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

Prepared for General Electric Company Albany, New York January 2012

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

Prepared for General Electric Company 319 Great Oaks Blvd. Albany, New York

January 2012

Project Number: 141247.100.500



Associates 110 Commerce Drive Allendale, New Jersey 07401

Table of Contents

App	endi	ces	i	
List	of T	ables	ii	
List	st of Figures			
1.		Introduction	1-1	
	1.1	Purpose and Objectives	1-1	
2.		Background	2-1	
	2.1	Location		
	2.2	Site Vicinity and Characteristics	.2-1	
		2.2.1 Site Description	.2-1	
		2.2.2 Topography	.2-1	
		2.2.3 Geology and Hydrology	.2-2	
		2.2.4 Historic Site Operations		
		2.2.5 Regional Environmental Assessment	.2-5	
		2.2.6 Environmental History Overview	.2-7	
		2.2.7 Potential Off-Site Receptors	2-15	
		Site Characterization Investigation	.3-1	
	3.1	Vertical Profile Groundwater Sampling	.3-1	
	3.2	Soil Borings	.3-2	
	3.3	Exterior Soil Vapor	.3-2	
	3.4	Sub-Slab Soil Vapor	.3-3	
	3.5	Indoor Air	.3-3	
	3.6	Site Survey	.3-3	
		Site Characterization Results	.4-1	
	4.1	Site-Specific Geology and Hydrogeology	.4-1	
		4.1.1 Geology and Hydrogeology	.4-1	
	4.2	Analytical Results	.4-1	
		4.2.1 Data Usability Summary		
		4.2.2 Vertical Profile Groundwater Results		
		4.2.3 Subsurface Soil Samples		
		4.2.4 Exterior and Sub-Slab Soil Vapor	.4-2	
		4.2.5 Indoor Air		
5.		Summary	.5-1	
6.		Conclusions and Recommendations	_	
	6.1	Environmental Media	.6-1	

6.2 Remo	diations for Vapor Intrusion6-2		
7. Limita	imitations7-		
8. Refer	encesREF-2		
Appendice	es		
Appendix A	Records Review: EDR Report, Existing Environmental Documentation (CD-ROM)		
Appendix B	Field Parameter Results		
Appendix C	Boring Logs		
Appendix D	Laboratory Data Package (CD-ROM)		
Appendix F	Data Usability Summary Report		

List of Tables

- Table 1. Groundwater Analytical Results
- Table 2. Soil Analytical Results
- Table 3. Vapor Intrusion Analytical Results

List of Figures

- Figure 1. Site Location Map
- Figure 2-1. Historic & Current Site Features
- Figure 2-2. Former Monitoring Well Network
- Figure 3. 2011 Site Characterization Investigation Locations
- Figure 4-1. Volatile Organic Compounds Concentrations in Groundwater
- Figure 4-2. Volatile Organic Compounds Concentrations in Soil
- Figure 4-3. Chlorinated VOCs in Soil Vapor, Sub-Slab and Indoor Air

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.



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-trichlorethane 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 striping 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 degrades (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 ug/m³, TCE up to 19.5 ug/m³, and toluene up to 78.37 ug/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 ug/m³, n-heptane up to 81.7 ug/m³ and PCE up to 617.09 ug/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, Arsenic5 mg/I TCLP, Silver 5 mg/L TCLP, Chloroform 6 mg/I 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 μ g/L, 1,1,1-trichloroethylene at 950 μ g/L, 1,1,-DCA at 290 μ g/L, PCE at 200 μ g/L, and TCE at 110 μ g/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 transdichloroethylene 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 μ g/L in the shallow overburden wells and from below detection limits to 190 μ g/L in the deep overburden wells; 1,2-Transdichloroethylene ranged from below detection limits to 4,700 μ g/L in the shallow overburden wells and from below detection limits to

 $24 \,\mu\text{g/L}$ in the deeper overburden wells; PCE ranged from below detection limits to 620 $\mu\text{g/L}$ in the shallow overburden wells and from below detection limits to 40 $\mu\text{g/L}$ in the deep overburden wells; and TCE ranged from below detection limits to 3,330 $\mu\text{g/L}$ in the shallow overburden wells and from below detection limits to 84 $\mu\text{g/L}$ 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 μ g/L; 1,2-Transdichloroethylene ranged from below detection limits to 110 μ g/L; PCE ranged from below detection limits to 42 μ g/L; and TCE ranged from below detection limits to 430 μ g/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 μ g/L and TCE at 3.5 μ g/L were detected in this well. TCA at 65 μ g/L and TCE at 23 μ g/L were detected in well No 1 at concentrations higher than observed in SW-6. PCE at 24 μ g/L and TCE at 15 μ g/L were detected in well No. 2.

The production well located on the Readi-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 μ g/L; 1,2-Transdichloroethylene at 180 μ g/L; PCE at 3,400 μ g/L; and TCE at 91 μ g/L. The concentration of PCE was noted to be significantly higher than concentrations recorded on-Site (up to 640 μ g/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 μ g/L; 1,2-Transdichloroethylene ranged from below detection limits to 1.1 μ g/L (with only two detections); PCE ranged from below detection limits to 140 μ g/L; and TCE ranged from below detection limits to 7.9 μ g/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 μ g/L and B at 46 μ g/L) located in the northwestern portion of the Site, and dry well J (at 25 μ g/L). PCE concentrations were <4 μ g/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 μ g/L and 1.1 μ g/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 μ g/L, 1,2-Transdichloroethylene up to 24,000 μ g/L, PCE up to 1,000 μ g/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 of-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 μ g/L. An increase in VOC concentrations was observed in the deep production well located at the Readi-Mix property with PCE concentrations reaching 9,000 μ g/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 μ g/L , 1,2-Transdichloroethylene at 780 μ g/L, PCE at 300 μ g/L, TCE at 1,300 μ g/L. 1,1-DCE at 13 μ g/L, and 1,1-DCA at 12 μ g/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 μ g/L in July to 11 μ g/L in November) concentrations of Site constituents decreased to < 16 μ g/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 μ g/L , 1,2-Transdichloroethylene at 430 μ g/L, PCE at 240 μ g/L, TCE at 1,100 μ g/L, 1,1- DCE at75 μ g/L, and 1,1-DCA at 110 μ g/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 μ g/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 μ g/L and 8,500 μ g/L), TCE (at 410,000 μ g/L and 1,100 μ g/L), PCE (at 66,000 μ g/L and 470 μ g/L), 1,1-DCA (at 14,000 μ g/L and 280 μ g/L), 1,1-DCE (at 36,000 μ g/L and 310 μ g/L), 1,2-Transdichloroethylene (at 36,000 μ g/L and 140 μ g/L) and xylenes (at 52,000 μ g/L and 80 μ g/L), respectively. The five remaining CBs, located mainly in the southern half of the Site exhibited detections of ethylbenzene (up to 40 μ g/L), PCE (up to 30 μ g/L), xylenes (up to 470 μ g/L), and 1,2-Transdichloroethylene (up to 80 μ g/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 μ g/L), PCE (ranging from below detection limits to 5 μ g/L) and TCE (ranging from below detection limits to 1 μ g/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 μ g/L), 1,2-DCE (ranging from 3 μ g/L to 1,500 μ g/L), 1,1-DCA (ranging from below detection limits to 3 μ g/L), PCE (ranging from below detection limits to 6 μ g/L), TCE (ranging from below detection limits to 47 μ g/L), and vinyl chloride (ranging from below detection limits to 64 μ g/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 μ g/L, 1,1,1,- trichloroethylene up to 950 μ g/L, 1,1,-DCA up to 290 μ g/L, PCE up to 200 μ g/L, and TCE up to 110 μ g/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 $\frac{1}{4}$ mile and $\frac{1}{2}$ mile and two other water wells (USGS2115980 and USGS2116287) are located between a $\frac{1}{2}$ 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.



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 T0-15 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 T0-15 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.

Site Characterization Results

4.1 Site-Specific Geology and Hydrogeology

A description of the subsurface conditioned 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 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 $10~\mu g/L$ rather than $5~\mu g/L$ 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 NYSDEC'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 μ g/L and toluene at 6.7 μ g/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 μ g/L and 5 μ g/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 μ g/L, which is above the applicable criteria of 5 μ g/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 μ g/L and near the southern property boundary south of the GE repair facility (GWP-6-8-10) at 6 μ g/L. These BEHP detections are just slightly above the applicable criteria of 5 μ g/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 μ g/m³ in sample SV-03 to 13,000 μ g/m³ in sample SV-05, compared to an air guideline value of 100 μ g/m³. TCE concentrations ranged from 21 μ g/m³ in sample SV-03 to 540 μ g/m³ in sample SV-04, compared to an air guideline value of 5 μ g/m³.

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 μ g/m³ at SS-03 to 190,000 μ g/m³ at SS-04. TCE concentrations ranged from 67 μ g/m3 in sample SS-02 to 70,000 μ g/m³ in SS-04 compared to an air guideline value of 5 μ g/m³.

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 μ g/m³ in sample IA-04 to 4.9 μ g/m³ in sample IA-03 and TCE concentrations ranged from 0.4 μ g/m³ in sample IA-02 to 0.9 μ g/m³ 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.



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 to 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.



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.



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.

References

Airwork Corporation, May 20, 1987. "NPDES Discharge Monitoring Report".

Airwork Corporation, August 31, 1987. "NPDES Discharge Monitoring Report".

Airwork Corporation, October 1987. "NPDES Discharge Monitoring Report".

Airwork Corporation, January 26, 1989. "NPDES Discharge Monitoring Report".

Aircraft Turbine Service, May 7, 1984. Letter RE: ATS operations and materials usage/storage.

Aircraft Turbine Service, May 9, 1984. Letter RE: ATS Certificates of Operations for air contamination source removals.

Aircraft Turbine Service, November 12, 1984. Letter RE: October 1983 catch basin sampling.

Aircraft Turbine Service, December 6, 1984. Suffolk County Department of Health Application Permit to Construct from ATS for 19,370 square foot addition and relocation of ATS offices and shops to the site.

Baron-Blakeslee, Inc., February 8, 1984. EPA General Information Consolidated Permits Program Form.

ERM Northeast, September 1985. "Installation and Sampling of Monitoring Wells".

ERM Northeast, May 6, 1986. Letter RE: requesting sampling of influent/effluent data be reduced to once per week rather than twice per week per SPDES permit.

ERM Northeast, May 21, 1986. Letter RE: analytical results from two vertical groundwater profile borings.

Figure (suspected to be from SCDOH inspection) depicting Lay-out of cleaning room -July 29, 1986.

General Electric Company. Order On Consent and Administrative Settlement between GE and NYSDEC.

Interim Permit to Operate Hazardous/Toxic Material Storage Facility for UNC Accessory Services issued August 26, 1996.

McLaren Hart, Inc., March 27, 1998. "Phase I Environmental Assessment, UNC Accessory Services, 86 Cleveland Avenue, Bay Shore, New York".

McLaren Hart, Inc., May 28, 1998. "Phase I Environmental Assessment, UNC Accessory Services, 86 Cleveland Avenue, Bay Shore, New York".

McLaren Hart, Inc., May 28, 1998. "Phase II Environmental Assessment Report, UNC Accessory Services, Bay Shore, New York".

New York State Department of Conservation, 1984 and 1988. SPDES Discharge Permit and associated sampling data.

New York State Department of Conservation, September 3, 1986. Memorandum RE: Complaint and Requested Investigation.

New York State Department of Conservation, February 19, 2008. Letter RE: GE provide site access.

New York State Department of Conservation, June 19, 2009. Memorandum RE: work assignment for investigation.

New York State Department of Conservation, July 16, 2009. Contract to Proceed with Work Assignment between NYSDEC and HRP Associates Inc.

Smolensky, Douglas A.; Buxton, Herbert T.; Shernoff, Peter K., 1990, "Hydrologic framework of Long Island, New York, USGS Hydrologic Atlas No. 709.

Suffolk County Department of Health, November 16, 1984. Letter RE: Disposition of Existing Leaching Pool Systems.

Suffolk County Department of Health, April 2, 1986. Industrial Waste and Hazardous Materials Control Form.

Suffolk County Department of Health, June 5, 1986. Letter RE: reducing frequency of influent/effluent sampling from recharge wells from twice a week to one per month.

Suffolk County Department of Health, 1987. "Inactive Hazardous Waste Disposal Report," May to November.

Suffolk County Department of Health, August 31, 1987. Industrial Waste and Hazardous Materials Control Form.

Suffolk County Department of Health, November 25, 1987. Industrial Waste and Hazardous Materials Control Form.



Suffolk County Department of Health, March 21, 1988. SCDOH Form to NYDEC requesting addition to the Superfund List.

Suffolk County Department of Health, December 20, 1988. Letter RE: completion of Order on Consent.

Suffolk County Department of Health, June 12, 1989. Inspectors Observations or Interview Notes.

Suffolk County Department of Health, May 16, 1995. Order on Consent (T8-94-4241) failure to remove a 550 gallon petroleum tank (no . 10).

Suffolk County Department of Health, November 20, 1996. Letter RE: Soil Samples collected from drainage basins October 2, 1996.

Suffolk County Department of Health, February 3, 1997. Letter RE: no additional cleanup of the drain.

Tnemec, February 21, 1985. Letter RE: suggested coating floors with primer and finish to resist methylene chloride.

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.



Site Characterization Report			

Tables

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

Analyte Group:	Class GA Groundwater Criteria													
1-BTEX/Volatiles	NYS Part 703(1)	Federal		Location:	GWP-1	GWP-1	GWP-1	GWP-1	GWP-1	GWP-1	GWP-2	GWP-2	GWP-2	GWP-2
Analyte Name	Standard	MCL	Units	SampleName:	<u>GWP-1-14-16</u>	<u>GWP-1-24-26</u>	<u>GWP-1-34-36</u>	GWP-1-44-46	<u>GWP-1-54-56</u>	<u>GWP-1-62-64</u>	GWP-2-8-10	GWP-2-18-20	<u>GWP-2-28-30</u>	<u>DUP-071111</u>
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													
1-Volatiles	Criteria NYS Part 703(1)	Federal		Location:	GWP-1	GWP-1	GWP-1	GWP-1	GWP-1	GWP-1	GWP-2	GWP-2	GWP-2	GWP-2
Analyte Name	Standard	MCL	Units	SampleName:	<u>GWP-1-14-16</u>	<u>GWP-1-24-26</u>	GWP-1-34-36	<u>GWP-1-44-46</u>	<u>GWP-1-54-56</u>	<u>GWP-1-62-64</u>	GWP-2-8-10	GWP-2-18-20	<u>GWP-2-28-30</u>	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:	Class GA Groundwater													
2-SVOCs	Criteria NYS Part 703(1)	Federal		Location:	GWP-1	GWP-1	GWP-1	GWP-1	GWP-1	GWP-1	GWP-2	GWP-2	GWP-2	GWP-2
Analyte Name	Standard	MCL	Units	SampleName:	<u>GWP-1-14-16</u>	<u>GWP-1-24-26</u>	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:	Class GA Groundwater													
5-Metals	Criteria NYS Part 703(1)	Federal		Location:	GWP-1	GWP-1	GWP-1	GWP-1	GWP-1	GWP-1	GWP-2	GWP-2	GWP-2	GWP-2
Analyte Name	Standard	MCL	Units	SampleName:	<u>GWP-1-14-16</u>	<u>GWP-1-24-26</u>	<u>GWP-1-34-36</u>	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	*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													
5-Metals	Criteria NYS Part 703(1)	Federal		Location:	GWP-1	GWP-1	GWP-1	GWP-1	GWP-1	GWP-1	GWP-2	GWP-2	GWP-2	GWP-2
Analyte Name	Standard	MCL	Units	SampleName: G	WP-1-14-16	<u>GWP-1-24-26</u>	<u>GWP-1-34-36</u>	<u>GWP-1-44-46</u>	<u>GWP-1-54-56</u>	<u>GWP-1-62-6</u> 4	GWP-2-8-10	<u>GWP-2-18-20</u>	<u>GWP-2-28-30</u>	<u>DUP-071111</u>
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

Tuesday, January 10, 2012

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

Analyte Group:	Class GA												
1-BTEX/Volatiles	Groundwater Criteria			Location:	GWP-2	GWP-2	GWP-2	GWP-3	GWP-3	GWP-3	GWP-3	GWP-3	GWP-3
Analyte Name	NYS Part 703(1) Standard	Federal MCL	Units		GWP-2-38-40	GWP-2-48-50		GWP-3-9-11	GWP-3-19-21	·		·	- ———
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	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												
1-Volatiles	Criteria			Location:	GWP-2	GWP-2	GWP-2	GWP-3	GWP-3	GWP-3	GWP-3	GWP-3	GWP-3
Analyte Name	NYS Part 703(1) Standard	Federal MCL	Units		<u>GWP-2-38-40</u>	GWP-2-48-50		GWP-3-9-11	GWP-3-19-21	· · · · · · · · · · · · · · · · · · · 	• -		
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 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												
2-SVOCs	Criteria	E. J. al		Location:	GWP-2	GWP-2	GWP-2	GWP-3	GWP-3	GWP-3	GWP-3	GWP-3	GWP-3
Analyte Name	NYS Part 703(1) Standard	Federal MCL	Units	SampleName:	<u>GWP-2-38-40</u>	<u>GWP-2-48-50</u>	<u>GWP-2-58-60</u>	GWP-3-9-11	GWP-3-19-21	<u>GWP-3-29-31</u>	<u>GWP-3-39-41</u>	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	NA
Analyte Group:	Class GA Groundwater												
5-Metals	Criteria			Location:	GWP-2	GWP-2	GWP-2	GWP-3	GWP-3	GWP-3	GWP-3	GWP-3	GWP-3
Analyte Name	NYS Part 703(1) Standard	Federal MCL	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	*53100
Arsenic	25	10	UG/L		10 U	*13	*25	*23	*37	*12	*10	10 U	*34
Barium	1000	2000	UG/L		220	260	750	180	400	650	680	260	*1000
Beryllium	NE	4	UG/L		2 U	2 U	2.9	2.7	*4.4	2 U	2 U	2 U	*4.4
Cadmium	5	5	UG/L		1 U	1 U	1.6	4.9	1.6	1.8	1	1 U	2.8
Calcium	NE	NE	UG/L		26600	17400	20000	41500	91800	56700	34900	21600	23200
Chromium	50	100	UG/L		*210	*350	*1300	*470	*530	*200	*100	*230	*1500

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

Analyte Group:	Class GA Groundwater												
5-Metals	Criteria NYS Part 703(1)	Federal		Location:	GWP-2	GWP-2	GWP-2	GWP-3	GWP-3	GWP-3	GWP-3	GWP-3	GWP-3
Analyte Name	Standard	MCL	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
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

Analyte Group:	Class GA Groundwater													
1-BTEX/Volatiles	Criteria NYS Part 703(1)	Federal		Location:	GWP-4	GWP-4	GWP-4	GWP-4	GWP-4	GWP-4	GWP-5	GWP-5	GWP-5	GWP-5
Analyte Name	Standard	MCL	Units	SampleName:	<u>GWP-4-8-10</u>	GWP-4-18-20	<u>GWP-4-28-30</u>	<u>GWP-4-38-40</u>	<u>GWP-4-48-50</u>	<u>GWP-4-58-60</u>	<u>GWP-5-8-10</u>	<u>GWP-5-18-20</u>	<u>GWP-5-28-30</u>	<u>GWP-5-38-40</u>
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													
1-Volatiles	Groundwater Criteria NYS Part 703(1)	Federal		Location:	GWP-4	GWP-4	GWP-4	GWP-4	GWP-4	GWP-4	GWP-5	GWP-5	GWP-5	GWP-5
Analyte Name	Standard	MCL	Units	SampleName:	GWP-4-8-10	GWP-4-18-20	GWP-4-28-30	GWP-4-38-40	<u>GWP-4-48-50</u>	GWP-4-58-60	GWP-5-8-10	GWP-5-18-20	GWP-5-28-30	GWP-5-38-40
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													
2-SVOCs	Groundwater Criteria													
	NYS Part 703(1)	Federal		Location:	GWP-4	GWP-4	GWP-4	GWP-4	GWP-4	GWP-4	GWP-5	GWP-5	GWP-5	GWP-5
Analyte Name	Standard	MCL	Units	SampleName:	<u>GWP-4-8-10</u>	<u>GWP-4-18-20</u>	<u>GWP-4-28-30</u>	<u>GWP-4-38-40</u>	<u>GWP-4-48-50</u>	<u>GWP-4-58-60</u>	<u>GWP-5-8-10</u>	<u>GWP-5-18-20</u>	<u>GWP-5-28-30</u>	<u>GWP-5-38-40</u>
bis(2-Ethylhexyl)phthalate	5	6	UG/L		*13	NA	NA	NA	NA	NA	5 U	NA	NA	NA
Analyte Group:	Class GA Groundwater													
5-Metals	Criteria	.		Location:	GWP-4	GWP-4	GWP-4	GWP-4	GWP-4	GWP-4	GWP-5	GWP-5	GWP-5	GWP-5
Analyte Name	NYS Part 703(1) Standard	Federal MCL	Units	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
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 Analyte Name	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-5-8-10	GWP-5 GWP-5-18-20	GWP-5-28-30	GWP-5 GWP-5-38-40
											4			
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

Tuesday, January 10, 2012

Water Data Summary Page 1 - 3

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

Analyte Group:	Class GA Groundwater													
1-BTEX/Volatiles	Criteria NYS Part 703(1)	Federal		Location:	GWP-5	GWP-5	GWP-5	GWP-6	GWP-6	GWP-6	GWP-6	GWP-6	GWP-6	GWP-6
Analyte Name	Standard	MCL	Units	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:	Class GA Groundwater													
1-Volatiles	Criteria NYS Part 703(1)	Coderal		Location:	GWP-5	GWP-5	GWP-5	GWP-6	GWP-6	GWP-6	GWP-6	GWP-6	GWP-6	GWP-6
Analyte Name	Standard	Federal MCL	Units	SampleName:	GWP-5-48-50	D <u>UP-071411-</u> 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:	Class GA Groundwater													
2-SVOCs	Criteria	Coderal		Location:	GWP-5	GWP-5	GWP-5	GWP-6	GWP-6	GWP-6	GWP-6	GWP-6	GWP-6	GWP-6
Analyte Name	NYS Part 703(1) Standard	Federal MCL	Units	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:	Class GA Groundwater													
5-Metals	Criteria			Location:	GWP-5	GWP-5	GWP-5	GWP-6	GWP-6	GWP-6	GWP-6	GWP-6	GWP-6	GWP-6
Analyte Name	NYS Part 703(1) Standard	Federal MCL	Units	SampleName:	-	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: 5-Metals	Class GA Groundwater Criteria NYS Part 703(1)	Federal	***	Location:	GWP-5	GWP-5	GWP-5	GWP-6	GWP-6	GWP-6	GWP-6	GWP-6	GWP-6	GWP-6
Analyte Name	Standard	MCL	Units	SampleName:	<u>GWP-5-48-50</u>	D <u>UP-071411-</u> 1	<u>GWP-5-58-60</u>	<u>GWP-6-8-10</u>	<u>DUP-072211</u>	GWP-6-18-20	GWP-6-28-30	GWP-6-38-40	<u>GWP-6-48-50</u>	<u>GWP-6-58-60</u>
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

Analyte Group:	Class GA Groundwater Criteria												
1-BTEX/Volatiles	NYS Part 703(1)	Federal		Location:	GWP-7	GWP-7	GWP-7	GWP-7	GWP-7	GWP-7	GWP-8	GWP-8	GWP-8
Analyte Name	Standard	MCL	Units	SampleName:	<u>GWP-7-8-10</u>	<u>GWP-7-18-20</u>	<u>GWP-7-28-30</u>	<u>GWP-7-38-40</u>	<u>GWP-7-48-50</u>	<u>GWP-7-58-60</u>	<u>GWP-8-8-10</u>	<u>GWP-8-18-20</u>	<u>GWP-8-28-30</u>
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												
1-Volatiles	Criteria NYS Part 703(1)	Federal		Location:	GWP-7	GWP-7	GWP-7	GWP-7	GWP-7	GWP-7	GWP-8	GWP-8	GWP-8
Analyte Name	Standard	MCL	Units	SampleName:	GWP-7-8-10	GWP-7-18-20	GWP-7-28-30	GWP-7-38-40	GWP-7-48-50	<u>GWP-7-58-60</u>	GWP-8-8-10	GWP-8-18-20	<u>GWP-8-28-30</u>
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												
2-SVOCs	Criteria	-		Location:	GWP-7	GWP-7	GWP-7	GWP-7	GWP-7	GWP-7	GWP-8	GWP-8	GWP-8
Analyte Name	NYS Part 703(1) Standard	Federal MCL	Units	SampleName:	GWP-7-8-10	GWP-7-18-20	GWP-7-28-30	GWP-7-38-40	GWP-7-48-50	<u>GWP-7-58-60</u>	GWP-8-8-10	GWP-8-18-20	<u>GWP-8-28-30</u>
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												
5-Metals	Criteria			Location:	GWP-7	GWP-7	GWP-7	GWP-7	GWP-7	GWP-7	GWP-8	GWP-8	GWP-8
Analyte Name	NYS Part 703(1) Standard	Federal MCL	Units	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
Aluminum	NE 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

Tuesday, January 10, 2012

Water Data Summary Page 1 - 5

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

Analyte Group:	Class GA Groundwater												
5-Metals	Criteria NYS Part 703(1)	Federal		Location:	GWP-7	GWP-7	GWP-7	GWP-7	GWP-7	GWP-7	GWP-8	GWP-8	GWP-8
Analyte Name	Standard	MCL	Units	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

Tuesday, January 10, 2012

Water Data Summary Page 1 - 5

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

Analyte Group:	Class GA Groundwater Criteria												
1-BTEX/Volatiles	NYS Part 703(1)	Federal		Location:	GWP-8	GWP-8	GWP-8	GWP-9	GWP-9	GWP-9	GWP-9	GWP-9	GWP-9
Analyte Name	Standard	MCL	Units	SampleName:	GWP-8-38-40	GWP-8-48-50	<u>GWP-8-58-60</u>	GWP-9-10-12	GWP-9-20-22	GWP-9-30-32	<i>GWP-9-40-42</i>	<u>GWP-9-50-52</u>	<u>GWP-9-60-62</u>
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												
1-Volatiles	Criteria NYS Part 703(1)	Federal		Location:	GWP-8	GWP-8	GWP-8	GWP-9	GWP-9	GWP-9	GWP-9	GWP-9	GWP-9
Analyte Name	Standard	MCL	Units	SampleName:	GWP-8-38-40	GWP-8-48-50	<u>GWP-8-58-60</u>	GWP-9-10-12	GWP-9-20-22	GWP-9-30-32	GWP-9-40-42	GWP-9-50-52	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												
2-SVOCs	Criteria	Cadanal		Location:	GWP-8	GWP-8	GWP-8	GWP-9	GWP-9	GWP-9	GWP-9	GWP-9	GWP-9
Analyte Name	NYS Part 703(1) Standard	Federal MCL	Units	SampleName:	GWP-8-38-40	GWP-8-48-50	<u>GWP-8-58-60</u>	GWP-9-10-12	GWP-9-20-22	GWP-9-30-32	GWP-9-40-42	GWP-9-50-52	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												
5-Metals	Groundwater Criteria			Location:	GWP-8	GWP-8	GWP-8	GWP-9	GWP-9	GWP-9	GWP-9	GWP-9	GWP-9
Analyte Name	NYS Part 703(1) Standard	Federal MCL	Units	SampleName:	GWP-8-38-40	GWP-8-48-50	GWP-8-58-60	-	• -	· 	GWP-9-40-42	-	GWP-9-60-62
Aluminum	NE	200	UG/L	Samplervanies	*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	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
Site Characterization Investigation
Former Baron Blakeslee Site
Bay Shore, New York

Analyte Group:	Class GA Groundwater												
5-Metals	Criteria NYS Part 703(1)	Federal		Location:	GWP-8	GWP-8	GWP-8	GWP-9	GWP-9	GWP-9	GWP-9	GWP-9	GWP-9
Analyte Name	Standard	MCL	Units	SampleName:	GWP-8-38-40	GWP-8-48-50	GWP-8-58-60	GWP-9-10-12	GWP-9-20-22	GWP-9-30-32	GWP-9-40-42	GWP-9-50-52	GWP-9-60-62
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								
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

Analyte Group: 1-BTEX/Volatiles	Class GA Groundwater Criteria			Location:	<i>GWP-10</i>	<i>GWP-10</i>	<i>GWP-10</i>	<i>GWP-10</i>	GWP-10	GWP-10	GWP-10
Analyte Name	NYS Part 703(1) Standard	Federal MCL	Units	SampleName:	GWP-10-10-12	<u>GWP-10-20-22</u>	<u>GWP-10-30-32</u>	GWP-10-40-42	DUP-072011	<u>GWP-10-50-52</u>	<u>GWP-10-60-62</u>
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:	Class GA Groundwater										
1-Volatiles	Criteria			Location:	<i>GWP-10</i>	GWP-10	GWP-10	<i>GWP-10</i>	GWP-10	<i>GWP-10</i>	GWP-10
Analyte Name	NYS Part 703(1) Standard	Federal MCL	Units	SampleName:	$\frac{GWP-10-10-1}{GWP-10-10-1}$ 2		$\frac{GWP-10-30-3}{GWP-10-30-3}$	<u>GWP-10-40-4</u> 2	<u>DUP-072011</u>		
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:	Class GA Groundwater										
2-SVOCs	Criteria NYS Part 703(1)	Coderal		Location:	GWP-10	GWP-10	GWP-10	GWP-10	GWP-10	GWP-10	GWP-10
Analyte Name	Standard	Federal MCL	Units	SampleName:	<u>GWP-10-10-1</u> 2	<u>GWP-10-20-2</u> 2	<u>GWP-10-30-3</u> 2	<u>GWP-10-40-4</u> 2	DUP-072011	<u>GWP-10-50-5</u> 2	<u>GWP-10-60-6</u> 2
bis(2-Ethylhexyl)phthalate	5	6	UG/L		5.1 U	NA	NA	NA	NA	NA	NA
Analyte Group:	Class GA Groundwater										
5-Metals	Criteria			Location:	GWP-10	GWP-10	GWP-10	GWP-10	GWP-10	GWP-10	GWP-10
Analyte Name	NYS Part 703(1) Standard	Federal MCL	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 NE	200	UG/L	Samplervaniev	*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	420 2 U	420 2 U	2 U	2.7
Cadmium	NL 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

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

Analyte Group:	Class GA Groundwater										
5-Metals	Criteria NYS Part 703(1)	Federal		Location:	GWP-10	GWP-10	GWP-10	GWP-10	GWP-10	GWP-10	GWP-10
Analyte Name	Standard	MCL	Units	SampleName:	<u>GWP-10-10-1</u> 2	<u>GWP-10-20-2</u> 2	<u>GWP-10-30-3</u> 2	<u>GWP-10-40-4</u> 2	<u>DUP-072011</u>	GWP-10-50-52	G <u>WP-10-60-6</u> 2
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.

Tuesday, January 10, 2012 Water Data Summary Page 1 - 7

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

Soil Results:

Analyte Group:	Soil Cleanup [6 NYCRR Su	Objectives opart 375-6]							
1-Volatiles	Protection of	Protection of		Location:	SB-1	SB-2	<i>SB-3</i>	<i>SB-3</i>	SB-4
Analyte Name	Public Health - Industrial Use	Groundwater	Units	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
Analyte Group:	Soil Cleanup [6 NYCRR Su	Objectives bpart 375-6]							
5-Metals	Protection of	Protection of		Location:	SB-1	SB-2	<i>SB-3</i>	<i>SB-3</i>	<i>SB-4</i>
Analyte Name	Public Health - Industrial Use	Groundwater	Units	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

Tuesday, January 10, 2012

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

Tuesday, January 10, 2012 Soil Data Summary Page 1 - 2

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	Location:	IA-01	IA-02	IA-03	IA-04	SS-01	SS-02	SS-03	SS-04
Analyte Name		Units 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

Vapor Intrusion Data Summary Page 1 - 1

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

Air Results:

Analyte Group:									
VOCs	NYSDOH Air		Location:	SV-01	SV-01	SV-02	SV-03	SV-04	SV-05
Analyte Name	Guidelines	Units	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

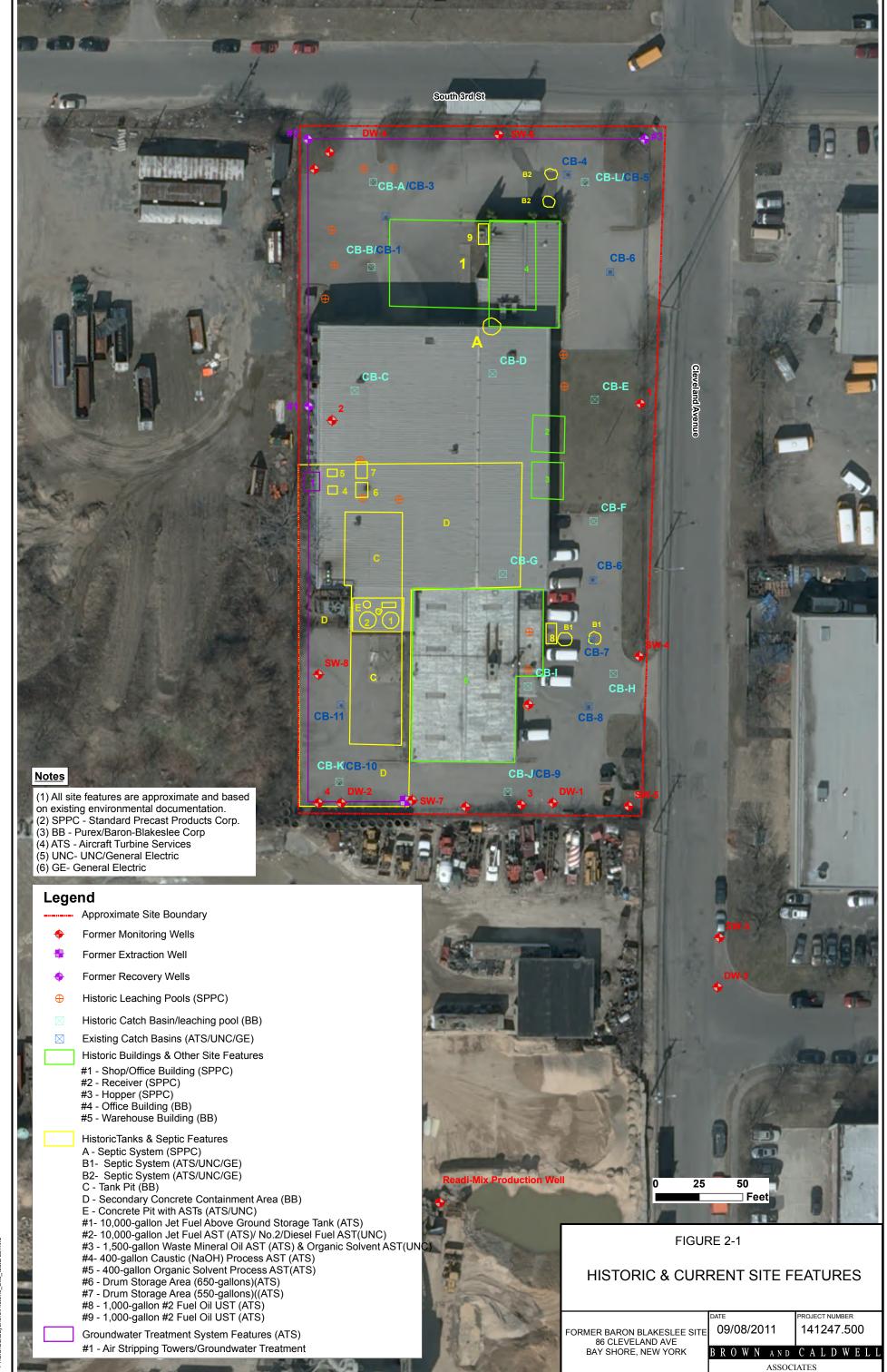
Tuesday, January 10, 2012 Vapor Intrusion Data Summary Page 2 - 1

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.

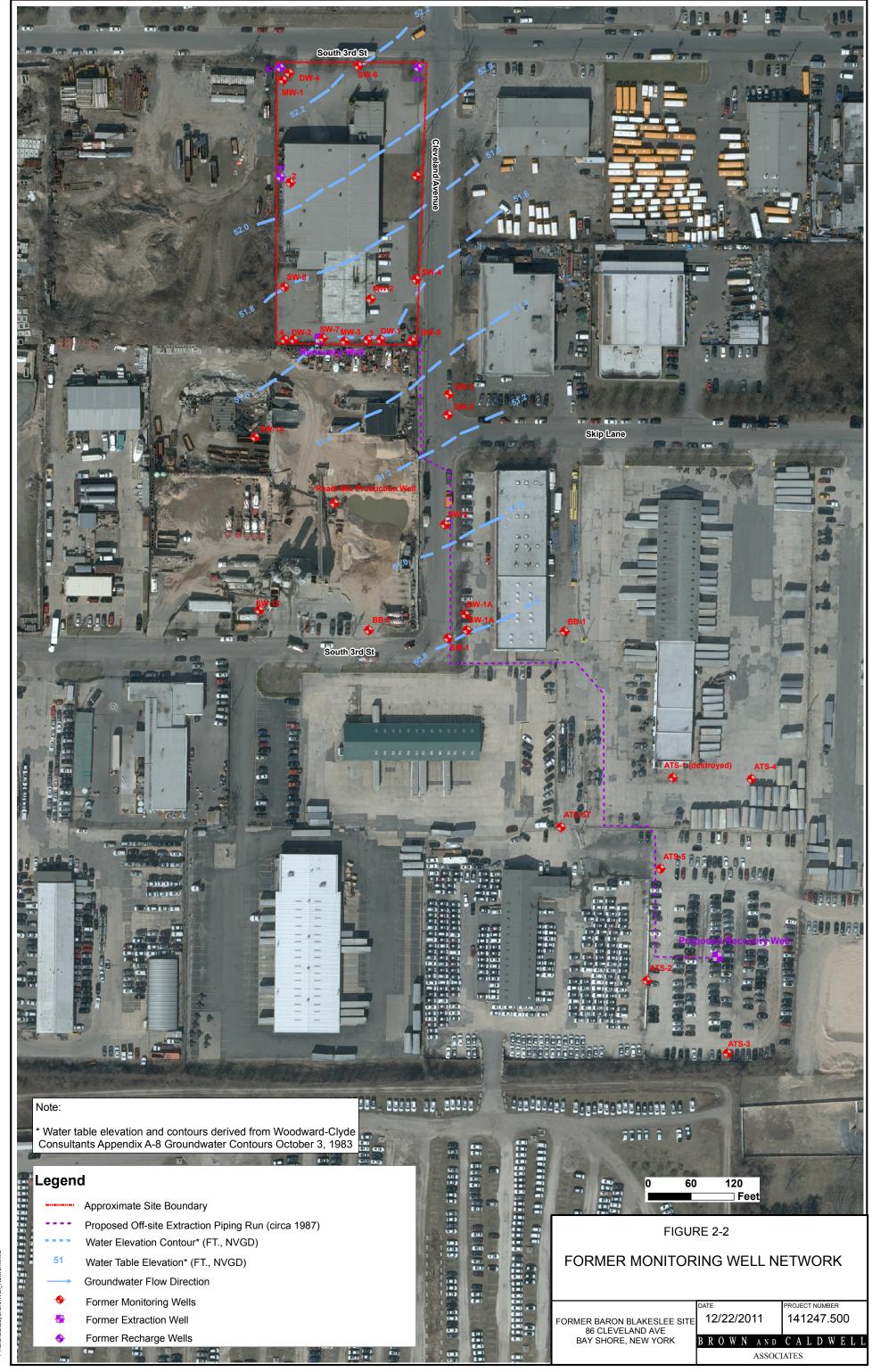
Site Characterization Report			

Figures

P:\GIS\GE\Bayshore\Bayshore_Site_Location.mxd

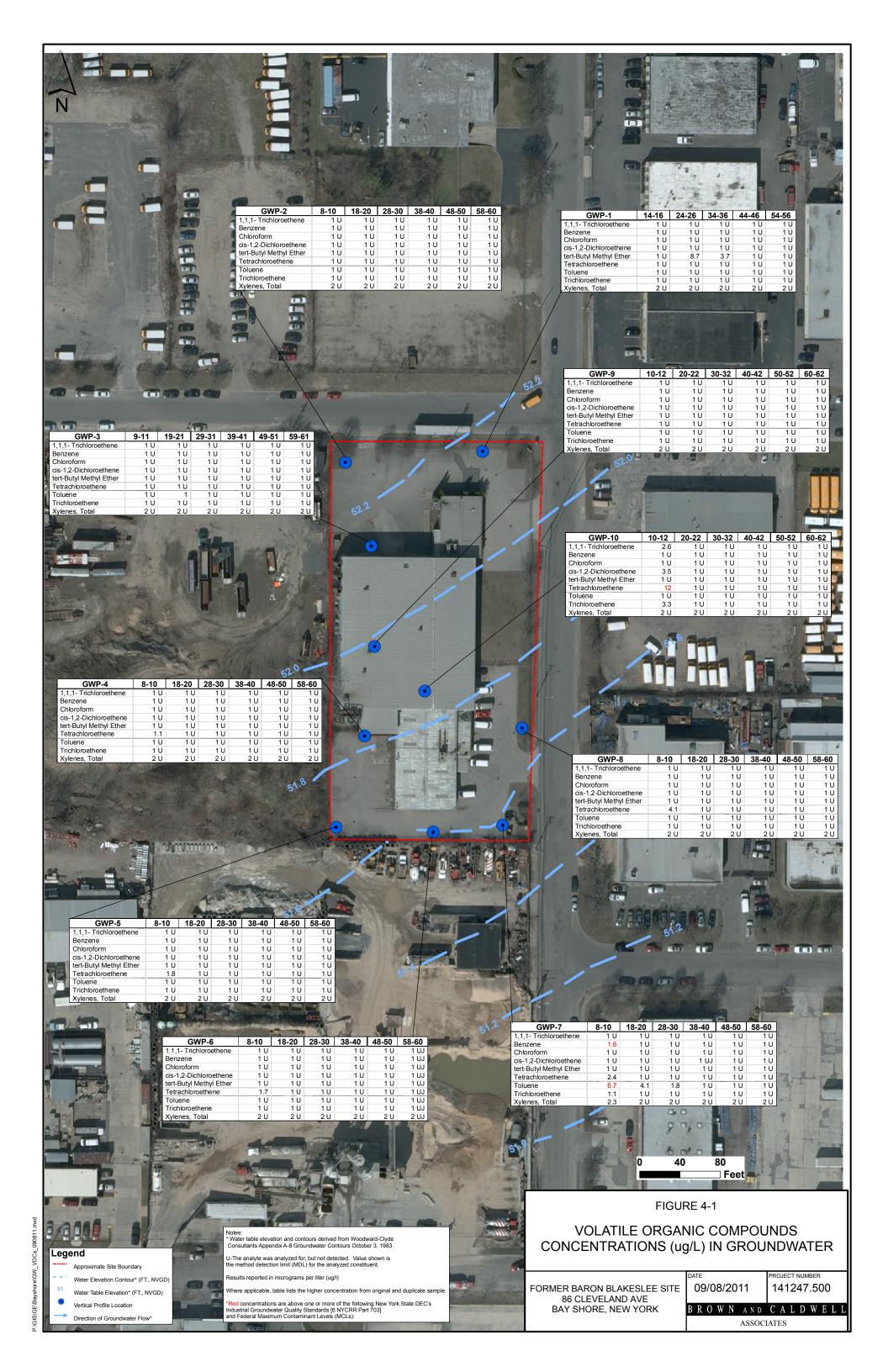


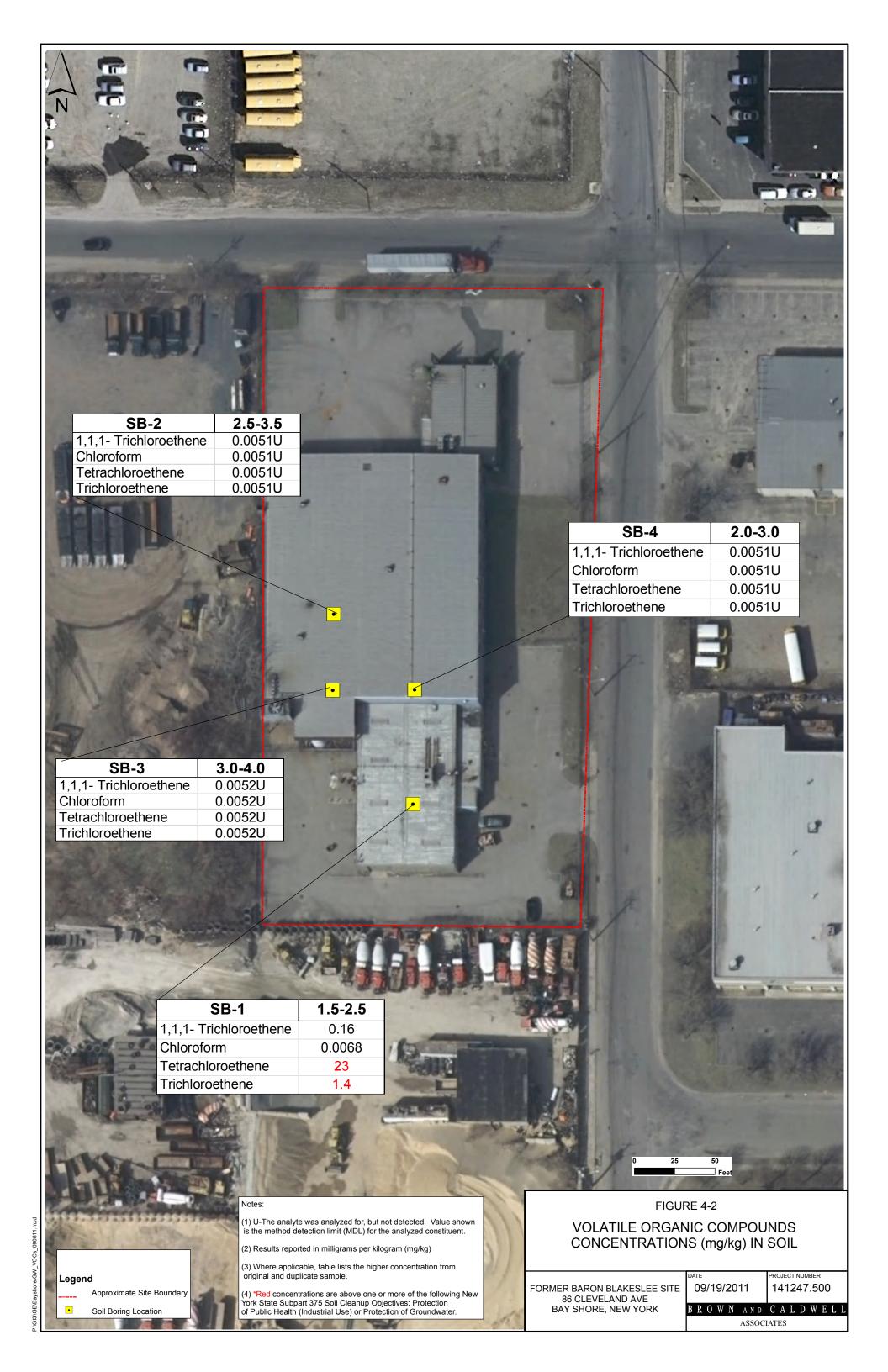
SIS/GE/Bayshore/Historic Site features

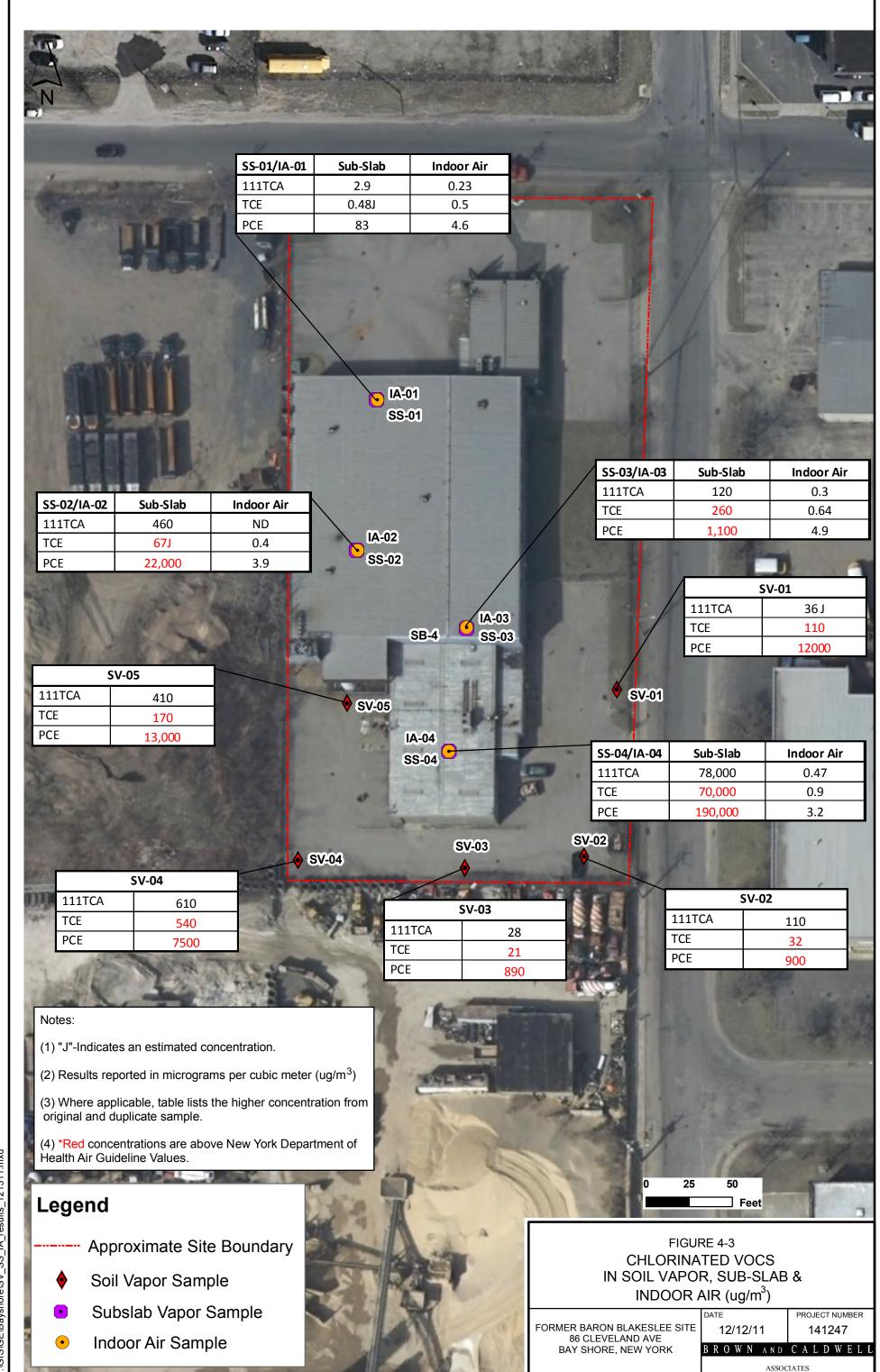




P:\GIS\GE\Bayshore\Sample_Locations.mxd







P:\GIS\GE\Bayshore\SV_SS_IA_results_121311.mxd

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

	Depth (ft.,		Cond		Turbidity		
Location	BGS)	pН	(mS/cm)	DO (mg/L)	(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" <i>*</i>	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" <i>*</i>	18.4	-34.0
GWP-6	28-30	5.48	0.418	3.98	"-5.0" <i>*</i>	18.0	44.0
GWP-6	38-40	4.94	0.259	8.39	"-5.0" <i>*</i>	17.2	133.0
GWP-6	48-50	5.46	0.301	5.29	"-5.0" <i>*</i>	17.7	31.0
GWP-6	58-60	5.25	0.160	0.73	"-5.0" <i>*</i>	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" <i>*</i>	20.7	NR
GWP-7	28-30	5.66	0.282	9.08	"-5.0" <i>*</i>	17.8	48.0
GWP-7	38-40	5.53	0.408	6.29	"-5.0" <i>*</i>	17.5	45.0
GWP-7	48-50	5.18	0.452	6.25	"-5.0" <i>*</i>	17.1	97.0
GWP-7	58-60	5.50	0.496	4.47	"-5.0" <i>*</i>	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	0.95	-5.0"*	23.8 18.4	-44.0 -20.0
GWP-8	28-30	5.89	0.769	2.40	-5.0"*	18.3	-20.0 -45.0
GWP-8	38-40	5.17	0.376	7.52	-5.0"*	15.9	-45.0 120.0
GWP-8	38-40 48-50	5.17 5.16	0.652	7.52 5.02	-5.0"*	16.3	94.0
GWP-8	48-50 58-60	4.73	0.652	1.96	-5.0 * "-5.0"*	16.6	94.0 161.0
GWF-0	20-00	4.13	0.492	1.90	-5.0	10.0	101.0

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

	Depth (ft.,		Cond		Turbidity		
Location	BGS)	рН	(mS/cm)	D0 (mg/L)	(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:

NR- No Value Recorded

All value recorded after purging of 3 volumes.
*Indicates turbidity values over 800 NTU (limits of Horiba U-22)



Appendix C: Boring Logs

BORING LOG

Brown AND Caldwell		Project Name: Project Number: Project Location:	1412	47.100		Permit Numb	er:	Boring No. SB-1 Page 1 of 1		
Geologist/Offic	e	Checked By:	Boreho	le Diameter:	Scree and T		Slot Size:	Т	otal Boring Depth (ft)	
B. Taylor/Allendale	e, NJ	CAS/FJW		2"	NA			NA"		5.0 ft.
Start/Finish Da	ite	Drilling Contra	ctor:	Sampling: C	Continuc	ous Core	Development	Method:		
7/19/11 - 7/19/11		Zebra		Hammer Typ	pe:		NA			
Driller:	Dril	ling Method:	Drilli	ng Equipmen			Proj: NAD83	D83		sting: 1181265.7 ft.
Evan M.	Dir	ect Push	Geop	robe		ert Datum:	NGVD29 c e Elev: 58.7 f			orthing: 218423.7 ft. OC Elev:

	Livan			Direct I usii	Ссорговс		Grou	and S	ur	face	Elev	: 58.7 ft.		TOC Elev:
		1)									Grap	hic Log	(ii)	
Depth (feet)	Elevation (feet)	USC Soil Type		Description		Blo Cour	w nts	Sample No.	Sample Int	Recovery	Lithology	Backfill	ppm Readings (ppm)	Remarks
5		SW	B	FILL/Reworked Strown f SAND, some Silt and Misc: Ashpalt). Dry ight Brown fc SAND and fc bry.	fc Gravel			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

BORING LOG

Brown AND Caldwell		Project Name: Project Number: Project Location:	1412	47.100	kesl	ee Site		Permit Num	ber:	Boring No. SB-2 Page 1 of 1
Geologist/Offic	ce	Checked By:	ccked By: Borehole Diameter: Screen Diameter and Type:							Total Boring Depth (ft)
B. Taylor/Allendal	le, NJ	CAS/FJW		N	ÍΑ		NA"		5.0 ft.	
Start/Finish Da	ate	Drilling Contra	ctor:	Sampling:	Con	tinuous Core	Development	Method:		
7/19/11 - 7/19/11		Zebra		Hammer T	ype:		NA			
Driller: Evan M.		lling Method: ect Push	Drilli Geop	ng Equipme	nt:	Horiz Datum, Vert Datum: Ground Surfac	NGVD29		N	nsting: 1181216.6 ft. orthing: 218541.3 ft. OC Elev:
o et)							Graphic Log	t (mdi		

27,007				Breet rush Geoprose			Ground Surface Elev: 60.5 ft.						TOC Elev:	
									Graphic I			hic Log	î	
Depth (feet)	Elevation (feet)	USC Soil Type		Description		Blo Cour	w nts	Sample No.	Sample Int	Recovery	Lithology	Backfill	ppm Readings (ppm)	Remarks
5-	60	SW SW	L lit B Si	Fill/Reworked So ight Brown fc SAND, some stitle(-) Silt. Dry. rown fc SAND and fc GRAVIL. Dry. rown fc SAND and fc GRAVIL. Dry. rown fc SAND and fc GRAVIL. Dry.	fc Gravel, VEL, little (-)			1					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

				DO	IXII	O I		U					
Brown AND Caldwell		Project Name: Fromer Baron Blakeslee Site Project Number: 141247.100 Project Location: Bay Shore, NY					Permit Number:		Boring No. SB-3 Page 1 of 1				
Geologist/Offic	e	Checked By:	Checked By: Borehole Diameter: Screen Diameter and Type:			Slot S	Size:	Total Boring Depth (
B. Taylor/Allendalo	e, NJ	NJ CAS/FJW 2" NA				NA	."	5.0 ft.					
Start/Finish Date Drilling Contractor: Sampling: Continuous Core Develop			opment	Method	d:								
7/19/11 - 7/19/11		Zebra	Hammer Type: NA										
Driller: Evan M.		ling Method: ect Push	Drilli Geop	ng Equip	ment: Horiz Datum/Proj: NAD83 Vert Datum: NGVD29 Ground Surface Elev: 60.5 ft					Easting: 1181216.1 ft. Northing: 218494.2 ft TOC Elev:			
(feet) n (feet) 1 Type					D1.		No.	Int	ΤŢ	hic Log Bacl		(mdd) ss	

\vdash				•		1		<u> </u>	Lis I se		
Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Sample Int	Recovery	Lithology	blic Log Backfill	ppm Readings (ppm)	Remarks
5—	60	SW SW SW	FILL Brown mfc SAND, little (-) Gravel and Silt. Dry. Dark Brown mfc SAND, some fc Gravel, little (+) Silt. Dry. Dark Brown mfc SAND, some mf Gravel, little (-) Silt. [Misc. Ashpalt]. Dry.		1					85.8	@22"=6.3, @26"=0.0, @30"=0.3,@34"=0.9, @38"=0.5, @42"=85.8, @48"=0.0

							ВО	RIN	IG I	LO	G						
		Project Name: Fromer Baron Blakeslee Site Project Number: 141247.100 Project Location: Bay Shore, NY							Permi	t N ur NA	nber:	Boring No. SB-4 Page 1 of 1					
C	Geolog	gist/(Offic	e	Checked By:	Boreho	le Diame		Screen and Ty		neter			Slot	Size:	Т	Total Boring Depth (ft)
В. Т	Γaylor	/Alle	ndal	e, NJ	CAS/FJW		2"	1	NA					N/	Α"		5.0 ft.
s	tart/I	Finisl	h Da	te	Drilling Contrac	ctor:	Samplin	ng: Co	ntinuou	s Cor	e	Devel	lopmen	t Metho	d:	•	
7/19	9/11 -	7/19/11 Zebra Hammer Type: NA															
	Driller:Drilling Method:Drilling EquipEvan M.Direct PushGeoprobe			Vert Datum: NGVD29 Northing: 218 Ground Surface Elev: 60.5 ft. TOC Elev:					sting: 1181266.8 ft. orthing: 218494.5 ft. OC Elev:								
Depth (feet)	Elevation (feet)	USC Soil Type		Description				ow unts	Sample No.	Sample Int Recovery	T	bhic Log Bac	kfill	ppm Readings (ppm)		Remarks	
5—	60	SW SW SW	Br Sil Lig (-)	t. Dry. ght Bro Silt. D ark Bro	FILL/Reworked of SAND, little f Grant own mfc SAND, son	ne Grave	el, little			1					16.7	cutting Sample PID F (a) 6"= (a) 14" (a) 22" (a) 30" (a) 38"	backfilled with soil gs and grouted. le Number: SB-4-2-3 Readings (ppm): 2.9, @10"=0.0, =8.5, @18"=8.9, =10.2, @26"=16.1, =16.7, @34"=13.9, =0.9, @42"=1.5, =1.1 @48"=0.2



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

<u>Samples</u>

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/M³)	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

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		

Job Number: 200-8242-1

Sdg Number: 200-8242

Ciient Sampie iD:

SS-01

Lab Sample ID:

200-8242-2

Client Matrix:

Air

Date Sampled: 11/15/2011 1507

Analysis Method: Summa Canister Prep Batch: N/A Lab File ID: bkin010.d			TO-15 Voiatile Organic	Compounds in Ambi	ient Air		
Diution: 1.0	Analysis Method:	TO-15	Analysis Batch:	200-29662	Instrument ID:	B.i	
Analysis Date: 11/28/2011 1710 Result (ppb v/v) Qualifier MDL R Analyte Result (ppb v/v) Qualifier MDL RL Dichiorodifluoromethane 7,0 0.338 0.50 1,2-Dichioroterafluoroethane 0.20 U 0.032 0.20 1,2-Dichioroterafluoroethane 0.20 U 0.029 0.20 1,3-Budatiene 0.17 J 0.010 0.20 Bromonethane 0.50 U 0.012 0.20 Bromonethane (Vinyl Bromide) 0.20 U 0.019 0.20 Bromonethane (Vinyl Bromide) 0.20 U 0.019 0.20 Bromonethane (Vinyl Bromide) 0.20 U 0.030 0.20 Bromonethane (Vinyl Bromide) 0.20 U 0.030 0.20 Scholoporpone 0.50 U 0.019 0.20 Trichiorotehne 0.20 U 0.030 0.20 Methylane Chloride 0.19 µBB 0.413 0.05	Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bkin010.d	
Analysis Date: 11/28/2011 1710 Result (ppb v/v) Qualifier MDL R Analyte Result (ppb v/v) Qualifier MDL RL Dichiorodifluoromethane 7,0 0.338 0.50 1,2-Dichioroterafluoroethane 0.20 U 0.032 0.20 1,2-Dichioroterafluoroethane 0.20 U 0.029 0.20 1,3-Budatiene 0.17 J 0.010 0.20 Bromonethane 0.50 U 0.012 0.20 Bromonethane (Vinyl Bromide) 0.20 U 0.019 0.20 Bromonethane (Vinyl Bromide) 0.20 U 0.019 0.20 Bromonethane (Vinyl Bromide) 0.20 U 0.030 0.20 Bromonethane (Vinyl Bromide) 0.20 U 0.030 0.20 Scholoporpone 0.50 U 0.019 0.20 Trichiorotehne 0.20 U 0.030 0.20 Methylane Chloride 0.19 µBB 0.413 0.05	Dilution:	1.0			Initial Weight/Volume:	200 mL	
Prep Date: 11/28/2011 1710 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 Vinyl chloride 0.20 U 0.012 0.20 Bromonethane 0.20 U 0.012 0.20 Bromonethane 0.50 U 0.016 0.50 Bromonethane (Vinyl Bromide) 0.20 U 0.019 0.20 Trichlorofluoromethane 0.31 0.034 0.20 0.20 Trichlorofluoromethane 0.31 0.034 0.20 0.20 Trichlorofluoromethane 0.50 U 0.019 0.50 Methyl sert-butyl ether 0.20 U 0.016 0.20 In-In-Inclinorotethane 0.20 U 0.032 0.20 In-In-Inclinorotethane 0.20 U 0.035 0.20 In-In-Inc	Analysis Date:						
Analyte Result (ppb v/v) Qualifier MDL RL Dichlorodifluoromethane 7.0 0.038 0.50 1,2-Dichlorodetrafluoroethane 0.20 U 0.032 0.20 Vinyl chloride 0.20 U 0.032 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 Bromomethane 0.50 U 0.016 0.50 Bromomethane 0.50 U 0.019 0.20 Chloroethane 0.50 U 0.019 0.20 Chloroethane 0.31 0.034 0.20 1,1-Dichloroethene 0.31 0.034 0.20 1,1-Dichloroethene 0.50 U 0.039 0.20 S-Chloropropene 0.50 U 0.030 0.20 S-Chloropropene 0.50 U 0.030 0.20 S-Chloropropene 0.50 U 0.030 0.20 S-Chloropropene 0.50 U 0.032 0.20 Interval to 0.20 U 0.035 0.20 Interval to 0.20 U 0.031 0.20 Interval to 0.20 U 0.033 0.20 Interval to 0.20 U 0.033 0.20 Interval to 0.20 U 0.031 0.20 Interval to 0.20 U 0.034 0.20 Interval to 0.20 U	•				-		
Dichlorodiffuoromethane 7.0 1,2-Dichlorodetrafluoroethane 0,20 U 0,032 0,20 1,3-Butadiene 0,17 J 0,010 0,20 Dichloroethane 0,20 U 0,012 0,20 Dichloroethane 0,20 U 0,012 0,20 Dichloroethane 0,20 U 0,012 0,20 Dichloroethane 0,50 U 0,016 0,50 Dichloroethane 0,31 0,034 0,20 Trichlorofluoromethane 0,31 0,034 0,20 Trichlorofluoromethane 0,31 0,034 0,20 Trichlorofluoromethane 0,50 U 0,019 0,50 Methylene Chloride 0,19 Methylene Chloride 0,20 U 0,013 0,50 Methylene Chloride 0,19 Methylene Chloride 0,19 Methylene Chloride 0,20 U 0,013 0,50 Methylene Chloride 0,19 Methylene Chloride 0,20 U 0,015 0,50 Methylene Chloride 0,20 U 0,015 0,50 Methylene Chloride 0,20 U 0,015 0,50 Methylene Chloride 0,20 U 0,016 0,20 U 0,032 0,20 U 0,032 0,20 U 0,032 0,20 U 0,032 0,20 U 0,035 0,20 U 0,035 0,20 U 0,044 0,20 U 0,044 0,20 U 0,044 0,20 U 0,044 0,20 Chloroform 0,20 U 0,033 0,20 Cyclohexane 0,14 J 0,099 0,20 Carbon letrachloride 0,20 U 0,033 0,20 Cyclohexane 0,14 J 0,099 0,20 Carbon letrachloride 0,20 U 0,033 0,20 Dichloroethane 0,20 U 0,034 0,20 Dichloroethane 0,20 U 0,036 0,20 Dichloroethane 0,	ricp bate.				injection volume.	200 1112	
1.2-Dichloroethane 1.2-Dichloroethane 0.20	Analyte		Result (p	pb v/v) Qualit	fier MDL	RL	
Viny Ichloride 0.20 U 0.029 0.20 J.3-Butadiene 0.17 J 0.010 0.20 Bromomethane 0.50 U 0.012 0.20 Bromoethene(Viryl Bromide) 0.20 U 0.019 0.20 Trichicorduoromethane 0.31 0.034 0.20 1,1-Dichicorethene 0.20 U 0.039 0.20 3-Chloropropene 0.50 U 0.039 0.20 3-Chloropropene 0.50 U 0.039 0.20 3-Chloropropene 0.50 U 0.019 0.50 Methyl terl-butyl ether 0.20 U 0.016 0.20 Lapate Touridio 0.19 J-B 9-B 9-BT 0.50 Methyl terl-butyl ether 0.20 U 0.032 0.20 0.20 Lapate Touridiorethene 0.20 U 0.032 0.20 0.20 1,1-Dichloroethane 0.20 U 0.014 0.20 0.20	Dichlorodifluorome	thane	7.0		0.038	0.50	
1,3-Butadiene	1,2-Dichlorotetraflu	oroethane	0.20	U	0.032	0.20	
Bromomethane 0.20 U 0.012 0.20 Chloroethane 0.50 U 0.016 0.50 Bromomethene(Vinyl Bromide) 0.20 U 0.019 0.20 Trichloroethere 0.31 0.034 0.20 1,1-Dichloroethere 0.20 U 0.030 0.20 3-Chloropropene 0.50 U 0.019 0.50 Methylene Chloride 0.19 J-B 0.041 0.50 Methyl tert-buyle ther 0.20 U 0.032 0.20 Ly-Dichloroethene 0.20 U 0.032 0.20 Ly-Dichloroethane 0.20 U 0.014 0.20 Chloroform 0.20 U 0.014 0.20 Chloroethane 0.13 0.20	Vinyi chloride		0.20	U -	0.029	0.20	
Bromoethane	1,3-Butadiene		0.17	J	0.010	0.20	
Bromoethene(Vinyl Bromide) 0.20 U 0.019 0.20 Trichiorofluoromethane 0.31 0.034 0.20 1,1-Dichioroethene 0.20 U 0.030 0.20 3-Chioropropene 0.50 U 0.019 0.50 Methyl lent-bulyl ether 0.20 U 0.016 0.20 trans-1,2-Dichloroethene 0.20 U 0.032 0.20 n-Hexane 0.21 0.032 0.20 0.20 1,1-Dichloroethene 0.20 U 0.035 0.20 1,2-Dichloroethene, Total 0.20 U 0.014 0.20 1,1-Trichloroethene, Total 0.20 U 0.014 0.20 1,1,1-Trichloroethane 0.53 0.035 0.20 Cyclohexane 0.14 J 0.039 0.20 Cyclohexane 0.14 J 0.039 0.20 Cyclohexane 0.14 J 0.039 0.20 Cyclohexane 0.14 J 0.039<	Bromomethane		0.20		0.012	0.20	
Bromoethene(Vinyl Bromide)	Chloroethane		0.50	U	0.016	0.50	
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 0.813 √ 0.50 Methylether 0.20 U 0.016 0.20 1.70 0.002 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.014 0.20 0.20 0.014 0.20 0.014 0.20 0.014 0.20 0.014 0.20 0.014 0.20 0.014 0.20 0.014 0.20 0.014 0.20 0.014 0.20 0.014 0.20 0.014 0.20 0.014 0.20 0.014 0.20 0.014 0.20 0.014 0.20 0.014 0.20 0.014 0.20 0.014 0.20 0.014 <td< td=""><td>Bromoethene(Vinyl</td><td>Bromide)</td><td>0.20</td><td></td><td>0.019</td><td>0.20</td><td></td></td<>	Bromoethene(Vinyl	Bromide)	0.20		0.019	0.20	
1,1-Dichloroethene 0.20 U 0.030 0.20 3-Chloropropene 0.50 U 0.019 0.50 Methyl ter-bulyl ether 0.20 U 0.016 0.20 trans-1,2-Dichloroethene 0.20 U 0.032 0.20 n-Hexane 0.21 0.028 0.20 1,1-Dichloroethane 0.20 U 0.035 0.20 1,1-Dichloroethane 0.20 U 0.035 0.20 1,1-Dichloroethene, Total 0.20 U 0.014 0.20 1,2-Dichloroethene, Total 0.20 U 0.014 0.20 1,1-Tichloroethane 0.20 U 0.014 0.20 1,1-Tichloroethane 0.53 0.035 0.20 Cydohexane 0.14 J 0.039 0.20 Cydohexane 0.14 J 0.039 0.20 Cydohexane 0.14 J 0.033 0.20 Cydohexane 0.14 J 0.033 0.20 Cydohexane 0.14 J 0.033 0.20		•	0.31		0.034	0.20	
3-Chloropropene 0.50 U 0.019 0.50 Methylene Chloride 0.19 J−B 0.913 (Ū			
Methylene Chloride 0.19 JFB 0.913* () 0.50 Methyl tert-bulyl ether 0.20 U 0.016 0.20 trans-1,2-Dichloroethene 0.20 U 0.032 0.20 n-Hexane 0.21 U 0.035 0.20 1,1-Dichloroethane 0.20 U 0.014 0.20 1,2-Dichloroethene, Total 0.20 U 0.014 0.20 1,1-Tirkloroethane 0.20 U 0.014 0.20 Chloroform 0.20 U 0.031 0.20 Cyclohexane 0.14 J 0.035 0.20 Cyclohexane 0.14 J 0.039 0.20 Cyclohexane 0.14 J 0.036	· ·						
Methyl tert-butyl ether 0.20 U 0.016 0.20 Irans-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 L,2-Dichloroethene, Total 0.20 U 0.014 0.20 Chloroform 0.20 U 0.031 0.20 Chloroform 0.53 0.035 0.20 Cyclohexane 0.14 J 0.035 0.20 Cydohexane 0.14 J 0.033 0.20 Carbon tetrachloride 0.20 U 0.033 0.20 Carbon tetrachloride 0.20 U 0.036 0.20 Benzene 0.20 U 0.036 0.20 I-2-Dichloroethane 0.20 U 0.031 0.20 I-1,2-Dichloropropane 0.20 U 0.014 0.20							
trans-1,2-Dichloroethene	•						
n-Hexane	•						
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 U 0.036 0.20 1,2-Dichloroethane 0.20 U 0.031 0.20 N-Heptane 0.19 J 0.010 0.20 Trichloroethane 0.19 J 0.010 0.20 Trichloropropane 0.20 U 0.031 0.20 Bromodichloromethane 0.20 U 0.014 0.20 Toluene 1.3 0.016 0.20 Irans-1,3-Dichloropropene 0.20 U 0.016 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 U 0.036 0.20 1,2-Dichloroethane 0.20 U 0.036 0.20 1,2-Dichloroethane 0.20 U 0.031 0.20 1,2-Dichloropropane 0.20 U 0.010 0.20 1,2-Dichloropropane 0.20 U 0.014 0.20 1,2-Dichloropropane 0.20 U 0.016 0.20 1,1,2-Trichloroethane 0.20 U 0.016 0.20 Toluene 1,3 0.01 0.02 <				· u			
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 U 0.036 0.20 1,2-Dichloroethane 0.20 U 0.031 0.20 1,2-Dichloroethane 0.19 J 0.010 0.20 1,2-Dichloropropane 0.20 U 0.010 0.20 1,2-Dichloropropane 0.20 U 0.014 0.20 Bromodichloromethane 0.20 U 0.016 0.20 1,2-Dichloropropene 0.20 U 0.016 0.20 1,1,2-Trichloroethane 0.20 U 0.020 0.20 1,1,2-Trichloroethane 0.20 U 0.011 0.20 1,2-Dibromoethane 0.20 U 0.011	•						
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 Benzane 0.20 U 0.031 0.20 1,2-Dichloroethane 0.20 U 0.031 0.20 1,2-Dichloropthane 0.19 J 0.010 0.20 1,2-Dichloropthane 0.090 J 0.030 0.20 1,2-Dichloropropane 0.20 U 0.014 0.20 Bromodichloromethane 0.20 U 0.014 0.20 Israns-1,3-Dichloropropene 0.20 U 0.016 0.20 Israns-1,3-Dichloropropene 0.20 U 0.018 0.20 Itrans-1,3-Dichloropropene 0.20 U 0.019 0.20 Itrans-1,3-Dichloropropene 0.20 U	•						
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 U 0.031 0.20 1,2-Dichloroethane 0.20 U 0.031 0.20 n-Heptane 0.19 J 0.010 0.20 richloroethene 0.090 J 0.030 0.20 1,2-Dichloropropane 0.20 U 0.014 0.20 1,2-Dichloropropane 0.20 U 0.014 0.20 Bromodichloromethane 0.20 U 0.016 0.20 Inchloropropene 0.20 U 0.016 0.20 Inchloropropene 0.20 U 0.016 0.20 Intrachloroethane 0.20 U 0.020 0.20 Intrachloroethane 0.20 U 0.011 0.20 Intrachloroethane 0.20 U 0.021 0	•	, , , , , ,		ŭ			
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 U 0.031 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 1,2-Dichloropropane 0.20 U 0.014 0.20 1,2-Dichloropropene 0.20 U 0.016 0.20 15-Ja-Dichloropropene 0.20 U 0.018 0.20 15-Liber Corporation 0.20 U 0.020 0.20 11,2-Trichloropropene 0.20 U 0.018 0.20 11,1,2-Trichloroethane 0.20 U 0.019 0.20 12-Dibromoethane 0.20 U		ne					
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 0.014 0.20 Iss-1,3-Dichloropropene 0.20 U 0.016 0.20 Ical Trichloropropene 0.20 U 0.018 0.20 Italian 0.018 0.20 0.020 0.20 Italian 0.020 U 0.018 0.20 Italian 0.020 U 0.019 0.20 Italian 0.020 U 0.019 0.20 Italian 0.020 U 0.011 0.20				· .1			
2,2,4-Trimethylpentane 0.20 U 0.036 0.20 Benzene 0.20 U 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 trans-1,3-Dichloropropene 0.20 U 0.016 0.20 1,1,2-Trichloroethane 0.20 U 0.020 0.20 1,1,2-Trichloroethane 0.20 U 0.011 0.20 1,2-Dibromoethane 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 mp-Xylene 0.37 J 0.048 0.50 Xylene, o- 0.15 J 0	•	le .					
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 0.018 0.20 1,1,2-Trichloroethane 12 0.011 0.20 Tetrachloroethane 12 0.011 0.20 Dibromochloromethane 0.20 U 0.021 0.20 1,2-Dibromoethane 0.14 J 0.022 0.20 mp-Xylene 0.37 J 0.048 0.50 Xylene, o-							
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 1,2-Trichloroethane 0.20 U 0.020 0.20 1,1,2-Trichloroethane 12 0.011 0.20 Dibromochloromethane 12 0.011 0.20 1,2-Dibromoethane 0.20 U 0.011 0.20 1,2-Dibromoethane 0.20 U 0.018 0.20 Ethylbenzene 0.14 J 0.022 0.20 Mp-Xylene 0.37 J 0.048 0.50 Xylene, o- 0.15 J 0.022 0.20 N				ŭ			
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 Bromofichloromethane 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 Xylene, o- Xylene 0.37 J 0.048 0.50 Xylene (total) 0.52 0.022 0.20 Bromoform 0.20 U 0.040 0.20 1,1,2,2-Tetrachloroethane 0.20 U 0.046 0.20				11			
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 Tetrachloroethane 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 Tylene, o- Xylene 0.37 J 0.048 0.50 Xylene (total) 0.52 0.022 0.20 Bromoform 0.20 U 0.019 0.20 1,1,2,2-Tetrachloroethane 0.20 U 0.046 0.20 4-Ethyltoluene 0.20 U 0.046 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 0.046 0.20 4-Ethyltoluene 0.20 U 0.046 0.20 <t< td=""><td>•</td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	•						
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 Tetrachloroethane 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 Mylene, o- 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 0.046 0.20 4-Ethyltoluene 0.072 J 0.051 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 Tetrachloroethane 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 0.046 0.20 4-Ethyltoluene 0.20 U 0.046 0.20 1,3,5-Trimethylbenzene 0.072 J 0.051 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 0.046 0.20 4-Ethyltoluene 0.20 U 0.046 0.20 1,3,5-Trimethylbenzene 0.072 J 0.051 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		pone		· ·			
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		ronene		11			
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							
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		iie		U			
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		nane		11			
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							
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	•	i					
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	•						
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	., .						
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				J			
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				11			
4-Ethyltoluene 0.20 U 0.046 0.20 1,3,5-Trimethylbenzene 0.072 J 0.051 0.20		othano					
1,3,5-Trimethylbenzene 0.072 J 0.051 0.20		Gu Iai IC					
		7000					
Analyte Result (ug/m3) Qualifier MDL RL	1,5,5-11metnyiben	zene	0.072	J	0.051	0.20	
	Analyte		Result (ug	g/m3) Qualifi	ier MDL	RL	
Dichlorodifluoromethane 35 0.19 2.5		thane	35		0.19	2.5	

Analytical Data

Job Number: 200-8242-1

Sdg Number: 200-8242

Cilent Sample iD:

Client: Brown and Caldwell

SS-01

Lab Sample ID:

200-8242-2

Client Matrix:

Air

Date Sampled: 11/15/2011 1507

.		TO-15 Volatile Organic	Compounds i	n Ambient Ai	r		
Analysis Method:	TO-15	Analysis Batch:	200-29662		rument ID:	B.i	
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab	File ID:	bkin010.d	
Dilution:	1.0			Initia	al Weight/Volume:	200 mL	
Analysis Date:	11/28/2011 1710			Fina	al Weight/Volume:	200 mL	
Prep Date:	11/28/2011 1710			Inje	ction Volume:	200 mL	
•							
Analyte		Result (u	ıg/m3)	Qualifier	MDL	RL	
1,2-Dichlorotetraflu	oroethane	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	
Trichlorofluorometh	ane	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 65	1.7	
Methyl tert-butyl eth	ner	0.72		U	0.058	0.72	
trans-1,2-Dichloroe	thene	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-Dichloroethe	ene	0.79		U	0.056	0.79	
1,2-Dichloroethene		0.79		U	0.056	0.79	
Chloroform	,	0.99			0.15	0.98	
1,1,1-Trichloroetha	ne	2.9			0.19	1.1	
Cyclohexane		0.47		J	0.13	0.69	
Carbon tetrachlorid	le	1.3		U	0.21	1.3	
2,2,4-Trimethylpeni		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		Ĵ	0.16	1.1	
1,2-Dichloropropan	ι Θ	0.92		Ū	0.065	0.92	
Bromodichlorometh		1.3		Ü	0.19	1.3	
cis-1,3-Dichloropro		0.91		Ü	0.073	0.91	
Toluene	helic	4.9		ŭ	0.068	0.75	
	ronone	0.91		U	0.091	0.91	
trans-1,3-Dichlorop	•	1.1		U	0.10	1.1	
1,1,2-Trichloroetha	ile -	83		O	0.075	1.4	
Tetrachloroethene		1.7		U	0.18	1.7	
Dibromochlorometh					0.14	1.5	
1,2-Dibromoethane	•	1.5		U	0.096	0.87	
Ethylbenzene		0.59		J	0.096	2.2	
m,p-Xylene		1.6		J		0.87	
Xylene, o-		0.66		J	0.096	0.87	
Xylene (total)		2.3			0.096		
Bromoform		2.1		U	0.20	2.1	
1,1,2,2-Tetrachloro	ethane	1.4		U	0.27	1.4	
4-Ethyltoluene		0.98		U	0.23	0.98	
1,3,5-Trimethylben	zene	0.36		J	0.25	0.98	

Job Number: 200-8242-1

Sdg Number: 200-8242

Ciient Sampie iD:

SS-02

Lab Sample ID:

200-8242-3

Client Matrix:

Air

Date Sampled: 11/15/2011 1554 Date Received: 11/17/2011 1010

TO 45 Volatile	Organia	Compounds	in Ambient Air
I U-16 Volatile	Organic	Compounds	in Ambient Air

Analysis Method: Prep Method: Dilution: Analysis Date: Prep Date:	TO-15 Summa Canister 240 11/28/2011 1803 11/28/2011 1803	Analysis Batch: Prep Batch:	200-29662 N/A	Instrument ID: Lab File ID: Initial Weight/Volume: Final Weight/Volume: Injection Volume:	B.i bkin011.d 55 mL 200 mL 200 mL
•	11/20/2011 1000				
Analyte		Result (p		alifier MDL	RL 400
Dichlorodifluoromet		120	U	9.1	120
1,2-Dichlorotetraflu	oroethane	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
Chioroethane		120	U	3.8	120
Bromoethene(Vinyl		48	U	4.6	48
Trichlorofluorometh	ane	48	U	8.2	48
1,1-Dichloroethene		48	U	7.2	48
3-Chloropropene		120	U	4.6	120
Methylene Chloride		13		3:1-13	120
Methyl tert-butyl eth		48	U	3.8	48
trans-1,2-Dichloroet	thene	48	U	7.7	48
n-Hexane		12	J	6.2	48
1,1-Dichloroethane		48	U	8.4	48
cis-1,2-Dichloroethe	ene	48	U	3.4	48
1,2-Dichloroethene,	, Total	48	U	3.4	48
Chloroform		48	U	7.4	48
1,1,1-Trichloroethar	ne	85		8.4	48
Cyclohexane		48	U	9.4	48
Carbon tetrachloride	е	48	U	7.9	48
2,2,4-Trimethylpent	ane	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	е	48	U	3.4	48
Bromodichlorometh	ane	48	U	6.7	48
cis-1,3-Dichloroprop	pene	48	U	3.8	48
Toluene		48	U	4.3	48
trans-1,3-Dichloropi	ropene	48	U	4.8	48
1,1,2-Trichloroethar		48	U	4.6	48
Tetrachloroethene		3300		2.6	48
Dibromochlorometh	ane	48	U	5.0	48
1,2-Dibromoethane		48	Ū	4.3	48
Ethylbenzene		6.2	J	5.3	48
m,p-Xylene		35	J	12	120
(ylene, o-		32	Ĵ	5.3	48
Kylene (total)		66		5.3	48
Bromoform		48	U	4.6	48
1,1,2,2-Tetrachloroe	ethane	48	Ū	9.6	48
4-Ethyltoiuene		48	Ű	11	48
1,3,5-Trimethylbenz	zene	48	Ü	12	48
.,=,=		,-	Ū		· ·
Analyte		Result (u	g/m3) Qua	alifier MDL	RL
Dichlorodifluoromet		590	U U	45	590

Job Number: 200-8242-1

Sdg Number: 200-8242

Client Sample iD:

SS-02

Lab Sample ID:

200-8242-3

Client Matrix:

Air

Date Sampled: 11/15/2011 1554

		TO-15 Volatile Organic	Compounds	in Ambient	Air		
Analysis Method:	TO-15	Analysis Batch:	200-29662		nstrument ID:	B.i	
Prep Method:	Summa Canister	Prep Batch	N/A	L	ab File ID:	bkin011.d	
Dilution:	240			Ir	nitial Weight/Volume:	55 mL	
Analysis Date:	11/28/2011 1803			F	inal Weight/Volume:	200 mL	
Prep Date:	11/28/2011 1803			ir	njection Volume:	200 mL	
		5		0		51	
Analyte		Result (u	g/m3)	Qualifier	MDL	RL	
1,2-Dichlorotetraflu	oroetnane	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		210		U	20	210	
Trichlorofluorometh		270		U	46	270	
1,1-Dichloroethene		190		U	29	190	
3-Chloropropene		380		U	14	380	
Methylene Chloride)	45		ل مطالد	.11 45	420	
Methyl tert-butyl eth		170		U	14	170	
trans-1,2-Dichloroe	thene	190		U	30	190	
n-Hexane		43		J	22	170	
1,1-Dichloroethane		190		U	34	190	
cis-1,2-Dichloroeth	ene	190		U	13	190	
1,2-Dichloroethene	, Total	190		U	13	190	
Chloroform		230		U	36	230	
1,1,1-Trichloroetha	ne	460			46	260	
Cyclohexane		170		U	32	170	
Carbon tetrachlorid	е	300		U	50	300	
2,2,4-Trimethylpeni	tane	220		U	40	220	
Benzene		150		U	14	150	
1,2-Dichloroethane		190		U	30	190	
n-Heptane		200		Ū	9.8	200	
Trichloroethene		67		J	39	260	
1,2-Dichloropropan	e	220		Ū	16	220	
Bromodichlorometh		320		Ü	45	320	
cis-1,3-Dichloropro		220		Ü	17	220	
Toluene	P-1.1-	180		Ü	16	180	
trans-1,3-Dichlorop	ronene	220		Ü	22	220	
1,1,2-Trichloroetha	•	260		U	25	260	
Tetrachloroethene	iic	22000		0	18	330	
	ana	410		U	43	410	
Dibromochlorometh		370			33	370	
1,2-Dibromoethane	1	370 27		U	23	210	
Ethylbenzene				J		520	
m,p-Xylene		150		J	50		
Xylene, o-		140		J	23	210	
Xylene (total)		290			23	210	
Bromoform		500		U	47	500	
1,1,2,2-Tetrachloro	ethane	330		U	66	330	
4-Ethyltoluene		240		U	54	240	
1,3,5-Trimethylben:	zene	240		U	60	240	

Job Number: 200-8242-1

Sdg Number: 200-8242

Client Sample iD:

SS-03

Lab Sample ID:

200-8242-5

Client Matrix:

Air

Date Sampled: 11/15/2011 1600

Date Received: 11/17/2011 1010

Analysis Method:	TO-15	Analysis Batch:	200-29662	ins	strument ID:	B.i	
Prep Method:	Summa Canister	Prep Batch:	N/A	La	b File ID:	bkin012.d	
Dilution:	8.0			Ini	tial Weight/Volume:	25 mL	
Analysis Date:	11/28/2011 1856				nal Weight/Volume:	200 mL	
Prep Date:	11/28/2011 1856				ection Volume:	200 mL	
Fiep Date.	11/20/2011 1000			,	Codon Volume.	2002	
Analyte		Result (p	pb v/v)	Qualifier	MDL	RL	
Dichlorodifluoromet	hane	0.60		J	0.30	4.0	
1,2-Dichlorotetrafluo	oroethane	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	
Trichlorofluorometh	•	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	6	0.53		آ ل B للد	0.10,53	4.0	
Methyl tert-butyl eth		1.6		Ù	0.13	1.6	
trans-1,2-Dichloroe		1.6		U	0.26	1.6	
n-Hexane		0.36		J	0.21	1.6	
1,1-Dichloroethane		1.6		Ü	0.28	1.6	
cis-1,2-Dichloroethe	ane	1.6		Ü	0.11	1.6	
1,2-Dichloroethene		1.6		Ü	0.11	1.6	
Chloroform	, rotar	0.35		J	0.25	1.6	
1,1,1-Trichloroetha	20	21		·	0.28	1.6	
• •	ile	0.76		J	0.31	1.6	
Cyclohexane	•	1.6		Ü	0.26	1.6	
Carbon tetrachlorid		1.6		Ü	0.29	1.6	
2,2,4-Trimethylpent	ane	0.53		J	0.14	1.6	
Benzene		1.6		U	0.14	1.6	
1,2-Dichloroethane					0.080	1.6	
n-Heptane		0.33		J		1.6	
Trichloroethene		49			0.24		
1,2-Dichloropropan		1.6		U	0.11	1.6	
Bromodichlorometh		1.6		U	0.22	1.6	
cis-1,3-Dichloroprop	pene	1.6		U	0.13	1.6	
Toluene		5.3			0.14	1.6	
trans-1,3-Dichlorop		1.6		U	0.16	1.6	
1,1,2-Trichloroetha	ne	1.6		U	0.15	1.6	
Tetrachioroethene		170			0.088	1.6	
Dibromochlorometh		1.6		U	0.17	1.6	
1,2-Dibromoethane	r .	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-Tetrachloro	ethane	1.6		U	0.32	1,6	
4-Ethyltoluene		1.6		U	0.37	1.6	
1,3,5-Trimethylben	zene	1,6		U	0.41	1.6	
Analuto		Posult /u	ıo/m3)	Qualifier	MDL	RL	
Analyte		Result (u	igniio)	Qualifier	IVIDL	INL	

TO-15 Volatile Organic Compounds in Ambient Air

Job Number: 200-8242-1

Sdg Number: 200-8242

Ciient Sample iD:

SS-03

Lab Sample iD:

200-8242-5

Client Matrix:

Air

Date Sampled: 11/15/2011 1600

,	то	-15 Voiatile Organic	Compounds	in Ambient A	Air		
Analysis Method: Prep Method: Dilution: Analysis Date: Prep Date:	TO-15 Summa Canister 8.0 11/28/2011 1856 11/28/2011 1856	Analysis Batch: Prep Batch:	200-29662 N/A	La Ini Fil	strument ID: ab File ID: itial Weight/Volume: nal Weight/Volume: jection Volume:	B.i bkin012.d 25 mL 200 mL 200 mL	
Analyte		Result (u	n/m3)	Qualifier	MDL	RL	
1,2-Dichlorotetraflu	proethane	11	g,,	U	1.8	11	
Vinyl chloride	3700.11.0110	4.1		Ü	0.59	4.1	
1,3-Butadiene		3.5		Ü	0.18	3.5	
Bromomethane		6.2		Ü	0.37	6.2	
Chloroethane		11		Ŭ	0.34	11	
Bromoethene(Vinyl	Bromide)	7.0		Ü	0.66	7.0	
Trichlorofluorometh		2.0		Ĵ	1.5	9.0	
1,1-Dichloroethene		6.3		Ū	0.95	6.3	
3-Chloropropene		13		Ü	0.48	13	
Methylene Chloride		1.8		∪ کالمہ	0.36	14	
Methyl tert-butyl eth		5.8		Ü	0.46	5.8	
trans-1,2-Dichloroe		6.3		Ü	1.0	6.3	
n-Hexane		1.3		j .	0.73	5.6	
1,1-Dichloroethane		6.5		Ŭ	1.1	6.5	
cis-1,2-Dichloroethe	one .	6.3		Ü	0.44	6.3	
1,2-Dichloroethene,		6.3		Ü	0.44	6.3	
Chloroform	100	1.7		Ĵ	1.2	7.8	
1,1,1-Trichloroethar	20	120		•	1.5	8.7	
Cyclohexane	16	2.6		J	1.1	5.5	
Carbon tetrachloride	a =	10		Ü	1.7	10	
2,2,4-Trimethylpent		7.5		Ŭ	1.3	7.5	
Benzene	aric	1.7		J	0.46	5.1	
1,2-Dichloroethane		6.5		Ü	1.0	6.5	
		1.4		J	0.33	6.6	
n-Heptane Trichloroethene		260		·	1.3	8.6	
1,2-Dichloropropan	9	7.4		U	0.52	7.4	
Bromodichlorometh		11		Ü	1.5	11	
cis-1,3-Dichloroprop		7.3		Ü	0.58	7.3	
Toluene	JOI 10	20		J	0.54	6.0	
trans-1,3-Dichlorop	ronene	7.3		U	0.73	7.3	
1,1,2-Trichloroethar	-	8.7		U	0.83	8.7	
Tetrachloroethene		1100			0.60	11	
Dibromochlorometh	ane	14		U	1.4	14	
1,2-Dibromoethane		12		Ü	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-Tetrachloro	ethane	11		Ü	2.2	11	
4-Ethyltoluene	ou iai io	7.9		Ü	1.8	7.9	
1,3,5-Trimethylbena	zene	7.9		Ü	2.0	7.9	
1,0,0- milleuryiberiz	.ene	1.5		9	2.0	10	23

Job Number: 200-8242-1

Sdg Number: 200-8242

Client Sample ID:

SS-04

Lab Sample ID:

200-8242-7

Client Matrix:

Air

Date Sampled: 11/15/2011 1615

Date Received: 11/17/2011 1010

Analysis Method:	TO-15	Analysis Batch:	200-29662	I	Instrument ID:	B.i	
Prep Method:	Summa Canister	Prep Batch:	N/A	1	Lab File ID:	bkin013.d	
Dilution:	1500			1	Initial Weight/Volume:	38 mL	
Analysis Date:	11/28/2011 1949				Final Weight/Volume:	200 mL	
Prep Date:	11/28/2011 1949			I	Injection Volume:	200 mL	83
Analyta		Result (p	inh v/v)	Qualifier	MDL	RL	
Analyte Dichlorodifluoromet	hono	750	po vivi	U	57	750	
บเตมอาจนาแนอเจากะแ 1.2-Dichlorotetrafluo		300		Ü	48	300	
	Dioethane	300		U	44	300	
Vinyl chloride 1,3-Butadiene		300		U	15	300	
•		300		U	18	300	
Bromomethane		750		Ü	24	750	
Chloroethane	Denmido)	300		U	29	300	
Bromoethene(Vinyl		300		U	51	300	
Trichlorofluorometh	ai ie	300		U	45	300	
1,1-Dichloroethene		750		U ·	29	750	
3-Chloropropene		750		∪ علا۔	29 20 79	750 750	
Methylene Chloride					24	300	
Methyl tert-butyl eth		300		U U	48	300	
trans-1,2-Dichloroet	inene	300			39	300	
n-Hexane		300		U	53	300	
1,1-Dichloroethane		300		U	21	300	
cis-1,2-Dichloroethe		300		U	21	300	
1,2-Dichloroethene,	lotal	300		U		300	
Chloroform		500			47		
1,1,1-Trichloroethar	10	14000			53	300	
Cyclohexane		300		U	59 50	300	
Carbon tetrachloride		300		U	50 5.4	300	
2,2,4-Trimethylpent	ane	300		U	54	300	
Benzene		300		U	27	300	
1,2-Dichloroethane		300		U	47	300	
n-Heptane		300		U	15	300	
Trichloroethene	et.	13000			45	300	
1,2-Dichloropropane		300		U	21	300	
Bromodichlorometh		300		U	42	300	
cis-1,3-Dichloropror	pene	300		U	24	300	
Toluene		300		U	27	300	
rans-1,3-Dichloropi	•	300		U	30	300	
1,1,2-Trichloroethar	ne	300		U	29	300	
Tetrachioroethene		27000			17	300	
Dibromochlorometh		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-Tetrachloroe	ethane	300		U	60	300	
4-Ethyltoluene		300		U	69	300	
1,3,5-Trimethylbenz	zene	300		U	77	300	
Analyte		Result (u	g/m3)	Qualifier	MDL	RL	
Dichlorodifluoromet	1	3700	<u> </u>	U	280	3700	

TO-15 Volatile Organic Compounds in Ambient Air

Job Number: 200-8242-1

Sdg Number: 200-8242

Client Sample ID:

SS-04

Lab Sample ID:

200-8242-7

Client Matrix:

Air

Date Sampled: 11/15/2011 1615

		TO-15 Volatile Organic	Compounds in Ambie	ent 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			RL
1,2-Dichlorotetraflu	oroethane	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
Trichlorofluorometh	ane	1700	U	290	1700
1,1-Dichloroethene		1200	U	180	1200
3-Chloropropene		2300	U	89	2300
Methylene Chloride		270	JB C	the state of the s	2600
Methyl tert-butyl eth	ner	1100	. U	87	1100
trans-1,2-Dichloroe	thene	1200	U	190	1200
n-Hexane		1100	U	140	1100
1,1-Dichloroethane		1200	U	210	1200
cis-1,2-Dichloroethe	ene	1200	U	83	1200
1,2-Dichloroethene,	, Total	1200	U	83	1200
Chloroform		2500		230	1500
1,1,1-Trichloroethar	ne	78000		290	1600
Cyclohexane		1000	U	200	1000
Carbon tetrachloride	е	1900	U	310	1900
2,2,4-Trimethylpent	ane	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-Dichloropropand	е	1400	U	97	1400
Bromodichlorometh	ane	2000	U	280	2000
cis-1,3-Dichloroprop	oene	1400	U	110	1400
Toluene		1100	U	100	1100
trans-1,3-Dichloropa	ropene	1400	U	140	1400
1,1,2-Trichloroethar		1600	U	160	1600
Tetrachloroethene		190000		110	2000
Dibromochlorometh	ane	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	Ū	290	3100
1,1,2,2-Tetrachloroe	ethane	2100	Ū	410	2100
4-Ethyltoluene		1500	Ū	340	1500
1,3,5-Trimethylbenz	zene	1500	Ü	380	1500
,,o,o ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		1000		300	

Analytical Data

Client: Brown and Caldwell

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

Ciient Sample iD:

SV-01

Lab Sample ID:

200-8242-9

Client Matrix:

Air

Date Sampled: 11/15/2011 1622

Date Received: 11/17/2011 1010

	¥1	TO-15 Voiatile Organic	Compounds in	Amblent Air		
Analysis Method: Prep Method: Dilution: Analysis Date: Prep Date:	TO-15 Summa Canister 90.1 11/28/2011 2042 11/28/2011 2042	Analysis Batch: Prep Batch:	200-29662 N/A	Lab Fi Initial \ Final \	ment ID: le ID: Weight/Volume: Weight/Volume: on Volume:	B.i bkin014.d 36 mL 200 mL 200 mL
Analyte		Result (p	nb v/v) C	Qualifier	MDL	RL
Dichlorodifluoromet	hana	45	, L		3.4	45
1,2-Dichlorotetraflu		18	ĭ		2.9	18
Vinyl chloride	ordetriarie	18	ũ		2.6	18
1,3-Butadiene		18	ũ		0.90	18
Bromomethane		18	ũ		1.1	18
Chloroethane		45		_	1.4	45
Bromoethene(Vinyl	Bromide)	18			1.7	18
Trichlorofluorometh		18	ũ		3.1	18
1,1-Dichloroethene		18	, i		2.7	18
•	The state of the s	- 18 · 45	Ĺ		1.7	45
3-Chloropropene Methylene Chloride		5.2		, HB∕U	1.2 5.2	45
Methyl tert-butyl eth		18			1.4	18
•		18			2.9	18
trans-1,2-Dichloroe n-Hexane	u ici ic	18	i		2.3	18
		18	i		3.2	18
1,1-Dichloroethane		18	į		1.3	18
cis-1,2-Dichloroethe		18	į		1.3	18
1,2-Dichloroethene	, Iotai	18	ĺ		2.8	18
Chloroform		6.5	J		3.2	.18
1,1,1-Trichloroetha	ne	18	J L		3.5	18
Cyclohexane	_	18	į		3.0	18
Carbon tetrachlorid			, ,		3.2	18
2,2,4-Trimethylpent	ane	18	į.		1.6	18
Benzene		18			2.8	18
1,2-Dichloroethane		18	Ļ		0.90	18
n-Heptane		18	ι	,	2.7	18
Trichloroethene		20			2.7 1.3	18
1,2-Dichloropropan		18	Ų			18
Bromodichlorometh		18	Ĺ		2.5	18
cis-1,3-Dichloroprop	pene	18	Ų		1.4	18
Toluene		18	Į.		1.6	18
trans-1,3-Dichlorop		18	Į.		1.8	18
1,1,2-Trichloroetha	ne	18	ι	J	1.7	18
Tetrachloroethene		1800			0.99	
Dibromochlorometh		18	Į.		1.9	18 19
1,2-Dibromoethane	1	18		J	1.6	18
Ethylbenzene		18		J	2.0	18 45
m,p-Xylene		45		J	4.3	45 18
Xylene, o-		18		J	2.0	18
Xylene (total)		18		J	2.0	18
Bromoform		18		J	1.7	
1,1,2,2-Tetrachloro	ethane	18		J	3.6	18
4-Ethyltoluene		18		J	4.1	18
1,3,5-Trimethylben:	zene	18	· ·)	4.6	18
Analyte		Result (u		Qualifier	MDL	RL
Dichlorodifluorome	thane	220	l	J	17	220

Job Number: 200-8242-1

Sdg Number: 200-8242

Client Sample iD:

SV-01

Lab Sample ID:

200-8242-9

Client Matrix:

Air

Date Sampled: 11/15/2011 1622

Date Received: 11/17/2011 1010

TO-15 Volatile	Organic Compound	de in	Ambient Air	

Analysis Method:

TO-15

Summa Canister

Analysis Batch:

200-29662

Instrument ID:

B.i

Prep Method:

Prep Batch:

N/A

Lab File ID:

bkin014.d

Dilution:

90.1

Initial Weight/Volume:

36 mL

Dilution:			Initial Weight Volume: 36 mL				
Analysis Date:	11/28/2011 2042				Weight/Volume:	200 mL	
Prep Date:	11/28/2011 2042			Injec	tion Volume:	200 mL	
Analyte			Result (ug/m3)	Qualifier	MDL	RL	
1,2-Dichlorotetraflu	ıoroethane		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(Viny	l Bromide)		79	U	7.5	79	
Trichlorofluorometi			100	U	17	100	
1,1-Dichloroethene	•		71	U	11	71	
3-Chloropropene			140	U	5.4	140	
Methylene Chloride	е		18	ن کھلو	4118	160	
Methyl tert-butyl et	her	-m 1	65	Ū	5.2	65	
trans-1,2-Dichloroe	ethene		71	U	11	71	
n-Hexane			64	U	8.3	64	
1,1-Dichloroethane	e a		73	U	13	73	
cis-1,2-Dichloroeth			71	U	5.0	71	
1,2-Dichloroethene	e, Total		71	U	5.0	71	
Chloroform			88	U	14	88	
1,1,1-Trichloroetha	ane		36	J	17	98	
Cyclohexane			62	U	12	62	
Carbon tetrachlorio	de		110	U	19	110	
2,2,4-Trimethylpen	tane		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		15	97	
1,2-Dichloropropar	ne .		83	U	5.8	83	
Bromodichloromet	hane		120	U	17	120	
cis-1,3-Dichloropro	ppene		82	U	6.5	82	
Toluene			68	U	6.1	68	
trans-1,3-Dichlorop	propene		82	U	8.2	82	
1,1,2-Trichloroetha			98	U	9.3	98	
Tetrachloroethene			12000		6.7	120	
Dibromochloromet	hane		150	U	16	150	
1,2-Dibromoethane	e		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-Tetrachloro	pethane		120	U	25	120	
4-Ethyltoluene			89	U	20	89	
1,3,5-Trimethylben	zene		89	U	23	89	
, , ,							

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

220

17

Analysis Method: Prep Method:	TO-15 Summa Canister	Analysis Batch: Prep Batch:	200-29662 N/A		nstrument ID: .ab File ID:	B.i bkin015.d	
Dilution:	90.4	•		I	nitial Weight/Volume:	38 mL	
Analysis Date:	11/28/2011 2135				Final Weight/Volume:	200 mL	
Prep Date:	11/28/2011 2135				njection Volume:	200 mL	
Analyta		Result (p	nh v(v)	Qualifier	MDL	RL	
Analyte Dichlorodifluorometl	1900	45	pb 4/4/	U	3.4	45	
,2-Dichlorotetraflu		18		U	2.9	18	
/inyl chloride	noethane	18		Ü	2.6	18	
•		18		Ü	0.90	18	
1,3-Butadiene Bromomethane		18		U	1.1	18	
Chloroethane		45		U	1.4	45	
	Bromido)	18		Ü	1.7	18	
romoethene(Vinyl richlorofluorometh		18		U	3.1	18	
,1-Dichloroethene	3110	18		U	2.7	18	
•		n, 45		U	1.7	45	
-Chloropropene	P	5.6		ک طر	1.2 5.6	45	
lethylene Chloride	er	18		N N	1.4	18	
fethyl tert-butyl eth ans-1,2-Dichloroet		18		U	2.9	18	
ans-1,2-Dichloroet -Hexane	nene	18		U	2.4	18	
		18		U	3.2	18	
,1-Dichloroethane		18		U	1.3	18	
is-1,2-Dichloroethe		18		U	1.3	18	
,2-Dichloroethene,	lotai	18		U	2.8	18	
hloroform					3.2	18	
,1,1-Trichloroethar	le	6.2 18		IJ	3.5	18	
yclohexane				U	3.0	18	
arbon tetrachlonde		18		U	3.3	18	
,2,4-Trimethylpenta	ane	18 18		U	1.6	18	
Benzene		18			2.8	18	
,2-Dichloroethane				U U	0.90	18	
-Heptane		18		U	2.7	18	
richloroethene		21				18	
,2-Dichloropropane		18		U	1.3	18	
romodichlorometh		18		U	2.5		
is-1,3-Dichloroprop	ene	18		U	1.4	18 19	
oluene		18		U	1.6	18	
ans-1,3-Dichloropr	-	18		U	1.8	18	
,1,2-Trichloroethar	e	18		U	1.7	18 19	
etrachloroethene		1700			0.99	18	
bibromochlorometh	ane	18		U	1.9	18 19	
,2-Dibromoethane		18		U	1.6	18	
thylbenzene		18		U	2.0	18 45	
n,p-Xylene		45		U	4.3	45 19	
ylene, o-		18		U	2.0	18	
ylene (total)		18		U	2.0	18	
romoform		18		U	1.7	18	
,1,2,2-Tetrachloroe	ethane	18		U	3.6	18	
-Ethyltoluene		18		U	4.2	18	
,3,5-Trimethylbenz	ene	18		U	4.6	18	

Analytical Data

Job Number: 200-8242-1

Sdg Number: 200-8242

Cilent Sample ID:

Client: Brown and Caldwell

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	Organia	Compounds	I- A-	blant Air
I U-15 Volatile	Urganic	Compounds	IN AN	ibient Air

Analysis Method:

TO-15

Summa Canister

Analysis Batch:

200-29662

Instrument ID:

B.i

Prep Method:

Prep Batch:

N/A

Lab File ID:

bkin015.d

Dilution:

90.4

Initial Weight/Volume:

38 mL

Analysis Date:

Final Weight/Volume:

200 mL

11/28/2011 2135

Analysis Date: 11/28/2011 2135 Prep Date: 11/28/2011 2135			I Weight/Volume: tion Volume:	200 mL 200 mL	
Analyte	Result (ug/m3)	Qualifier	MDL	RL	
1,2-Dichlorotetrafluoroethane	130	U	20	130	
Vinyl çhloride	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	JB U	4720	160	
Methyl tert-butyl ether	⁻² 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	Ü	14	88	
1,1,1-Trichloroethane	34	j	17	99	
Cyclohexane	62	Ū	12	62	
Carbon tetrachloride	110	Ü	19	110	
2,2,4-Trimethylpentane	84	Ū	15	84	
Benzene	58	Ü	5.2	58	
1,2-Dichloroethane	73	Ü	11	73	
n-Heptane	74	Ü	3.7	74	
Trichloroethene	110	-	15	97	
1,2-Dichloropropane	84	U	5.8	84	
Bromodichloromethane	120	Ü	17	120	
cis-1,3-Dichloropropene	82	Ü	6.6	82	
Toluene	68	Ü	6.1	68	
trans-1,3-Dichloropropene	82	Ü	8.2	82	
1,1,2-Trichloroethane	99	Ü	9.4	99	
Tetrachloroethene	12000	Ū	6.7	120	
Dibromochloromethane	150	U	16	150	
1,2-Dibromoethane	140	Ü	13	140	
Ethylbenzene	79	Ü	8.6	79	
m,p-Xylene	200	Ü	19	200	
Xylene, o-	79	Ü	8.6	79	
Xylene (total)	79 79	Ü	8.6	79	
Bromoform	190	Ü	18	190	
1,1,2,2-Tetrachloroethane	120	Ü	25	120	
	89	U	20	89	
4-Ethyltoluene 1,3,5-Trimethylbenzene	89	U	23	89	
1,3,3-milleuryibenzene	OB	U	20	03	

Job Number: 200-8242-1

Sdg Number: 200-8242

Client Sample ID:

SV-02

Lab Sample ID:

200-8242-11

Client Matrix:

Air

Date Sampled: 11/15/2011 1627

	-	TO-15 Volatile Organic	Compounds In A	mblent Air	
Analysis Method: Prep Method: Dilution: Analysis Date:	TO-15 Summa Canister 6.9 11/28/2011 2227	Analysis Batch: Prep Batch:	200-29662 N/A	Instrument ID: Lab File ID: Initial Weight/Volume Final Weight/Volume	200 mL
Prep Date:	11/28/2011 2227			Injection Volume:	200 mL
Analyte		Result (p	pb v/v) Q	ualifier MDL	RL
Dichlorodifluoromet	hane	0.56	j	0.26	3.5
1,2-Dichlorotetraflu	oroethane	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
Trichlorofluorometh		0.27	J	0.23	1.4
1,1-Dichloroethene		1.4	U	0.21	1.4
3-Chloropropene		3.5	Ū	0.13	3.5
Methylene Chloride	•	0.48	ىلد	- ()	3.5
Methyl tert-butyl eth		1.4	U	0.11	1.4
trans-1,2-Dichloroe		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-Dichloroethe	ene	0.84	J	0.097	1.4
1,2-Dichloroethene		0.84	Ĵ	0.097	1.4
Chloroform	, , , =	1.4	Ū	0.21	1.4
1,1,1-Trichloroethai	ne	19	45	0.24	1.4
Cyclohexane		0.59	J	0.27	1.4
Carbon tetrachlorid	e	1.4	Ū	0.23	1.4
2,2,4-Trimethylpent		1.4	Ü	0.25	1.4
Benzene		0.53	j	0.12	1.4
1,2-Dichloroethane		1.4	Ü	0.21	1.4
n-Heptane		0.62	j	0.069	1.4
Trichloroethene		5.9	ŭ	0.21	1.4
1,2-Dichloropropan	e N	1.4	υ	0.097	1.4
Bromodichlorometh		1.4	Ü	0.19	1.4
cis-1,3-Dichloroprop		1.4	νυ	0.11	1.4
Toluene	55115	1.3	j	0.12	1.4
trans-1,3-Dichlorop	ronene	1.4	Ü	0.14	1.4
1,1,2-Trichloroetha	•	1.4	Ü	0.13	1.4
Tetrachloroethene		130	U	0.076	1.4
Dibromochlorometh	ane	1.4	U	0.14	1.4
1,2-Dibromoethane		1.4	. U	0.12	1.4
Ethylbenzene		0.50	J	0.12	1.4
m,p-Xylene		1.5	J	0.13	3.5
Xylene, o-		0.89	J	0.35	1.4
Xylene (total)		2.4	J	0.15	1.4
Bromoform		1.4	U	0.13	1.4
1,1,2,2-Tetrachloro	athane	1.4	U	0.13	1.4
4-Ethyltoluene	Su ici iC	0.45	J	0.32	1.4
1,3,5-Trimethylbenz	rene	0.43	J	0.35	1.4
,,o,o ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		0.04	3	3.55	1.7
Analyte		Result (u		ualifier MDL	RL
Dichlorodifluoromet	hane	2,8	J	1.3	17

Job Number: 200-8242-1

Sdg Number: 200-8242

Client Sample ID:

SV-02

Lab Sample ID:

200-8242-11

Client Matrix:

Air

Date Sampled: 11/15/2011 1627

	то	-15 Volatile Organic	Compounds	in Ambient Ai	r		
Analysis Method:	TO-15	Analysis Batch:	200-29662		rument ID:	B.i	
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab	File ID:	bkin016.d	
Dilution:	6.9			Initia	al Weight/Volume:	29 mL	
Analysis Date:	11/28/2011 2227			Fina	al Weight/Volume:	200 mL	
Prep Date:	11/28/2011 2227		1.	Inje	ction Volume:	200 mL	
Analyte		Result (u	a/m3)	Qualifier	MDL	RL	
1.2-Dichlorotetrafluo	proethane	9.6	3 ,	U	1.5	9.6	
Vinyl chloride		3.5		Ū	0.51	3.5	
1,3-Butadiene		3.1		Ü,	0.15	3.1	
Bromomethane		5.4		U	0.32	5.4	
Chloroethane		9.1		Ü	0.29	9.1	
Bromoethene(Vinyl	Bromide)	6.0		Ü	0.57	6.0	
Trichlorofluorometha		1.5		j	1.3	7.8	
1,1-Dichloroethene	W11-W	5.5		Ü	0.82	5.5	
3-Chloropropene		11		Ü	0.41	11	
Methylene Chloride		1.7		U BY	0.34 1.7	12	
Methyl tert-butyl eth		5.0		U	0.40	5.0	
trans-1,2-Dichloroet		5.5		Ü	0.88	5.5	
n-Hexane	illerie	1.3		j	0.63	4.9	
1,1-Dichloroethane		8.4		Ü	0.98	5.6	
cis-1,2-Dichloroethe	ane.	3.3		J	0.38	5.5	
1,2-Dichloroethene,		3.3		J	0.38	5.5	
Chloroform	IOlai	6.7		U	1.0	6.7	
		110		U	1.3	7.5	
1,1,1-Trichloroethar	ie	2.0		J	0.93	4.8	
Cyclohexane		8.7		Ü	1.4	8.7	
Carbon tetrachloride		6.4		U	1.2	6.4	
2,2,4-Trimethylpent	ane				0.40	4.4	
Benzene		1.7		N J	0.40	5.6	
1,2-Dichloroethane		5.6			0.28	5.7	
n-Heptane		2.5		J			
Trichloroethene	-	32			1.1	7.4 6.4	
1,2-Dichloropropane		6.4		U	0.45	9.2	
Bromodichlorometh		9.2		U	1.3		
cis-1,3-Dichloroprop	pene	6.3		U	0.50	6.3	
Toluene		4.9		J	0.47	5.2	
trans-1,3-Dichloropi		6.3		U	0.63	6.3	
1,1,2-Trichloroethar	ne	7.5		U	0.72	7.5	
Tetrachloroethene		900			0.51	9.4	
Dibromochlorometh		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-Tetrachloroe	ethane	9.5		U	1.9	9.5	
4-Ethyltoluene		2.2		J	1.6	6.8	
1,3,5-Trimethylbenz	rene	3.1		J	1.7	6.8	

Job Number: 200-8242-1

Sdg Number: 200-8242

Client Sample ID:

SV-03

Lab Sample ID:

200-8242-12

Client Matrix:

Air

Date Sampled: 11/15/2011 1628 Date Received: 11/17/2011 1010

TO-15 Volatile	Organic	Compounds	in	Ambient Air
10-10 Volatile	Uluallic	Colliboulius	***	WILL WILL WILL

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	r rep baton.	1477	Initial Weight/Volume:	33 mL
	11/28/2011 2320			Final Weight/Volume:	200 mL
Analysis Date:	11/28/2011 2320			Injection Volume:	200 mL
Prep Date:	11/20/2011 2320			injection volume.	200 1112
Analyte		Result (p	pb v/v) Qu	alifier MDL	. RL
Dichlorodifluorome	ethane	0.55	J	0.23	3.0
1,2-Dichlorotetraflu	uoroethane	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(Viny	/I Bromide)	1.2	U	0.12	1.2
Trichlorofluoromet	hane	1.2	U	0.21	1.2
1,1-Dichloroethene	е	1.2	U	0.18	1.2
3-Chloropropene		3.0	U	0.12	3.0
Methylene Chlorid	le .	0.60	<u>ع</u> لا	0.079 ,6	3.0
Methyl tert-butyl et		1.2	U	0.097	1.2
trans-1,2-Dichloro	ethene	1.2	U	0.19	1.2
n-Hexane		0.28	j	0.16	1.2
1,1-Dichloroethane	e	0.22	J	0.21	1.2
cis-1,2-Dichloroeth		1.2	U	0.085	1.2
1,2-Dichloroethen		1.2	U	0.085	1.2
Chloroform	-,	1.2	U	0.19	1.2
1,1,1-Trichloroetha	ane	5.2		0.21	1.2
Cyclohexane		1.2	U	0.24	1.2
Carbon tetrachlori	de	1,2	U	0.20	1.2
2,2,4-Trimethylper		1.2	U	0.22	1.2
Benzene		0.37	J	0.11	1.2
1,2-Dichloroethane	e	1.2	ı U	0.19	1.2
n-Heptane		0.35	J	0.061	1.2
Trichloroethene		4.0		0.18	1.2
1,2-Dichloropropa	ne	1.2	U	0.085	1.2
Bromodichloromet		1.2	U	0.17	1.2
cis-1,3-Dichloropro		1.2	U	0.097	1.2
Toluene	•	1.1	J	0.11	1.2
trans-1,3-Dichloro	propene	1.2	U	0.12	1.2
1,1,2-Trichloroetha		1.2	U	0.12	1.2
Tetrachloroethene		130		0.067	1.2
Dibromochlorome		1.2	U	0.13	1.2
1,2-Dibromoethan		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-Tetrachlor	oethane	1.2	Ŭ	0.24	1.2
4-Ethyltoluene		1.2	Ü	0.28	1.2
1,3,5-Trimethylber	nzene	1.2	Ű	0.31	1.2
.,.,.	•				
		5 . " .		-UC MDI	DI.

Analyte

Result (ug/m3)

2.7

MDL

1.1

Qualifier

RL

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

Client Matrix:

Air

Date Sampled: 11/15/2011 1628

Date Received: 11/17/2011 1010

Analysis Method: TO-15 Surma Canister Prep Batch: N/A		Te	D-15 Volatile Organic	Compounds	in Ambient Air	11		
1.2-Dichlorotetrafluoroethane	Prep Method: Dilution: Analysis Date:	Summa Canister 6.06 11/28/2011 2320	•		Lab Initia Fina	File ID: al Weight/Volume: al Weight/Volume:	bkin017.d 33 mL 200 mL	
Vinly chloride 3.1 U 0.45 3.1 1,3-Butacliene 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 Trichloroflucromethane 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 JBC 0.27 4.8 3-Chloropropene 4.4 U 0.35 4.4 Methylene Chloride 2.1 JBC 0.27 4.8 3-Chloropropene 4.4 U 0.35 4.4 Methylene Chloride 2.1 JBC 0.27 4.8 N-Hexane 1.0 J 0.56 4.3 1,1-Dichloroethene 4.8 U 0.34 4.8 </td <td>Analyte</td> <td></td> <td>Result (u</td> <td>g/m3)</td> <td>Qualifier</td> <td>MDL</td> <td>RL</td> <td></td>	Analyte		Result (u	g/m3)	Qualifier	MDL	RL	
1,3-Butadiene	1,2-Dichlorotetraflu	oroethane	8.5		U	1.4	8.5	
Bromomethane	Vinyl chloride		3.1		U	0.45	3.1	
Chloroethane 8.0 U 0.26 8.0 Bromoethene(Vinyl Bromide) 5.3 U 0.50 5.3 Trichlorofucromethane 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 0.27 111 Methylene Chloride 2.1 JB 0.27 111 Methylene Chloride 4.8 U 0.77 4.8 Hethylene Chloride 4.8 U 0.77 4.8 Hethylene Chloride 4.8 U 0.77 4.8 Hethylene Chloride 4.8 U 0.34 4.8 1,1-Dichloroethene 0.90 J 0.86 4.9 1,2-Dichloroethene 7.6 U 0.34 4.8 Chloroform 5.9 U 0.92 5.9 1,1-I-Trichloroethane 7.6 U 1.0	1,3-Butadiene		2.7		U	0.13	2.7	
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** 0.27** 11 Methylene Chloride 2.1 JB** 0.27** 11 Methylene Chloride 2.1 JB** 0.27** 11 Methylene Chloride 4.4 U 0.35 4.4 Itams-1,2-Dichloroethene 4.8 U 0.77 4.8 n-Hexane 1.0 J 0.56 4.3 1,1-Dichloroethane 4.8 U 0.34 4.8 1,2-Dichloroethane 4.8 U 0.34 4.8 1,1,1-Trichloroethane 2.8 1.2 6.6 Cyclohaxane 4.2 U 0.81 4.2 Carbon tetrachloride 7.8 U 1.3 <td< td=""><td>Bromomethane</td><td></td><td>4.7</td><td></td><td>U</td><td>0.28</td><td>4.7</td><td></td></td<>	Bromomethane		4.7		U	0.28	4.7	
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 0.27 1.1 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, Total 4.8 U 0.34 4.8 1,2-Dichloroethene, Total 4.8 U 0.34 4.8 1,1,1-Trichloroethane 2.9 U 0.92 5.9 1,1,1-Trichloroethane 2.8 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 4.9 U 0.76	Chloroethane		8.0		U 🤈	0.26	8.0	
1,1-Dichloroethene 4.8 U 0.72 4.8 3-Chloropropene 9.5 U 0.36 9.5 Methylene Chloride 2.1 JB** O.28** Z. 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, Total 4.8 U 0.34 4.8 1,2-Dichloroethene, Total 4.8 U 0.34 4.8 1,2-Dichloroethene, Total 4.8 U 0.34 4.8 1,2-Dichloroethene, Total 4.8 U 0.34 4.8 1,1-Trichloroethene, Total 4.8 U 0.34 4.8 Cyclohexane 4.2 U 0.81 4.2 Cyclohexane 4.2 U 0.81 4.2 Cyclohexane 4.2 U 0.81 4.2 Cyclohexane 1.2 U 0.81 4.2 </td <td>Bromoethene(Vinyl</td> <td>Bromide)</td> <td>5.3</td> <td></td> <td>U</td> <td>0.50</td> <td>5.3</td> <td></td>	Bromoethene(Vinyl	Bromide)	5.3		U	0.50	5.3	
3-Chloropropene 9.5 U 0.36 9.5 Methylene Chloride 2.1	Trichlorofluorometh	ane	6.8		U	1,2	6.8	
Methylene Chloride 2.1 JB U 0.27 2. 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, Total 4.8 U 0.34 4.8 Chloroform 5.9 U 0.92 5.9 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 Trichioroethane 2.1 0.98 6.5 1,2-Dich	1,1-Dichloroethene		4.8		U	0.72	4.8	
Methyl tert-butyl ether trans-1,2-Dichloroethene 4.4 U 0.35 4.4 trans-1,2-Dichloroethene 4.8 U 0.77 4.8 n,1-Dichloroethane 0.90 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 Cyclohexane 4.2 U 0.81 4.2 Carbon tetrachloride 7.6 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	3-Chloropropene		9.5		U	0.36	9.5	
Methyl tert-butyl ether trans-1,2-Dichloroethene 4.4 U 0.35 4.4 trans-1,2-Dichloroethene 4.8 U 0.77 4.8 n,1-Dichloroethane 0.90 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 Cyclohexane 4.2 U 0.81 4.2 Carbon tetrachloride 7.6 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	Methylene Chloride		2.1		TB()	0.27 2 . (11	
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 cls-1,2-Dichloroethene 4.8 U 0.34 4.8 1,2-Dichloroethene, Total 4.8 U 0.34 4.8 Choroform 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 Trichloroethane 2.1 0.98 6.5 1,2-Dichloropropane 5.6 U 0.39 5.6 Bromodichloromet	Methyl tert-butyl eth	ner	4.4			,	4.4	
n-Hexane 1.0 J 0.56 4.3 1,1-Dichloroethane 0.90 J 0.86 4.9 cis-1,2-Dichloroethane 4.8 U 0.34 4.8 1,2-Dichloroethane, 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 Trichloroethane 21 0.98 6.5 1,2-Dichloropropane 5.6 U 0.39 5.6 Bromodichloromethane 8.1 U 0.4 5.5 Toluene 4.2 J 0.41 4.6 trans-1,3-Dichloropropane 5			4.8		U	0.77	4.8	
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-Dichloropthane 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 0.63 6.6 1,1,2-Trichloroethane	n-Hexane		1.0		J	0.56	4.3	
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 Trichloroethane 2.1 0.98 6.5 1,2-Dichloropropane 5.6 U 0.39 5.6 Bromodichloromethane 8.1 U 0.4 5.5 Tollene 4.2 J 0.41 4.6 trans-1,3-Dichloropropene 5.5 U 0.63 6.6 Tetrachloroethane 6.6 U 0.63 6.6 Tetrachloroethane 9.3 U 0.84 9.3 Ethylbenzene 1.4	1,1-Dichloroethane		0.90		J	0.86	4.9	
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 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 1.4	cis-1,2-Dichloroethe	ene	4.8		U	0.34	4.8	
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 0.39 5.6 Bromodichloropropene 5.5 U 0.44 5.5 Tolluene 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 Tetrachloroethane 10 U 1.1 10 1,2-Dibromoethane 9.3 U 0.84 9.3 Ethylbenzene <td< td=""><td>1,2-Dichloroethene,</td><td>Total</td><td>4.8</td><td></td><td>U</td><td></td><td>4.8</td><td></td></td<>	1,2-Dichloroethene,	Total	4.8		U		4.8	
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 0.39 5.6 Bromodichloropropene 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 0.84 9.3 Ethylbenzene 1.4 J 0.58 5.3 m,p-Xylene 1.8<	Chloroform		5.9		U	0.92	5.9	
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 3.8 J 0.58 5.3 m,p-Xylene <t< td=""><td>1,1,1-Trichloroethar</td><td>ne</td><td>28</td><td></td><td></td><td>1.2</td><td>6.6</td><td></td></t<>	1,1,1-Trichloroethar	ne	28			1.2	6.6	
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 3.8 J 0.58 5.3 m,p-Xylene <t< td=""><td>Cyclohexane</td><td></td><td>4.2</td><td></td><td>U</td><td>0.81</td><td>4.2</td><td></td></t<>	Cyclohexane		4.2		U	0.81	4.2	
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	Carbon tetrachloride	е	7.6			1.3	7.6	
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	2,2,4-Trimethylpent	ane	5.7		U	1.0	5.7	
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			1.2		J	0.35	3.9	
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	1,2-Dichloroethane		4.9		U	0.76	4.9	
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	n-Heptane		1.4		J	0.25	5.0	
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	Trichloroethene		21			0.98	6.5	
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	1,2-Dichloropropane	е	5.6		U	0.39	5.6	
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	Bromodichlorometh	ane	8.1		U	1.1	8.1	
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	cis-1,3-Dichloroprop	oene	5.5		U	0.44	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	Toluene		4.2		J	0.41	4.6	
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	trans-1,3-Dichloropi	ropene	5.5		U	0.55	5.5	
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	1,1,2-Trichloroethar	ne	6.6		U	0.63	6.6	
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	Tetrachloroethene		890			0.45	8.2	
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	Dibromochlorometh	ane	10		U	1.1	10	
m,p-Xylene 3.8 J 1.3 13 Xylene, o- 1.8 J 0.58 5.3	1,2-Dibromoethane		9.3		U	0.84	9.3	
Xylene, o- 1.8 J 0.58 5.3	Ethylbenzene		1.4		J	0.58	5.3	
Xylene, o- 1.8 J 0.58 5.3	m,p-Xylene	•	3.8		J	1.3	13	
					J			
Ayrene (setal)	Xylene (total)		5.5			0.58	5.3	
Bromoform 13 U 1.2 13					U			
1,1,2,2-Tetrachloroethane 8.3 U 1.7 8.3	1,1,2,2-Tetrachloroe	ethane	8.3				8.3	

U

1.4

1.5

6.0

6.0

6.0

6.0

1,3,5-Trimethylbenzene

4-Ethyltoluene

Job Number: 200-8242-1

Sdg Number: 200-8242

Client Sample ID:

SV-04

Lab Sample ID:

200-8242-13

Client Matrix:

Air

Date Sampled: 11/15/2011 1628

A continue to A district	TO 45	Amplusia Balaki	200 20662	Instrument ID:	B.i
Analysis Method:	TO-15	Analysis Batch:	200-29662	Lab File ID:	bkin018.d
Prep Method:	Summa Canister	Prep Batch:	N/A		
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 (p	pb v/v) Qu	alifier MDL	RL
Dichlorodifluoromet	hane	6.8	J	1.9	25
1,2-Dichlorotetraflu	oroethane	10	υ	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
Trichlorofluorometh	ane	2.5	J	1.7	10
1,1-Dichloroethene		10	υ	1.5	10
3-Chioropropene		25	U	0.95	25
Methylene Chloride		3.0	₽لد		
Methyi tert-butyl eth	er	10	U	0.80	10
rans-1,2-Dichloroe	thene	10	· U	1.6	10
n-Hexane		10	U	1.3	10
1,1-Dichloroethane		10	U	1.7	10
cis-1,2-Dichloroethe	ene	10	U	0.70	10
1,2-Dichloroethene	Total	, 10	U	0.70	10
Chloroform		10	U	1.5	10
1,1,1-Trichloroetha	ne	110		1.7	10
Cyclohexane		10	U	1.9	10
Carbon tetrachlorid	е	10	U	1.6	10
2,2,4-Trimethylpent	ane	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-Dichloropropan	е	10	U	0.70	10
Bromodichlorometh	ane	10	U	1.4	10
cis-1,3-Dichloropro	pene	10	U	0.80	10
Toluene		3.4	J	0.90	10
trans-1,3-Dichlorop	ropene	10	υ	1.0	10
1,1,2-Trichloroetha		10	υ	0.95	10
Tetrachloroethene		1100		0.55	10
Dibromochlorometh	nane	10	U	1.0	10
1,2-Dibromoethane		10	U	0.90	120 10
Ethylbenzene		10	υ	1.1	10
n,p-Xylene		25	U	2.4	25
Kylene, o-		10	U	1.1	10
Xylene (total)		10	U	1.1	10
Bromoform		10	U	0.95	10
1,1,2,2-Tetrachioro	ethane	10	U	2.0	10
4-Ethyltoluene		10	U	2.3	10
1,3,5-Trimethylben:	zene	10	U	2.5	10
Analyte		Result (u	a/m3) Ou	alifier MDL	RL
Analyte		34	g/113) Qu	9.4	120

Job Number: 200-8242-1

Sdg Number: 200-8242

Client Sample iD:

SV-04

Lab Sample ID:

200-8242-13

Client Matrix:

Date Sampled: 11/15/2011 1628

	TO-16 Volatile Organic	Compounds in	Ambient Air	
5	Analysis Batch	200-29662	Instrument ID:	

Analysis Method: Prep Method: Dilution: Analysis Date: Prep Date:	TO-15 Summa Canister 49.9 11/29/2011 0012 11/29/2011 0012	Analysis Batch: Prep Batch:	200-29662 N/A	L li F	nstrument ID: ab File ID: nitial Weight/Volume: inal Weight/Volume: njection Volume:	B.i bkin018.d 78 mL 200 mL 200 mL	
1 top Bato.					•		
Analyte		Result (u	g/m3)	Qualifier	MDL	RL	
1,2-Dichlorotetraflu	oroethane	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		44		U	4.1	44	
Trichlorofluorometh	ane	14		J	9.5	56	
1,1-Dichloroethene		40		U	5.9	40	
3-Chioropropene		78		U	3.0	78	
Methylene Chloride		11		ال كالد	2.8	87	
Methyl tert-butyl eth		36		U	2.9	36	
trans-1,2-Dichloroe	thene	40		U	6.3	40	
n-Hexane		35		U	4.6	35	
1,1-Dichloroethane		40		U	7.1	40	
cis-1,2-Dichloroethe		40		U	2.8	40	
1,2-Dichloroethene,	Total	40		U	2.8	40	
Chloroform		49		U	7.6	49	
1,1,1-Trichloroethar	ne	610			9.5	54	
Cyclohexane		34		U	6.7	34	
Carbon tetrachlorid		63		U	10	63	
2,2,4-Trimethylpent	ane	47		U	8.4	47	
Benzene		32		U	2.9	32 40	
1,2-Dichloroethane		40		U	6.3	40 41	
n-Heptane		41		U	2.0		
Trichloroethene		540			8.0	54 46	
1,2-Dichloropropan		46		U	3.2		
Bromodichlorometh		67		U	9.4	67 45	
cis-1,3-Dichloroprop	pene	45		U	3.6	38	
Toluene		13		J	3.4	36 45	
trans-1,3-Dichlorope		45		U U	4.5 5.2	45 54	
1,1,2-Trichloroethar	ie	54 7500		U	3.7	68	
Tetrachloroethene	ana	7500 85		υ	3.7 8.9	85	
Dibromochlorometh		77		U	6.9	77	
1,2-Dibromoethane		43		U	4.8	43	
Ethylbenzene		110		Ü	10	110	
m,p-Xylene		43		U	4.8	43	
Xylene, o-		43		U	4.8	43	
Xylene (total) Bromoform		100		U	9.8	100	
1,1,2,2-Tetrachloro	athana	69		υ	14	69	
4-Ethyltoluene	su iai 1 5	49		U	11	49	
4-PHVIIDHI@DE		43			1.1		

Job Number: 200-8242-1

Sdg Number: 200-8242

Client Sample iD:

SV-05

Lab Sample ID:

200-8242-14

Client Matrix:

Air

Date Sampled: 11/15/2011 1629

Date Received: 11/17/2011 1010

200

Analysis Mashadi	TO 15	Apolysia Betch	200 20662	Instrument	ID:	р;	
Analysis Method:	TO-15 Summa Canister	Analysis Batch:	200-29662 N/A	Instrument Lab File ID		B.i bkin019.d	
Prep Method:		Prep Batch:	N/A				
Dilution:	80 11/29/2011 0104			_	ht/Volume:	48 mL	
Analysis Date:				Final Weig		200 mL	
Prep Date:	11/29/2011 0104			Injection V	olume:	200 mL	
Analyte		Result (p	ob v/v) Q	ualifier !	MDL	RL	
Dichlorodifluorometh	nane	40	U		3.0	40	
1,2-Dichlorotetrafluo	roethane	16	U	2	2.6	16	
Vinyl chloride		16	U	2	2.3	16	
1,3-Butadiene		16	U		0.80	16	
Bromomethane		16	U	(0.96	16	
Chloroethane		40	U	1	1.3	40	
Bromoethene(Vinyl	Bromide)	16	Ū	1	1.5	16	
Trichlorofluorometha	•	16	U		2.7	16	
1,1-Dichloroethene		16	Ū		2.4	16	
3-Chloropropene		40	U	1	1.5	40	
Methylene Chloride		4.8	المع	BU :	HO 4.8	40	
Methyl tert-butyl eth	er	16	์ บ		1.3	16	
rans-1,2-Dichloroet		16	Ū		2.6	16	
n-Hexane		16	U		2.1	16	
1,1-Dichloroethane		16	υ	2	2.8	16	
cis-1,2-Dichloroethe	ne	2.3	J	1	.1	16	
1,2-Dichloroethene,		2.3	J	1	.1	16	
Chloroform		16	Ū		2.5	16	
,1,1-Trichloroethan	e	75			2.8	16	
Cyclohexane		16	U		3.1	16	
Carbon tetrachloride)	16	Ū		2.6	16	
2,2,4-Trimethylpenta		16	Ű		2.9	16	
Benzene		16	Ü		.4	16	
1,2-Dichloroethane		16	Ü		2.5	16	
n-Heptane		16	Ü		80	16	
richloroethene		31	J		2.4	16	
,2-Dichloropropane	•	16	U		 .1	16	
,z-Dichloropropane Bromodichlorometha		16	U		2.2	16	
siomodichlorometh sis-1,3-Dichloroprop		16	U		.3	16	
	CIIC	16	U		.3 .4	16	
Foluene	onene	16	U		. 4 .6	16	
rans-1,3-Dichloropr	•	16	U		.6 .5	16	
I,1,2-Trichloroethan Fetrachloroethene	C		U				
	***	1900).88 .7	16 16	
Dibromochlorometha	31 IC	16 16	U		.7		
,2-Dibromoethane			U		.4	16 16	
Ethylbenzene		16	ບ - ບ		.8	16 40	
n,p-Xylene		40	-		8.8	40 46	
(ylene, o-		16	U		.8	16	
(ylene (total)		16	U		.8	16	
Bromoform		16	U		.5	16	
1,1,2,2-Tetrachloroe	thane	16	U		.2	16	
I-Ethyltoluene		16	U		.7	16	
1,3,5-Trimethylbenze	ene	16	υ	4	.1	16	

Job Number: 200-8242-1

Sdg Number: 200-8242

Cilent Sample ID:

SV-05

Lab Sample ID:

200-8242-14

Client Matrix:

Air

Date Sampled: 11/15/2011 1629

Date Received: 11/17/2011 1010

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 (u	g/m3)	Qualifie	r MDL	RL
1,2-Dichlorotetraflu	oroethane	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
Trichlorofluorometh	ane	90		U	15	90
1,1-Dichloroethene		63		U	9.5	63
3-Chloropropene		130		U	4.8	130
Methylene Chloride	•	17		JB U	3.8	140
Methyl tert-butyl eth	ner	58		U	4.6	58
trans-1,2-Dichloroe	thene	63		υ	10	63
n-Hexane		56		U	7.3	56
1,1-Dichloroethane		65		U	11	65
cis-1,2-Dichloroethe	ene	9,0		J	4.4	· 63
1,2-Dichloroethene	, Total	9.0		J	4.4	63
Chloroform		78		U	12	78
1,1,1-Trichloroetha	ne	410			15	87
Cyclohexane		55		U	11	55
Carbon tetrachlorid	е	100		U	17	100
2,2,4-Trimethylpent	ane	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-Dichloropropan	e	74		U	5.2	74
Bromodichlorometh		110		U	15	110
cis-1,3-Dichloropro	pene	73		υ	5.8	73
Toluene	•	60		υ	5.4	60
trans-1,3-Dichlorop	ropene	73		υ	7.3	73
1,1,2-Trichloroetha	•	87		υ	8.3	87
Tetrachloroethene		13000			6.0	110

TO-15 Voiatile Organic Compounds in Ambient Air

υ

U

U

U

U

U

U

U

U

14

11

7.6

17

7.6

7.6

16

22

18

20

140

120

69

170

69

69

170

110

79

79

140

120

69

170

69

69

170

110

79

79

1,1,2,2-Tetrachloroethane

1,3,5-Trimethylbenzene

Dibromochloromethane

1,2-Dibromoethane

Ethylbenzene

Xylene (total)

4-Ethyltoluene

Bromoform

m,p-Xylene

Xylene, o-

Job Number: 200-8242-1

Sdg Number: 200-8242

Client Sample ID:

IA-01

Lab Sample ID:

200-8242-1

Client Matrix:

Air

Date Sampled: 11/15/2011 1536

nalysis Method:	TO15 LL	Analysis Batch:	200-29652	Instrument ID:	E.i
rep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eeqc010.d
ilution:	4.0			Initial Weight/Volume:	125 mL
nalysis Date:	11/28/2011 1710			Final Weight/Volume:	500 mL
rep Date:	11/28/2011 1710			Injection Volume:	500 mL
•				•	
nalyte		Result (p	pb v/v) Qua	ilifier MDL	RL
ichlorodifluoromet	hane	0.55		0.040	0.040
2-Dichlorotetrafluo	oroethane	0.040	U	0.040	0.040
nyl chloride		0.080	U	0.080	0.080
3-Butadiene		0.080	U	0.080	0.080
romomethane		0.080	U	0.080	0.080
hloroethane		0.080	U	0.080	0.080
romoethene(Vinyl	Bromide)	0.080	U	0.080	0.080
ichlorofluorometh	*	0.22		0.040	0.040
1-Dichloroethene		0.040	U	0.040	0.040
Chloropropene		0.080	U	0.080	0.080
lethylene Chloride	1	0.40	Ü	0.40	0.40
ethyl tert-butyl eth		0.040	Ū	0.040	0.040
ans-1,2-Dichloroe		0.040	Ū	0.040	0.040
-Hexane		0.19	•	0.080	0.080
1-Dichloroethane		0.040	υ	0.040	0.040
s-1,2-Dichloroethe	ene	0.040	ΰ	0.040	0.040
s-1,2-Dichloroethe hloroform	J. 10	0.040	Ü	0.040	0.040
	20	0.040		0.040	0.040
1,1-Trichloroetha	ic	0.041		0.040	0.040
/clohexane	•	0.097		0.040	0.040
arbon tetrachlorid		0.067		0.040	0.040
2,4-Trimethylpent	ane			0.040	0.040
nzene		0.31			0.040
2-Dichloroethane		0.080	U	0.080	
Heptane		0.13		0.040	0.040
richloroethene		0.094		0.040	0.040
2-Dichloropropan		0.080	U	0.080	0.080
romodichlorometh		0.040	U	0.040	0.040
s-1,3-Dichloroproj	pene	0.040	υ	0.040	0.040
oluene		1.1		0.040	0.040
ans-1,3-Dichlorop	ropene	0.040	υ	0.040	0.040
1,2-Trichloroethai	ne	0.040	U	0.040	0.040
etrachloroethene		0.68		0.040	0.040
ibromochlorometh	nane	0.040	υ	0.040	0.040
2-Dibromoethane		0.040	U	0.040	0.040
thylbenzene		0.096		0.040	0.040
Xylene		0.095		0.040	0.040
romoform		0.040	U	0.040	0.040
1,2,2-Tetrachloro	ethane	0.040	υ	0.040	0.040
Ethyltoluene		0.040	υ	0.040	0.040
3,5-Trimethylben	zene	0.080	Ü	0.080	0.080
2-Dichloroethene		0.040	Ü	0.040	0.040
,2-Dichloroetherie n-Xylene & p-Xyler		0.30	3	0.040	0.040
ylenes, Total		0.39		0.040	0.040
,					
nalyte		Result (u	ng/m3) Ous	alifier MDL	RL

Job Number: 200-8242-1

Sdg Number: 200-8242

Cilent Sample ID:

IA-01

Lab Sample ID:

200-8242-1

Client Matrix:

Air

Date Sampled: 11/15/2011 1536

	TO15 LL Volat	ile Organic Compounds	in Ambient Air	r, Low Conc	entration (GC/MS)		
Analysis Method:	TO15 LL	Analysis Batch:	200-29652	ins	strument ID:	E.i	
Prep Method:	Summa Canister	Prep Batch:	N/A	La	b File ID:	eeqc010.d	
Dilution:	4.0			Ini	tial Weight/Volume:	125 mL	
Analysis Date:	11/28/2011 1710			Fir	nal Weight/Volume:	500 mL	
Prep Date:	11/28/2011 1710			Inje	ection Volume:	500 mL	
•				•			
Analyte		Result (u	g/m3)	Qualifier	MDL	RL	
,2-Dichlorotetraflu	oroethane	0.28		U	0.28	0.28	
/inyl 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	
richlorofluorometh	ane	1.3			0.22	0.22	
,1-Dichloroethene		0.16		U	0.16	0.16	
-Chioropropene		0.25		U	0.25	0.25	
Methylene Chloride	•	1.4		U	1.4	1.4	
/lethyl tert-butyl eth		0.14		U	0.14	0.14	
rans-1,2-Dichloroe		0.16		U	0.16	0.16	
-Hexane		0.69			0.28	0.28	
,1-Dichloroethane		0.16		U	0.16	0.16	
is-1,2-Dichloroethe		0.16		U	0.16	0.16	
Chloroform		0.20		Ū	0.20	0.20	
,1,1-Trichloroethar	ne	0.23			0.22	0.22	
Cyclohexane		0.33			0.14	0.14	
Carbon tetrachloride	e	0.42			0.25	0.25	
2,2,4-Trimethylpent		0.68			0.19	0.19	
Benzene		0.99			0.13	0.13	
,2-Dichloroethane		0.32		U	0.32	0.32	
-Heptane		0.51	4.2	Ū	0.16	0.16	
richloroethene		0.50	3.7		0.21	0.21	
,2-Dichloropropand	a	0.37		U	0.27	0.37	
,2-Dictiloropropani Bromodichlorometh		0.37		U	0.27	0.37	
sis-1,3-Dichloroprop		0.27		U	0.27	0.27	
	oci ic	4.3		J	0.15	0.15	
Foluene	ronono	4.3 0.18		U	0.18	0.15	
rans-1,3-Dichlorop	•						
,1,2-Trichloroethar	IC	0.22		U	0.22	0.22	
etrachloroethene		4.6		11	0.27	0.27	
Dibromochlorometh		0.34		U	0.34	0.34	
,2-Dibromoethane		0.31		U	0.31	0.31	
thylbenzene		0.41			0.17	0.17	
-Xylene		0.41			0.17	0.17	
Bromoform		0.41		U	0.41	0.41	
,1,2,2-Tetrachloroe	ethane	0.27		U	0.27	0.27	
-Ethyltoluene		0.20		U	0.20	0.20	
,3,5-Trimethylbenz		0.39		U	0.39	0.39	
,2-Dichloroethene,		0.16		U	0.16	0.16	
n-Xylene & p-Xylen	ne	1.3			0.17	0.17	
Kylenes, Total		1.7			0.17	0.17	

Job Number: 200-8242-1

Sdg Number: 200-8242

Ciient Sampie iD:

IA-02

Lab Sample ID:

200-8242-4

Client Matrix:

Air

Date Sampled: 11/15/2011 1539

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	
riep Date.	11/20/2011 1004			mjodaon votamo.		
nalyte		Result (p	pb v/v) Qualif	ier MDL	RL	
Dichlorodifluoromet	hane	0.50		0.040	0.040	
,2-Dichlorotetraflu		0.040	U	0.040	0.040	
/inyl chloride		0.080	U	0.080	0.080	
,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	
romoethene(Vinyl	Bromide)	0.080	U	0.080	0.080	
richlorofluorometh	•	0.24		0.040	0.040	
,1-Dichloroethene		0.040	U	0.040	0.040	
-Chloropropene		0.080	U	0.080	0.080	
Nethylene Chloride		0.40	U	0.40	0.40	
nethyl tert-butyl eth		0.040	U	0.040	0.040	
ans-1,2-Dichloroe		0.040	U	0.040	0.040	
-Hexane	•	0.22		0.080	0.080	
.1-Dichloroethane		0.040	U	0.040	0.040	
is-1,2-Dichloroethe		0.040	U	0.040	0.040	
hioroform		0.040	U	0.040	0.040	
,1,1-Trichloroetha	ne	0.040	υ	0.040	0.040	
Cyclohexane		0.11		0.040	0.040	
Carbon tetrachlorid	e	0.069		0.040	0.040	
2,2,4-Trimethylpent		0.11		0.040	0.040	
Benzene		0.32		0.040	0.040	
,2-Dichloroethane		0.080	U	0.080	0.080	
-Heptane		0.15		0.040	0.040	
richloroethene		0.074		0.040	0.040	
,2-Dichloropropan	e	0.080	Ú	0.080	0.080	
Bromodichlorometh		0.040	U	0.040	0.040	
is-1,3-Dichloropro		0.040	U	0.040	0.040	
Foluene		1.3		0.040	0.040	
rans-1,3-Dichlorop	ropene	0.040	U	0.040	0.040	
1,1,2-Trichloroetha		0.040	U	0.040	0.040	
Tetrachloroethene		0.58		0.040	0.040	
Dibromochlorometh	nane	0.040	U	0.040	0.040	
I,2-Dibromoethane		0.040	U	0.040	0.040	
Ethylbenzene		0.094		0.040	0.040	
-Xylene		0.11		0.040	0.040	
Bromoform		0.040	U	0.040	0.040	
I,1,2,2-Tetrachloro	ethane	0.040	U	0.040	0.040	
I-Ethyltoluene	10	0.040	U	0.040	0.040	
I,3,5-Trimethylben	zene	0.080	U	0.080	0.080	
1,2-Dichloroethene		0.040	, U	0.040	0.040	
n-Xylene & p-Xyle		0.31		0.040	0.040	
Xylenes, Total		0.42		0.040	0.040	
		5 • 1	interest Occupit	Soc MDt	RL	
Analyte		Result (ug/m3) Quali	fier MDL	0.20	

Job Number: 200-8242-1

Sdg Number: 200-8242

Client Sample iD:

IA-02

Lab Sample ID:

200-8242-4

Client Matrix:

Air

Date Sampled: 11/15/2011 1539

	TO15 LL Volat	lie Organic Compounds	in Ambient Air, I	Low Concent	ration (GC/MS)		
Analysis Method:	TO15 LL	Analysis Batch:	200-29652	Instru	ment ID:	E.i	
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab Fi	ile ID:	eeqc011.d	
Dilution:	4.0			Initial '	Weight/Volume:	125 mL	
Analysis Date:	11/28/2011 1804				Weight/Volume:	500 mL	
Prep Date:	11/28/2011 1804				on Volume:	500 mL	
Analyte		Result (u		Qualifier	MDL	RL	
1,2-Dichlorotetraflu	oroethane	0.28	· ·		0.28	0.28	
Vinyl chloride		0.20	L		0.20	0.20	
1,3-Butadiene		0.18	ι		0.18	0.18	
Bromomethane		0.31	į.		0.31	0.31	
Chloroethane		0.21	L		0.21	0.21	
Bromoethene(Vinyl		0.35	ι	J	0.35	0.35	
Trichlorofluorometh	ane	1.3	1	_	0.22	0.22	
1,1-Dichloroethene		0.16	L		0.16	0.16	
3-Chloropropene		0.25	Ĺ		0.25	0.25	
Methylene Chloride		1.4	L		1.4	1.4	
Methyl tert-butyl eth		0.14	L		0.14	0.14	
trans-1,2-Dichloroel	hene	0.16	L.	J	0.16	0.16	
n-Hexane		0.77			0.28	0.28	
1,1-Dichloroethane		0.16	L	J	0.16	0.16	
cis-1,2-Dichloroethe	ene	0.16	u	J	0.16	0.16	
Chioroform		0.20	U	J	0.20	0.20	
1,1,1-Trichloroethar	ne	0.22	U	J	0.22	0.22	
Cyclohexane		0.38			0.14	0.14	
Carbon tetrachloride	•	0.44			0.25	0.25	
2,2,4-Trimethylpenta	ane	0.50			0.19	0.19	
Benzene		1.0			0.13	0.13	
1,2-Dichloroethane		0.32	_{jet} U	l	0.32	0.32	
n-Heptane		0.60			0.16	0.16	
Trichloroethene		0.40			0.21	0.21	
1,2-Dichloropropane	9	0.37	U	i e	0.37	0.37	
Bromodichlorometha	ane	0.27	U	1	0.27	0.27	
cis-1,3-Dichloroprop	ene	0.18	U		0.18	0.18	
Toluene		4.7			0.15	0.15	
trans-1,3-Dichloropr	opene	0.18	υ		0.18	0.18	
1,1,2-Trichloroethan	e	0.22	υ		0.22	0.22	
Tetrachloroethene		3.9			0.27	0.27	
Dibromochlorometha	ane	0.34	U		0.34	0.34	
1,2-Dibromoethane		0.31	υ		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-Tetrachloroe	thane	0.27	Ū		0.27	0.27	
4-Ethyltoluene		0.20	Ŭ		0.20	0.20	
1,3,5-Trimethylbenz	ene	0.39	Ü		0.39	0.39	
1,2-Dichloroethene,		0.16	Ü		0.16	0.16	
m-Xylene & p-Xylen		1.4	J		0.17	0.17	
Xylenes, Total		1.8			0.17	0.17	

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 Voiatile Organic Compounds in Ambient Air	Low Concentration (GC/MS)
---	---------------------------

Analysis Method:	TO15 LL	Analysis Batch:	200-29652	Inst	rument ID:	E.i	
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab	File ID:	eeqc012.d	
Dilution:	4.0			Initia	al Weight/Volume:	125 mL	
Analysis Date:	11/28/2011 1858			Fina	al Weight/Volume:	500 mL	
Prep Date:	11/28/2011 1858				ction Volume:	500 mL	
riep bate.	11/20/2011 1000			,-			
Analyte		Result (p	pb v/v)	Qualifier	MDL	RL	
Dichlorodifluoromet	thane	0.58	,		0.040	0.040	
1,2-Dichlorotetraflu		0.040		υ	0.040	0.040	
Vinyl chloride		0.080		υ	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	
Trichlorofluorometh		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 eth		0.040		υ	0.040	0.040	
trans-1,2-Dichloroe		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-Dichloroeth	ene	0.040		υ	0.040	0.040	
Chloroform		0.19			0.040	0.040	
1,1,1-Trichloroetha	ne	0.056			0.040	0.040	
Cyclohexane		0.094			0.040	0.040	
Carbon tetrachlorid	le	0.068			0.040	0.040	
2,2,4-Trimethylpen	tane	0.11			0.040	0.040	
Benzene		0.31			0.040	0.040	
1,2-Dichloroethane	t	0.080		U	0.080	0.080	
n-Heptane		0.10			0.040	0.040	
Trichloroethene		0.12			0.040	0.040	
1,2-Dichloropropan	e	0.080		U	0.080	0.080	
Bromodichlorometh	nane	0.040		U	0.040	0.040	
cis-1,3-Dichloropro	pene	0.040		U	0.040	0.040	
Toluene		0.88			0.040	0.040	
trans-1,3-Dichlorop	propene	0.040		U	0.040	0.040	
1,1,2-Trichloroetha		0.040		U	0.040	0.040	
Tetrachloroethene		0.72			0.040	0.040	
Dibromochlorometh	nane	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-Tetrachloro	ethane	0.040		U m	0.040	0.040	
4-Ethyltoluene		0.040		U	0.040	0.040	
1,3,5-Trimethylben	zene	0.080		υ	0.080	0.080	
1,2-Dichloroethene	e, Total	0.040		U	0.040	0.040	
m-Xylene & p-Xyle	ne	0.31			0.040	0.040	
Xylenes, Total		0.40			0.040	0.040	
Analyta		Result (t	ıa/m3)	Qualifier	MDL	RL	
Analyte	thono		agamo)	Quantici	0.20	0.20	
Dichlorodifluorome	unane	2.9			0.20	0.20	

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/Vol	
Analysis Date:	11/28/2011 1858			Final Weight/Vol	
Prep Date:	11/28/2011 1858			Injection Volume	
				•	
Analyte		Result (u	g/m3) Q	ualifier MDL	RL
1,2-Dichlorotetraflu	oroethane	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	υ	0.21	0.21
Bromoethene(Vinyl	Bromide)	0.35	U	0.35	0.35
Trichlorofluorometh	ane	1.3		0.22	0.22
1,1-Dichloroethene		0.16	υ	0.16	0.16
3-Chloropropene		0.25	υ	0.25	0.25
Methylene Chloride		1.4	U	1.4	1.4
Methyl tert-butyl eth	er	0.14	U	0.14	0.14
trans-1,2-Dichloroet	hene	0.16	υ	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-Dichloroethe	ene	0.16	υ	0.16	0.16
Chloroform		0.91		0.20	0.20
1,1,1-Trichloroethar	ne	0.30		0.22	0.22
Cyclohexane		0.32		0.14	0.14
Carbon tetrachloride	9	0.43		0.25	0.25
2,2,4-Trimethylpent	ane	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	υ	0.37	0.37
Bromodichlorometha	ane	0.27	υ	0.27	0.27
cis-1,3-Dichloroprop	ene	0.18	U	0.18	0.18
Toluene		3.3		0.15	0.15
trans-1,3-Dichloropr	opene	0.18	U	0.18	0.18
1,1,2-Trichloroethan	e	0.22	U	0.22	0.22
Tetrachloroethene		4.9		0.27	0.27
Dibromochlorometha	ane	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-Tetrachloroe	thane	0.27	U	0.27	0.27
4-Ethyltoluene		0.20	U	0.20	0.20
1,3,5-Trimethylbenz		0.39	U	0.39	0.39
1,2-Dichloroethene,	Total	0.16	U	0.16	0.16
m-Xylene & p-Xylene	9	1.3		0.17	0.17
Xylenes, Total		1.7		0.17	0.17

Job Number: 200-8242-1

Sdg Number: 200-8242

Client Sample iD:

IA-04

Lab Sample ID:

200-8242-8

Client Matrix:

Air

Date Sampled: 11/15/2011 1549 Date Received: 11/17/2011 1010

0.20

0.20

TO15 LL Volatile Organic Compounds in Ambient A	Air. Low Concentration (3C/MS)
I O ID EL VOIALIS OI MAINO COMPOUNDS IN AMBIENT	Jii ban aanaanmanan l	,

	TO15 LL Volati	lie Organic Compounds	in Ambient Air, Lo	w 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	
, top bate.				•		
Analyte		Result (p	pb v/v) Qu	alifier MDL	RL	
Dichlorodifluorome	thane	0.74		0.040	0.040	
1,2-Dichlorotetraflu	oroethane	0.040	U	0.040	0.040	
Vinyl chloride		0.080	υ	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(Viny	l Bromide)	0.080	U	0.080	0.080	
Trichlorofluorometh		0.21		0.040	0.040	
1,1-Dichloroethene	e	0.040	U	0.040	0.040	
3-Chloropropene		0.080	U	0.080	0.080	
Methylene Chloride	е	0.40	U	0.40	0.40	
Methyl tert-butyl et		0.040	υ	0.040	0.040	
trans-1,2-Dichloroe	ethene	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-Dichloroeth		0.040	υ	0.040	0.040	
Chloroform		0.040	U	0.040	0.040	
1,1,1-Trichloroetha	ane	0.086		0.040	0.040	
Cyclohexane		0.087		0.040	0.040	
Carbon tetrachloric	de	0.070		0.040	0.040	
2,2,4-Trimethylpen		0.059		0.040	0.040	
Benzene		0.40		0.040	0.040	
1,2-Dichloroethane	9	0.080	U	0.080	0.080	
n-Heptane		0.071		0.040	0.040	
Trichloroethene		0.17		0.040	0.040	
1,2-Dichloropropa	ne	0.080	υ	0.080	0.080	
Bromodichloromet		0.040	υ	0.040	0.040	
cis-1,3-Dichloropro		0.040	υ	0.040	0.040	
Toluene		0.61		0.040	0.040	
trans-1,3-Dichloro	oropene	0.040	U	0.040	0.040	
1,1,2-Trichloroetha		0.040	U	0.040	0.040	
Tetrachloroethene		0.47		0.040	0.040	
Dibromochloromet		0.040	υ	0.040	0.040	
1,2-Dibromoethan		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-Tetrachlor	oethane	0.040	U	0.040	0.040	
4-Ethyltoluene	-	0.040	υ	0.040	0.040	
1,3,5-Trimethylber	nzene	0.080	U	0.080	0.080	
1,2-Dichloroethen		0.040	U	0.040	0.040	
m-Xylene & p-Xyle		0.053		0.040	0.040	
Xylenes, Total		0.083		0.040	0,040	
				vetter AADI	RL	
Analyte		Result (t	ig/m3) Q	ualifier MDL	0.20	

3.7

Job Number: 200-8242-1

Sdg Number: 200-8242

Client Sample ID:

IA-04

Lab Sample ID:

200-8242-8

Client Matrix:

Air

Date Sampled: 11/15/2011 1549

Date Received: 11/17/2011 1010

Amakasia 88-11 1		ie Organic Compounds			. ,	 .	
Analysis Method:	TO15 LL	Analysis Batch:	200-29652		trument ID:	E.i	
Prep Method:	Summa Canister	Prep Batch:	N/A		File ID:	eeqc013.d	
Dilution:	4.0				al Weight/Volume:	125 mL	
Analysis Date:	11/28/2011 1952				al Weight/Volume:	500 mL	
Prep Date:	11/28/2011 1952			Inje	ction Volume:	500 mL	
Analyte		Result (u	g/m3)	Qualifier	MDL	RL	
1,2-Dichlorotetraflu	oroethane	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		υ	0.31	0.31	
Chloroethane		0.21		U	0.21	0.21	
Bromoethene(Vinyl	Bromide)	0.35		υ	0.35	0.35	
Trichlorofluorometh		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 eth	ner	0.14		U	0.14	0.14	
rans-1,2-Dichloroe	thene	0.16		U	0.16	0.16	
n-Hexane		0.79			0.28	0.28	
,1-Dichloroethane		0.16		U	0.16	0.16	
is-1,2-Dichloroethe	ene	0.16		U	0.16	0.16	
Chloroform		0.20		U	0.20	0.20	
,1,1-Trichloroethar	ne	0.47			0.22	0.22	
Cyclohexane		0.30			0.14	0.14	
Carbon tetrachloride	9	0.44			0.25	0.25	
2,2,4-Trimethylpent	ane	0.28			0.19	0.19	
Benzene		1.3			0.13	0.13	
,2-Dichloroethane		0.32		υ	0.32	0.32	
n-Heptane		0.29			0.16	0.16	
richloroethene		0.90			0.21	0.21	
,2-Dichloropropane	9	0.37		U	0.37	0.37	
Bromodichlorometh	ane	0.27		U	0.27	0.27	
is-1,3-Dichloroprop	pene	0.18		U	0.18	0.18	
oluene		2.3			0.15	0.15	
rans-1,3-Dichloropr	ropene	0.18		υ	0.18	0.18	
I,1,2-Trichloroethar	ne	0.22		U	0.22	0.22	254
etrachioroethene		3.2			0.27	0.27	
Dibromochlorometh	ane	0.34		U	0.34	0.34	
,2-Dibromoethane		0.31		U	0.31	0.31	
thylbenzene		0.17		υ	0.17	0.17	
-Xylene		0.17		U	0.17	0.17	
Bromoform		0.41		U	0.41	0.41	
,1,2,2-Tetrachloroe	ethane	0.27		U	0.27	0.27	
-Ethyltoluene		0.20		U v	0.20	0.20	
,3,5-Trimethylbenz	ene	0.39		U	0.39	0.39	
,2-Dichloroethene,	Total	0.16		Ū	0.16	0.16	
n-Xylene & p-Xylen		0.23			0.17	0.17	
(vienes Total		0.36			0.17	0.17	

0.17

0.17

0.36

Xylenes, Total



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

<u>Samples</u>

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	Method
Volatile Organic Compounds (VOC)	SW 846 8260B
Semi-volatile Organic Compounds (SVOC)	SW 846 8270C
Metals (except mercury)	SW 846-6010B
Mercury	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

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 aluninum 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		

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

Analysis Method: Prep Method:

8260B 5030B Analysis Batch:

480-24755

Instrument ID:

HP5973C

Dilution:

1.0

Prep Batch:

N/A

Lab File ID:

C12572.D

Initial Weight/Volume:

5 mL

Analysis Date: Prep Date:

07/24/2011 1307 07/24/2011 1307 Final Weight/Volume:

5 mL

Analy	/te
Vinyl	chloride

Result (ug/L)

Qualifier

Vinyl chloride	
Xylenes, Total	

ND ND

Qualifier Acceptance Limits

1.0 2.0

RL

Surrogate
1,2-Dichloroethane-d4 (Surr)
4-Bromofluorobenzene (Surr)
Toluene-d8 (Surr)

112 105 110

%Rec

73 - 120 71 - 126

66 - 137

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

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:

8260B 5030B Analysis Batch: Prep Batch:

480-24755

Instrument ID:

HP5973C

Prep Method:

1.0

Lab File ID:

Dilution:

N/A

2.6

C12572.D

Analysis Date:

07/24/2011 1307

Initial Weight/Volume:

5 mL

Prep Date:

07/24/2011 1307

1

Final Weight/Volume:

5 mL

Tentatively Identified Compounds

Number TIC's Found:

RT

Est. Result (ug/L)

Qualifier

Cas Number

Analyte Unknown

8.25

ΤJ

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	Valatila	Organic	Compounds	(GC/MS)
02508	voiatile	Organic	Compounds	IGC/INS/

Analysis Method: Prep Method:

8260B 5030B Analysis Batch:

480-24755

Instrument ID:

HP5973C

Dilution:

1.0

Prep Batch:

N/A

Lab File ID:

C12575.D

Analysis Date:

Initial Weight/Volume:

5 mL

07/24/2011 1422

Final Weight/Volume;

5 mL

-ceb	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	10	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
Methylicyclohexane	ND		1.0
Methylene Chloride	ND		1.0
•	ND		1.0
Styrene Tetrachloroethene	ND		1.0
Toluene	ND		1.0
	ND		1.0
trans-1,2-Dichloroethene	ND ND		1.0
trans-1,3-Dichloropropene	ND ND		1.0
Trichloroethene			1.0
Trichlorofluoromethane	ND		1.0

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)
OZOVD	VUIALIIE	Organic	Compounds	(GC/ING)

Analysis Method: Prep Method:

8260B 5030B

Analysis Batch: Prep Batch:

480-24755

N/A

Instrument ID:

HP5973C

Dilution:

1.0

07/24/2011 1422

Analysis Date: Prep Date:

Lab File ID:

C12575.D

Initial Weight/Volume: Final Weight/Volume:

5 mL 5 mL

07/24/2011 1422

Qualifier

Qualifier

Analyte Vinyl chloride Xylenes, Total Result (ug/L) ND ND

RL 1.0 2.0

Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr)

66 - 137 73 - 120 71 - 126

Acceptance Limits

Job Number: 480-7605-1

Client Sample ID:

Client: Brown and Caldwell

Lab Sample ID:

GWP-10-20-22

Client Matrix:

Water

480-7605-3

Date Sampled: 07/20/2011 1030

Date Received: 07/22/2011 0940

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:

8260B 5030B Analysis Batch:

480-24755

Instrument ID:

HP5973C

Prep Method:

Prep Batch:

Lab File ID:

C12575.D

Dilution:

1.0

N/A

Initial Weight/Volume:

Analysis Date:

07/24/2011 1422

Prep Date:

Cas Number

07/24/2011 1422

0

Final Weight/Volume:

5 mL 5 mL

Tentatively Identified Compounds

Analyte

Number TIC's Found:

RT

Est. Result (ug/L)

Qualifier

Tentatively Identified Compound

None

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

Analysis Method: Prep Method:

8260B 5030B Analysis Batch:

480-24755

Instrument ID:

HP5973C

Dilution:

1.0

Prep Batch:

N/A

Lab File ID:

C12576.D

Analysis Date:

07/24/2011 1447

Initial Weight/Volume:

5 mL

Prep Date:

07/24/2011 1447

	•
Final	Weight/Volume:

5 mL

Analyte	Decult (unit)	Qualifier	D 1
1,1,1-Trichloroethane	Result (ug/L)	Qualifier	RL
1,1,2,2-Tetrachloroethane	ND ND		1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND ND		1.0
1,1,2-Trichloroethane	ND		1.0
1,1-Dichloroethane	ND ND		1.0
1,1-Dichloroethene	ND ND		1.0
1,2,4-Trichlorobenzene	ND ND		1.0
1,2-Dibromo-3-Chloropropane	ND		1.0 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		1.0
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
	ND		1.0
	ND		1.0
Trichlorofluoromethane	ND		1.0

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)	ì
020VD	VUIALITE	VIGALIIC	Colliboning	COLLEGE	,

Analysis Method: Prep Method:

8260B 5030B

Analysis Batch: 480-24755

Instrument ID:

HP5973C

1.0

N/A

Lab File ID:

Final Weight/Volume:

C12576.D

Dilution:

Prep Batch:

Initial Weight/Volume:

Acceptance Limits

5 mL

Analysis Date:

07/24/2011 1447

Prep Date:

07/24/2011 1447

5 mL

Analyte Vinyl chloride Result (ug/L) ND

Qualifier

Qualifier

RL 1.0

2.0

Xylenes, Total ND

Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr)

108 101 107

%Rec

66 - 137 73 - 120 71 - 126

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 5030B Analysis Batch:

480-24755

Instrument ID:

HP5973C

Prep Method: Dilution:

1.0

Prep Batch:

N/A

Lab File ID:

C12576.D

Tentatively Identified Compounds

07/24/2011 1447

Initial Weight/Volume:

Final Weight/Volume:

5 mL

5 mL

Analysis Date: Prep Date:

07/24/2011 1447

0

Cas Number

Analyte

Number TIC's Found:

RT

Est. Result (ug/L)

Qualifier

Tentatively Identified Compound

None

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID:

GWP-10-40-42

Lab Sample ID:

480-7605-5

Client Matrix:

Water

Date Sampled: 07/20/2011 1130

Date Received: 07/22/2011 0940

8260B V	/olatile	Organic	Compounds	(GC/MS)
02605	voiatile	Organic	Compounds	IGC/NIS/

Analysis Method: Prep Method:

8260B 5030B Analysis Batch:

480-24755

Instrument ID: Lab File ID:

HP5973C

RL

1.0

1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 10 5.0 5.0 10 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0

Dilution:

1,1,1-Trichloroethane

1,1,2,2-Tetrachloroethane

Prep Batch:

ND

ND

N/A

C12577.D

1.0

Initial Weight/Volume: Final Weight/Volume:

5 mL

Analysis Date: Prep Date:

Analyte

07/24/2011 1512 07/24/2011 1512

Result (ug/L)	Qualifier

1,1,2-Trichloro-1,2,2-trifluoroethane	ND	
1,1,2-Trichloroethane	ND	
1,1-Dichloroethane	ND	
1,1-Dichloroethene	ND	
1,2,4-Trichlorobenzene	ND	
1,2-Dibromo-3-Chloropropane	ND	
1,2-Dibromoethane	ND	
1,2-Dichlorobenzene	ND	
1,2-Dichloroethane	ND	
1,2-Dichloropropane	ND	
1,3-Dichlorobenzene	ND	
1,4-Dichlorobenzene	ND	
2-Butanone (MEK)	ND	
2-Hexanone	ND	
4-Methyl-2-pentanone (MIBK)	ND	
Acetone	ND	
Benzene	ND	
Bromodichloromethane	ND ®	
Bromoform	ND	
Bromomethane	ND	
Carbon disulfide	ND S	
Carbon tetrachloride	ND	
Chlorobenzene	ND	
Chloroethane	ND	
Chloroform	ND	
Chloromethane	ND	
cis-1,2-Dichloroethene	ND	
cis-1,3-Dichloropropene	ND	
Cyclohexane	ND	
Dibromochloromethane	ND	
Dichlorodifluoromethane	ND	
Ethylbenzene	ND	
Isopropylbenzene	ND	
Methyl acetate	ND	
Methyl tert-butyl ether	ND	
	N.D.	

5 mL

1.0 1.0 1.0 1.0 1.0 1.0 1.0

1.0

1.0

1.0

1.0

09/26/2011

ND

ND

ND

ND

ND

ND

ND

ND

ND

Trichlorofluoromethane

trans-1,2-Dichloroethene

trans-1,3-Dichloropropene

Methylcyclohexane

Methylene Chloride

Tetrachloroethene

Trichloroethene

Styrene

Toluene

Client: Brown and Caldwell Job Number: 480-7605-1

Client Sample ID:

GWP-10-40-42

Lab Sample ID:

480-7605-5

Client Matrix:

Water

Date Sampled: 07/20/2011 1130

Date Received: 07/22/2011 0940

8260B Volatile Organic Compounds (GC/MS	8260B Vola	atile Organic	Compounds	(GC/MS)
---	------------	---------------	-----------	---------

Analysis Method: Prep Method:

8260B 5030B Analysis Batch:

480-24755

Instrument ID:

HP5973C

Dilution:

Prep Batch:

Lab File ID:

C12577.D

1.0

N/A

Initial Weight/Volume:

5 mL

Analysis Date: Prep Date:

07/24/2011 1512

07/24/2011 1512

Final Weight/Volume:

5 mL

Analyte Vinyl chloride Xylenes, Total Result (ug/L) ND ND

Qualifier

Qualifier

RL 1.0 2.0

Acceptance Limits

Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr)

73 - 120 71 - 126

66 - 137

Job Number: 480-7605-1

Client: Brown and Caldwell

Client Sample ID:

GWP-10-40-42

Lab Sample ID:

480-7605-5

07/24/2011 1512

07/24/2011 1512

Client Matrix:

Water

Date Sampled: 07/20/2011 1130

Date Received: 07/22/2011 0940

8260B Voiatile Organic Compounds (GC/MS)

Analysis Method: Prep Method:

Dilution:

8260B 5030B 1.0

Analysis Batch: Prep Batch:

480-24755 N/A

Instrument ID:

HP5973C

Lab File ID:

C12577.D

Initial Weight/Volume: Final Weight/Volume:

5 mL

5 mL

Tentatively Identified Compounds

Number TIC's Found:

Est. Result (ug/L)

Qualifier

Cas Number

Analysis Date:

Prep Date:

Analyte Unknown RT 8.25

4.4

ΤJ

Job Number: 480-7605-1 Client: Brown and Caldwell

Client Sample ID:

GWP-10-50-52

Lab Sample ID:

480-7605-6

Client Matrix:

Water

Date Sampled: 07/20/2011 1300

Date Received: 07/22/2011 0940

ROCOD Volatile	Organic Compound	· (CC/MS)
8260B VOIALIE	Urganic Compound	S (GC/N/3)

Analysis Method:

8260B 5030B Analysis Batch:

480-24755

Instrument ID:

HP5973C

Prep Method: Dilution:

Prep Batch:

N/A

Lab File ID:

C12578.D

Analysis Date:

1.0 07/24/2011 1537

Initial Weight/Volume:

5 mL

Prep Date:

07/24/2011 1537

			_	

Final	Weight/Volume:	5	mL
-------	----------------	---	----

Analyte	Result (ug/L)	Qualifier	RL
1,1,1-Trichloroethane	ND		1,0
1,1,2,2-Tetrachioroethane	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
•	ND		1.0
cis-1,3-Dichloropropene	ND		1.0
Cyclohexane	ND		1.0
Dibromochloromethane	ND		1.0
Dichlorodifluoromethane			1.0
Ethylbenzene	ND		1.0
isopropylbenzene	ND		
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

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: Prep Method:

8260B 5030B Analysis Batch:

480-24755

Instrument ID:

HP5973C

Dilution:

1.0

Prep Batch:

N/A

Lab File ID: Initial Weight/Volume: Final Weight/Volume:

C12578.D

Analysis Date:

07/24/2011 1537

5 mL 5 mL

Prep Date:

07/24/2011 1537

Analyte Vinyl chloride Result (ug/L) ND

Qualifier

Qualifier

RL 1.0 2.0

Xylenes, Total

ND

Acceptance Limits 66 - 137

Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr)

112 106 111

%Rec

73 - 120 71 - 126

Job Number: 480-7605-1 Client: Brown and Caldwell

Client Sample ID:

GWP-10-50-52

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 5030B Analysis Batch: Prep Batch:

480-24755

Instrument ID:

HP5973C

Prep Method:

1.0

Lab File ID:

C12578.D

Dilution:

Tentatively identified Compounds

N/A

Initial Weight/Volume:

5 mL

Analysis Date: Prep Date:

07/24/2011 1537

Final Weight/Volume:

5 mL

Cas Number

07/24/2011 1537

Number TIC's Found:

RT

0

Est. Result (ug/L)

Qualifier

Analyte Tentatively Identified Compound

None

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

ROCOR VA	olatile Orga	nic Comp	nunde i	(GC/MS)
020UB V	Jiaule Olda	inic Como	ourius i	

Analysis Method:

8260B 5030B Analysis Batch:

480-24755

Instrument ID:

HP5973C

RL 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 10 5.0 5.0 10 1.0

Prep Method:

Prep Batch:

N/A

Lab File ID:

C12579,D

Dilution:

1.0 07/24/2011 1602

Initial Weight/Volume:

5 mL

Analysis Date: Prep Date:

07/24/2011 1602

Final Weight/Volume:	5
----------------------	---

mL

Analyte	Result (ug/L)	Qualifier
1,1,1-Trichloroethane	ND	
1,1,2,2-Tetrachloroethane	ND	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	
1,1,2-Trichloroethane	ND	
,1-Dichloroethane	ND	
,1-Dichloroethene	ND	
,2,4-Trichlorobenzene	ND	
,2-Dibromo-3-Chloropropane	ND	
,2-Dibromoethane	ND	
,2-Dichlorobenzene	ND	
,2-Dichloroethane	ND	
,2-Dichloropropane	ND	
,3-Dichlorobenzene	ND	
4-Dichlorobenzene	ND	
-Butanone (MEK)	ND	
-Hexanone	ND	
-Methyl-2-pentanone (MIBK)	ND	
cetone	ND	
enzene	ND	
romodichloromethane	ND	
romoform	ND	
romomethane	ND	
arbon disulfide	ND	
arbon tetrachloride	ND	
hlorobenzene	ND	
hioroethane	ND	
chloroform	ND	
hloromethane	ND	
s-1,2-Dichloroethene	ND	
is-1,3-Dichloropropene	ND	
cyclohexane	ND	
ibromochloromethane	ND	
ichlorodifluoromethane	ND	
thylbenzene	ND	
sopropylbenzene	ND	
flethyl acetate	ND	
Methyl tert-butyl ether	ND	
lethylcyclohexane	ND	
Methylene Chloride	ND	
tyrene	ND	
etrachloroethene	ND	
oluene	ND	
ans-1,2-Dichloroethene	ND	
ans-1,3-Dichloropropene	ND	
6 Tab. 1 10	ALC:	

1.0

1.0

ND

ND

Trichloroethene

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)	í
------------------------	-----------	---------	---

Analysis Method: Prep Method:

8260B 5030B Analysis Batch:

480-24755

Instrument ID:

HP5973C

Dilution:

1.0

Prep Batch:

N/A

Lab File ID:

C12579.D

Analysis Date:

Prep Date:

07/24/2011 1602

07/24/2011 1602

Final Weight/Volume:

Initial Weight/Volume:

5 mL 5 mL

Analyte

Qualifier

Vinyl chloride Xylenes, Total Result (ug/L) ND ND

Qualifier

RL 1.0 2.0

Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr)

%Rec 114 104 110

66 - 137 73 - 120 71 - 126

Acceptance Limits

Job Number: 480-7605-1 Client: Brown and Caldwell

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: Prep Method:

8260B 5030B Analysis Batch: Prep Batch:

480-24755 N/A

Instrument ID:

HP5973C

Dilution: 1.0

Analysis Date:

Lab File ID:

C12579.D

07/24/2011 1602

Initial Weight/Volume: Final Weight/Volume:

4.1

5 mL

Prep Date:

07/24/2011 1602

1

5 mL

Tentatively Identified Compounds Cas Number

Analyte Unknown Number TIC's Found:

RT 8.25

Est. Result (ug/L)

Qualifier

ΤJ

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID:

DUP-072011

Lab Sample ID:

480-7605-8FD

Client Matrix:

Water

Date Sampled: 07/20/2011 0000

Date Received: 07/22/2011 0940

8260B Volatile Organic Compounds (G

Analysis Method: Prep Method:

8260B 5030B Analysis Batch:

480-24755

Instrument ID:

HP5973C

Dilution:

1.0

Prep Batch:

ND

N/A

Lab File ID: Initial Weight/Volume: C12580.D

RL

1.0

1.0

1.0

1.0

1.0

1.0

1.0

1.0

1.0

1.0

1.0

1.0

1.0

Analysis Date:

1,1,1-Trichloroethane

1,1,2-Trichloroethane

1,1-Dichloroethane

1,1-Dichloroethene

1,2-Dibromoethane

1,4-Dichlorobenzene

1,1,2,2-Tetrachloroethane 1,1,2-Trichloro-1,2,2-trifluoroethane

07/24/2011 1629

Final Weight/Volume:

5 mL 5 mL

Prep Date:

Analyte

07/24/2011 1629

Result (ug/L)	Qualifier

ND		
ND		

1,2,4-Trichlorobenzene 1,2-Dibromo-3-Chloropropane

1,2-Dichlorobenzene 1,2-Dichloroethane 1,2-Dichloropropane 1,3-Dichlorobenzene

2-Butanone (MEK) 2-Hexanone 4-Methyl-2-pentanone (MIBK)

Bromodichloromethane Bromoform Bromomethane Carbon disulfide

Acetone

Benzene

Carbon tetrachloride Chlorobenzene Chloroethane Chloroform Chloromethane

cis-1.2-Dichloroethene

cis-1,3-Dichloropropene

Cyclohexane Dibromochloromethane Dichlorodifluoromethane Ethylbenzene Isopropylbenzene

Methyl acetate

Styrene

Methyl tert-butyl ether

Methylcyclohexane

Methylene Chloride

Tetrachloroethene Toluene trans-1,2-Dichloroethene trans-1,3-Dichloropropene

Trichlorofluoromethane TestAmerica Buffalo

Trichloroethene

Page 37 of 2377

09/26/2011

1.0 10 5.0 5.0 10 1.0 1.0 1.0 1.0 1.0

1.0

1.0

1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0

1.0 1.0 1.0 1.0 1.0 1.0

1.0 1.0 1.0 1.0

1.0 1.0

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID:

DUP-072011

Lab Sample ID:

480-7605-8FD

Client Matrix:

Water

Date Sampled: 07/20/2011 0000

Date Received: 07/22/2011 0940

8260B Volatile	Organia	Compounds	(CC/MC)
8260B Volatile	Organic	Compounds	(GC/MS)

Analysis Method: Prep Method:

8260B 5030B Analysis Batch:

480-24755

Instrument ID:

HP5973C

Dilution:

1.0

Prep Batch:

N/A

Lab File ID:

Final Weight/Volume:

C12580.D

Initial Weight/Volume:

71 - 126

5 mL

Analysis Date: Prep Date:

07/24/2011 1629

07/24/2011 1629

5 mL

Analyte Vinyl chloride Xylenes, Total

Toluene-d8 (Surr)

Result (ug/L) ND ND

Qualifier

RL 1.0 2.0

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

111

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID:

DUP-072011

Lab Sample ID:

480-7605-8FD

Client Matrix:

Water

Date Sampled: 07/20/2011 0000

Date Received: 07/22/2011 0940

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: Prep Method:

8260B 5030B Analysis Batch:

480-24755

Instrument ID:

HP5973C

Dilution:

1.0

Tentatively Identified Compounds

Prep Batch:

N/A

Lab File ID:

C12580.D

Initial Weight/Volume:

5 mL

Analysis Date:

07/24/2011 1629

Final Weight/Volume:

5 mL

Prep Date:

07/24/2011 1629

Number TIC's Found:

1

Est. Result (ug/L)

Qualifier

Cas Number

Analyte Unknown

RT 8.25

ΤJ

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 Vo	latile Oraș	nic Compo	unde	(CC/MS)
OZOUĐ VU	iatile Ulda	nic Colliba	unus	I CO CO INCO I

Analysis Method: Prep Method:

8260B 5030B

480-24755 Analysis Batch:

Instrument ID:

HP5973C

1.0

Prep Batch:

N/A

Lab File ID:

C12581.D

Dilution: Analysis Date:

07/24/2011 1655

Initial Weight/Volume:

5 mL

07/24/2011 1655

Final Weight/Volume:

5 mL

Prep Date:
Analyte
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroeth
1,1,2-Trichloro-1,2,2-t
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2,4-Trichlorobenzer
1,2-Dibromo-3-Chloro
1,2-Dibromoethane
1,2-Dichlorobenzene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2-Butanone (MEK)
2-Hexanone
4-Methyl-2-pentanone
Acetone
Benzene
Decree of about a second by a se

1,1,1-1 richloroethane	
1,1,2,2-Tetrachloroeth	nane
1,1,2-Trichloro-1,2,2-t	rifluoroethane
1,1,2-Trichloroethane	
1,1-Dichloroethane	
1,1-Dichloroethene	
1,2,4-Trichlorobenzen	
1,2-Dibromo-3-Chloro	propane
1,2-Dibromoethane	
1,2-Dichlorobenzene	
1,2-Dichloroethane	
1,2-Dichloropropane	
1,3-Dichlorobenzene	
1,4-Dichlorobenzene	
2-Butanone (MEK)	
2-Hexanone	
4-Methyl-2-pentanone	e (MIBK)
Acetone	
Benzene	
Bromodichloromethan	ie
Bromoform	
Bromomethane	
Carbon disulfide	
Carbon tetrachloride	
Chlorobenzene	
Chloroethane	
Chloroform	
Chloromethane	
cis-1,2-Dichloroethen	
cis-1,3-Dichloroprope	ne
Cyclohexane	
Dibromochloromethar	
Dichlorodifluorometha	ine
Ethylbenzene	
Isopropylbenzene	
Methyl acetate	
Methyl tert-butyl ether	•
Methylcyclohexane	
Methylene Chloride	
Styrene	
Tetrachloroethene	

Result (ug/L)	Qualifier
ND	
ND ND	
ND ND	
ND	

RL
1.0
1.0
1.0
1.0
1.0
1.0
1.0
1.0
1.0
1.0
1.0
1.0
1.0
1.0 10
5.0
5.0 5.0
10
1.0
1.0
1.0
1.0
1.0
1.0
1.0
1.0
1.0
1.0
1.0
1.0
1.0
1.0
1.0 1.0
1.0
1.0
1.0
1.0
1.0
1.0
1.0
1.0
1.0
1.0

1.0

1.0

ND ND ND

ND ND

ND

ND

ND

ND

Trichloroethene

trans-1,2-Dichloroethene

trans-1,3-Dichloropropene

Toluene

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

Analysis Method: Prep Method:

8260B 5030B

Prep Batch:

Analysis Batch: 480-24755

Instrument ID:

HP5973C

1.0

N/A

Lab File ID:

C12581.D

Dilution: Analysis Date: 07/24/2011 1655

Initial Weight/Volume:

5 mL

Final Weight/Volume:

5 mL

Prep Date:

07/24/2011 1655

Result (ug/L)

Qualifier

Qualifier

Analyte Vinyl chloride Xylenes, Total

ND ND

%Rec

1.0 2.0

RL

Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr)

114 105 110 66 - 137 73 - 120 71 - 126

Acceptance Limits

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: Prep Method:

8260B 5030B Analysis Batch:

Prep Batch:

480-24755

Instrument ID:

HP5973C

Dilution: 1.0

07/24/2011 1655

Analysis Date: Prep Date:

Cas Number

07/24/2011 1655

Analyte

N/A

Lab File ID:

C12581.D

Initial Weight/Volume:

5 mL

Final Weight/Volume:

5 mL

Tentatively Identified Compounds

Number TIC's Found:

RT

0

Est. Result (ug/L)

Qualifier

Tentatively Identified Compound

None

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

Analysis Method: Prep Method:

8260B 5030B Analysis Batch: Prep Batch:

480-24755

Instrument ID:

HP5973C

Dilution:

1.0

N/A

Lab File ID:

C12582.D

Analysis Date:

07/24/2011 1722

Initial Weight/Volume: Final Weight/Volume:

5 mL 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

Job Number: 480-7605-1

Client: Brown and Caldwell

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

Analysis Method: Prep Method:

8260B 5030B

Analysis Batch: Prep Batch:

480-24755

Instrument ID:

HP5973C

N/A

Lab File ID:

C12582.D

RL

1.0

2.0

Initial Weight/Volume: Final Weight/Volume:

5 mL 5 mL

Analysis Date: Prep Date:

Dilution:

1.0

07/24/2011 1722

1,2-Dichloroethane-d4 (Surr)

4-Bromofluorobenzene (Surr)

07/24/2011 1722

Result (ug/L)

Qualifier

Analyte Vinyl chloride Xylenes, Total

Toluene-d8 (Surr)

Surrogate

ND ND

106

111

Acceptance Limits %Rec Qualifier 112 66 - 137

73 - 120 71 - 126

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

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:

8260B 5030B Analysis Batch:

480-24755

Instrument ID:

HP5973C

Prep Method: Dilution:

1.0

Prep Batch:

Lab File ID:

C12582.D

Tentatively Identified Compounds

07/24/2011 1722

N/A

Initial Weight/Volume:

5 mL

Analysis Date:

Final Weight/Volume:

5 mL

Prep Date:

07/24/2011 1722

Number TIC's Found:

Est. Result (ug/L)

Cas Number

Analyte Unknown RT 8.25

2.7

Qualifier ΤJ

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

Analysis Method:

8260B 5030B Analysis Batch:

480-24755

Instrument ID:

HP5973C

Prep Method: Dilution:

Lab File ID:

C12583.D

1.0

Prep Batch:

N/A

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} 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

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

Analysis Method:

8260B 5030B Analysis Batch:

480-24755

Instrument ID:

HP5973C

Prep Method.

Lab File ID:

C12583.D

Dilution:

1.0

Prep Batch:

N/A

Initial Weight/Volume: Final Weight/Volume:

5 mL

Analysis Date: Prep Date:

07/24/2011 1747 07/24/2011 1747

5 mL

Analyte

Result (ug/L)

Qualifier

RL

Vinyl chloride Xylenes, Total ND ND

Qualifier Acceptance Limits

1.0 2.0

Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr)

110 100 104

%Rec

66 - 137 73 - 120 71 - 126

Job Number: 480-7605-1

Cilent Sample ID:

Client: Brown and Caldwell

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 5030B Analysis Batch:

480-24755

Instrument ID:

HP5973C

Prep Method:

Prep Batch:

N/A

0

Lab File ID:

C12583.D

Dilution:

1.0

Initial Weight/Volume:

5 mL

Analysis Date: Prep Date:

Cas Number

07/24/2011 1747 07/24/2011 1747

Analyte

Final Weight/Volume:

5 mL

Tentatively Identified Compounds

Number TIC's Found:

RT

Est. Result (ug/L)

Qualifier

Tentatively Identified Compound

None

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: Prep Method:

8260B 5030B Analysis Batch:

480-24751

Instrument ID: Lab File ID:

HP5973F F2701.D

Dilution:

1.0

Prep Batch:

N/A

Initial Weight/Volume:

5.03 g

Analysis Date:

07/23/2011 1735

5 mL

07/23/2011 1735

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
1,1,1-Trichloroethane		160		5.3
1,1,2,2-Tetrachloroethan	ne	ND		5,3
1,1,2-Trichloro-1,2,2-triff	uoroethane	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-Chloropro	opane	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 (M	MBK)	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
Tetrachioroethene		2000	E	5.3
Toluene		ND	_	5.3
trans-1,2-Dichloroethene		ND ND		5.3
trans-1,3-Dichloroproper		ND		5.3
Trichloroethene		310	— E	5.3
Trichlorofluoromethane		ND	_	5.3
monordinationetrane		ND		5.3

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	Voiatile	Organic	Compounds	(GC/MS)	Ì
-------	----------	---------	-----------	---------	---

Analysis Method:

8260B 5030B Analysis Batch: Prep Batch:

480-24751

Instrument ID:

HP5973F

Prep Method:

1.0

Lab File ID:

Dilution:

N/A

F2701.D

Initial Weight/Volume: Final Weight/Volume:

5.03 g

Analysis Date: Prep Date:

07/23/2011 1735

5 mL

·			
		.4.0	
P	naly	γιe	

07/23/2011 1735

Qualifier

Qualifier

RL 5.3

Vinyl	chic	oride
Xylen	ies,	Total

Toluene-d8 (Surr)

Result (ug/Kg) DryWt Corrected: Y ND ND

11 Acceptance Limits

Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr)

91 93 87

%Rec

64 - 126 72 - 126 71 - 125

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 Voiatile Organic Compounds (GC/MS)

Analysis Method: Prep Method:

8260B 5030B Analysis Batch:

480-24751

Instrument ID:

HP5973F

Dilution:

Prep Batch:

N/A

Lab File ID:

F2701.D

1.0

Initial Weight/Volume:

07/23/2011 1735 Analysis Date:

5.03 g

Prep Date:

07/23/2011 1735

Final Weight/Volume:

5 mL

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	TJN
	Unknown	11.29	18	ΤJ
281-23-2	Adamantane	11.58	17	TJN
1000155-85-6	cis-Decalin, 2-syn-methyl-	11.69	16	TJN
2958-76-1	Naphthalene, decahydro-2-methyl-	11.87	34	TJN
1618-22-0	Naphthalene, decahydro-2,6-dimethyl-	12.31	31	TJN
	Unknown	12.47	23	ΤJ
54676-39-0	Cyclohexane, 2-butyl-1,1,3-trimethyl-	12,59	31	TJN
	Unknown	12.77	28	ΤJ
	Unknown	13.11	67	ΤJ

Client: Brown and Caldwell Job Number: 480-7605-1

Cilent Sample ID:

SB-1-1.5-2.5

Lab Sample ID:

480-7605-12

Client Matrix:

400-7000-1

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 7		430
1,1,2,2-Tetrachloroethane		ND /		430
1,2-Trichloro-1,2,2-trifluoro	ethane	ND/		430
1,2-Trichloroethane		NØ		430
I 1-Dichloroethane		ND		430
I,1-Dichloroethene		/ND		430
1,2,4-Trichlorobenzene		1600		430
1,2-Dibromo-3-Chloropropar	ne	ND		430
1,2-Dibromoethane	/	ND		430
1,2-Dichlorobenzene		ND		430
1,2-Dichloroethane	/	ND		430
,2-Dichloropropane		ND		430
1,3-Dichlorobenzene		ND		430
1,4-Dichlorobenzene		ND		430
2-Butanone (MEK)		ND		2100
?-Hexanone		ND		2100
I-Methyl-2-pentanone (MIBI	0	ND		2100
Acetone		ND		2100
Benzene		ND		430
Bromodichloromethane		ND		430
Bromoform		ND		430
Bromomethane		ND		430
Carbon disulfide		ND		430
Carbon tetrachlonde		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
sopropylbenzene		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
Foluene		ND ND		430
		ND		430
trans-1,2-Dichloroethene		ND		430
rans-1,3-Dichloropropene		1400		430
Trichloroethene Trichlorofluoromethane		ND-		430

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	8260B	Volatile	Organic	Compounds	(GC/MS
---	-------	----------	----------------	-----------	--------

Analysis Method: Prep Method:

8260B 5030B Analysis Batch.

480-24875

Instrument ID:

HP5973G

Dilution:

4.0

Prep Batch:

480-24877

Lab File ID:

G4477.D

Analysis Date:

Run Type:

DL

Initial Weight/Volume: Final Weight/Volume:

5.03 g

Prep Date:

07/25/2011 2225 07/25/2011 1706

Result (ug/Kg)

500 mL

Analyte Vinyl chloride Xylenes, Total

Toluene-d8 (Surr)

DryWt Corrected: Y

ND ND Qualifier

Qualifier

RL 430 850

Surrogate 1,2-Dichloroethane-d4 (Surr)

4-Bromofluorobenzene (Surr)

%Rec 142 119 120

49 - 148 50 - 149

53 - 146

Acceptance Limits

Client: Brown and Caldwell

Job Number: 480-7605-1

Cilent Sample ID:

SB-1-1.5-2.5

Lab Sample ID:

480-7605-12

Client Matrix:

Solid

% Moisture:

Date Sampled: 07/19/2011 1000

Date Received: 07/22/2011 0940

8260B Volatile Organic Compounds (GC/MS)

DL

Analysis Method: Prep Method:

8260B 5030B Analysis Batch: Prep Batch:

480-24875 480-24877

7.0

Instrument ID: Lab File ID:

HP5973G

Dilution:

4.0

Initial Weight/Volume:

G4477.D

Analysis Date:

07/25/2011 2225

Run Type:

5.03 g

Prep Date:

07/25/2011 1706

Final Weight/Volume:

500 mL

Tentatively identified Compounds

Nui

10

Idilatively	Idelitilled	Compounds	
Cas Numba	r	Analyte	

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
1618-22-0	Naphthalene, decahydro-2,6-dimethyl-	12.44	7200	TJN
	Unknown	13.19	5500	ΤJ
1-57-6	Naphthalene, 2-methyl-	13.83	6800	TJN
0-12-0	Naphthalene, 1-methyl-	13.98	6500	TJN
10655-44-3	Decahydro-4,4,8,9,10-pentamethylnaphthal	14.08	7700	TJN
34-90-2	Benzene, 1,2,3,5-tetrachloro-	14.45	9200	TJN
	Unknown	14.53	11000	ΤJ
81-42-0	Naphthalene, 2,6-dimethyl-	14.66	12000	TJN
571-61-9	Naphthalene, 1,5-dimethyl-	14.78	15000	TJN
	Unknown	14.82	14000	ΤJ

Client: Brown and Caldwell Job Number: 480-7605-1

Client Sample ID:

SB-2-2.6-3.5

Lab Sample ID:

480-7605-13

Client Matrix:

Solid

% Moisture:

4.4

Date Sampled: 07/19/2011 1220

Date Received: 07/22/2011 0940

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: Prep Method:

8260B 5030B Analysis Batch:

480-24751

Instrument ID:

HP5973F

Dilution:

1.0

Prep Batch:

N/A

Lab File ID: Initial Weight/Volume: F2702.D

Analysis Date:

07/23/2011 1801

Final Weight/Volume:

5.09 g 5 mL

Prep Date:

07/23/2011 1801

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
1,1,1-Trichloroetha	ane	ND		5.1
1,1,2,2-Tetrachlord		ND		5.1
1,1,2-Trichloro-1,2	,2-trifluoroethane	ND		5.1
1,1,2-Trichloroetha	ane	ND	V	5.1
1,1-Dichloroethane		ND	,	5.1
1,1-Dichloroethene	•	ND		5.1
1,2,4-Trichloroben:	zene	ND		5.1
1,2-Dibromo-3-Chl	oropropane	ND		5.1
1,2-Dibromoethane	9	ND		5.1
1,2-Dichlorobenzer	ne	ND		5.1
1,2-Dichloroethane	•	ND		5.1
1,2-Dichloropropar	ne	ND		5.1
1,3-Dichlorobenzer		ND		5.1
1,4-Dichlorobenzer		ND		5.1
2-Butanone (MEK)		ND		26
2-Hexanone		ND		26
4-Methyl-2-pentano	one (MIBK)	ND		26
Acetone		ND		26
Benzene		ND		5.1
Bromodichlorometh	hane	ND		5.1
Bromoform		ND		5.1
Bromomethane		ND		5.1
Carbon disulfide		ND		5.1
Carbon tetrachlorid	le	ND		5.1
Chlorobenzene		ND		5.1
Chloroethane		ND		5.1
Chloroform		ND		5.1
Chloromethane		ND		5.1
cis-1,2-Dichloroeth		ND		5.1
cis-1,3-Dichloropro	pene	ND		5.1
Cyclohexane		ND		5.1
Dibromochlorometh		ND		5.1
Dichlorodifluorome	thane	ND		5,1
Ethylbenzene		ND		5.1
Isopropylbenzene		ND		5.1
Methyl acetate		ND		5.1
Methyl tert-butyl etl		ND		5,1
Methylcyclohexane		ND		5,1
Methylene Chloride		ND		5.1
Styrene		ND		5.1
Tetrachloroethene		ND		5,1
Toluene	dhaara .	ND		5.1
trans-1,2-Dichloroe		ND		5.1
trans-1,3-Dichlorop	propene	ND		5.1
Trichloroethene		ND		5.1
Trichlorofluorometh	nane	ND		5,1

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID:

SB-2-2.5-3.5

Lab Sample ID:

480-7605-13

Client Matrix:

Solid

% Moisture:

4.4

Date Sampled: 07/19/2011 1220

Date Received: 07/22/2011 0940

8260B	Volatile	Organic	Compounds	(GC/MS)
-------	----------	---------	-----------	---------

Analysis Method: Prep Method:

8260B 5030B Analysis Batch:

480-24751

Instrument ID:

HP5973F

Dilution:

Prep Batch:

N/A

Lab File ID:

F2702.D

RL

5.1

10

1.0

07/23/2011 1801

Analysis Date: Prep Date:

Xylenes, Total

Toluene-d8 (Surr)

07/23/2011 1801

Initial Weight/Volume:

5.09 g

Final Weight/Volume:

5 mL

Result (ug/Kg) Qualifier DryWt Corrected: Y Analyte ND Vinyl chloride

Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) %Rec 96 100

ND

Qualifier Acceptance Limits

64 - 126 72 - 126

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID:

SB-2-2.5-3.5

Lab Sample ID:

480-7605-13

Client Matrix:

Solid

% Moisture:

4.4

Date Sampled: 07/19/2011 1220

Date Received: 07/22/2011 0940

8260B Voiatile Organic Compounds (GC/MS)

Analysis Method: Prep Method:

8260B 5030B Analysis Batch:

480-24751

Instrument ID:

HP5973F

Dilution:

1.0

Prep Batch:

N/A

Lab File ID:

F2702.D

Initial Weight/Volume:

5.09 g

Final Weight/Volume:

5 mL

Analysis Date: Prep Date:

07/23/2011 1801 07/23/2011 1801

Tentatively Identified Compounds

Number TiC's Found:

Cas Number 80655-44-3

Analyte Decahydro-4,4,8,9,10-pentamethylnaphthal

RT 11.07 Est. Result (ug/Kg) 35

Qualifier TJN

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 Voiatile Organic Compounds (GC/MS)

Analysis Method: Prep Method:

8260B 5030B Analysis Batch:

480-24751

Instrument ID:

HP5973F

Prep Batch:

N/A

Lab File ID:

F2705.D

Dilution:

1.0

Initial Weight/Volume:

5.06 g

Analysis Date:

07/23/2011 1917

е

5 mL

Prep	Date:
Anah	.4

07	/23	/201	11	191	7
----	-----	------	----	-----	---

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
1,1,1-Trichloroetha	ine	ND		5.2
1,1,2,2-Tetrachlord	pethane	ND		5.2
1,1,2-Trichloro-1,2	,2-trifluoroethane	ND		5.2
1,1,2-Trichloroetha	ine	ND		5.2
1,1-Dichloroethane	•	ND		5.2
1,1-Dichloroethene		ND		5.2
1,2,4-Trichloroben	zene	ND		5.2
1,2-Dibromo-3-Chl	oropropane	ND		5.2
1,2-Dibromoethane	Э	ND		5.2
1,2-Dichlorobenze	ne	ND		5.2
1,2-Dichloroethane	•	ND		5.2
1,2-Dichloropropar	ne	ND		5.2
1,3-Dichlorobenze	ne	ND		5.2
1,4-Dichlorobenze	ne	ND		5.2
2-Butanone (MEK)	1	ND		26
2-Hexanone		ND		26
4-Methyl-2-pentan	one (MIBK)	ND		26
Acetone		ND		26
Benzene		ND		5.2
Bromodichloromet	hane	ND		5.2
Bromoform		ND		5.2
Bromomethane		ND		5.2
Carbon disulfide		ND		5.2
Carbon tetrachloric	de	ND		5.2
Chlorobenzene		ND		5.2
Chloroethane		ND		5.2
Chloroform		ND		5.2
Chloromethane		ND		5.2
cis-1,2-Dichloroeth	nene	ND		5.2
cis-1,3-Dichloropro		ND		5.2
Cyclohexane		ND		5.2
Dibromochloromet	hane	ND		5.2
Dichlorodifluorome		ND		5.2
Ethylbenzene		ND		5.2
Isopropylbenzene		ND		5.2
Methyl acetate		ND		5.2
Methyl tert-butyl el	ther	ND		5.2
Methylcyclohexan		ND		5.2
Methylene Chlorid		ND		5.2
Styrene	-	ND		5.2
Tetrachloroethene		ND		5.2
Toluene		ND		5.2
trans-1,2-Dichloro	ethene	ND		5.2
trans-1,3-Dichloro		ND		5.2
Trichloroethene	proporto	ND		5.2
Trichlorofluoromet	hane	ND		5.2
manoronuoronnet	i iai ie	NO		V.E.

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

Analysis Method:

8260B 5030B Analysis Batch:

480-24751

Instrument ID:

HP5973F

Prep Method:

Prep Batch:

N/A

Lab File ID:

Dilution:

1.0

Initial Weight/Volume: Final Weight/Volume:

F2705.D 5.06 g

Analysis Date:

07/23/2011 1917

Prep Date:

07/23/2011 1917

5 mL

Qualifier

RL

5.2

10

Analyte Vinyl chloride Xylenes, Total DryWt Corrected: Y

ND ND

Result (ug/Kg)

Qualifier Acceptance Limits

Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr)

94 92 84

%Rec

64 - 126 72 - 126 71 - 125

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample iD:

SB-3-3-4

Lab Sample ID:

480-7605-14

Client Matrix:

07/23/2011 1917

07/23/2011 1917

Analyte

Solid

% Moisture:

5.2

Date Sampled: 07/19/2011 1320

Date Received: 07/22/2011 0940

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: Prep Method:

8260B 5030B Analysis Batch:

480-24751

0

Instrument ID:

HP5973F

Dilution:

Analysis Date: Prep Date:

Cas Number

1.0

Prep Batch:

N/A

Lab File ID:

F2705.D

Initial Weight/Volume:

5.06 g

Final Weight/Volume:

5 mL

Tentatively Identified Compounds

Number TIC's Found:

RT

Est. Result (ug/Kg)

0

Qualifier

Tentatively Identified Compound

None

Job Number: 480-7605-1

Client Sample ID:

SB-4-2-3

Lab Sample ID:

480-7605-15

Client Matrix:

Solid

% Moisture:

Result (ug/Kg)

ND

4.6

Date Sampled: 07/19/2011 1410

Date Received: 07/22/2011 0940

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: Prep Method:

8260B 5030B Analysis Batch:

480-24751

Instrument ID:

Qualifier

HP5973F

Dilution:

1,1,1-Trichloroethane

4 4 0 0 Takanahilana akh

1.0

Prep Batch:

N/A

Lab File ID:

F2706.D

Analysis Date:

Initial Weight/Volume:

5.09 g

Analyte

07/23/2011 1942

DryWt Corrected: Y

	•
Final	Weight/Volume:

5 mL

RL

5.1

5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 26 26 26 26 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1

Prep	Date:

07/23/2011 1942

1,1,2,2-Tetrachloroethane	ND	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	
1,1,2-Trichloroethane	ND	
1,1-Dichloroethane	ND	
1,1-Dichloroethene	ND	
1,2,4-Trichlorobenzene	ND	
1,2-Dibromo-3-Chloropropane	ND	
1,2-Dibromoethane	ND	
1,2-Dichlorobenzene	ND	
1,2-Dichloroethane	ND	
1,2-Dichloropropane	ND	
1,3-Dichlorobenzene	ND	
1,4-Dichlorobenzene	ND	
2-Butanone (MEK)	ND	
2-Hexanone	ND	
4-Methyl-2-pentanone (MIBK)	ND	
Acetone	ND	
Benzene	ND	
Bromodichloromethane	ND	
Bromoform	ND	
Bromomethane	ND	
Carbon disulfide	ND	
Carbon tetrachloride	ND	
Chlorobenzene	ND	
Chloroethane	ND	
Chloroform	ND	
Chloromethane	ND	
cis-1,2-Dichloroethene	ND	
cis-1,3-Dichloropropene	ND	
Cyclohexane	ND	
Dibromochloromethane	ND	
Dichlorodifluoromethane	ND	
Ethylbenzene	ND	
Isopropylbenzene	ND	
Methyl acetate	ND	
Methyl tert-butyl ether	ND	
AA-H I I I I I I I I I I I I I I I I I I I	Ne	

ND

ND

ND

ND

ND

ND

ND

ND

ND

5.1

5.1

5.1

5.1

5.1 5.1

5.1

5.1 5.1

Trichlorofluoromethane

Methylcyclohexane

Methylene Chloride

Tetrachloroethene

Trichloroethene

trans-1,2-Dichloroethene

trans-1,3-Dichloropropene

Styrene

Toluene

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

Analysis Method:

8260B 5030B Analysis Batch:

480-24751

Instrument ID:

HP5973F

Prep Method:

Prep Batch:

N/A

Lab File ID:

F2706.D

Dilution:

1.0

Analysis Date:

Initial Weight/Volume:

5.09 g

07/23/2011 1942

Final Weight/Volume:

5 mL

Prep Date:

07/23/2011 1942

DryWt Corrected: Y

Result (ug/Kg)

Qualifier

RL

Analyte Vinyl chloride Xylenes, Total

Toluene-d8 (Surr)

ND

ND

Qualifier

5.1 10

Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr)

72 - 126 71 - 125

64 - 126

Acceptance Limits

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

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: Prep Method:

8260B 5030B Analysis Batch:

480-24751

Instrument ID:

HP5973F

Dilution:

1.0

Prep Batch:

N/A

Lab File ID:

F2706.D

Tentatively Identified Compounds

Initial Weight/Volume:

5.09 g

5 mL

Analysis Date: Prep Date:

07/23/2011 1942 07/23/2011 1942

Number TIC's Found:

0

Cas Number

Analyte

RT

Est. Result (ug/Kg)

Qualifier

Tentatively Identified Compound

None

Final Weight/Volume:

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

0000D 1/-1-40-	A !	A	(OOMEON
8260B Volatile	Urganic	Compounds	(GC/MS)

Analysis Method: Prep Method:

8260B 5030B Analysis Batch:

480-24755

Instrument ID:

HP5973C

Dilution:

1.0

Prep Batch:

N/A

Lab File ID:

C12584.D

Analysis Date:

07/24/2011 1813

Initial Weight/Volume: Final Weight/Volume:

5 mL 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 ND	1.0
Trichloroethene	ND	1.0
manoroenene	140	1.0

1.0

ND

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	8260B Voia	tile Organic	Compounds	(GC/MS
---	------------	--------------	-----------	--------

Analysis Method: Prep Method:

8260B 5030B Analysis Batch: Prep Batch:

480-24755 N/A

Instrument ID:

Qualifier

Qualifier

HP5973C Lab File ID:

Initial Weight/Volume:

C12584.D

Dilution:

1.0 07/24/2011 1813

Analysis Date:

Final Weight/Volume:

5 mL 5 mL

Prep Date:

Vinyl chloride

Xylenes, Total

Toluené-d8 (Surr)

Analyte

07/24/2011 1813

Result (ug/L) ND ND

RL 1.0 2.0

Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr)

66 - 137 73 - 120 71 - 126

Acceptance Limits

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 Voiatile Organic Compounds (GC/MS)

Analysis Method: Prep Method:

8260B

5030B

Dilution:

1.0

Analysis Date: Prep Date:

07/24/2011 1813

07/24/2011 1813

Analysis Batch: Prep Batch:

480-24755

N/A

Instrument ID: Lab File ID:

HP5973C C12584.D

Initial Weight/Volume:

5 mL

Final Weight/Volume:

5 mL

Tentatively Identified Compounds

Number TIC's Found:

Est. Result (ug/L)

Qualifier

Cas Number 420-56-4

Silane, fluorotrimethyl-

Unknown

Analyte

5.38 8.25

RT

2.6 6.3 TJN ΤJ

Job Number: 480-7605-1

Client Sample ID:

DUP-071911

Lab Sample ID:

480-7605-17FD

Client Matrix:

Solid

% N

% Moisture:

4.9

Date Sampled: 07/19/2011 0000

Date Received: 07/22/2011 0940

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: Prep Method:

8260B 5030B Analysis Batch:

480-24751

Instrument ID:

HP5973F

Dilution:

1.0

Prep Batch:

N/A

Lab File ID: Initial Weight/Volume: F2707.D 5.04 g

Analysis Date:

1.0

07/23/2011 2008

Final Weight/Volume:

5 mL

2ren	Date:
	Duto.

07/23/2011 2008

1,1,1-Trichioroethane ND 52 1,1,2-Tetechloroethane ND 52 1,1,2-Trichioroethane ND 52 1,1-Trichioroethane ND 52 1,1-Dichioroethane ND 52 1,1-Dichioroethane ND 52 1,1-Dichioroethane ND 52 1,2-Dichromo-3-Chloropropane ND 52 1,2-Dichioroethane ND 52 1,3-Dichioroethane ND 52 1,3-Dichioroethane ND 52 1,4-Dichioroethane ND 52 2-Butanone (MEK) ND 26 2-Hexanone ND 26 4-Methyl-2-pentanone (MIBK) ND 26 Benzane<	Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
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-Dichloroberhane ND 5.2 1,2-Dichloroberzene ND 5.2 1,2-Dichloropropane ND 5.2 1,2-Dichloroberzene ND 5.2 1,2-Dichloropropane ND 5.2 1,2-Dichloropropane ND 5.2 1,3-Dichloropropane ND 5.2 1,3-Dichlorobenzene ND 5.2 1,3-Dichlorobenzene ND 5.2 1,4-Dichlorobenzene ND 5.2 1,4-Dichlorobenzene ND 5.2 2-Hesanone ND 5.2 2-Hesanone ND 5.2 2-Hesanone ND 26 4-Methyl-2-pentanone (MIBK) ND 26 4-Methyl-2-pentanone (MIBK) ND 26 5-condicibloroethane ND 5.2 15 comoform ND 5.2	1,1,1-Trichloroethane		ND		5.2
1,1,2-Trichloroethane ND 5.2 1,1-Dichloroethane ND 5.2 1,1-Dichloroethane ND 5.2 1,2-Dibromos-Chloropropane ND 5.2 1,2-Dibromos-Chloropropane ND 5.2 1,2-Dichlorobenzene ND 5.2 1,2-Dichloroethane ND 5.2 1,2-Dichloropopane ND 5.2 1,2-Dichlorobenzene ND 5.2 1,3-Dichlorobenzene ND 5.2 1,4-Dichlorobenzene ND 5.2 1,4-Dichloroethane (MIBK) ND 26 2-Hexanone ND 26 Benzene ND 26 Bernedorn ND 5.2 Bromodichloromethane ND 5.2 Bromomethane ND 5.2 Chloroet	1,1,2,2-Tetrachloroet	hane	ND		5.2
1,1-Dichloroethane ND 5.2 1,1-Dichloroethane ND 5.2 1,2-A-Trichloroberzene ND 5.2 1,2-Dibromo-3-Chloropropane ND 5.2 1,2-Dibromo-shane ND 5.2 1,2-Dichloroethane ND 5.2 1,2-Dichloropropane ND 5.2 1,2-Dichloropropane ND 5.2 1,3-Dichlorobenzene ND 5.2 1,3-Dichlorobenzene ND 5.2 1,3-Dichlorobenzene ND 5.2 2-Butanone (MEK) 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 Bromodorm ND 5.2 Bromodorm ND 5.2 Carbon tetrachloride ND 5.2 Carbon tetrachloride	1,1,2-Trichloro-1,2,2-	trifluoroethane	ND		5.2
1,1-Dichloroethene ND 5.2 1,2-Pitrichlorobenzene 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 1,2-Dichlorobenzene ND 5.2 1,2-Dichlorobenzene ND 5.2 1,4-Dichlorobenzene ND 5.2 1,4-Dichlorobenzene ND 5.2 2-Butanone (MEK) ND 26 2-Hexanone ND 26 4-Methyt-2-pentanone (MIBK) ND 26 4-Methyt-2-pentanone (MIBK) ND 26 4-Methyt-2-pentanone (MIBK) ND 26 Benzene ND 26 Benzene ND 26 Benzene ND 5.2 Bromodichloromethane ND 5.2 Bromodichloromethane ND 5.2 Chlorobenzene ND 5.2 Chloroform	1,1,2-Trichloroethane	•	ND		5.2
1,2,4-Trichlorobenzene ND 5.2 1,2-Dibromo-3-Chloropropane ND 5.2 1,2-Dibromo-strone ND 5.2 1,2-Dichlorobenzene ND 5.2 1,2-Dichlorobenzene ND 5.2 1,2-Dichlorobenzene ND 5.2 1,3-Dichlorobenzene ND 5.2 1,4-Dichlorobenzene ND 5.2 2-Haxanone ND 26 2-Hexanone ND 26 4-Methyl-2-pentanone (MIBK) ND 26 4-Methyl-2-pentanone (MIBK) ND 26 Acetone ND 26 Benzene ND 26 Benzene ND 26 Bromodichloromethane ND 5.2 Bromodishife ND 5.2 Carbon tetrachloride ND 5.2 Chlorobenzene ND 5.2 Chlorocethane ND 5.2 Chlorocethane ND 5.2 Chlorocethane ND	1,1-Dichloroethane		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-Dichloropethane ND 5.2 1,2-Dichlorobenzene ND 5.2 1,3-Dichlorobenzene ND 5.2 1,4-Dichlorobenzene ND 5.2 2-Hexanore ND 5.2 2-Hexanore ND 26 2-Hexanore ND 26 4-Methyl-2-pentanone (MIBK) ND 26 4-Methyl-2-pentanone (MIBK) ND 26 Benzene ND 26 Berzene ND 5.2 Bromodichloromethane ND 5.2 Bromodichloromethane ND 5.2 Bromodichloromethane ND 5.2 Carbon disulfide ND 5.2 Carbon disulfide ND 5.2 Chlorobenzene ND 5.2 Chloroform ND 5.2 Chloroform ND	1,1-Dichloroethene		ND		5.2
1,2-Dibromoethane ND 5.2 1,2-Dichlorobenzene ND 5.2 1,2-Dichloropethane ND 5.2 1,2-Dichlorobenzene 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 26 Benzene ND 26 Bermoform ND 5.2 Bromoform ND 5.2 Bromoform ND 5.2 Bromoform ND 5.2 Carbon disulfide ND 5.2 Carbon tetrachloride ND 5.2 Chloroethane ND 5.2 Chloroethane ND 5.2 Chloroethane ND 5.2 Chloroethane ND 5.2 cis-1,3	1,2,4-Trichlorobenzer	ne	ND		5.2
1,2-Dichlorobenzene ND 5.2 1,2-Dichlororethane 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 Acetone ND 26 Benzene ND 5.2 Bromofchloromethane ND 5.2 Bromoform ND 5.2 Bromoform ND 5.2 Bromoform ND 5.2 Carbon disulfide ND 5.2 Carbon disulfide ND 5.2 Chlorobenzene ND 5.2 Chlorobenzene ND 5.2 Chlorobenzene ND 5.2 Chlorobenzene ND 5.2 Chloroform ND 5.2 Chl	1,2-Dibromo-3-Chloro	ppropane	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 26 2-Butanone (MEK) ND 26 2-Hexanone ND 26 4-Methyl-2-pentanone (MIBK) ND 26 4-Methyl-2-pentanone (MIBK) ND 26 Acetone ND 26 Benzene ND 5.2 Bromodichloromethane ND 5.2 Bromoform ND 5.2 Bromoform ND 5.2 Bromoform ND 5.2 Carbon disulfide ND 5.2 Carbon tetrachloride ND 5.2 Chloroethane ND 5.2 Chloroethane ND 5.2 Chloromethane ND 5.2 Chloromethane ND 5.2 cis-1,3-Dichloroethene ND 5.2 cis-1,3-Dichloroethene ND 5.2 <td>1,2-Dibromoethane</td> <td></td> <td>ND</td> <td></td> <td>5.2</td>	1,2-Dibromoethane		ND		5.2
1,2-Dichloropropane	1,2-Dichlorobenzene		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 Bromodishloromethane ND 5.2 Bromodishloromethane ND 5.2 Bromodishlore ND 5.2 Carbon testrachloride ND 5.2 Carbon testrachloride ND 5.2 Chlorobenzene ND 5.2 Chloromethane ND 5.2 Cyclohexane ND 5.2 <td>1,2-Dichloroethane</td> <td></td> <td>ND</td> <td></td> <td>5.2</td>	1,2-Dichloroethane		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 Cis-1,2-Dichloropethane ND 5.2 Dichlorodifluoromethane ND 5.2 <t< td=""><td>1,2-Dichloropropane</td><td></td><td>ND</td><td></td><td>5.2</td></t<>	1,2-Dichloropropane		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 Bromodethane ND 5.2 Carbon disulfide ND 5.2 Carbon tetrachloride ND 5.2 Chlorobenzene ND 5.2 Chlorobenzene ND 5.2 Chloroform ND 5.2 Chloroform ND 5.2 Chloromethane ND 5.2 Chloromethane ND 5.2 cis-1,3-Dichloropropene ND 5.2 Cyclohexane ND 5.2 Dibromochloromethane ND 5.2 Dibromochloromethane ND 5.2 Ethyllenzene ND 5.2 Isopropylbenzene ND 5.2	1,3-Dichlorobenzene		ND		5.2
2-Hexanone ND 26 4-Methyl-2-pentanone (MIBK) ND 26 Acetone ND 26 Benzene ND 5.2 Bromoform ND 5.2 Bromoform ND 5.2 Bromomethane ND 5.2 Carbon disulfide ND 5.2 Carbon disulfide ND 5.2 Chiorobromethane ND 5.2 Chiorobrazene ND 5.2 Chiorobrane ND 5.2 Chiorobrane ND 5.2 Chiorobrane ND 5.2 cis-1,2-Dichloroethene ND 5.2 cis-1,3-Dichloropropene ND 5.2 cis-1,3-Dichloropropene ND 5.2 Cyclohexane ND 5.2 Dichlorodifluoromethane ND 5.2 Eithylbenzene ND 5.2 Isopropylbenzene ND 5.2 Methyl carbate ND 5.2	1,4-Dichlorobenzene		ND		5.2
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 Cyclohexane ND 5.2 Cyclohexane ND 5.2 Dibriorodifloromethane ND 5.2 Isopropylbenzene ND 5.2 M	2-Butanone (MEK)		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 Chloroform ND 5.2 Chloroform ND 5.2 Chloromethane ND 5.2 cis-1,2-Dichloroethene ND 5.2 cis-1,2-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 tetr-bulyl ether ND 5.2 Methyl tetr-bulyl ether ND 5.2 Methyl tetr-bulyl ether ND 5	2-Hexanone		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 Chlorobenzene ND 5.2 Chloroform ND 5.2 Chloroforme ND 5.2 Chloromethane ND 5.2 cis-1,2-Dichloropropene ND 5.2 Cyclohexane ND 5.2 Dibromochloromethane ND 5.2 Dichlorodifluoromethane ND 5.2 Eitylbenzene ND 5.2 Isopropylbenzene ND 5.2 Methyl acetate ND 5.2 Methyl eth-butyl ether ND 5.2 Methylene Chloride ND 5.2 Styrene ND 5.2 Tetrachloroethene ND 5.2	4-Methyl-2-pentanone	e (MIBK)	ND		26
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 Chloroform ND 5.2 Chloromethane ND 5.2 Chloromethane ND 5.2 cis-1,2-Dichloropropene ND 5.2 Cyclohexane ND 5.2 Cyclohexane ND 5.2 Dibromochloromethane ND 5.2 Dichlorodifluoromethane ND 5.2 Ethylbenzene ND 5.2 Isopropylbenzene ND 5.2 Methyl cetate ND 5.2 Methyl sert-butyl ether ND 5.2 Methyl collaberane ND 5.2 Methyl collaberane ND 5.2 Tetrachloroethene ND 5.2 Tetrachloroethene ND <td< td=""><td>Acetone</td><td></td><td>ND</td><td></td><td>26</td></td<>	Acetone		ND		26
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-1,2-Dichloropropene ND 5.2 Cyclohexane ND 5.2 Cyclohexane ND 5.2 Dichlorodifluoromethane ND 5.2 Ethylbenzene ND 5.2 Isopropylbenzene ND 5.2 Methyl acetate ND 5.2 Methyl ert-butyl ether ND 5.2 Methylene Chloride ND 5.2 Styrene ND 5.2 Styrene ND 5.2 Tetrachloroethene ND 5.2 trans-1,2-Dichloroptopene ND 5.2 <	Benzene		ND		5.2
Bromomethane ND 5.2 Carbon disulfide ND 5.2 Carbon tetrachloride ND 5.2 Chlorobenzene ND 5.2 Chlorobenzene ND 5.2 Chloroform ND 5.2 Chloroform ND 5.2 Chloromethane ND 5.2 cis-1,2-Dichloropthene ND 5.2 cis-1,3-Dichloropropene ND 5.2 Cyclohexane ND 5.2 Cyclohexane ND 5.2 Dibromochloromethane ND 5.2 Dichlorodifluoromethane ND 5.2 Ethylbenzene ND 5.2 Itsopropylbenzene ND 5.2 Methyl acetate ND 5.2 Methyl tetr-butyl ether ND 5.2 Methylene Chloride ND 5.2 Methylene Chloride ND 5.2 Styrene ND 5.2 Tetrachloroethene ND 5.2<	Bromodichloromethar	ne	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 Methylcyclohexane ND 5.2 Methylene Chloride ND 5.2 Styrene ND 5.2 Tetrachloroethene ND 5.2 Totluene ND 5.2 trans-1,2-Dichloroethene ND	Bromoform		ND		5.2
Carbon tetrachloride ND 5.2 Chloroebenzene 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 Dichlorodifluoromethane ND 5.2 Ethylbenzene ND 5.2 Isopropylbenzene ND 5.2 Methyl acetate ND 5.2 Methyl tetr-butyl ether ND 5.2 Methylcyclohexane ND 5.2 Methylene Chloride ND 5.2 Styrene ND 5.2 Tetrachloroethene ND 5.2 Trans-1,2-Dichloroethene ND 5.2 trans-1,3-Dichloropropene ND 5.2 Trichloroethene	Bromomethane		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 acetate ND 5.2 Methyl tert-butyl ether ND 5.2 Methylene Chloride 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	Carbon disulfide		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 Dichlorodifluoromethane ND 5.2 Ethylbenzene ND 5.2 Isopropylbenzene ND 5.2 Methyl acetate ND 5.2 Methyl tert-butyl ether ND 5.2 Methylene Chloride 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 Trichloroethene <td< td=""><td>Carbon tetrachloride</td><td></td><td>ND</td><td></td><td>5.2</td></td<>	Carbon tetrachloride		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 Methylere Chloride 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 Trichloroethene ND 5.2	Chlorobenzene		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 Trichloroethene ND 5.2	Chloroethane		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 Trichloroethene ND 5.2	Chloroform		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	Chloromethane		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	cis-1,2-Dichloroethen	e	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	cis-1,3-Dichloroprope	ne	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 Trichloroethene ND 5.2	Cyclohexane		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	Dibromochloromethai	ne	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	Dichlorodifluorometha	ane	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	Ethylbenzene		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	Isopropylbenzene		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	Methyl acetate		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	Methyl tert-butyl ether	r	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	Methylcyclohexane		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	Methylene Chloride		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	Styrene		ND		5.2
trans-1,2-Dichloroethene ND 5.2 trans-1,3-Dichloropropene ND 5.2 Trichloroethene ND 5.2	Tetrachloroethene		ND		5.2
trans-1,3-Dichloropropene ND 5.2 Trichloroethene ND 5.2			ND		
Trichloroethene ND 5.2	trans-1,2-Dichloroeth	ene	ND		5,2
	trans-1,3-Dichloropro	pene	ND		5,2
Trichlorofluoromethane ND 5.2	Trichloroethene		ND		5 2
	Trichlorofluoromethar	ne	ND		5.2

Job Number: 480-7605-1 Client: Brown and Caldwell

Client Sample ID:

DUP-071911

Lab Sample ID:

480-7605-17FD

Client Matrix:

Solid

% Moisture:

4.9

Date Sampled: 07/19/2011 0000

Date Received: 07/22/2011 0940

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: Prep Method:

8260B 5030B Prep Batch:

Analysis Batch: N/A

480-24751

Instrument ID: Lab File ID:

HP5973F F2707.D

Initial Weight/Volume:

5.04 g

Final Weight/Volume:

Analysis Date: Prep Date:

Dilution:

1.0

07/23/2011 2008

5 mL

Analyte

07/23/2011 2008

Result (ug/Kg)

Qualifier

RL 5.2

10

Vinyl chloride Xylenes, Total DryWt Corrected: Y

ND ND

%Rec

Acceptance Limits Qualifier 64 - 126

Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr)

94 93 85

72 - 126 71 - 125

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID:

DUP-071911

Lab Sample ID:

480-7605-17FD

Client Matrix:

Solid

% Moisture:

4.9

Date Sampled: 07/19/2011 0000

Date Received: 07/22/2011 0940

8260B Voiatile Organic Compounds (GC/MS)

Analysis Method: Prep Method:

8260B

Analysis Batch:

480-24751

Instrument ID:

HP5973F

Dilution:

Cas Number

5030B

Prep Batch:

Lab File ID:

F2707.D

Analysis Date:

1.0

N/A

Initial Weight/Volume:

5.04 g

Prep Date:

07/23/2011 2008 07/23/2011 2008

Analyte

Final Weight/Volume:

5 mL

Tentatively Identified Compounds

Number TIC's Found:

RT

0

Est. Result (ug/Kg)

Qualifier

Tentatively Identified Compound

None

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 Or	ganic Compo	unds (GC/MS)	
Analysis Method:	8270C		Analysis Batch:	480-25325	Instrument ID:	HP59 7 3V
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				Injection Volume:	1 uL
r rep bate.	07/27/2011				injection volume.	, 42
Analyte		·	Result (u	g/L)	Qualifier	RL
2,4,5-Trichlorophen			ND			5,2
2,4,6-Trichlorophen	iol		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-Chloronaphthaler	ne	7.5	ND			5.2
2-Chlorophenol			ND			5.2
2-Methylnaphthaler	ne		ND			5.2
2-Methylphenol			ND			5.2
2-Nitroaniline			ND			10
2-Nitrophenol			ND			5.2
3,3'-Dichlorobenzid	ine		ND			5.2
3-Nitroaniline			ND			10
4,6-Dinitro-2-methy			ND			10
4-Bromophenyl phe	-		ND			5.2
4-Chloro-3-methylp	henol		ND			5.2
4-Chloroaniline			ND			5.2
4-Chlorophenyl phe	enyl 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)anthracen	е		ND			5.2
Benzo(a)pyrene			ND			5.2
Benzo(b)fluoranthe			ND			5.2
Benzo(g,h,i)perylen			ND			5.2
Benzo(k)fluoranthe	ne		ND			5.2
Biphenyl			ND			5.2
bis (2-chloroisoprop			ND			5.2
Bis(2-chloroethoxy)			ND			5.2
Bis(2-chloroethyl)el			ND			5.2
Bis(2-ethylhexyl) ph			ND			5.2
Butyl benzyl phthal	ate		ND			5.2
Caprolactam			ND			5.2
Carbazole			ND			5.2
Chrysene			ND			5.2
Dibenz(a,h)anthrac	ene		ND			5.2
Dibenzofuran			ND			10
Diethyl phthalate			ND			5.2

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

oneric Madrix.	Valor				
		8270C Semivolatile O	ganic Compou	nds (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	
Prep Date:	07/27/2011 1441			Injection Volume:	1 uL
Analyte		Result (u	ıg/L)	Qualifier	RL
imethyl phthalate		ND			5.2
i-n-butyl phthalate	1	ND			5.2
)i-n-octyl phthalate		ND			5.2
luoranthene		ND			5.2
luorene		ND			5.2
lexachlorobenzene	•	ND			5.2
lexachlorobutadier	ne	ND			5.2
lexachlorocycloper	ntadiene	ND			5.2
lexachloroethane		ND			5.2
ndeno(1,2,3-cd)pyr	ene	ND			5.2
sophorone		ND			5.2
laphthalene		ND			5.2
litrobenzene		ND			5.2
N-Nitrosodi-n-propy	lamine	ND			5.2
I-Nitrosodiphenylai	mine	ND			5.2
Pentachlorophenol		ND			10
henanthrene		ND			5.2
Phenol		ND			5.2
Pyrene		ND			5.2
Surrogate		%Rec		Qualifier Accep	otance Limits
,4,6-Tribromophen	iol	111		52 - 1	
-Fluorobiphenyl		103		48 - 1	
?-Fluorophenol		52		20 - 1	20
litrobenzene-d5		98		46 - 1	20
Phenol-d5		32		16 - 1	20
-Terphenyl-d14		113		24 - 1	36

Job Number: 480-7605-1

Client: Brown and Caldwell

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:

Analysis Batch: Prep Batch:

480-25325

Instrument ID:

HP5973V

Prep Method:

3510C

Lab File ID:

Dilution:

1.0

480-25216

Initial Weight/Volume:

V3298.D

Analysis Date:

8270C

Final Weight/Volume:

970 mL

07/28/2011 1428

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	ΤJ
	Unknown	13.40	5.7	ΤJ
	Unknown	13.42	8.9	ΤJ
	Unknown	13.86	6.4	TJ
	Unknown	14.57	6.6	TJ -
	Unknown	15.37	5.5	ΤJ

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: Prep Method:	8270C 3510C	Analysis Batch: Prep Batch:	480-25325 480-25216	Instrument ID: Lab File ID:	HP5973V 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 (u	g/L)	Qualifier	RL	
2,4,5-Trichlorophen	ol	ND			5.1	
2,4,6-Trichlorophen	ol	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-Chloronaphthaler	ie	ND			5.1	
2-Chlorophenol		ND			5.1	
2-Methylnaphthaler	ie	ND			5.1	
2-Methylphenol		ND			5.1	
2-Nitroaniline		ND			10	
2-Nitrophenol		× ND			5.1	
3,3'-Dichlorobenzid	ine	ND			5.1	
3-Nitroaniline		ND			10	
4,6-Dinitro-2-methy	lphenol	ND			10	
4-Bromophenyl phe	nyl ether	ND			5.1	
4-Chloro-3-methylp	henol	ND			5.1	
4-Chloroaniline		ND			5.1	
4-Chlorophenyl phe	nyl 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	9	ND			5.1	
Benzo(a)pyrene		ND			5.1	
Benzo(b)fluoranther	ne	ND			5.1	
Benzo(g,h,i)perylen		ND			5.1	
Benzo(k)fluoranther		ND			5.1	
Biphenyl		ND			5.1	
bis (2-chloroisoprop	vI) ether	ND			5.1	
Bis(2-chloroethoxy)		ND			5.1	
Bis(2-chloroethyl)et		ND			5.1	
Bis(2-ethylhexyl) ph		ND			5.1	
Butyl benzyl phthala		ND			5.1	
Caprolactam		ND			5.1	
Carbazole		ND			5.1	
Chrysene	*	ND			5.1	
Dibenz(a,h)anthrace	ene	ND			5.1	
Dibenzofuran		ND			10	
Diethyl phthalate		ND			5.1	

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

BIIOTIC IVIGUIA:	*******						
		8270C Semivolatile Or	ganic Compou	ınds (GC/MS)			
Analysis Method:	8270C	Analysis Batch:	480-25325	Instrume	nt ID:	HP5973V	
Prep Method:	3510C	Prep Batch:	480-25216	Lab File	ID:	V3299.D	
Dilution:	1.0	•		Initial We	eight/Volume:	980 mL	
Analysis Date:	07/28/2011 1452			Final We	ight/Volume:	1 mL	
Prep Date:	07/27/2011 1441			Injection	-	1 uL	
Analyte		Result (u	ıg/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	9	ND				5.1	
-lexachlorobutadier	ne	ND				5.1	
-lexachlorocyclopei		ND				5.1	
Hexachloroethane		ND				5.1	
ndeno(1,2,3-cd)pyr	rene	ND				5.1	
sophorone		ND				5.1	
Naphthalene		ND				5.1	
Nitrobenzene		ND				5.1	
N-Nitrosodi-n-propy	/lamine	ND				5.1	
N-Nitrosodiphenyla		ND				5.1	
Pentachlorophenol		ND				10	
Phenanthrene		ND				5.1	
Phenol		ND				5.1	`
Pyrene		ND				5.1	
Surrogate		%Rec		Qualifier	Acceptano	e Limits	
2,4,6-Tribromopher	nol	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		

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

ΤJ

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:

8270C 3510C Analysis Batch:

480-25325

Instrument ID:

HP5973V

Prep Method: Dilution:

Cas Number

Lab File ID:

V3299.D

1.0

Prep Batch:

480-25216

Initial Weight/Volume:

980 mL

Analysis Date: Prep Date:

07/28/2011 1452 07/27/2011 1441

Analyte Unknown Unknown Unknown Unknown Unknown

Final Weight/Volume:

1 mL

Injection Volume:

15.36

1 uL

Tentatively Identified Compounds

Number TIC's Found:

5

RT	Est. Result (ug/L)	Qualifier
13.40	5.4	ΤJ
13.42	9.1	ΤJ
13.86	6.6	ΤJ
14.57	6.4	ΤJ

5.8

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)						
	١.	ICC/MS)	Compounde	Organia	* Samiualatila	8270C

		8270C Semivolatile Or	ganic Compo	ınds (GC/MS)			
Analysis Method: Prep Method: Dilution: Analysis Date: Prep Date:	8270C 3510C 1.0 07/28/2011 1515 07/27/2011 1441	Analysis Batch: Prep Batch:	480-25325 480-25216		ID: sight/Volume: ight/Volume:	HP5973V V3300.D 950 mL 1 mL 1 uL	
Analyte		Result (u	n/l)	Qualifier		RL	
2,4,5-Trichloropher	nal	ND	9, _,	Qualifici		5.3	
2,4,6-Trichloropher		ND				5.3	
2,4-Dichlorophenol		ND				5.3	
2,4-Dimethylpheno		ND				5.3	
2,4-Dinitrophenol	'1	ND				11	
2,4-Dinitrotoluene		ND				5.3	
2,6-Dinitrotoluene		ND				5.3	
2-Chloronaphthale	ne	ND				5.3	
2-Chlorophenol		ND				5.3	
2-Methylnaphthale	ne	ND				5.3	
2-Methylphenol		ND				5.3	
2-Nitroaniline		ND				11	
2-Nitrophenol		ND				5.3	
3,3'-Dichlorobenzio	fine	ND				5.3	
3-Nitroaniline		ND				11	
4,6-Dinitro-2-methy	/lphenol	ND				11	
4-Bromophenyl phe	enyl ether	ND				5.3	
4-Chloro-3-methylp		ND				5.3	
4-Chloroaniline		ND				5.3	
4-Chlorophenyl phe	enyl 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)anthracen	ne	ND				5.3	
Benzo(a)pyrene		ND				5.3	
Benzo(b)fluoranthe		ND				5.3	
Benzo(g,h,i)peryler		ND				5.3	
Benzo(k)fluoranthe	ne	ND				5.3	
Biphenyl		ND				5.3	
bis (2-chloroisopro		ND				5.3	
Bis(2-chloroethoxy)	•	ND				5.3	
Bis(2-chloroethyl)e		ND				5.3	
Bis(2-ethylhexyl) pl		ND				5.3 5.3	
Butyl benzyl phthal	ale	ND ND				5.3 5.3	
Caprolactam Carbazole		ND ND				5.3	
Carbazole Chrysene		ND ND				5.3 5.3	
Dibenz(a,h)anthrac	rene	ND ND				5.3 5.3	
Dibenzofuran	ione .	ND ND				11	
Diethyl phthalate		ND ND				5.3	
Dietriyi pritrialate		NU				J. J	

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

Cilentiviatrix.	vvalei				Date	Received, 0772272011 08
		8270C Semivolatile O	rganic Compo	ınds (GC/MS)		
Analysis Method:	8270C	Analysis Batch:	480-25325	Instrun	nent ID:	HP5973V
Prep Method:	3510C	Prep Batch:	480-25216	Lab Fil	e ID:	V3300.D
Dilution:	1.0	•		Initial V	Veight/Volume:	950 mL
Analysis Date:	07/28/2011 1515				Veight/Volume:	1 mL
Prep Date:	07/27/2011 1441				n Volume:	1 uL
Analyte		Result (u	g/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
lexachlorobenzene	•	ND				5.3
lexachlorobutadier	ne	ND				5.3
lexachlorocyclope:	ntadiene	ND				5.3
Hexachloroethane		ND				5.3
ndeno(1,2,3-cd)pyr	ene	ND				5.3
sophorone		ND				5.3
Naphthalene		ND				5.3
Vitrobenzene		ND				5.3
N-Nitrosodi-n-propy	lamine	ND				5.3
I-Nitrosodiphenyla	mine	ND				5.3
Pentachlorophenol		ND				11
henanthrene		ND				5.3
henol		ND				5.3
Pyrene		ND				5.3
Surrogate		%Rec		Qualifier	Acceptan	ce Limits
2,4,6-Tribromophen	ol	114			52 - 132	
?-Fluorobiphenyl		106			48 - 120	
?-Fluorophenol		53			20 - 120	
Nitrobenzene-d5		102			46 - 120	
Phenol-d5		33			16 - 120	
o-Terphenyl-d14		110			24 - 136	

Qualifier

ΤJ

ΤJ

ΤJ

Job Number: 480-7605-1

Client: Brown and Caldwell

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: Prep Method:

Prep Date:

Cas Number

8270C

Analyte

Unknown

Unknown

Unknown

Unknown

Unknown

Unknown

3510C

1.0

Dilution: Analysis Date:

07/28/2011 1515

07/27/2011 1441

Analysis Batch: Prep Batch:

480-25325

480-25216

Instrument ID:

Lab File ID:

HP5973V V3300.D

Initial Weight/Volume:

950 mL 1 mL

Final Weight/Volume: Injection Volume:

7.1

1 uL

Tentatively Identified Compounds

Number TIC's Found:

6

Est. Result (ug/L) RT 13.39 4.3

13.42

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

Analysis Method:	8270C	Analysis Batch:	480-25325	Instrument ID:	HP5973∨
Prep Method:	3510C	Prep Batch:	480-25216	Lab File ID:	V3301.D
Dilution:	1.0	p Baton.		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
rop Bato.	07/21/2011 7111			injection volume.	I UL
Analyte		Result (u	g/L) Qu	alifier	RL
2,4,5-Trichlorophen		ND			5.0
2,4,6-Trichlorophen	ol	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-Chloronaphthalen	ie	ND			5.0
2-Chlorophenol		ND			5.0
?-Methylnaphthalen	ne	ND			5.0
?-Methylphenol		ND			5.0
?-Nitroaniline		ND			10
-Nitrophenol		ND			5.0
,3'-Dichlorobenzidi	ine	ND			5.0
-Nitroaniline		ND			10
,6-Dinitro-2-methyl	phenol	ND			10
-Bromophenyl phe	nyl ether	ND			5.0
-Chloro-3-methylph	henol	ND			5.0
-Chloroaniline		ND			5.0
-Chlorophenyl phe	nyl ether	ND			5.0
-Methylphenol		ND			10
-Nitroaniline		ND			10
-Nitrophenol		ND			10
cenaphthene		ND			5.0
cenaphthylene		ND			5.0
cetophenone		ND			5.0
nthracene		ND			5.0
trazine		ND V	7		5.0
enzaldehyde		ND			5.0
enzo(a)anthracene	•	ND			5.0
enzo(a)pyrene		ND			5.0
enzo(b)fluoranthen		ND			5.0
enzo(g,h,i)perylene		ND			5.0
enzo(k)fluoranthen	e	ND			5.0
iphenyl		ND			5.0
is (2-chloroisopropy		ND			5.0
is(2-chloroethoxy)r		ND			5.0
is(2-chloroethyl)eth		ND			5.0
is(2-ethylhexyl) phi		ND			5.0
utyl benzyl phthala	te	ND			5.0
aprolactam		ND			5.0
arbazole		ND			5.0
hrysene		ND			5.0
ibenz(a,h)anthrace	ene	ND			5.0
ibenzofuran		ND			10
iethyl phthalate		ND			5.0

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

Cheffit Matrix.	vvalci				Date Received, 0772272011 094
		8270C Semivolatile O	rganic Compo	unds (GC/MS)	
Analysis Method:	8270C	Analysis Batch:	480-25325	Instrumer	nt ID: HP5973V
Prep Method:	3510C	Prep Batch:	480-25216	Lab File I	D: V3301.D
Dilution:	1.0			Initial We	ight/Volume: 1000 mL
Analysis Date:	07/28/2011 1539			Final Wei	ght/Volume: 1 mL
Prep Date:	07/27/2011 1441			Injection \	_
Analyte		Result (u	ıg/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	9	ND			5.0
Hexachlorobutadier	ne	, ND			5.0
Hexachlorocyclope	ntadiene	ND			5.0
Hexachloroethane		ND			5.0
Indeno(1,2,3-cd)pyr	rene	ND			5.0
Isophorone		ND			5.0
Naphthalene		ND			5.0
Nitrobenzene		ND			5.0
N-Nitrosodi-n-propy	rlamine	ND			5.0
N-Nitrosodiphenyla	mine	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-Tribromophen	nol	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

Job Number: 480-7605-1

Client: Brown and Caldwell

Client Sample ID:

GWP-9-10-12

Lab Sample ID:

480-7605-11

Client Matrix:

Water

07/28/2011 1539

Analyte Unknown Unknown Unknown Unknown Unknown Unknown

Unknown

Date Sampled: 07/21/2011 1025 Date Received: 07/22/2011 0940

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method: Prep Method:

Analysis Date:

Prep Date:

Cas Number

Dilution:

8270C 3510C 1.0

Analysis Batch:

480-25325

Instrument ID:

HP5973V

Prep Batch:

480-25216 Lab File ID:

16.40

V3301.D

Initial Weight/Volume: Final Weight/Volume:

1000 mL

ΤJ

Injection Volume:

1 mL

07/27/2011 1441

1 uL

Tentatively Identified Compounds

Number TIC's Found:

7

RT	Est. Result (ug/L)	Qualifier
13.40	7.5	TJ
13.42	9.2	ΤJ
13.86	4.9	ΤJ
14.01	5.1	ΤJ
14.57	6.2	ΤJ
15.37	5.4	ΤJ

4.1

Job Number: 480-7605-1 Client: Brown and Caldwell

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 C	Compounds ((GC/MS)
--------------------	-----------	-------------	---------

Analysis Method:

8270C

Analysis Batch:

480-25140

Instrument ID:

HP5973V

Prep Method: Dilution:

3550B

Prep Batch:

480-24999

Lab File ID:

V3260.D

20

Initial Weight/Volume:

+30.52 g

Analysis Date: Prep Date:

07/27/2011 1746 07/26/2011 1047 Final Weight/Volume: Injection Volume:

1 mL 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	8	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
3enzaldehyde		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

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

Analysis Method: Prep Method:

8270C 3550B Analysis Batch:

480-25140

Instrument ID:

HP5973V

Dilution:

20

Prep Batch:

480-24999

Lab File ID: Initial Weight/Volume: V3260.D

Analysis Date:

Final Weight/Volume:

+30.52 g

07/27/2011 1746

1 mL

Prep Date: 0	07/26/2011 1047		Injectio	n 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
-lexachlorobutadiene		ND		3600
Hexachiorocyclopenta	diene	ND		3600
Hexachloroethane		ND		3600
Indeno(1,2,3-cd)pyren	e	ND		3600
sophorone		ND		3600
Naphthalene		ND		3600
Vitrobenzene		ND		3600
N-Nitrosodi-n-propylan	nine	ND		3600
N-Nitrosodiphenylamin	ne	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
o-Terphenyl-d14		108		58 - 147

Job Number: 480-7605-1

Client: Brown and Caldwell

Client Sample ID:

SB-1-1.5-2.5

Lab Sample ID:

480-7605-12

Client Matrix:

Solid

% Moisture:

Date Sampled: 07/19/2011 1000

Date Received; 07/22/2011 0940

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:

8270C 3550B Analysis Batch:

480-25140

7.0

Instrument ID:

HP5973V

Prep Method:

Prep Batch:

480-24999

Lab File ID:

Dilution:

20

V3260.D

+30.52 g

Analysis Date:

Initial Weight/Volume:

Prep Date:

07/27/2011 1746 07/26/2011 1047

Unknown

Final Weight/Volume: Injection Volume:

1 mL 1 uL

Tentatively Identified Compounds

Number TIC's Found:

14

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

Job Number: 480-7605-1

Client Sample ID:

SB-2-2.5-3.5

Lab Sample ID:

480-7605-13

Client Matrix:

Solid

% Moisture:

4.4

Date Sampled: 07/19/2011 1220

Date Received: 07/22/2011 0940

	Organic Compounds (GC/MS)
--	---------------------------

Analysis Method:

8270C 3550B

Analysis Batch:

480-25140

Instrument ID:

HP5973V

Prep Method: Dilution:

Prep Batch:

480-24999

Lab File ID:

V3261.D

Analysis Date:

1.0

Initial Weight/Volume:

+30.05 g

Prep Date:

07/27/2011 1810 07/26/2011 1127

Final Weight/Volume: Injection Volume:

1 mL 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	1	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
Diediyi pililalate		NU		100

Job Number: 480-7605-1

Client Sample ID:

SB-2-2.5-3.5

Lab Sample ID:

480-7605-13

Client Matrix:

Solid

% Moisture:

4.4

Date Sampled: 07/19/2011 1220

Date Received: 07/22/2011 0940

8270C Semivolatile	Organic	Compounds	(GC/MS)
82/UC Semivolatile	Organic	Colliboning	

Analysis Method:

8270C 3550B

Analysis Batch:

480-25140

Instrument ID:

HP5973V

Prep Method:

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

1 uL Injection Volume:

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	

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID:

SB-2-2.5-3.5

Lab Sample ID:

480-7605-13

Client Matrix:

07/26/2011 1127

Analyte

Unknown

Solid

% Moisture:

4.4

Date Sampled: 07/19/2011 1220

Date Received: 07/22/2011 0940

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method: Prep Method:

Analysis Date:

Prep Date:

8270C 3550B Analysis Batch:

480-25140

Instrument ID:

HP5973V

Dilution: 1.0

07/27/2011 1810

Prep Batch:

480-24999

2

Lab File ID:

V3261.D

Initial Weight/Volume: Final Weight/Volume:

+30.05 g

1 mL

Injection Volume:

1 uL

Tentatively Identified Compounds

Number TIC's Found:

Est. Result (ug/Kg)

Qualifier

79-34-5

Cas Number

Ethane, 1,1,2,2-tetrachloro-

2.22 4.37

RT

200 430 ΤJ

TJN

Job Number: 480-7605-1 Client: Brown and Caldwell

Client Sample ID:

SB-3-3-4

Lab Sample ID:

480-7605-14

Client Matrix:

Solid

% Moisture:

Date Sampled: 07/19/2011 1320

Date Received: 07/22/2011 0940

8270C Semivolatile	Organic Compo	unds (GC/MS)
--------------------	---------------	--------------

Analysis Method: Prep Method:

8270C 3550B

Analysis Batch:

480-25325

5.2

Instrument ID:

HP5973V

Dilution:

Prep Batch:

Lab File ID:

V3292.D

1.0

480-24999

Initial Weight/Volume:

+30.26 g

Analysis Date: Prep Date:

07/28/2011 1205 07/26/2011 1127

Final Weight/Volume: Injection Volume:

1 mL

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 ethe	r	ND		180
4-Chloro-3-methylphenol		ND		180
4-Chloroaniline		ND		180
4-Chlorophenyl phenyl ethe	r	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
		ND		180

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

Analysis Method: Prep Method:

8270C 3550B Analysis Batch:

480-25325

25325 Instrument ID:

Lab File ID:

HP5973V V3292.D

Dilution:

1.0

Prep Batch:

480-24999

Initial Weight/Volume:

11 - 120

58 - 147

V3292.D +30.26 g

Analysis Date: Prep Date:

Phenol-d5

p-Terphenyl-d14

07/28/2011 1205

Final Weight/Volume:

1 mL 1 ul

Prep Date: 0//26/2	011 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

86

112

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

Analysis Method: Prep Method:

8270C 3550B

Dilution:

Tentatively Identified Compounds

Analysis Date: Prep Date:

1.0

07/28/2011 1205 07/26/2011 1127

Unknown

Analysis Batch: Prep Batch:

480-25325

480-24999

15.87

230

Instrument ID: Lab File ID:

HP5973V V3292.D

Initial Weight/Volume:

+30.26 g

ΤJ

Final Weight/Volume: Injection Volume:

1 mL 1 uL

20 **Number TiC's Found:**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	4.32	440	TJ
	Unknown	10.22	370	ТJ
	Unknown	10.48	420	ΤJ
	Unknown	10.77	560	ΤJ
	Unknown	10.79	550	ΤJ
	Unknown	10.98	230	ΤJ
	Unknown	11.26	590	ΤJ
	Unknown	11.29	580	ΤJ
	Unknown	11.65	200	ΤJ
	Unknown	11.69	570	ΤJ
	Unknown	12.08	600	ΤJ
	Unknown	12.45	520	TJ
	Unknown	12.78	380	TJ
	Unknown	13.10	370	TJ
	Unknown	13.28	210	TJ
	Unknown	13.40	300	TJ
	Unknown	13,68	270	TJ
	Unknown	13.95	190	TJ
	Unknown	15.56	280	ΤJ

Page 90 of 2377

Job Number: 480-7605-1 Client: Brown and Caldwell

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 Co	mpounds	(GC/MS)
--------------------	------------	---------	---------

Analysis Method:

8270C

Analysis Batch:

480-25140

Instrument ID:

HP5973V

Prep Method: Dilution:

3550B

Prep Batch:

480-24999

Lab File ID:

V3263.D

1.0

Initial Weight/Volume: Final Weight/Volume:

+30.21 g

Analysis Date: Prep Date:

07/27/2011 1857 07/26/2011 1127

Injection Volume:

1 mL 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

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	8270C Semivolatile	Organic	Compounds	(GC/MS
---	--------------------	---------	-----------	--------

Analysis Method: Prep Method:

8270C

Analysis Batch:

480-25140

Instrument ID:

HP5973V

Dilution:

3550B 1.0 Prep Batch:

480-24999

Lab File ID: Initial Weight/Volume: V3263.D +30.21 g

Analysis Date: 07/27/20
Prep Date: 07/26/20

07/27/2011 1857 07/26/2011 1127 Final Weight/Volume:
Injection Volume:

1 mL 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

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID:

SB-4-2-3

Lab Sample ID:

480-7605-15

Client Matrix:

07/26/2011 1127

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 3550B Analysis Batch:

480-25140

Instrument ID:

HP5973V

Prep Method: Dilution:

Prep Batch:

Lab File ID:

V3263.D

Analysis Date:

Prep Date:

1.0

480-24999

07/27/2011 1857

Initial Weight/Volume:

+30.21 g

Final Weight/Volume:

1 mL

Injection Volume:

1 uL

Tentatively Identified Compounds

Number TIC's Found:

2

Est. Result (ug/Kg)

Qualifier

TJN

TJN

Cas Number Analyte RT Ethane, 1,1,2-trichloro-2.23 270 79-0-5 79-34-5 Ethane, 1,1,2,2-tetrachloro-4.37 650

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

Analysis Method:

8270C

Analysis Batch:

480-25148

Instrument ID:

HP5973W W3011.D

Prep Method: Dilution:

3510C 1.0

Prep Batch:

480-25094

Lab File ID: Initial Weight/Volume:

1020 mL

Analysis Date:

07/27/2011 1730

Final Weight/Volume: Injection Volume:

1 mL 1 uL

Prep Date:

07/26/2011 1658

Result (un/l) Qualifier

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 4.9
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 9.8
4-Methylphenol	ND		9.8 9.8
4-Nitroaniline	ND		9.8 9.8
4-Nitrophenol	ND		9.8 4.9
Acenaphthene	ND		4.9
Acenaphthylene	ND		4.9
Acetophenone	ND		4.9
Anthracene	ND		4.9
Atrazine	ND ND		4.9
Benzaldehyde	ND ND		4.9
Benzo(a)anthracene	ND ND		4.9
Benzo(a)pyrene	ND ND		4.9
Benzo(b)fluoranthene	ND 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 benzył phthalate Caprolactam	ND		4.9
•	ND		4.9
Carbazole	ND		4.9
Chrysene Dibenz(a,h)anthracene	ND		4.9
Dibenzofuran	ND		9.8
— ···	ND		4.9
Diethyl phthalate	110		

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 Or	ganic Compou	nds (GC/MS)		
Analysis Method: Prep Method: Dilution: Analysis Date:	8270C 3510C 1.0 07/27/2011 1730	Analysis Batch: Prep Batch:	480-25148 480-25094	Lab Fi Initial	ment ID: ile ID: Weight/Volume: Veight/Volume:	HP5973W W3011.D 1020 mL 1 mL
Prep Date:	07/26/2011 1658				on Volume:	1 uL
Analyte		Result (u	g/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
Hexachlorobutadier	ne	ND				4.9
łexachlorocycloper	ntadiene	ND				4.9
lexachloroethane		ND				4.9
ndeno(1,2,3-cd)pyr	ene	ND				4.9
sophorone		ND				4.9
łaphthalene		22				4.9
litrobenzene		ND				4.9
I-Nitrosodi-n-propy	lamine	ND				4.9
I-Nitrosodiphenylar	mine	ND				4.9
Pentachlorophenol		ND				9.8
Phenanthrene		ND				4.9
Phenol		ND				4.9
Pyrene		ND				4.9
Surrogate		%Rec		Qualifier	Acceptan	ce Limits
,4,6-Tribromophen	ol	115			52 - 132	
-Fluorobiphenyl		95			48 - 120	
-Fluorophenol		50			20 - 120	
litrobenzene-d5		92			46 - 120	
Phenol-d5		35			16 - 120	
-Terphenyl-d14		104			24 - 136	

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: Prep Method: 8270C 3510C Analysis Batch: Prep Batch:

480-25148 480-25094 Instrument ID: Lab File ID: HP5973W

1.0

•

Analysis Date: Prep Date:

Dilution:

07/27/2011 1730 07/26/2011 1658 Initial Weight/Volume:

W3011.D

Final Weight/Volume:

1020 mL 1 mL

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	ΤJ
	Unknown	5.08	19	ΤJ
	Unknown	5.17	30	ΤJ
	Unknown	5.22	24	ΤJ
	Unknown	5.30	20	ΤJ
	Unknown	5.50	21	ΤJ
	Unknown Benzene Derivative	5.60	20	ΤJ
24-18-5	Decane	5.65	110	TJN
3466-78-9	3-Carene	5.79	32	TJN
	Unknown	5.91	49	ΤJ
	Unknown	5.96	22	ΤJ
989-27-5	D-Limonene	6.02	66	TJN
	Unknown	6.06	29	ΤJ
	Unknown	6.09	19	ΤJ
	Unknown	6.22	23	ΤJ
	Unknown	6.28	25	ΤJ
847-72-5	Decane, 4-methyl-	6.32	21	TJN
975-98-0	Decane, 2-methyl-	6.36	36	TJN
120-21-4	Undecane	6.72	75	TJN
12-40-3	Dodecane	7.63	16	TJN

Job Number: 480-7605-1

Client Sample ID:

DUP-071911

Lab Sample ID:

480-7605-17FD

Client Matrix:

Solid

% Moisture:

Date Sampled: 07/19/2011 0000

Date Received: 07/22/2011 0940

Analysis Method: Prep Method:

8270C 3550B Analysis Batch:

480-25325

4.9

Instrument ID:

HP5973V

Dilution:

Prep Batch:

Lab File ID:

1.0

480-24999

Initial Weight/Volume:

V3293.D +30.75 g

Analysis Date: Prep Date:

07/28/2011 1229

Final Weight/Volume:

1 mL

07/26/2011 1127

Injection Volume: 1 uL

2,4,5-Trichlorophenol 2,4,6-Trichlorophenol 2,4-Dichlorophenol	ND ND ND	 170
•		
2 4-Dichlorophenol	ND	170
2,4-Diomorophicnor		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-Nitroanifine	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

Job Number: 480-7605-1

Client Sample ID:

DUP-071911

Lab Sample ID:

480-7605-17FD

Client Matrix:

Solid

% Moisture:

4.9

Date Sampled: 07/19/2011 0000

Date Received: 07/22/2011 0940

8270C Semivolatile Organic Comp	pounas	(GC/MS)
---------------------------------	--------	---------

Analysis Method: Prep Method:

8270C 3550B

1.0

Analysis Date: Prep Date:

Dilution:

07/28/2011 1229

07/26/2011 1127

Analysis Batch: Prep Batch:

480-25325

480-24999

Instrument ID:

Lab File ID:

HP5973V V3293.D

Initial Weight/Volume: Final Weight/Volume:

58 - 147

+30.75 g

Injection Volume:

1 mL 1 uL

DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
	ND		170
L.	ND		170
	ND		340
	ND		170
	ND		170
	ND		170
	%Rec	Qualifier	Acceptance Limits
	3	X	39 - 146
8	99		37 - 120
	46		18 - 120
	90		34 - 132
	78		11 - 120
	DryWt Corrected: Y	ND N	ND N

105

Phenol-d5 p-Terphenyl-d14

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID:

DUP-071911

Lab Sample ID:

480-7605-17FD

Client Matrix:

Solid

% Moisture:

4.9

Date Sampled: 07/19/2011 0000

Date Received: 07/22/2011 0940

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method: Prep Method:

8270C 3550B Analysis Batch: Prep Batch:

480-25325

Instrument ID:

11.29

HP5973V

Dilution:

1.0

07/28/2011 1229

Analyte

Unknown

Unknown

Analysis Date: Prep Date:

Cas Number

79-0-5

79-34-5

07/26/2011 1127

Ethane, 1,1,2-trichloro-

Ethane, 1,1,2,2-tetrachloro-

480-24999

Lab File ID:

V3293.D

Initial Weight/Volume:

+30.75 g

Final Weight/Volume:

200

1 mL

ΤJ

Injection Volume:

1 uL

Tentatively Identified Compounds

4 Number TIC's Found:

RT Est. Result (ug/Kg) Qualifier 2.16 300 TJN 4.32 690 TJN 10.79 200 ΤJ

Job Number: 480-7605-1

Client Sample ID:

DUP-071911

Lab Sample ID:

480-7605-17FD

Client Matrix:

Solid

% Moisture: 4.9 Date Sampled: 07/19/2011 0000

Date Received: 07/22/2011 0940

	8270C Semivoiatil	e Organic Co	mpounds	(GC/MS)
--	-------------------	--------------	---------	---------

Analysis Method: Prep Method:

8270C 3550B

Analysis Batch:

480-25869

instrument ID:

HP5973V V3450.D

Dilution:

1.0

Prep Batch:

480-25782

Lab File ID: Initial Weight/Volume:

+30.25 g

180

180

180

180

180

340

180

180

340

340

180

180

180

180

340

340

340

180

180

180

180

180

180

Analysis Date:

08/02/2011 1520

Run Type:

RE

Final Weight/Volume: Injection Volume:

1 mL 1 uL

Prep	Date:

08/01/2011 1218

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

4	-Bromophenyi phenyi ether
4	-Chloro-3-methylphenoi
4	-Chloroaniline

4-Chlorophenyl phenyl ether	Γ
4-Methylphenol	

4.6-Dinitro-2-methylphenol

4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene

Acetophenone Anthracene Atrazine Benzaldehyde Benzo(a)anthracene

Benzo(b)fluoranthene

Benzo(a)pyrene

Benzo(g,h,i)perylene Benzo(k)fluoranthene Biphenyl bis (2-chloroisopropyl) ether Bis(2-chloroethoxy)methane

Carbazole Chrysene Dibenz(a,h)anthracene Dibenzofuran

Bis(2-chloroethyl)ether

Butyl benzyl phthalate

Caprolactam

Bis(2-ethylhexyl) phthalate

Diethyl phthalate

ND ND

ND

ND

ND

ND

ND

ND

ND

ND

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID:

DUP-071911

Lab Sample ID:

480-7605-17FD

Client Matrix:

400-7003-17

Solid

% Moisture:

4.9

Date Sampled: 07/19/2011 0000

Date Received: 07/22/2011 0940

		70 101010	4.0	Da	C 11CCC14CG, 0772272011 094
		8270C Semivolatile	Organic Compound	s (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	, <u>s</u>		Injection Volume:	1 uL
Analyte	DryWt Corre	cted: Y Result	(ug/Kg) Qu	ualifier	RL
Dimethyl phthalate	A	ND			180
Di-n-butyl phthalate	.500	ND			180
Di-n-octyl phthalate		ND			180
Fluoranthene		ND			180
Fluorene		ND			180
Hexachlorobenzene		ND			180
-lexachlorobutadier	e	ND			180
Hexachlorocycloper	ntadiene	ND /			180
Hexachloroethane		ND			180
ndeno(1,2,3-cd)pyr	ene	ND			180
sophorone		ND			180
Naphthalene		ND ND			180
Nitrobenzene		ND			180
N-Nitrosodi-n-propy	lamine	ND			180
N-Nitrosodiphenylar	nine	= ND			180
Pentachlorophenoi		ND			340
Phenanthrene		ND			180
Phenoi		ND			180
Pyrene		ND			180
Surrogate		%Rec	Qu	ualifier Accepta	nce Limits
2,4,6-Tribromophen	ol	6	X	39 - 146	3
2-Fluorobiphenyl		95		37 - 120)
2-Fluorophenol		43		18 - 120)
Nitrobenzene-d5		77		34 - 132	?
Phenol-d5		79		11 - 120)

114

58 - 147

p-Terphenyl-d14

Client: Brown and Caldwell

Job Number: 480-7605-1

Client Sample ID:

DUP-071911

Lab Sample ID:

480-7605-17FD

Client Matrix:

Solid

% Moisture:

4.9

Date Sampled: 07/19/2011 0000

Date Received: 07/22/2011 0940

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method: Prep Method:

8270C 3550B

Analysis Batch: Prep Batch:

480-25869 480-25782 Instrument ID: Lab File ID:

HP5973V V3450.D

Dilution:

1.0 08/02/2011 1520

RE

Initial Weight/Volume:

+30.25 g

Run Type:

Final Weight/Volume: 1 mL

Analysis Date: Prep Date:

08/01/2011 1218

Injection Volume:

1 uL

Tentatively Identified Compounds

Number TIC's Found:

7

Cas Number	Anaiyte	RT /	Est, Result (ug/Kg)	Qualifier
79-0-5	Ethane, 1,1,2-trichloro-	1,90	410	NLT
79-34-5	Ethane, 1,1,2,2-tetrachloro-	4.04	560	TJN
1120-21-4	Undecane	6.24	260	TJN
629-78-7	Heptadecane	10.57	160	TJN
	Unknown	10,59	200	TJ
593-45-3	Octadecane	11.06	170	TJN
	Unknown	17.38	300	TJ

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

6010B	Metals	(ICP)
-------	---------------	-------

Analysis Method: Prep Method:

6010B 3005A

Analysis Batch: Prep Batch:

480-25147

Instrument ID:

ICAP1

Dilution:

1.0

480-24885

Lab File ID:

11072611A-4.asc

Analysis Date:

07/26/2011 1632

Initial Weight/Volume: Final Weight/Volume:

50 mL 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: Prep Method:

7470A 7470A 1.0

Analysis Batch: Prep Batch:

480-24989 480-24841 instrument ID: Lab File ID:

LEEMAN2 H07251W1.PRN

Dilution: Analysis Date:

07/25/2011 1751

Initial Weight/Volume:

Final Weight/Volume:

30 mL 50 mL

Prep Date:

07/25/2011 1400

Result (mg/L) ND

Qualifier

RL 0.00020

Analyte Mercury

Job Number: 480-7605-1

Client: Brown and Caldwell

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

6010B Metals (ICP)

Analysis Method: Prep Method:

6010B 3005A

1.0

Dilution: Analysis Date: Prep Date:

07/26/2011 1634 07/26/2011 0930 Analysis Batch: Prep Batch:

480-25147

480-24885

Instrument ID: Lab File ID:

ICAP1

Initial Weight/Volume:

11072611A-4.asc 50 mL

Final Weight/Volume: 50 mL

Analyte	Result (mg/L) Qualifier	RL
Aluminum	28.8	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	0.0040
Cobalt	0.015	0.0040
Copper	0.070	0.010
Iron	35.8	0.050
Lead	0.022	0.0050
Magnesium	7.1 _	0.20
Manganese	0.36	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: Prep Method:

Analysis Date:

Prep Date:

7470A 7470A 1.0

07/25/2011 1754 07/25/2011 1400 Analysis Batch: Prep Batch:

480-24989 480-24841

Instrument ID: Lab File ID:

LEEMAN2 H07251W1.PRN

Initial Weight/Volume: Final Weight/Volume

30 mL 50 mL

Analyte Mercury

Dilution:

Result (mg/L) ND

Qualifier

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

~~4~~	44-4-1-	//OD
60'I UB	Metals	(ICF)

Analysis Method:

6010B

Analysis Batch:

480-25147

Instrument ID:

ICAP1

Prep Method:

3005A

Prep Batch:

Lab File ID:

11072611A-4.asc

Dilution:

1.0

480-24885

Initial Weight/Volume:

50 mL

Analysis Date: Prep Date:

07/26/2011 1649 07/26/2011 0930

Final Weight/Volume: 50 mL

Analyte	Result (mg/L) Qualifi	ier 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
ron	72.3	0.050
_ead	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
Fhallium	ND	0.020
/anadium	0.076	0.0050
Zinc	0.45	0.010

7470A Mercury (CVAA)

Analysis Method: Prep Method:

7470A 7470A 1.0

Analysis Batch: Prep Batch:

480-24989 480-24841

instrument ID: Lab File ID:

LEEMAN2 H07251W1.PRN

Dilution: Analysis Date Prep Date:

07/25/2011 1805 07/25/2011 1400

Initial Weight/Volume: 30 mL Final Weight/Volume: 50 mL

Analyte Mercury Result (mg/L) ND

Qualifier

Job Number: 480-7605-1

Client: Brown and Caldwell

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

6010B Metais (iCP)

Analysis Method:

6010B 3005A Analysis Batch: Prep Batch:

480-25147

instrument ID:

ICAP1

Prep Method: Dilution:

1.0

480-24885

Lab File ID:

11072611A-4.asc

Analysis Date: Prep Date:

07/26/2011 1651

07/26/2011 0930

Initial Weight/Volume: Final Weight/Volume:

50 mL

50 mL

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
ron	66.2		0.050
_ead	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: Prep Method:

Analysis Date:

Prep Date:

7470A 7470A

1.0

07/25/2011 1806 07/25/2011 1400 Analysis Batch: Prep Batch:

480-24989 480-24841

Instrument ID: Lab File ID:

LEEMAN2 H07251W1.PRN

Initial Weight/Volume Final Weight/Volume:

30 mL 50 mL

Analyte Mercury

Dilution:

Result (mg/L) ND

Qualifier

Client: Brown and Caldwell Job Number: 480-7605-1

Client Sample ID:

GWP-10-40-42

Lab Sample ID:

480-7605-5

Client Matrix:

Water

Date Sampled: 07/20/2011 1130

Date Received: 07/22/2011 0940

6010B Metais (ICP)

Analysis Method: Prep Method: 6010B 3005A Analysis Batch:

480-25147

Instrument ID:

ICAP1

Dilution:

1.0

Prep Batch:

480-24885

Lab File ID: Initial Weight/Volume:

11072611A-4.asc

n. Data: 0°

Analysis Date: Prep Date:

07/26/2011 1653

Final Weight/Volume:

50 mL 50 mL

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: Prep Method: 7470A 7470A 1.0 Analysis Batch: Prep Batch: 480-24989 480-24841 instrument ID: Lab File ID: LEEMAN2 H07251W1.PRN

Dilution: Analysis Date: Prep Date:

07/25/2011 1808 07/25/2011 1400 Initial Weight/Volume: Final Weight/Volume:

30 mL 50 mL

Analyte

Result (mg/L)

Qualifier

RL

Mercury

ND

0.00020

Job Number: 480-7605-1

Client: Brown and Caldwell

Client Sample ID:

GWP-10-50-52

Lab Sample ID:

480-7605-6

Client Matrix:

Water

Date Sampled: 07/20/2011 1300

Date Received: 07/22/2011 0940

6010B Metals	(ICP)
--------------	-------

Analysis Method: Prep Method:

3005A

6010B

1.0

Analysis Date: Prep Date:

Dilution:

07/26/2011 1656 07/26/2011 0930 Analysis Batch: Prep Batch:

480-25147

480-24885

Lab File ID:

Instrument ID:

ICAP1

11072611A-4.asc

Initial Weight/Volume:

50 mL

Final Weight/Volume: 50 mL

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
Cobait	0.015		0.0040
Соррег	0.046		0.010
ron	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 UJ		0.010

7470A Mercury (CVAA)

Analysis Method: Prep Method:

7470A 7470A 1.0

07/25/2011 1810 Analysis Date:

07/25/2011 1400

Analysis Batch: Prep Batch:

480-24989 480-24841

Instrument ID: Lab File ID:

LEEMAN2 H07251W1.PRN

Initial Weight/Volume: Final Weight/Volume:

30 mL 50 mL

Analyte Mercury

Dilution:

Prep Date:

Result (mg/L)

Qualifier

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

	letais	

Analysis Method: Prep Method:

Prep Date:

Analyte

3005A

6010B

Analysis Batch: Prep Batch:

480-25147

instrument ID:

ICAP1

Dilution: Analysis Date:

1.0

07/26/2011 1658 07/26/2011 0930

480-24885 Lab File ID:

11072611A-4.asc

Initial Weight/Volume: Final Weight/Volume:

50 mL 50 mL

RL

Result (mg/L)	Qualifier	
43.7		
ND		

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: Prep Method:

Analysis Date:

Prep Date:

7470A 7470A 1.0

07/25/2011 1400

07/25/2011 1811

Analysis Batch: Prep Batch:

480-24989 480-24841

Instrument ID: Lab File ID

LEEMAN2 H07251W1.PRN

Initial Weight/Volume: Final Weight/Volume:

30 mL 50 mL

Analyte

Dilution:

Result (mg/L)

Qualifier

Client: Brown and Caldwell

Job Number: 480-7605-1

Cilent Sample iD:

DUP-072011

Lab Sample ID:

480-7605-8FD

Client Matrix:

Water

Date Sampled: 07/20/2011 0000

Date Received: 07/22/2011 0940

6010B Metals (ICP)

Analysis Method: Prep Method: 6010B 3005A

Analysis Batch: 4
Prep Batch: 4

480-25147 480-24885 Instrument ID: Lab File ID: ICAP1

Dilution:
Analysis Date:

Prep Date:

1.0

07/26/2011 1700 07/26/2011 0930 Initial Weight/Volume:

I1072611A-4.asc

Final Weight/Volume:

50 mL 50 mL

RL

0.20

0.020

 Analyte
 Result (mg/L)
 Qualifier

 Aluminum
 15.6

 Antimony
 ND

 Arsenic
 0.012

 Positive
 0.42

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 ND 0.020

 Thallium
 ND
 0.020

 Vanadium
 0.041
 0.050

 Zinc
 0.25
 0.010

7470A Mercury (CVAA)

Analysis Method: Prep Method:

TestAmerica Buffalo

7470A 7470A 1.0

OA Analysis Batch:
OA Prep Batch:

480-24989 480-24841 Instrument ID: Lab File ID: LEEMAN2 H07251W1.PRN

Analysis Date: 07/25/2011 1813 Prep Date: 07/25/2011 1400 Initial Weight/Volume: Final Weight/Volume:

30 mL 50 mL

Analyte Mercury

Dilution:

Result (mg/L)

Qualifier

RL

0.00020

ury

Job Number: 480-7605-1 Client: Brown and Caldwell

Cilent 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

004		80-4-1-	//AB\
601	OR	Metals	HIGH

Analysis Method: Prep Method:

Analysis Date:

Prep Date:

Dilution:

6010B 3005A

1.0

07/26/2011 1707 07/26/2011 0930 Analysis Batch: Prep Batch:

480-25147 480-24885

Instrument ID: Lab File ID:

ICAP1 11072611A-4.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	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: Prep Method:

7470A 7470A

1.0 07/25/2011 1815

Analysis Date: Prep Date: 07/25/2011 1400 Analysis Batch: Prep Batch:

480-24989 480-24841

Instrument ID: Lab File ID:

LEEMAN2 H07251W1:PRN

Initial Weight/Volume: Final Weight/Volume

30 mL 50 mL

RL

Analyte Mercury

Dilution:

Result (mg/L) ND

Qualifier

0.00020

Job Number: 480-7605-1

Client: Brown and Caldwell

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: Prep Method:

6010B 3005A

1.0

Analysis Date: Prep Date:

Dilution:

07/26/2011 1709

07/26/2011 0930

Analysis Batch: Prep Batch:

480-25147

480-24885

Instrument ID: Lab File ID:

ICAP1 11072611A-4.asc

Initial Weight/Volume:

50 mL

Final Weight/Volume:

50 mL

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: Prep Method:

Analysis Date:

Prep Date:

7470A 7470A 1.0

07/25/2011 1820 07/25/2011 1400 Analysis Batch: Prep Batch:

480-24989 480-24841 Instrument ID: Lab File ID:

LEEMAN2 H07251W1.PRN

Initial Weight/Volume: Final Weight/Volume:

30 mL 50 mL

Analyte

Dilution:

Result (mg/L) ND

Qualifier

RL 0.00020

09/26/2011

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

6010B Metals (ICP)

Analysis Method:

6010B 3050B Analysis Batch:

480-25919

Instrument ID:

ICAP2

Prep Method:

1.0

Prep Batch:

480-25592

Lab File ID:

I2080111A-7.asc

Dilution:

Initial Weight/Volume:

+0.4900 g

Analysis Date: Prep Date:

08/01/2011 1620 07/29/2011 1400

Final Weight/Volume:

50 mL

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
ron		6380		11.0
_ead		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
Γhallium		ND		6.6
/anadium		15.7		0.55
Zinc		15.8		2.2

7471A Mercury (CVAA)

Analysis Method: Prep Method:

7471A 7471A 1.0

Analysis Batch: Prep Batch:

480-25178 480-24860 Instrument ID: Lab File ID:

Initial Weight/Volume:

Final Weight/Volume:

LEEMAN3 J07261S1.PRN +0.5836 g

Analysis Date: Prep Date:

Dilution:

07/26/2011 1659 07/26/2011 1400

50 mL

Analyte Mercury DryWt Corrected: Y

Result (mg/Kg) ND

Qualifier

Job Number: 480-7605-1

Client Sample ID:

SB-2-2.5-3.5

Lab Sample ID:

480-7605-13

Client Matrix:

Solid

% Moisture:

4.4

Date Sampled: 07/19/2011 1220

Date Received: 07/22/2011 0940

6010B Metals (ICP)

Analysis Method: Prep Method:

6010B 3050B Analysis Batch: Prep Batch:

480-25919

480-25592

Instrument ID: Lab File ID:

ICAP2

Dilution:

Analysis Date: Prep Date:

1.0

08/01/2011 1622 07/29/2011 1400 Initial Weight/Volume:

I2080111A-7.asc +0.4993 g

Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL	
Aluminum		3050		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 丁		52.3	
Chromium		4.1		0.52	
Cobalt		0.94		0.52	
Copper		2.7		1.0	
iron		3830		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		0.52	
Zinc		6.5		2.1	

7471A Mercury (CVAA)

Analysis Method: Prep Method:

7471A 7471A 1.0

Prep Batch:

Analysis Batch:

480-25178 480-24860 Instrument ID: Lab File ID:

LEEMAN3 J07261S1.PRN

Initial Weight/Volume:

+0.5963 g

Final Weight/Volume:

50 mL

Prep Date: Analyte

Analysis Date:

Dilution:

Mercury

07/26/2011 1400

07/26/2011 1700

DryWt Corrected: Y Result (mg/Kg) ND

Qualifier

RL

0.021

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

6010B Metals (ICP)

Analysis Method: Prep Method:

Analysis Batch:

480-25919

Instrument ID:

ICAP2

Dilution:

3050B 1.0

6010B

Prep Batch:

480-25592

Lab File ID:

12080111A-7.asc

08/01/2011 1637 Analysis Date:

Initial Weight/Volume: Final Weight/Volume:

+0.5162 g

Prep Date:

07/29/2011 1400

50 mL

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
ron		3900		10.2
_ead		3.8		1.0
/lagnesium		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
/anadium		6.8		0.51
Zinc		8.3		2.0

7471A Mercury (CVAA)

Analysis Method: Prep Method:

7471A 7471A Analysis Batch: Prep Batch:

480-25178 480-24860 Instrument ID: Lab File ID:

Initial Weight/Volume:

LEEMAN3 J07261S1.PRN

Dilution: 1.0 Analysis Date: 07/26/2011 1711

Prep Date:

07/26/2011 1400

Final Weight/Volume:

+0.6356 g 50 mL

Analyte Mercury DryWt Corrected: Y

Result (mg/Kg) ND

Page 115 of 2377

Qualifier

RL 0.020

Job Number: 480-7605-1

Client: Brown and Caldwell

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

6010B Metals (ICP)

Analysis Method:

6010B 3050B Analysis Batch:

480-25919

Instrument ID:

ICAP2

Prep Method: Dilution:

1.0

Prep Batch:

480-25592

Lab File ID:

12080111A-7.asc

Analysis Date:

08/01/2011 1639

Initial Weight/Volume: Final Weight/Volume:

+0.4490 g

Prep Date:

07/29/2011 1400

50 mL

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

7471A Mercury (CVAA)

Analysis Method: Prep Method:

7471A 7471A 1.0

Analysis Batch: Prep Batch:

ND

3.6

4.6

480-25178 480-24860 Instrument ID: Lab File ID:

Initial Weight/Volume:

Final Weight/Volume:

LEEMAN3 J07261S1.PRN +0.6457 g

0.58

2.3

Dilution: Analysis Date: Prep Date:

Thallium

Zinc

Vanadium

07/26/2011 1713 07/26/2011 1400

50 mL

Analyte Mercury DryWt Corrected: Y

Result (mg/Kg) ND

Qualifier

RL 0.019

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

6010B Metals (ICP)

Result (mg/L)

0.32

ND

ND

ND

ND

1.8

ND

ND

ND

0.49

ND

ND

ND

ND

ND

ND

ND

ND

ND

0.013

0.0078

0.0034

Analysis Method: Prep Method:

6010B 3005A Analysis Batch:

480-25147

Instrument ID:

ICAP1

Dilution: Analysis Date: 1.0

Prep Batch:

480-24885

Lab File ID:

I1072611A-4.asc

RL

0.20

0.020

0.010

0.0020

0.0020

0.0010

0.0040

0.0040

0.010

0.050

0.0050

0.0030

0.010

0.50

0.015

0.0030

1.0

0.020

0.010

0.0050

0.20

0.50

Initial Weight/Volume: Final Weight/Volume:

50 mL

Prep Date:

07/26/2011 1711 07/26/2011 0930

Qualifier

50 mL

Analyte	
Aluminum	
Antimony	
Arsenic	
Barium	
Beryllium	
Cadmium	
Calcium	
Chromium	
Cobalt	
Copper	
Iron	
Lead	
Magnesium	

Manganese

Nickel Potassium Selenium Silver Sodium Thallium Vanadium Zinc

Analysis Method: Prep Method:

Analyte

Mercury

Dilution:

Analysis Date: Prep Date:

7470A 1.0

7470A

07/25/2011 1822 07/25/2011 1400 Analysis Batch: Prep Batch:

480-24989

7470A Mercury (CVAA)

480-24841

Instrument ID: Lab File ID:

LEEMAN2 H07251W1.PRN 30 mL

Initial Weight/Volume: Final Weight/Volume:

50 mL

Result (mg/L)

Qualifier

RL 0.00020

Job Number: 480-7605-1

Client: Brown and Caldwell

Client Sample ID:

DUP-071911

Lab Sample ID:

480-7605-17FD

Client Matrix:

Solid

% Moisture:

4.9

Date Sampled: 07/19/2011 0000

Date Received: 07/22/2011 0940

6010B Metals (ICP)

Analysis Method:

6010B 3050B Analysis Batch:

480-25919

Instrument ID:

ICAP2

Prep Method: Dilution:

480-25592

Lab File ID:

I2080111A-7.asc

1.0

Prep Batch:

Initial Weight/Volume:

+0.4913 g

Analysis Date:

08/01/2011 1641

Prep Date:

07/29/2011 1400

Final Weight/Volume:

50 mL

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: Prep Method:

7471A 7471A

1.0

Analysis Batch: Prep Batch:

480-25178 480-24860 Instrument ID: Lab File ID:

LEEMAN3 J07261S1.PRN +0.6100 g

Initial Weight/Volume: Final Weight/Volume:

50 mL

Analysis Date: Prep Date:

Dilution:

07/26/2011 1714 07/26/2011 1400

Result (mg/Kg)

Qualifier

RL 0.021

Analyte Mercury DryWt Corrected: Y

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

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

Job Number: 480-7605-1

General Chemistry

Client Sample ID:

SB-2-2.5-3.5

Lab Sample ID:

Client Matrix:

480-7605-13

Solid

Date Sampled: 07/19/2011 1220

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

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

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

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

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

Job Number: 480-7605-1

General Chemistry

Client Sample ID:

DUP-071911

Lab Sample ID:

480-7605-17FD

Client Matrix:

Solid

Date Sampled: 07/19/2011 0000

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

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 O	rganic Com	pounds ((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: Prep Date:

07/27/2011 0603

Final Weight/Volume:

5 mL

Lieh	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

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: Prep Method:

8260B 5030B Analysis Batch:

480-25103

Instrument ID:

HP5975T

Dilution:

1.0 07/27/2011 0603 Prep Batch:

N/A

Lab File ID:

T9879.D

Initial Weight/Volume: Final Weight/Volume:

5 mL 5 mL

Analysis Date: Prep Date:

07/27/2011 0603

Qualifier

RL

Analyte Vinyl chloride Xylenes, Total

ND ND

Result (ug/L) Qualifier

1.0 2.0

Acceptance Limits

Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr)

66 - 137 73 - 120 71 - 126

Job Number: 480-7633-1

Client Sample ID:

Client: Brown and Caldwell

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 5030B Analysis Batch.

480-25103

0

Instrument ID:

HP5975T

Prep Method: Dilution:

1.0

Prep Batch:

N/A

Lab File ID:

T9879.D

ilution: 1.0

Analysis Date:

07/27/2011 0603

Prep Date:

Cas Number

07/27/2011 0603

Analyte

Initial Weight/Volume:

5 mL

Final Weight/Volume:

5 mL

Tentatively Identified Compounds

Number TIC's Found:

RT

Est. Result (ug/L)

Qualifier

Tentatively Identified Compound

None

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)	8260B	Volatile	Organic	Compounds	(GC/MS)
--	-------	----------	---------	-----------	---------

Analysis Method: Prep Method:

8260B 5030B Analysis Batch: Prep Batch:

480-25103

Instrument ID:

HP5975T

Dilution:

N/A

Lab File ID:

T9880.D

1.0

Initial Weight/Volume:

5 mL

Analysis Date: Prep Date:

07/27/2011 0627

Final We

Analyte
1,1,1-Trichle
1,1,2,2-Tetr
1,1,2-Trichle
4 4 0 THEFT

07/27/2011 0627

/eight/Volume:	5	mL
olgila volullic.	U	****

1,1,1-Trichloroethane ND 1.0 1,1,2-Trichloroethane ND 1.0 1,1,2-Trichloroethane ND 1.0 1,1,2-Trichloroethane ND 1.0 1,1-Dichloroethane ND 1.0 1,1-Dichloroethane ND 1.0 1,1-Dichloroethane ND 1.0 1,2-Dibromo-3-Chloropropane ND 1.0 1,2-Dibromo-3-Chloropropane ND 1.0 1,2-Dichloroethane ND 1.0 1,3-Dichloroethane ND 1.0 1,4-Dichloroethane ND 1.0 1,4-Dichloroethane ND 1.0 1,4-Dichloroethane ND 1.0 1,4-Dichloroethane ND 1.0 2-Butanone (MEK) ND 1.0	Analyte	Result (ug/L) Qualifier	RL
1.1.2-Trichloro-1,2,2-Irifluoroethane ND 1.0 1.1,2-Trichloroethane ND 1.0 1.1-Dichloroethane ND 1.0 1,1-Dichloroethane ND 1.0 1,2-Dichloroethane ND 1.0 1,4-Dichloroethane ND 1.0 4-Hexanone ND 1.0 4-Methyl-2-pentanone (MEK) ND 5.0 Acetone ND 1.0 Benzene ND 1.0 Bromodi	1,1,1-Trichloroethane	ND	1.0
1,1,2-Trichloroethane ND 1.0 1,1-Dichloroethane ND 1.0 1,1-Dichloroethene ND 1.0 1,2-A-Trichloroethene ND 1.0 1,2-Dibromoethane ND 1.0 1,2-Dibromoethane ND 1.0 1,2-Dichloroethane ND 1.0 1,3-Dichloroethane ND 1.0 2-Hexanone ND 1.0 2-Hexanone ND 1.0 4-Methyl-2-pentanone (MIBK) ND 5.0 4-Methyl-2-pentanone (MIBK) ND 1.0 Benzane ND 1.0 Benzane ND 1.0 Benzane <t< td=""><td>1,1,2,2-Tetrachloroethane</td><td>ND</td><td>1.0</td></t<>	1,1,2,2-Tetrachloroethane	ND	1.0
1,1-Dichloroethane ND 1.0 1,1-Dichloroethene ND 1.0 1,2-Dibromo-3-Chloropropane ND 1.0 1,2-Dibromo-3-Chloropropane ND 1.0 1,2-Dibromo-S-Chloropropane ND 1.0 1,2-Dichloropropane ND 1.0 1,2-Dichloropropane ND 1.0 1,3-Dichlorobenzene ND 1.0 1,4-Dichlorobenzene ND 1.0 1,4-Dichlorobenzene ND 1.0 1,4-Dichlorobenzene ND 1.0 2-Butanone (MEK) ND 1.0 2-Haxanone ND 1.0 4-Methyl-2-pentlanone (MIBK) ND 5.0 Acetone ND 5.0 Benzene ND 1.0 Bromodichloromethane ND 1.0 Bromodichloromethane ND 1.0 Bromomethane ND 1.0 Carbon tetrachloride ND 1.0 Carbon tetrachloride ND 1.0	1,1,2-Trichloro-1,2,2-trifluoroethane	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-Dichlorobenzene ND 1.0 1.2-Dichlorobenzene ND 1.0 1.2-Dichloropropane ND 1.0 1.2-Dichloropropane ND 1.0 1.3-Dichlorobenzene ND 1.0 1.4-Dichlorobenzene ND 1.0 1.4-Dichlorobenzene ND 1.0 2-Butanone (MEK) ND 1.0 2-Hexanone ND 5.0 4-Methyl-2-pentanone (MIBK) ND 5.0 4-Methyl-2-pentanone (MIBK) ND 5.0 4-Methyl-2-pentanone (MIBK) ND 5.0 4-Methyl-2-pentanone (MIBK) ND 1.0 Benzene ND 1.0 Bromoform ND 1.0 Bromoform ND 1.0 Bromoform ND 1.0 Carbon disulfide ND 1.0 C	1,1,2-Trichloroethane	ND	1.0
1.2.4-Trichlorobenzene ND 1.0 1.2-Dibromo-3-Chloropropane ND 1.0 1.2-Dichlorobenzene ND 1.0 1.2-Dichlorobenzene ND 1.0 1.2-Dichlorobenzene ND 1.0 1.2-Dichlorobenzene ND 1.0 1.3-Dichlorobenzene ND 1.0 1.4-Dichlorobenzene ND 1.0 1.4-Dichlorobenzene ND 1.0 2-Butanone (MEK) ND 1.0 2-Hexanone ND 1.0 4-Methyl-2-pentanone (MIBK) ND 5.0 4-Methyl-2-pentanone (MIBK) ND 5.0 4-Methyl-2-pentanone (MIBK) ND 1.0 Benzene ND 1.0 Benzene ND 1.0 Benzene ND 1.0 Bromoform ND 1.0 Bromoform ND 1.0 Bromoform ND 1.0 Carbon tetrachlorde ND 1.0 Chlorobenzene <t< td=""><td>1,1-Dichloroethane</td><td>ND</td><td>1.0</td></t<>	1,1-Dichloroethane	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-Dichloropethane ND 1,0 1,2-Dichloropenzene ND 1,0 1,3-Dichlorobenzene ND 1,0 1,4-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 4-Methyl-2-pentanone (MIBK) ND 5,0 4-Methyl-2-pentanone (MIBK) ND 1,0 Bernzene ND 1,0 Bromodichloromethane ND 1,0 Bromodichloromethane ND 1,0 Bromodichloromethane ND 1,0 Carbon disulfide ND 1,0 Carbon disulfide ND 1,0 Chlorobenzene ND 1,0 Chlorobenzene ND 1,0 Chlorobenzene ND 1,0 Chlorobenzene <td< td=""><td>1,1-Dichloroethene</td><td>ND</td><td>1.0</td></td<>	1,1-Dichloroethene	ND	1.0
1,2-Dibromoethane ND 1.0 1,2-Dichlorobenzene ND 1.0 1,2-Dichloroptopane ND 1.0 1,2-Dichlorobenzene ND 1.0 1,3-Dichlorobenzene ND 1.0 1,4-Dichlorobenzene ND 1.0 1,4-Dichlorobenzene ND 1.0 2-Butanone (MEK) ND 10 2-Hexanone ND 10 4-Methyl-2-pentanone (MIBK) ND 5.0 4-Methyl-2-pentanone (MIBK) ND 10 Acetone ND 10 Benzene ND 1.0 Bromodichloromethane ND 1.0 Bromodichloromethane ND 1.0 Bromomethane ND 1.0 Carbon disulfide ND 1.0 Carbon disulfide ND 1.0 Chloroethane ND 1.0	1,2,4-Trichlorobenzene	ND	1.0
1,2-Dichlorobenzene ND 1.0 1,2-Dichloroproprane ND 1.0 1,2-Dichloroproprane ND 1.0 1,3-Dichlorobenzene ND 1.0 1,4-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 4-Methyl-2-pentanone (MIBK) ND 1.0 Benzene ND 1.0 Bromodichloromethane ND 1.0 Bromodichloromethane ND 1.0 Bromodichloromethane ND 1.0 Carbon disulfide ND 1.0 Carbon tetrachloride ND 1.0 Chloroethane <	1,2-Dibromo-3-Chloropropane	ND	1.0
1,2-Dichloroethane ND 1,0 1,2-Dichloropopane ND 1.0 1,3-Dichlorobenzene ND 1.0 1,4-Dichlorobenzene ND 1.0 2-Butanone (MEK) ND 1.0 2-Hexanone ND 5.0 4-Methyl-2-pentanone (MIBK) ND 5.0 4-Methyl-2-pentanone (MIBK) ND 1.0 Acetone ND 1.0 Benzene ND 1.0 Bromodichloromethane ND 1.0 Bromoform ND 1.0 Bromoform ND 1.0 Carbon tetrachloride ND 1.0 Carbon tetrachloride ND 1.0 Chlorobenzene ND 1.0 Chlorotethane ND 1.0 Chlorotethane ND 1.0 Chlorotethane ND 1.0 cis-1,3-Dichloropropene ND 1.0 Cyclohexane ND 1.0 Dibromochloromethane ND	1,2-Dibromoethane	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 Bromoform ND 1.0 Bromofidhoromethane ND 1.0 Carbon disulfide ND 1.0 Carbon disulfide ND 1.0 Carbon disulfide ND 1.0 Chloroethane ND 1.0	1,2-Dichlorobenzene	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 4-Methyl-2-pentanone (MIBK) ND 10 Benzene ND 1.0 Bromodichloromethane ND 1.0 Bromodichloromethane ND 1.0 Bromoform ND 1.0 Bromoform ND 1.0 Bromoform ND 1.0 Carbon disulfide ND 1.0 Carbon tetrachloride ND 1.0 Chlorobenzene ND 1.0 Chloroptane ND 1.0 Chloroptane ND 1.0 Chloroptorm ND 1.0 Chloroptane ND 1.0 Chloroptorpene ND 1.0 Cis-1,2-Dichloroptopene ND 1.0 Cis-1,3-Dichloroptopene ND 1.0<	1,2-Dichloroethane	ND	1.0
1,4-Dichlorobenzene ND 1,0 2-Butanone (MEK) ND 5,0 2-Hexanone ND 5,0 4-Methyl-2-pentanone (MIBK) ND 5,0 4-Methyl-2-pentanone (MIBK) ND 1,0 Benzene ND 1,0 Bromodichloromethane ND 1,0 Bromoform ND 1,0 Bromomethane ND 1,0 Carbon disulfide ND 1,0 Carbon disulfide ND 1,0 Carbon disulfide ND 1,0 Chlorobenzene ND 1,0 Cis-1,2-Dichlorobethene ND 1,0 cis-1,3-Dichloropethane ND 1,	1,2-Dichloropropane	ND	1.0
2-Butanone (MEK) ND 5.0 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 disuffide ND 1.0 Chlorode insurance ND 1.0 Chlorodethane ND 1.0 Chlorodethane ND 1.0 Chlorodethane ND 1.0 Cis-1,3-Dichlorodethane ND 1.0 Cyclohexane ND 1.0 Dichlorodifluoromethane ND 1.0 Ethylbanzene ND 1.0	1,3-Dichlorobenzene	ND	1.0
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 Bromomethane ND 1.0 Carbon disulfide ND 1.0 Carbon disulfide ND 1.0 Chlorothere ND 1.0 Chlorothere ND 1.0 Chlorothane ND 1.0 Chloroform ND 1.0 Chlorothane ND 1.0 Cyclohexane ND 1.0 Dichlorodiflouromethane	1,4-Dichlorobenzene	ND ·	1.0
4-Methyl-2-pentanone (MIBK) ND Acetone ND Benzene ND Bromodichloromethane ND Bromoform ND Bromoform ND Bromomethane ND Carbon disulfide ND Carbon idsulfide ND Carbon tetrachloride ND Chlorobenzene ND Chlorobenzene ND Chloroform ND Chloroform ND Chloroform ND Chloroform ND Chloroform ND Chloroformethane ND Chloropropene ND ND 10 Cyclohexane ND Dibromochloromethane ND Dichlorodifluoromethane ND Dichlorodifluoromethane ND Italy 10 Isopropylbenzene ND Methylerace ND Methyl acetate ND Methyl acetate ND	2-Butanone (MEK)	ND	10
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 Chiorobarcene ND 1.0 Chloroethane ND 1.0 Chloroform ND 1.0 Chloroethane ND 1.0 Chloromethane ND 1.0 Chloromethane ND 1.0 cis-1,2-Dichloropropene ND 1.0 Cyclohexane ND 1.0 Dibromochloromethane ND 1.0 Dichlorodifluoromethane ND 1.0 Ethylbenzene ND 1.0 Ethylbenzene ND 1.0 Methyl cetate ND 1.0 Methyl cetate ND 1.0 Methylene Choride ND 1.0	2-Hexanone	ND	5.0
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 Chlorobethane ND 1.0 Chloroform ND 1.0 Chloromethane ND 1.0 Cis-1,2-Dichloropthene 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 Ethylbenzene ND 1.0 Methyl acetate ND 1.0 Methyl acetate ND 1.0 Methyl etr-butyl ether ND 1.0 Methylene Chloride ND 1.0 Styrene ND 1.0 <td>4-Methyl-2-pentanone (MIBK)</td> <td>ND</td> <td>5.0</td>	4-Methyl-2-pentanone (MIBK)	ND	5.0
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 Chlorobethane ND 1.0 Chloroform ND 1.0 Chloromethane ND 1.0 Chloromethane ND 1.0 Cis-1,2-Dichloroptopene ND 1.0 Cyclohexane ND 1.0 Dibromochloromethane ND 1.0 Dichlorodifluoromethane 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 Methyler Chloride ND 1.0 Methyler Chloride ND 1.0 Methyler Chloride ND	Acetone	ND	10
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 Eithylbenzene ND 1.0 Isopropylbenzene ND 1.0 Isopropylbenzene ND 1.0 Methyl acetate ND 1.0 Methyl tert-butyl ether ND 1.0 Methylene Chloride ND 1.0 Styrene ND	Benzene	ND	1.0
Bromomethane ND 1.0 Carbon disulfide ND 1.0 Carbon tetrachloride ND 1.0 Chlorobenzene ND 1.0 Chlorobenzene ND 1.0 Chloroform 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 Cyclohexane ND 1.0 Dibromochloromethane ND 1.0 Ethylbenzene ND 1.0 Isopropylbenzene ND 1.0 Isopropylbenzene ND 1.0 Methyl acetate ND 1.0 Methyl tert-butyl ether ND 1.0 Methylcyclohexane ND 1.0 Methylcyclohexane ND 1.0 Methylcyclohexane ND 1.0 Methylcyclohexane ND 1.0<	Bromodichloromethane	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 Dichlorodiffuoromethane ND 1.0 Dichlorodiffuoromethane ND 1.0 Ethylbenzene ND 1.0 Isopropylbenzene ND 1.0 Methyl acetate ND 1.0 Methyl tert-butyl ether ND 1.0 Methylene Chloride ND 1.0 Methylene Chloride ND 1.0 Styrene ND 1.0 Tetrachloroethene ND 1.0 trans-1,2-Dichloropropene ND 1.0 trans-1,2-Dichloropropene <td>Bromoform</td> <td>ND</td> <td>1.0</td>	Bromoform	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 Ethylbenzene ND 1.0 Methyl acetate ND 1.0 Methyl tert-butyl ether ND 1.0 Methylcyclohexane ND 1.0 Methylcyclohexane ND 1.0 Methylene Chloride ND 1.0 Styrene ND 1.0 Tetrachloroethene ND 1.0 trans-1,2-Dichloropropene ND 1.0 trans-1,3-Dichloropropene ND 1.0 Trichloroethene <t< td=""><td>Bromomethane</td><td>ND</td><td>1.0</td></t<>	Bromomethane	ND	1.0
Chlorobenzene ND 1.0 Chloroethane ND 1.0 Chloroform ND 1.0 Chloroform ND 1.0 Cis-1,2-Dichloroethene ND 1.0 cis-1,3-Dichloropropene ND 1.0 Cyclohexane ND 1.0 Cyclohexane ND 1.0 Dibromochloromethane ND 1.0 Dichlorodifluoromethane ND 1.0 Ethylbenzene ND 1.0 Ethylbenzene ND 1.0 Methyl acetate ND 1.0 Methyl acetate ND 1.0 Methyl eth-butyl ether ND 1.0 Methylcyclohexane ND 1.0 Methyllene Chloride ND 1.0 Styrene ND 1.0 Tetrachloroethene ND 1.0 Trans-1,2-Dichloroethene ND 1.0 trans-1,3-Dichloropropene ND 1.0 Trichloroethene ND	Carbon disulfide	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 Methyler-butyl ether ND 1.0 Methyler-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	Carbon tetrachloride	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 Trichloroethene ND 1.0	Chlorobenzene	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 etr-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 Trichloroethene ND 1.0	Chloroethane	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	Chloroform	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	Chloromethane	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	cis-1,2-Dichloroethene	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	cis-1,3-Dichloropropene	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 Trichloroethene ND 1.0 Trichloroethene ND 1.0	Cyclohexane	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	Dibromochloromethane	ND	1.0
Sopropylbenzene	Dichlorodifluoromethane	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	Ethylbenzene	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	Isopropylbenzene	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	Methyl acetate	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	Methyl tert-butyl ether	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	Methylcyclohexane	ND	1.0
TetrachloroetheneND1.0TolueneND1.0trans-1,2-DichloroetheneND1.0trans-1,3-DichloropropeneND1.0TrichloroetheneND1.0	Methylene Chloride	ND	1.0
TolueneND1.0trans-1,2-DichloroetheneND1.0trans-1,3-DichloropropeneND1.0TrichloroetheneND1.0	Styrene	ND	1.0
trans-1,2-Dichloroethene ND 1.0 trans-1,3-Dichloropropene ND 1.0 Trichloroethene ND 1.0	Tetrachloroethene	ND	1.0
trans-1,3-Dichloropropene ND 1.0 Trichloroethene ND 1.0	Toluene	ND	1.0
Trichloroethene ND 1.0	trans-1,2-Dichloroethene	ND	1.0
	trans-1,3-Dichloropropene	ND	1.0
Trichlorofluoromethane ND 1.0	Trichloroethene	ND	1.0
	Trichlorofluoromethane	ND	1.0

Job Number: 480-7633-1

Client: Brown and Caldwell

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)
OZOUD VUIZILIE	Cidaille	Compounds	1 G G H H I G I

Analysis Method: Prep Method:

8260B 5030B Analysis Batch: Prep Batch:

480-25103 N/A

Instrument ID:

HP5975T T9880.D

Dilution: Analysis Date:

Prep Date:

1.0

07/27/2011 0627 07/27/2011 0627 Lab File ID: Initial Weight/Volume: 5 mL

Final Weight/Volume:

Qualifier

5 mL

RL 1.0 2.0

Analyte	Result (ug/L)
Vinyl chloride	ND
Xvlenes, Total	ND

Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr)

Qualifier Acceptance Limits 66 - 137

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: Prep Method:

8260B 5030B

Dilution:

1.0

Analysis Date: Prep Date:

07/27/2011 0627

07/27/2011 0627

Analysis Batch:

Prep Batch:

N/A

480-25103

Instrument ID:

HP5975T T9880.D

Lab File ID: Initial Weight/Volume:

5 mL

Final Weight/Volume:

5 mL

Tentatively Identified Compounds

Number TIC's Found:

Est. Result (ug/L)

Qualifier

Cas Number

Analyte Unknown RT 3.69

6.7

ΤJ

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 Voia	tile Organic	Compounds	(GC/MS)
------------	--------------	-----------	---------

Analysis Method:

8260B

Analysis Batch:

480-25103

Instrument ID:

HP5975T

Prep Method:

5030B

Lab File ID:

T9881.D

Dilution:

1.0

Prep Batch:

N/A

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

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

Analysis Method: Prep Method:

Analysis Date:

8260B 5030B Analysis Batch: Prep Batch:

480-25103

Instrument ID:

HP5975T

Dilution:

1.0

07/27/2011 0650

N/A

Lab File ID:

T9881.D

Initial Weight/Volume:

5 mL

Final Weight/Volume:

5 mL

Prep Date: Analyte

07/27/2011 0650

Result (ug/L)

Qualifier

Qualifier

RL

Vinyl chloride Xylenes, Total ND ND

1.0 2.0

Acceptance Limits

Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr)

66 - 137 73 - 120 71 - 126

Job Number: 480-7633-1

Client: Brown and Caldwell

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: Prep Method:

8260B 5030B Analysis Batch:

480-25103

Instrument ID:

HP5975T

Dilution:

1.0

Prep Batch:

N/A

Lab File ID:

T9881.D

Tentatively Identified Compounds

Initial Weight/Volume:

5 mL

Analysis Date: Prep Date:

07/27/2011 0650

Final Weight/Volume:

5 mL

07/27/2011 0650

Number TIC's Found:

RT

Est. Result (ug/L)

Cas Number

Analyte

0

Qualifier

Tentatively Identified Compound

None

Job Number: 480-7633-1

Client Sample ID:

GWP-9-50-52

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: Prep Method:

8260B 5030B Analysis Batch: Prep Batch:

Result (ug/L)

ND

480-25103

Instrument ID:

HP5975T

Dilution:

1.0

N/A Lab File ID: Initial Weight/Volume: T9882.D

Analysis Date:

07/27/2011 0713

Final

5 mL

RL

1.0

07/27/2011 0713

Qualifier	

Weight/Volume:	5	ml

Analysis Date:	0/12
Prep Date:	07/2
Analyte	
1,1,1-Trichloroetha	ane
1,1,2,2-Tetrachlord	ethane
1,1,2-Trichloro-1,2	,2-trifluo
1,1,2-Trichloroetha	ane
1,1-Dichloroethane	€
1,1-Dichloroethene)
1,2,4-Trichloroben	zene
1,2-Dibromo-3-Chl	oroprop
1,2-Dibromoethane	ə
1,2-Dichlorobenze	ne
1,2-Dichloroethane	÷
1,2-Dichloropropar	1e
1,3-Dichlorobenze	ne
1,4-Dichlorobenze	ne
2-Butanone (MEK)	
2-Hexanone	
4-Methyl-2-pentano	one (MIE
Acetone	
Benzene	
Bromodichlorometl	nane
Bromoform	
Bromomethane	
Carbon disulfide	

Cyclohexane

Ethylbenzene

Methyl acetate

Styrene

Toluene

Isopropylbenzene

Methyl tert-butyl ether

Methylcyclohexane

Methylene Chloride

Tetrachloroethene

Trichloroethene

trans-1,2-Dichloroethene

trans-1,3-Dichtoropropene

Dibromochloromethane

Dichlorodifluoromethane

1,1,2-Trichloro-1,2,2-trifluoroethane	ND	
• •		
1,1,2-Trichloroethane	ND	
1,1-Dichloroethane	ND	
1,1-Dichloroethene	ND	
1,2,4-Trichlorobenzene	ND	
1,2-Dibromo-3-Chloropropane	ND	
1,2-Dibromoethane	ND	
1,2-Dichlorobenzene	ND	
1,2-Dichloroethane	ND	
1,2-Dichloropropane	ND	
1,3-Dichlorobenzene	ND	
1,4-Dichlorobenzene	ND	
2-Butanone (MEK)	ND	
2-Hexanone	ND	
4-Methyl-2-pentanone (MIBK)	ND	
Acetone	ND	
Benzene	ND	
Bromodichloromethane	ND	
Bromoform	ND	
Bromomethane	ND	
Carbon disulfide	ND	
Carbon tetrachloride	ND	
Chlorobenzene	ND	
Chloroethane	ND	
Chloroform	ND	
Chloromethane	ND	
cis-1,2-Dichloroethene	ND	
cis-1,3-Dichloropropene	ND	

ND	1.0
ND	1.0
ND	10
ND	5.0
ND	5.0
ND	10
ND	1.0

ND

ND

Trichlorofluoromethane

1.0

1.0

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID:

GWP-9-50-52

Lab Sample ID:

480-7633-4

Client Matrix:

Water

Date Sampled: 07/21/2011 1408

Date Received: 07/23/2011 0900

9260D	Vaiatila	Organic	Compounds	(GC/MS)
NZBUB	volatile	Organic	Compounds	166/10/21

Analysis Method:

8260B 5030B Analysis Batch:

480-25103

Instrument ID:

HP5975T

Prep Method:

Prep Batch:

Lab File ID:

T9882.D

Dilution:

1.0

N/A

Initial Weight/Volume:

5 mL

Analysis Date:

07/27/2011 0713

Final Weight/Volume:

Prep Date:

07/27/2011 0713

5 mL

Analyte Vinyl chloride Xylenes, Total

Toluene-d8 (Surr)

Result (ug/L) ND ND

Qualifier

Qualifier

RL 1.0 2.0

Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr)

%Rec 107 93

66 - 137 73 - 120

Acceptance Limits

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID:

GWP-9-50-52

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 5030B Analysis Batch:

480-25103

Instrument ID:

HP5975T

Prep Method: Dilution:

Prep Batch:

Lab File ID:

T9882.D

1.0

N/A

Initial Weight/Volume:

Analysis Date:

07/27/2011 0713

Final Weight/Volume:

5 mL 5 mL

Prep Date:

07/27/2011 0713

Number TIC's Found:

Tentatively Identified Compounds

1

Est. Result (ug/L)

Qualifier

Cas Number

Analyte Unknown RT 3.69

2.9

ΤJ

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

DOCAD	1/-1-411-	O	Compounds	(COMBO)
026UB	volatile	Organic	Compounds	IGC/MS)

Analysis Method: Prep Method:

8260B

Analysis Batch:

480-25103

Instrument ID:

HP5975T

Dilution:

5030B

Prep Batch:

N/A

Lab File ID: Initial Weight/Volume: T9883.D

Analysis Date:

1.0

07/27/2011 0737

5 mL

Prep Date:

Final Weight/Volume:

5 mL

•		D .
Δ	nal	/te

07/27/2011 0737

Analyte	Result (ug/L)	Qualifier	RL
1,1,1-Trichloroethane	ND		1.0
1,1,2,2-Tetrachioroethane	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 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 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
• •	ND ND		1.0
Methylene Chloride	ND ND		1.0
Styrene Tetrachtoroethene	ND ND		1.0
Toluene	ND		1.0
			1.0
trans-1,2-Dichloroethene	ND		1.0
trans-1,3-Dichloropropene	ND		
Trichloroethene	ND		1.0
Trichlorofluoromethane	ND		1.0

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

8260B Volatile	Organia	Compounde	(CC/MS)
8260B Volatile	Urganic	Compounds	(GC/NS)

Analysis Method:

8260B

Analysis Batch:

480-25103

Instrument ID:

HP5975T

Prep Method: Dilution:

5030B

Prep Batch:

N/A

Lab File ID:

T9883.D

1.0

Initial Weight/Volume:

5 mL

Analysis Date:

07/27/2011 0737

Final Weight/Volume:

Prep Date:

07/27/2011 0737

5 mL

Analyte Vinyl chloride Xylenes, Total Result (ug/L) ND

Qualifier

RL 1.0 2.0

Surrogate

ND

Acceptance Limits Qualifier

1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr)

108 94 95

%Rec

66 - 137 73 - 120 71 - 126

Job Number: 480-7633-1

Cilent Sample ID:

Client: Brown and Caldwell

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

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:

8260B

Analysis Batch:

480-25103

0

Instrument ID:

HP5975T

Prep Method:

5030B

Prep Batch:

N/A

Lab File ID:

Dilution:

T9883.D

1.0

Initial Weight/Volume:

5 mL

Analysis Date:

07/27/2011 0737

5 mL

Prep Date:

07/27/2011 0737

Number TIC's Found:

RT

Est. Result (ug/L)

Qualifier

Cas Number Analyte

Tentatively Identified Compounds

Tentatively Identified Compound

None

Final Weight/Volume:

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)
04000	voiaille	Organic	Colliboutius	IGCINISI

Analysis Method:

8260B

Analysis Batch:

480-25103

Instrument ID:

HP5975T

Prep Method: Dilution:

5030B

Prep Batch:

Lab File ID:

T9884.D

1.0

N/A

Initial Weight/Volume:

5 mL

Diracion.	1.0		mada vicigno volume.	0 1112
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-Trichloroeth	nane	ND		1.0
1,1,2,2-Tetrachlor	roethane	ND		1.0
1,1,2-Trichloro-1,3	2,2-trifluoroethane	ND		1.0
1,1,2-Trichloroeth	nane	ND		1.0
1,1-Dichloroethan	ne	ND		1.0
1,1-Dichloroether	ne	ND		1.0
1,2,4-Trichlorober	nzene	ND		1.0
1,2-Dibromo-3-Ch	nloropropane	ND		1.0
1,2-Dibromoethar	ne	ND		1.0
1,2-Dichlorobenze	ene	ND		1.0
1,2-Dichloroethan	ne	ND		1.0
1,2-Dichloropropa	ane	ND		1.0
1,3-Dichlorobenze	ene	ND		1.0
1,4-Dichlorobenze	ene	ND		1.0
2-Butanone (MEK	()	ND		10
2-Hexanone		ND		5.0
4-Methyl-2-pentar	none (MIBK)	ND		5.0
Acetone		ND		10
Benzene		ND		1.0
Bromodichlorome	ethane	ND		1.0
Bromoform		ND		1.0
Bromomethane		ND		1.0
Carbon disulfide		ND		1.0
Carbon tetrachlor	ide	ND		1.0

Job Number: 480-7633-1

Client: Brown and Caldwell

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 5030B Analysis Batch:

480-25103

Instrument ID:

Prep Method:

Prep Batch:

Lab File ID:

HP5975T T9884.D

Dilution:

1.0

N/A

Initial Weight/Volume:

5 mL

Analysis Date:

07/27/2011 0801

Final Weight/Volume:

5 mL

Prep Date:

07/27/2011 0801

Qualifier

Qualifier

RL

Analyte Vinyl chloride Xylenes, Total

ND ND

Result (ug/L)

1.0 2.0

Acceptance Limits

Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr)

104 94 98

%Rec

66 - 137 73 - 120 71 - 126

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: Prep Method:

8260B 5030B Analysis Batch

480-25103

103 Instrument ID:

HP5975T

Dilution:

1.0

Prep Batch:

N/A

Lab File ID:

T9884.D

Analysis Date:

07/27/2011 0801

Initial Weight/Volume:

5 mL

Prep Date:

07/27/2011 0801

Final Weight/Volume:

5 mL

Tentatively Identified Compounds

Number TIC's Found:

1

Est. Result (ug/L)

Qualifier

Cas Number

Analyte Unknown RT 3.69

5.2

TJ

Job Number: 480-7633-1 Client: Brown and Caldwell

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 Com	pounds (GC/MS)
----------------	-------------	----------------

Analysis Method: Prep Method:

8260B

Analysis Batch:

480-24949

Instrument ID:

HP5973P

5030B

Prep Batch:

Lab File ID:

P4159.D

Dilution:

1.0

N/A

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

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

Analysis Method: Prep Method:

8260B 5030B Analysis Batch: Prep Batch:

480-24949

Instrument ID:

HP5973P

Dilution:

1.0

N/A

Lab File ID: Initial Weight/Volume: P4159.D

Analysis Date:

07/26/2011 1457

Final Weight/Volume:

5 mL

Prep Date:

07/26/2011 1457

5 mL

Analyte Vinyl chloride Xylenes, Total Result (ug/L) ND ND

Qualifier

RL 1.0 2.0

Surrogate %Rec Qualifier 1,2-Dichloroethane-d4 (Surr) 93 4-Bromofluorobenzene (Surr) 82 Toluene-d8 (Surr) 86

66 - 137 73 - 120 71 - 126

Acceptance Limits

Job Number: 480-7633-1

Client: Brown and Caldwell

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

5030B

Prep Method: Dilution:

1.0

Analysis Date:

Prep Date:

07/26/2011 1457

07/26/2011 1457

Analysis Batch: Prep Batch:

480-24949

N/A

Instrument ID: Lab File ID:

HP5973P P4159.D

Initial Weight/Volume:

5 mL

Final Weight/Volume:

5 mL

Tentatively Identified Compounds

Number TIC's Found:

RT

Est. Result (ug/L)

Qualifier

Cas Number

Analyte Unknown

6.51

3.1

ΤJ

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

Analysis Method: Prep Method:

8260B 5030B Analysis Batch:

480-24949

0-24949 Instrum

Instrument ID: Lab File ID: HP5973P P4160.D

Dilution: Analysis Date: 1.0

Prep Batch:

N/A

Initial Weight/Volume:

P4160.D 5 mL

Final Weight/Volume:

5 mL

Prep Date:

07/26/2011 1522 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

Job Number: 480-7633-1 Client: Brown and Caldwell

Client Sample ID:

GWP-6-18-20

Lab Sample ID:

480-7633-9

Client Matrix:

Prep Method:

Dilution:

Water

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:

8260B 5030B

1.0

Analysis Date: Prep Date:

Xylenes, Total

07/26/2011 1522

07/26/2011 1522

Analysis Batch: Prep Batch:

480-24949 N/A

Qualifier

Instrument ID: Lab File ID:

HP5973P P4160.D

Initial Weight/Volume:

5 mL

RL

1.0

2.0

Date Sampled: 07/22/2011 0903

Date Received: 07/23/2011 0900

Final Weight/Volume:

5 mL

Analyte Vinyl chloride

Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr)

Toluene-d8 (Surr)

ND ND

Result (ug/L)

%Rec 93 82

86

Acceptance Limits Qualifier

66 - 137 73 - 120 71 - 126

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: Prep Method:

8260B 5030B

1.0

Analysis Date: Prep Date:

Cas Number

Dilution:

07/26/2011 1522

Analyte

07/26/2011 1522

Analysis Batch: 480-24949

N/A

Instrument ID:

Lab File ID:

HP5973P P4160.D

Initial Weight/Volume:

5 mL

Final Weight/Volume:

5 mL

Tentatively !dentified Compounds

Number TIC's Found:

Prep Batch:

0

RT

Est. Result (ug/L)

Qualifier

Tentatively Identified Compound

None

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: Dilution:

TestAmerica Buffalo

5030B 1.0

Prep Batch:

Lab File ID:

P4161.D

Analysis Date:

N/A

Initial Weight/Volume:

5 mL

07/26/2011 1547

Final Weight/Volume:

5 mL

Prep Date:

07/26/2011 1547

1,1,1-Trichloroethane ND 1,0 1,1,2-2-Trichloroethane ND 1,0 1,1,2-Trichloroethane ND 1,0 1,1-2-Trichloroethane ND 1,0 1,1-Dichloroethane ND 1,0 1,1-Dichloroethane ND 1,0 1,1-Dichloroethane ND 1,0 1,2-Hickhoroethane ND 1,0 1,2-Dichloroethane ND 1,0 1,2-Dichloroethane ND 1,0 1,2-Dichloroethane ND 1,0 1,2-Dichloropropane ND 1,0	Analyte	Result (ug/L) Qualifier	RL
1,1,2-Trichloro-1,2,2-trifluroethane ND 1,0 1,1,2-Trichloroethane ND 1,0 1,1-Dichloroethane ND 1,0 1,1-Dichloroethane ND 1,0 1,2-A-Trichloroethane ND 1,0 1,2-Dibromo-3-Chloropropane ND 1,0 1,2-Dichloroethane ND 1,0 1,2-Dichloropropane ND 1,0 1,2-Dichloropropane ND 1,0 1,2-Dichloropropane ND 1,0 1,3-Dichlorobenzene ND 1,0 1,4-Dichlorobenzene ND 1,0 1,4-Dichlorobenzene ND 1,0 2-Bulanone (MEK) ND 1,0 2-Hayanone ND 1,0 4-Methyl-2-pentanone (MBK) ND 5,0 4-Methyl-2-pentanone (MBK) ND 5,0 4-Methyl-2-pentanone (MBK) ND 1,0 Acetone ND 1,0 Benzene ND 1,0 Benzene ND 1,0	1,1,1-Trichloroethane	ND	1.0
1,12-Trichloroethane ND 1,0 1,1-Dichloroethane ND 1,0 1,1-Dichloroethane ND 1,0 1,2-Dicthoroethane ND 1,0 1,2-Dicthoroethane ND 1,0 1,2-Dichloroethane ND 1,0 1,2-Dichloropropane ND 1,0 1,2-Dichloropropane ND 1,0 1,2-Dichlorobenzene ND 1,0 1,3-Dichlorobenzene ND 1,0 1,4-Dichlorobenzene ND 1,0 2-Butanone (MEK) ND 1,0 2-Hexanone ND 1,0 2-Hexanone (MEK) ND 1,0 2-Hexanone (MBK) ND 5,0 4-Methyl-2-pentanone (MIBK) ND 5,0 Acetone ND 1,0 Bernandichloromethane ND 1,0 Bernandichloromethane ND 1,0 Bromodichloromethane ND 1,0 Chloroethane ND 1,0 Chloroethane </td <td>1,1,2,2-Tetrachloroethane</td> <td>ND</td> <td>1.0</td>	1,1,2,2-Tetrachloroethane	ND	1.0
1,1-Dichloroethene ND 1.0 1,1-Dichloroethene ND 1.0 1,2-A-Trichlorobenzene ND 1.0 1,2-Dichromo-3-Chloropropane ND 1.0 1,2-Dichloroethane 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 1,4-Dichlorobenzene ND 1.0 2-Butanone (MEK) ND 1.0 2-Hexanone ND 1.0 4-Methyt-2-pentanone (MIBK) ND 5.0 Acatone ND 1.0 Benzane ND 1.0 Berzene ND 1.0 Berzene ND 1.0 Bromodichloromethane ND 1.0 Bromodithane ND 1.0 Bromomethane ND 1.0 Carbon tetrachloride ND 1.0 Chloroethane ND	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0
1,1-Dichloroethenee ND 1.0 1,2-4-Trichlorobenzene ND 1.0 1,2-Dibromo-3-Chloropropane ND 1.0 1,2-Dichloroethane ND 1.0 1,2-Dichloroethane ND 1.0 1,2-Dichloroethane ND 1.0 1,2-Dichlorobenzene ND 1.0 1,3-Dichlorobenzene ND 1.0 1,4-Dichlorobenzene ND 1.0 2-Butanone (MEK) ND 1.0 2-Hexanone ND 5.0 4-Melthyl-2-pentanone (MIBK) ND 5.0 Acetone ND 1.0 Bernzene ND 1.0 Bromodichloromethane ND 1.0 Bromodichloromethane ND 1.0 Bromodichloromethane ND 1.0 Carbon disulfide ND 1.0 Chloroethane ND 1.0 Chloroethane ND 1.0 Chloroethane ND 1.0 Chloroethane	1,1,2-Trichloroethane	ND	1.0
1,2,4-Trichlorobenzene ND 1,0 1,2-Dibromo-3-Chitorpropane ND 1,0 1,2-Dibriomoethane ND 1,0 1,2-Dibriorobenzene ND 1,0 1,2-Dibrioroptopane ND 1,0 1,2-Dibriorobenzene ND 1,0 1,3-Dichlorobenzene ND 1,0 1,4-Dichlorobenzene ND 1,0 1,4-Dichlorobenzene ND 1,0 1,4-Dichlorobenzene ND 1,0 2-Budanone (MEK) ND 1,0 2-Hexanone ND 5,0 4-Methyl-2-pentanone (MIBK) ND 5,0 4-Methyl-2-pentanone (MIBK) ND 1,0 Acetone ND 1,0 Benzene ND 1,0 Benzene ND 1,0 Bromofichloromethane ND 1,0 Bromoform ND 1,0 Bromoform ND 1,0 Carbon tertachloride ND 1,0 Chlorobenzene	1,1-Dichloroethane	ND	1.0
1,2-Dibromo-3-Chloropropane ND 1.0 1,2-Dibrichoenzene ND 1.0 1,2-Dichlorobenzene ND 1.0 1,2-Dichloroptopane ND 1.0 1,3-Dichlorobenzene ND 1.0 1,3-Dichlorobenzene ND 1.0 2-Butanone (MEK) ND 1.0 2-Hexanone ND 5.0 4-Methyt-2-pentanone (MIBK) ND 5.0 Acetone ND 1.0 Bromodichromethane ND 1.0 Bromodichromethane ND 1.0 Bromodishide ND 1.0 Bromodishide ND 1.0 Carbon idsulfide ND 1.0 Carbon tetrachloride ND 1.0 Chlorobenzene ND 1.0 Chloroform ND 1.0 Chloroformethane ND 1.0 Chloroformethane ND 1.0 Chloromethane ND 1.0 Obromochloromethane ND<	1,1-Dichloroethene	ND	1.0
1,2-Dichlorobenzene ND 1.0 1,2-Dichlorobenzene ND 1.0 1,2-Dichloropropane ND 1.0 1,3-Dichlorobenzene ND 1.0 1,4-Dichlorobenzene ND 1.0 1,4-Dichlorobenzene ND 1.0 2-Budanone (MEK) ND 10 2-Hexanone ND 5.0 4-Methyl-2-pentanone (MIBK) ND 5.0 Acetone ND 10 Benzene ND 1.0 Bernzene ND 1.0 Bromoform ND 1.0 Bromomethane ND 1.0 Bromomethane ND 1.0 Carbon disulfide ND 1.0 Carbon tetrachloride ND 1.0 Chlorobarzene ND 1.0 Chloroethane ND 1.0 Chloroform ND 1.0 Chloroform ND 1.0 Chloroformethane ND 1.0 Chloroforpropene ND 1.0 Cis-1,3-Dichloropropene <td>1,2,4-Trichlorobenzene</td> <td>ND</td> <td>1.0</td>	1,2,4-Trichlorobenzene	ND	1.0
1,2-Dichloroehzene ND 1.0 1,2-Dichloroehzene 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 10 2-Hexanone (MIBK) ND 5.0 Acetone ND 10 Bromodichloromethane ND 1.0 Carbon disulfide ND 1.0 Carbon disulfide ND 1.0 Carbon tetrachloride ND 1.0 Chloroebrazene ND 1.0 Chloroebrazene ND 1.0 Chloroebrazene ND 1.0 Chloroeform ND	1,2-Dibromo-3-Chloropropane	ND	1.0
1,2-Dichloroethane ND 1.0 1,2-Dichloropopane ND 1.0 1,3-Dichlorobenzene ND 1.0 1,4-Dichlorobenzene ND 1.0 2-Bulanone (MEK) ND 10 2-Hexanone ND 5.0 4-Methyl-2-pentanone (MIBK) ND 5.0 4-Methyl-2-pentanone (MIBK) ND 10 Benzene ND 10 Benzene ND 1.0 Benzene ND 1.0 Bromodichloromethane ND 1.0 Bromoform ND 1.0 Bromodichloromethane ND 1.0 Carbon disulfide ND 1.0 Carbon disulfide ND 1.0 Chlorobenzene ND 1.0 Chloroethane ND 1.0	1,2-Dibromoethane	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 Benzane ND 10 Bromodichloromethane ND 1.0 Bromoform 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 Chlorobenzene ND 1.0 Chlororothane ND 1.0 Chlorothane ND 1.0 Cis-1,	1,2-Dichlorobenzene	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 10 Bromodichloromethane ND 1,0 Bromoform ND 1,0 Bromoform ND 1,0 Bromoform ND 1,0 Bromoform ND 1,0 Carbon tetrachloride ND 1,0 Chlorobenzene ND 1,0 Chlorobenzene ND 1,0 Chloroform ND 1,0 Chloromethane ND 1,0 Dibromochloromethane	1,2-Dichloroethane	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 Chlorobenzene ND 1.0 Chlorobenzene ND 1.0 Chlororofram ND 1.0 Chlororoframe ND 1.0 Chlororothene ND 1.0 cis-1,2-Dichloropropene ND 1.0 Cyclohexane ND 1.0 Dibromochloromethane ND 1.0 Dibromochloromethane ND 1.0 Ethylbenzene ND 1.0	1,2-Dichloropropane	ND	1.0
2-Butanone (MEK)	1,3-Dichlorobenzene	ND	1.0
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 Chlorobenzene ND 1.0 Chloroform ND 1.0 Chloroform ND 1.0 Chloromethane ND 1.0 cis-1,2-Dichloroptehene ND 1.0 cis-1,2-Dichloropropene ND 1.0 Cyclohexane ND 1.0 Dibromochloromethane ND 1.0 Dibromochloromethane ND 1.0 Ethylbenzene ND 1.0 Isopropylbenzene ND 1.0 Isopropylbenzene ND 1.0	1,4-Dichlorobenzene	ND	1.0
4-Methyl-2-pentanone (MIBK) ND Acetone ND Benzene ND Bromodichloromethane ND Bromoform ND Bromomethane ND Carbon disulfide ND Carbon disulfide ND Chlorobenzene ND Chlorobenzene ND Chloroethane ND Chloroform ND Chloroform ND Chloromethane ND Chloroform ND Chloromethane ND Chloropropene ND Cyclohexane ND Dichloropropene ND Cyclohexane ND Dichlorodifluoromethane ND Dichlorodifluoromethane ND Dichlorodifluoromethane ND ND 1.0 Isopropylbenzene ND Methyl tert-bulyl ether N	2-Butanone (MEK)	ND	10
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-1,2-Dichloropropene ND 1.0 Cyclohexane ND 1.0 Dibromochloromethane ND 1.0 Dichlorodiffuoromethane ND 1.0 Ethylbenzene ND 1.0 Isopropylbenzene ND 1.0 Methyl acetate ND 1.0 Methyl tert-butyl ether ND 1.0 Methylene Chloride ND 1.0 Styrene ND 1.0	2-Hexanone	ND .	5.0
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 Chlorobenzene ND 1.0 Chloroform ND 1.0 Chloroforme ND 1.0 Chloroforme ND 1.0 Chloroforme ND 1.0 Cis-1,2-Dichloropropene ND 1.0 cis-1,2-Dichloropropene ND 1.0 Cyclohexane ND 1.0 Dibrlorodifluoromethane 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 Methyl tert-butyl ether ND 1.0	4-Methyl-2-pentanone (MIBK)	ND	5.0
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 Chloroform ND 1.0 Chloroethane ND 1.0 Chloroform ND 1.0 Chloroptehene ND 1.0 cis-1,2-Dichloroptopene 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 acetate ND 1.0 Methyl enc Chloride ND 1.0 Mylorophylosetane ND 1.0	Acetone	ND	10
Bromoform ND 1.0 Bromomethane ND 1.0 Carbon disulfide ND 1.0 Carbon tetrachloride ND 1.0 Chlorobenzene ND 1.0 Chlorotethane ND 1.0 Chloroform ND 1.0 Chlorotethane ND 1.0 Cis-1,2-Dichloroethene ND 1.0 cis-1,2-Dichloropropene ND 1.0 Cyclohexane ND 1.0 Cyclohexane ND 1.0 Dibromochloromethane ND 1.0 Dibromochloromethane ND 1.0 Ethylbenzene ND 1.0 Ethylbenzene ND 1.0 Isopropylbenzene ND 1.0 Methyl tert-butyl ether ND 1.0 Methyl tert-butyl ether ND 1.0 Methylene Chloride ND 1.0 Styrene ND 1.0 Tetrachloroethene ND 1.0 <td>Benzene</td> <td>ND</td> <td>1.0</td>	Benzene	ND	1.0
Bromomethane ND 1.0 Carbon disulfide ND 1.0 Carbon tetrachloride ND 1.0 Chlorobenzene ND 1.0 Chlorobenzene ND 1.0 Chlorothane ND 1.0 Chloromethane ND 1.0 Chloromethane ND 1.0 cis-1,2-Dichloropropene ND 1.0 Cyclohexane ND 1.0 Cyclohexane ND 1.0 Dibromochloromethane ND 1.0 Dichlorodifluoromethane ND 1.0 Ethylbenzene ND 1.0 Isopropylbenzene ND 1.0 Isopropylbenzene ND 1.0 Methyl acetate ND 1.0 Methyl tert-butyl ether ND 1.0 Methylene Chloride ND 1.0 Methylene Chloride ND 1.0 Styrene ND 1.0 Tetrachloroethene ND 1.0 <td>Bromodichloromethane</td> <td>ND</td> <td>1.0</td>	Bromodichloromethane	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 Chloromethane ND 1.0 Cis-1,2-Dichloroethene ND 1.0 cis-1,3-Dichloropropene ND 1.0 Cyclohexane ND 1.0 Dibrhomochloromethane ND 1.0 Dichlorodifluoromethane 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 Methylere Chloride ND 1.0 Methylene Chloride ND 1.0 Styrene ND 1.0 Tetrachloroethene ND 1.0 trans-1,2-Dichloroethene <t< td=""><td>Bromoform</td><td>ND</td><td>1.0</td></t<>	Bromoform	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 Cyclohexane ND 1.0 Dibriomochloromethane ND 1.0 Dichlorodifluoromethane ND 1.0 Ethylbenzene ND 1.0 Ethylbenzene ND 1.0 Isopropylbenzene ND 1.0 Methyl acetate ND 1.0 Methyl ert-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-Dichloropropene ND 1	Bromomethane	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 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 Trans-1,2-Dichloroethene ND 1.0 trans-1,2-Dichloropropene ND 1.0 Trichloroethene ND 1.0	Carbon disulfide	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 Eithylbenzene 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 Trichloroethene ND 1.0 Trichloroethene ND 1.0	Carbon tetrachloride	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	Chlorobenzene	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	Chloroethane	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 Methylckohexane 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	Chloroform	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	Chloromethane	ND	1.0
Cyclohexane ND 1.0 Dibromochloromethane ND 1.0 Dichlorodiffuoromethane 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	cis-1,2-Dichloroethene	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	cis-1,3-Dichloropropene	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 Trichloroethene ND 1.0	Cyclohexane	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	Dibromochloromethane	ND	1.0
Sopropylbenzene	Dichlorodifluoromethane	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	Ethylbenzene	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	Isopropylbenzene	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	Methyl acetate	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	Methyl tert-butyl ether	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	Methylcyclohexane		
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	Methylene Chloride		
Toluene ND 1.0 trans-1,2-Dichloroethene ND 1.0 trans-1,3-Dichloropropene ND 1.0 Trichloroethene ND 1.0	•		
trans-1,2-Dichloroethene ND 1.0 trans-1,3-Dichloropropene ND 1.0 Trichloroethene ND 1.0	Tetrachloroethene		
trans-1,3-Dichloropropene ND 1.0 Trichloroethene ND 1.0	Toluene		
Trichloroethene ND 1.0			
	• •		
Trichlorofluoromethane ND 1.0			
	Trichlorofluoromethane	ND	1.0

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	Organia	Compounds	(CC/MS)
0260B VOIATHE	Organic	Compounds	100/1031

Analysis Method: Prep Method:

8260B 5030B Analysis Batch:

480-24949

Instrument ID:

HP5973P

Dilution:

1.0

Prep Batch:

N/A

Lab File ID:

P4161.D

Analysis Date:

Initial Weight/Volume:

Final Weight/Volume:

5 mL

Prep Date:

07/26/2011 1547

5 mL

07/26/2011 1547

Qualifier

Qualifier

RL

Analyte Vinyl chloride Xylenes, Total Result (ug/L) ND ND

1.0 2.0

Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr)

66 - 137 73 - 120 71 - 126

Acceptance Limits

Job Number: 480-7633-1

Client: Brown and Caldwell

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

0

Instrument ID:

HP5973P

Prep Method:

5030B

Lab File ID:

Dilution:

1.0

Prep Batch:

N/A

P4161.D

Analysis Date:

Initial Weight/Volume:

5 mL

Prep Date:

Cas Number

07/26/2011 1547 07/26/2011 1547

Analyte

Final Weight/Volume: 5 mL

Tentatively Identified Compounds

Number TIC's Found:

RT

Est. Result (ug/L)

Qualifier

Tentatively Identified Compound

None

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	(CC/MS)
040UD	voiatile	Cluanic	Compounds	(GC/WS)

Analysis Method: Prep Method:

8260B 5030B Analysis Batch: Prep Batch:

480-24949

Instrument ID:

HP5973P

Dilution:

N/A

Lab File ID:

P4162.D

Analysis Date:

1.0 07/26/2011 1612

Initial Weight/Volume:

5 mL

Prep Date:

07/26/2011 1612

Final Weight/Volume:

5 mL

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

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)
OZOUD VUIALIE	Cidalic	Collibonting	I GOURIOI

Analysis Method:

8260B 5030B Analysis Batch:

480-24949

Instrument ID:

HP5973P

Prep Method: Dilution:

1.0

Prep Batch:

N/A

Lab File ID:

Initial Weight/Volume:

Final Weight/Volume:

P4162.D

Analysis Date:

07/26/2011 1612

Qualifier

5 mL 5 mL

Prep Date:

07/26/2011 1612

Qualifier Result (ug/L)

RL

Analyte Vinyl chloride Xylenes, Total

ND ND

1.0 2.0

Surrogate 1,2-Dichtoroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr)

66 - 137 73 - 120 71 - 126

Acceptance Limits

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 Voiatile Organic Compounds (GC/MS)

Analysis Method: Prep Method:

Cas Number

8260B 5030B Analysis Batch:

480-24949

Instrument ID:

HP5973P

Dilution:

1.0

Lab File ID:

P4162.D

Prep Batch:

N/A

Initial Weight/Volume:

Analysis Date: 07/26/2011 1612

Prep Date:

5 mL

Analyte

07/26/2011 1612

Final Weight/Volume:

5 mL

Tentatively Identified Compounds

Number TIC's Found:

RT

Est. Result (ug/L)

Qualifier

Tentatively Identified Compound

None

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 Voiatile Organic Compounds (GC/MS)

Analysis Method:

8260B

Analysis Batch:

480-24949

Instrument ID:

HP5973P

Prep Method:

5030B

Prep Batch:

N/A

Lab File ID: Initial Weight/Volume: P4163.D

Dilution: Analysis Date: 1.0

07/26/2011 1637

5 mL

Prep Date:

07/26/2011 1637

Final Weight/Volume:

5 mL

Analyte	Result (ug/L) Qualifier	RL
1,1,1-Trichloroethane	ND	1.0
1,1,2,2-Tetrachioroethane	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 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	
Methyl tert-butyl ether		1.0
Methylcyclohexane	ND ND	1.0
• •		1.0
Methylene Chloride	ND ND	1.0
Styrene Tetrachloroethene	ND ND	1.0
	ND NO	1.0
Toluene	ND 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

Job Number: 480-7633-1

Client: Brown and Caldwell

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 5030B Analysis Batch:

480-24949

Instrument ID:

HP5973P

Prep Method:

1.0

Lab File ID:

Prep Batch:

P4163.D

Dilution:

N/A

Initial Weight/Volume:

5 mL

Analysis Date: Prep Date:

07/26/2011 1637

07/26/2011 1637

Final Weight/Volume:

5 mL

Analyte

Result (ug/L) ND

Qualifier

Qualifier

RL 1.0

Vinyl chloride Xylenes, Total

Toluene-d8 (Surr)

ND

Acceptance Limits

2.0

Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr)

94 81 86

%Rec

66 - 137 73 - 120 71 - 126

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 Voiatile Organic Compounds (GC/MS)

Analysis Method:

8260B 5030B Analysis Batch:

480-24949

Instrument ID:

HP5973P

Prep Method: Dilution:

Prep Batch:

N/A

Lab File ID:

P4163.D

07/26/2011 1637

1.0

Initial Weight/Volume:

5 mL

Analysis Date:

Final Weight/Volume:

5 mL

Prep Date:

Cas Number

115-7-1

115-11-7

109-67-1

07/26/2011 1637

Analyte

Propene

Unknown

1-Pentene

Unknown

1-Propene, 2-methyl-

Tentatively Identified Compounds

Number TIC's Found:

RT	Est. Result (ug/L)	Qualifier
2.71	25	TJN
3.11	4.3	TJN
3.22	2.9	ΤJ
4.05	2.6	TJN
6.51	5.4	TJ

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: Prep Method:

8260B

Analysis Batch:

480-24949

Instrument ID:

HP5973P

Dilution:

5030B

Prep Batch:

N/A

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

1.0

Analysis Date:

TestAmerica Buffalo

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	03	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		_e 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	1.0
2-Butanone (MEK)	ND	1	10
2-Hexanone	ND		5.0
4-Methyl-2-pentanone (MIBK)	ND	1	5.0
Acetone	ND	1	10
Benzene	ND	1	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	1.0
Chloroethane	ND	1	1.0
Chloroform	ND		1.0
Chloromethane	ND	1	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	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	1.0
Toluene	ND	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

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)	١
-------	----------	---------	-----------	---------	---

Analysis Method:

8260B 5030B Analysis Batch:

480-24949

Instrument ID:

HP5973P

Prep Method: Dilution:

1.0

Prep Batch:

Lab File ID:

N/A

P4164.D

Initial Weight/Volume: Final Weight/Volume:

5 mL

Analysis Date: Prep Date:

07/26/2011 1702 07/26/2011 1702

5 mL

Analyte Vinyl chloride

Result (ug/L) ND ND

Qualifier P

RL 1.0 2.0

Xylenes, Total

Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr)

%Rec 96 81

86

Qualifier

66 - 137 73 - 120 71 - 126

Acceptance Limits

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 Voiatile Organic Compounds (GC/MS)

Analysis Method: Prep Method:

8260B 5030B Analysis Batch: Prep Batch:

480-24949

Instrument ID:

HP5973P

Dilution:

Lab File ID:

1.0

N/A

P4164.D

Analysis Date:

Analyte

Propene

1-Pentene

Unknown

1-Propene, 2-methyl-

Initial Weight/Volume:

5 mL

07/26/2011 1702

Final Weight/Volume:

5 mL

Prep Date:

Cas Number

115-7-1

115-11-7

109-67-1

07/26/2011 1702

Tentatively Identified Compounds

Number TIC's Found:

RT	Est. Result (ug/L)	Qualifier
2.73	31	TJN
3.12	6.3	TJN
4.05	3.6	TJN
6.51	4.2	TJ

Job Number: 480-7633-1

Client Sample ID:

TRIP BLANK

Lab Sample ID:

480-7633-14

Client Matrix:

Water

Date Sampled: 07/22/2011 0000 Date Received: 07/23/2011 0900

8260B	Volatile	Organic	Compounds ((GC/MS)	
-------	----------	---------	-------------	---------	--

Analysis Method:

8260B

Analysis Batch: Prep Batch:

480-24949

Instrument ID: Lab File ID:

HP5973P

Prep Method: Dilution:

5030B 1.0

N/A

Initial Weight/Volume:

P4167.D 5 mL

Analysis Date:

07/26/2011 1827

Prep Date:

Final Weight/Volume:

5 mL

Analyte
1,1,1-Trichlo
1,1,2,2-Tetra
1,1,2-Trichlo
1,1,2-Trichlo
1,1-Dichloro
1,1-Dichloroe
1,2,4-Trichlo
1.2-Dibromo

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

Job Number: 480-7633-1 Client: Brown and Caldwell

Client Sample ID:

TRIP BLANK

Lab Sample ID:

480-7633-14

Client Matrix:

Water

Date Sampled: 07/22/2011 0000

Date Received: 07/23/2011 0900

BOCKE I	/olatile	Organic	Compounds	(GC/MS)
82608	volatile	Urganic	Compounds	(GC/NO)

Analysis Method:

8260B 5030B Analysis Batch:

480-24949

Instrument ID:

HP5973P

Prep Method:

1.0

Prep Batch:

Lab File ID:

P4167.D

Dilution:

N/A

Initial Weight/Volume:

5 mL

Analysis Date:

07/26/2011 1827

Final Weight/Volume:

5 mL

Prep Date:

07/26/2011 1827

Qualifier

Qualifier

Analyte Vinyl chloride Xylenes, Total Result (ug/L) ND ND

1.0 2.0

RL

Surrogate 1,2-Dichloroethane-d4 (Surr)

%Rec 95

66 - 137 73 - 120

80 85

71 - 126

Acceptance Limits

Client: Brown and Caldwell

Job Number: 480-7633-1

Date Sampled: 07/22/2011 0000

Date Received: 07/23/2011 0900

Client Sample ID:

TRIP BLANK

Lab Sample ID:

Analysis Method:

Prep Method:

Cas Number

480-7633-14

Client Matrix:

Water

8260B Volatile Organic Compounds (GC/MS)

8260B 5030B

Dilution: 1.0

Analysis Date:

Prep Date:

Analyte

07/26/2011 1827

07/26/2011 1827

Analysis Batch: 480-24949

N/A

Instrument ID:

Lab File ID:

HP5973P P4167.D

Initial Weight/Volume:

5 mL

Final Weight/Volume:

5 mL

Tentatively Identified Compounds

Number TIC's Found:

Prep Batch:

RT

Est. Result (ug/L)

Qualifier

Tentatively Identified Compound

None

Job Number: 480-7633-1 Client: Brown and Caldwell

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

BOCOD !	Valatila	Organic	Compounds	(GC/MS)
nzeuB	volatile	Organic	Compounds	(GC/MO)

Analysis Method:

8260B

Analysis Batch: Prep Batch:

480-24985

Instrument ID:

HP5973G

Prep Method:

5030B

Lab File ID:

G4497.D

Dilution:

1.0

N/A

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
The her onderentance	NO		

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

Analysis Method: Prep Method:

8260B 5030B

Analysis Batch:

480-24985

Instrument ID:

HP5973G

Dilution:

1.0 07/26/2011 1632 Prep Batch:

N/A

Lab File ID:

G4497.D

Initial Weight/Volume: Final Weight/Volume:

5 mL

Analysis Date: Prep Date:

07/26/2011 1632

5 mL

Analyte Vinyl chloride Xylenes, Total Result (ug/L) 2.3

Qualifier

RL

1.0

2.0

%Rec Qualifier Acceptance Limits Surrogate 66 - 137 121 1,2-Dichloroethane-d4 (Surr)

4-Bromofluorobenzene (Surr) 104 Toluene-d8 (Surr) 112 73 - 120 71 - 126

Job Number: 480-7633-1 Client: Brown and Caldwell

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: Prep Method:

8260B 5030B

480-24985 Analysis Batch:

Instrument ID:

HP5973G

Dilution:

1.0

Prep Batch:

N/A

Lab File ID:

G4497.D

07/26/2011 1632

Initial Weight/Volume:

5 mL

Analysis Date: Prep Date:

Cas Number

07/26/2011 1632

Analyte

Final Weight/Volume:

5 mL

Tentatively Identified Compounds

Number TIC's Found:

RT

0

Est. Result (ug/L)

Qualifier

Tentatively Identified Compound

None

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 5030B Analysis Batch:

480-24985

Instrument ID:

HP5973G

Prep Method: Dilution:

1.0

Prep Batch:

N/A

Lab File ID: Initial Weight/Volume: G4498.D 5 mL

Analysis Date:

07/26/2011 1656

5 mL

Prep Date:

07/26/2011 1656

Final Weight/Volume:

1,1-7richloroethane	Analyte	Result (ug/L)	Qualifier	RL
1,1,2,2-Teitachloroethane ND 1,0 1,1,2-Trichloroethane ND 1,0 1,1,2-Trichloroethane ND 1,0 1,1-Dichloroethane ND 1,0 1,1-Dichloroethane ND 1,0 1,1-Dichloroethane ND 1,0 1,2-Dichloroethane ND 1,0 1,2-Dichloroethane ND 1,0 1,2-Dichloroethane ND 1,0 1,2-Dichloropropane ND 1,0 1,2-Dichloropropane ND 1,0 1,3-Dichlorobenzene ND 1,0 1,4-Dichlorobenzene ND 1,0 1,4-Dichlorobenzene ND 1,0 1,4-Dichlorobenzene ND 1,0 1,4-Dichlorobenzene ND 1,0 2-blearone (MEK) ND 1,0 2-blearone (MEK) ND 5,0 4-Methyl-2-pentanone (MIBK) ND 5,0 Acetone ND 1,0 Benzene ND 1,0 Brow	1,1,1-Trichloroethane			
1,1,2-Trichlorocretane ND 1,0 1,1-2-Trichlorocethane ND 1,0 1,1-2-Trichlorocethane ND 1,0 1,1-Dichlorocethane ND 1,0 1,2-4-Trichlorobenzene ND 1,0 1,2-Dibromo-3-Chloropropane ND 1,0 1,2-Dibromo-3-Chloropropane ND 1,0 1,2-Dichlorocethane ND 1,0 1,2-Dichloropropane ND 1,0 1,2-Dichlorobenzene ND 1,0 1,3-Dichlorobenzene ND 1,0 1,4-Dichlorobenzene ND 1,0 1,4-Dichlorobenzene ND 1,0 1,4-Dichlorobenzene ND 1,0 1,4-Dichlorobenzene ND 1,0 2-Busanone ND 1,0 4-Methyl-2-pentanone (MEK) ND 5,0 4-Methyl-2-pentanone (MIBK) ND 5,0 A-Delchoromethane ND 1,0 Benzane ND 1,0 Bromoform ND 1,0 <td>1,1,2,2-Tetrachloroethane</td> <td>ND</td> <td></td> <td></td>	1,1,2,2-Tetrachloroethane	ND		
1,12-Trichloroethane ND 1.0 1,1-Dichloroethane ND 1.0 1,1-Dichloroethane ND 1.0 1,2-Firchlorobenzene ND 1.0 1,2-Dibromoethane ND 1.0 1,2-Dibromoethane ND 1.0 1,2-Dichloroethane ND 1.0 2-Butanone (MEK) ND 1.0 2-Butanone (MEK) ND 1.0 2-Hasanone (MIBK) ND 1.0 4-Methyl-2-pentanone (MIBK) ND 1.0 A-Methyl-2-pentanone (MIBK) ND 1.0 Benzene ND 1.0 Bromodichloromethane ND 1.0 B	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		
1,1-Dichloroethane ND 1,0 1,2-4-Trichlorobenzene ND 1,0 1,2-Dibromo-3-Chloropropane ND 1,0 1,2-Dibromo-3-Chloropropane ND 1,0 1,2-Dichlorobenzene ND 1,0 1,2-Dichloroptopane ND 1,0 1,2-Dichloroptopane ND 1,0 1,3-Dichlorobenzene ND 1,0 1,3-Dichlorobenzene ND 1,0 1,4-Dichlorobenzene ND 1,0 2-Butanone (MEK) ND 1,0 2-Hexanone ND 1,0 4-Methyl-2-pentanone (MIBK) ND 5,0 4-Methyl-2-pentanone (MIBK) ND 5,0 4-Methyl-2-pentanone (MIBK) ND 1,0 Benzene ND 1,0 Benzene ND 1,0 Benzene ND 1,0 Bromoform ND 1,0 Bromoform ND 1,0 Bromoform ND 1,0 Carbon tetrachloride </td <td></td> <td></td> <td></td> <td></td>				
1,1-Dichloroethene ND 1,0 1,2,4-Trichlorobenzene ND 1,0 1,2-Dibromo-3-Chloropropane ND 1,0 1,2-Dichlorobenzene ND 1,0 1,2-Dichlorobenzene ND 1,0 1,2-Dichlorobenzene ND 1,0 1,2-Dichlorobenzene ND 1,0 1,3-Dichlorobenzene ND 1,0 1,4-Dichlorobenzene ND 1,0 2-Butanone (MEK) ND 1,0 2-Hexanone ND 5,0 4-Methyl-2-pentanone (MIBK) ND 5,0 Acetone ND 1,0 Bernzene ND 1,0 Bromodichloromethane ND 1,0 Bromodichloromethane ND 1,0 Bromodichloromethane ND 1,0 Carbon disulfide ND 1,0 Chlorobenzene ND 1,0 Chlorobenzene ND 1,0 Chlorobenzene ND 1,0 Chlorobenzene	1,1-Dichloroethane	ND		
1,2,4-frichlorobenzene ND 1,0 1,2-Dibromo-3-Chloropropane ND 1,0 1,2-Dibromo-3-Chloropropane ND 1,0 1,2-Dichlorobenzene ND 1,0 1,2-Dichloropropane ND 1,0 1,3-Dichlorobenzene ND 1,0 1,4-Dichlorobenzene ND 1,0 1,4-Dichlorobenzene ND 1,0 2-Butanone (MEK) ND 10 2-Hexanone ND 5,0 4-Methyl-2-pentanone (MBK) ND 5,0 4-Methyl-2-pentanone (MBK) ND 10 Acetone ND 10 Benzene ND 1,0 Benzene ND 1,0 Bromodichloromethane ND 1,0 Bromodichloromethane ND 1,0 Bromodichloromethane ND 1,0 Carbon tetrachloride ND 1,0 Carbon tetrachloride ND 1,0 Chloropenzene ND 1,0 Chlor	1,1-Dichloroethene	ND		
1,2-Dibromo-3-Chitoropropane ND 1,0 1,2-Dibromoethane ND 1,0 1,2-Dichlorobenzene ND 1,0 1,2-Dichloropropane ND 1,0 1,3-Dichlorobenzene ND 1,0 1,4-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 10 Bromodichloromethane ND 1,0 Bromodichloromethane ND 1,0 Bromodichloromethane ND 1,0 Carbon disulfide ND 1,0 Carbon disulfide ND 1,0 Chlorobenzene ND 1,0 Chloroform ND 1,0 Chloroformethane ND 1,0 Chloroformethane ND 1,0 Dichlorodifluoromethane	1,2,4-Trichlorobenzene	ND		
1,2-Dichromoethane ND 1,0 1,2-Dichloroethane ND 1,0 1,2-Dichloropropane ND 1,0 1,2-Dichloropropane ND 1,0 1,3-Dichlorobenzene ND 1,0 1,3-Dichlorobenzene ND 1,0 2-Butanone (MEK) ND 10 2-Hexanone ND 5,0 4-Methyl-2-pentanone (MIBK) ND 5,0 4-Methyl-2-pentanone (MIBK) ND 5,0 4-Methyl-2-pentanone (MIBK) ND 1,0 Benzene ND 1,0 Bromodichloromethane ND 1,0 Bromodichloromethane ND 1,0 Bromodishife ND 1,0 Carbon disulfide ND 1,0 Carbon disulfide ND 1,0 Chlorodenzene ND 1,0 Chloroform ND 1,0 Chloroformethane ND 1,0 Chloromethane ND 1,0 Chlorodifluoromethane <td>1,2-Dibromo-3-Chloropropane</td> <td>ND</td> <td></td> <td></td>	1,2-Dibromo-3-Chloropropane	ND		
1,2-Dichlorobenzene ND 1,0 1,2-Dichloroptropane ND 1,0 1,2-Dichlorobenzene ND 1,0 1,3-Dichlorobenzene ND 1,0 1,4-Dichlorobenzene ND 1,0 2-Butanone (MEK) ND 1,0 2-Hexanone ND 5,0 4-Methyl-2-pentanone (MIBK) ND 5,0 Acetone ND 1,0 Benzene ND 1,0 Bromodichloromethane ND 1,0 Bromodichloromethane ND 1,0 Bromodichloromethane ND 1,0 Bromodichloromethane ND 1,0 Carbon disulfide ND 1,0 Carbon disulfide ND 1,0 Carbon tetrachloride ND 1,0 Chloroptane ND 1,0 Chloroptane ND 1,0 Chloroptane ND 1,0 Chloroptomethane ND 1,0 Cyclohexane ND	1,2-Dibromoethane	ND		
1,2-Dichloroethane ND 1.0 1,2-Dichloropopane ND 1.0 1,3-Dichlorobenzene ND 1.0 2-Butanone (MEK) ND 10 2-Hexanone ND 5.0 4-Methyl-2-pentanone (MIBK) ND 5.0 A-detone ND 10 Benzene ND 10 Bromodichloromethane ND 1.0 Bromodichloromethane ND 1.0 Bromodichloromethane ND 1.0 Bromodishloromethane ND 1.0 Carbon tetrachloride ND 1.0 Carbon tetrachloride ND 1.0 Chlorobenzene ND 1.0 Chlorobenzene ND 1.0 Chlorodethane ND 1.0 Chlorodethane ND 1.0 Chloromethane ND 1.0 cis-1,2-Dichloroethene ND 1.0 cis-1,2-Dichloroethene ND 1.0 cis-1,2-Dichloroethene	1,2-Dichlorobenzene	ND		
1,2-Dichloropropane ND 1,0 1,3-Dichlorobenzene ND 1,0 1,4-Dichlorobenzene ND 1,0 2-Bulanone (MEK) ND 10 2-Hexanone ND 5.0 4-Methyl-2-pentanone (MIBK) ND 5.0 Acetone ND 10 Benzene ND 1.0 Bernodichloromethane ND 1.0 Bromodichloromethane ND 1.0 Bromodichloromethane ND 1.0 Bromodichloromethane ND 1.0 Carbon disulfide ND 1.0 Carbon disulfide ND 1.0 Carbon tetrachloride ND 1.0 Chlorosethane ND 1.0 Chlorosethane ND 1.0 Chlorosethane ND 1.0 Chloromethane ND 1.0 Chloromethane ND 1.0 Cis-1,2-Dichloropropene ND 1.0 Cyclohexane ND	1,2-Dichloroethane	ND		
1,4-Dichlorobenzene ND 1.0 2-Butanone (MEK) ND 5.0 4-Methyl-2-pentanone (MIBK) ND 5.0 4-Methyl-2-pentanone (MIBK) ND 5.0 Acetone ND 1.0 Benzene ND 1.0 Beromodichloromethane ND 1.0 Bromoform ND 1.0 Bromomethane ND 1.0 Carbon disulfide 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 Chloroethane ND 1.0	1,2-Dichloropropane	ND		
1.4-Dichlorobenzene ND 2-Butanone (MEK) ND 2-Hexanone ND 4-Methyl-2-pentanone (MIBK) ND Acetone ND Benzene ND Berzene ND Bromodichloromethane ND Bromofform ND Bromomethane ND Carbon disulfide ND ND 1.0 Chlorobarzene ND ND 1.0 Chlorobarzene ND Chloroform ND Chloroformethane ND ND 1.0 Chloropene ND Cyclohexane ND ND 1.0 Dibromochloromethane ND ND 1.0 Dibromochloromethane ND Ethylbenzene ND ND 1.0 <td>1,3-Dichlorobenzene</td> <td>ND</td> <td></td> <td></td>	1,3-Dichlorobenzene	ND		
2-Butanone (MEK) 2-Hexanone ND 3-Hexanone ND 4-Methyl-2-pentanone (MIBK) ND Acatone Renzene ND Benzene ND Bromodichloromethane ND Bromodichloromethane ND Romodichloromethane ND Romodi	1,4-Dichlorobenzene	ND		
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 Chlorobenzene ND 1.0 Chlorodenane ND 1.0 Cyclohexane ND 1.0 Dichlorodifluoromethane ND 1.0 Ethylbenze	2-Butanone (MEK)	ND		
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 Chloroethane ND 1.0 Chloromethane ND 1.0 Chloromethane ND 1.0 Chloromethane ND 1.0 Cyclohexane ND 1.0 Cyclohexane ND 1.0 Cyclohexane ND 1.0 Dichlorodifluoromethane ND 1.0 Dichlorodifluoromethane ND 1.0 Ethylbenzene ND 1.0 Isopropylbenzene ND 1.0 Methyl tert-butyl ether ND 1.0 Methyl tert-butyl ether ND 1.0		^ ND		5.0
Benzene	4-Methyl-2-pentanone (MIBK)	ND		5.0
Bromodichloromethane	Acetone	ND		10
Bromoform	Benzene	ND		1.0
Bromomethane	Bromodichloromethane	ND		1.0
Carbon disulfide ND 1.0 Carbon tetrachloride ND 1.0 Chlorobenzene ND 1.0 Chlorotethane 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 Dichlorodifluoromethane ND 1.0 Ethylbenzene ND 1.0 Methyl berzene ND 1.0 Methyl acetate ND 1.0 Methyl tert-butyl ether ND 1.0 Methyl tert-butyl ether ND 1.0 Methylcyclohexane ND 1.0 Methylcyclohexane ND 1.0 Methylcyclohexane ND 1.0 Styrene ND 1.0 Tetrachloroethene <td< td=""><td>Bromoform</td><td>ND</td><td></td><td>1.0</td></td<>	Bromoform	ND		1.0
Carbon tetrachloride ND 1.0 Chloroebenzene ND 1.0 Chloroethane ND 1.0 Chloroform ND 1.0 Chloromethane ND 1.0 cis-1,2-Dichloroethene ND 1.0 cis-1,2-Dichloropropene ND 1.0 Cyclohexane ND 1.0 Dibromochloromethane ND 1.0 Dichlorodifluoromethane 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 Methylene Chloride ND 1.0 Mylene 1.0 1.0 Styrene ND 1.0 Tetrachloroethene ND 1.0 Trans-1,2-Dichloroethene ND 1.0 Trans-1,3-Dichloropropene ND 1.0 Trichloroethene <t< td=""><td>Bromomethane</td><td>ND</td><td></td><td>1.0</td></t<>	Bromomethane	ND		1.0
Chlorobenzene ND 1.0 Chlorothane 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 etr-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 Trichloroethene ND	Carbon disulfide	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 acetate ND 1.0 Methyl tert-butyl ether ND 1.0 Methylcyclohexane 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 <td></td> <td>ND</td> <td></td> <td>1.0</td>		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 Trichloroethene ND 1.0		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 Methylchene 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 Trichloroethene ND 1.0		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 Methylcylohexane 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 Trichloroethene ND 1.0 Trichloroethene ND 1.0		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-Dichloropropene ND 1.0 Trichloroethene ND 1.0 Trichloroethene ND 1.0		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 Trichloroethene ND 1.0 Trichloroethene ND 1.0 Trichloroethene ND 1.0	•			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 Trichloroethene ND 1.0 Trichloroethene ND 1.0 Trichloroethene ND 1.0				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 Trichloroethene ND 1.0 Trichloroethene ND 1.0	•			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 Trichloroethene ND 1.0 Trichloropropene ND 1.0 Trichloroethene ND 1.0				1.0
Isopropylbenzene				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 Trichloroethene ND 1.0 Trichloroethene ND 1.0	-			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 Trichloroethene ND 1 0	* **			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	•			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	· · · · · · · · · · · · · · · · · · ·			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	• •			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		· · =		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	•			1.0
trans-1,2-Dichloroethene ND 1.0 trans-1,3-Dichloropropene ND 1.0 Trichloroethene ND 1.0				1.0
trans-1,3-Dichloropropene ND 1.0 Trichloroethene ND 1.0				1.0
Trichloroethene ND 1.0	,			1,0
7:11				1.0
i richioroffuoromethane ND 1.0				
	Inchioroffuoromethane	ND		1.0

Job Number: 480-7633-1

Client: Brown and Caldwell

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 Comp	ounds (GC/MS	3)
----------------	--------------	--------------	----

Analysis Method:

8260B 5030B Analysis Batch:

480-24985

Instrument ID:

HP5973G

Prep Method: Dilution:

1.0

Prep Batch:

N/A

Lab File ID:

G4498.D

07/26/2011 1656

Initial Weight/Volume:

5 mL

Analysis Date:

Final Weight/Volume:

5 mL

Prep Date:

07/26/2011 1656

Analyte Vinyl chloride Result (ug/L) ND ND

Qualifier

RL1.0 2.0

Xylenes, Total

Surrogate

%Rec

Acceptance Limits Qualifier 66 - 137

1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr)

121 106 112

73 - 120 71 - 126

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:

Lab File ID:

Dilution:

1.0

N/A

Initial Weight/Volume:

G4498.D

Analysis Date:

07/26/2011 1656

Final Weight/Volume:

5 mL 5 mL

Prep Date:

07/26/2011 1656

Number TIC's Found:

0

RT

Est. Result (ug/L)

Qualifier

Cas Number Analyte

Tentatively Identified Compounds

Tentatively Identified Compound

None

08/12/2011

Job Number: 480-7633-1 Client: Brown and Caldwell

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: Prep Method:

8260B

Analysis Batch:

480-24985

Instrument ID:

HP5973G

Dilution:

5030B

Prep Batch:

Lab File ID:

G4499.D

1.0

N/A

Initial Weight/Volume:

5 mL

Analysis Date:

07/26/2011 1719

Final Weight/Volume:

5 mL

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 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
			•••

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

Analysis Method:

8260B 5030B Analysis Batch:

480-24985

Instrument ID:

HP5973G

Prep Method: Dilution:

1.0

Prep Batch:

N/A

Lab File ID:

G4499.D

Initial Weight/Volume:

5 mL

Analysis Date: Prep Date:

07/26/2011 1719

07/26/2011 1719

Final Weight/Volume:

5 mL

Analyte Viny! chloride Xylenes, Total Result (ug/L) ND ND

Qualifier

Qualifier

RL

1.0 2.0

Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr)

121 104 106

%Rec

66 - 137 73 - 120 71 - 126

Acceptance Limits

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 5030B

Analysis Batch: Prep Batch:

480-24985

Instrument ID:

HP5973G

Prep Method:

N/A

Lab File ID:

Dilution:

1.0

G4499.D

07/26/2011 1719

Initial Weight/Volume:

5 mL

Analysis Date: Prep Date:

Cas Number

07/26/2011 1719

Analyte

0

Final Weight/Volume:

5 mL

Tentatively Identified Compounds

Number TIC's Found:

RT

Est. Result (ug/L)

Qualifier

Tentatively Identified Compound

None

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

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: Prep Method:

8260B

Analysis Batch: Prep Batch:

480-24985

Instrument ID:

HP5973G

5030B

N/A

Lab File ID:

G4500.D

Dilution:

1.0

Initial Weight/Volume:

5 mL

			miliai vvoigna voiamo.	O 1112
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	3	ND		1.0
1,1,2,2-Tetrachloroet	hane	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-Trichlorobenze	ne	ND		1.0
1,2-Dibromo-3-Chlore	opropane	ND		1.0
1,2-Dibromoethane		ND		1.0
1,2-Dichlorobenzene		ND U)		1.0
1,2-Dichloroethane		ND UJ		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-pentanon	e (MIBK)	ND		5.0
Acetone		ND		10
Benzene		ND		1.0
Bromodichlorometha	ne	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-Dichloroethen	e	C O DN		1.0
cis-1,3-Dichloroprope	ne	ND		1.0

i, i, i- monioroeulane	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 U)	1.0
1,2-Dichloroethane	ND UT	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 UJ	1.0
cis-1,3-Dichloropropene	ND	1.0
Cyclohexane	ND	1.0
Dibromochloromethane	ND	1.0
Dichlorodifluoromethane	ND	1,0
Ethylbenzene	ND U J	1.0
!sopropylbenzene	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 U 3	1.0
Trichlorofluoromethane	ND	1.0

Job Number: 480-7633-1

Client: Brown and Caldwell

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

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:

8260B 5030B Analysis Batch:

480-24985

Instrument ID:

HP5973G

Prep Method:

Prep Batch:

N/A

1.0

Lab File ID:

G4500.D

Dilution:

Initial Weight/Volume: Final Weight/Volume:

5 mL

Analysis Date:

07/26/2011 1742

5 mL

Prep Date:

07/26/2011 1742

Result (ug/L)

Qualifier

RL 1.0

Analyte Vinyl chloride Xylenes, Total

Toluene-d8 (Surr)

ND ND

Qualifier

2.0

Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr)

120 103 66 - 137 73 - 120

Acceptance Limits

%Rec

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

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: Prep Method:

8260B 5030B Analysis Batch:

480-24985

Instrument ID:

HP5973G

Dilution:

1.0

Prep Batch:

N/A

Lab File ID:

G4500.D

Analysis Date:

07/26/2011 1742

5 mL

Prep Date:

07/26/2011 1742

Initial Weight/Volume: Final Weight/Volume: 5 mL

Tentatively Identified Compounds

Number TIC's Found:

2

Cas Number Analyte 115-11-7

1-Propene, 2-methyl-

1.59

RT

Est. Result (ug/L) 2.9

Qualifier TJN

Unknown

4.54

2.6

ΤJ

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 Vol	atile Organic	Compounds	(GC/MS)	į
-----------	---------------	-----------	---------	---

Analysis Method:

8260B

Analysis Batch:

480-24985

Instrument ID:

HP5973G

Prep Method:

5030B

Prep Batch:

Lab File ID:

G4503.D

Dilution:

1.0

N/A

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 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 (M!BK)	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
,	· • 	., =

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/M	8260B Volatile Organic Compo	unds (GC/MS
--	------------------------------	-------------

Analysis Method: Prep Method:

8260B 5030B

Analysis Batch: Prep Batch:

480-24985 N/A

Instrument ID: Lab File ID:

HP5973G G4503.D

Dilution:

1.0

07/26/2011 1852

Analysis Date: Prep Date:

07/26/2011 1852

5 mL

Initia! Weight/Volume: Final Weight/Volume:

5 mL

Analyte Vinyl chloride Result (ug/L) ND

Qualifier

RL 1.0

Xylenes, Total ND

Qualifier

2.0

Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr)

121 102 110

%Rec

66 - 137 73 - 120 71 - 126

Acceptance Limits

Job Number: 480-7633-1

Client: Brown and Caldwell

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 Voiatile Organic Compounds (GC/MS)

Analysis Method: Prep Method:

8260B 5030B Analysis Batch:

480-24985

0

Instrument ID:

HP5973G

Dilution:

Prep Batch:

N/A

Lab File ID:

1.0

Tentatively Identified Compounds

Initial Weight/Volume:

G4503.D

Analysis Date:

07/26/2011 1852

Analyte

Final Weight/Volume:

5 mL 5 mL

Prep Date:

Cas Number

07/26/2011 1852

Number TiC's Found:

RT

Est. Result (ug/L)

Qualifier

Tentatively Identified Compound

None

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

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:

8260B 5030B Analysis Batch:

480-24985

Instrument ID:

HP5973G

Prep Method:

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

1,1,1-Trichloroethane ND 1.0 1,1,2,2-Tertachloroethane ND 1.0 1,1,2-Trichloroethane ND 1.0 1,1-Dichloroethane ND 1.0 1,1-Dichloroethane ND 1.0 1,1-Dichloroethane ND 1.0 1,2-Dichrome-3-Chioropropane ND 1.0 1,2-Dichrome-3-Chioropropane ND 1.0 1,2-Dichloroethane ND 1.0 1,2-Dichloropropane ND 1.0 1,3-Dichloropropane ND 1.	Analyte	Result (ug/L)	Qualifier	RL
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-Dichloroethane ND 1.0 1,2-Dichlorobenzene ND 1.0 1,2-Dichloroethane ND 1.0 1,2-Dichloroethane ND 1.0 1,2-Dichloropropane ND 1.0 1,2-Dichloropropane ND 1.0 1,3-Dichloropropane ND 1.0 1,3-Dichlorobenzene ND 1.0 1,3-Dichlorobenzene ND 1.0 1,4-Dichlorobenzene ND 1.0 2-Butanone (MEK) ND 1.0 2-Hexanone ND 1.0 4-Methyl-2-pentanone (MIBK) ND 5.0 4-Methyl-2-pentanone (MIBK) ND 5.0 Acatone ND 1.0 Benzane ND 1.0 Bromoform ND 1.0 Bromoform ND 1.0 Bromoform<	1,1,1-Trichloroethane	ND		1.0
1,1,2-Trichloroethane ND 1.0 1,1-Dichloroethane ND 1.0 1,1-Dichloroethane ND 1.0 1,2-Trichlorobenzene ND 1.0 1,2-Dibromoethane ND 1.0 1,2-Dichlorobenzene ND 1.0 1,2-Dichloroethane ND 1.0 1,2-Dichloroethane ND 1.0 1,2-Dichloropopane ND 1.0 1,2-Dichloropopane ND 1.0 1,2-Dichloropopane ND 1.0 1,2-Dichloropopane ND 1.0 1,3-Dichlorobenzene ND 1.0 2-Butanone (MEK) ND 1.0 2-Hexanone ND 1.0 4-Methyl-2-pentanone (MIBK) ND 5.0 4-Methyl-2-pentanone (MIBK) ND 5.0 4-Methyl-2-pentanone (MIBK) ND 1.0 Bernzene ND 1.0 Bromodichloromethane ND 1.0 Bromodichloromethane ND 1.0	1,1,2,2-Tetrachloroethane	ND		1.0
1,1-Dichloroethane ND 1,0 1,1-Dichloroethane ND 1.0 1,2-Dichlorobenzene ND 1.0 1,2-Dichoro-3-Chloropropane ND 1.0 1,2-Dichlorobenzene ND 1.0 1,2-Dichlorobenzene ND 1.0 1,2-Dichlorobenzene ND 1.0 1,3-Dichlorobenzene ND 1.0 1,3-Dichlorobenzene ND 1.0 1,4-Dichlorobenzene ND 1.0 2-Butanone (MEK) ND 1.0 2-Hexanone ND 5.0 4-Methyl-2-pentanone (MBK) ND 5.0 4-Methyl-2-pentanone (MBK) ND 5.0 4-Methyl-2-pentanone (MBK) ND 5.0 Acetone ND 1.0 Bernzene ND 1.0 Bromoform ND 1.0 Bromoform ND 1.0 Bromoform ND 1.0 Carbon disulfde ND 1.0 Chioroebrane <t< td=""><td>1,1,2-Trichloro-1,2,2-trifluoroethane</td><td>NÐ</td><td></td><td>1.0</td></t<>	1,1,2-Trichloro-1,2,2-trifluoroethane	NÐ		1.0
1,1-loichloroethene ND 1,0 1,2-4-Trichlorobenzene ND 1,0 1,2-Dibromo-3-Chloropropane ND 1,0 1,2-Dichlorobenzene ND 1,0 1,2-Dichlorobenzene ND 1,0 1,2-Dichloropropane ND 1,0 1,2-Dichlorobenzene ND 1,0 1,3-Dichlorobenzene ND 1,0 1,4-Dichlorobenzene ND 1,0 1,4-Dichlorobenzene ND 1,0 2-Hexanone (MEK) ND 1,0 2-Hexanone (MEK) ND 5,0 4-Methyl-2-pentanone (MIBK) ND 5,0 4-Methyl-2-pentanone (MIBK) ND 1,0 Benzene ND 1,0 Bromodichloromethane ND 1,0 Bromodichloromethane ND 1,0 Bromodichloromethane ND 1,0 Chlorobertane ND 1,0 Chlorobertane ND 1,0 Chlorobertane ND 1,0	1,1,2-Trichloroethane	ND		1.0
1,2,4-Trichlorobenzene ND 1,0 1,2-Dibromo-3-Chloropropane ND 1,0 1,2-Dichlorobenzene ND 1,0 1,2-Dichlorobenzene ND 1,0 1,2-Dichlorobenzene ND 1,0 1,3-Dichlorobenzene ND 1,0 1,4-Dichlorobenzene ND 1,0 1,4-Dichlorobenzene ND 1,0 2-Butanone (MEK) ND 10 2-Hexanone ND 10 4-Methyl-2-pentanone (MIBK) ND 50 4-Methyl-2-pentanone (MIBK) ND 10 Benzene ND 10 Benzene ND 1,0 Bromodichloromethane ND 1,0 Bromodichloromethane ND 1,0 Bromodichloromethane ND 1,0 Carbon tetrachloride ND 1,0 Carbon tetrachloride ND 1,0 Chloroethane ND 1,0 Chloroethane ND 1,0 Chloroeth	1,1-Dichloroethane	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-Dichloroperbane ND 1,0 1,2-Dichlorobenzene ND 1,0 1,3-Dichlorobenzene ND 1,0 1,4-Dichlorobenzene ND 1,0 2-Butanone (MEK) ND 1,0 2-Hexanone ND 1,0 2-Hexanone (MIBK) ND 5,0 4-Methyl-2-pentanone (MIBK) ND 5,0 4-Methyl-2-pentanone (MIBK) ND 1,0 Bernzene ND 1,0 Bernzene ND 1,0 Bromodichloromethane ND 1,0 Bromodichloromethane ND 1,0 Carbon disulfide ND 1,0 Carbon tetrachloride ND 1,0 Chloroderme ND 1,0 Chloroderme ND 1,0 Chloroderme ND 1,0 Chloroderbane	1,1-Dichloroethene	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-Dichloropropane ND 1.0 1,3-Dichlorobenzene ND 1.0 1,4-Dichlorobenzene ND 1.0 1,4-Dichlorobenzene ND 1.0 2-Hasanone (MEK) ND 1.0 2-Hasanone (MEK) ND 5.0 4-Methyl-2-pentanone (MIBK) ND 5.0 4-Methyl-2-pentanone (MIBK) ND 5.0 4-Methyl-2-pentanone (MIBK) ND 5.0 4-Methyl-2-pentanone (MIBK) ND 1.0 Bernzene ND 1.0 Bromodichloromethane (MIBK) ND 1.0 Bromodichloromethane ND 1.0 Bromodichloromethane ND 1.0 Carbon disulfide ND 1.0 Chloroderme ND 1.0 Chloroderme ND 1.0 Chloroderme ND 1.0	1,2,4-Trichlorobenzene	ND		1.0
1,2-Dichlorobenzene ND 1.0 1,2-Dichloropethane 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 Bernzene ND 1.0 Bromodichloromethane ND 1.0 Bromoform ND 1.0 Bromoform ND 1.0 Bromoforme ND 1.0 Bromofelhane ND 1.0 Carbon disulfide ND 1.0 Carbon disulfide ND 1.0 Chlorobenzene ND 1.0 Chlorobenzene ND 1.0 Chloroberbane ND 1.0 Chloroberbane ND 1.0 Chloroberbane ND 1.0		ND		1.0
1,2-Dichlorobenzene ND 1.0 1,2-Dichloropropane ND 1.0 1,3-Dichlorobenzene ND 1.0 1,4-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 10 Acetone ND 1.0 Bromodichloromethane ND 1.0 Bromodichloromethane ND 1.0 Bromodichloromethane ND 1.0 Bromodichloromethane ND 1.0 Carbon disulfide ND 1.0 Carbon disulfide ND 1.0 Chlorobenzene ND 1.0 Chlorochane ND 1.0 Chlorochane ND 1.0 Chlorochane ND 1.0 Chlorochane ND 1.0 Chlorochromethane ND 1.0 ND 1.0 <tr< td=""><td>1,2-Dibromoethane</td><td>ND</td><td></td><td>1.0</td></tr<>	1,2-Dibromoethane	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 4-Methyl-2-pentanone (MIBK) ND 10 Benzene ND 10 Benzene ND 1.0 Bromoform ND 1.0 Bromoform ND 1.0 Bromoform ND 1.0 Carbon disulfide ND 1.0 Carbon tetrachloride ND 1.0 Chioroethane ND 1.0 cis-1,3-Dichloroethene ND 1.0 cis-1,3-Dichloropropene ND 1.0	•	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 Acetone ND 10 Benzene ND 10 Bernadichloromethane ND 1.0 Bromodichloromethane ND 1.0 Bromoform ND 1.0 Bromomormathane ND 1.0 Bromomormathane ND 1.0 Carbon disulfide ND 1.0 Carbon disulfide ND 1.0 Chloroperane ND 1.0 Chloroperane ND 1.0 Chloropethane ND 1.0 Chloropethane ND 1.0 Chloropethane ND 1.0 cis-1,3-Dichloropropene ND 1.0 cis-1,3-Dichloropropene ND 1.0 cis-1,3-Dichloropropene ND 1.0	•			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 10 Bromodichloromethane ND 1.0 Bromodichloromethane ND 1.0 Bromoform ND 1.0 Bromoform ND 1.0 Bromofitane ND 1.0 Carbon tetrachloride ND 1.0 Chlorobenzene ND 1.0 Chlorobenzene ND 1.0 Chlorobenzene ND 1.0 Chloroform ND 1.0 Chloroform ND 1.0 Chloropethane ND 1.0 cis-1,2-Dichloropthane ND 1.0 cis-1,2-Dichloropthane ND 1.0 Dibromochloromethane ND 1.0	•	ND		1.0
1,4-Dichlorobenzene ND 1.0 2-Butanone (MEK) ND 5.0 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 disulfide ND 1.0 Chlorobenzene ND 1.0 Chlorobenzene ND 1.0 Chloroethane ND 1.0 Chloroethane <td>• •</td> <td>ND</td> <td></td> <td>1.0</td>	• •	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 disulfde ND 1.0 Carbon tetrachloride ND 1.0 Chlorobenzene ND 1.0 Chlorobenzene ND 1.0 Chloroform ND 1.0 Chloroformethane ND 1.0 Chloromethane ND 1.0 cis-1,2-Dichloropthene ND 1.0 cis-1,3-Dichloroptopene ND 1.0 Cyclohexane ND 1.0 Dibromochloromethane ND 1.0 Dichlorodifluoromethane ND 1.0 Ethylbenzene ND 1.0 Klbylenzene ND 1.0		ND		1.0
2-Hexanone ND 5.0 4-Methyl-2-pentanone (MIBK) ND 5.0 Acatone ND 10 Benzene ND 1.0 Bromofichormethane ND 1.0 Bromoform ND 1.0 Bromoform ND 1.0 Bromomethane ND 1.0 Carbon disulfide ND 1.0 Carbon tetrachloride ND 1.0 Chloroenzene ND 1.0 Chloroethane ND 1.0 Chloroethane ND 1.0 Chloroform ND 1.0 Chloroethane ND 1.0 Cis-1,3-Dichloropropene ND 1.0 Cyclohexane ND 1.0 Dichloroethene	•			
4-Methyl-2-pentanone (MIBK) ND 10 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 Chlorobenzene ND 1.0 Chlorodiane ND 1.0 Chlorodethane ND 1.0 Chlorodethane ND 1.0 Chlorodethane ND 1.0 Cyclohexane ND 1.0 Cyclohexane ND 1.0 Dichlorodifluoromethane ND 1.0 Dichlorodifluoromethane ND 1.0 Ethylbenzene ND 1.0 Isopropylbenzene ND 1.0 Methyl tert-bulyl ether ND 1.0 Methyl tert-bulyl ether ND 1.0	, ,			5.0
Acetone ND 10 Benzene ND 1.0 Bromodichloromethane ND 1.0 Bromodichloromethane ND 1.0 Bromomethane ND 1.0 Carbon disulfide ND 1.0 Carbon detrachloride ND 1.0 Chlorobenzene ND 1.0 Chlorobethane ND 1.0 Chloroform ND 1.0 Chlorodethane ND 1.0 cis-1,3-Dichloroptropene ND 1.0 Cyclohexane ND 1.0 Dibromochloromethane ND 1.0 Dibromochloromethane ND 1.0 Ethylbenzene ND 1.0 Ethylbenzene ND 1.0 Methyl acetate ND 1.0 Meth				5.0
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 Chlorobenzene ND 1.0 Chlorodthane ND 1.0 Chloroform ND 1.0 Chlorodthane ND 1.0 Chlorodthane ND 1.0 cis-1,2-Dichloropropene ND 1.0 Cyclohexane ND 1.0 Cyclohexane ND 1.0 Dibromochloromethane ND 1.0 Ethylbenzene ND 1.0 Isopropylbenzene ND 1.0 Methyl acetate ND 1.0 Methyl et-butyl ether ND 1.0 Methyl et-butyl ether ND 1.0 Methyl et-butyl ether ND 1.0				10
Bromoficement Bromoform 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 Chloroform ND 1.0 Chloroform ND 1.0 Chloromethane ND 1.0 Chloromethane ND 1.0 Cis-1,2-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 cetate ND 1.0 Methyl cetate ND 1.0 Methyl sertene ND 1.0 Methyl cetate ND 1.0 Methyl cetate ND 1.0 Methyl sertene ND 1.0				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-Dichloroptopene ND 1.0 Cyclohexane ND 1.0 Oyclohexane ND 1.0 Dichlorodifluoromethane ND 1.0 Ethylbenzene ND 1.0 Isopropylbenzene ND 1.0 Methyl acetate ND 1.0 Methyl sert-butyl ether ND 1.0 Methyl sert-butyl ether ND 1.0 Methylene Chloride ND 1.0 Styrene ND 1.0 Tetrachloroethene ND 1.0 Trans-1,2-Dichloroethene ND 1.0 trans-1,3-Dichloroptopene ND				
Bromomethane ND 1.0 Carbon disulfide ND 1.0 Carbon tetrachloride ND 1.0 Chlorobenzene ND 1.0 Chlorobethane 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 Ethylbenzene ND 1.0 Isopropylbenzene ND 1.0 Isopropylbenzene ND 1.0 Methyl acetate ND 1.0 Methyl tert-butyl ether ND 1.0 Methylene Chloride ND 1.0 Methylene Chloride ND 1.0 Styrene ND 1.0 Tetrachloroethene ND 1.0 trans-1,2-Dichloropropene ND 1.0 trans-1,3-Dichloropropene ND<				
Carbon disulfide ND 1.0 Carbon tetrachloride ND 1.0 Chlorobenzene ND 1.0 Chlorobentane 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 Isopropylbenzene ND 1.0 Methyl acetate ND 1.0 Methyl tert-butyl ether ND 1.0 Methylene Chloride ND 1.0 Methylene Chloride ND 1.0 Styrene ND 1.0 Tetrachloroethene ND 1.0 trans-1,2-Dichloroethene ND 1.0 trans-1,3-Dichloropropene				
Carbon letrachloride 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 Ethylbenzene ND 1.0 Isopropylbenzene ND 1.0 Methyl acetate ND 1.0 Methyl sert-butyl ether ND 1.0 Methylcyclohexane ND 1.0 Methylcyclohexane ND 1.0 Methylene Chloride ND 1.0 Styrene ND 1.0 Tetrachloroethene ND 1.0 Trans-1,2-Dichloroethene ND 1.0 trans-1,3-Dichloropropene <t< td=""><td></td><td></td><td></td><td></td></t<>				
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-Dichloropropopene ND 1.0 Trichloroethene ND 1.0 Trichloroethene ND				
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 Methyler-Chloride 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				
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 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 Trichloroethene 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 Isopropylbenzene ND 1.0 Methyl acetate ND 1.0 Methyl tert-butyl ether ND 1.0 Methylere Chloride ND 1.0 Methylere 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				
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 Methylcylohexane 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				
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				
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	,			
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	• •			
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	•			
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				
Isopropylbenzene				
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	•			
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	• • •			
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	· · · · · · · · · · · · · · · · · · ·			
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				
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 Trichloroethene 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	•			127 -
Toluene ND 1.0 trans-1,2-Dichloroethene ND 1.0 trans-1,3-Dichloropropene ND 1.0 Trichloroethene ND 1.0	•			
trans-1,2-Dichloroethene ND 1.0 trans-1,3-Dichloropropene ND 1.0 Trichloroethene ND 1.0				
trans-1,3-Dichloropropene ND 1.0 Trichloroethene ND 1.0				
Trichloroethene ND 1.0	•			
	· · · · · · · · · · · · · · · · · · ·			
Trichlorofluoromethane ND 1.0	Trichloroethene			
	Trichlorofluoromethane	ND		1.0

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

82C0B	Volatile	Organic	Compounds	(GC/MS)
026UB	voiatile	Organic	Compounds	(GC/WS)

Analysis Method:

8260B 5030B Analysis Batch:

480-24985

Instrument ID:

HP5973G

Prep Method:

1.0

Prep Batch:

Lab File ID:

G4504.D

Dilution:

N/A

Initial Weight/Volume:

5 mL

Analysis Date:

07/26/2011 1915

Final Weight/Volume:

5 mL

Prep Date:

07/26/2011 1915

Qualifier

Qualifier

RL

Analyte Vinyl chloride Xylenes, Total Result (ug/L) ND ND

1.0 2.0

Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr)

66 - 137 73 - 120 71 - 126

Acceptance Limits

Client: Brown and Caldwell

Job Number: 480-7633-1

Cilent Sample ID:

GWP-7-58-60

Lab Sample ID:

480-7684-6

Client Matrix:

Water

Date Sampled: 07/25/2011 1125

HP5973G

G4504.D

5 mL

5 mL

Date Received: 07/26/2011 1000

8260B Volatile Organic Compounds (GC/MS)

N/A

480-24985

Analysis Method: Prep Method:

8260B 5030B

Analysis Date: Prep Date:

Cas Number

Dilution:

1.0

07/26/2011 1915

07/26/2011 1915

Tentatively identified Compounds

Analyte

Analysis Batch:

Prep Batch:

Number TIC's Found:

RT

0

Est. Result (ug/L)

Qualifier

Tentatively Identified Compound

None

Initial Weight/Volume:

Final Weight/Volume:

Instrument ID:

Lab File ID:

Job Number: 480-7633-1

Ciient 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

8260B Volatile Organic Compounds (GC/MS	8260B	Volatile	Organic	Compounds	(GC/MS)
---	-------	----------	---------	-----------	---------

Analysis Method:

8260B

Analysis Batch:

480-24985

Instrument ID:

HP5973G

Prep Method:

5030B

Prep Batch:

Lab File ID:

G4505.D

Dilution:

1.0

N/A

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-Trichioro-1,2,2-trifluoroethane	ND		1.0
1,1,2-Trichloroethane	ND		1.0
1,1-Dichloroethane	ND		1.0
1,1-Dichioroethene	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 tetrachioride	ND		1.0
Chlorobenzene	ND		1.0
Chloroethane	ND		1.0
Chioroform	ND		1.0
Chioromethane	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

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID:

FB-072511

Lab Sample ID:

Analysis Method:

Prep Method: Dilution:

Analysis Date:

Prep Date:

Analyte Vinyl chloride Xylenes, Totai 480-7684-7FB

Client Matrix:

Water

Date Sampled: 07/25/2011 1200

Date Received: 07/26/2011 1000

	8260B Voiatile Orga	nic Compoun	ds (GC/MS)	
8260B 5030B 1.0 07/26/2011 1938 07/26/2011 1938	Analysis Batch: Prep Batch:	480-24985 N/A	Instrument ID: Lab File ID: Initial Weight/Volume: Final Weight/Volume:	HP5973G G4505.D 5 mL 5 mL
	Result (u	g/L)	Qualifier	RL
	ND			1.0
	ND			2.0

Job Number: 480-7633-1

Cilent Sample ID:

Client: Brown and Caldwell

FB-072511

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 5030B Analysis Batch:

480-24985

Instrument ID:

HP5973G

Prep Method:

Prep Batch:

Lab File ID:

Dilution:

1.0

Tentatively Identified Compounds

N/A

Initial Weight/Volume:

G4505.D

Analysis Date:

07/26/2011 1938

Final Weight/Volume:

5 mL 5 mL

Prep Date:

Cas Number

07/26/2011 1938

Number TIC's Found:

RT

Est. Result (ug/L)

Qualifier

Analyte Tentatively Identified Compound

None

Job Number: 480-7633-1

Cilent 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 Voiatile	Organic	Compounds	(GC/MS)
OZBUB VOIZUIE	Organic	Compounds	(GC/NG)

Analysis Method: Prep Method:

8260B 5030B Analysis Batch:

480-24985

Instrument ID:

HP5973G

Dilution:

Prep Batch:

G4506.D

RL

1.0

1.0

1.0

Initial Weight/Volume:

Analysis Date:

07/26/2011 2001

Prep Date:

07/26/2011 2001

4	Our Hear	

alifier	

5 mL

_	ch	Date.	

Analyte

Result (ug/L)	Qualifier
ND	

ND ND ND ND ND

ND

ND

ND

ND

ND ND

ND

ND ND

ND

ND

ND

ND

ND

ND

ND

ND

ND

ND

ND ND

ND

ND

ND

ND ND

ND

ND

ND

ND

ND

ND ND

ND

ND

ND

ND

ND

ND

ND

1,1,1-Trichloroethane	
1,1,2,2-Tetrachloroethane	
1,1,2-Trichloro-1,2,2-trifluoroethane	
1,1,2-Trichloroethane	
1 1-Dichioroethane	

1,1-Dichloroethene 1,2,4-Trichlorobenzene 1,2-Dibromo-3-Chloropropane

1,2-Dibromoethane 1,2-Dichlorobenzene

1,2-Dichloroethane 1,2-Dichloropropane

1,3-Dichlorobenzene 1,4-Dichlorobenzene 2-Butanone (MEK) 2-Hexanone

4-Methyl-2-pentanone (MIBK) Acetone Benzene

Bromodichloromethane Bromoform Bromomethane Carbon disulfide

Carbon tetrachloride Chlorobenzene Chloroethane Chioroform Chloromethane

cis-1,3-Dichloropropene Cyclohexane Dibromochloromethane Dichlorodifluoromethane Ethylbenzene

Isopropylbenzene

Methylcyclohexane

Methylene Chloride

Methyl acetate Methyl tert-butyl ether

cis-1,2-Dichloroethene

Styrene Tetrachloroethene Toluene trans-1,2-Dichloroethene

Trichtorofluoromethane

trans-1,3-Dichloropropene

N/A

Lab File ID:

5 mL

Final Weight/Volume:

1.0	
1.0	
1.0	
1.0	
1.0	
1.0	
1.0	
1.0	
1.0	
1.0	
1.0	
1.0	
1.0	
10	
5.0	
5.0	
10	
1.0	
1.0	
1.0	
1.0	
1.0	
1.0	
1.0	
1.0	
1.0	
1.0	
1.0	
1.0	
1.0	
1.0	
1.0	
1.0	
1.0	
1.0	
1.0	
1.0	
1.0	
1.0	
1.0	
1.0	
1.0	
1.0	
1.0	
1.0	

Trichloroethene

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

Analysis Method: Prep Method:

8260B

Analysis Batch:

480-24985

Instrument iD:

HP5973G

Dilution:

5030B 1.0

Prep Batch:

N/A

Lab File ID:

G4506.D

Analysis Date:

07/26/2011 2001

Initial Weight/Volume: Final Weight/Volume:

5 mL

Prep Date:

07/26/2011 2001

5 mL

Analyte

Result (ug/L)

Qualifier

RL

Vinyi chloride Xylenes, Total

ND ND

Qualifier

1.0 2.0

Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr)

66 - 137 73 - 120 71 - 126

Acceptance Limits

Job Number: 480-7633-1

Client: Brown and Caldwell

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 5030B

Prep Method: Dilution:

Cas Number

Analysis Date: Prep Date:

1.0

Analyte

07/26/2011 2001

07/26/2011 2001

Analysis Batch: Prep Batch:

480-24985

0

N/A

instrument iD:

HP5973G

Lab File ID:

G4506.D

Initial Weight/Volume:

5 mL

Final Weight/Volume:

5 mL

Tentatively Identified Compounds

Number TiC's Found:

RT

Est. Result (ug/L)

Qualifier

Tentatively Identified Compound

None

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			
Anaiyte		Result (u	ıa/L)	Qualifier	RL S			
2,4,5-Trichlorophen	ol	ND ND	·5· -/		5.0			
2,4,6-Trichlorophen		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-Chloronaphthalen	e	ND			5.0			
2-Chlorophenol	•	ND			5.0			
2-Methylnaphthalen	e =	ND ND			5.0 5.0			
2-Methylphenoi	~	ND			5.0 5.0			
2-Nitroaniline		ND			9.9			
2-Nitrophenol		ND			5.0			
3,3'-Dichtorobenzidi	ne	ND			5.0			
3-Nitroaniline	110	ND			9.9			
4,6-Dinitro-2-methyl	nhenol	ND			9.9			
4-Bromophenyl phe	•	ND			9.9 5.0			
4-Chloro-3-methylpl	•	ND						
4-Chloroaniline	ICHO	ND			5.0			
4-Chiorophenyl phe	nyl ether	ND ND			5.0			
4-Methylphenol	nyi ether	ND ND			5.0 9.9			
4-Nitroaniline		ND ND						
4-Nitrophenol		ND ND			9.9			
Acenaphthene					9.9			
Acenaphthylene		ND ND			5.0			
Acetophenone		ND ND			5.0			
Anthracene		ND ND			5.0			
Arminacene Atrazine					5.0			
		ND			5.0			
Benzaldehyde		ND			5.0			
Benzo(a)anthracene	,	ND			5.0			
Benzo(a)pyrene		ND			5,0			
Benzo(b)fluoranther		ND			5.0			
Benzo(g,h,i)perylend Benzo(k)fluoranther		ND ND			5.0			
	e e	ND			5,0			
Biphenyl	ul\ athae	ND			5.0			
ois (2-chloroisoprop		ND			5.0			
Bis(2-chloroethoxy)r		ND ND			5.0			
Bis(2-chloroethyl)eth		ND			5.0			
Bis(2-ethylhexyl) phi		ND			5.0			
Butyl benzyl phthala	le	ND			5.0			
Caprolactam		ND			5.0			
Carbazole		ND			5.0			
Chrysene		ND			5.0			
Dibenz(a,h)anthrace	ne	ND			5.0			
Dibenzofuran		ND			9.9			
Diethyl phthalate		ND			5.0			

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID:

FB-072211

Lab Sample ID:

p-Terphenyl-d14

480-7633-6

Date Sampled: 07/22/2011 0720

24 - 136

Client Matrix:	Water				Date	Received: 07/23/2011
		8270C Semivolatile O	rganic Compo	unds (GC/MS)		
Analysis Method:	8270C	Analysis Batch:	480-25325	Instrumer	nt ID:	HP5973V
Prep Method:	3510C	Prep Batch:	480-25216	Lab File I	D:	V3308.D
Dilution:	1.0	·		Initial We	ight/Volume:	1010 mL
Analysis Date:	07/28/2011 1826				ght/Volume:	1 mL
Prep Date:	07/27/2011 1441			Injection \	-	1 uL
Analyte		Result (u	ıg/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
Hexachlorobenzen	e	ND				5.0
Hexachlorobutadie	ne	ND				5.0
Hexachlorocyclope	ntadiene	ND				5.0
Hexachloroethane		ND				5.0
Indeno(1,2,3-cd)py	rene	ND				5.0
Isophorone		ND				5.0
Naphthalene		ND				5.0
Nitrobenzene		ND				5.0
N-Nitrosodi-n-propy	ylamine	ND				5.0
N-Nitrosodiphenyla	mine	ND				5.0
Pentachlorophenol		ND				9.9
Phenanthrene		ND				5.0
Phenol		ND				5.0
Pyrene		ND				5.0
Surrogate		%Rec		Qualifier	Acceptan	ce Limits
2,4,6-Tribromopher	ion	87			52 - 132	
2-Fluorobiphenyl		93			48 - 120	
2-Fluorophenol		49			20 - 120	
Nitrobenzene-d5		89			46 - 120	
Phenol-d5		29			16 - 120	

86

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:

Lab File ID:

V3308.D

Dilution:

Prep Date:

Cas Number

1.0

480-25216

0

Initial Weight/Volume:

Analysis Date:

07/28/2011 1826

Analyte

Final Weight/Volume:

1010 mL

07/27/2011 1441

Injection Volume:

1 mL 1 uL

Tentatively Identified Compounds

Number TIC's Found:

RT

Est. Result (ug/L)

Qualifier

Tentatively Identified Compound

None

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 18	850			Final Weight/Volume:	1 mL		
Prep Date:	07/27/2011 14				Injection Volume:	1 uL		
Tep Date.	0772772011 1-				injection volume.	, dL		
Analyte			Result (u	g/L)	Qualifier	RL		
2,4,5-Trichlorophen	ol		ND			5.3		
2,4,6-Trichlorophen	ol		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-Chioronaphthalen	ie		ND			5.3		
2-Chlorophenol			ND			5.3		
2-Methylnaphthalen	e		ND			5.3		
2-Methylphenol			ND			5.3		
2-Nitroaniline			ND			11		
2-Nitrophenol			ND			5.3		
3,3'-Dichlorobenzidi	ine		ND			5.3		
3-Nitroaniline			ND			11		
4,6-Dinitro-2-methyl	Inhenol		ND			11		
4-Bromophenyl phe	•		ND			5.3		
4-Chloro-3-methylp			. ND			5.3		
4-Chloroaniline	HEHOI		ND			5.3		
						5.3		
4-Chlorophenyl phe	nyi etner		ND			11		
4-Methylphenol			ND					
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)anthracen	9		ND			5.3		
Benzo(a)pyrene			ND			5.3		
Benzo(b)fluoranthe	ne		ND			5.3		
Benzo(g,h,i)peryien	е		ND			5.3		
Benzo(k)fluoranther	ne		ND			5.3		
Biphenyl			ND			5.3		
ois (2-chloroisoprop	yl) ether		ND			5.3		
Bis(2-chloroethoxy)			ND			5.3		
Bis(2-chloroethyl)et			ND			5,3		
Bis(2-ethylhexyl) ph			6.0			5.3		
Butyl benzyl phthala			ND			5.3		
Caprolactam			ND			5.3		
Carbazole			ND			5.3		
Chrysene			ND			5.3		
•	ane		ND			5.3		
Dibenz(a,h)anthrac	51 I C		ND			11		
Dibenzofuran								

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

Cheffit Matrix.	vvalci				
		8270C Semivolatile Or	ganic Compou	nds (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	· 56		Initial Weight/Volum	e: 950 mL
nalysis Date:	07/28/2011 1850			Final Weight/Volume	e: 1 mL
Prep Date:	07/27/2011 1441			Injection Volume:	1 uL
nalyte		Result (u	g/L)	Qualifier	RL
imethyl phthalate		ND			5.3
i-n-butyl phthalate)	ND			5.3
i-n-octyl phthalate)	ND			5.3
luoranthene		ND			5.3
luorene		ND			5.3
lexachlorobenzene	9	ND			5.3
exachlorobutadier	ne	ND			5.3
lexachlorocyclopei	ntadiene	ND			5.3
lexachloroethane		ND			5.3
ndeno(1,2,3-cd)pyr	rene	ND			5.3
sophorone		ND			5.3
laphthalene		ND			5.3
litrobenzene		ND			5.3
I-Nitrosodi-n-propy	/lamine	ND			5.3
l-Nitrosodiphenyla	mine	ND			5.3
entachiorophenol		ND			11
henanthrene		ND			5.3
henol		ND			5.3
yrene		ND			5.3
Surrogate		%Rec			ptance Limits
,4,6-Tribromopher	nol	93		52 -	
-Fluorobiphenyl		84		48 -	
-Fluorophenol		50		20 -	
litrobenzene-d5		81		46 -	-
henol-d5		30		16 -	
-Terphenyl-d14		87		24 -	136

Job Number: 480-7633-1

Client: Brown and Caldwell

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 3510C Analysis Batch:

480-25325

Instrument ID:

HP5973V

Prep Method:

Lab File ID:

Dilution:

1.0

Prep Batch:

480-25216

V3309.D

Prep Date:

Initial Weight/Volume:

950 mL

Analysis Date:

07/28/2011 1850 07/27/2011 1441 Final Weight/Volume:

1 mL

Injection Volume:

1 uL

Tentatively Identified Compounds

Number TIC's Found:

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

Job Number: 480-7633-1

Client Sample ID:

DUP-072211

Lab Sample ID:

480-7633-8

Client Matrix:

Water

ater

Date Sampled: 07/22/2011 0000

Date Received: 07/23/2011 0900

Analysis Method: Prep Method: Dilution: Analysis Date: Prep Date:	8270C 3510C 1.0 07/28/2011 1914 07/27/2011 1441	Analysis Batch: Prep Batch:	480-25325 480-25216	Instrument ID: Lab File ID: Initial Weight/Volume: Final Weight/Volume: Injection Volume:	HP5973V V3310.D 820 mL 1 mL 1 uL
Analyte		Result (u	g/L)	Qualifier	RL
2,4,5-Trichloropher	nol	ND			6.1
2,4,6-Trichloropher	nol	ND			6.1
2,4-Dichlorophenol		ND			6.1
2,4-Dimethylphenol	1	ND			6.1
2,4-Dinitrophenol		ND			12
2,4-Dinitrotoluene		ND			6.1
2,6-Dinitrotoluene		ND			6.1
2-Chloronaphthaler	ne	ND			6.1
2-Chlorophenol		ND			6.1
2-Methylnaphthaler	ne .	ND			6.1
2-Methylphenol		ND			6.1
2-Nitroaniline		ND			12
2-Nitrophenol		ND			6.1
3,3'-Dichlorobenzid	ine	ND			6.1
3-Nitroaniline		ND			12
4,6-Dinitro-2-methy	Iphenol	ND			12
4-Bromophenyl phe	enyl ether	ND			6.1
4-Chloro-3-methylp	henol	ND			6.1
4-Chloroaniline		ND			6.1
4-Chlorophenyl phe	enyl 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)anthracen	е	ND			6.1
Benzo(a)pyrene		ND			6.1
Benzo(b)fluoranther	ne	ND			6.1
Benzo(g,h,i)perylen	е	ND			6,1
Benzo(k)fluoranthe	ne	ND			6.1
Biphenyl		ND			6.1
bis (2-chloroisoprop		ND			6.1
Bis(2-chloroethoxy)		ND			6.1
Bis(2-chloroethyi)et		ND			6.1
Bis(2-ethylhexyl) ph		ND			6.1
Butyl benzyl phthala	ate	ND			6.1
Caprolactam		ND			6.1
Carbazole		ND			6.1
Chrysene		ND			6.1
Dibenz(a,h)anthrace	ene	ND			6,1
Dibenzofuran		ND			12
Diethyl phthalate		ND			6.1

8270C Semivolatile Organic Compounds (GC/MS)

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID:

DUP-072211

Lab Sample ID:

480-7633-8

Client Matrix:

Water

Date Sampled: 07/22/2011 0000 Date Received: 07/23/2011 0900

Onent watrz.	vvalci				Date Received. 07/23/2011 09
		8270C Semivolatile Or	ganic Compou	ınds (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/Volur	me: 820 mL
Analysis Date:	07/28/2011 1914			Final Weight/Volun	
Prep Date:	07/27/2011 1441			Injection Volume:	1 uL
Analyte		Result (u	g/L)	Qualifier	RL
Dimethyl phthalate		ND			6.1
Di-n-butyl phthalate	1	ND			6.1
Di-n-octyl phthalate		ND			6.1
Fluoranthene		ND			6.1
luorene		ND			6.1
lexachlorobenzene	•	ND			6.1
lexachlorobutadier	ne	ND			6.1
lexachlorocycloper	ntadiene	ND			6.1
lexachloroethane		ND			6.1
ndeno(1,2,3-cd)pyr	rene	ND			6.1
sophorone		ND			6.1
laphthalene		ND			6.1
Vitrobenzene		ND			6.1
N-Nitrosodi-n-propy	lamine	ND			6.1
N-Nitrosodiphenylar	mine	ND			6.1
Pentachlorophenol		ND			12
henanthrene		ND			6.1
Phenol		ND			6.1
yrene		ND			6.1
Surrogate		%Rec		Qualifier Acc	eptance Limits
2,4,6-Tribromophen	ol	99		52 -	132
-Fluorobiphenyi		91		48 -	120
-Fluorophenol	4	56		20 -	120
Nitrobenzene-d5		84		46 -	120
Phenol-d5		34		16 -	120
-Terphenyl-d14		98		24 -	136

Job Number: 480-7633-1

Client: Brown and Caldwell

Client Sample ID:

DUP-072211

Lab Sample ID:

480-7633-8

Client Matrix:

Water

Date Sampled: 07/22/2011 0000

Date Received: 07/23/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:

8270C 3510C Analysis Batch:

480-25325

Instrument ID:

HP5973V

Prep Method:

Dilution:

Prep Batch:

480-25216

Lab File ID:

Tentatively Identified Compounds

V3310.D

1.0

Initial Weight/Volume:

820 mL

Analysis Date:

07/28/2011 1914

Final Weight/Volume: Injection Volume:

1 mL 1 uL

Prep Date:

07/27/2011 1441

Number TIC's Found:

2

Cas Number

Analyte Unknown Unknown

13.86 16,40

RT

Est. Result (ug/L) 5.7 6.1

Qualifier ΤJ TJ

08/12/2011

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 Or			
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 (u	g/L)	Qualifier	RL
2,4,5-Trichlorophen	nol	ND			4.8
2,4,6-Trichlorophen	nol	ND			4.8
2,4-Dichlorophenol		ND			4.8
2,4-Dimethylphenol	1	ND			4.8
2,4-Dinitrophenol		ND U.	7	*	9.6
2,4-Dinitrotoluene		ND			4.8
2,6-Dinitrotoluene		ND			4.8
2-Chloronaphthaler	ne	ND U	7	*	4.8
2-Chlorophenol		ND			4.8
2-Methylnaphthaler	ne	ND U	3	*	4.8
2-Methyiphenol		ND			4.8
2-Nitroaniline		ND			9.6
2-Nitrophenol		ND			4.8
3,3'-Dichlorobenzid	line	ND		*	4.8
3-Nitroaniline		ND			9.6
4,6-Dinitro-2-methy	phenol	ND		*	9.6
4-Bromophenyl phe		ND			4.8
4-Chloro-3-methylp		ND			4.8
4-Chloroaniline		ND		•	4.8
4-Chlorophenyl phe	enyl 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)anthracen	е	ND		•	4.8
Benzo(a)pyrene		ND		•	4.8
Benzo(b)fluoranthe	ne	ND		*	4.8
Benzo(g,h,i)perylen		ND		•	4.8
Benzo(k)fluoranthe		ND			4.8
Biphenyl		ND			4.8
bis (2-chloroisoprop	oyl) ether	ND			4.8
Bis(2-chloroethoxy)		ND			4.8
Bis(2-chloroethyl)et		ND			4.8
Bis(2-ethylhexyl) ph		ND		*	4.8
Butyl benzyl phthala		ND		*	4.8
Caprolactam		ND Ú	7	*	4.8
Carbazole		ND		æ	4.8
Chrysene		ND			4.8
Director (a. 163 a. 40 a. 4		NO			4.0

4.8 9.6

4.8

ND

ND ND

Dibenz(a,h)anthracene

Dibenzofuran

Diethyl phthalate

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID:

GWP-7-8-10

Lab Sample ID:

480-7684-1

Client Matrix:

400-7004-1

Water

Date Sampled: 07/25/2011 0840

Date Received: 07/26/2011 1000

Cherit Matrix.	vvalei				Date	Neceived. 0772072011 10
		8270C Semivolatile O	ganic Compo	ınds (GC/MS)		
Analysis Method:	8270C	Analysis Batch:	480-25689	Instrume	ent ID:	HP5973X
Prep Method:	3510C	Prep Batch:	480-25521	Lab File	ID:	X6042.D
Dilution:	1.0	·		Initial W	eight/Volume:	1040 mL
nalysis Date:	07/30/2011 1445			Final We	eight/Volume:	1 mL
Prep Date:	07/29/2011 0817				Volume:	1 uL
\nalyte		Result (u	g/L)	Qualifier		RL
imethyl phthalate		ND				4.8
)i-n-butyl phthalate		ND				4.8
i-n-octyl phthalate		ND		*		4.8
luoranthene		ND				4.8
luorene		ND				4.8
lexachlorobenzene	•	ND				4.8
exachlorobutadier	ne	ND				4.8
lexachlorocycloper	ntadiene	ND				4.8
lexachloroethane		ND				4.8
ndeno(1,2,3-cd)pyr	rene	ND		*		4.8
sophorone		ND				4.8
laphthalene		ND				4.8
litrobenzene		ND				4.8
I-Nitrosodi-n-propy	lamine	ND				4.8
I-Nitrosodiphenylai	mine	ND				4.8
entachlorophenol		ND				9.6
henanthrene		ND				4.8
henol		ND **				4.8
yrene		ND				4.8
Surrogate		%Rec		Qualifier	Acceptan	ce Limits
,4,6-Tribromophen	nol	109			52 - 132	
-Fluorobiphenyl		70			48 - 120	
-Fluorophenol		36			20 - 120	
litrobenzene-d5		62			46 - 120	
henol-d5		27			16 - 120	
-Terphenyi-d14		94			24 - 136	

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 3510C Analysis Batch:

480-25689

Instrument ID:

HP5973X

Prep Method:

Lab File ID:

Dilution:

1.0

Prep Batch:

480-25521

X6042.D

Analysis Date:

Analyte Unknown Unknown Unknown Unknown Unknown Unknown Unknown Unknown Unknown

Unknown

Unknown

Unknown

14.31

14.85

15.05

15.99

Initial Weight/Volume:

1040 mL

Prep Date:

Cas Number

07/30/2011 1445 07/29/2011 0817

Final Weight/Volume: Injection Volume:

20

6.1

20

19

1 mL 1 uL

TJ

ΤJ

ΤJ

TJ

Tentatively Identified Compounds

Number TIC's Found:

12

RT	Est. Result (ug/L)	Qualifier
12.34	10	TJ
12.84	11	TJ
13.10	40	TJ
13.14	7.5	TJ
13.42	4.4	TJ
13.60	19	TJ
13.87	16	TJ
14.13	5.5	TJ

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

A	00700	Analysis Datet	400 05000	Instrument ID:	HP5973X
Analysis Method:	8270C	Analysis Batch:	480-25689 480-25521	Lab File ID:	X6043.D
Prep Method:	3510C	Prep Batch:	480-25521		
Dilution:	1.0			Initial Weight/Vo	
Analysis Date:	07/30/2011 1508			Final Weight/Vol	
Prep Date:	07/29/2011 0817			Injection Volume	e; I UL
Analyte		Result (u	g/L)	Qualifier	RL
2,4,5-Trichloropher	rol	ND			4.9
2,4,6-Trichloropher	nol	ND			4.9
2,4-Dichlorophenol		ND			4.9
2,4-Dimethylpheno	l	ND			4.9
2,4-Dinitrophenol		ND		*	9.7
2,4-Dinitrotoluene		ND			4.9
,6-Dinitrotoluene		ND			4.9
2-Chloronaphthale	ne	ND		*	4.9
2-Chlorophenol		ND			4.9
2-Methylnaphthale	ne	ND		*	4.9
2-Methylphenol		ND			4.9
2-Nitroaniline		ND			9.7
2-Nitrophenol		ND			4.9
3,3'-Dichlorobenzio	line	ND		*	4.9
3-Nitroaniline		ND		*	9.7
4,6-Dinitro-2-methy	• •	ND		*	9.7
4-Bromophenyl ph		ND			4.9
4-Chloro-3-methylp	phenol	ND			4.9
1-Chloroaniline		ND			4.9
4-Chlorophenyl ph	enyl ether	ND			4.9 9.7
1-Methylphenol		ND			9.7 9.7
4-Nitroaniline		ND			9.7 9.7
4-Nitrophenol		ND			9.7 4.9
Acenaphthene		ND ND			4.9
Acenaphthylene		ND ND			4.9
Acetophenone		ND ND			4.9
Anthracene		ND ND			4.9
Atrazine Repzeldebyde		ND			4.9
Benzaldehyde Benzo(a)anthracer	10	ND ND		*	4.9
Benzo(a)pyrene		ND		•	4.9
Benzo(b)fluoranthe	ene	ND		*	4.9
Benzo(g,h,i)perylei		ND		*	4.9
Benzo(k)fluoranthe		ND			4.9
Biphenyl	··· ·	ND			4.9
ois (2-chloroisopro	pvI) ether	ND			4.9
Bis(2-chloroethoxy		ND			4.9
Bis(2-chloroethyi)e		ND			4.9
Bis(2-ethylhexyl) p		ND		*	4.9
Butyl benzyl phtha		ND		* ₇	4.9
Caprolactam		ND		*	4.9
Carbazole		ND			4.9
Chrysene		ND			4.9
Dibenz(a,h)anthrad	cene	ND		*	4.9
Dibenzofuran		ND			9.7
Diethyl phthalate		ND			4.9

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

Olient Matrix.	VValei				Date	Received. 07/20/2011
10		8270C Semivolatile O	ganic Compo	unds (GC/M	S)	
Analysis Method:	8270C	Analysis Batch:	480-25689	łn:	strument ID:	HP5973X
Prep Method:	3510C	Prep Batch:	480-25521	La	ab File ID:	X6043.D
Dilution:	1.0	·		Ini	itial Weight/Volume:	1030 mL
Analysis Date:	07/30/2011 1508				nal Weight/Volume:	1 mL
Prep Date:	07/29/2011 0817				jection Volume:	1 uL
					journalino.	.
Analyte		Result (u	g/L)	Qualifier		RL
Dimethyl phthalate		ND				4.9
i-n-butyl phthalate		ND				4.9
i-n-octyl phthalate		ND		*		4.9
luoranthene		ND				4.9
luorene		ND				4.9
lexachlorobenzene)	ND				4.9
lexachlorobutadier	ne	ND				4.9
lexachlorocycloper	ntadiene	ND				4.9
lexachloroethane		ND				4.9
ndeno(1,2,3-cd)pyr	ene	ND		*		4.9
sophorone		ND				4.9
laphthalene		ND				4.9
litrobenzene		ND				4.9
I-Nitrosodi-n-propy	lamine	ND				4.9
I-Nitrosodiphenylar	mine	ND				4.9
Pentachlorophenol		ND				9.7
henanthrene		ND				4.9
Phenol		ND				4.9
yrene		ND				4.9
Surrogate		%Rec		Qualifier	Acceptar	nce Limits
,4,6-Tribromophen	ol	114			52 - 132	
-Fluorobiphenyl		86			48 - 120	
-Fluorophenol		44			20 - 120	
litrobenzene-d5		82			46 - 120	
henol-d5		31			16 - 120	
-Terphenyl-d14		108			24 - 136	

Job Number: 480-7633-1

Client Sample ID:

Client: Brown and Caldwell

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:

Tentatively Identified Compounds

Initial Weight/Volume:

1.0

Final Weight/Volume:

1030 mL

Analysis Date:

07/30/2011 1508

Injection Volume:

1 mL 1 uL

Prep Date:

07/29/2011 0817

Number TIC's Found:

14

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

Job Number: 480-7633-1

Client: Brown and Caldwell

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

Analysis Batch:

480-25149

Instrument ID:

ICAP1

Prep Method:

3005A

Prep Batch:

Lab File ID:

11072611A-5.asc

Dilution:

1.0

480-24886

Initial Weight/Volume:

50 mL

Analysis Date: Prep Date:

07/26/2011 1740 07/26/2011 0930 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
	0.15		0.010
Copper	121		0.050
lron	0.089		0.0050
Lead	10.9		0.20
Magnesium	5.7		0.0030
Manganese	0.29		0.010
Nickel	13.3		0.50
Potassium	ND		0.015
Selenium	ND ND		0.0030
Silver	28.8		1.0
Sodium			0.020
Thallium	ND		0.0050
Vanadium	0.15		0.010
Zinc	0.23		0.010

7470A Mercury (CVAA)

Analysis Method: Prep Method:

Analysis Date:

Prep Date:

7470A

7470A 1.0

07/25/2011 1845 07/25/2011 1400 Analysis Batch: Prep Batch:

480-24989 480-24842 Instrument ID:

Lab File ID:

LEEMAN2 H07251W1.PRN

Initial Weight/Volume: Final Weight/Volume:

30 mL 50 mL

Analyte Mercury

Dilution:

Result (mg/L) ND

Qualifier

RL 0.00020

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

601	0B	Metal	s (ICP)

Analysis Method:

Prep Method:

6010B

3005A

1.0

Analysis Date: Prep Date:

Dilution:

07/26/2011 1742 07/26/2011 0930

Analysis Batch: Prep Batch:

480-25149

480-24886

Instrument ID: Lab File ID:

ICAP1

Initial Weight/Volume:

I1072611A-5.asc 50 mL

Final Weight/Volume:

50 mL

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
on	43.0		0.050
ead	0.035		0.0050
1agnesium	6.1		0.20
langanese	2.2		0.0030
lickel	0.16		0.010
otassium	13.5		0.50
elenium	ND		0.015
ilver	ND	3	0.0030
odium	20.0		1.0
hallium	ND		0.020
anadium	0.051		0.0050
inc	0.10		0.010

7470A Mercury (CVAA)

Analysis Method: Prep Method:

Analysis Date:

Prep Date:

7470A 7470A

1.0

07/25/2011 1847 07/25/2011 1400 Analysis Batch: Prep Batch:

480-24989 480-24842

Instrument ID: Lab File ID:

Initial Weight/Volume: Final Weight/Volume:

LEEMAN2 H07251W1.PRN

30 mL 50 mL

Analyte Mercury

Dilution:

Result (mg/L)

Qualifier

RL 0.00020

ND

TestAmerica Buffalo

Page 98 of 1491

08/12/2011

Job Number: 480-7633-1

Client: Brown and Caldwell

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 3005A Analysis Batch:

480-25149

Instrument ID:

ICAP1

Prep Method:

Prep Batch:

480-24886

Lab File ID:

11072611A-5.asc

Dilution:

1.0

Initial Weight/Volume:

50 mL

Analysis Date:

07/26/2011 1745

Final Weight/Volume:

50 mL

Prep Date:

07/26/2011 0930

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

7470A Mercury (CVAA)

Analysis Method: Prep Method:

Sodium

Thallium

Zinc

Vanadium

7470A 7470A 1.0

Analysis Batch: Prep Batch:

480-24989 480-24842 Instrument ID: Lab File ID:

LEEMAN2 H07251W1.PRN

0.020

0.0050

0.010

Initial Weight/Volume: Final Weight/Volume:

30 mL 50 mL

Analysis Date: Prep Date:

Dilution:

07/25/2011 1848 07/25/2011 1400

Qualifier

RL

Analyte Mercury

ND

Result (mg/L)

17.4

ND

0.074

0.28

0.00020

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

6010B	Metals	(ICP)
-------	--------	-------

Analysis Method: Prep Method:

Dilution:

6010B 3005A

1.0 07/26/2011 1747

Analysis Date: Prep Date: 07/26/2011 0930 Analysis Batch: Prep Batch:

480-25149

480-24886

Instrument ID:

Lab File ID:

ICAP1

I1072611A-5.asc Initial Weight/Volume: 50 mL

Final Weight/Volume:

50 mL

Analyte	Result (mg/L)	Qualifier	RL
Aluminum	14.0		0.20
Antimony	ND		0.020
Arsenic	0.010		0.010
3arium -	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
on	31.8		0.050
ead	0.024		0.0050
1agnesium	4.1		0.20
fanganese	1.1		0.0030
ickel	0.10		0.010
otassium	8.5		0.50
elenium	ND		0.015
ilver	ND		0.0030
odium	20.1		1.0
hallium	ND		0.020
anadium	0.036		0.0050
inc	0.052		0.000

7470A Mercury (CVAA)

Analysis Method: Prep Method:

7470A 7470A 1.0

Dilution: Analysis Date:

Prep Date:

07/25/2011 1850 07/25/2011 1400 Analysis Batch: Prep Batch:

480-24989

480-24842

Instrument ID: Lab File ID:

H07251W1.PRN Initial Weight/Volume:

30 mL

Final Weight/Volume:

50 mL

LEEMAN2

Analyte

Result (mg/L) ND

Qualifier

RL

Mercury

0.00020

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

3010	R Ma	tale	(ICP)
30 101	o ista	rais	IIOFI

Analysis Method: Prep Method:

6010B 3005A Analysis Batch:

480-25149

Instrument ID:

ICAP1

Dilution:

Prep Batch:

480-24886

Lab File ID:

11072611A-5.asc

Analysis Date:

1.0

Initial Weight/Volume:

50 mL

Prep Date:

07/26/2011 1749 07/26/2011 0930 Final Weight/Volume:

50 mL

Analyte	Result (mg/L)	Qualifier	RL
Juminum	29.2		0.20
Antimony	ND		0.020
Arsenic	0.017		0.010
3arium -	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
ron	86.8		0.050
ead	0.052		0.0050
/lagnesium	6.0		0.20
Manganese	2.5		0.0030
lickel	0.19		0.010
Potassium	10.5		0,50
Selenium	ND		0.015
Silver	ND		0.0030
Sodium	22.2		1.0
hallium	ND		0.020
'anadium	0.073		0.0050
linc	0.24		0.010

7470A Mercury (CVAA)

Analysis Method: Prep Method:

7470A 7470A 1.0

Analysis Batch: Prep Batch:

480-24989 480-24842 Instrument ID: Lab File ID:

LEEMAN2 H07251W1.PRN

Dilution: Analysis Date: Prep Date:

07/25/2011 1852 07/25/2011 1400

Initial Weight/Volume: Final Weight/Volume:

30 mL 50 mL

Analyte Mercury

Result (mg/L) ND

Qualifier

RL 0.00020

Job Number: 480-7633-1

Client: Brown and Caldwell

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

6010B Metals (ICP)

Analysis Method:

6010B 3005A Analysis Batch:

480-25149

Instrument ID:

ICAP1

Prep Method:

Prep Batch:

480-24886

Lab File ID:

11072611A-5.asc

Dilution:

1.0

Analysis Date:

07/26/2011 1751

Initial Weight/Volume: Final Weight/Volume:

50 mL 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	0.60		0.50
Chromium	ND		0.0040
Cobalt	ND		0.0040
Copper	ND		0.010
ron	ND		0.050
Lead	ND		0.0050
	ND		0.20
Magnesium	ND		0.0030
Manganese	ND ND		0.010
Nickel	ND ND		0.50
Potassium	ND ND		0.015
Selenium			0.0030
Silver	ND NB		1.0
Sodium	ND		0.020
Thallium	ND		
Vanadium	ND		0.0050
Zinc	ND		0.010

7470A Mercury (CVAA)

Analysis Method: Prep Method:

Analysis Date:

7470A 7470A

1.0 07/25/2011 1853

07/25/2011 1400

Analysis Batch: Prep Batch:

480-24989 480-24842 Instrument ID: Lab File ID:

LEEMAN2 H07251W1.PRN

Initial Weight/Volume: Final Weight/Volume:

30 mL 50 mL

Analyte Mercury

Prep Date:

Dilution:

Result (mg/L) ND

Qualifier

RL 0.00020

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

Analysis Method: Prep Method:

Dilution:

6010B

3005A

1.0

Analysis Date: Prep Date:

07/26/2011 1753 07/26/2011 0930 Analysis Batch: Prep Batch:

480-25149

480-24886

Instrument ID:

Lab File ID:

ICAP1

Initial Weight/Volume:

11072611A-5.asc

Final Weight/Volume:

50 mL 50 mL

Analyte	Result (mg/L)	Qualifier	RL
Aluminum	5.9		0.20
Antimony	ND		0.020
Arsenic	ND		0.010
Barium	0.028		0.0020
eryllium	ND		0.0020
admium	ND		0.0010
Calcium	28.1		0.50
Chromium	0.15		0.0040
obalt	ND		0.0040
opper	0.020		0.010
on	7.0		0.050
ead	0.0086		0.0050
agnesium	2.7		0.20
anganese	0.086		0.0030
ickel	0.073		0.010
otassium	3.1		0.50
elenium	ND		0.015
lilver	ND		0.0030
odium	6.1		1.0
'hallium	ND		0.020
anadium	0.015		0.0050
inc	0.054		0.010

7470A Mercury (CVAA)

Analysis Method: Prep Method:

Analysis Date:

Prep Date:

7470A 7470A 1.0

07/25/2011 1855 07/25/2011 1400 Analysis Batch: Prep Batch:

480-24989

480-24842

Instrument ID: Lab File ID:

LEEMAN2 H07251W1.PRN

Initial Weight/Volume: Final Weight/Volume: 30 mL 50 mL

Analyte

Dilution:

Result (mg/L)

Qualifier

RL

Mercury

ND

0.00020

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

6010B Metals (ICP)

Analysis Method:

6010B 3005A

Analysis Batch:

480-25149

Instrument ID:

ICAP1

Prep Method:

Prep Batch:

480-24886

Lab File ID:

11072611A-5.asc

Dilution:

1.0

Initial Weight/Volume:

50 mL

Analysis Date:

07/26/2011 1800

Final Weight/Volume:

Prep Date:

07/26/2011 0930

50 mL

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: Prep Method:

7470A 7470A 1.0

Analysis Batch: Prep Batch:

480-24989 480-24842 Instrument ID: Lab File ID:

LEEMAN2 H07251W1.PRN

Dilution: Analysis Date: Prep Date:

07/25/2011 1857 07/25/2011 1400 Initial Weight/Volume: Final Weight/Volume:

30 mL 50 mL

Analyte

Result (mg/L) ND

Qualifier

RL 0.00020

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

6010B Metals (ICP)

Analysis Method:

6010B

3005A

Prep Method:

Dilution: Analysis Date: 1.0

Prep Date:

07/26/2011 1802 07/26/2011 0930 Analysis Batch: Prep Batch:

480-25149

480-24886

Instrument ID:

ICAP1

Lab File ID: Initial Weight/Volume: 11072611A-5.asc

50 mL

Final Weight/Volume:

50 mL

Analyte	Result (mg/L) Q	ualifier 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
√anadium	0.060	0.0050
Zinc	0.38	0.010

7470A Mercury (CVAA)

Analysis Method: Prep Method:

7470A 7470A

Dilution: Analysis Date: Prep Date:

1.0 07/25/2011 1902 07/25/2011 1400 Analysis Batch: Prep Batch:

480-24989

480-24842

Instrument ID: Lab File ID:

LEEMAN2 H07251W1.PRN

Initial Weight/Volume: Final Weight/Volume:

30 mL 50 mL

Analyte Mercury Result (mg/L)

Qualifier

RL 0.00020

ND

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

204		Metals	
BUT	ub	Metals	IIILE

Analysis Method:

6010B

Analysis Batch:

480-25149

Instrument ID:

ICAP1

Prep Method:

3005A

Prep Batch:

480-24886

Lab File ID:

11072611A-5.asc

Dilution: Analysis Date: 1.0

07/26/2011 1804

Initial Weight/Volume:

50 mL

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: Prep Method:

7470A 7470A 1.0

Analysis Batch: Prep Batch:

480-24989 480-24842 Instrument ID: Lab File ID:

LEEMAN2 H07251W1.PRN

Dilution: Analysis Date: Prep Date:

07/25/2011 1903 07/25/2011 1400 Initial Weight/Volume: Final Weight/Volume:

30 mL 50 mL

Analyte Mercury Result (mg/L)

Qualifier

RL

Job Number: 480-7633-1

Client Sample ID:

Client: Brown and Caldwell

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: Prep Method:

6010B 3005A Analysis Batch:

480-25149

Instrument ID:

ICAP1

Dilution:

1.0

Prep Batch:

480-24886

Lab File ID:

I1072611A-5.asc

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
LIIIO	1.0	

7470A Mercury (CVAA)

Analysis Method: Prep Method:

7470A 7470A 1.0

Analysis Batch: Prep Batch:

480-24989 480-24842 Instrument ID: Lab File ID:

LEEMAN2 H07251W1.PRN

07/25/2011 1905 Analysis Date: Prep Date: 07/25/2011 1400 Initial Weight/Volume: Final Weight/Volume:

30 mL 50 mL

Analyte

Dilution:

Result (mg/L)

Qualifier

RL 0.00020

Mercury

ND

08/12/2011

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: Prep Method:

6010B

3005A

1.0

Analysis Date: Prep Date:

Dilution:

07/26/2011 1809 07/26/2011 0930 Analysis Batch Prep Batch:

480-25149

480-24886

Instrument ID:

Lab File ID:

ICAP1 I1072611A-5.asc

Initial Weight/Volume:

50 mL

Final Weight/Volume: 50 mL

Analyte		Result (m	ng/L)	Qualifier	RL
Aluminum		185			0.20
Antimony		ND			0.020
Arsenic		0.11 📆			0.010
Barium		1.1	•		0.0020
Beryllium		0.012			0.0020
Cadmium		0.0041	_		0.0010
Calcium		29.9	5		0.50
Chromium		3,1			0.0040
Cobalt		0.14	T		0.0040
Copper		0.80			0.010
Lead		0.30			0.0050
Magnesium		31.7 🚺	_		0.20
Manganese		8.0 👅	_		0.0030
Nickel		0.75 🔰	_		0.010
Potassium		29.1 👅			0.50
Selenium		ND			0.015
Silver		ND		L	0.0030
Sodium		18.6 🍑			1.0
Thallium		ND	_		0.020
Vanadium		0.49)		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:	12072811A-5.asc
Dilution:	5.0	•		Initial Weight/Volum	1000
Analysis Date:	07/28/2011 1022			Final Weight/Volum	
Prep Date:	07/26/2011 0930			,a. , , , , , , , , , , , , , , , ,	S THE

7470A Mercury (CVAA)

Result (mg/L)

Analysis Method: Prep Method Dilution:

Analysis Date:

Prep Date

7470A 7470A 1.0

07/25/2011 1907 07/25/2011 1400 Analysis Batch: Prep Batch:

610

480-24989 480-24842

Instrument ID: Lab File ID:

LEEMAN2 H07251W1.PRN

RL.

0.25

Initial Weight/Volume: 30 mL Final Weight/Volume: 50 mL

RL

Analyte Mercury

Analyte

Iron

Result (mg/L) ND

Qualifier

Qualifier

0.00020

Job Number: 480-7633-1

Client: Brown and Caldwell

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 3005A Analysis Batch:

480-25312

Instrument ID:

ICAP1

Prep Method: Dilution:

1.0

Prep Batch:

480-25078

Lab File ID:

11072711A-4.asc

Initial Weight/Volume: Final Weight/Volume: 50 mL

Analysis Date: Prep Date:

07/27/2011 1722 07/27/2011 0900

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
	46.6		0.50
Calcium	0.16		0.0040
Chromium	0.018		0.0040
Cobalt			0.010
Copper	0.046		0.050
Iron	30.8		0.0050
Lead	0.025		
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: Prep Method:

7470A 7470A

1.0

Analysis Date: Prep Date:

07/27/2011 1712 07/27/2011 1315 Analysis Batch: Prep Batch:

480-25360 480-25192

Instrument ID:

Lab File ID:

LEEMAN2 H07271W1.PRN

Initial Weight/Volume:

30 mL

Final Weight/Volume:

50 mL

Analyte Мегсигу

Dilution:

Result (mg/L) ND 1

Qualifier

RL

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

6010B	Metals	(ICP)

Analysis Method: Prep Method:

6010B 3005A Analysis Batch: Prep Batch:

480-25312

Instrument ID:

ICAP1

Dilution: Analysis Date:

Prep Date:

1.0

07/27/2011 1724 07/27/2011 0900

480-25078

Lab File ID:

11072711A-4.asc

Initial Weight/Volume:

50 mL

Final Weight/Volume:

50 mL

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
ron	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
Fhallium	ND		0.020
/anadium	0.062		0.0050
Zinc	0.20		0.010

7470A Mercury (CVAA)

Analysis Method: Prep Method:

7470A 7470A 1.0

Analysis Batch: Prep Batch:

480-25360 480-25192

Instrument ID: Lab File ID

LEEMAN2 H07271W1.PRN

Initial Weight/Volume: Final Weight/Volume:

30 mL 50 mL

Prep Date:

Analysis Date:

07/27/2011 1713 07/27/2011 1315

Result (mg/L)

Qualifier

RL

Analyte Mercury

Dilution:

ND

0.00020

Job Number: 480-7633-1 Client: Brown and Caldwell

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

601	00 1	Mai	hale	. //	CDI
601	ושע	иe	tais	i U	UP)

Analysis Method:

6010B 3005A Analysis Batch:

480-25312

Instrument ID: Lab File ID:

ICAP1

Prep Method: Dilution:

1.0

Prep Batch:

480-25078

Initial Weight/Volume:

I1072711A-4.asc 50 mL

07/27/2011 1726 Analysis Date: 07/27/2011 0900 Prep Date:

Final Weight/Volume:

50 mL

Analyte	Result (mg/L) Q	ualifier 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: Prep Method:

Analysis Date:

7470A 7470A 1.0

Analysis Batch: Prep Batch:

480-25360 480-25192 Instrument ID: Lab File ID:

LEEMAN2 H07271W1.PRN

Initial Weight/Volume: Final Weight/Volume:

30 mL 50 mL

Prep Date:

Dilution:

07/27/2011 1715 07/27/2011 1315

Result (mg/L)

Qualifier

RL 0.00020

Analyte Mercury

ND

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: Prep Method:

3005A

6010B

1.0

Analysis Date: Prep Date:

Dilution:

07/27/2011 1728 07/27/2011 0900 Analysis Batch: Prep Batch:

480-25312

480-25078

Instrument ID:

Lab File ID:

ICAP1

Initial Weight/Volume:

11072711A-4.asc 50 mL

Final Weight/Volume:

50 mL

Analyte	Result (mg/L) Qualifier	RL
Aluminum	16.5	0.20
Antimony	ND	0.020
Arsenic	0.010	0.010
3arium	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	0.0040
ron	70.4	0.050
_ead	0.058	0.0050
Magnesium	4.3	0.20
Manganese	3.1	0.0030
lickel	0.12	0.0030
Potassium	17.9	
Selenium	ND	0.50
Bilver	ND	0.015
Sodium	44.9	0.0030
Thallium		1.0
/anadium	ND 0.035	0.020
Zinc	2	0.0050
.II C	0.17	0.010

7470A Mercury (CVAA)

Analysis Method: Prep Method:

Analysis Date:

Prep Date:

7470A 7470A

1.0

07/27/2011 1717 07/27/2011 1315

Analysis Batch: Prep Batch:

480-25360 480-25192

Instrument ID: Lab File ID:

LEEMAN2 H07271W1.PRN

Initial Weight/Volume: Final Weight/Volume:

30 mL 50 mL

Analyte Mercury

Dilution:

Result (mg/L)

Qualifier

RL

Job Number: 480-7633-1

Client: Brown and Caldwell

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

6010B Metals (ICP)

Analysis Method:

6010B 3005A Analysis Batch.

480-25312

Instrument ID:

ICAP1

Prep Method: Dilution:

1.0

Prep Batch:

0.043

0.20

115

4.8

4.0

0.18

20.7

ND

ND

51.6

ND

0.041

0.22

0.080

480-25078

Lab File ID:

Qualifier

11072711A-4.asc

RL

0.20

0.020

0.010

0.0020

0.0020

0.0010

0.0040

0.0040

0.010

0.050

0.0050

0.0030

0.010

0.50

0.015

1.0

0.0030

0.020

0.0050

0.010

0.20

0.50

Analysis Date:

07/27/2011 1743

Initial Weight/Volume: Final Weight/Volume:

50 mL 50 mL

Prep Date:

07/27/2011 0900

Result (mg/L) Analyte 18.2 Aluminum ND **Antimony** 0.012 Arsenic 0.48 Barium ND Beryllium ND Cadmium 24.4 Calcium 0.82 Chromium

Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium

Selenium Silver Sodium Thallium Vanadium Zinc

Analysis Method: 7470A 7470A Prep Method:

Dilution: Analysis Date: Prep Date:

Analyte

Mercury

07/27/2011 1727 07/27/2011 1315

1.0

7470A Mercury (CVAA) Analysis Batch:

Prep Batch:

480-25360

480-25192

Instrument ID: Lab File ID:

LEEMAN2 H07271W1.PRN

Initial Weight/Volume: Final Weight/Volume:

30 mL 50 mL

Result (mg/L) ND

Qualifier

RL 0.00020

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 3005A Analysis Batch: Prep Batch:

480-25312

Instrument ID:

ICAP1

Prep Method: Dilution:

480-25078

Lab File ID:

I1072711A-4.asc

Analysis Date:

1.0

Initial Weight/Volume.

50 mL

Prep Date:

07/27/2011 1746 07/27/2011 0900

Final Weight/Volume: 50 mL

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
ron	114	0.050
.ead	0.075	0.0050
//agnesium	6.4	0.20
Manganese	4.5	0.0030
lickel	0.19	0.010
otassium	14.6	0.50
Selenium	ND	0.015
Bilver	ND	0.0030
Sodium	46.7	
hallium	ND	1.0
/anadium	0.051	0.020
linc	0.54	0.0050 0.010

7470A Mercury (CVAA)

Analysis Method: Prep Method:

7470A 7470A 1.0

Analysis Batch: Prep Batch:

480-25360 480-25192 Instrument ID: Lab File ID:

LEEMAN2 H07271W1.PRN

Dilution: Analysis Date: Prep Date:

07/27/2011 1729 07/27/2011 1315 Initial Weight/Volume: Final Weight/Volume

30 mL 50 mL

Analyte Mercury

Result (mg/L) ND

Qualifier

RL 0.00020

Client: Brown and Caldwell

Job Number: 480-7633-1

Client Sample ID:

FB-072511

Lab Sample ID:

480-7684-7FB

Client Matrix:

Water

07/27/2011 1748

07/27/2011 0900

Date Sampled: 07/25/2011 1200

Date Received: 07/26/2011 1000

CO40D	Metals	//OD\
DUIUD	METAIS	III.PI

Analysis Method: Prep Method:

Analysis Date:

Prep Date:

Dilution:

6010B

3005A 1.0

Analysis Batch: Prep Batch:

480-25312 480-25078

Instrument ID:

Lab Fite ID:

ICAP1

Initial Weight/Volume:

11072711A-4.asc

Final Weight/Volume:

50 mL 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	ND		0.50
Chromium	ND		0.0040
Cobalt	ND		0,0040
Copper	ND		0.010
ron	ND		0.050
.ead	ND		0.0050
Magnesium	ND		0.20
Manganese	ND		0.0030
lickel .	ND		0.010
Potassium	ND		0.50
Selenium	ND		0.015
Silver	ND		0.0030
Sodium	ND		1.0
Γhallium	ND		0.020
/anadium	ND		0.0050
Zinc	ND		0.010

7470A Mercury (CVAA)

Analysis Method: Prep Method:

Analysis Date:

Prep Date:

7470A 7470A 1.0

07/27/2011 1730

07/27/2011 1315

Analysis Batch: Prep Batch:

480-25360 480-25192 Instrument ID:

Lab File ID:

LEEMAN2 H07271W1.PRN

Initial Weight/Volume: Final Weight/Volume:

30 mL 50 mL

Analyte Mercury

Dilution:

Result (mg/L) ND

Qualifier

RL

0.00020