.010
Iron	0.49		0.050
Lead	ND		0.0050
Magnesium	ND		0.20
Manganese	0.0078		0.0030
Nickel	ND		0.010
Potassium	ND		0.50
Selenium	ND		0.015
Silver	ND		0.0030
Sodium	ND		1.0
Thallium	ND		0.020
Vanadium	ND		0.0050
Zinc	0.013		0.010

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-24989	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-24841	Lab File ID:	H07251W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/25/2011 1822			Final Weight/Volume:	50 mL
Prep Date:	07/25/2011 1400				

Analyte	Result (mg/L)	Qualifier	RL
Mercury	ND		0.00020

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID: DUP-071911

Lab Sample ID: 480-7605-17FD

Date Sampled: 07/19/2011 0000

Client Matrix: Solid

% Moisture: 4.9

Date Received: 07/22/2011 0940

6010B Metals (ICP)

Analysis Method: 6010B

Analysis Batch: 480-25919

Instrument ID: ICAP2

Prep Method: 3050B

Prep Batch: 480-25592

Lab File ID: I2080111A-7.asc

Dilution: 1.0

Initial Weight/Volume: +0.4913 g

Analysis Date: 08/01/2011 1641

Final Weight/Volume: 50 mL

Prep Date: 07/29/2011 1400

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Aluminum		3310		10.7
Antimony		ND		16.1
Arsenic		ND		2.1
Barium		14.1		0.54
Beryllium		0.21		0.21
Cadmium		ND		0.21
Calcium		16800		53.5
Chromium		8.3		0.54
Cobalt		1.5		0.54
Copper		3.4		1.1
Iron		4260		10.7
Lead		3.8		1.1
Magnesium		734		21.4
Manganese		82.5		0.21
Nickel		ND		5.4
Potassium		284		32.1
Selenium		ND		4.3
Silver		ND		0.54
Sodium		ND		150
Thallium		ND		6.4
Vanadium		7.8		0.54
Zinc		8.7		2.1

7471A Mercury (CVAA)

Analysis Method: 7471A

Analysis Batch: 480-25178

Instrument ID: LEEMAN3

Prep Method: 7471A

Prep Batch: 480-24860

Lab File ID: J07261S1.PRN

Dilution: 1.0

Initial Weight/Volume: +0.6100 g

Analysis Date: 07/26/2011 1714

Final Weight/Volume: 50 mL

Prep Date: 07/26/2011 1400

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		ND		0.021

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

General Chemistry

Client Sample ID: SB-1-1.5-2.5

Lab Sample ID: 480-7605-12

Client Matrix: Solid

Date Sampled: 07/19/2011 1000

Date Received: 07/22/2011 0940

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	7.0		%	0.10	1.0	Moisture
	Analysis Batch: 480-24836		Analysis Date: 07/25/2011 1117			DryWt Corrected: N
Percent Solids	93		%	0.10	1.0	Moisture
	Analysis Batch: 480-24836		Analysis Date: 07/25/2011 1117			DryWt Corrected: N

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

General Chemistry

Client Sample ID: SB-2-2.5-3.5

Lab Sample ID: 480-7605-13

Client Matrix: Solid

Date Sampled: 07/19/2011 1220

Date Received: 07/22/2011 0940

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	4.4		%	0.10	1.0	Moisture
	Analysis Batch: 480-24836		Analysis Date: 07/25/2011 1117			DryWt Corrected: N
Percent Solids	96		%	0.10	1.0	Moisture
	Analysis Batch: 480-24836		Analysis Date: 07/25/2011 1117			DryWt Corrected: N

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

General Chemistry

Client Sample ID: SB-3-3-4

Lab Sample ID: 480-7605-14

Client Matrix: Solid

Date Sampled: 07/19/2011 1320

Date Received: 07/22/2011 0940

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	5.2		%	0.10	1.0	Moisture
	Analysis Batch: 480-24836	Analysis Date: 07/25/2011 1117				DryWt Corrected: N
Percent Solids	95		%	0.10	1.0	Moisture
	Analysis Batch: 480-24836	Analysis Date: 07/25/2011 1117				DryWt Corrected: N

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

General Chemistry**Client Sample ID:** SB-4-2-3**Lab Sample ID:** 480-7605-15**Client Matrix:** Solid**Date Sampled:** 07/19/2011 1410**Date Received:** 07/22/2011 0940

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	4.6		%	0.10	1.0	Moisture
	Analysis Batch: 480-24836	Analysis Date: 07/25/2011 1117				DryWt Corrected: N
Percent Solids	95		%	0.10	1.0	Moisture
	Analysis Batch: 480-24836	Analysis Date: 07/25/2011 1117				DryWt Corrected: N

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7605-1

General Chemistry

Client Sample ID: DUP-071911

Lab Sample ID: 480-7605-17FD

Date Sampled: 07/19/2011 0000

Client Matrix: Solid

Date Received: 07/22/2011 0940

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	4.9		%	0.10	1.0	Moisture
	Analysis Batch: 480-24836	Analysis Date: 07/25/2011 1117				DryWt Corrected: N
Percent Solids	95		%	0.10	1.0	Moisture
	Analysis Batch: 480-24836	Analysis Date: 07/25/2011 1117				DryWt Corrected: N

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: GWP-9-20-22

Lab Sample ID: 480-7633-1

Client Matrix: Water

Date Sampled: 07/21/2011 1115

Date Received: 07/23/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-25103	Instrument ID:	HP5975T
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	T9879.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/27/2011 0603			Final Weight/Volume:	5 mL
Prep Date:	07/27/2011 0603				

Analyte	Result (ug/L)	Qualifier	RL
1,1,1-Trichloroethane	ND		1.0
1,1,2,2-Tetrachloroethane	ND		1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0
1,1,2-Trichloroethane	ND		1.0
1,1-Dichloroethane	ND		1.0
1,1-Dichloroethene	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,2-Dibromo-3-Chloropropane	ND		1.0
1,2-Dibromoethane	ND		1.0
1,2-Dichlorobenzene	ND		1.0
1,2-Dichloroethane	ND		1.0
1,2-Dichloropropane	ND		1.0
1,3-Dichlorobenzene	ND		1.0
1,4-Dichlorobenzene	ND		1.0
2-Butanone (MEK)	ND		10
2-Hexanone	ND		5.0
4-Methyl-2-pentanone (MIBK)	ND		5.0
Acetone	ND		10
Benzene	ND		1.0
Bromodichloromethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
Carbon disulfide	ND		1.0
Carbon tetrachloride	ND		1.0
Chlorobenzene	ND		1.0
Chloroethane	ND		1.0
Chloroform	ND		1.0
Chloromethane	ND		1.0
cis-1,2-Dichloroethene	ND		1.0
cis-1,3-Dichloropropene	ND		1.0
Cyclohexane	ND		1.0
Dibromochloromethane	ND		1.0
Dichlorodifluoromethane	ND		1.0
Ethylbenzene	ND		1.0
Isopropylbenzene	ND		1.0
Methyl acetate	ND		1.0
Methyl tert-butyl ether	ND		1.0
Methylcyclohexane	ND		1.0
Methylene Chloride	ND		1.0
Styrene	ND		1.0
Tetrachloroethene	ND		1.0
Toluene	ND		1.0
trans-1,2-Dichloroethene	ND		1.0
trans-1,3-Dichloropropene	ND		1.0
Trichloroethene	ND		1.0
Trichlorofluoromethane	ND		1.0

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: GWP-9-20-22

Lab Sample ID: 480-7633-1

Date Sampled: 07/21/2011 1115

Client Matrix: Water

Date Received: 07/23/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-25103	Instrument ID:	HP5975T
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	T9879.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/27/2011 0603			Final Weight/Volume:	5 mL
Prep Date:	07/27/2011 0603				

Analyte	Result (ug/L)	Qualifier	RL
Vinyl chloride	ND		1.0
Xylenes, Total	ND		2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	107		66 - 137
4-Bromofluorobenzene (Surr)	95		73 - 120
Toluene-d8 (Surr)	98		71 - 126

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: GWP-9-20-22

Lab Sample ID: 480-7633-1

Date Sampled: 07/21/2011 1115

Client Matrix: Water

Date Received: 07/23/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 480-25103

Instrument ID: HP5975T

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: T9879.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 07/27/2011 0603

Final Weight/Volume: 5 mL

Prep Date: 07/27/2011 0603

Tentatively Identified Compounds

Number TIC's Found: 0

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
	Tentatively Identified Compound		None	

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: GWP-9-30-32

Lab Sample ID: 480-7633-2

Date Sampled: 07/21/2011 1144

Client Matrix: Water

Date Received: 07/23/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-25103	Instrument ID:	HP5975T
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	T9880.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/27/2011 0627			Final Weight/Volume:	5 mL
Prep Date:	07/27/2011 0627				

Analyte	Result (ug/L)	Qualifier	RL
1,1,1-Trichloroethane	ND		1.0
1,1,2,2-Tetrachloroethane	ND		1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0
1,1,2-Trichloroethane	ND		1.0
1,1-Dichloroethane	ND		1.0
1,1-Dichloroethene	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,2-Dibromo-3-Chloropropane	ND		1.0
1,2-Dibromoethane	ND		1.0
1,2-Dichlorobenzene	ND		1.0
1,2-Dichloroethane	ND		1.0
1,2-Dichloropropane	ND		1.0
1,3-Dichlorobenzene	ND		1.0
1,4-Dichlorobenzene	ND		1.0
2-Butanone (MEK)	ND		10
2-Hexanone	ND		5.0
4-Methyl-2-pentanone (MIBK)	ND		5.0
Acetone	ND		10
Benzene	ND		1.0
Bromodichloromethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
Carbon disulfide	ND		1.0
Carbon tetrachloride	ND		1.0
Chlorobenzene	ND		1.0
Chloroethane	ND		1.0
Chloroform	ND		1.0
Chloromethane	ND		1.0
cis-1,2-Dichloroethene	ND		1.0
cis-1,3-Dichloropropene	ND		1.0
Cyclohexane	ND		1.0
Dibromochloromethane	ND		1.0
Dichlorodifluoromethane	ND		1.0
Ethylbenzene	ND		1.0
Isopropylbenzene	ND		1.0
Methyl acetate	ND		1.0
Methyl tert-butyl ether	ND		1.0
Methylcyclohexane	ND		1.0
Methylene Chloride	ND		1.0
Styrene	ND		1.0
Tetrachloroethene	ND		1.0
Toluene	ND		1.0
trans-1,2-Dichloroethene	ND		1.0
trans-1,3-Dichloropropene	ND		1.0
Trichloroethene	ND		1.0
Trichlorofluoromethane	ND		1.0

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: GWP-9-30-32

Lab Sample ID: 480-7633-2

Client Matrix: Water

Date Sampled: 07/21/2011 1144

Date Received: 07/23/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-25103	Instrument ID:	HP5975T
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	T9880.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/27/2011 0627			Final Weight/Volume:	5 mL
Prep Date:	07/27/2011 0627				

Analyte	Result (ug/L)	Qualifier	RL
Vinyl chloride	ND		1.0
Xylenes, Total	ND		2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	104		66 - 137
4-Bromofluorobenzene (Surr)	94		73 - 120
Toluene-d8 (Surr)	95		71 - 126

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: GWP-9-30-32

Lab Sample ID: 480-7633-2

Date Sampled: 07/21/2011 1144

Client Matrix: Water

Date Received: 07/23/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 480-25103

Instrument ID: HP5975T

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: T9880.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 07/27/2011 0627

Final Weight/Volume: 5 mL

Prep Date: 07/27/2011 0627

Tentatively Identified Compounds

Number TIC's Found: 1

Gas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
	Unknown	3.69	6.7	T J

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: GWP-9-40-42

Lab Sample ID: 480-7633-3

Date Sampled: 07/21/2011 1325

Client Matrix: Water

Date Received: 07/23/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-25103	Instrument ID:	HP5975T
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	T9881.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/27/2011 0650			Final Weight/Volume:	5 mL
Prep Date:	07/27/2011 0650				

Analyte	Result (ug/L)	Qualifier	RL
1,1,1-Trichloroethane	ND		1.0
1,1,2,2-Tetrachloroethane	ND		1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0
1,1,2-Trichloroethane	ND		1.0
1,1-Dichloroethane	ND		1.0
1,1-Dichloroethene	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,2-Dibromo-3-Chloropropane	ND		1.0
1,2-Dibromoethane	ND		1.0
1,2-Dichlorobenzene	ND		1.0
1,2-Dichloroethane	ND		1.0
1,2-Dichloropropane	ND		1.0
1,3-Dichlorobenzene	ND		1.0
1,4-Dichlorobenzene	ND		1.0
2-Butanone (MEK)	ND		10
2-Hexanone	ND		5.0
4-Methyl-2-pentanone (MIBK)	ND		5.0
Acetone	ND		10
Benzene	ND		1.0
Bromodichloromethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
Carbon disulfide	ND		1.0
Carbon tetrachloride	ND		1.0
Chlorobenzene	ND		1.0
Chloroethane	ND		1.0
Chloroform	ND		1.0
Chloromethane	ND		1.0
cis-1,2-Dichloroethene	ND		1.0
cis-1,3-Dichloropropene	ND		1.0
Cyclohexane	ND		1.0
Dibromochloromethane	ND		1.0
Dichlorodifluoromethane	ND		1.0
Ethylbenzene	ND		1.0
Isopropylbenzene	ND		1.0
Methyl acetate	ND		1.0
Methyl tert-butyl ether	ND		1.0
Methylcyclohexane	ND		1.0
Methylene Chloride	ND		1.0
Styrene	ND		1.0
Tetrachloroethene	ND		1.0
Toluene	ND		1.0
trans-1,2-Dichloroethene	ND		1.0
trans-1,3-Dichloropropene	ND		1.0
Trichloroethene	ND		1.0
Trichlorofluoromethane	ND		1.0

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: GWP-9-40-42

Lab Sample ID: 480-7633-3

Date Sampled: 07/21/2011 1325

Client Matrix: Water

Date Received: 07/23/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-25103	Instrument ID:	HP5975T
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	T9881.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/27/2011 0650			Final Weight/Volume:	5 mL
Prep Date:	07/27/2011 0650				

Analyte	Result (ug/L)	Qualifier	RL
Vinyl chloride	ND		1.0
Xylenes, Total	ND		2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	107		66 - 137
4-Bromofluorobenzene (Surr)	95		73 - 120
Toluene-d8 (Surr)	97		71 - 126

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: GWP-9-40-42

Lab Sample ID: 480-7633-3

Client Matrix: Water

Date Sampled: 07/21/2011 1325

Date Received: 07/23/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 480-25103

Instrument ID: HP5975T

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: T9881.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 07/27/2011 0650

Final Weight/Volume: 5 mL

Prep Date: 07/27/2011 0650

Tentatively Identified Compounds

Number TIC's Found: 0

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
	Tentatively Identified Compound		None	

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: GWP-9-60-62

Lab Sample ID: 480-7633-4

Date Sampled: 07/21/2011 1408

Client Matrix: Water

Date Received: 07/23/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-25103	Instrument ID:	HP5975T
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	T9882.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/27/2011 0713			Final Weight/Volume:	5 mL
Prep Date:	07/27/2011 0713				

Analyte	Result (ug/L)	Qualifier	RL
1,1,1-Trichloroethane	ND		1.0
1,1,2,2-Tetrachloroethane	ND		1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0
1,1,2-Trichloroethane	ND		1.0
1,1-Dichloroethane	ND		1.0
1,1-Dichloroethene	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,2-Dibromo-3-Chloropropane	ND		1.0
1,2-Dibromoethane	ND		1.0
1,2-Dichlorobenzene	ND		1.0
1,2-Dichloroethane	ND		1.0
1,2-Dichloropropane	ND		1.0
1,3-Dichlorobenzene	ND		1.0
1,4-Dichlorobenzene	ND		1.0
2-Butanone (MEK)	ND		10
2-Hexanone	ND		5.0
4-Methyl-2-pentanone (MIBK)	ND		5.0
Acetone	ND		10
Benzene	ND		1.0
Bromodichloromethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
Carbon disulfide	ND		1.0
Carbon tetrachloride	ND		1.0
Chlorobenzene	ND		1.0
Chloroethane	ND		1.0
Chloroform	ND		1.0
Chloromethane	ND		1.0
cis-1,2-Dichloroethene	ND		1.0
cis-1,3-Dichloropropene	ND		1.0
Cyclohexane	ND		1.0
Dibromochloromethane	ND		1.0
Dichlorodifluoromethane	ND		1.0
Ethylbenzene	ND		1.0
Isopropylbenzene	ND		1.0
Methyl acetate	ND		1.0
Methyl tert-butyl ether	ND		1.0
Methylcyclohexane	ND		1.0
Methylene Chloride	ND		1.0
Styrene	ND		1.0
Tetrachloroethene	ND		1.0
Toluene	ND		1.0
trans-1,2-Dichloroethene	ND		1.0
trans-1,3-Dichloropropene	ND		1.0
Trichloroethene	ND		1.0
Trichlorofluoromethane	ND		1.0

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: GWP-9-60-62

Lab Sample ID: 480-7633-4

Client Matrix: Water

Date Sampled: 07/21/2011 1408

Date Received: 07/23/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-25103	Instrument ID:	HP5975T
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	T9882.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/27/2011 0713			Final Weight/Volume:	5 mL
Prep Date:	07/27/2011 0713				

Analyte	Result (ug/L)	Qualifier	RL
Vinyl chloride	ND		1.0
Xylenes, Total	ND		2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	107		66 - 137
4-Bromofluorobenzene (Surr)	93		73 - 120
Toluene-d8 (Surr)	96		71 - 126

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: GWP-9-60-52

Lab Sample ID: 480-7633-4

Client Matrix: Water

Date Sampled: 07/21/2011 1408

Date Received: 07/23/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 480-25103

Instrument ID: HP5975T

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: T9882.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 07/27/2011 0713

Final Weight/Volume: 5 mL

Prep Date: 07/27/2011 0713

Tentatively Identified Compounds

Number TIC's Found: 1

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
	Unknown	3.69	2.9	T J

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: GWP-9-60-62

Lab Sample ID: 480-7633-5

Date Sampled: 07/21/2011 1445

Client Matrix: Water

Date Received: 07/23/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-25103	Instrument ID:	HP5975T
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	T9883.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/27/2011 0737			Final Weight/Volume:	5 mL
Prep Date:	07/27/2011 0737				

Analyte	Result (ug/L)	Qualifier	RL
1,1,1-Trichloroethane	ND		1.0
1,1,2,2-Tetrachloroethane	ND		1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0
1,1,2-Trichloroethane	ND		1.0
1,1-Dichloroethane	ND		1.0
1,1-Dichloroethene	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,2-Dibromo-3-Chloropropane	ND		1.0
1,2-Dibromoethane	ND		1.0
1,2-Dichlorobenzene	ND		1.0
1,2-Dichloroethane	ND		1.0
1,2-Dichloropropane	ND		1.0
1,3-Dichlorobenzene	ND		1.0
1,4-Dichlorobenzene	ND		1.0
2-Butanone (MEK)	ND		10
2-Hexanone	ND		5.0
4-Methyl-2-pentanone (MIBK)	ND		5.0
Acetone	ND		10
Benzene	ND		1.0
Bromodichloromethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
Carbon disulfide	ND		1.0
Carbon tetrachloride	ND		1.0
Chlorobenzene	ND		1.0
Chloroethane	ND		1.0
Chloroform	ND		1.0
Chloromethane	ND		1.0
cis-1,2-Dichloroethene	ND		1.0
cis-1,3-Dichloropropene	ND		1.0
Cyclohexane	ND		1.0
Dibromochloromethane	ND		1.0
Dichlorodifluoromethane	ND		1.0
Ethylbenzene	ND		1.0
Isopropylbenzene	ND		1.0
Methyl acetate	ND		1.0
Methyl tert-butyl ether	ND		1.0
Methylcyclohexane	ND		1.0
Methylene Chloride	ND		1.0
Styrene	ND		1.0
Tetrachloroethene	ND		1.0
Toluene	ND		1.0
trans-1,2-Dichloroethene	ND		1.0
trans-1,3-Dichloropropene	ND		1.0
Trichloroethene	ND		1.0
Trichlorofluoromethane	ND		1.0

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: GWP-9-60-62

Lab Sample ID: 480-7633-5

Date Sampled: 07/21/2011 1445

Client Matrix: Water

Date Received: 07/23/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-25103	Instrument ID:	HP5975T
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	T9883.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/27/2011 0737			Final Weight/Volume:	5 mL
Prep Date:	07/27/2011 0737				

Analyte	Result (ug/L)	Qualifier	RL
Vinyl chloride	ND		1.0
Xylenes, Total	ND		2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	108		66 - 137
4-Bromofluorobenzene (Surr)	94		73 - 120
Toluene-d8 (Surr)	95		71 - 126

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: GWP-9-60-62

Lab Sample ID: 480-7633-5

Date Sampled: 07/21/2011 1445

Client Matrix: Water

Date Received: 07/23/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 480-25103

Instrument ID: HP5975T

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: T9883.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 07/27/2011 0737

Final Weight/Volume: 5 mL

Prep Date: 07/27/2011 0737

Tentatively Identified Compounds

Number TIC's Found: 0

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
	Tentatively Identified Compound		None	

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: FB-072211

Lab Sample ID: 480-7633-6

Date Sampled: 07/22/2011 0720

Client Matrix: Water

Date Received: 07/23/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-25103	Instrument ID:	HP5975T
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	T9884.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/27/2011 0801			Final Weight/Volume:	5 mL
Prep Date:	07/27/2011 0801				

Analyte	Result (ug/L)	Qualifier	RL
1,1,1-Trichloroethane	ND		1.0
1,1,2,2-Tetrachloroethane	ND		1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0
1,1,2-Trichloroethane	ND		1.0
1,1-Dichloroethane	ND		1.0
1,1-Dichloroethene	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,2-Dibromo-3-Chloropropane	ND		1.0
1,2-Dibromoethane	ND		1.0
1,2-Dichlorobenzene	ND		1.0
1,2-Dichloroethane	ND		1.0
1,2-Dichloropropane	ND		1.0
1,3-Dichlorobenzene	ND		1.0
1,4-Dichlorobenzene	ND		1.0
2-Butanone (MEK)	ND		10
2-Hexanone	ND		5.0
4-Methyl-2-pentanone (MIBK)	ND		5.0
Acetone	ND		10
Benzene	ND		1.0
Bromodichloromethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
Carbon disulfide	ND		1.0
Carbon tetrachloride	ND		1.0
Chlorobenzene	ND		1.0
Chloroethane	ND		1.0
Chloroform	ND		1.0
Chloromethane	ND		1.0
cis-1,2-Dichloroethene	ND		1.0
cis-1,3-Dichloropropene	ND		1.0
Cyclohexane	ND		1.0
Dibromochloromethane	ND		1.0
Dichlorodifluoromethane	ND		1.0
Ethylbenzene	ND		1.0
Isopropylbenzene	ND		1.0
Methyl acetate	ND		1.0
Methyl tert-butyl ether	ND		1.0
Methylcyclohexane	ND		1.0
Methylene Chloride	ND		1.0
Styrene	ND		1.0
Tetrachloroethene	ND		1.0
Toluene	ND		1.0
trans-1,2-Dichloroethene	ND		1.0
trans-1,3-Dichloropropene	ND		1.0
Trichloroethene	ND		1.0
Trichlorofluoromethane	ND		1.0

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: FB-072211

Lab Sample ID: 480-7633-6

Client Matrix: Water

Date Sampled: 07/22/2011 0720

Date Received: 07/23/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-25103	Instrument ID:	HP5975T
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	T9884.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/27/2011 0801			Final Weight/Volume:	5 mL
Prep Date:	07/27/2011 0801				

Analyte	Result (ug/L)	Qualifier	RL
Vinyl chloride	ND		1.0
Xylenes, Total	ND		2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	104		66 - 137
4-Bromofluorobenzene (Surr)	94		73 - 120
Toluene-d8 (Surr)	98		71 - 126

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: FB-072211

Lab Sample ID: 480-7633-6

Date Sampled: 07/22/2011 0720

Client Matrix: Water

Date Received: 07/23/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 480-25103

Instrument ID: HP5975T

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: T9884.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 07/27/2011 0801

Final Weight/Volume: 5 mL

Prep Date: 07/27/2011 0801

Tentatively Identified Compounds

Number TIC's Found: 1

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
	Unknown	3.69	5.2	T J

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: GWP-6-8-10

Lab Sample ID: 480-7633-7

Client Matrix: Water

Date Sampled: 07/22/2011 0845

Date Received: 07/23/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-24949	Instrument ID:	HP5973P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P4159.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/26/2011 1457			Final Weight/Volume:	5 mL
Prep Date:	07/26/2011 1457				

Analyte	Result (ug/L)	Qualifier	RL
1,1,1-Trichloroethane	ND		1.0
1,1,2,2-Tetrachloroethane	ND		1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0
1,1,2-Trichloroethane	ND		1.0
1,1-Dichloroethane	ND		1.0
1,1-Dichloroethene	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,2-Dibromo-3-Chloropropane	ND		1.0
1,2-Dibromoethane	ND		1.0
1,2-Dichlorobenzene	ND		1.0
1,2-Dichloroethane	ND		1.0
1,2-Dichloropropane	ND		1.0
1,3-Dichlorobenzene	ND		1.0
1,4-Dichlorobenzene	ND		1.0
2-Butanone (MEK)	ND		10
2-Hexanone	ND		5.0
4-Methyl-2-pentanone (MIBK)	ND		5.0
Acetone	ND		10
Benzene	ND		1.0
Bromodichloromethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
Carbon disulfide	ND		1.0
Carbon tetrachloride	ND		1.0
Chlorobenzene	ND		1.0
Chloroethane	ND		1.0
Chloroform	ND		1.0
Chloromethane	ND		1.0
cis-1,2-Dichloroethene	ND		1.0
cis-1,3-Dichloropropene	ND		1.0
Cyclohexane	ND		1.0
Dibromochloromethane	ND		1.0
Dichlorodifluoromethane	ND		1.0
Ethylbenzene	ND		1.0
Isopropylbenzene	ND		1.0
Methyl acetate	ND		1.0
Methyl tert-butyl ether	ND		1.0
Methylcyclohexane	ND		1.0
Methylene Chloride	ND		1.0
Styrene	ND		1.0
Tetrachloroethene	1.7		1.0
Toluene	ND		1.0
trans-1,2-Dichloroethene	ND		1.0
trans-1,3-Dichloropropene	ND		1.0
Trichloroethene	ND		1.0
Trichlorofluoromethane	ND		1.0

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: GWP-6-8-10

Lab Sample ID: 480-7633-7

Date Sampled: 07/22/2011 0845

Client Matrix: Water

Date Received: 07/23/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-24949	Instrument ID:	HP5973P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P4159.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/26/2011 1457			Final Weight/Volume:	5 mL
Prep Date:	07/26/2011 1457				

Analyte	Result (ug/L)	Qualifier	RL
Vinyl chloride	ND		1.0
Xylenes, Total	ND		2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	93		66 - 137
4-Bromofluorobenzene (Surr)	82		73 - 120
Toluene-d8 (Surr)	86		71 - 126

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: GWP-6-8-10

Lab Sample ID: 480-7633-7

Date Sampled: 07/22/2011 0845

Client Matrix: Water

Date Received: 07/23/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 480-24949

Instrument ID: HP5973P

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: P4159.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 07/26/2011 1457

Final Weight/Volume: 5 mL

Prep Date: 07/26/2011 1457

Tentatively Identified Compounds

Number TIC's Found: 1

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
	Unknown	6.51	3.1	T J

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: GWP-6-18-20

Lab Sample ID: 480-7633-9

Date Sampled: 07/22/2011 0903

Client Matrix: Water

Date Received: 07/23/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-24949	Instrument ID:	HP5973P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P4160.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/26/2011 1522			Final Weight/Volume:	5 mL
Prep Date:	07/26/2011 1522				

Analyte	Result (ug/L)	Qualifier	RL
1,1,1-Trichloroethane	ND		1.0
1,1,2,2-Tetrachloroethane	ND		1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0
1,1,2-Trichloroethane	ND		1.0
1,1-Dichloroethane	ND		1.0
1,1-Dichloroethene	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,2-Dibromo-3-Chloropropane	ND		1.0
1,2-Dibromoethane	ND		1.0
1,2-Dichlorobenzene	ND		1.0
1,2-Dichloroethane	ND		1.0
1,2-Dichloropropane	ND		1.0
1,3-Dichlorobenzene	ND		1.0
1,4-Dichlorobenzene	ND		1.0
2-Butanone (MEK)	ND		10
2-Hexanone	ND		5.0
4-Methyl-2-pentanone (MIBK)	ND		5.0
Acetone	ND		10
Benzene	ND		1.0
Bromodichloromethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
Carbon disulfide	ND		1.0
Carbon tetrachloride	ND		1.0
Chlorobenzene	ND		1.0
Chloroethane	ND		1.0
Chloroform	ND		1.0
Chloromethane	ND		1.0
cis-1,2-Dichloroethene	ND		1.0
cis-1,3-Dichloropropene	ND		1.0
Cyclohexane	ND		1.0
Dibromochloromethane	ND		1.0
Dichlorodifluoromethane	ND		1.0
Ethylbenzene	ND		1.0
Isopropylbenzene	ND		1.0
Methyl acetate	ND		1.0
Methyl tert-butyl ether	ND		1.0
Methylcyclohexane	ND		1.0
Methylene Chloride	ND		1.0
Styrene	ND		1.0
Tetrachloroethene	ND		1.0
Toluene	ND		1.0
trans-1,2-Dichloroethene	ND		1.0
trans-1,3-Dichloropropene	ND		1.0
Trichloroethene	ND		1.0
Trichlorofluoromethane	ND		1.0

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: GWP-6-18-20

Lab Sample ID: 480-7633-9

Client Matrix: Water

Date Sampled: 07/22/2011 0903

Date Received: 07/23/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 480-24949

Instrument ID: HP5973P

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: P4160.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 07/26/2011 1522

Final Weight/Volume: 5 mL

Prep Date: 07/26/2011 1522

Analyte	Result (ug/L)	Qualifier	RL
Vinyl chloride	ND		1.0
Xylenes, Total	ND		2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	93		66 - 137
4-Bromofluorobenzene (Surr)	82		73 - 120
Toluene-d8 (Surr)	86		71 - 126

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: GWP-6-18-20

Lab Sample ID: 480-7633-9

Date Sampled: 07/22/2011 0903

Client Matrix: Water

Date Received: 07/23/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 480-24949

Instrument ID: HP5973P

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: P4160.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 07/26/2011 1522

Final Weight/Volume: 5 mL

Prep Date: 07/26/2011 1522

Tentatively Identified Compounds

Number TIC's Found: 0

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
	Tentatively Identified Compound		None	

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: GWP-6-28-30

Lab Sample ID: 480-7633-10

Date Sampled: 07/22/2011 0922

Client Matrix: Water

Date Received: 07/23/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-24949	Instrument ID:	HP5973P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P4161.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/26/2011 1547			Final Weight/Volume:	5 mL
Prep Date:	07/26/2011 1547				

Analyte	Result (ug/L)	Qualifier	RL
1,1,1-Trichloroethane	ND		1.0
1,1,2,2-Tetrachloroethane	ND		1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0
1,1,2-Trichloroethane	ND		1.0
1,1-Dichloroethane	ND		1.0
1,1-Dichloroethene	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,2-Dibromo-3-Chloropropane	ND		1.0
1,2-Dibromoethane	ND		1.0
1,2-Dichlorobenzene	ND		1.0
1,2-Dichloroethane	ND		1.0
1,2-Dichloropropane	ND		1.0
1,3-Dichlorobenzene	ND		1.0
1,4-Dichlorobenzene	ND		1.0
2-Butanone (MEK)	ND		10
2-Hexanone	ND		5.0
4-Methyl-2-pentanone (MIBK)	ND		5.0
Acetone	ND		10
Benzene	ND		1.0
Bromodichloromethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
Carbon disulfide	ND		1.0
Carbon tetrachloride	ND		1.0
Chlorobenzene	ND		1.0
Chloroethane	ND		1.0
Chloroform	ND		1.0
Chloromethane	ND		1.0
cis-1,2-Dichloroethene	ND		1.0
cis-1,3-Dichloropropene	ND		1.0
Cyclohexane	ND		1.0
Dibromochloromethane	ND		1.0
Dichlorodifluoromethane	ND		1.0
Ethylbenzene	ND		1.0
Isopropylbenzene	ND		1.0
Methyl acetate	ND		1.0
Methyl tert-butyl ether	ND		1.0
Methylcyclohexane	ND		1.0
Methylene Chloride	ND		1.0
Styrene	ND		1.0
Tetrachloroethene	ND		1.0
Toluene	ND		1.0
trans-1,2-Dichloroethene	ND		1.0
trans-1,3-Dichloropropene	ND		1.0
Trichloroethene	ND		1.0
Trichlorofluoromethane	ND		1.0

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: GWP-6-28-30

Lab Sample ID: 480-7633-10

Date Sampled: 07/22/2011 0922

Client Matrix: Water

Date Received: 07/23/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-24949	Instrument ID:	HP5973P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P4161.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/26/2011 1547			Final Weight/Volume:	5 mL
Prep Date:	07/26/2011 1547				

Analyte	Result (ug/L)	Qualifier	RL
Vinyl chloride	ND		1.0
Xylenes, Total	ND		2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	96		66 - 137
4-Bromofluorobenzene (Surr)	84		73 - 120
Toluene-d8 (Surr)	86		71 - 126

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: GWP-6-28-30

Lab Sample ID: 480-7633-10

Client Matrix: Water

Date Sampled: 07/22/2011 0922

Date Received: 07/23/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 480-24949

Instrument ID: HP5973P

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: P4161.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 07/26/2011 1547

Final Weight/Volume: 5 mL

Prep Date: 07/26/2011 1547

Tentatively Identified Compounds

Number TIC's Found: 0

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
	Tentatively Identified Compound		None	

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: GWP-6-38-40

Lab Sample ID: 480-7633-11

Client Matrix: Water

Date Sampled: 07/22/2011 1000

Date Received: 07/23/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-24949	Instrument ID:	HP5973P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P4162.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/26/2011 1612			Final Weight/Volume:	5 mL
Prep Date:	07/26/2011 1612				

Analyte	Result (ug/L)	Qualifier	RL
1,1,1-Trichloroethane	ND		1.0
1,1,2,2-Tetrachloroethane	ND		1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0
1,1,2-Trichloroethane	ND		1.0
1,1-Dichloroethane	ND		1.0
1,1-Dichloroethene	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,2-Dibromo-3-Chloropropane	ND		1.0
1,2-Dibromoethane	ND		1.0
1,2-Dichlorobenzene	ND		1.0
1,2-Dichloroethane	ND		1.0
1,2-Dichloropropane	ND		1.0
1,3-Dichlorobenzene	ND		1.0
1,4-Dichlorobenzene	ND		1.0
2-Butanone (MEK)	ND		10
2-Hexanone	ND		5.0
4-Methyl-2-pentanone (MIBK)	ND		5.0
Acetone	ND		10
Benzene	ND		1.0
Bromodichloromethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
Carbon disulfide	ND		1.0
Carbon tetrachloride	ND		1.0
Chlorobenzene	ND		1.0
Chloroethane	ND		1.0
Chloroform	ND		1.0
Chloromethane	ND		1.0
cis-1,2-Dichloroethene	ND		1.0
cis-1,3-Dichloropropene	ND		1.0
Cyclohexane	ND		1.0
Dibromochloromethane	ND		1.0
Dichlorodifluoromethane	ND		1.0
Ethylbenzene	ND		1.0
Isopropylbenzene	ND		1.0
Methyl acetate	ND		1.0
Methyl tert-butyl ether	ND		1.0
Methylcyclohexane	ND		1.0
Methylene Chloride	ND		1.0
Styrene	ND		1.0
Tetrachloroethene	ND		1.0
Toluene	ND		1.0
trans-1,2-Dichloroethene	ND		1.0
trans-1,3-Dichloropropene	ND		1.0
Trichloroethene	ND		1.0
Trichlorofluoromethane	ND		1.0

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: GWP-6-38-40

Lab Sample ID: 480-7633-11

Client Matrix: Water

Date Sampled: 07/22/2011 1000

Date Received: 07/23/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-24949	Instrument ID:	HP5973P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P4162.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/26/2011 1612			Final Weight/Volume:	5 mL
Prep Date:	07/26/2011 1612				

Analyte	Result (ug/L)	Qualifier	RL
Vinyl chloride	ND		1.0
Xylenes, Total	ND		2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	96		66 - 137
4-Bromofluorobenzene (Surr)	81		73 - 120
Toluene-d8 (Surr)	86		71 - 126

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: GWP-6-38-40

Lab Sample ID: 480-7633-11

Date Sampled: 07/22/2011 1000

Client Matrix: Water

Date Received: 07/23/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 480-24949

Instrument ID: HP5973P

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: P4162.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 07/26/2011 1612

Final Weight/Volume: 5 mL

Prep Date: 07/26/2011 1612

Tentatively Identified Compounds

Number TIC's Found: 0

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
	Tentatively Identified Compound		None	

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: GWP-6-48-50

Lab Sample ID: 480-7633-12

Client Matrix: Water

Date Sampled: 07/22/2011 1047

Date Received: 07/23/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-24949	Instrument ID:	HP5973P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P4163.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/26/2011 1637			Final Weight/Volume:	5 mL
Prep Date:	07/26/2011 1637				

Analyte	Result (ug/L)	Qualifier	RL
1,1,1-Trichloroethane	ND		1.0
1,1,2,2-Tetrachloroethane	ND		1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0
1,1,2-Trichloroethane	ND		1.0
1,1-Dichloroethane	ND		1.0
1,1-Dichloroethene	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,2-Dibromo-3-Chloropropane	ND		1.0
1,2-Dibromoethane	ND		1.0
1,2-Dichlorobenzene	ND		1.0
1,2-Dichloroethane	ND		1.0
1,2-Dichloropropane	ND		1.0
1,3-Dichlorobenzene	ND		1.0
1,4-Dichlorobenzene	ND		1.0
2-Butanone (MEK)	ND		10
2-Hexanone	ND		5.0
4-Methyl-2-pentanone (MIBK)	ND		5.0
Acetone	ND		10
Benzene	ND		1.0
Bromodichloromethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
Carbon disulfide	ND		1.0
Carbon tetrachloride	ND		1.0
Chlorobenzene	ND		1.0
Chloroethane	ND		1.0
Chloroform	ND		1.0
Chloromethane	ND		1.0
cis-1,2-Dichloroethene	ND		1.0
cis-1,3-Dichloropropene	ND		1.0
Cyclohexane	ND		1.0
Dibromochloromethane	ND		1.0
Dichlorodifluoromethane	ND		1.0
Ethylbenzene	ND		1.0
Isopropylbenzene	ND		1.0
Methyl acetate	ND		1.0
Methyl tert-butyl ether	ND		1.0
Methylcyclohexane	ND		1.0
Methylene Chloride	ND		1.0
Styrene	ND		1.0
Tetrachloroethene	ND		1.0
Toluene	ND		1.0
trans-1,2-Dichloroethene	ND		1.0
trans-1,3-Dichloropropene	ND		1.0
Trichloroethene	ND		1.0
Trichlorofluoromethane	ND		1.0

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: GWP-6-48-50

Lab Sample ID: 480-7633-12

Date Sampled: 07/22/2011 1047

Client Matrix: Water

Date Received: 07/23/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-24949	Instrument ID:	HP5973P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P4163.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/26/2011 1637			Final Weight/Volume:	5 mL
Prep Date:	07/26/2011 1637				

Analyte	Result (ug/L)	Qualifier	RL
Vinyl chloride	ND		1.0
Xylenes, Total	ND		2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	94		66 - 137
4-Bromofluorobenzene (Surr)	81		73 - 120
Toluene-d8 (Surr)	86		71 - 126

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: GWP-6-48-50

Lab Sample ID: 480-7633-12

Client Matrix: Water

Date Sampled: 07/22/2011 1047

Date Received: 07/23/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 480-24949

Instrument ID: HP5973P

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: P4163.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 07/26/2011 1637

Final Weight/Volume: 5 mL

Prep Date: 07/26/2011 1637

Tentatively Identified Compounds

Number TIC's Found: 5

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
115-7-1	Propene	2.71	25	T J N
115-11-7	1-Propene, 2-methyl-	3.11	4.3	T J N
	Unknown	3.22	2.9	T J
109-67-1	1-Pentene	4.05	2.6	T J N
	Unknown	6.51	5.4	T J

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: GWP-6-58-60

Lab Sample ID: 480-7633-13

Date Sampled: 07/22/2011 1150

Client Matrix: Water

Date Received: 07/23/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-24949	Instrument ID:	HP5973P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P4164.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/26/2011 1702			Final Weight/Volume:	5 mL
Prep Date:	07/26/2011 1702				

Analyte	Result (ug/L)	Qualifier	RL
1,1,1-Trichloroethane	ND	JS	1.0
1,1,2,2-Tetrachloroethane	ND		1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0
1,1,2-Trichloroethane	ND		1.0
1,1-Dichloroethane	ND		1.0
1,1-Dichloroethene	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,2-Dibromo-3-Chloropropane	ND		1.0
1,2-Dibromoethane	ND		1.0
1,2-Dichlorobenzene	ND		1.0
1,2-Dichloroethane	ND		1.0
1,2-Dichloropropane	ND		1.0
1,3-Dichlorobenzene	ND		1.0
1,4-Dichlorobenzene	ND		1.0
2-Butanone (MEK)	ND		10
2-Hexanone	ND		5.0
4-Methyl-2-pentanone (MIBK)	ND		5.0
Acetone	ND		10
Benzene	ND		1.0
Bromodichloromethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
Carbon disulfide	ND		1.0
Carbon tetrachloride	ND		1.0
Chlorobenzene	ND		1.0
Chloroethane	ND		1.0
Chloroform	ND		1.0
Chloromethane	ND		1.0
cis-1,2-Dichloroethene	ND		1.0
cis-1,3-Dichloropropene	ND		1.0
Cyclohexane	ND		1.0
Dibromochloromethane	ND		1.0
Dichlorodifluoromethane	ND		1.0
Ethylbenzene	ND		1.0
Isopropylbenzene	ND		1.0
Methyl acetate	ND		1.0
Methyl tert-butyl ether	ND		1.0
Methylcyclohexane	ND		1.0
Methylene Chloride	ND		1.0
Styrene	ND		1.0
Tetrachloroethene	ND		1.0
Toluene	ND		1.0
trans-1,2-Dichloroethene	ND		1.0
trans-1,3-Dichloropropene	ND		1.0
Trichloroethene	ND		1.0
Trichlorofluoromethane	ND		1.0

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: GWP-6-68-60

Lab Sample ID: 480-7633-13

Client Matrix: Water

Date Sampled: 07/22/2011 1150

Date Received: 07/23/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-24949	Instrument ID:	HP5973P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P4164.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/26/2011 1702			Final Weight/Volume:	5 mL
Prep Date:	07/26/2011 1702				

Analyte	Result (ug/L)	Qualifier	RL
Vinyl chloride	ND	JS	1.0
Xylenes, Total	ND	6	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	96		66 - 137
4-Bromofluorobenzene (Surr)	81		73 - 120
Toluene-d8 (Surr)	86		71 - 126

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: GWP-6-58-60

Lab Sample ID: 480-7633-13

Client Matrix: Water

Date Sampled: 07/22/2011 1150

Date Received: 07/23/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B
Prep Method: 5030B
Dilution: 1.0
Analysis Date: 07/26/2011 1702
Prep Date: 07/26/2011 1702

Analysis Batch: 480-24949
Prep Batch: N/A

Instrument ID: HP5973P
Lab File ID: P4164.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Tentatively Identified Compounds

Number TIC's Found: 4

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
115-7-1	Propene	2.73	31	T J N
115-11-7	1-Propene, 2-methyl-	3.12	6.3	T J N
109-67-1	1-Pentene	4.05	3.6	T J N
	Unknown	6.51	4.2	T J

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-7633-14

Date Sampled: 07/22/2011 0000

Client Matrix: Water

Date Received: 07/23/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-24949	Instrument ID:	HP5973P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P4167.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/26/2011 1827			Final Weight/Volume:	5 mL
Prep Date:	07/26/2011 1827				

Analyte	Result (ug/L)	Qualifier	RL
1,1,1-Trichloroethane	ND		1.0
1,1,2,2-Tetrachloroethane	ND		1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0
1,1,2-Trichloroethane	ND		1.0
1,1-Dichloroethane	ND		1.0
1,1-Dichloroethene	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,2-Dibromo-3-Chloropropane	ND		1.0
1,2-Dibromoethane	ND		1.0
1,2-Dichlorobenzene	ND		1.0
1,2-Dichloroethane	ND		1.0
1,2-Dichloropropane	ND		1.0
1,3-Dichlorobenzene	ND		1.0
1,4-Dichlorobenzene	ND		1.0
2-Butanone (MEK)	ND		10
2-Hexanone	ND		5.0
4-Methyl-2-pentanone (MIBK)	ND		5.0
Acetone	ND		10
Benzene	ND		1.0
Bromodichloromethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
Carbon disulfide	ND		1.0
Carbon tetrachloride	ND		1.0
Chlorobenzene	ND		1.0
Chloroethane	ND		1.0
Chloroform	ND		1.0
Chloromethane	ND		1.0
cis-1,2-Dichloroethene	ND		1.0
cis-1,3-Dichloropropene	ND		1.0
Cyclohexane	ND		1.0
Dibromochloromethane	ND		1.0
Dichlorodifluoromethane	ND		1.0
Ethylbenzene	ND		1.0
Isopropylbenzene	ND		1.0
Methyl acetate	ND		1.0
Methyl tert-butyl ether	ND		1.0
Methylcyclohexane	ND		1.0
Methylene Chloride	ND		1.0
Styrene	ND		1.0
Tetrachloroethene	ND		1.0
Toluene	ND		1.0
trans-1,2-Dichloroethene	ND		1.0
trans-1,3-Dichloropropene	ND		1.0
Trichloroethene	ND		1.0
Trichlorofluoromethane	ND		1.0

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-7633-14

Date Sampled: 07/22/2011 0000

Client Matrix: Water

Date Received: 07/23/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-24949	Instrument ID:	HP5973P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P4167.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/26/2011 1827			Final Weight/Volume:	5 mL
Prep Date:	07/26/2011 1827				

Analyte	Result (ug/L)	Qualifier	RL
Vinyl chloride	ND		1.0
Xylenes, Total	ND		2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	95		66 - 137
4-Bromofluorobenzene (Surr)	80		73 - 120
Toluene-d8 (Surr)	85		71 - 126

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-7633-14

Date Sampled: 07/22/2011 0000

Client Matrix: Water

Date Received: 07/23/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 480-24949

Instrument ID: HP5973P

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: P4167.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 07/26/2011 1827

Final Weight/Volume: 5 mL

Prep Date: 07/26/2011 1827

Tentatively Identified Compounds

Number TIC's Found: 0

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
	Tentatively Identified Compound		None	

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: GWP-7-8-10

Lab Sample ID: 480-7684-1

Date Sampled: 07/25/2011 0840

Client Matrix: Water

Date Received: 07/26/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-24985	Instrument ID:	HP5973G
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	G4497.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/26/2011 1632			Final Weight/Volume:	5 mL
Prep Date:	07/26/2011 1632				

Analyte	Result (ug/L)	Qualifier	RL
1,1,1-Trichloroethane	ND		1.0
1,1,2,2-Tetrachloroethane	ND		1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0
1,1,2-Trichloroethane	ND		1.0
1,1-Dichloroethane	ND		1.0
1,1-Dichloroethene	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,2-Dibromo-3-Chloropropane	ND		1.0
1,2-Dibromoethane	ND		1.0
1,2-Dichlorobenzene	ND		1.0
1,2-Dichloroethane	ND		1.0
1,2-Dichloropropane	ND		1.0
1,3-Dichlorobenzene	ND		1.0
1,4-Dichlorobenzene	ND		1.0
2-Butanone (MEK)	ND		10
2-Hexanone	ND		5.0
4-Methyl-2-pentanone (MIBK)	ND		5.0
Acetone	ND		10
Benzene	1.6		1.0
Bromodichloromethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
Carbon disulfide	ND		1.0
Carbon tetrachloride	ND		1.0
Chlorobenzene	ND		1.0
Chloroethane	ND		1.0
Chloroform	ND		1.0
Chloromethane	ND		1.0
cis-1,2-Dichloroethene	ND		1.0
cis-1,3-Dichloropropene	ND		1.0
Cyclohexane	ND		1.0
Dibromochloromethane	ND		1.0
Dichlorodifluoromethane	ND		1.0
Ethylbenzene	ND		1.0
Isopropylbenzene	ND		1.0
Methyl acetate	ND		1.0
Methyl tert-butyl ether	ND		1.0
Methylcyclohexane	ND		1.0
Methylene Chloride	ND		1.0
Styrene	ND		1.0
Tetrachloroethene	2.4		1.0
Toluene	6.7		1.0
trans-1,2-Dichloroethene	ND		1.0
trans-1,3-Dichloropropene	ND		1.0
Trichloroethene	1.1		1.0
Trichlorofluoromethane	ND		1.0

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: GWP-7-8-10

Lab Sample ID: 480-7684-1

Client Matrix: Water

Date Sampled: 07/25/2011 0840

Date Received: 07/26/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-24985	Instrument ID:	HP5973G
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	G4497.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/26/2011 1632			Final Weight/Volume:	5 mL
Prep Date:	07/26/2011 1632				

Analyte	Result (ug/L)	Qualifier	RL
Vinyl chloride	ND		1.0
Xylenes, Total	2.3		2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	121		66 - 137
4-Bromofluorobenzene (Surr)	104		73 - 120
Toluene-d8 (Surr)	112		71 - 126

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: GWP-7-8-10

Lab Sample ID: 480-7684-1

Date Sampled: 07/25/2011 0840

Client Matrix: Water

Date Received: 07/26/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 480-24985

Instrument ID: HP5973G

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: G4497.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 07/26/2011 1632

Final Weight/Volume: 5 mL

Prep Date: 07/26/2011 1632

Tentatively Identified Compounds

Number TIC's Found: 0

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
	Tentatively Identified Compound		None	

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: GWP-7-18-20

Lab Sample ID: 480-7684-2

Date Sampled: 07/25/2011 0910

Client Matrix: Water

Date Received: 07/26/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-24985	Instrument ID:	HP5973G
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	G4498.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/26/2011 1656			Final Weight/Volume:	5 mL
Prep Date:	07/26/2011 1656				

Analyte	Result (ug/L)	Qualifier	RL
1,1,1-Trichloroethane	ND		1.0
1,1,2,2-Tetrachloroethane	ND		1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0
1,1,2-Trichloroethane	ND		1.0
1,1-Dichloroethane	ND		1.0
1,1-Dichloroethene	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,2-Dibromo-3-Chloropropane	ND		1.0
1,2-Dibromoethane	ND		1.0
1,2-Dichlorobenzene	ND		1.0
1,2-Dichloroethane	ND		1.0
1,2-Dichloropropane	ND		1.0
1,3-Dichlorobenzene	ND		1.0
1,4-Dichlorobenzene	ND		1.0
2-Butanone (MEK)	ND		10
2-Hexanone	ND		5.0
4-Methyl-2-pentanone (MIBK)	ND		5.0
Acetone	ND		10
Benzene	ND		1.0
Bromodichloromethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
Carbon disulfide	ND		1.0
Carbon tetrachloride	ND		1.0
Chlorobenzene	ND		1.0
Chloroethane	ND		1.0
Chloroform	ND		1.0
Chloromethane	ND		1.0
cis-1,2-Dichloroethene	ND		1.0
cis-1,3-Dichloropropene	ND		1.0
Cyclohexane	ND		1.0
Dibromochloromethane	ND		1.0
Dichlorodifluoromethane	ND		1.0
Ethylbenzene	ND		1.0
Isopropylbenzene	ND		1.0
Methyl acetate	ND		1.0
Methyl tert-butyl ether	ND		1.0
Methylcyclohexane	ND		1.0
Methylene Chloride	ND		1.0
Styrene	ND		1.0
Tetrachloroethene	ND		1.0
Toluene	4.1		1.0
trans-1,2-Dichloroethene	ND		1.0
trans-1,3-Dichloropropene	ND		1.0
Trichloroethene	ND		1.0
Trichlorofluoromethane	ND		1.0

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: GWP-7-18-20

Lab Sample ID: 480-7684-2

Client Matrix: Water

Date Sampled: 07/25/2011 0910

Date Received: 07/26/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-24985	Instrument ID:	HP5973G
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	G4498.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/26/2011 1656			Final Weight/Volume:	5 mL
Prep Date:	07/26/2011 1656				

Analyte	Result (ug/L)	Qualifier	RL
Vinyl chloride	ND		1.0
Xylenes, Total	ND		2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	121		66 - 137
4-Bromofluorobenzene (Surr)	106		73 - 120
Toluene-d8 (Surr)	112		71 - 126

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: GWP-7-18-20

Lab Sample ID: 480-7684-2

Date Sampled: 07/25/2011 0910

Client Matrix: Water

Date Received: 07/26/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 480-24985

Instrument ID: HP5973G

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: G4498.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 07/26/2011 1656

Final Weight/Volume: 5 mL

Prep Date: 07/26/2011 1656

Tentatively Identified Compounds

Number TIC's Found: 0

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
	Tentatively Identified Compound		None	

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: GWP-7-28-30

Lab Sample ID: 480-7684-3

Date Sampled: 07/25/2011 0940

Client Matrix: Water

Date Received: 07/26/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-24985	Instrument ID:	HP5973G
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	G4499.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/26/2011 1719			Final Weight/Volume:	5 mL
Prep Date:	07/26/2011 1719				

Analyte	Result (ug/L)	Qualifier	RL
1,1,1-Trichloroethane	ND		1.0
1,1,2,2-Tetrachloroethane	ND		1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0
1,1,2-Trichloroethane	ND		1.0
1,1-Dichloroethane	ND		1.0
1,1-Dichloroethene	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,2-Dibromo-3-Chloropropane	ND		1.0
1,2-Dibromoethane	ND		1.0
1,2-Dichlorobenzene	ND		1.0
1,2-Dichloroethane	ND		1.0
1,2-Dichloropropane	ND		1.0
1,3-Dichlorobenzene	ND		1.0
1,4-Dichlorobenzene	ND		1.0
2-Butanone (MEK)	ND		10
2-Hexanone	ND		5.0
4-Methyl-2-pentanone (MIBK)	ND		5.0
Acetone	ND		10
Benzene	ND		1.0
Bromodichloromethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
Carbon disulfide	ND		1.0
Carbon tetrachloride	ND		1.0
Chlorobenzene	ND		1.0
Chloroethane	ND		1.0
Chloroform	ND		1.0
Chloromethane	ND		1.0
cis-1,2-Dichloroethene	ND		1.0
cis-1,3-Dichloropropene	ND		1.0
Cyclohexane	ND		1.0
Dibromochloromethane	ND		1.0
Dichlorodifluoromethane	ND		1.0
Ethylbenzene	ND		1.0
Isopropylbenzene	ND		1.0
Methyl acetate	ND		1.0
Methyl tert-butyl ether	ND		1.0
Methylcyclohexane	ND		1.0
Methylene Chloride	ND		1.0
Styrene	ND		1.0
Tetrachloroethene	ND		1.0
Toluene	1.8		1.0
trans-1,2-Dichloroethene	ND		1.0
trans-1,3-Dichloropropene	ND		1.0
Trichloroethene	ND		1.0
Trichlorofluoromethane	ND		1.0

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: GWP-7-28-30

Lab Sample ID: 480-7684-3

Date Sampled: 07/25/2011 0940

Client Matrix: Water

Date Received: 07/26/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-24985	Instrument ID:	HP5973G
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	G4499.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/26/2011 1719			Final Weight/Volume:	5 mL
Prep Date:	07/26/2011 1719				

Analyte	Result (ug/L)	Qualifier	RL
Vinyl chloride	ND		1.0
Xylenes, Total	ND		2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	121		66 - 137
4-Bromofluorobenzene (Surr)	104		73 - 120
Toluene-d8 (Surr)	106		71 - 126

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: GWP-7-28-30

Lab Sample ID: 480-7684-3

Client Matrix: Water

Date Sampled: 07/25/2011 0940

Date Received: 07/26/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 480-24985

Instrument ID: HP5973G

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: G4499.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 07/26/2011 1719

Final Weight/Volume: 5 mL

Prep Date: 07/26/2011 1719

Tentatively Identified Compounds

Number TIC's Found: 0

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
	Tentatively Identified Compound		None	

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: GWP-7-38-40

Lab Sample ID: 480-7684-4

Date Sampled: 07/25/2011 1010

Client Matrix: Water

Date Received: 07/26/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-24985	Instrument ID:	HP5973G
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	G4500.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/26/2011 1742			Final Weight/Volume:	5 mL
Prep Date:	07/26/2011 1742				

Analyte	Result (ug/L)	Qualifier	RL
1,1,1-Trichloroethane	ND		1.0
1,1,2,2-Tetrachloroethane	ND		1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0
1,1,2-Trichloroethane	ND		1.0
1,1-Dichloroethane	ND		1.0
1,1-Dichloroethene	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,2-Dibromo-3-Chloropropane	ND		1.0
1,2-Dibromoethane	ND		1.0
1,2-Dichlorobenzene	ND	05	1.0
1,2-Dichloroethane	ND	05	1.0
1,2-Dichloropropane	ND		1.0
1,3-Dichlorobenzene	ND		1.0
1,4-Dichlorobenzene	ND		1.0
2-Butanone (MEK)	ND		10
2-Hexanone	ND		5.0
4-Methyl-2-pentanone (MIBK)	ND		5.0
Acetone	ND		10
Benzene	ND		1.0
Bromodichloromethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
Carbon disulfide	ND		1.0
Carbon tetrachloride	ND		1.0
Chlorobenzene	ND		1.0
Chloroethane	ND		1.0
Chloroform	ND		1.0
Chloromethane	ND		1.0
cis-1,2-Dichloroethene	ND	05	1.0
cis-1,3-Dichloropropene	ND		1.0
Cyclohexane	ND		1.0
Dibromochloromethane	ND		1.0
Dichlorodifluoromethane	ND		1.0
Ethylbenzene	ND	05	1.0
Isopropylbenzene	ND		1.0
Methyl acetate	ND		1.0
Methyl tert-butyl ether	ND		1.0
Methylcyclohexane	ND		1.0
Methylene Chloride	ND		1.0
Styrene	ND		1.0
Tetrachloroethene	ND		1.0
Toluene	ND		1.0
trans-1,2-Dichloroethene	ND		1.0
trans-1,3-Dichloropropene	ND		1.0
Trichloroethene	ND	05	1.0
Trichlorofluoromethane	ND		1.0

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: GWP-7-38-40

Lab Sample ID: 480-7684-4

Date Sampled: 07/25/2011 1010

Client Matrix: Water

Date Received: 07/26/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-24985	Instrument ID:	HP5973G
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	G4500.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/26/2011 1742			Final Weight/Volume:	5 mL
Prep Date:	07/26/2011 1742				

Analyte	Result (ug/L)	Qualifier	RL
Vinyl chloride	ND		1.0
Xylenes, Total	ND		2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	120		66 - 137
4-Bromofluorobenzene (Surr)	103		73 - 120
Toluene-d8 (Surr)	109		71 - 126

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: GWP-7-38-40

Lab Sample ID: 480-7684-4

Date Sampled: 07/25/2011 1010

Client Matrix: Water

Date Received: 07/26/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 480-24985

Instrument ID: HP5973G

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: G4500.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 07/26/2011 1742

Final Weight/Volume: 5 mL

Prep Date: 07/26/2011 1742

Tentatively Identified Compounds

Number TIC's Found: 2

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
115-11-7	1-Propene, 2-methyl-	1.59	2.9	T J N
	Unknown	4.54	2.6	T J

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: GWP-7-48-60

Lab Sample ID: 480-7684-5

Date Sampled: 07/25/2011 1045

Client Matrix: Water

Date Received: 07/26/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-24985	Instrument ID:	HP5973G
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	G4503.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/26/2011 1852			Final Weight/Volume:	5 mL
Prep Date:	07/26/2011 1852				

Analyte	Result (ug/L)	Qualifier	RL
1,1,1-Trichloroethane	ND		1.0
1,1,2,2-Tetrachloroethane	ND		1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0
1,1,2-Trichloroethane	ND		1.0
1,1-Dichloroethane	ND		1.0
1,1-Dichloroethene	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,2-Dibromo-3-Chloropropane	ND		1.0
1,2-Dibromoethane	ND		1.0
1,2-Dichlorobenzene	ND		1.0
1,2-Dichloroethane	ND		1.0
1,2-Dichloropropane	ND		1.0
1,3-Dichlorobenzene	ND		1.0
1,4-Dichlorobenzene	ND		1.0
2-Butanone (MEK)	ND		10
2-Hexanone	ND		5.0
4-Methyl-2-pentanone (MIBK)	ND		5.0
Acetone	ND		10
Benzene	ND		1.0
Bromodichloromethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
Carbon disulfide	ND		1.0
Carbon tetrachloride	ND		1.0
Chlorobenzene	ND		1.0
Chloroethane	ND		1.0
Chloroform	ND		1.0
Chloromethane	ND		1.0
cis-1,2-Dichloroethene	ND		1.0
cis-1,3-Dichloropropene	ND		1.0
Cyclohexane	ND		1.0
Dibromochloromethane	ND		1.0
Dichlorodifluoromethane	ND		1.0
Ethylbenzene	ND		1.0
Isopropylbenzene	ND		1.0
Methyl acetate	ND		1.0
Methyl tert-butyl ether	ND		1.0
Methylcyclohexane	ND		1.0
Methylene Chloride	ND		1.0
Styrene	ND		1.0
Tetrachloroethene	ND		1.0
Toluene	ND		1.0
trans-1,2-Dichloroethene	ND		1.0
trans-1,3-Dichloropropene	ND		1.0
Trichloroethene	ND		1.0
Trichlorofluoromethane	ND		1.0

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: GWP-7-48-50

Lab Sample ID: 480-7684-5

Client Matrix: Water

Date Sampled: 07/25/2011 1045

Date Received: 07/26/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 480-24985

Instrument ID: HP5973G

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: G4503.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 07/26/2011 1852

Final Weight/Volume: 5 mL

Prep Date: 07/26/2011 1852

Analyte	Result (ug/L)	Qualifier	RL
Vinyl chloride	ND		1.0
Xylenes, Total	ND		2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	121		66 - 137
4-Bromofluorobenzene (Surr)	102		73 - 120
Toluene-d8 (Surr)	110		71 - 126

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: GWP-7-48-50

Lab Sample ID: 480-7684-5

Client Matrix: Water

Date Sampled: 07/25/2011 1045

Date Received: 07/26/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 480-24985

Instrument ID: HP5973G

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: G4503.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 07/26/2011 1852

Final Weight/Volume: 5 mL

Prep Date: 07/26/2011 1852

Tentatively Identified Compounds

Number TIC's Found: 0

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
	Tentatively Identified Compound		None	

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: GWP-7-58-60

Lab Sample ID: 480-7684-6

Date Sampled: 07/25/2011 1125

Client Matrix: Water

Date Received: 07/26/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-24985	Instrument ID:	HP5973G
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	G4504.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/26/2011 1915			Final Weight/Volume:	5 mL
Prep Date:	07/26/2011 1915				

Analyte	Result (ug/L)	Qualifier	RL
1,1,1-Trichloroethane	ND		1.0
1,1,2,2-Tetrachloroethane	ND		1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0
1,1,2-Trichloroethane	ND		1.0
1,1-Dichloroethane	ND		1.0
1,1-Dichloroethene	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,2-Dibromo-3-Chloropropane	ND		1.0
1,2-Dibromoethane	ND		1.0
1,2-Dichlorobenzene	ND		1.0
1,2-Dichloroethane	ND		1.0
1,2-Dichloropropane	ND		1.0
1,3-Dichlorobenzene	ND		1.0
1,4-Dichlorobenzene	ND		1.0
2-Butanone (MEK)	ND		10
2-Hexanone	ND		5.0
4-Methyl-2-pentanone (MIBK)	ND		5.0
Acetone	ND		10
Benzene	ND		1.0
Bromodichloromethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
Carbon disulfide	ND		1.0
Carbon tetrachloride	ND		1.0
Chlorobenzene	ND		1.0
Chloroethane	ND		1.0
Chloroform	ND		1.0
Chloromethane	ND		1.0
cis-1,2-Dichloroethene	ND		1.0
cis-1,3-Dichloropropene	ND		1.0
Cyclohexane	ND		1.0
Dibromochloromethane	ND		1.0
Dichlorodifluoromethane	ND		1.0
Ethylbenzene	ND		1.0
Isopropylbenzene	ND		1.0
Methyl acetate	ND		1.0
Methyl tert-butyl ether	ND		1.0
Methylcyclohexane	ND		1.0
Methylene Chloride	ND		1.0
Styrene	ND		1.0
Tetrachloroethene	ND		1.0
Toluene	ND		1.0
trans-1,2-Dichloroethene	ND		1.0
trans-1,3-Dichloropropene	ND		1.0
Trichloroethene	ND		1.0
Trichlorofluoromethane	ND		1.0

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: GWP-7-58-60

Lab Sample ID: 480-7684-6

Date Sampled: 07/25/2011 1125

Client Matrix: Water

Date Received: 07/26/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-24985	Instrument ID:	HP5973G
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	G4504.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/26/2011 1915			Final Weight/Volume:	5 mL
Prep Date:	07/26/2011 1915				

Analyte	Result (ug/L)	Qualifier	RL
Vinyl chloride	ND		1.0
Xylenes, Total	ND		2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	120		66 - 137
4-Bromofluorobenzene (Surr)	103		73 - 120
Toluene-d8 (Surr)	111		71 - 126

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: GWP-7-68-60

Lab Sample ID: 480-7684-6

Date Sampled: 07/25/2011 1125

Client Matrix: Water

Date Received: 07/26/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 480-24985

Instrument ID: HP5973G

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: G4504.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 07/26/2011 1915

Final Weight/Volume: 5 mL

Prep Date: 07/26/2011 1915

Tentatively Identified Compounds

Number TIC's Found: 0

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
	Tentatively Identified Compound		None	

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: FB-072611

Lab Sample ID: 480-7684-7FB

Date Sampled: 07/25/2011 1200

Client Matrix: Water

Date Received: 07/26/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-24985	Instrument ID:	HP5973G
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	G4505.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/26/2011 1938			Final Weight/Volume:	5 mL
Prep Date:	07/26/2011 1938				

Analyte	Result (ug/L)	Qualifier	RL
1,1,1-Trichloroethane	ND		1.0
1,1,2,2-Tetrachloroethane	ND		1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0
1,1,2-Trichloroethane	ND		1.0
1,1-Dichloroethane	ND		1.0
1,1-Dichloroethene	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,2-Dibromo-3-Chloropropane	ND		1.0
1,2-Dibromoethane	ND		1.0
1,2-Dichlorobenzene	ND		1.0
1,2-Dichloroethane	ND		1.0
1,2-Dichloropropane	ND		1.0
1,3-Dichlorobenzene	ND		1.0
1,4-Dichlorobenzene	ND		1.0
2-Butanone (MEK)	ND		10
2-Hexanone	ND		5.0
4-Methyl-2-pentanone (MIBK)	ND		5.0
Acetone	ND		10
Benzene	ND		1.0
Bromodichloromethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
Carbon disulfide	ND		1.0
Carbon tetrachloride	ND		1.0
Chlorobenzene	ND		1.0
Chloroethane	ND		1.0
Chloroform	ND		1.0
Chloromethane	ND		1.0
cis-1,2-Dichloroethene	ND		1.0
cis-1,3-Dichloropropene	ND		1.0
Cyclohexane	ND		1.0
Dibromochloromethane	ND		1.0
Dichlorodifluoromethane	ND		1.0
Ethylbenzene	ND		1.0
Isopropylbenzene	ND		1.0
Methyl acetate	ND		1.0
Methyl tert-butyl ether	ND		1.0
Methylcyclohexane	ND		1.0
Methylene Chloride	ND		1.0
Styrene	ND		1.0
Tetrachloroethene	ND		1.0
Toluene	ND		1.0
trans-1,2-Dichloroethene	ND		1.0
trans-1,3-Dichloropropene	ND		1.0
Trichloroethene	ND		1.0
Trichlorofluoromethane	ND		1.0

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: FB-072611

Lab Sample ID: 480-7684-7FB

Date Sampled: 07/25/2011 1200

Client Matrix: Water

Date Received: 07/26/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-24985	Instrument ID:	HP5973G
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	G4505.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/26/2011 1938			Final Weight/Volume:	5 mL
Prep Date:	07/26/2011 1938				

Analyte	Result (ug/L)	Qualifier	RL
Vinyl chloride	ND		1.0
Xylenes, Total	ND		2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	122		66 - 137
4-Bromofluorobenzene (Surr)	102		73 - 120
Toluene-d8 (Surr)	112		71 - 126

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: FB-072611

Lab Sample ID: 480-7684-7FB

Client Matrix: Water

Date Sampled: 07/25/2011 1200

Date Received: 07/26/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 480-24985

Instrument ID: HP5973G

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: G4505.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 07/26/2011 1938

Final Weight/Volume: 5 mL

Prep Date: 07/26/2011 1938

Tentatively Identified Compounds

Number TIC's Found: 0

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
	Tentatively Identified Compound		None	

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-7684-8TB

Client Matrix: Water

Date Sampled: 07/25/2011 0000

Date Received: 07/26/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-24985	Instrument ID:	HP5973G
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	G4506.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/26/2011 2001			Final Weight/Volume:	5 mL
Prep Date:	07/26/2011 2001				

Analyte	Result (ug/L)	Qualifier	RL
1,1,1-Trichloroethane	ND		1.0
1,1,2,2-Tetrachloroethane	ND		1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0
1,1,2-Trichloroethane	ND		1.0
1,1-Dichloroethane	ND		1.0
1,1-Dichloroethene	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,2-Dibromo-3-Chloropropane	ND		1.0
1,2-Dibromoethane	ND		1.0
1,2-Dichlorobenzene	ND		1.0
1,2-Dichloroethane	ND		1.0
1,2-Dichloropropane	ND		1.0
1,3-Dichlorobenzene	ND		1.0
1,4-Dichlorobenzene	ND		1.0
2-Butanone (MEK)	ND		10
2-Hexanone	ND		5.0
4-Methyl-2-pentanone (MIBK)	ND		5.0
Acetone	ND		10
Benzene	ND		1.0
Bromodichloromethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
Carbon disulfide	ND		1.0
Carbon tetrachloride	ND		1.0
Chlorobenzene	ND		1.0
Chloroethane	ND		1.0
Chloroform	ND		1.0
Chloromethane	ND		1.0
cis-1,2-Dichloroethene	ND		1.0
cis-1,3-Dichloropropene	ND		1.0
Cyclohexane	ND		1.0
Dibromochloromethane	ND		1.0
Dichlorodifluoromethane	ND		1.0
Ethylbenzene	ND		1.0
Isopropylbenzene	ND		1.0
Methyl acetate	ND		1.0
Methyl tert-butyl ether	ND		1.0
Methycyclohexane	ND		1.0
Methylene Chloride	ND		1.0
Styrene	ND		1.0
Tetrachloroethene	ND		1.0
Toluene	ND		1.0
trans-1,2-Dichloroethene	ND		1.0
trans-1,3-Dichloropropene	ND		1.0
Trichloroethene	ND		1.0
Trichlorofluoromethane	ND		1.0

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-7684-8TB

Date Sampled: 07/25/2011 0000

Client Matrix: Water

Date Received: 07/26/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-24985	Instrument ID:	HP5973G
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	G4506.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/26/2011 2001			Final Weight/Volume:	5 mL
Prep Date:	07/26/2011 2001				

Analyte	Result (ug/L)	Qualifier	RL
Vinyl chloride	ND		1.0
Xylenes, Total	ND		2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	122		66 - 137
4-Bromofluorobenzene (Surr)	103		73 - 120
Toluene-d8 (Surr)	112		71 - 126

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-7684-8TB

Client Matrix: Water

Date Sampled: 07/25/2011 0000

Date Received: 07/26/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 480-24985

Instrument ID: HP5973G

Prep Method: 5030B

Prep Batch: N/A

Lab File ID: G4506.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 07/26/2011 2001

Final Weight/Volume: 5 mL

Prep Date: 07/26/2011 2001

Tentatively Identified Compounds

Number TIC's Found: 0

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
	Tentatively Identified Compound		None	

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: FB-072211

Lab Sample ID: 480-7633-6

Client Matrix: Water

Date Sampled: 07/22/2011 0720

Date Received: 07/23/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	480-25325	Instrument ID:	HP5973V
Prep Method:	3510C	Prep Batch:	480-25216	Lab File ID:	V3308.D
Dilution:	1.0			Initial Weight/Volume:	1010 mL
Analysis Date:	07/28/2011 1826			Final Weight/Volume:	1 mL
Prep Date:	07/27/2011 1441			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	RL
2,4,5-Trichlorophenol	ND		5.0
2,4,6-Trichlorophenol	ND		5.0
2,4-Dichlorophenol	ND		5.0
2,4-Dimethylphenol	ND		5.0
2,4-Dinitrophenol	ND		9.9
2,4-Dinitrotoluene	ND		5.0
2,6-Dinitrotoluene	ND		5.0
2-Chloronaphthalene	ND		5.0
2-Chlorophenol	ND		5.0
2-Methylnaphthalene	ND		5.0
2-Methylphenol	ND		5.0
2-Nitroaniline	ND		9.9
2-Nitrophenol	ND		5.0
3,3'-Dichlorobenzidine	ND		5.0
3-Nitroaniline	ND		9.9
4,6-Dinitro-2-methylphenol	ND		9.9
4-Bromophenyl phenyl ether	ND		5.0
4-Chloro-3-methylphenol	ND		5.0
4-Chloroaniline	ND		5.0
4-Chlorophenyl phenyl ether	ND		5.0
4-Methylphenol	ND		9.9
4-Nitroaniline	ND		9.9
4-Nitrophenol	ND		9.9
Acenaphthene	ND		5.0
Acenaphthylene	ND		5.0
Acetophenone	ND		5.0
Anthracene	ND		5.0
Atrazine	ND		5.0
Benzaldehyde	ND		5.0
Benzo(a)anthracene	ND		5.0
Benzo(a)pyrene	ND		5.0
Benzo(b)fluoranthene	ND		5.0
Benzo(g,h,i)perylene	ND		5.0
Benzo(k)fluoranthene	ND		5.0
Biphenyl	ND		5.0
bis (2-chloroisopropyl) ether	ND		5.0
Bis(2-chloroethoxy)methane	ND		5.0
Bis(2-chloroethyl)ether	ND		5.0
Bis(2-ethylhexyl) phthalate	ND		5.0
Butyl benzyl phthalate	ND		5.0
Caprolactam	ND		5.0
Carbazole	ND		5.0
Chrysene	ND		5.0
Dibenz(a,h)anthracene	ND		5.0
Dibenzofuran	ND		9.9
Diethyl phthalate	ND		5.0

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: FB-072211

Lab Sample ID: 480-7633-6

Date Sampled: 07/22/2011 0720

Client Matrix: Water

Date Received: 07/23/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	480-25325	Instrument ID:	HP5973V
Prep Method:	3510C	Prep Batch:	480-25216	Lab File ID:	V3308.D
Dilution:	1.0			Initial Weight/Volume:	1010 mL
Analysis Date:	07/28/2011 1826			Final Weight/Volume:	1 mL
Prep Date:	07/27/2011 1441			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	RL
Dimethyl phthalate	ND		5.0
Di-n-butyl phthalate	ND		5.0
Di-n-octyl phthalate	ND		5.0
Fluoranthene	ND		5.0
Fluorene	ND		5.0
Hexachlorobenzene	ND		5.0
Hexachlorobutadiene	ND		5.0
Hexachlorocyclopentadiene	ND		5.0
Hexachloroethane	ND		5.0
Indeno(1,2,3-cd)pyrene	ND		5.0
Isophorone	ND		5.0
Naphthalene	ND		5.0
Nitrobenzene	ND		5.0
N-Nitrosodi-n-propylamine	ND		5.0
N-Nitrosodiphenylamine	ND		5.0
Pentachlorophenol	ND		9.9
Phenanthrene	ND		5.0
Phenol	ND		5.0
Pyrene	ND		5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4,6-Tribromophenol	87		52 - 132
2-Fluorobiphenyl	93		48 - 120
2-Fluorophenol	49		20 - 120
Nitrobenzene-d5	89		46 - 120
Phenol-d5	29		16 - 120
p-Terphenyl-d14	86		24 - 136

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: FB-072211

Lab Sample ID: 480-7633-6

Date Sampled: 07/22/2011 0720

Client Matrix: Water

Date Received: 07/23/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	480-25325	Instrument ID:	HP5973V
Prep Method:	3510C	Prep Batch:	480-25216	Lab File ID:	V3308.D
Dilution:	1.0			Initial Weight/Volume:	1010 mL
Analysis Date:	07/28/2011 1826			Final Weight/Volume:	1 mL
Prep Date:	07/27/2011 1441			Injection Volume:	1 uL

Tentatively Identified Compounds

Number TIC's Found: 0

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
	Tentatively Identified Compound		None	

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: GWP-6-8-10

Lab Sample ID: 480-7633-7

Date Sampled: 07/22/2011 0845

Client Matrix: Water

Date Received: 07/23/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	480-25325	Instrument ID:	HP5973V
Prep Method:	3510C	Prep Batch:	480-25216	Lab File ID:	V3309.D
Dilution:	1.0			Initial Weight/Volume:	950 mL
Analysis Date:	07/28/2011 1850			Final Weight/Volume:	1 mL
Prep Date:	07/27/2011 1441			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	RL
2,4,5-Trichlorophenol	ND		5.3
2,4,6-Trichlorophenol	ND		5.3
2,4-Dichlorophenol	ND		5.3
2,4-Dimethylphenol	ND		5.3
2,4-Dinitrophenol	ND		11
2,4-Dinitrotoluene	ND		5.3
2,6-Dinitrotoluene	ND		5.3
2-Chloronaphthalene	ND		5.3
2-Chlorophenol	ND		5.3
2-Methylnaphthalene	ND		5.3
2-Methylphenol	ND		5.3
2-Nitroaniline	ND		11
2-Nitrophenol	ND		5.3
3,3'-Dichlorobenzidine	ND		5.3
3-Nitroaniline	ND		11
4,6-Dinitro-2-methylphenol	ND		11
4-Bromophenyl phenyl ether	ND		5.3
4-Chloro-3-methylphenol	ND		5.3
4-Chloroaniline	ND		5.3
4-Chlorophenyl phenyl ether	ND		5.3
4-Methylphenol	ND		11
4-Nitroaniline	ND		11
4-Nitrophenol	ND		11
Acenaphthene	ND		5.3
Acenaphthylene	ND		5.3
Acetophenone	ND		5.3
Anthracene	ND		5.3
Atrazine	ND		5.3
Benzaldehyde	ND		5.3
Benzo(a)anthracene	ND		5.3
Benzo(a)pyrene	ND		5.3
Benzo(b)fluoranthene	ND		5.3
Benzo(g,h,i)perylene	ND		5.3
Benzo(k)fluoranthene	ND		5.3
Biphenyl	ND		5.3
bis (2-chloroisopropyl) ether	ND		5.3
Bis(2-chloroethoxy)methane	ND		5.3
Bis(2-chloroethyl)ether	ND		5.3
Bis(2-ethylhexyl) phthalate	6.0		5.3
Butyl benzyl phthalate	ND		5.3
Caprolactam	ND		5.3
Carbazole	ND		5.3
Chrysene	ND		5.3
Dibenz(a,h)anthracene	ND		5.3
Dibenzofuran	ND		11
Diethyl phthalate	ND		5.3

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: GWP-6-8-10

Lab Sample ID: 480-7633-7

Client Matrix: Water

Date Sampled: 07/22/2011 0845

Date Received: 07/23/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	480-25325	Instrument ID:	HP5973V
Prep Method:	3510C	Prep Batch:	480-25216	Lab File ID:	V3309.D
Dilution:	1.0			Initial Weight/Volume:	950 mL
Analysis Date:	07/28/2011 1850			Final Weight/Volume:	1 mL
Prep Date:	07/27/2011 1441			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	RL
Dimethyl phthalate	ND		5.3
Di-n-butyl phthalate	ND		5.3
Di-n-octyl phthalate	ND		5.3
Fluoranthene	ND		5.3
Fluorene	ND		5.3
Hexachlorobenzene	ND		5.3
Hexachlorobutadiene	ND		5.3
Hexachlorocyclopentadiene	ND		5.3
Hexachloroethane	ND		5.3
Indeno(1,2,3-cd)pyrene	ND		5.3
Isophorone	ND		5.3
Naphthalene	ND		5.3
Nitrobenzene	ND		5.3
N-Nitrosodi-n-propylamine	ND		5.3
N-Nitrosodiphenylamine	ND		5.3
Pentachlorophenol	ND		11
Phenanthrene	ND		5.3
Phenol	ND		5.3
Pyrene	ND		5.3

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4,6-Tribromophenol	93		52 - 132
2-Fluorobiphenyl	84		48 - 120
2-Fluorophenol	50		20 - 120
Nitrobenzene-d5	81		46 - 120
Phenol-d5	30		16 - 120
p-Terphenyl-d14	87		24 - 136

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: GWP-6-8-10

Lab Sample ID: 480-7633-7

Client Matrix: Water

Date Sampled: 07/22/2011 0845

Date Received: 07/23/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method: 8270C

Analysis Batch: 480-25325

Instrument ID: HP5973V

Prep Method: 3510C

Prep Batch: 480-25216

Lab File ID: V3309.D

Dilution: 1.0

Initial Weight/Volume: 950 mL

Analysis Date: 07/28/2011 1850

Final Weight/Volume: 1 mL

Prep Date: 07/27/2011 1441

Injection Volume: 1 uL

Tentatively Identified Compounds

Number TIC's Found: 5

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
646-13-9	Unknown	12.73	11	T J
	Octadecanoic acid, 2-methylpropyl ester	13.36	11	T J N
	Unknown	13.86	4.5	T J
	Unknown	14.57	4.9	T J
	Unknown	15.36	4.9	T J

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: DUP-072211

Lab Sample ID: 480-7633-8

Date Sampled: 07/22/2011 0000

Client Matrix: Water

Date Received: 07/23/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	480-25325	Instrument ID:	HP5973V
Prep Method:	3510C	Prep Batch:	480-25216	Lab File ID:	V3310.D
Dilution:	1.0			Initial Weight/Volume:	820 mL
Analysis Date:	07/28/2011 1914			Final Weight/Volume:	1 mL
Prep Date:	07/27/2011 1441			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	RL
2,4,5-Trichlorophenol	ND		6.1
2,4,6-Trichlorophenol	ND		6.1
2,4-Dichlorophenol	ND		6.1
2,4-Dimethylphenol	ND		6.1
2,4-Dinitrophenol	ND		12
2,4-Dinitrotoluene	ND		6.1
2,6-Dinitrotoluene	ND		6.1
2-Chloronaphthalene	ND		6.1
2-Chlorophenol	ND		6.1
2-Methylnaphthalene	ND		6.1
2-Methylphenol	ND		6.1
2-Nitroaniline	ND		12
2-Nitrophenol	ND		6.1
3,3'-Dichlorobenzidine	ND		6.1
3-Nitroaniline	ND		12
4,6-Dinitro-2-methylphenol	ND		12
4-Bromophenyl phenyl ether	ND		6.1
4-Chloro-3-methylphenol	ND		6.1
4-Chloroaniline	ND		6.1
4-Chlorophenyl phenyl ether	ND		6.1
4-Methylphenol	ND		12
4-Nitroaniline	ND		12
4-Nitrophenol	ND		12
Acenaphthene	ND		6.1
Acenaphthylene	ND		6.1
Acetophenone	ND		6.1
Anthracene	ND		6.1
Atrazine	ND		6.1
Benzaldehyde	ND		6.1
Benzo(a)anthracene	ND		6.1
Benzo(a)pyrene	ND		6.1
Benzo(b)fluoranthene	ND		6.1
Benzo(g,h,i)perylene	ND		6.1
Benzo(k)fluoranthene	ND		6.1
Biphenyl	ND		6.1
bis (2-chloroisopropyl) ether	ND		6.1
Bis(2-chloroethoxy)methane	ND		6.1
Bis(2-chloroethyl)ether	ND		6.1
Bis(2-ethylhexyl) phthalate	ND		6.1
Butyl benzyl phthalate	ND		6.1
Caprolactam	ND		6.1
Carbazole	ND		6.1
Chrysene	ND		6.1
Dibenz(a,h)anthracene	ND		6.1
Dibenzofuran	ND		12
Diethyl phthalate	ND		6.1

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: DUP-072211

Lab Sample ID: 480-7633-8

Date Sampled: 07/22/2011 0000

Client Matrix: Water

Date Received: 07/23/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	480-25325	Instrument ID:	HP5973V
Prep Method:	3510C	Prep Batch:	480-25216	Lab File ID:	V3310.D
Dilution:	1.0			Initial Weight/Volume:	820 mL
Analysis Date:	07/28/2011 1914			Final Weight/Volume:	1 mL
Prep Date:	07/27/2011 1441			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	RL
Dimethyl phthalate	ND		6.1
Di-n-butyl phthalate	ND		6.1
Di-n-octyl phthalate	ND		6.1
Fluoranthene	ND		6.1
Fluorene	ND		6.1
Hexachlorobenzene	ND		6.1
Hexachlorobutadiene	ND		6.1
Hexachlorocyclopentadiene	ND		6.1
Hexachloroethane	ND		6.1
Indeno(1,2,3-cd)pyrene	ND		6.1
Isophorone	ND		6.1
Naphthalene	ND		6.1
Nitrobenzene	ND		6.1
N-Nitrosodi-n-propylamine	ND		6.1
N-Nitrosodiphenylamine	ND		6.1
Pentachlorophenol	ND		12
Phenanthrene	ND		6.1
Phenol	ND		6.1
Pyrene	ND		6.1

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4,6-Tribromophenol	99		52 - 132
2-Fluorobiphenyl	91		48 - 120
2-Fluorophenol	56		20 - 120
Nitrobenzene-d5	84		46 - 120
Phenol-d5	34		16 - 120
p-Terphenyl-d14	98		24 - 136

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: DUP-072211

Lab Sample ID: 480-7633-8

Date Sampled: 07/22/2011 0000

Client Matrix: Water

Date Received: 07/23/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	480-25325	Instrument ID:	HP5973V
Prep Method:	3510C	Prep Batch:	480-25216	Lab File ID:	V3310.D
Dilution:	1.0			Initial Weight/Volume:	820 mL
Analysis Date:	07/28/2011 1914			Final Weight/Volume:	1 mL
Prep Date:	07/27/2011 1441			Injection Volume:	1 uL

Tentatively Identified Compounds

Number TIC's Found: 2

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
	Unknown	13.86	5.7	T J
	Unknown	16.40	6.1	T J

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: GWP-7-8-10

Lab Sample ID: 480-7684-1

Client Matrix: Water

Date Sampled: 07/25/2011 0840

Date Received: 07/26/2011 1000

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	480-25689	Instrument ID:	HP5973X
Prep Method:	3510C	Prep Batch:	480-25521	Lab File ID:	X6042.D
Dilution:	1.0			Initial Weight/Volume:	1040 mL
Analysis Date:	07/30/2011 1445			Final Weight/Volume:	1 mL
Prep Date:	07/29/2011 0817			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	RL
2,4,5-Trichlorophenol	ND		4.8
2,4,6-Trichlorophenol	ND		4.8
2,4-Dichlorophenol	ND		4.8
2,4-Dimethylphenol	ND		4.8
2,4-Dinitrophenol	ND JS	*	9.6
2,4-Dinitrotoluene	ND		4.8
2,6-Dinitrotoluene	ND		4.8
2-Chloronaphthalene	ND JS	*	4.8
2-Chlorophenol	ND		4.8
2-Methylnaphthalene	ND JS	*	4.8
2-Methylphenol	ND		4.8
2-Nitroaniline	ND		9.6
2-Nitrophenol	ND		4.8
3,3'-Dichlorobenzidine	ND	*	4.8
3-Nitroaniline	ND		9.6
4,6-Dinitro-2-methylphenol	ND	*	9.6
4-Bromophenyl phenyl ether	ND		4.8
4-Chloro-3-methylphenol	ND		4.8
4-Chloroaniline	ND		4.8
4-Chlorophenyl phenyl ether	ND		4.8
4-Methylphenol	ND		9.6
4-Nitroaniline	ND		9.6
4-Nitrophenol	ND		9.6
Acenaphthene	ND		4.8
Acenaphthylene	ND		4.8
Acetophenone	ND		4.8
Anthracene	ND		4.8
Atrazine	ND		4.8
Benzaldehyde	ND		4.8
Benzo(a)anthracene	ND	*	4.8
Benzo(a)pyrene	ND	*	4.8
Benzo(b)fluoranthene	ND	*	4.8
Benzo(g,h,i)perylene	ND	*	4.8
Benzo(k)fluoranthene	ND		4.8
Biphenyl	ND		4.8
bis (2-chloroisopropyl) ether	ND		4.8
Bis(2-chloroethoxy)methane	ND		4.8
Bis(2-chloroethyl)ether	ND		4.8
Bis(2-ethylhexyl) phthalate	ND	*	4.8
Butyl benzyl phthalate	ND	*	4.8
Caprolactam	ND JS	*	4.8
Carbazole	ND		4.8
Chrysene	ND		4.8
Dibenz(a,h)anthracene	ND	*	4.8
Dibenzofuran	ND		9.6
Diethyl phthalate	ND		4.8

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: GWP-7-8-10

Lab Sample ID: 480-7684-1

Client Matrix: Water

Date Sampled: 07/25/2011 0840

Date Received: 07/26/2011 1000

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	480-25689	Instrument ID:	HP5973X
Prep Method:	3510C	Prep Batch:	480-25521	Lab File ID:	X6042.D
Dilution:	1.0			Initial Weight/Volume:	1040 mL
Analysis Date:	07/30/2011 1445			Final Weight/Volume:	1 mL
Prep Date:	07/29/2011 0817			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	RL
Dimethyl phthalate	ND		4.8
Di-n-butyl phthalate	ND		4.8
Di-n-octyl phthalate	ND	*	4.8
Fluoranthene	ND		4.8
Fluorene	ND		4.8
Hexachlorobenzene	ND		4.8
Hexachlorobutadiene	ND		4.8
Hexachlorocyclopentadiene	ND		4.8
Hexachloroethane	ND		4.8
Indeno(1,2,3-cd)pyrene	ND	*	4.8
Isophorone	ND		4.8
Naphthalene	ND		4.8
Nitrobenzene	ND		4.8
N-Nitrosodi-n-propylamine	ND		4.8
N-Nitrosodiphenylamine	ND		4.8
Pentachlorophenol	ND		9.6
Phenanthrene	ND		4.8
Phenol	ND		4.8
Pyrene	ND		4.8

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4,6-Tribromophenol	109		52 - 132
2-Fluorobiphenyl	70		48 - 120
2-Fluorophenol	36		20 - 120
Nitrobenzene-d5	62		46 - 120
Phenol-d5	27		16 - 120
p-Terphenyl-d14	94		24 - 136

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: GWP-7-8-10

Lab Sample ID: 480-7684-1

Client Matrix: Water

Date Sampled: 07/25/2011 0840

Date Received: 07/26/2011 1000

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method: 8270C

Analysis Batch: 480-25689

Instrument ID: HP5973X

Prep Method: 3510C

Prep Batch: 480-25521

Lab File ID: X6042.D

Dilution: 1.0

Initial Weight/Volume: 1040 mL

Analysis Date: 07/30/2011 1445

Final Weight/Volume: 1 mL

Prep Date: 07/29/2011 0817

Injection Volume: 1 uL

Tentatively Identified Compounds

Number TIC's Found: 12

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
	Unknown	12.34	10	T J
	Unknown	12.84	11	T J
	Unknown	13.10	40	T J
	Unknown	13.14	7.5	T J
	Unknown	13.42	4.4	T J
	Unknown	13.60	19	T J
	Unknown	13.87	16	T J
	Unknown	14.13	5.5	T J
	Unknown	14.31	20	T J
	Unknown	14.85	6.1	T J
	Unknown	15.05	20	T J
	Unknown	15.99	19	T J

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: FB-072611

Lab Sample ID: 480-7684-7FB

Date Sampled: 07/25/2011 1200

Client Matrix: Water

Date Received: 07/26/2011 1000

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	480-25689	Instrument ID:	HP5973X
Prep Method:	3510C	Prep Batch:	480-25521	Lab File ID:	X6043.D
Dilution:	1.0			Initial Weight/Volume:	1030 mL
Analysis Date:	07/30/2011 1508			Final Weight/Volume:	1 mL
Prep Date:	07/29/2011 0817			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	RL
2,4,5-Trichlorophenol	ND		4.9
2,4,6-Trichlorophenol	ND		4.9
2,4-Dichlorophenol	ND		4.9
2,4-Dimethylphenol	ND		4.9
2,4-Dinitrophenol	ND	*	9.7
2,4-Dinitrotoluene	ND		4.9
2,6-Dinitrotoluene	ND		4.9
2-Chloronaphthalene	ND	*	4.9
2-Chlorophenol	ND		4.9
2-Methylnaphthalene	ND	*	4.9
2-Methylphenol	ND		4.9
2-Nitroaniline	ND		9.7
2-Nitrophenol	ND		4.9
3,3'-Dichlorobenzidine	ND	*	4.9
3-Nitroaniline	ND		9.7
4,6-Dinitro-2-methylphenol	ND	*	9.7
4-Bromophenyl phenyl ether	ND		4.9
4-Chloro-3-methylphenol	ND		4.9
4-Chloroaniline	ND		4.9
4-Chlorophenyl phenyl ether	ND		4.9
4-Methylphenol	ND		9.7
4-Nitroaniline	ND		9.7
4-Nitrophenol	ND		9.7
Acenaphthene	ND		4.9
Acenaphthylene	ND		4.9
Acetophenone	ND		4.9
Anthracene	ND		4.9
Atrazine	ND		4.9
Benzaldehyde	ND		4.9
Benzo(a)anthracene	ND	*	4.9
Benzo(a)pyrene	ND	*	4.9
Benzo(b)fluoranthene	ND	*	4.9
Benzo(g,h,i)perylene	ND	*	4.9
Benzo(k)fluoranthene	ND		4.9
Biphenyl	ND		4.9
bis (2-chloroisopropyl) ether	ND		4.9
Bis(2-chloroethoxy)methane	ND		4.9
Bis(2-chloroethyl)ether	ND		4.9
Bis(2-ethylhexyl) phthalate	ND	*	4.9
Butyl benzyl phthalate	ND	*	4.9
Caprolactam	ND	*	4.9
Carbazole	ND		4.9
Chrysene	ND		4.9
Dibenz(a,h)anthracene	ND	*	4.9
Dibenzofuran	ND		9.7
Diethyl phthalate	ND		4.9

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: FB-072611

Lab Sample ID: 480-7684-7FB

Date Sampled: 07/25/2011 1200

Client Matrix: Water

Date Received: 07/26/2011 1000

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	480-25689	Instrument ID:	HP5973X
Prep Method:	3510C	Prep Batch:	480-25521	Lab File ID:	X6043.D
Dilution:	1.0			Initial Weight/Volume:	1030 mL
Analysis Date:	07/30/2011 1508			Final Weight/Volume:	1 mL
Prep Date:	07/29/2011 0817			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	RL
Dimethyl phthalate	ND		4.9
Di-n-butyl phthalate	ND		4.9
Di-n-octyl phthalate	ND	*	4.9
Fluoranthene	ND		4.9
Fluorene	ND		4.9
Hexachlorobenzene	ND		4.9
Hexachlorobutadiene	ND		4.9
Hexachlorocyclopentadiene	ND		4.9
Hexachloroethane	ND		4.9
Indeno(1,2,3-cd)pyrene	ND	*	4.9
Isophorone	ND		4.9
Naphthalene	ND		4.9
Nitrobenzene	ND		4.9
N-Nitrosodi-n-propylamine	ND		4.9
N-Nitrosodiphenylamine	ND		4.9
Pentachlorophenol	ND		9.7
Phenanthrene	ND		4.9
Phenol	ND		4.9
Pyrene	ND		4.9

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4,6-Tribromophenol	114		52 - 132
2-Fluorobiphenyl	86		48 - 120
2-Fluorophenol	44		20 - 120
Nitrobenzene-d5	82		46 - 120
Phenol-d5	31		16 - 120
p-Terphenyl-d14	108		24 - 136

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: FB-072511

Lab Sample ID: 480-7684-7FB

Client Matrix: Water

Date Sampled: 07/25/2011 1200

Date Received: 07/26/2011 1000

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	480-25689	Instrument ID:	HP5973X
Prep Method:	3510C	Prep Batch:	480-25521	Lab File ID:	X6043.D
Dilution:	1.0			Initial Weight/Volume:	1030 mL
Analysis Date:	07/30/2011 1508			Final Weight/Volume:	1 mL
Prep Date:	07/29/2011 0817			Injection Volume:	1 uL

Tentatively Identified Compounds Number TIC's Found: 14

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
	Unknown	11.98	20	T J
	Unknown	12.34	12	T J
31158-91-5	Hexadecanoic acid, 1,1-dimethylethyl est	12.49	56	T J N
	Unknown	12.84	12	T J
	Unknown	13.10	55	T J
	Unknown	13.13	7.7	T J
	Unknown	13.42	5.3	T J
	Unknown	13.60	22	T J
	Unknown	13.87	20	T J
	Unknown	14.13	8.0	T J
	Unknown	14.31	22	T J
	Unknown	14.85	7.0	T J
	Unknown	15.05	23	T J
	Unknown	15.99	22	T J

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: GWP-9-20-22

Lab Sample ID: 480-7633-1

Client Matrix: Water

Date Sampled: 07/21/2011 1115

Date Received: 07/23/2011 0900

6010B Metals (ICP)

Analysis Method: 6010B
Prep Method: 3005A
Dilution: 1.0
Analysis Date: 07/26/2011 1740
Prep Date: 07/26/2011 0930

Analysis Batch: 480-25149
Prep Batch: 480-24886

Instrument ID: ICAP1
Lab File ID: I1072611A-5.asc
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	RL
Aluminum	57.9		0.20
Antimony	ND		0.020
Arsenic	0.044		0.010
Barium	0.24		0.0020
Beryllium	0.0034		0.0020
Cadmium	ND		0.0010
Calcium	61.3		0.50
Chromium	0.49		0.0040
Cobalt	0.061		0.0040
Copper	0.15		0.010
Iron	121		0.050
Lead	0.089		0.0050
Magnesium	10.9		0.20
Manganese	5.7		0.0030
Nickel	0.29		0.010
Potassium	13.3		0.50
Selenium	ND		0.015
Silver	ND		0.0030
Sodium	28.8		1.0
Thallium	ND		0.020
Vanadium	0.15		0.0050
Zinc	0.23		0.010

7470A Mercury (CVAA)

Analysis Method: 7470A
Prep Method: 7470A
Dilution: 1.0
Analysis Date: 07/25/2011 1845
Prep Date: 07/25/2011 1400

Analysis Batch: 480-24989
Prep Batch: 480-24842

Instrument ID: LEEMAN2
Lab File ID: H07251W1.PRN
Initial Weight/Volume: 30 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	RL
Mercury	ND		0.00020

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: GWP-9-30-32

Lab Sample ID: 480-7633-2

Date Sampled: 07/21/2011 1144

Client Matrix: Water

Date Received: 07/23/2011 0900

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	480-25149	Instrument ID:	ICAP1
Prep Method:	3005A	Prep Batch:	480-24886	Lab File ID:	I1072611A-5.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	07/26/2011 1742			Final Weight/Volume:	50 mL
Prep Date:	07/26/2011 0930				

Analyte	Result (mg/L)	Qualifier	RL
Aluminum	27.4		0.20
Antimony	ND		0.020
Arsenic	0.012		0.010
Barium	0.23		0.0020
Beryllium	ND		0.0020
Cadmium	ND		0.0010
Calcium	21.6		0.50
Chromium	0.30		0.0040
Cobalt	0.027		0.0040
Copper	0.050		0.010
Iron	43.0		0.050
Lead	0.035		0.0050
Magnesium	6.1		0.20
Manganese	2.2		0.0030
Nickel	0.16		0.010
Potassium	13.5		0.50
Selenium	ND		0.015
Silver	ND		0.0030
Sodium	20.0		1.0
Thallium	ND		0.020
Vanadium	0.051		0.0050
Zinc	0.10		0.010

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-24989	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-24842	Lab File ID:	H07251W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/25/2011 1847			Final Weight/Volume:	50 mL
Prep Date:	07/25/2011 1400				

Analyte	Result (mg/L)	Qualifier	RL
Mercury	ND		0.00020

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: GWP-9-40-42

Lab Sample ID: 480-7633-3

Client Matrix: Water

Date Sampled: 07/21/2011 1325

Date Received: 07/23/2011 0900

6010B Metals (ICP)

Analysis Method: 6010B
Prep Method: 3005A
Dilution: 1.0
Analysis Date: 07/26/2011 1745
Prep Date: 07/26/2011 0930

Analysis Batch: 480-25149
Prep Batch: 480-24886

Instrument ID: ICAP1
Lab File ID: I1072611A-5.asc
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	RL
Aluminum	29.8		0.20
Antimony	ND		0.020
Arsenic	0.019		0.010
Barium	0.28		0.0020
Beryllium	ND		0.0020
Cadmium	ND		0.0010
Calcium	23.3		0.50
Chromium	0.37		0.0040
Cobalt	0.025		0.0040
Copper	0.10		0.010
Iron	81.6		0.050
Lead	0.046		0.0050
Magnesium	6.6		0.20
Manganese	2.6		0.0030
Nickel	0.13		0.010
Potassium	16.1		0.50
Selenium	ND		0.015
Silver	ND		0.0030
Sodium	17.4		1.0
Thallium	ND		0.020
Vanadium	0.074		0.0050
Zinc	0.28		0.010

7470A Mercury (CVAA)

Analysis Method: 7470A
Prep Method: 7470A
Dilution: 1.0
Analysis Date: 07/25/2011 1848
Prep Date: 07/25/2011 1400

Analysis Batch: 480-24989
Prep Batch: 480-24842

Instrument ID: LEEMAN2
Lab File ID: H07251W1.PRN
Initial Weight/Volume: 30 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	RL
Mercury	ND		0.00020

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: GWP-9-50-52

Lab Sample ID: 480-7633-4

Date Sampled: 07/21/2011 1408

Client Matrix: Water

Date Received: 07/23/2011 0900

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	480-25149	Instrument ID:	ICAP1
Prep Method:	3005A	Prep Batch:	480-24886	Lab File ID:	I1072611A-5.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	07/26/2011 1747			Final Weight/Volume:	50 mL
Prep Date:	07/26/2011 0930				

Analyte	Result (mg/L)	Qualifier	RL
Aluminum	14.0		0.20
Antimony	ND		0.020
Arsenic	0.010		0.010
Barium	0.16		0.0020
Beryllium	ND		0.0020
Cadmium	ND		0.0010
Calcium	15.8		0.50
Chromium	0.23		0.0040
Cobalt	0.017		0.0040
Copper	0.036		0.010
Iron	31.8		0.050
Lead	0.024		0.0050
Magnesium	4.1		0.20
Manganese	1.1		0.0030
Nickel	0.10		0.010
Potassium	8.5		0.50
Selenium	ND		0.015
Silver	ND		0.0030
Sodium	20.1		1.0
Thallium	ND		0.020
Vanadium	0.036		0.0050
Zinc	0.052		0.010

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-24989	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-24842	Lab File ID:	H07251W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/25/2011 1850			Final Weight/Volume:	50 mL
Prep Date:	07/25/2011 1400				

Analyte	Result (mg/L)	Qualifier	RL
Mercury	ND		0.00020

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: GWP-9-60-62

Lab Sample ID: 480-7633-5

Client Matrix: Water

Date Sampled: 07/21/2011 1445

Date Received: 07/23/2011 0900

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	480-25149	Instrument ID:	ICAP1
Prep Method:	3005A	Prep Batch:	480-24886	Lab File ID:	I1072611A-5.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	07/26/2011 1749			Final Weight/Volume:	50 mL
Prep Date:	07/26/2011 0930				

Analyte	Result (mg/L)	Qualifier	RL
Aluminum	29.2		0.20
Antimony	ND		0.020
Arsenic	0.017		0.010
Barium	0.26		0.0020
Beryllium	0.0020		0.0020
Cadmium	ND		0.0010
Calcium	16.8		0.50
Chromium	0.58		0.0040
Cobalt	0.027		0.0040
Copper	0.12		0.010
Iron	86.8		0.050
Lead	0.052		0.0050
Magnesium	6.0		0.20
Manganese	2.5		0.0030
Nickel	0.19		0.010
Potassium	10.5		0.50
Selenium	ND		0.015
Silver	ND		0.0030
Sodium	22.2		1.0
Thallium	ND		0.020
Vanadium	0.073		0.0050
Zinc	0.24		0.010

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-24989	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-24842	Lab File ID:	H07251W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/25/2011 1852			Final Weight/Volume:	50 mL
Prep Date:	07/25/2011 1400				

Analyte	Result (mg/L)	Qualifier	RL
Mercury	ND		0.00020

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: FB-072211

Lab Sample ID: 480-7633-6

Date Sampled: 07/22/2011 0720

Client Matrix: Water

Date Received: 07/23/2011 0900

6010B Metals (ICP)

Analysis Method: 6010B
Prep Method: 3005A
Dilution: 1.0
Analysis Date: 07/26/2011 1751
Prep Date: 07/26/2011 0930

Analysis Batch: 480-25149
Prep Batch: 480-24886

Instrument ID: ICAP1
Lab File ID: I1072611A-5.asc
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	RL
Aluminum	ND		0.20
Antimony	ND		0.020
Arsenic	ND		0.010
Barium	ND		0.0020
Beryllium	ND		0.0020
Cadmium	ND		0.0010
Calcium	0.60		0.50
Chromium	ND		0.0040
Cobalt	ND		0.0040
Copper	ND		0.010
Iron	ND		0.050
Lead	ND		0.0050
Magnesium	ND		0.20
Manganese	ND		0.0030
Nickel	ND		0.010
Potassium	ND		0.50
Selenium	ND		0.015
Silver	ND		0.0030
Sodium	ND		1.0
Thallium	ND		0.020
Vanadium	ND		0.0050
Zinc	ND		0.010

7470A Mercury (CVAA)

Analysis Method: 7470A
Prep Method: 7470A
Dilution: 1.0
Analysis Date: 07/25/2011 1853
Prep Date: 07/25/2011 1400

Analysis Batch: 480-24989
Prep Batch: 480-24842

Instrument ID: LEEMAN2
Lab File ID: H07251W1.PRN
Initial Weight/Volume: 30 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	RL
Mercury	ND		0.00020

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: GWP-6-8-10

Lab Sample ID: 480-7633-7

Date Sampled: 07/22/2011 0845

Client Matrix: Water

Date Received: 07/23/2011 0900

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	480-25149	Instrument ID:	ICAP1
Prep Method:	3005A	Prep Batch:	480-24886	Lab File ID:	I1072611A-5.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	07/26/2011 1753			Final Weight/Volume:	50 mL
Prep Date:	07/26/2011 0930				

Analyte	Result (mg/L)	Qualifier	RL
Aluminum	5.9		0.20
Antimony	ND		0.020
Arsenic	ND		0.010
Barium	0.028		0.0020
Beryllium	ND		0.0020
Cadmium	ND		0.0010
Calcium	28.1		0.50
Chromium	0.15		0.0040
Cobalt	ND		0.0040
Copper	0.020		0.010
Iron	7.0		0.050
Lead	0.0086		0.0050
Magnesium	2.7		0.20
Manganese	0.086		0.0030
Nickel	0.073		0.010
Potassium	3.1		0.50
Selenium	ND		0.015
Silver	ND		0.0030
Sodium	6.1		1.0
Thallium	ND		0.020
Vanadium	0.015		0.0050
Zinc	0.054		0.010

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-24989	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-24842	Lab File ID:	H07251W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/25/2011 1855			Final Weight/Volume:	50 mL
Prep Date:	07/25/2011 1400				

Analyte	Result (mg/L)	Qualifier	RL
Mercury	ND		0.00020

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: GWP-6-18-20

Lab Sample ID: 480-7633-9

Date Sampled: 07/22/2011 0903

Client Matrix: Water

Date Received: 07/23/2011 0900

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	480-25149	Instrument ID:	ICAP1
Prep Method:	3005A	Prep Batch:	480-24886	Lab File ID:	I1072611A-5.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	07/26/2011 1800			Final Weight/Volume:	50 mL
Prep Date:	07/26/2011 0930				

Analyte	Result (mg/L)	Qualifier	RL
Aluminum	12.5		0.20
Antimony	ND		0.020
Arsenic	ND		0.010
Barium	0.078		0.0020
Beryllium	ND		0.0020
Cadmium	0.0012		0.0010
Calcium	56.5		0.50
Chromium	0.31		0.0040
Cobalt	0.0085		0.0040
Copper	0.039		0.010
Iron	19.9		0.050
Lead	0.027		0.0050
Magnesium	7.5		0.20
Manganese	0.45		0.0030
Nickel	0.16		0.010
Potassium	5.2		0.50
Selenium	ND		0.015
Silver	ND		0.0030
Sodium	35.7		1.0
Thallium	ND		0.020
Vanadium	0.027		0.0050
Zinc	0.20		0.010

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-24989	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-24842	Lab File ID:	H07251W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/25/2011 1857			Final Weight/Volume:	50 mL
Prep Date:	07/25/2011 1400				

Analyte	Result (mg/L)	Qualifier	RL
Mercury	ND		0.00020

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: GWP-6-28-30

Lab Sample ID: 480-7633-10

Date Sampled: 07/22/2011 0922

Client Matrix: Water

Date Received: 07/23/2011 0900

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	480-25149	Instrument ID:	ICAP1
Prep Method:	3005A	Prep Batch:	480-24886	Lab File ID:	I1072611A-5.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	07/26/2011 1802			Final Weight/Volume:	50 mL
Prep Date:	07/26/2011 0930				

Analyte	Result (mg/L)	Qualifier	RL
Aluminum	23.9		0.20
Antimony	ND		0.020
Arsenic	0.016		0.010
Barium	0.23		0.0020
Beryllium	ND		0.0020
Cadmium	0.0019		0.0010
Calcium	51.4		0.50
Chromium	0.53		0.0040
Cobalt	0.022		0.0040
Copper	0.093		0.010
Iron	59.7		0.050
Lead	0.053		0.0050
Magnesium	10.2		0.20
Manganese	1.4		0.0030
Nickel	0.21		0.010
Potassium	8.7		0.50
Selenium	ND		0.015
Silver	ND		0.0030
Sodium	28.0		1.0
Thallium	ND		0.020
Vanadium	0.060		0.0050
Zinc	0.38		0.010

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-24989	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-24842	Lab File ID:	H07251W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/25/2011 1902			Final Weight/Volume:	50 mL
Prep Date:	07/25/2011 1400				

Analyte	Result (mg/L)	Qualifier	RL
Mercury	ND		0.00020

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: GWP-6-38-40

Lab Sample ID: 480-7633-11

Date Sampled: 07/22/2011 1000

Client Matrix: Water

Date Received: 07/23/2011 0900

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	480-25149	Instrument ID:	ICAP1
Prep Method:	3005A	Prep Batch:	480-24886	Lab File ID:	I1072611A-5.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	07/26/2011 1804			Final Weight/Volume:	50 mL
Prep Date:	07/26/2011 0930				

Analyte	Result (mg/L)	Qualifier	RL
Aluminum	23.9		0.20
Antimony	ND		0.020
Arsenic	0.014		0.010
Barium	0.36		0.0020
Beryllium	ND		0.0020
Cadmium	ND		0.0010
Calcium	18.1		0.50
Chromium	0.44		0.0040
Cobalt	0.022		0.0040
Copper	0.090		0.010
Iron	61.3		0.050
Lead	0.043		0.0050
Magnesium	5.8		0.20
Manganese	1.6		0.0030
Nickel	0.17		0.010
Potassium	19.0		0.50
Selenium	ND		0.015
Silver	ND		0.0030
Sodium	26.2		1.0
Thallium	ND		0.020
Vanadium	0.055		0.0050
Zinc	0.16		0.010

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-24989	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-24842	Lab File ID:	H07251W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/25/2011 1903			Final Weight/Volume:	50 mL
Prep Date:	07/25/2011 1400				

Analyte	Result (mg/L)	Qualifier	RL
Mercury	ND		0.00020

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: GWP-6-48-50

Lab Sample ID: 480-7633-12

Client Matrix: Water

Date Sampled: 07/22/2011 1047

Date Received: 07/23/2011 0900

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	480-25149	Instrument ID:	ICAP1
Prep Method:	3005A	Prep Batch:	480-24886	Lab File ID:	I1072611A-5.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	07/26/2011 1806			Final Weight/Volume:	50 mL
Prep Date:	07/26/2011 0930				

Analyte	Result (mg/L)	Qualifier	RL
Aluminum	116		0.20
Antimony	ND		0.020
Arsenic	0.071		0.010
Barium	0.82		0.0020
Beryllium	0.0074		0.0020
Cadmium	0.0029		0.0010
Calcium	36.7		0.50
Chromium	2.3		0.0040
Cobalt	0.090		0.0040
Copper	0.52		0.010
Iron	353		0.050
Lead	0.16		0.0050
Magnesium	20.2		0.20
Manganese	5.3		0.0030
Nickel	0.59		0.010
Potassium	28.7		0.50
Selenium	ND		0.015
Silver	ND		0.0030
Sodium	28.1		1.0
Thallium	ND		0.020
Vanadium	0.30		0.0050
Zinc	1.0		0.010

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-24989	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-24842	Lab File ID:	H07251W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/25/2011 1905			Final Weight/Volume:	50 mL
Prep Date:	07/25/2011 1400				

Analyte	Result (mg/L)	Qualifier	RL
Mercury	ND		0.00020

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: GWP-6-58-60

Lab Sample ID: 480-7633-13

Client Matrix: Water

Date Sampled: 07/22/2011 1150

Date Received: 07/23/2011 0900

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	480-25149	Instrument ID:	ICAP1
Prep Method:	3005A	Prep Batch:	480-24886	Lab File ID:	I1072611A-5.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	07/26/2011 1809			Final Weight/Volume:	50 mL
Prep Date:	07/26/2011 0930				

Analyte	Result (mg/L)	Qualifier	RL
Aluminum	185		0.20
Antimony	ND		0.020
Arsenic	0.11	J	0.010
Barium	1.1	J	0.0020
Beryllium	0.012		0.0020
Cadmium	0.0041		0.0010
Calcium	29.9	J	0.50
Chromium	3.1		0.0040
Cobalt	0.14	J	0.0040
Copper	0.80		0.010
Lead	0.30		0.0050
Magnesium	31.7	J	0.20
Manganese	8.0	J	0.0030
Nickel	0.75	J	0.010
Potassium	29.1	J	0.50
Selenium	ND		0.015
Silver	ND	L	0.0030
Sodium	18.6	J	1.0
Thallium	ND		0.020
Vanadium	0.49	J	0.0050
Zinc	1.6		0.010

Analysis Method:	6010B	Analysis Batch:	480-25382	Instrument ID:	ICAP2
Prep Method:	3005A	Prep Batch:	480-24886	Lab File ID:	I2072811A-5.asc
Dilution:	5.0			Initial Weight/Volume:	50 mL
Analysis Date:	07/28/2011 1022			Final Weight/Volume:	50 mL
Prep Date:	07/26/2011 0930				

Analyte	Result (mg/L)	Qualifier	RL
Iron	610		0.25

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-24989	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-24842	Lab File ID:	H07251W1 PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/25/2011 1907			Final Weight/Volume:	50 mL
Prep Date:	07/25/2011 1400				

Analyte	Result (mg/L)	Qualifier	RL
Mercury	ND		0.00020

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: GWP-7-8-10

Lab Sample ID: 480-7684-1

Client Matrix: Water

Date Sampled: 07/25/2011 0840

Date Received: 07/26/2011 1000

6010B Metals (ICP)

Analysis Method: 6010B
Prep Method: 3005A
Dilution: 1.0
Analysis Date: 07/27/2011 1722
Prep Date: 07/27/2011 0900

Analysis Batch: 480-25312
Prep Batch: 480-25078

Instrument ID: ICAP1
Lab File ID: I1072711A-4.asc
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	RL
Aluminum	15.4		0.20
Antimony	ND		0.020
Arsenic	0.013		0.010
Barium	0.10		0.0020
Beryllium	ND		0.0020
Cadmium	ND		0.0010
Calcium	46.6		0.50
Chromium	0.16		0.0040
Cobalt	0.018		0.0040
Copper	0.046		0.010
Iron	30.8		0.050
Lead	0.025		0.0050
Magnesium	6.0		0.20
Manganese	0.97		0.0030
Nickel	0.085		0.010
Potassium	5.8		0.50
Selenium	ND		0.015
Silver	ND		0.0030
Sodium	23.0		1.0
Thallium	ND		0.020
Vanadium	0.036		0.0050
Zinc	0.043		0.010

7470A Mercury (CVAA)

Analysis Method: 7470A
Prep Method: 7470A
Dilution: 1.0
Analysis Date: 07/27/2011 1712
Prep Date: 07/27/2011 1315

Analysis Batch: 480-25360
Prep Batch: 480-25192

Instrument ID: LEEMAN2
Lab File ID: H07271W1.PRN
Initial Weight/Volume: 30 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	RL
Mercury	ND		0.00020

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: GWP-7-18-20

Lab Sample ID: 480-7684-2

Date Sampled: 07/25/2011 0910

Client Matrix: Water

Date Received: 07/26/2011 1000

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	480-25312	Instrument ID:	ICAP1
Prep Method:	3005A	Prep Batch:	480-25078	Lab File ID:	11072711A-4.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	07/27/2011 1724			Final Weight/Volume:	50 mL
Prep Date:	07/27/2011 0900				

Analyte	Result (mg/L)	Qualifier	RL
Aluminum	31.3		0.20
Antimony	ND		0.020
Arsenic	0.014		0.010
Barium	0.33		0.0020
Beryllium	ND		0.0020
Cadmium	ND		0.0010
Calcium	57.9		0.50
Chromium	0.37		0.0040
Cobalt	0.037		0.0040
Copper	0.13		0.010
Iron	75.7		0.050
Lead	0.089		0.0050
Magnesium	7.6		0.20
Manganese	3.5		0.0030
Nickel	0.14		0.010
Potassium	11.2		0.50
Selenium	ND		0.015
Silver	ND		0.0030
Sodium	39.9		1.0
Thallium	ND		0.020
Vanadium	0.062		0.0050
Zinc	0.20		0.010

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-25360	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-25192	Lab File ID:	H07271W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/27/2011 1713			Final Weight/Volume:	50 mL
Prep Date:	07/27/2011 1315				

Analyte	Result (mg/L)	Qualifier	RL
Mercury	ND		0.00020

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: GWP-7-28-30

Lab Sample ID: 480-7684-3

Client Matrix: Water

Date Sampled: 07/25/2011 0940

Date Received: 07/26/2011 1000

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	480-25312	Instrument ID:	ICAP1
Prep Method:	3005A	Prep Batch:	480-25078	Lab File ID:	I1072711A-4.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	07/27/2011 1726			Final Weight/Volume:	50 mL
Prep Date:	07/27/2011 0900				

Analyte	Result (mg/L)	Qualifier	RL
Aluminum	18.7		0.20
Antimony	ND		0.020
Arsenic	0.013		0.010
Barium	0.44		0.0020
Beryllium	0.0020		0.0020
Cadmium	ND		0.0010
Calcium	25.0		0.50
Chromium	1.0		0.0040
Cobalt	0.050		0.0040
Copper	0.28		0.010
Iron	134		0.050
Lead	0.10		0.0050
Magnesium	4.2		0.20
Manganese	4.0		0.0030
Nickel	0.29		0.010
Potassium	14.6		0.50
Selenium	ND		0.015
Silver	ND		0.0030
Sodium	25.7		1.0
Thallium	ND		0.020
Vanadium	0.041		0.0050
Zinc	0.36		0.010

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-25360	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-25192	Lab File ID:	H07271W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/27/2011 1715			Final Weight/Volume:	50 mL
Prep Date:	07/27/2011 1315				

Analyte	Result (mg/L)	Qualifier	RL
Mercury	ND		0.00020

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: GWP-7-38-40

Lab Sample ID: 480-7684-4

Client Matrix: Water

Date Sampled: 07/25/2011 1010

Date Received: 07/26/2011 1000

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	480-25312	Instrument ID:	ICAP1
Prep Method:	3005A	Prep Batch:	480-25078	Lab File ID:	11072711A-4.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	07/27/2011 1728			Final Weight/Volume:	50 mL
Prep Date:	07/27/2011 0900				

Analyte	Result (mg/L)	Qualifier	RL
Aluminum	16.5		0.20
Antimony	ND		0.020
Arsenic	0.010		0.010
Barium	0.37		0.0020
Beryllium	ND		0.0020
Cadmium	ND		0.0010
Calcium	25.0		0.50
Chromium	0.47		0.0040
Cobalt	0.029		0.0040
Copper	0.12		0.010
Iron	70.4		0.050
Lead	0.058		0.0050
Magnesium	4.3		0.20
Manganese	3.1		0.0030
Nickel	0.12		0.010
Potassium	17.9		0.50
Selenium	ND		0.015
Silver	ND		0.0030
Sodium	44.9		1.0
Thallium	ND		0.020
Vanadium	0.035		0.0050
Zinc	0.17		0.010

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-25360	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-25192	Lab File ID:	H07271W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/27/2011 1717			Final Weight/Volume:	50 mL
Prep Date:	07/27/2011 1315				

Analyte	Result (mg/L)	Qualifier	RL
Mercury	ND		0.00020

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: GWP-7-48-60

Lab Sample ID: 480-7684-5

Client Matrix: Water

Date Sampled: 07/25/2011 1045

Date Received: 07/26/2011 1000

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	480-25312	Instrument ID:	ICAP1
Prep Method:	3005A	Prep Batch:	480-25078	Lab File ID:	I1072711A-4.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	07/27/2011 1743			Final Weight/Volume:	50 mL
Prep Date:	07/27/2011 0900				

Analyte	Result (mg/L)	Qualifier	RL
Aluminum	18.2		0.20
Antimony	ND		0.020
Arsenic	0.012		0.010
Barium	0.48		0.0020
Beryllium	ND		0.0020
Cadmium	ND		0.0010
Calcium	24.4		0.50
Chromium	0.82		0.0040
Cobalt	0.043		0.0040
Copper	0.20		0.010
Iron	115		0.050
Lead	0.080		0.0050
Magnesium	4.8		0.20
Manganese	4.0		0.0030
Nickel	0.18		0.010
Potassium	20.7		0.50
Selenium	ND		0.015
Silver	ND		0.0030
Sodium	51.6		1.0
Thallium	ND		0.020
Vanadium	0.041		0.0050
Zinc	0.22		0.010

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-25360	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-25192	Lab File ID:	H07271W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/27/2011 1727			Final Weight/Volume:	50 mL
Prep Date:	07/27/2011 1315				

Analyte	Result (mg/L)	Qualifier	RL
Mercury	ND		0.00020

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: GWP-7-58-60

Lab Sample ID: 480-7684-6

Client Matrix: Water

Date Sampled: 07/25/2011 1125

Date Received: 07/26/2011 1000

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	480-25312	Instrument ID:	ICAP1
Prep Method:	3005A	Prep Batch:	480-25078	Lab File ID:	I1072711A-4.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	07/27/2011 1746			Final Weight/Volume:	50 mL
Prep Date:	07/27/2011 0900				

Analyte	Result (mg/L)	Qualifier	RL
Aluminum	23.6		0.20
Antimony	ND		0.020
Arsenic	0.012		0.010
Barium	0.45		0.0020
Beryllium	0.0022		0.0020
Cadmium	ND		0.0010
Calcium	33.7		0.50
Chromium	0.75		0.0040
Cobalt	0.049		0.0040
Copper	0.20		0.010
Iron	114		0.050
Lead	0.075		0.0050
Magnesium	6.4		0.20
Manganese	4.5		0.0030
Nickel	0.19		0.010
Potassium	14.6		0.50
Selenium	ND		0.015
Silver	ND		0.0030
Sodium	46.7		1.0
Thallium	ND		0.020
Vanadium	0.051		0.0050
Zinc	0.54		0.010

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-25360	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-25192	Lab File ID:	H07271W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/27/2011 1729			Final Weight/Volume:	50 mL
Prep Date:	07/27/2011 1315				

Analyte	Result (mg/L)	Qualifier	RL
Mercury	ND		0.00020

Analytical Data

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID: FB-072611

Lab Sample ID: 480-7684-7FB

Date Sampled: 07/25/2011 1200

Client Matrix: Water

Date Received: 07/26/2011 1000

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	480-25312	Instrument ID:	ICAP1
Prep Method:	3005A	Prep Batch:	480-25078	Lab File ID:	I1072711A-4.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	07/27/2011 1748			Final Weight/Volume:	50 mL
Prep Date:	07/27/2011 0900				

Analyte	Result (mg/L)	Qualifier	RL
Aluminum	ND		0.20
Antimony	ND		0.020
Arsenic	ND		0.010
Barium	ND		0.0020
Beryllium	ND		0.0020
Cadmium	ND		0.0010
Calcium	ND		0.50
Chromium	ND		0.0040
Cobalt	ND		0.0040
Copper	ND		0.010
Iron	ND		0.050
Lead	ND		0.0050
Magnesium	ND		0.20
Manganese	ND		0.0030
Nickel	ND		0.010
Potassium	ND		0.50
Selenium	ND		0.015
Silver	ND		0.0030
Sodium	ND		1.0
Thallium	ND		0.020
Vanadium	ND		0.0050
Zinc	ND		0.010

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-25360	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-25192	Lab File ID:	H07271W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	07/27/2011 1730			Final Weight/Volume:	50 mL
Prep Date:	07/27/2011 1315				

Analyte	Result (mg/L)	Qualifier	RL
Mercury	ND		0.00020