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September 11, 2025

Ms. Crystal Collins
Chief, Redevelopment Unit
Land Division
Alabama Department of Environmental Management
P.O. Box 301463
Montgomery, Alabama 36130-1463

Subject: **Voluntary Property Assessment Report
PNC Bank Branch
1668 Montclair Road
Birmingham, Jefferson County, Alabama
Bullock Environmental, LLC Project #: 25-MAPD01**

Dear Ms. Collins,

On behalf of MAP Eastwood LLC, a non-responsible party Applicant, Bullock Environmental, LLC (Bullock) submits the attached Voluntary Property Assessment Report for the above-referenced Site. As detailed in the attached document, the Site formerly housed a dry cleaning facility known as Aladdin Cleaners which was demolished in approximately 2008. The Site was subsequently developed with a Compass Bank branch (constructed a branch on the property in approximately September 2008) and operated there for approximately ten years until it was converted into a PNC Bank branch. PNC Bank has operated on the Site since that time.

The enclosed Voluntary Property Assessment Report details the activities completed to date and provides analytical results from a groundwater monitoring event conducted in July 2025. This Voluntary Property Assessment Report further demonstrates that the chemicals of concern remaining in onsite groundwater do not pose a viable exposure risk to current or future occupants of the Site. As such, the recommendations set forth herein include the use of an environmental covenant as an appropriate remedy to achieve closure through the Alabama Voluntary Cleanup Program. The proposed environmental covenant would prohibit use of onsite groundwater for potable or irrigation purposes and limit the future use of the Site to commercial operations (i.e., prohibit the future use of the Site for residential purposes, including, but not limited to, schools, dwellings, homes, hospitals, child-care centers, nursing homes, playgrounds, recreation centers, or other areas/structures with sensitive human activity).

If you have any questions or comments regarding the attached Voluntary Property Assessment Report, please contact us at your convenience using the sources provided above. Alternatively, you may reach us via email at doug.bullock@bullockenvironmental.com. 🐼

Sincerely,
BULLOCK ENVIRONMENTAL, LLC

Douglas A. Bullock
Principal



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Voluntary Property Assessment Report
PNC Bank Branch
1668 Montclair Road
Birmingham, Jefferson County, Alabama
Bullock Environmental, LLC Project #: 25-MAPD01

Prepared on behalf of:

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September 11, 2025

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CERTIFICATION PAGE

I certify under penalty of law that this document and all plans, specifications, and technical data submitted were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiring of the person or persons who directly gathered the enclosed information, the information submitted, to the best of my knowledge and belief, is true, accurate, and complete. I am aware that there are significant penalties for submitting false information.



Signed

Mr. Samuel Smith

Printed

AL-P.G. # 1287

Registration Number

September 11, 2025

Date

1.0 INTRODUCTION

1.1 SITE DESCRIPTION

The Site, located at 1668 Montclair Road in Birmingham, Jefferson County, Alabama, comprises approximately 0.61-acre of commercial land occupied by a PNC Bank branch.

The Site is identified on the United States Geological Survey (USGS) 7.5-minute Topographic Quadrangle *Irondale, Alabama*, dated 2020 (included as **Figure 1**), and is located in the southwest quarter of the northeast quarter of Section 26, Township 17 South, Range 2 West in Birmingham, Jefferson County, Alabama.

A Site Plan illustrating the onsite improvements is included as **Figure 2**. Properties surrounding the Site include commercial and retail development in all directions with residential housing located farther south (across Montclair Road). An area land use map is included as **Figure 3**.

1.2 SITE HISTORY AND PURPOSE

Considering the information obtained during the investigations completed to date, Bullock learned that the Site historically housed a dry cleaning facility (Aladdin Cleaners) which was an outparcel on the southern side of a former shopping center known as Eastwood Mall. Eastwood Mall was developed in approximately 1959 while the Aladdin Cleaners property was developed as early as 1967 (aerial photographs). It operated as a dry cleaning facility from that time until approximately 2008 when it was demolished and replaced with the current structure. Compass Bank operated on the Site until approximately 2018. Since that time, PNC Bank has occupied the Site.

The purpose of this Voluntary Property Assessment Report is to document investigations conducted to date, which demonstrate adequate lateral and vertical assessment of chemicals of concern (COCs) in onsite soil and groundwater. As documented in subsequent sections of this report, COCs identified in onsite groundwater have primarily comprised chlorinated volatile organic compounds (VOCs) including tetrachloroethylene (PCE), trichloroethylene (TCE), cis- and trans-1,2-dichloroethylene (DCE), and vinyl chloride. In light of the assessment activities completed to date, the purpose of this Voluntary Property Assessment Report is to demonstrate that the COC concentrations in groundwater are stable and/or decreasing while presenting no viable exposure risk to current or future occupants.

Bullock Environmental, LLC (Bullock) prepared this document on behalf of MAP Eastwood LLC to achieve the following objectives:

1. Demonstrate adequate assessment of COCs in soil and groundwater on the Site to develop an appropriate remedial plan;
2. Evaluate onsite vapor intrusion risks (if any) on the Site;
3. Present the rationale for the use of an environmental covenant as appropriate remedy to protect human health and the environment;
4. Obtain Alabama Department of Environmental Management (ADEM) approval of this Voluntary Property Assessment Report; and
5. Following ADEM's approval of the Voluntary Property Assessment Report, establish appropriate institutional controls (through an environmental covenant) to mitigate potential exposure to COCs (if any) potentially remaining in onsite groundwater.

The following sections present the required elements of a Voluntary Property Assessment Report (as outlined in ADEM Administrative Code 335-15-4-.03) and detail the basis for recommending certain use



“restrictions such as land use controls, if appropriate to, satisfy the cleanup requirements for the qualifying property (ADEM Administrative Code 335-4-.04(1)).”

2.0 SUMMARY OF PREVIOUS ASSESSMENTS

Site investigations completed to date included the following:

- September 2001: Phase II Environmental Site Assessment (ESA) conducted by EMG indicated the presence of COCs related to dry cleaning solvents in onsite soil and groundwater;
- July 2003: Initial Investigation was conducted by PPM Consultants, Inc. (PPM) which included the installation of two shallow monitoring wells. The *Initial Investigation Report* was submitted to ADEM in January 2004;
- May 2004: ADEM requested additional assessment of onsite groundwater, which included the installation of one additional shallow monitoring well and one deep Type III well;
- October 2004: PPM submitted the Additional Assessment Report to ADEM, resulting in the request for supplemental investigation of the lateral and vertical extent of COC-affected groundwater;
- March 2005: An Additional Assessment Plan was submitted to ADEM, which approved the Plan in April 2005;
- May and November 2005: Gallet & Associates, Inc. (Gallet) collected groundwater samples from four monitoring wells located on the Site, which documented certain chlorinated VOCs to be present in onsite groundwater;
- February 2006: Gallet collected six soil vapor samples around the former Aladdin Cleaners structure for analysis of chlorinated VOCs according to Environmental Protection Agency (EPA) Method T0-15 (See further detail in subsequent sections of this report. Soil gas results from this event are summarized in **Table 1** with laboratory analytical data sheets and the corresponding Vapor Intrusion Screening Level [VISL] out from this event are provided in **Appendix A**. Likewise, soil vapor sampling locations from this event are illustrated on **Figure 4**.);
- May 2006: Gallet delivered a Voluntary Cleanup Plan to ADEM (which included the groundwater and soil vapor sampling results obtained from the Site) and requested a *Conditional Letter of Concurrence* for the Eastwood Mall property and the outparcels surrounding it (excluding the Site for consideration for closure through the Alabama Voluntary Cleanup Program [VCP]);
- June 2006: ADEM issued a letter stating that the Site would be addressed under the Drycleaning Environmental Response Trust Fund (DERTF) rather than the Alabama VCP;
- August 2006: ADEM issued a Conditional Letter of Concurrence for the Eastwood Mall property and the outparcels surrounding the Site;
- March 2008: ADEM requested supplemental groundwater sampling prior to the implementation of a Property Assessment Work Plan through the DERTF;
- May 2008: Gallet became the DERTF contractor for the Site. At this point, the dry cleaning facility had been razed;
- September 2008: Construction of Compass Bank was initiated;
- November 2008: Gallet submitted Cost Proposal (CP) # 2 to the DERTF to complete supplemental investigation of onsite soil and groundwater. Additionally, it was discovered that two additional monitoring wells were damaged or destroyed as a result of construction activities associated with the Compass Bank branch;
- January 2009: The damaged Type III monitoring well was abandoned;
- August-September 2010: Gallet (now Terracon Consultants, Inc. [Terracon]) completed a Preliminary Assessment at the Site which included the installation of monitoring wells MW-1 through MW-4 and DW-1 and the collection of soil and groundwater samples from each location;



- January 20, 2011: Terracon submitted the Preliminary Assessment report to ADEM for approval and subsequently delivered a Work Plan for the installation of four additional Type III monitoring wells and three additional Type II monitoring wells (April 2011);
- April 2013: Following the DERTF's approval of the Work Plan, Terracon completed the supplemental investigation work listed above. The results of the investigation revealed chlorinated VOCs to be present in three groundwater samples at concentrations exceeding applicable ADEM screening levels;
- June 2013: Terracon submitted cost proposals to the DERTF to complete a comprehensive groundwater monitoring event and an Alabama Risk-Based Corrective Action (ARBCA) evaluation;
- August 2013: Terracon conducted a Site-wide groundwater monitoring event. Chlorinated VOCs were detected at concentrations exceeding applicable EPA Maximum Contaminant Levels (MCLs) or tap water Regional Screening Levels (RSLs) in four monitoring wells (MW-1, MW-3, DW-1, and DW-1-D);
- November 2013: Terracon conducted a Site-wide groundwater monitoring event which revealed certain chlorinated VOCs to be present above the EPA MCLs/tap water RSLs in five monitoring wells (MW-1, MW-3, DW-1, DW-3, and DW-1-D). The results from the groundwater event and an ARBCA evaluation were submitted to ADEM on January 15, 2014 (included in **Appendix A**);
- February 11, 2014: ADEM correspondence stated that even though cumulative risks calculated in the ARBCA were below allowable levels, the concentrations of some COCs remained above Preliminary Screening Values (PSVs) established by ADEM; therefore, an Environmental Covenant was required for site closure;
- July 8, 2014: Terracon submitted a Work plan for the preparation of an Environmental Covenant. ADEM approved the Work Plan in correspondence dated August 5, 2014;
- April 21, 2016: Aladdin Cleaners and Laundry, Inc. submitted a letter to ADEM requesting additional time to pursue an Environmental Covenant for the Site with the current Site owner;
- February 16, 2018: Following the revisions to the ARBCA program in 2017, ADEM requested a Work Plan for a groundwater monitoring event and updated ARBCA evaluation;
- April 26, 2018: Terracon submitted the Work Plan which was subsequently approved by ADEM on May 30, 2018;
- August 8, 2018: ADEM requested a postponement of the updated ARBCA until an additional groundwater monitoring event was conducted (to better gauge current groundwater conditions due to the length of time since the previous monitoring event);
- July 20, 2018: Terracon completed a comprehensive groundwater monitoring event, which revealed similar results to those obtained in 2013;
- November 19, 2018: ADEM approved a groundwater monitoring Work Plan but rejected the plan to update the ARBCA evaluation due to increasing COC concentrations measured in select monitoring wells (DW-3 and DW-1-D);
- March 6, 2019: Terracon submitted a groundwater monitoring report documenting the results of the monitoring activities conducted in December 2018;
- April 1, 2019: Following its review of the December 2018 sampling results, ADEM issued correspondence requested continued groundwater monitoring activities at the Site;
- November 29, 2019: Terracon submitted a groundwater monitoring report to ADEM, documenting the results obtained during the June 2019 sampling event;
- January 28, 2020: Following its review of the June 2019 groundwater monitoring report, ADEM requested continued groundwater monitoring activities at the Site;
- April 29, 2020: Terracon submitted a Groundwater Monitoring Work Plan to ADEM, which was approved in correspondence dated May 18, 2020;
- June 26, 2020: Terracon completed groundwater sampling activities in accordance with the ADEM-approved Work Plan, resulting in ADEM's request (in correspondence dated February 18, 2021) for an additional monitoring event in 2021;
- June 25, 2021: Terracon completed a groundwater monitoring event at the Site, which revealed chlorinated VOCs (which appeared generally stable relative to previous events) to be above applicable



- MCLs/tap water RSLs in monitoring wells MW-1, MW-3, DW-1, DW-2, DW-3, and DW-1-D (included in **Appendix A**); and
- 2022: Mr. Timothy Barr (Aladdin Cleaners & Laundry, Inc.) reportedly elected to withdraw the Site from the DERTF. Since that time, there has been no additional assessment of the Site.

Historical water table elevation data and groundwater analytical results obtained from 2010 through 2021 are included in **Table 2** and **Table 3**. **Appendix A** includes copies of previous Site investigation reports documenting the assessment activities completed between 2010 and 2021 to evaluate the lateral and vertical extent of COC-affected media on the Site. *Notably, as documented in both the soil vapor sampling results in 2006 (with corresponding VISL Calculator) and the 2013 ARBCA evaluation, cumulative, onsite vapor intrusion risks were confirmed to be below ADEM’s established thresholds.*

3.0 SCOPE OF WORK AND REPORT ORGANIZATION

3.1 SCOPE OF WORK

In accordance with ADEM Administrative Code 335-15-4-.03 and 335-15-4-04, this Voluntary Property Assessment Report includes the following:

335-15-4-.03 (2) (Voluntary Property Assessment Plan/Report Content)

A Voluntary Property Assessment Plan (and Report) submitted by an applicant shall describe in sufficient detail those actions planned to develop the information necessary to perform a risk assessment or identify applicable cleanup standards for the qualifying property utilizing requirements found in the Alabama Risk-based Corrective Action Guidance (ARBCA) Manual or other appropriate risk-based corrective action principles through the appropriate implementation of applicable response actions or land use controls. The (Report) should describe the methods to be used to determine the type(s) and the amount(s) of any contamination including the delineation of all soil and groundwater contamination discovered or known to exist within the qualifying property boundaries or portions thereof. Information submitted in the Voluntary Property Assessment (Report) shall be submitted in a format consistent with the Alabama Environmental Investigation and Remediation Guidance (AEIRG).

3.2 REPORT ORGANIZATION

Section 4.0 summarizes Site characterization information and includes the general geology, hydrogeology, and lithology of the Site area and provides Site-specific information regarding COCs detected in onsite soil and groundwater. Section 5.0 describes the potential exposure mechanisms potentially affecting current and future occupants as a result of the chlorinated VOCs detected in onsite groundwater and demonstrates no viable exposure risks are present. Section 6.0 presents conclusions and recommendations while Section 7.0 lists the reference sources cited throughout this report.

4.0 SITE CHARACTERIZATION AND FIELD INVESTIGATION RESULTS

4.1 SURROUNDING POPULATION

Properties surrounding the Site include commercial development on all sides (see **Figure 3**).



4.2 GEOLOGY AND HYDROGEOLOGY

According to the *Geologic Map of Alabama, Special Map 220*, the Site is underlain by the Mississippian-aged Floyd Shale and Bangor Limestone-undifferentiated. This formation comprises dark gray to black shale containing siderite nodules (Floyd Shale) and medium-gray bioplastic and oolitic limestone silicified near intervals of olive-gray and grayish-red-purple mudstone (Bangor Limestone). Previous investigations on the Site have validated the underlying geology presented in this source (see **Appendix A**).

Site topography, which has been altered by development, is generally level with a gentle slope to the south. Stormwater is directed away from the Site via surface flow, infiltration, drainage channels, and curb and gutter. Various factors can affect groundwater flow direction. In general, for unconfined aquifers, the direction of shallow groundwater movement mirrors surface topography and generally flows from hilltops and uplands (recharge areas) to stream valleys (discharge areas). Based on the interpretation of the *Irondale, Alabama* topographic quadrangle, shallow groundwater beneath the Site is inferred to generally flow to the south-southwest. Groundwater elevations measured in July 2025 supported this finding with groundwater depths ranging from 4.75 feet below top of casing (btoc) in monitoring well MW-6 to 76.45 feet btoc in monitoring well DW-1. Finally, due to the hydraulic head from a confined (deeper) water-bearing unit, the water table elevation was measured to be less than one foot btoc in monitoring well DW-4 (see current and historical water table elevation measurements in **Table 2**).

A search of public and private water wells within one mile of the Site revealed 18 water wells to be present (**Figure 5**). Five public water wells (operated by the City of Irondale) were identified within one mile of the Site. Details regarding each water well within one mile of the Site are included in **Appendix B**. Review of available records for each well revealed the following:

- **Wells A1 to A5 (Eastwood Mall Wells 1 through 3, 5, and Well 1474)**, located approximately 1,000 feet northwest of the Site, are maintained by the USGS and are reportedly installed within a confined (Bangor Limestone) aquifer (separate from the shallow groundwater underlying the Site). Recorded installation depths range from 80 (Well A2) to 90 (Well A1) feet below land surface (BLS) with the exception of Well A4 which is reportedly installed to a depth of 462 feet BLS. Finally, none of these wells function as a public water source, according to available records.
- **Well 6 (Eastwood Mall Well #4-USGS 333150086424401)**, located approximately 300 feet north of the Site, this well, which is no longer in service, was reportedly installed in 1965 to a depth of 135 feet BLS (confined single aquifer within Bangor Limestone).
- **Well 7 (W 23 Eastwood Mall)**, located approximately 1,250 feet east of the Site, this well, which is no longer in service, was reportedly installed in 1970 to a depth of 118 feet BLS (confined single aquifer) and was used to support the air conditioning system within the former Eastwood Mall.
- **Well 8 (Gulas Restaurant)**, located approximately 0.6 mile east of the Site, this well, which is no longer in service, was reportedly installed in 1951 and deepened to a depth of 118 feet BLS (confined single aquifer within Red Mountain Formation).
- **Wells B9 to B11, 13, 15, and 16 (City of Irondale Public Water Supply Wells)**, located approximately 0.75 mile northeast of the Site, are maintained by the City of Irondale and are reportedly installed within a confined (Bangor Limestone) aquifer (separate from the shallow groundwater underlying the Site). The recorded installation depth for Well B9 (PWS #6-Swim Club Well) is 300 feet (installed in 1975). Recorded installation depths for wells B10 and B11 were not available; however, both wells are reportedly used by the Irondale Water System. Well 13, installed in 1975, was reportedly advanced to a depth of 303 feet BLS, while Well 15 (installed in 1954) was reportedly advanced to a depth of 312 feet BLS. No additional information was available for Well 16; however, review of the most recent Annual Drinking Water Quality Report revealed no detectable levels of target COCs in the City of Irondale's water supply wells.



- **Well 12 (W 12-USGS 333212086433901)**, located approximately one mile northwest of the Site, is reportedly maintained by the USGS and was installed to a depth of 126 feet BLS in 1948. No other information was available for this well other than its installation within a confined aquifer associated with the Bangor Limestone.
- **Well 14 (Site ID: 15174)**, located approximately 0.75 mile east of the Site (and installed in 1991), is reportedly maintained by the USGS to record groundwater flow, which is reported to the northeast.
- **Well C17**, located approximately 0.75 mile east-northeast of the Site (and installed in 1995), is reportedly maintained by the USGS to record groundwater elevation data (12 feet BLS is the deepest reported depth to groundwater).
- **Well C18 (W 6-USGS 333211086421901)**, formerly located approximately 0.75 mile east-northeast of the Site (and installed in 1948), was reportedly used by Irondale Ice Company. It was installed to a depth of 210 feet BLS (in a confined aquifer associated with the Bangor Limestone) and is no longer in use.

Public water is supplied to the Site by the Birmingham Water Works Board which obtains its water from surface water intakes located more than three miles from the Site.

Finally, Bullock completed area reconnaissance for each documented well on August 11, 2025, and did not locate Wells 6 through 8, Well 12, Well 14, Well C17, or Well C18. Based on the results of this reconnaissance, Bullock determined Wells 6 through 8 and Well C18 to be abandoned. Finally, a copy of the most recent available Annual Drinking Water Quality Report from the City of Irondale is included in **Appendix B**.

Water table elevations measured in onsite groundwater during the July 15, 2025, monitoring event are included on **Figure 6A** and **Figure 6B**.

4.3 SITE SOILS

According to the United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) Web Soil Survey, a majority of the Site is underlain by Urban Land. Urban land areas are covered by commercial, industrial, or high-density residential facilities. These areas have been altered to achieve large areas that are nearly level, to avoid flooding or wetness problems, or to increase load supporting capacity. The original soil was altered by cutting and filling, shaping and grading, excavating, blasting, compacting, or covering with concrete or asphalt. Soil strata encountered during previous investigations revealed underlying soil to comprise brown and yellowish-orange gravelly silty clays, silts, and fine sands below the asphalt-gravel base to the underlying bedrock (present between eight and 13 feet BLS). Boring logs documenting these findings from previous assessment reports are included in **Appendix A**.

4.4 UNDERGROUND UTILITY SURVEY

Known underground utilities at the Site include water, power, communication, storm sewer, gas, and sanitary sewer. Bullock personnel observed no evidence that underground utilities are functioning as conduits for potential contaminant transfer. Bullock personnel estimated the depths of onsite, subsurface utility lines to range from one foot to five feet BLS. **Figure 6A** and **Figure 6B** illustrate known subsurface utilities surrounding the Site.



4.5 RELEASE CHARACTERIZATION AND DISTRIBUTION OF COCS

Historical monitoring events revealed evidence of low-level concentrations of chlorinated VOCs in onsite groundwater (i.e., at concentrations exceeding applicable drinking water standards or tap water screening values established by EPA). See subsequent Sections detailing the compounds and noted concentrations of each.

Table 3 summarizes the analytical results for the groundwater samples collected during the investigation activities completed to date.

4.5.1 Chemicals of Concern

The primary COCs considered in this Voluntary Property Assessment Report include chlorinated VOCs in onsite groundwater.

4.5.2 Distribution of COCs

Surficial Soil: Site investigations revealed no COCs to be present in surficial soil at concentrations exceeding applicable EPA RSLs.

Subsurface Soil: Analytical data for the soil samples collected to date reveal naphthalene to be the only COC detected at concentrations exceeding laboratory reporting limits, which was detected in soil boring SB-3 (4 to 6 feet BLS).

Groundwater: The analytical results obtained from the groundwater samples collected to date reveal the following:

1. **Tetrachloroethylene (PCE):** Monitoring wells MW-1, MW-3, MW-4, DW-1 through DW-3, and DW-1-D have historically contained PCE at concentrations exceeding the MCL of 0.005 milligrams per liter (mg/L); however, review of the two most recent monitoring events (June 25, 2021, and July 15, 2025) revealed PCE to be present above its MCL in monitoring wells MW-1, MW-3, DW-1, DW-2, DW-3, and DW-1-D at concentrations ranging from 0.006 mg/L (DW-2, July 25, 2025) to 0.0909 mg/L (DW-1-D, June 25, 2021);
2. **Trichloroethylene (TCE):** Monitoring wells MW-1, MW-4, DW-1 through DW-3, and DW-1-D have historically contained TCE at concentrations exceeding the MCL of 0.005 mg/L; however, review of the two most recent monitoring events (June 25, 2021, and July 15, 2025) revealed TCE to be present above its MCL in monitoring wells DW-1, DW-2, and DW-1-D at concentrations ranging from 0.007 mg/L (DW-2, July 15, 2025) to 0.053 mg/L (DW-1-D, July 15, 2025);
3. **Cis-1,2-Dichloroethylene (DCE):** This compound has historically been present in monitoring well MW-4 at concentrations exceeding its applicable MCL of 0.07 mg/L; it was most recently detected on June 25, 2021, at a concentration of 0.0702 mg/L, while the July 25, 2025, monitoring event revealed no detectable concentrations of this compound in onsite groundwater; and
4. **Vinyl Chloride:** This compound has historically been present in monitoring well MW-4 at concentrations exceeding its applicable MCL of 0.002 mg/L; it was most recently detected on June 25, 2021, at a concentration of 0.00306 mg/L, while the July 25, 2025, monitoring event revealed no detectable concentrations of this compound in onsite groundwater.

While Acetone, Ethylbenzene, methyl-tertiary butyl ether (MTBE), Toluene, Xylenes, 1,2,3-Trimethylbenzene (TMB), and 1,2,4-TMB have been detected in onsite groundwater at concentrations exceeding laboratory reporting limits (in monitoring wells MW-1, MW-2, MW-8, DW-1, DW-3, DW-4 and DW-1-D), none of these compounds were present above applicable MCLs or tap water RSLs. As



such, they were not considered applicable COCs related to former dry cleaning operations and have been excluded from further consideration.

COCs in groundwater are summarized in **Table 3** and illustrated on **Figure 7**. Copies of the laboratory analytical reports for the groundwater samples collected during the July 15, 2025, monitoring event are included in **Appendix C**. Finally, comparison of the COC concentrations measured in onsite groundwater relative to historical trends (**Appendix D**) reveal a stable or decreasing trend for all compounds since monitoring activities commenced in 2010.

5.0 EVALUATION OF VAPOR INTRUSION RISKS

With the analytical results obtained from the 2021 and 2025 monitoring events, Bullock evaluated the potential vapor intrusion risks based on the continued commercial use of the Site.

COCs were present in groundwater at concentrations exceeding applicable drinking water standards or tap water screening levels established by EPA. However, as MAP Eastwood LLC intends to continue its use of water supplied by Birmingham Water Works (to be codified in an environmental covenant described further in Section 6.0), there is no viable exposure risk for consumption of groundwater. However, in light of the enclosed structure which overlies the former dry cleaning area on the Site, Bullock evaluated potential risks related to vapor intrusion resulting from chlorinated VOCs detected in underlying groundwater.

In an effort to evaluate this pathway, Bullock entered the maximum detected concentrations of PCE (0.051 mg/L) and TCE (0.053 mg/L) detected in onsite groundwater (during the July 2025 sampling event) into EPA’s VISL calculator. This model assumes the most conservative exposure scenarios published by EPA which are not likely indicative of actual building conditions. Likewise, Bullock utilized an Estimated Increased Lifetime Cancer Risk (EILCR) of 1×10^{-5} and non-cancer risk Hazard Quotient (HQ) of 1.0. As summarized below and further detailed in **Appendix E**, the output from the VISL Calculator indicated a potential vapor intrusion risk associated with the maximum concentrations of PCE and TCE in onsite groundwater as follows:

COC (max. concentration):	EILCR:	Non-Cancer Risk (HQ):
PCE (0.051 mg/L) :	7.82 E-7	PCE: 0.211
TCE (0.053 mg/L):	7.14 E-6	TCE: 2.44
Total:	7.92 E-6	Total: 2.65
Target Value	1.0 E-5	1.0

As summarized above, the primary COC driving a potential vapor intrusion risk to future occupants of the Site is TCE. In light of these findings, Bullock incorporated certain Site-specific elements (e.g., depth to groundwater and underlying soil type) using the EPA-approved Johnson-Ettinger (J&E) Model for evaluating indoor vapor intrusion risks. Using the measured depth to groundwater (6.5 feet BLS) and the underlying soil type (silty clay) beneath the Site, the J&E Model predicts the indoor air concentrations based on these Site-specific variables (among others, if utilized) and the concentration of each COC in groundwater. As summarized in the table below (and detailed in **Appendix E**), use of the maximum PCE and TCE concentrations in groundwater results in predicted indoor air concentrations (within an enclosed structure) to be less than the residential screening values for indoor air established by EPA (November 2024 RSLs).



Predicted Indoor Air Concentrations Based on COC Concentrations in Groundwater		
COC	PCE	TCE
Maximum Groundwater Concentration (mg/L)	0.051 mg/L	0.053 mg/L
Predicted Indoor Air Concentration (micrograms/cubic meter, µg/m ³)	0.088 µg/m ³	0.074 µg/m ³
EPA Residential Screening Value (Indoor Air) (µg/m ³)	4.2 µg/m ³	0.21 µg/m ³

As indicated above, accounting for the depth to groundwater and soil type underlying the Site reduces the predicted vapor intrusion risk to concentrations below EPA-established ambient air RSLs for both a residential and commercial setting. As such, the maximum groundwater concentrations measured in onsite groundwater do not appear to pose a viable indoor vapor intrusion risk to future occupants of the Site. Finally, for comparison purposes, Bullock entered the maximum concentrations detected onsite soil vapor collected during the 2006 investigation into the VISL Calculator to evaluate potential vapor intrusion risks at that time. As indicated in **Appendix E**, the output from the VISL Calculator reported a potential cumulative vapor intrusion risk associated with the maximum concentrations of PCE and TCE in onsite soil vapor to be below the thresholds established by ADEM for multi-chemical exposure evaluations.

COC (max. concentration):	EILCR:	Non-Cancer Risk (HQ):
PCE (0.051 mg/L) :	1.56 E-6	PCE: 0.403
TCE (0.053 mg/L):	1.82 E-6	TCE: 0.417
Total:	3.37 E-6	Total: 0.82
Target Value	1.0 E-5	1.0

6.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the information presented in this Voluntary Property Assessment Report, investigations completed to date indicate certain chlorinated VOCs have been or remain present in onsite groundwater at concentrations exceeding applicable MCLs or tap water screening levels established by US EPA. The COCs in groundwater are the result of former dry cleaning operations conducted on the Site. The COCs in groundwater appear limited to the Site boundaries (with the exception of monitoring well DW-3 located immediately north of the Site boundary).

While the COCs noted in onsite groundwater are present at concentrations exceeding applicable drinking water standards or tap water screening values, the Site does not use onsite groundwater for potable purposes and the detected COCs appear limited to the central section of the Site with significantly reduced concentrations noted in the immediate vicinity. Finally, the viable exposure risks associated with the COCs in groundwater are limited to indoor and outdoor inhalation of vapors from subsurface sources; however, as illustrated in Section 5.0, there appears to be no viable indoor vapor intrusion pathway (based on the depth to groundwater and underlying soil type), which represents a viable exposure risk to future occupants of the Site. These findings are further validated by the soil vapor sampling results obtained on the Site in 2006 (noting likely attenuation of such concentrations in the intervening 19 years).

With these conclusions, further investigation does not appear warranted on the Site. As such, MAP Eastwood LLC will submit a draft environmental covenant for review and approval by ADEM. The



environmental covenant will include the following land use restrictions (which would be incorporated onto the deed):

1. The use of groundwater for potable or irrigation purposes from or on the Site is prohibited; and
2. Use of the Site shall be limited to commercial/industrial activities (i.e., residential housing, schools, daycares, hospitals, etc. shall be prohibited).

Following ADEM's review and approval of this Voluntary Property Assessment Report, MAP Eastwood LLC will deliver a draft environmental covenant to ADEM for review and approval. Following its approval of the draft environmental covenant, the approved Voluntary Property Assessment Report and draft environmental covenant will be placed on public notice for a period of 30 days before final approval of the conclusions and recommendations set forth herein.

Upon execution of the environmental covenant by ADEM and MAP Eastwood LLC, Bullock will deliver a Certification of Compliance to ADEM on behalf of MAP Eastwood LLC and request a Letter of Concurrence to formalize the conclusion of the Alabama VCP process.

7.0 REFERENCE MATERIALS

Bullock referenced the following sources during the preparation of this report.

1. USGS 7.5-minute Topographic Quadrangle *Irondale, Alabama*, dated 2020.
2. ESC Laboratory Analytical Data Report (Soil Vapor), dated February 8, 2006.
3. Terracon *November 2013 GWM Report and Alabama Risk-Based Corrective Action Evaluation* (January 15, 2014);
4. Terracon *June 2021 Groundwater Monitoring Report* (October 22, 2021).
5. Annual Drinking Water Quality Report from the City of Irondale.
6. GSA *Geologic Map of Alabama, Special Map 220*, dated 1988.
7. Soil Survey Staff, NRCS, USDA. Web Soil Survey. Available online at <http://websoilsurvey.nrcs.usda.gov>.
8. AEIRG (revised February 2017).
9. EPA Regional Screening Levels (November 2024).
10. Laboratory analytical reports from Sutherland Environmental Company, Inc.
11. EPA Vapor Intrusion Screening Level Calculator.
12. Analytical Solutions of Johnson & Ettinger, 1991.



TABLES



Table 1
Summary of Soil Gas Sampling (February 2, 2006)
PNC Bank Branch
1668 Montclair Road
Birmingham, Jefferson County, Alabama
Bullock Environmental, LLC Project #: 25-MAPD01

Sample ID	Collection Date	Chlorinated COCs (concentrations in $\mu\text{g}/\text{m}^3$)				
		cis-1,2-DCE	trans -1,2-DCE	PCE	TCE	Vinyl Chloride
SV-1	2/2/06	<1.6	<1.6	53	<2.1	<1.0
SV-2	2/2/06	4.8	2.5	560	29	<1.0
SV-3	2/2/06	4.8	2.5	64	2.8	<1.0
SV-4	2/2/06	<1.6	<1.6	27	<2.1	<1.0
SV-5	2/2/06	<1.6	<1.6	24	<2.1	<1.0
SV-6	2/2/06	<1.6	<1.6	24	<2.1	<1.0

NOTES:

$\mu\text{g}/\text{m}^3$ = micrograms per cubic meter

DCE=Dichloroethylene

TCE=Trichloroethylene

PCE=Tetrachloroethylene

Table 2
Summary of Water Table Elevations
PNC Bank Branch
1668 Montclair Road
Birmingham, Jefferson County, Alabama
Bullock Environmental, LLC Project #: 25-MAPD01

Monitoring Well	Date Measured	Top of Casing Elevation (ft amsl)	Measured Depth to Water (ft btoc)	Groundwater Elevation (ft amsl)
MW-1	9/3/2010	720.38	8.14	712.24
	4/9/2013		7.58	712.80
	4/25/2013		7.64	712.74
	8/22/2013		7.79	712.59
	11/22/2013		9.04	711.34
	7/20/2018		7.64	712.74
	12/12/2018		7.20	713.18
	6/28/2019		8.11	712.27
	6/26/2020		7.31	713.07
	6/25/2021		7.54	712.84
	7/15/2025		7.63	712.75
MW-2	9/3/2010	718.74	19.46	699.28
	4/9/2013		7.42	711.32
	4/25/2013		8.50	710.24
	8/22/2013		8.35	710.39
	11/22/2013		8.87	709.87
	7/20/2018		7.68	711.06
	12/12/2018		7.81	710.93
	6/28/2019		8.37	710.37
	6/26/2020		7.53	711.21
	6/25/2021		7.31	711.43
	7/15/2025		7.25	711.49
MW-3	9/3/2010	719.37	17.0	702.37
	4/9/2013		10.57	708.80
	4/25/2013		10.87	708.50
	8/22/2013		9.51	709.86
	11/22/2013		11.81	707.56
	7/20/2018		12.04	707.33
	12/12/2018		11.50	707.87
	6/28/2019		13.79	705.58
	6/26/2020		11.99	707.38
	6/25/2021		14.72	704.65
	7/15/2025		10.92	708.45

Table 2
Summary of Water Table Elevations
PNC Bank Branch
1668 Montclair Road
Birmingham, Jefferson County, Alabama
Bullock Environmental, LLC Project #: 25-MAPD01

Monitoring Well	Date Measured	Top of Casing Elevation (ft amsl)	Measured Depth to Water (ft btoc)	Groundwater Elevation (ft amsl)
MW-4	9/3/2010	720.61	8.41	712.20
	4/9/2013		7.43	713.18
	4/25/2013		7.45	713.16
	8/22/2013		7.31	713.30
	11/22/2013		8.11	712.50
	7/20/2018		6.60	714.01
	12/12/2018		5.99	714.62
	6/28/2019		6.39	714.22
	6/26/2020		6.08	714.53
	6/25/2021		6.09	714.52
	7/15/2025		6.40	714.21
MW-5	4/8/2013	719.06	9.01	710.05
	4/25/2013		6.4	712.66
	8/22/2013		6.37	712.69
	11/22/2013		6.34	712.72
	7/20/2018		6.35	712.71
	12/12/2018		6.31	712.75
	6/28/2019		6.41	712.65
	6/26/2020		6.29	712.77
	6/25/2021		6.38	712.68
			7/15/2025	
MW-6	4/9/2013	720.38	10.25	710.13
	4/25/2013		5.31	715.07
	8/22/2013		5.27	715.11
	11/22/2013		5.46	714.92
	7/20/2018		5.46	714.92
	12/12/2018		5.09	715.29
	6/28/2019		5.28	715.10
	6/26/2020		5.18	715.20
	6/25/2021		4.88	715.50
			7/15/2025	
MW-8	4/10/2013	720.88	9.31	711.57
	4/25/2013		8.49	712.39
	8/22/2013		8.57	712.31
	11/22/2013		9.91	710.97
	7/20/2018		8.37	712.51
	12/12/2018		7.82	713.06
	6/28/2019		8.83	712.05
	6/26/2020		7.94	712.94
	6/25/2021		8.11	712.77
			7/15/2025	

Table 2
Summary of Water Table Elevations
PNC Bank Branch
1668 Montclair Road
Birmingham, Jefferson County, Alabama
Bullock Environmental, LLC Project #: 25-MAPD01

Monitoring Well	Date Measured	Top of Casing Elevation (ft amsl)	Measured Depth to Water (ft btoc)	Groundwater Elevation (ft amsl)
DW-1	9/3/2010	719.38	7.06	712.32
	4/9/2013		6.59	712.79
	4/25/2013		6.58	712.80
	8/22/2013		6.79	712.59
	11/22/2013		8.14	711.24
	7/20/2018		6.59	712.79
	12/12/2018		6.86	712.52
	6/28/2019		6.95	712.43
	6/26/2020		6.46	712.92
	6/25/2021		6.23	713.15
	7/15/2025		76.45	642.93
DW-2	4/10/2013	720.40	54.78	665.62
	4/25/2013		55.02	665.38
	8/22/2013		54.69	665.71
	11/22/2013		54.71	665.69
	7/20/2018		45.50	674.90
	12/12/2018		51.96	668.44
	6/28/2019		52.97	667.43
	6/26/2020		53.15	667.25
	6/25/2021		53.80	666.60
			7/15/2025	
DW-3	4/10/2013	720.47	51.06	669.41
	4/25/2013		8.42	712.05
	11/22/2013		9.73	710.74
	7/20/2018		8.78	711.69
	12/12/2018		6.93	713.54
	6/28/2019		7.31	713.16
	6/26/2020		6.78	713.69
	6/25/2021		6.51	713.96
			7/15/2025	
DW-4	4/10/2013	718.45	54.83	663.62
	4/25/2013		>55	<663.45
	8/22/2013		44.33	674.12
	11/22/2013		46.24	672.21
	7/20/2018		0.00	718.45
	12/12/2018		0.00	718.45
	6/28/2019		0.20	718.25
	6/26/2020		0.10	718.35
	6/25/2021		0.52	717.93
			7/15/2025	

Table 2
Summary of Water Table Elevations
PNC Bank Branch
1668 Montclair Road
Birmingham, Jefferson County, Alabama
Bullock Environmental, LLC Project #: 25-MAPD01

Monitoring Well	Date Measured	Top of Casing Elevation (ft amsl)	Measured Depth to Water (ft btoc)	Groundwater Elevation (ft amsl)
DW-1-D	4/10/2013	719.38	77.24	642.14
	4/25/2013		44.43	674.95
	8/22/2013		7.08	712.30
	11/22/2013		8.27	711.11
	7/20/2018		6.60	712.78
	12/12/2018		5.98	713.40
	6/28/2019		6.91	712.47
	6/26/2020		6.56	712.82
	6/25/2021		6.35	713.03
	7/15/2025		6.35	713.03

ft amsl = feet above mean sea level ft btoc = feet below top of casing

Table 3
Summary of Groundwater Analytical Results
PNC Bank Branch
1668 Montclair Road
Birmingham, Jefferson County, Alabama
Bullock Environmental, LLC Project #: 25-MAPD01

Sample ID	Collection Date	Chlorinated COCs								Petroleum COCs							Other
		cis-1,2-DCE	trans -1,2-DCE	PCE	TCE	1,1,1-TCA	1,1-DCA	1,1-DCE	Vinyl Chloride	Benzene	Ethylbenzene	MTBE	Toluene	Xylenes	1,2,3-TMB	1,2,4-TMB	Acetone
EPA MCL		0.07	0.1	0.005	0.005	0.2	NL	0.007	0.002	--	0.7	NL	1.0	10	NL	NL	NL
EPA RSL		0.0036	0.0068	0.0041	0.00028	0.8	0.0028	0.028	0.000019	--	0.0015	0.014	0.11	0.019	0.0055	0.0056	1.4
DW-2	11/22/2013	--	--	0.0011	0.0014	--	--	--	--	--	--	--	--	--	--	--	--
	7/20/2018	0.0186	--	0.0114	0.0133	--	--	--	--	--	--	--	--	--	--	--	--
	12/12/2018	0.0122	--	0.0127	0.0148	--	--	--	--	--	--	--	--	--	--	--	--
	6/28/2019	0.00698	--	0.0114	0.0131	--	--	--	--	--	--	--	--	--	--	--	--
	6/26/2020	0.00539	--	0.00879	0.0105	--	--	--	--	--	--	--	--	--	--	--	--
	6/25/2021	0.00335	--	0.00828	0.00914	--	--	--	--	--	--	--	--	--	--	--	--
	7/15/2025	--	--	0.00600	0.00700	--	--	--	--	--	--	--	--	--	--	--	--
DW-3	4/10/2013	0.0025	--	0.0032	--	--	--	--	--	--	--	0.0021	--	--	--	--	--
	11/22/2013	0.0027	--	0.0029	0.0025	--	--	--	--	--	--	0.0020	--	--	--	--	--
	7/20/2018	0.00911	--	0.00354	0.00508	--	--	--	--	--	--	--	--	--	--	--	--
	12/12/2018	0.0113	--	0.00915	0.00427	--	--	--	--	--	--	0.00132	0.00307	--	--	--	--
	6/28/2019	0.00502	--	0.0168	0.00322	--	--	--	--	--	--	0.00109	--	--	--	--	--
	6/26/2020	0.00303	--	0.0161	0.00450	--	--	--	--	--	--	--	--	--	--	--	--
	6/25/2021	0.00260	--	0.0331	0.00463	--	--	--	--	--	--	--	--	--	--	--	--
	7/15/2025	--	--	0.0140	--	--	--	--	--	--	--	--	--	--	--	--	--
DW-4	8/22/2013	0.0011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/22/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/20/2018	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/12/2018	0.00174	--	--	--	--	--	0.00105	--	0.00113	--	0.0115	0.00603	--	0.00183	--	--
	6/28/2019	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/26/2020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/25/2021	--	--	0.00142	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/15/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DW-1-D	4/10/2013	--	--	0.0033	0.0011	--	--	--	0.0012	--	--	--	--	--	--	--	0.33
	8/22/2013	--	--	0.098	0.0078	--	--	--	--	--	--	--	--	--	--	--	--
	11/22/2013	--	--	0.086	0.0073	--	--	--	--	--	--	--	--	--	--	--	--
	7/20/2018	0.00115	0.00213	0.00256	0.0292	--	--	--	--	--	--	--	--	--	--	--	--
	12/12/2018	--	--	0.0449	0.0155	--	--	--	--	--	--	0.00216	--	--	--	--	--
	6/28/2019	0.00173	0.00213	0.0276	0.0491	--	--	--	--	--	--	--	--	--	--	--	--
	6/26/2020	0.00491	0.0104	0.0355	0.0578	0.00292	0.00133	0.00176	--	--	--	--	--	--	--	--	--
	6/25/2021	0.00147	0.00129	0.0909	0.0265	--	--	--	--	--	--	--	--	--	--	--	--
	7/15/2025	--	0.016	0.0510	0.053	--	--	--	--	--	--	--	--	--	--	--	--

All results in milligrams per liter (mg/L).

Only detected constituents are included in table.

• Indicates Duplicate

COC - Chemical of Concern

EPA RSL/MCL - EPA Regional Screening Level/Maximum Contaminant Level (May 2021 THQ= 0.1; RSL used when no MCL available) NL - None Listed

Highlighted cells = concentrations exceeding applicable MCLs or Tap Water RSLs

DCE=Dichloroethylene

TCA= Trichloroethane

MTBE=Methyl-tertiary Butyl Ether

PCE=Tetrachloroethylene

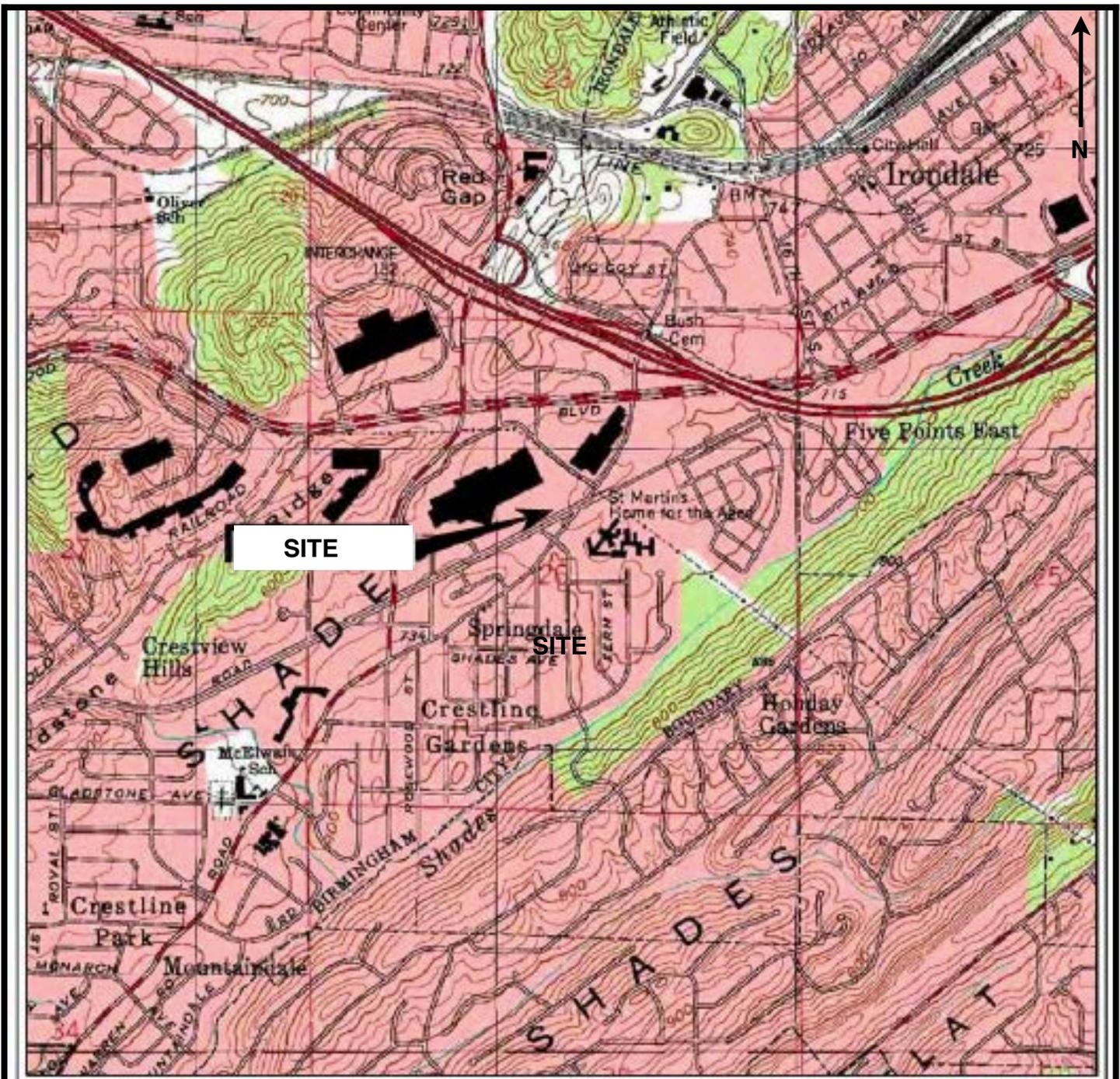
DCA=Dichloroethane

TCE=Trichloroethylene

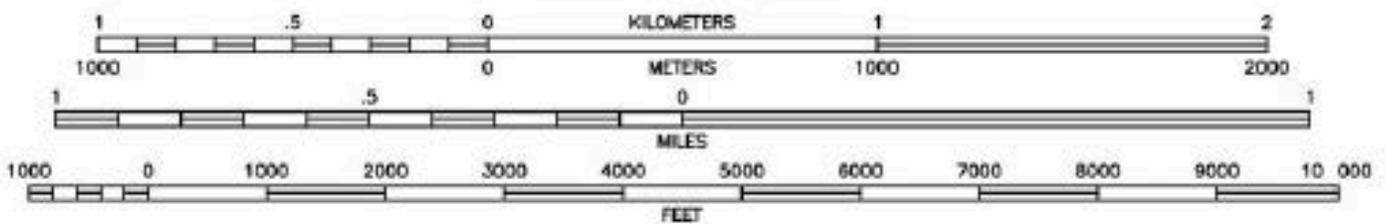
TMB=Trimethylbenzene

FIGURES





SCALE 1:24 000



PROJECT
VOLUNTARY PROPERTY ASSESSMENT REPORT
 PNC BANK BRANCH
 (FORMER ALADDIN CLEANERS & LAUNDRY)
 1668 MONTCLAIR ROAD
 BIRMINGHAM, JEFFERSON COUNTY, ALABAMA
 BULLOCK ENVIRONMENTAL, LLC PROJECT #: 25-MAPD01

FIGURE 1
 SITE LOCATION MAP
 USGS 7.5-MINUTE
 TOPOGRAPHIC QUADRANGLE
 IRONDALE, ALABAMA,
 DATED 2020
 SCALE: AS SHOWN

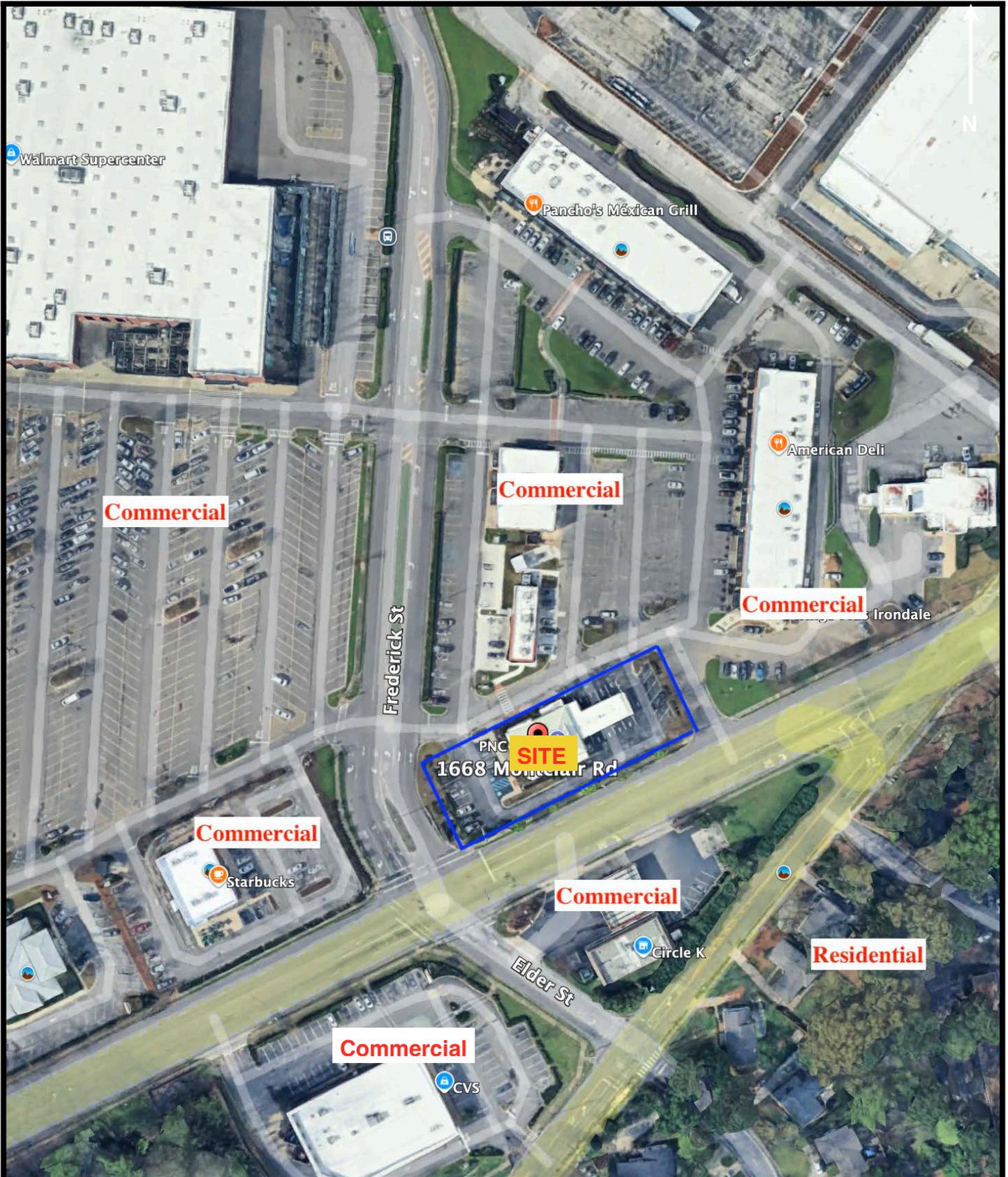


PROJECT
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1668 MONTCLAIR ROAD
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BULLOCK ENVIRONMENTAL, LLC PROJECT #: 25-MAPD01

FIGURE 2

SITE PLAN

SCALE: 1" = APPROX. 25 FEET



PROJECT

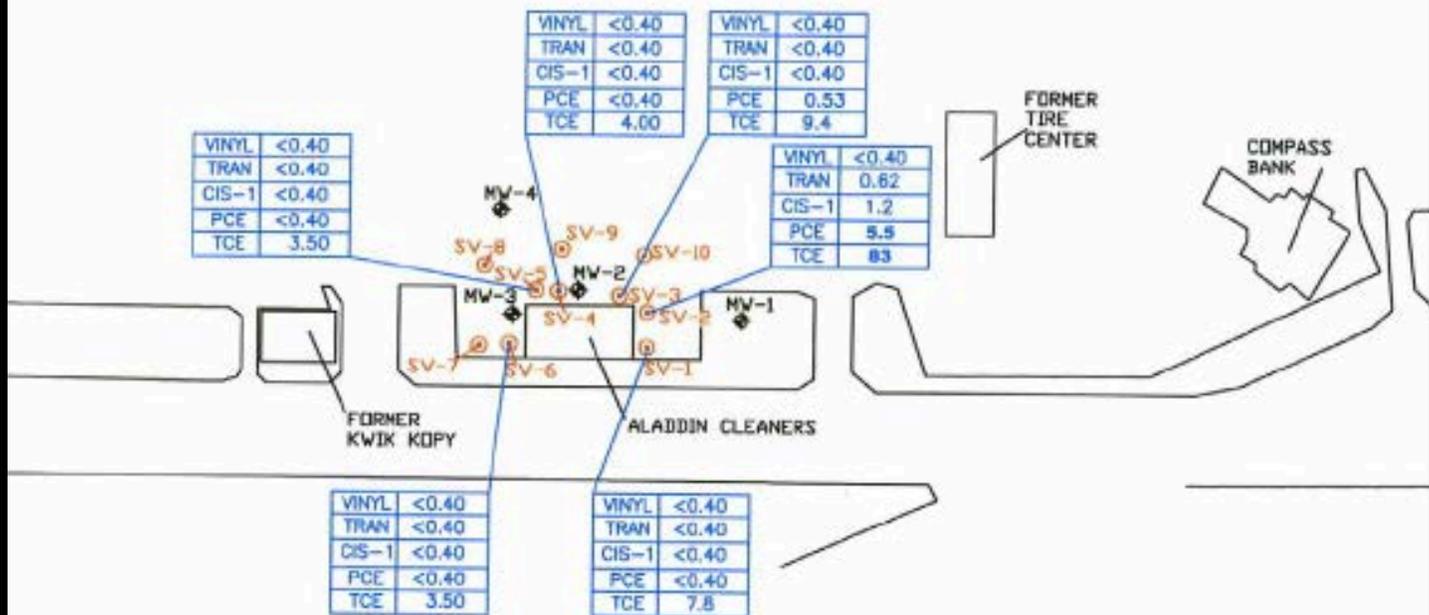
V VOLUNTARY PROPERTY ASSESSMENT REPORT
 PNC BANK BRANCH
 (FORMER ALADDIN CLEANERS & LAUNDRY)
 1668 MONTCLAIR ROAD
 BIRMINGHAM, JEFFERSON COUNTY, ALABAMA
 BULLOCK ENVIRONMENTAL, LLC PROJECT #: 25-MAPD01

FIGURE 3

AREA LAND USE MAP

SCALE: 1"= APPROX. 150'





- LEGEND**
- ◆ MONITORING WELL LOCATIONS
 - ⊙ SOIL GAS WELL LOCATIONS
 - CIS-1 CIS-1,2-DCE
 - DCE DICHLORDETHYLENE
 - PCE TETRACHLORDETHYLENE
 - TCE TRICHLORDETHYLENE
 - TRAN TRANS-1,2-DCE
 - VINYL VINYL CHLORIDE
 - M INDOOR VAPOR INTRUSION GUIDANCE
 - BOLD** RESULTS ABOVE THE IVI TARGET LEVEL

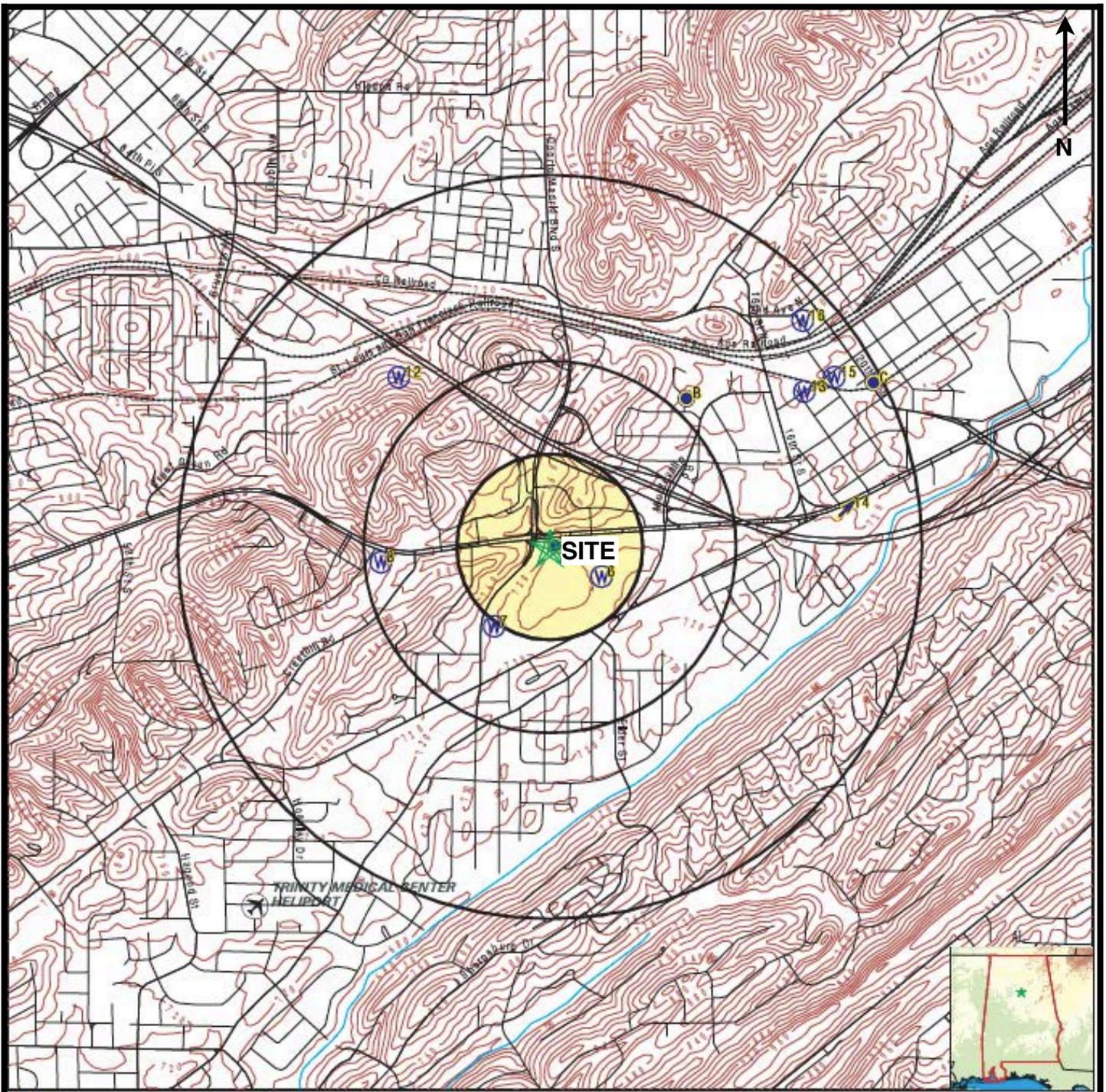
Concentrations listed in PPBV. See **Table 3** for concentrations in $\mu\text{g}/\text{m}^3$. Attachment 2 includes laboratory results and Vapor Intrusion Screening Level Calculator output.



PROJECT

VOLUNTARY PROPERTY ASSESSMENT REPORT
 PNC BANK BRANCH
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 1668 MONTCLAIR ROAD
 BIRMINGHAM, JEFFERSON COUNTY, ALABAMA
 BULLOCK ENVIRONMENTAL, LLC PROJECT #: 25-MAPD01

FIGURE 4
 SITE PLAN WITH SOIL VAPOR SAMPLING LOCATIONS (2006)

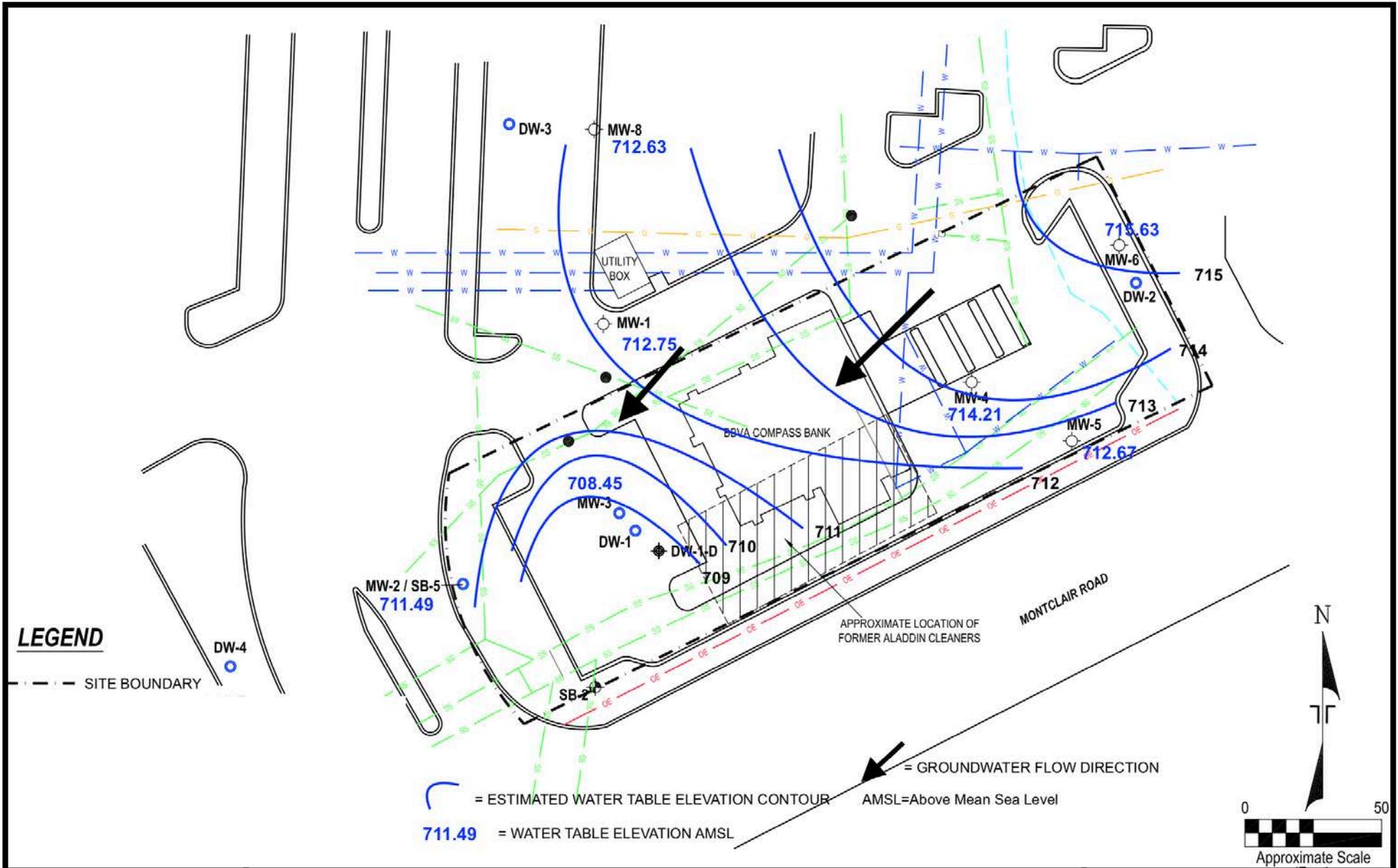


- County Boundary
- Major Roads
- Contour Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Oil, gas or related wells



PROJECT
VOLUNTARY PROPERTY ASSESSMENT REPORT
 PNC BANK BRANCH
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 1668 MONTCLAIR ROAD
 BIRMINGHAM, JEFFERSON COUNTY, ALABAMA
 BULLOCK ENVIRONMENTAL, LLC PROJECT #: 25-MAPD01

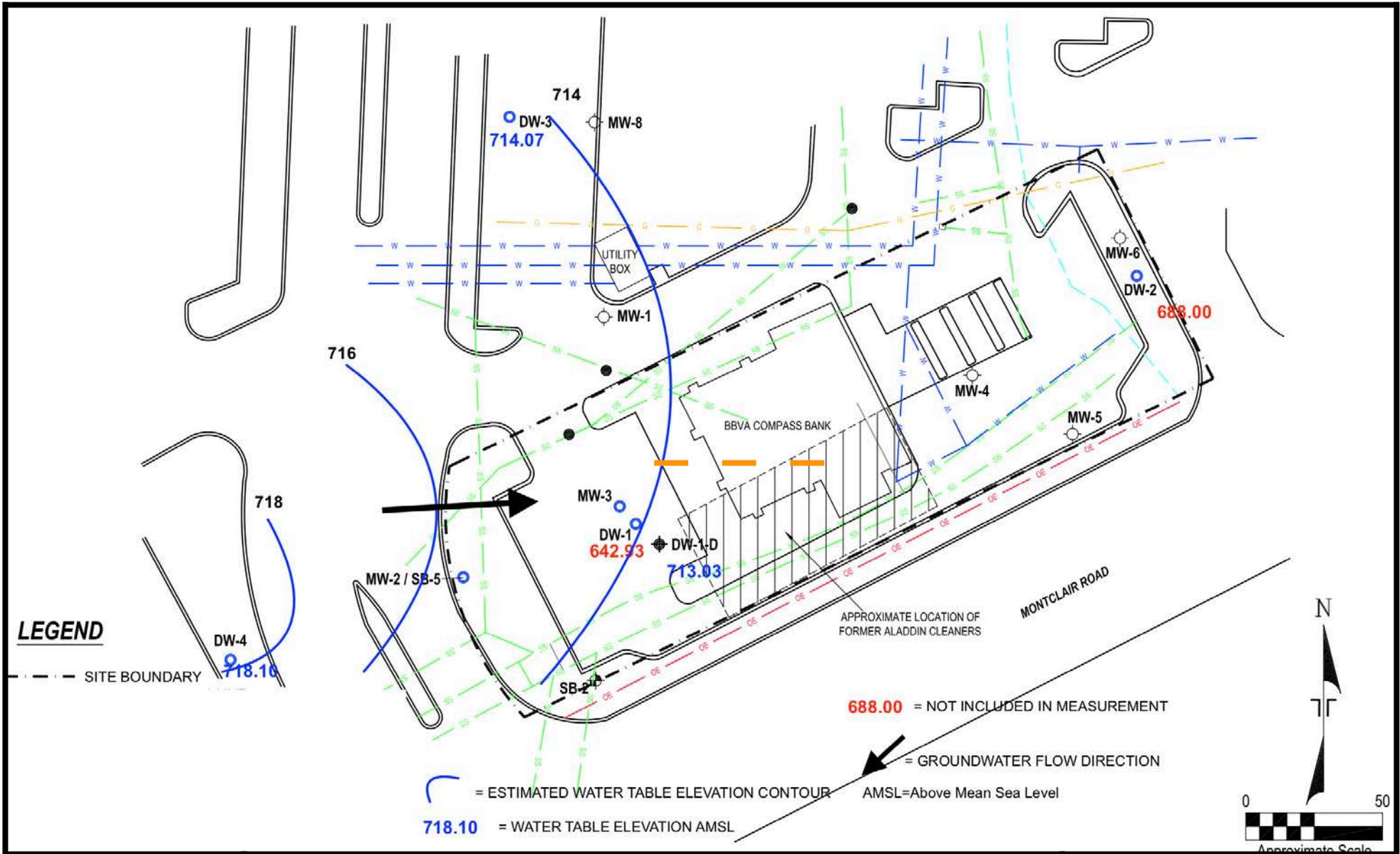
FIGURE 5
 WATER WELL INVENTORY
 MAP
 SCALE: AS SHOWN



PROJECT

VOLUNTARY PROPERTY ASSESSMENT REPORT
PNC BANK BRANCH
 (FORMER ALADDIN CLEANERS & LAUNDRY)
 1668 MONTCLAIR ROAD
 BIRMINGHAM, JEFFERSON COUNTY, ALABAMA
 BULLOCK ENVIRONMENTAL, LLC PROJECT #: 25-MAPD01

FIGURE 6A
 POTENTIOMETRIC SURFACE MAP
 SHALLOW GROUNDWATER
 (JULY 15, 2025)



PROJECT

VOLUNTARY PROPERTY ASSESSMENT REPORT

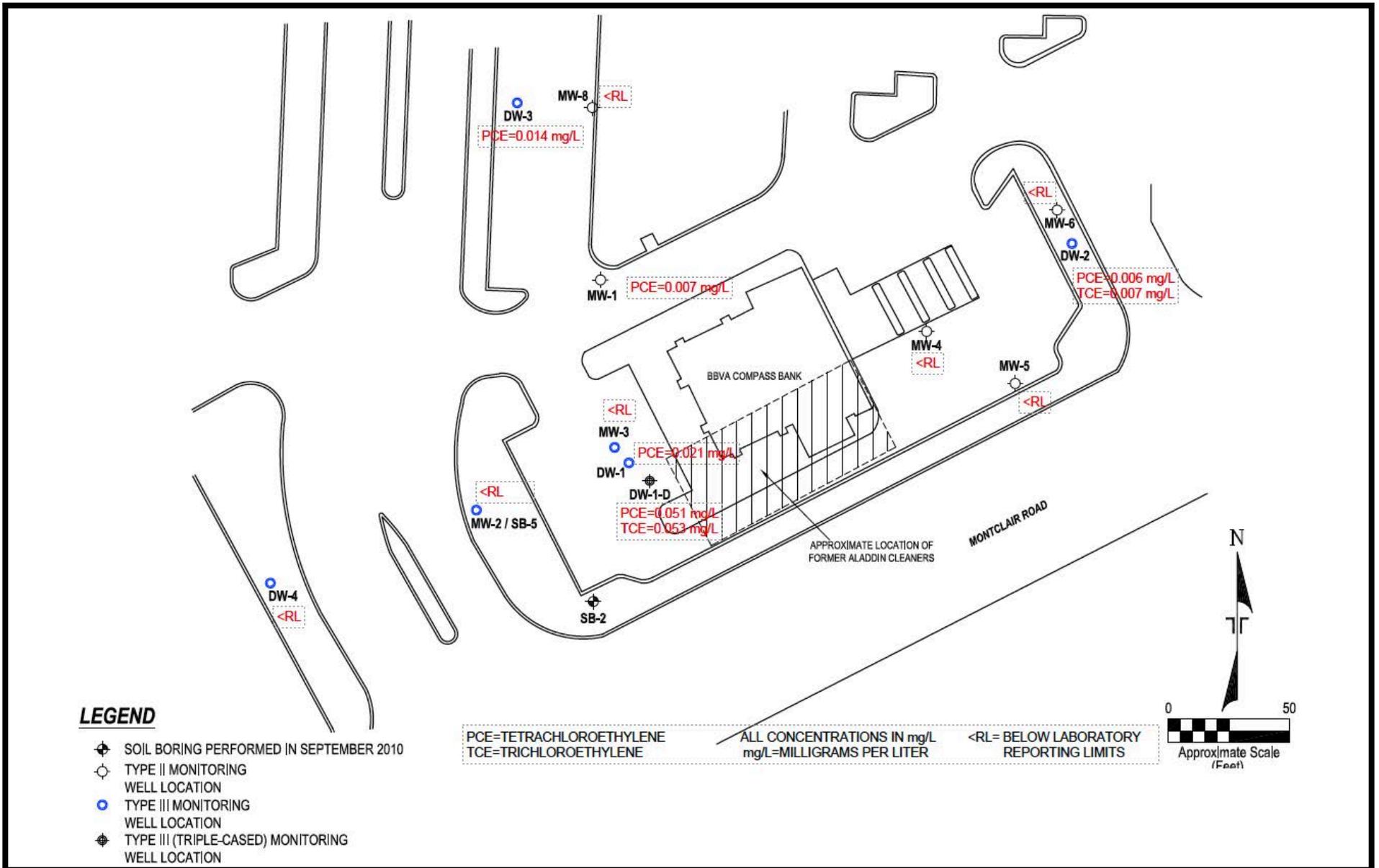
PNC BANK BRANCH
 (FORMER ALADDIN CLEANERS & LAUNDRY)
 1668 MONTCLAIR ROAD

BIRMINGHAM, JEFFERSON COUNTY, ALABAMA
 BULLOCK ENVIRONMENTAL, LLC PROJECT #: 25-MAPD01

FIGURE 6B

POTENTIOMETRIC SURFACE MAP
 DEEP GROUNDWATER
 (JULY 15, 2025)





PROJECT

VOLUNTARY PROPERTY ASSESSMENT REPORT
PNC BANK BRANCH
 (FORMER ALADDIN CLEANERS & LAUNDRY)
 1668 MONTCLAIR ROAD
 BIRMINGHAM, JEFFERSON COUNTY, ALABAMA
 BULLOCK ENVIRONMENTAL, LLC PROJECT #: 25-MAPD01

FIGURE 7
 CHEMICALS OF CONCERN
 IN GROUNDWATER
 (JULY 15, 2025).

APPENDIX A
PREVIOUS SITE INVESTIGATION REPORTS



2006 Laboratory Analytical Data Report Soil Vapor



ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Doug Bullock
Gallet & Associates, Inc. - B. AL.
320 Beacon Parkway West
Birmingham, AL 35209

February 08, 2006

Date Received : February 03, 2006
Description : Eastwood Mall VPAP
Sample ID : SV-1
Collected By : Jason Gregory
Collection Date : 02/02/06 07:45

ESC Sample # : L232205-01

Site ID :

Project # : 05WASAI0101E 02E

Parameter	Mol Wght	Result (ppbv)	ug/m3	Method	Date
Volatile Organics					
Vinyl chloride	62.5	< 0.40	< 1.0	TO-15	02/03/06
trans-1,2-Dichloroethene	96.9	< 0.40	< 1.6	TO-15	02/03/06
cis-1,2-Dichloroethene	96.9	< 0.40	< 1.6	TO-15	02/03/06
Trichloroethylene	131	< 0.40	< 2.1	TO-15	02/03/06
Tetrachloroethylene	166	7.80	53.	TO-15	02/03/06


Jimmy Hunt, ESC Representative

Det. Limit - Practical Quantitation Limit (PQL)

Laboratory Certification Numbers:
AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ -0612, MN - 047-999-395, NY - 11742, NJ - 81002, WI - 998093910

Note:

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Doug Bullock
Gallet & Associates, Inc. - B. AL.
320 Beacon Parkway West
Birmingham, AL 35209

February 08, 2006

Date Received : February 03, 2006
Description : Eastwood Mall VPAP
Sample ID : SV-2
Collected By : Jason Gregory
Collection Date : 02/02/06 07:55

ESC Sample # : L232205-02

Site ID :

Project # : 05WASAI0101E 02E

Parameter	Mol Wght	Result(ppbv)	ug/m3	Method	Date
Volatile Organics					
Vinyl chloride	62.5	< 0.40	< 1.0	TO-15	02/06/06
trans-1,2-Dichloroethene	96.9	0.620	2.5	TO-15	02/06/06
cis-1,2-Dichloroethene	96.9	1.20	4.8	TO-15	02/06/06
Trichloroethylene	131	5.50	29.	TO-15	02/06/06
Tetrachloroethylene	166	83.0	560	TO-15	02/06/06


Jimmy Hunt, ESC Representative

Det. Limit - Practical Quantitation Limit (PQL)

Laboratory Certification Numbers:

AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233
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REPORT OF ANALYSIS

Mr. Doug Bullock
Gallet & Associates, Inc. - B. AL.
320 Beacon Parkway West
Birmingham, AL 35209

February 08, 2006

Date Received : February 03, 2006
Description : Eastwood Mall VPAP
Sample ID : SV-3
Collected By : Jason Gregory
Collection Date : 02/02/06 08:02

ESC Sample # : L232205-03

Site ID :

Project # : 05WASAI0101E 02E

Parameter	Mol Wght	Result (ppbv)	ug/m3	Method	Date
Volatile Organics					
Vinyl chloride	62.5	< 0.40	< 1.0	TO-15	02/06/06
trans-1,2-Dichloroethene	96.9	< 0.40	< 1.6	TO-15	02/06/06
cis-1,2-Dichloroethene	96.9	< 0.40	< 1.6	TO-15	02/06/06
Trichloroethylene	131	0.530	2.8	TO-15	02/06/06
Tetrachloroethylene	166	9.40	64.	TO-15	02/06/06


Jimmy Hunt ESC Representative

Det. Limit - Practical Quantitation Limit (PQL)

Laboratory Certification Numbers:

AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, NJ - 81002, WI - 998093910

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REPORT OF ANALYSIS

Mr. Doug Bullock
Gallet & Associates, Inc. - B. AL.
320 Beacon Parkway West
Birmingham, AL 35209

February 08, 2006

Date Received : February 03, 2006
Description : Eastwood Mall VPAP
Sample ID : SV-4
Collected By : Jason Gregory
Collection Date : 02/02/06 08:08

ESC Sample # : L232205-04

Site ID :

Project # : 05WASAI0101E 02E

Parameter	Mol Wght	Result (ppbv)	ug/m3	Method	Date
Volatile Organics					
Vinyl chloride	62.5	< 0.40	< 1.0	TO-15	02/06/06
trans-1,2-Dichloroethene	96.9	< 0.40	< 1.6	TO-15	02/06/06
cis-1,2-Dichloroethene	96.9	< 0.40	< 1.6	TO-15	02/06/06
Trichloroethylene	131	< 0.40	< 2.1	TO-15	02/06/06
Tetrachloroethylene	166	4.00	27.	TO-15	02/06/06


Jimmy Hunt ESC Representative

Det. Limit - Practical Quantitation Limit (PQL)

Laboratory Certification Numbers:
AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
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REPORT OF ANALYSIS

Mr. Doug Bullock
Gallet & Associates, Inc. - B. AL.
320 Beacon Parkway West
Birmingham, AL 35209

February 08, 2006

Date Received : February 03, 2006
Description : Eastwood Mall VPAP
Sample ID : SV-5
Collected By : Jason Gregory
Collection Date : 02/02/06 08:16

ESC Sample # : L232205-05

Site ID :

Project # : 05WASAI0101E 02E

Parameter	Mol Wght	Result(ppbv)	ug/m3	Method	Date
Volatile Organics					
Vinyl chloride	62.5	< 0.40	< 1.0	TO-15	02/06/06
trans-1,2-Dichloroethene	96.9	< 0.40	< 1.6	TO-15	02/06/06
cis-1,2-Dichloroethene	96.9	< 0.40	< 1.6	TO-15	02/06/06
Trichloroethylene	131	< 0.40	< 2.1	TO-15	02/06/06
Tetrachloroethylene	166	3.50	24.	TO-15	02/06/06


Jimmy Hunt, ESC Representative

Det. Limit - Practical Quantitation Limit (PQL)

Laboratory Certification Numbers:
AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233
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REPORT OF ANALYSIS

Mr. Doug Bullock
Gallet & Associates, Inc. - B. AL.
320 Beacon Parkway West
Birmingham, AL 35209

February 08, 2006

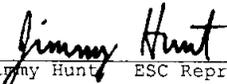
Date Received : February 03, 2006
Description : Eastwood Mall VPAP
Sample ID : SV-6
Collected By : Jason Gregory
Collection Date : 02/02/06 08:24

ESC Sample # : L232205-06

Site ID :

Project # : 05WASAI0101E 02E

Parameter	Mol Wght	Result(ppbv)	ug/m3	Method	Date
Volatile Organics					
Vinyl chloride	62.5	< 0.40	< 1.0	TO-15	02/06/06
trans-1,2-Dichloroethene	96.9	< 0.40	< 1.6	TO-15	02/06/06
cis-1,2-Dichloroethene	96.9	< 0.40	< 1.6	TO-15	02/06/06
Trichloroethylene	131	< 0.40	< 2.1	TO-15	02/06/06
Tetrachloroethylene	166	3.50	24.	TO-15	02/06/06


Jimmy Hunt, ESC Representative

Det. Limit - Practical Quantitation Limit (PQL)

Laboratory Certification Numbers:
AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233
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Summary of Remarks For Samples Printed
02/08/06 at 14:31:17

TSR Signing Reports: 350
R5 - Desired TAT

Report in ppm - jeh 7/12/05; Unless one test is specifically requested, TPH 8015 = GRO & DRO -
jeh 8/1/05

Sample: L232205-01 Account: GALLET Received: 02/03/06 09:00 Due Date: 02/09/06 00:00 RPT Date: 02/08/06 13:40
Sample: L232205-02 Account: GALLET Received: 02/03/06 09:00 Due Date: 02/09/06 00:00 RPT Date: 02/08/06 13:40
Sample: L232205-03 Account: GALLET Received: 02/03/06 09:00 Due Date: 02/09/06 00:00 RPT Date: 02/08/06 13:40
Sample: L232205-04 Account: GALLET Received: 02/03/06 09:00 Due Date: 02/09/06 00:00 RPT Date: 02/08/06 13:40
Sample: L232205-05 Account: GALLET Received: 02/03/06 09:00 Due Date: 02/09/06 00:00 RPT Date: 02/08/06 13:40
Sample: L232205-06 Account: GALLET Received: 02/03/06 09:00 Due Date: 02/09/06 00:00 RPT Date: 02/08/06 13:40

Variable	Resident Air Default Value	Site-Specific Value
AF _{gw} (Attenuation Factor Groundwater) unitless	0.001	0.001
AF _{ee} (Attenuation Factor Sub-Slab) unitless	0.03	0.03
ED _{res} (exposure duration) years	26	26
ED _{n,1} (mutagenic exposure duration first phase) years	2	2
ED _{2,6} (mutagenic exposure duration second phase) years	4	4
ED _{6,16} (mutagenic exposure duration third phase) years	10	10
ED _{16,26} (mutagenic exposure duration fourth phase) years	10	10
EF _{res} (exposure frequency) days/year	350	350
EF _{n,1} (mutagenic exposure frequency first phase) days/year	350	350
EF _{2,6} (mutagenic exposure frequency second phase) days/year	350	350
EF _{6,16} (mutagenic exposure frequency third phase) days/year	350	350
EF _{16,26} (mutagenic exposure frequency fourth phase) days/year	350	350
ET _{res} (exposure time) hours/day	24	24
ET _{n,1} (mutagenic exposure time first phase) hours/day	24	24
ET _{2,6} (mutagenic exposure time second phase) hours/day	24	24
ET _{6,16} (mutagenic exposure time third phase) hours/day	24	24
ET _{16,26} (mutagenic exposure time fourth phase) hours/day	24	24
THQ (target hazard quotient) unitless	0.1	0.1
LT (lifetime) years	70	70
TR (target risk) unitless	1.0E-06	1.0E-06

2006 VISL Calculator Output

Resident Vapor Intrusion Screening Levels (VISL)

Key: I = IRIS; P = PPRTV; O = OPP; A = ATSDR; C = Cal EPA; X = PPRTV Screening Level; H = HEAST; D = DWSHA; W = TEF applied; E = RPF applied; U = user provided; G = see RSL User's Guide Section 5; CA = cancer; NC = noncancer.

Chemical	CAS Number	Does the chemical meet the definition for volatility? (HLC>1E-5 or VP>1)	Does the chemical have inhalation toxicity data? (IUR and/or RfC)	Is Chemical Sufficiently Volatile and Toxic to Pose Inhalation Risk Via Vapor Intrusion from Soil Source? ($C_{vp} > C_{ia,Target}$)	Is Chemical Sufficiently Volatile and Toxic to Pose Inhalation Risk Via Vapor Intrusion from Groundwater Source? ($C_{hc} > C_{ia,Target}$)	Target Indoor Air Concentration (TCR=1E-06 or THQ=0.1) $MIN(C_{ia,c}, C_{ia,nc})$ ($\mu\text{g}/\text{m}^3$)	Toxicity Basis	Target Sub-Slab and Near-source Soil Gas Concentration (TCR=1E-06 or THQ=0.1) $C_{sg,Target}$ ($\mu\text{g}/\text{m}^3$)	Target Groundwater Concentration (TCR=1E-06 or THQ=0.1) $C_{gw,Target}$ ($\mu\text{g}/\text{L}$)
Tetrachloroethylene	127-18-4	Yes	Yes	Yes	Yes	4.17E+00	NC	1.39E+02	5.76E+00
Trichloroethylene	79-01-6	Yes	Yes	Yes	Yes	2.09E-01	NC	6.95E+00	5.18E-01

Is Target Groundwater Concentration < MCL? ($C_{gw} < \text{MCL}$)	Pure Phase Vapor Concentration C_{vp} (25 °C) ($\mu\text{g}/\text{m}^3$)	Maximum Groundwater Vapor Concentration C_{hc} ($\mu\text{g}/\text{m}^3$)	Temperature for Maximum Groundwater Vapor Concentration (°C)	Lower Explosive Limit LEL (% by volume)	LEL Ref	IUR ($\mu\text{g}/\text{m}^3$) ⁻¹	IUR Ref	RfC (mg/m^3)	RfC Ref	Mutagenic Indicator	Carcinogenic VISL TCR=1E-06 $C_{ia,c}$ ($\mu\text{g}/\text{m}^3$)	Noncarcinogenic VISL THQ=0.1 $C_{ia,nc}$ ($\mu\text{g}/\text{m}^3$)
No (5)	1.65E+08	1.49E+08	25	-		2.60E-07	I	4.00E-02	I	No	1.08E+01	4.17E+00
Yes (5)	4.88E+08	5.15E+08	25	8.00	CRC	4.10E-06	I	2.00E-03	I	Mut	4.78E-01	2.09E-01

Resident Vapor Intrusion Risk

Chemical	CAS Number	Site Sub-Slab and Exterior Soil Gas Concentration C_{sg} ($\mu\text{g}/\text{m}^3$)	Site Indoor Air Concentration C_{ia} ($\mu\text{g}/\text{m}^3$)	VI Carcinogenic Risk CDI ($\mu\text{g}/\text{m}^3$)	VI Carcinogenic Risk CR	VI Hazard CDI (mg/m^3)	VI Hazard HQ	IUR (ug/m^3) ⁻¹	IUR Ref
Tetrachloroethylene	127-18-4	560	1.68E+01	5.98E+00	1.56E-06	1.61E-02	4.03E-01	2.60E-07	I
Trichloroethylene	79-01-6	29	8.70E-01	4.44E-01	1.82E-06	8.34E-04	4.17E-01	4.10E-06	I
<i>*Sum</i>		-	-	-	3.37E-06	-	8.20E-01	-	

RfC (mg/m^3)	RfC Ref	Temperature (°C)\ for Groundwater Vapor Concentration	Mutagen?
4.00E-02	I	25	No
2.00E-03	I	25	Mut
-		-	

Chemical Properties

Chemical	CAS Number	Does the chemical meet the definition for volatility? (HLC>1E-5 or VP>1)	Does the chemical have inhalation toxicity data? (IUR and/or RfC)	MW	MW Ref	Vapor Pressure VP (mm Hg)	VP Ref	S (mg/L)	S Ref	MCL (ug/L)
Tetrachloroethylene	127-18-4	Yes	Yes	165.83	PHYSPROP	1.85E+01	PHYSPROP	2.06E+02	PHYSPROP	5
Trichloroethylene	79-01-6	Yes	Yes	131.39	PHYSPROP	6.90E+01	PHYSPROP	1.28E+03	PHYSPROP	5

Henry's Law Constant (atm·m ³ /mole)	Henry's Law Constant (unitless)	H ⁺ and HLC Ref	Henry's Law Constant Used in Calcs (unitless)	Normal Boiling Point BP (K)	BP Ref	Critical Temperature T _c (K)	T _c Ref	Enthalpy of vaporization at the normal boiling point ΔH _{v,b} (cal/mol)	ΔH _{v,b} Ref	Lower Explosive Limit LEL (% by volume)	LEL Ref
1.77E-02	7.24E-01	PHYSPROP	7.24E-01	394.45	PHYSPROP	6.20E+02	YAWS	8288.72	CRC	-	
9.85E-03	4.03E-01	PHYSPROP	4.03E-01	360.35	PHYSPROP	5.71E+02	YAWS	7504.78	CRC	8.00	CRC

Temple, Bonnie

To: Land Division File Clerk
Subject: FW: Aladdin Montclair ARBCA
Attachments: Aladdin Montclair ARBCA_FIGURES.pdf; Aladdin Montclair ARBCA_TABLES.pdf

Pam, the Figures and Tables need to be replaced in the document I am putting in the box.

Terracon: **November 2013 GWM Report and ARBCA CP5**
30228
462-9350
073
CORR
1/15/2014

Bonnie L. Temple
Environmental Services Branch
Assessment Section
Alabama Department of Environmental Management
1400 Coliseum Blvd
Montgomery, AL 36110-2059
Office: (334) 271-7703
Fax: (334) 279-3050

adem.alabama.gov



Mission: Assure for all citizens of the state a safe, healthful and productive environment

From: Noland III, Trey G [mailto:wgnoland@terracon.com]
Sent: Thursday, January 16, 2014 2:50 PM
To: Temple, Bonnie
Subject: RE: Aladdin Montclair ARBCA

The hard copy should have been delivered by now. I was speaking to Cary earlier and he said he received his copy. The only problem is some of the Tables and Figures that are formatted to be 11x17 printed out on 8x11 and are tough to read in the hard copy. I have attached the Tables and Figures to this email. They are 11MB, hopefully they will come through. Thanks.

Trey

From: Temple, Bonnie [mailto:BLT@adem.state.al.us]
Sent: Thursday, January 16, 2014 2:46 PM
To: Noland III, Trey G
Subject: RE: Aladdin Montclair ARBCA

I haven't been able to get into the system. Is the report on a CD or hard copy? Can you send the changes by email?
Thanks.

Bonnie L. Temple
Environmental Services Branch

November 2013 GWM Report and Alabama Risk-Based Corrective Action Evaluation (CP#5)

Aladdin Cleaners and Laundry, Inc.
1668 Montclair Road
Birmingham, Jefferson County, Alabama
DERTF No.: 462-9350
January 15, 2014
Terracon Project No. E1137127



JAN 16 2014

Prepared for:
Aladdin Cleaners and Laundry, Inc.
Birmingham, Alabama

Prepared by:
Terracon Consultants, Inc.
Birmingham, Alabama

Offices Nationwide
Employee-Owned

Established in 1965
terracon.com

Terracon

Geotechnical ■ Environmental ■ Construction Materials ■ Facilities

Terracon

January 15, 2014

Aladdin Cleaners & Laundry, Inc.
1632 Montclair Road, Ste 1200
Birmingham, AL 35210

Attention: Mr. Timothy Barr

RE: ARBCA Evaluation
Aladdin Cleaners and Laundry, Inc.
1668 Montclair Road
Birmingham, Jefferson County, Alabama
DERTF No.: 462-9350
Terracon Project No.: E1137127

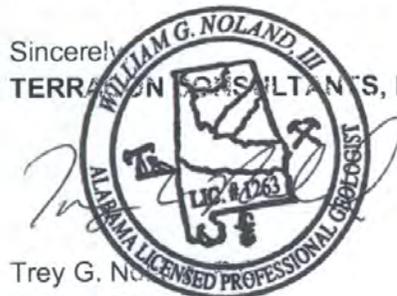
JAN 16 2014

Dear Mr. Barr:

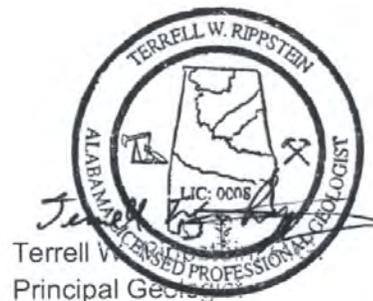
Terracon Consultants, Inc. (Terracon) has completed the Alabama Risk-Based Corrective Action (ARBCA) Evaluation for the above-referenced site. This work was performed under the Dry Cleaning Environmental Response Trust Fund (DERTF) approved Cost Proposal #5. The enclosed report describes our study and presents our findings. A copy of the report has been submitted to the Alabama Department of Environmental Management (ADEM).

Terracon appreciates the opportunity to provide this report. If you have any questions concerning this project, please contact us at (205) 942-1289.

Sincerely,
TERRACON CONSULTANTS, INC.



Trey G. Noland
Project Geologist



Terrell W. Ripstein
Principal Geologist

Terracon Consultants, Inc. 110 12th Street North Birmingham, Alabama 35203
P [205] 942 1289 F [205] 443 5302 terracon.com

Geotechnical

Environmental

Construction Materials

Facilities



January 15, 2014

Alabama Department of Environmental Management
P.O. Box 301463
Montgomery, Alabama 36130-1463

Attention: Ms. Bonnie Temple

RE: ARBCA Evaluation (CP#5)
Aladdin Cleaners and Laundry, Inc.
1668 Montclair Road
Birmingham, Jefferson County, Alabama
DERTF No.: 462-9350
Terracon Project No.: E1137127

Dear Ms. Temple:

Terracon Consultants, Inc. (Terracon) has completed the Alabama Risk-Based Corrective Action (ARBCA) Evaluation for the above-referenced site. This work was performed under the Dry Cleaning Environmental Response Trust Fund (DERTF) approved Cost Proposal #5. The enclosed report describes our study and presents our findings.

Terracon appreciates the opportunity to provide this report. If you have any questions concerning this project, please contact us at (205) 942-1289.

Sincerely,
TERRACON CONSULTANTS, INC.


Trey G. Noland
Project Geologist


Terrell W. Rippstein
Principal Geologist

cc: Mr. Timothy Barr - Aladdin
Mr. Cary Spiegel - ADEM

Terracon Consultants, Inc. 110 12th Street North Birmingham, AL 35203
P [205] 942 1289 F [205] 443 5302 terracon.com



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**ALABAMA RISK-BASED CORRECTIVE ACTION EVALUATION
ALADDIN CLEANERS AND LAUNDRY, INC., INC.
1668 MONTCLAIR ROAD
BIRMINGHAM, JEFFERSON COUNTY, ALABAMA
DERFT#462-9350**

Terracon Project No.: E1137127

January 15, 2014

1.0 INTRODUCTION

1.1 Scope and Objectives

The objective of this Alabama Risk-Based Corrective Action (ARBCA) is to determine the amount of possible risk to human health and the environment due to contamination discovered on the property during prior soil and groundwater investigations. This ARBCA was prepared on behalf of Aladdin Cleaners and Laundry, Inc. (Aladdin) for the former Aladdin Cleaners site located at 1668 Montclair Road in Birmingham, Jefferson County, Alabama.

2.0 SITE CHARACTERIZATION

2.1 Site Description and Land Use

2.1.1 Location and Vicinity

The Aladdin Cleaners site is located at 1668 Montclair Road in Birmingham, Jefferson County, Alabama. The site is identified on the United States Geological Survey (USGS) 7.5-minute Topographic Quadrangle "Irondale, Alabama" dated 1959, revised 1978, and is located in the southwest $\frac{1}{4}$ of the northeast $\frac{1}{4}$ of Section 26, Township 17 South, Range 2 West in Birmingham, Jefferson County, Alabama.

The site currently consists of a BBVA Compass Bank and associated parking and landscaped areas. The site is surrounded by commercial properties including a gasoline service station located to the south/southeast across Montclair Road. Figure 2 illustrates pertinent site features, including monitoring well locations.

2.1.2 Topography

The site is at an elevation of approximately 715 feet above mean sea level (ft-amsl). The site and surrounding properties are relatively flat with a gentle slope to the southwest.

2.1.3 Land Use

The site and adjacent properties are zoned for commercial use and are expected to remain zoned commercial for the foreseeable future. The site is currently occupied by BBVA Compass Bank. A Site Vicinity Map showing the site and surround area is included as Figure 1.

2.2 Chronology of Events

The following is a summary of the chronology of events based on current available information.

- September 2001 – A Phase II ESA conducted by EMG indicated the presence of constituents of concern (COCs) related to drycleaning solvents in soil and groundwater samples.
- July 2003 – An Initial Investigation was conducted by PPM Consultants, Inc. (PPM) that included the installation of two shallow monitoring wells. The Initial Investigation Report was submitted to the Alabama Department of Environmental Management (ADEM) in January 2004.
- May 2004 – ADEM requested an Additional Assessment. An Additional Assessment was conducted by PPM that included the installation of one additional shallow monitoring well and one deep Type III monitoring well.
- October 2004 – The Revised Initial Investigation Report was submitted to ADEM. Based on the results of the Revised Initial Investigation, ADEM requested an Additional Assessment.
- March 2005 – An Additional Assessment Plan was submitted.
- April 2005 – ADEM approved the Additional Assessment Plan.
- June 2006 – ADEM issued a letter stating that the site would be addressed under the Drycleaning Environmental Response Trust Fund (DERTF) rather than the Voluntary Cleanup Program (VCP).
- March 2008 – ADEM issued a letter to PPM requesting groundwater sampling prior to implementing the Additional Assessment Plan.
- May 2008 – Gallet became the DERTF contractor for the site. A site visit by Gallet indicated that two monitoring wells had been destroyed, and the drycleaning facility had been razed.
- July 2008 – Gallet submitted a letter to ADEM requesting approval for implementation of the April 2005 Additional Assessment Plan.
- September 2008 – ADEM approved Gallet's July 2008 request. Construction of Compass Bank initiated around this time.
- November 2008 – Gallet submitted Cost Proposal (CP)#2 to the DERTF for the Additional Assessment activities. Subsequently, two additional monitoring wells were damaged or destroyed during construction activities.

- January 2009 – The Type III monitoring well was abandoned.
- April 2010 – At the request of ADEM and the DERTF, a Revised Property Assessment Scope of Work and revised CP#2 were submitted to ADEM and the DERTF.
- April 30, 2010 – ADEM approved the Revised Property Assessment Scope of Work.
- May 17, 2010 – Revised CP#2 was approved by the DERTF.
- August/September 2010 – A Preliminary Assessment was performed at the site that included the installation and sampling of soil borings and groundwater monitoring wells.
- January 20, 2011 – Terracon submitted the Preliminary Assessment report to ADEM for approval.
- April 18, 2011 – Terracon submitted CP#3 to the DERTF for additional assessment activities.
- May 13, 2011 – CP#3 was approved by the DERTF. Commencement of additional assessment activities was significantly delayed due to off-site and right-of-way access issues.
- April 2013 – Terracon performed a Supplemental Environmental Assessment for the site which included the installation of three Type II monitoring wells and four Type III monitoring wells. Soil and groundwater samples were collected and analyzed at each monitoring well location. Groundwater samples collected from three wells (MW-1, MW-3, and DW-1) contained COCs in groundwater associated with dry-cleaning operations at concentrations exceeding the ADEM Preliminary Screening Values (PSVs).
- June 2013 – Terracon submitted CP#4 and CP#5 to the DERTF for groundwater monitoring activities and to conduct an ARBCA Evaluation for the facility.
- August 2013 – CP#4 and CP#5 were approved by the DERTF. Terracon conducted a site-wide groundwater monitoring event under CP#4. COCs in groundwater associated with drycleaning solvents were present in groundwater at concentrations above the EPA Maximum Contaminant Level (MCL) or Regional Screening Level (RSL) in four monitoring wells (MW-1, MW-3, DW-1, and DW-1-D).
- November 2013 – Terracon conducted a site-wide groundwater monitoring event under approved CP#5. COCs in groundwater associated with drycleaning solvents were present in groundwater at concentrations above the EPA MCL/RSL in five monitoring wells (MW-1, MW-3, DW-1, DW-3, and DW-1-D). Results of this event are discussed in Section 2.2 below.

2.3 Site Geology, Hydrology, and Stratigraphy

2.3.1 Regional and Site Geology

Alabama Risk-Based Corrective Action Evaluation

Aladdin Cleaners & Laundry - Montclair ■ Birmingham, Alabama
January 15, 2014 ■ Project No. E1137127



According to *The Geologic Map of Alabama, dated 1988*, the subject site lies within the western Valley and Ridge physiographic province. The site is underlain by Mississippian-aged sedimentary rocks including the Floyd Shale and Bangor Limestone. The Floyd Shale is described as a dark-gray shale, sideritic in part, with localized thin beds of sandstone, limestone, and chert. The Bangor Limestone consists of medium to thick bedded limestone with interbedded shale. A Geologic Map of the vicinity is included as Figure 8.

2.3.2 Regional and Site Hydrogeology

According to the United States Geological Survey *Water-Resources Investigations Report 87-4068*, the site is located in an area of recharge and susceptibility to surface contamination for the Tuscumbia-Fort Payne Aquifer. Groundwater at the site is present in the soils above bedrock and in multiple zones within the bedrock. Based on groundwater elevation data for the Type II and Type III monitoring wells, it appears that the soil and bedrock groundwater zones are in communication. Type II monitoring wells at the site (MW-1, MW-4, MW-5, MW-6, and MW-8) have been installed to the top of bedrock at depths ranging from approximately 11 to 13 feet below ground surface (ft-bgs). Type III monitoring wells have been completed in three separate water-bearing zones within the bedrock including the shallow bedrock zone (MW-2 and MW-3), the intermediate bedrock zone (DW-1 through DW-4) and the deep bedrock zone (DW-1-D). A summary of monitoring wells constructed on site is included in Table 2.3.2 below.

Table 2.3.2. Monitoring Well Construction Summary

Well ID	Type	Total Depth*	Outer Casing Depth*	Average DTW [^]
MW-1	II	13	--	8.01
MW-2	III	23	10	8.29
MW-3	III	22	12	10.69
MW-4	II	12	--	7.58
MW-5	II	12	--	7.03
MW-6	II	11	--	6.57
MW-8	II	12	--	9.07
DW-1	III	55	25	7.03
DW-2	III	55	26	54.80
DW-3	III	55	27	9.08
DW-4	III	55	23	48.47
DW-1-D	III	80	1 st @ 26; 2 nd @ 60	7.68

*Feet below ground surface, approximate

[^] Feet below top of casing, measured. Average based on previous 4 gauging events or since stabilization.

2.3.2.1 Groundwater Flow

An average of the depths to water collected during the previous four gauging events from the Type II monitoring wells listed above yielded an average depth to water of 7.65 feet below top of casing (ft-btoc). Historically, groundwater elevation data has indicated a general groundwater flow direction to the southwest. Figures 14a-14c are potentiometric surface maps from the November 2013 event and previous events illustrating the general groundwater flow direction at the site. Table 3 includes historical groundwater elevation data for the site.

2.3.2.2 Aquifer Testing

Aquifer “slug” tests were performed on shallow Type II monitoring wells MW-1 and MW-4 on September 7, 2010. The data collected during these aquifer tests were analyzed by the software package AQTESOLV™ using the Bouwer and Rice methodology. The use of this method provides point values for the hydraulic conductivity of the water-bearing zone. Hydraulic conductivity (K) for monitoring well MW-1 was calculated to be 3.83×10^{-2} feet per minute (ft/min). Hydraulic conductivity for MW-4 was calculated to be 1.88×10^{-2} ft/min.

Based on the average hydraulic conductivity for MW-1 and MW-4 (2.855×10^{-2} ft/min) and the average groundwater gradient between these wells (0.004 ft/ft), the shallow groundwater flow velocity (Darcy Velocities) in the water bearing zone above bedrock was calculated as follows:

Equation:	V	=	K	x	dh/dl
Where:	V	=	Groundwater Flow (Darcy) Velocity		
	K	=	Hydraulic Conductivity		
	dh/dl	=	Groundwater Gradient		

Calculation: $V = (2.855 \times 10^{-2} \text{ft/min})(0.004) = 1.14 \times 10^{-4} \text{ft/min} = \mathbf{60.02 \text{ ft/year}}$

2.3.3 Site Stratigraphy

Information obtained during on-site drilling activities indicates that the soil underlying the site consists mainly of brown and yellow-orange gravelly clays, silts, and fine sands from below the asphalt and gravel base to auger refusal (depths of approximately 8 to 13 ft-bgs). The bedrock encountered appeared to be a competent medium gray limestone. Boring logs, including well schematics (when appropriate) that describe the lithology encountered during boring advancement are included as Figure 10. A map illustrating the cross-section transect lines is included as Figure 12. Figure 13 contains geologic cross-section maps illustrating the site-specific stratigraphy.

2.4 Water Use

2.4.1 Current Water Use

Water to the site is currently supplied by the Birmingham Water Works Board. The City of Birmingham obtains its water from surface water impoundments located greater than one mile from the site. No private water wells were noted within a 1,500-foot radius of the site.

According to the United States Geological Survey *Water-Resources Investigations Report 87-4068*, there is one public water supply well for the City of Irondale that is located approximately 0.95 mile northeast (upgradient) of the subject site. This well is 235 feet deep, is completed in the Fort Payne Chert, and is located at an approximate elevation of 755 ft-amsl. Two additional public supply wells for the City of Irondale are located greater than one mile northeast of the site. The locations of these wells are illustrated on Figure 6.

2.4.2 Future Water Use

There are not any plans to attempt to use groundwater at the site as a potable water source due to the availability of water supplied by the city. Additionally, local ordinance restricts the use of groundwater in instances where access to the public water supply is available. As the subject site and surrounding areas are developed and have access to a public water source, on-site and off-site groundwater use is not a reasonable scenario.

2.5 Release Scenario and Source Characterization

2.5.1 Chemicals of Potential Concern

The chemicals of potential concern (COPCs) associated with the site include all volatile organic compounds (VOCs) that have been detected in groundwater at the site within the past three years and that have been detected in soil at the site since inception of assessment activities. The COPCs include benzene, cis-1,2-DCE, methyl tert butyl ether (MTBE), naphthalene, PCE, TCE, and vinyl chloride.

2.5.2 Distribution of COPCs

2.5.2.1 Soil

The only COPC that has been reported in soil at the site at concentrations greater than the laboratory detection limit is naphthalene in the sample collected from SB-3 from 4-6 ft-bgs. In addition, no COPC associated with drycleaning operations (cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, or vinyl chloride) had a reported laboratory detection limit above its respective Environmental Protection Agency (EPA) Regional Screening Level (RSL) for industrial soil.

Historical soil analytical data is summarized in Table 1. Complete soil analytical reports are included in Appendix A.

2.5.2.2 Groundwater

With the exception of monitoring well MW-6, COPCs associated with drycleaning operations (cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, and/or vinyl chloride) have been detected in groundwater samples collected from each monitoring well. The highest concentrations of chlorinated constituents have been detected on site in the west-central portion of the property in monitoring wells MW-3, DW-1, and DW-1-D. Maps illustrating the distribution of COPCs in groundwater at the site are included as Figures 16a – 16c. Historical groundwater analytical data is summarized in Table 2. Complete groundwater analytical data is compiled in Table 6. Groundwater analytical reports are included in Appendix A.

A review of COPC concentration trends indicates a relatively stable or overall downward trend for each COPC in each well with the exception of PCE in monitoring wells MW-8, DW-3, and DW-1-D. Time versus concentration graphs are included in Figure 15.

2.5.2.3 Surface Water

There are no surface water bodies on the site. The closest surface water body is Shades Creek located approximately 0.5 mile south of the site. Therefore an assessment of surface water is not applicable to this ARBCA Evaluation.

2.5.2.4 Soil Vapors

A soil vapor study has not been conducted at the site.

2.5.2.5 Sediments

An assessment of sediments is not applicable to this ARBCA Evaluation.

3.0 NOVEMBER 2013 GROUNDWATER MONITORING EVENT

3.1 Groundwater Flow

Depths to groundwater were measured for monitoring wells MW-1 through MW-8, DW-1 through DW-4, and DW-1-D on November 22, 2013 using an electronic water level indicator capable of measuring water depth to an accuracy of 0.01 feet. The water level indicator and measuring tape were decontaminated between wells. Depth to water in the shallow wells ranged from 5.46 feet below top of casing (ft-btoc, MW-6) to 11.81 ft-btoc (MW-3). The depth to water in the

intermediate wells (DW-1 through DW-4) ranged from 8.14 ft-btoc (DW-1) to 54.71 ft-btoc (DW-2). Depth to water in the deep well (DW-1-D) was 8.27 ft-btoc. Groundwater elevation data are included in Table 3. Figure 14a is a potentiometric surface map for November 22, 2013 which indicates shallow groundwater flows generally towards the west-southwest which is consistent with previous monitoring. Figures 14b and 14c are potentiometric surface maps for previous gauging events.

3.2 Groundwater Sampling Procedures

On November 22, 2013, the monitoring wells were purged using dedicated disposable bailers. The wells were purged of at least three well volumes or until dry. Due to lack of groundwater, monitoring wells MW-8 and DW-2 were not purged and field parameters were not collected from these wells. Groundwater samples were collected using dedicated, disposable bailers and dispensed into the appropriate laboratory-prepared sample containers. Each sample container was labeled, wrapped in bubble pack, and placed immediately in a cooler containing ice. The groundwater samples were shipped under chain-of-custody to ESC Lab Sciences (ESC) in Mt. Juliet, Tennessee, for analysis of VOCs by EPA Method 8260. Monitoring well details, purge volumes, and field parameter readings including pH, oxidation/reduction potential (ORP), dissolved oxygen (DO), and conductivity are presented in the attached Water Quality Sampling Forms (Appendix B).

3.3 Groundwater Sampling Analytical Results

Laboratory analytical results for the groundwater samples collected during this sampling event are summarized in Table 2. Analytical results for detected constituents were compared to the EPA MCL or RSL. Only the VOCs detected during this sampling event or previous sampling events are included on Table 2. The concentrations of COCs detected in groundwater samples collected on November 22, 2013 are illustrated on Figure 16a. Figures 16b and 16c illustrate the detected COCs in groundwater for previous sampling events. The laboratory analytical report for the groundwater samples is included in Appendix A. Analytical results indicate the following:

- Several chlorinated constituents were detected in groundwater beneath the site during this event, including cis-1,2-dichloroethene (DCE), tetrachloroethene (PCE), trichloroethene (TCE), and vinyl chloride.
- PCE in monitoring wells MW-3, DW-1, DW-3, and DW-1-D; and TCE in wells MW-1 and DW-1-D were detected above the EPA RSL/MCL for these constituents. No other constituent in any other monitoring well was detected at a concentration exceeding its respective EPA RSL/MCL.

4.0 PRELIMINARY SCREENING LEVEL EVALUATION

4.1 Exposure Domain Concentrations

COPCs were detected by the laboratory in subsurface soil samples (on-site) and groundwater samples (on-site and off-site); therefore, these exposure domains were included in the preliminary screening level evaluation.

4.1.1 Surface and Subsurface Soil

With the exception of small landscaped areas, the entire site is currently covered with asphalt, concrete, and a structure atop a concrete foundation. Additionally, field screening methods did not indicate elevated volatile constituents in near-surface soils beneath the asphalt/concrete surface coverings. However, in the absence of laboratory analytical data for the upper one-foot of soil, COPCs in surficial soil were assumed to be present at levels consistent with the maximum concentrations detected in subsurface soil at the site.

The only COPC that has been detected in soil at the site at concentrations greater than the laboratory detection limit is naphthalene in the sample collected from SB-3 from 4-6 ft-bgs. Naphthalene was detected at a concentration of 0.0026 milligrams per kilogram (mg/kg) which is below its respective EPA RSL of 18 mg/kg for industrial soil. In addition, no COPC associated with drycleaning operations (cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, or vinyl chloride) had a reported laboratory detection limit above its respective EPA RSL for industrial soil.

4.1.2 Groundwater

Several COPCs have been reported in on-site and off-site groundwater monitoring wells at concentrations above the laboratory detection limit including benzene, cis-1,2-DCE, MTBE, PCE, TCE, and vinyl chloride. Historical groundwater analytical data is summarized on Table 2. For the purpose of this evaluation, data from groundwater sampling events conducted within the previous three years (recent maximum) were utilized. Additionally, as the maximum concentrations were detected on site and surrounding properties are zoned commercial, only the on-site exposure domain for groundwater was evaluated. The recent (previous 3 years) maximum concentrations of COPCs in the groundwater exposure domain are:

- acetone – 0.33 mg/L
- benzene – 0.0012 mg/L
- cis-1,2-DCE – 0.0080 mg/L
- MTBE – 0.0021 mg/L
- PCE – 0.098 mg/L
- TCE – 0.0078 mg/L
- Vinyl Chloride – 0.0015 mg/L

4.1.3 Surface Water

Not applicable.

4.1.4 Sediments

Not applicable.

4.2 Comparison with Regional Screening Levels

As discussed above, naphthalene was the only constituent present in soil samples at a concentration above the laboratory detection limit. This constituent was not present at concentrations above the EPA RSL for industrial soil. Several constituents were present in groundwater samples at concentrations above the laboratory detection limit. A comparison of representative concentrations with the EPA MCL/RSL for tapwater is presented in Table 4.2 below. Historical soil and groundwater analytical data are summarized in Tables 1 and 2. Complete groundwater analytical data is compiled in Table 6. Soil and groundwater analytical reports are presented in Appendix A.

Table 4.2. Representative Concentrations for Groundwater

Constituent	Location	Date	Representative Concentration	Screening Level*
Benzene	DW-1-D	4/10/13	0.0012	0.005
Cis-1,2-DCE	DW-1	4/9/13	0.018	0.07
MTBE	DW-3	4/10/13	0.0021	0.012
PCE	DW-1-D	8/22/13	0.098	0.005
TCE	DW-1-D	8/22/13	0.0078	0.005
Vinyl Chloride	MW-4	11/22/13	0.0015	0.002

All concentrations are in milligrams per liter (mg/l)

* Value represents EPA MCL. EPA RSL for Tapwater utilized in instances when no MCL was available.

Bold – Value exceeds EPA RSL/MCL.

4.3 Recommendations

TCE and PCE in groundwater were the only COPCs detected at the site at concentrations above their respective EPA MCL/RSL. It is recommended that these constituents be carried forward as COCs at the site and that a Risk Management-2 (RM-2) Evaluation be performed to evaluate the risk that the presence of these constituents in groundwater poses to human health and the environment.

5.0 EXPOSURE ASSESSMENT

5.1 Introduction

5.1.1 Sources

The source of the COCs is believed to have been from the dry-cleaning operations conducted at the site. Specifically, PCE and petroleum-based solvents were stored and used on site in daily dry-cleaning operations from 1981-1994. The former dry cleaning facility has been razed and the site has been redeveloped as a bank; as such, there is no continuing source at the site.

5.1.2 Release Mechanisms

The exact nature of the release is unknown; however VOCs have been detected in groundwater at the site indicating an unintentional release.

5.1.3 Transport Media

The transport media at the site is groundwater to soil vapor to indoor/outdoor air.

5.1.4 Receptors

5.1.4.1 Current Receptor Evaluation

The property building is currently in use as a bank. Adjacent properties are all developed commercial properties or vacant properties zoned for commercial use. As such, the current receptors include the on-site and off-site Commercial Worker and the Trespasser.

5.1.4.2 Future Receptor Evaluation

The site and adjacent properties are currently zoned for commercial use and are likely to remain commercial for the foreseeable future; therefore, the future on-site and off-site Resident was not considered. The potential does exist for future construction activities though none are currently proposed, to Terracon's knowledge. Therefore, in addition to the current on-site and off-site Commercial Worker and the current Trespasser, the future Construction Worker receptor was considered as part of the RM-2 Evaluation.

5.1.5 Pathways of Exposure

The only COCs detected at the site at concentrations exceeding the respective EPA MCL/RSL are PCE and TCE in groundwater. Possible exposure routes for groundwater consist of indoor and outdoor inhalation of vapors. Water supply wells are not located on the subject property or

within 1,500 feet of the property, and use of groundwater is prohibited by local ordinance. As such, groundwater ingestion is not considered a route of exposure at this site.

5.2 Site Discretization into Exposure Domains

As stated in Section A.2.2 of Appendix A of the ARBCA Guidance manual, "The exposure domain is the area or volume over which the receptor is or may be exposed to the contaminated media (surficial soil, subsurface soil, and groundwater)."

- An exposure domain for soil does not exist because the soil samples analyzed did not contain VOCs at concentrations greater than their respective EPA RSLs;
- An exposure domain does exist for groundwater since VOCs were detected at concentrations exceeding their respective EPA RSL/MCLs in several monitoring wells.

5.3 Site Conceptual Exposure Models for Exposure Domains

The site conceptual exposure model (SCEM) for current and future land use conditions is graphically presented in the Risk Assessment and Management Group, Inc. (RAM) model output and represents the complete pathways described in Section 4.1.4 and 4.1.5 above. The SCEM is included as Figure 4.

5.4 Groundwater Resource Protection

Water to the site and surrounding properties is currently supplied by the Birmingham Water Works Board (BWWB). The BWWB obtains its water from surface water impoundments located greater than one mile from the site. No private water wells were noted within a 1,500-foot radius of the site.

According to the United States Geological Survey *Water-Resources Investigations Report 87-4068*, there is one public water supply well for the City of Irondale that is located approximately 0.95 mile northeast (upgradient) of the subject site. This well is 235 feet deep, is completed in the Fort Payne Chert, and is located at an approximate elevation of 755 ft-amsl. Two additional public supply wells for the City of Irondale are located greater than one mile northeast of the site. The locations of these wells are illustrated on Figure 6.

There are not any plans to use groundwater at the site as a potable water source due to the availability of water supplied by the BWWB. Additionally, local ordinance restricts the use of groundwater in instances where access to the public water supply is available. As the subject site and surrounding areas are developed and have access to a public water source, on-site and off-site groundwater use is not a reasonable scenario and groundwater resource protection was not considered as part of this ARBCA Evaluation.

5.5 Surface Water and Stream Protection

A risk evaluation for surface water and stream protection is not applicable to this site. The nearest surface water body is Shades Creek located 0.5 mile south of the site.

5.6 Ecological Exposure

Not applicable.

6.0 RM-1 EVALUATION

A Risk Management-1 (RM-1) evaluation was not performed because the average depth to groundwater (7.65 ft-btoc) was less than the RM-1 default value of 10 ft-bgs. The ARBCA Guidance manual states in Section 4.6.2 that, "When the depth to groundwater is significantly less than the 10 feet, then a RM-2 evaluation should be conducted that utilizes the site-specific depth to groundwater."

7.0 RM-2 EVALUATION

7.1 Exposure Domain Concentrations

7.1.1 Soil

A soil exposure domain does not exist for the site as discussed in Section 3.2.

7.1.2 Groundwater

The recent maximum concentrations for TCE and PCE in groundwater were utilized for all groundwater exposure domains in the RM-2 Evaluation. Representative concentrations for these constituents are summarized below:

- PCE – 0.098 mg/l
- TCE – 0.0078 mg/l

7.2 Toxicological Properties

Toxicology properties listed in the ARBCA Guidance Manual for various chemicals were compared to those presented in the most recent EPA RSL table (November 2013) available on EPA's website. Toxicological properties required updating for PCE and TCE and are presented in Table 5.

The inhalation reference dose (RfDi) was generally obtained using the information provided by ADEM using the equation $RfDi = (RfCi \times 20 \text{ m}^3/\text{day})/70 \text{ Kg}$, where RfCi is the inhalation reference concentration provided in the EPA RSL Summary Table or in the IRIS database. The inhalation slope factor (SFi) was calculated using the following equation $SFi = (IUR/20 \text{ m}^3/\text{day}) \times 70 \text{ Kg} \times 10,000 \text{ ug}/\text{mg}$, where IUR is the inhalation unit risk provided on the EPA RSL Summary Table or in the IRIS database. The most updated information was used for the evaluation.

7.3 Physical and Chemical Factors

The water solubility, Henry's Law Constant, and the organic absorption coefficient were obtained from the software program prepared by RAM in partnership with ADEM. Otherwise, changes were not made to the RM-2 default values.

7.4 Exposure Factors

The default exposure factors were not changed for the RM-2 evaluation.

7.5 Fate and Transport Parameters

The following fate and transport parameters were utilized as a part of the site specific RM-2 evaluation. The length and width of the groundwater source was based upon a southwestern groundwater flow direction. The size of the groundwater source was based on the current chlorinated solvent plume (concentrations of PCE and TCE above screening levels). Soil properties data obtained from Shelby Tube analyses are summarized in Table 4.

7.5.1 Soil Parameters

- Length of soil source area parallel to wind direction (W_a) – 7,620 centimeters (cm) was set equal to the length of the groundwater source parallel to groundwater flow direction (W).
- Depth to subsurface soil sources – 30.48 cm (Default Value)
- Lower depth of surficial soil zone – 30.48 cm (Default Value)
- Total soil porosity in the vadose zone – $0.304 \text{ cm}^3/\text{cm}^3$ -soil (Shelby Tube)
- Volumetric water content – $0.287 \text{ cm}^3/\text{cm}^3$ (Shelby Tube)
- Dry soil bulk density – 1.815 grams (g)/ cm^3 (Shelby Tube)
- Capillary fringe thickness – 50 cm (Literature value)
- Fractional organic carbon content in the vadose zone – 0.013 g-Carbon/g-soil (Analytical)

7.5.2 Groundwater Parameters

- Depth to Groundwater – 233.17 cm (Recent average. See Section 2.4.2)
- Width of groundwater source perpendicular to groundwater flow direction (Y) – 3,048 cm.
- Length of groundwater source parallel to groundwater flow direction – 7,620 cm
- Total soil porosity in the saturated zone – 0.336 cm³/cm³-soil (Shelby Tube)
- Dry bulk density in the saturated zone – 1.735 g/cm³ (Shelby Tube)
- Fractional organic carbon content in the saturated zone – 0.017 g-Carbon/g-soil (Analytical)
- Hydraulic conductivity – 15,006 cm/year (Average conductivity from slug test)
- Hydraulic gradient – 0.004 cm/cm (Average gradient between MW-1 and MW-4)
- Infiltration rate – 13.7 cm/year (Literature value)

7.6 Models and Equations

The models and equations recommended in Appendix B of the most recent edition of the ARBCA Guidance Manual and incorporated into the RAM ARBCA Computational Software were used for the RM-2 evaluation. These include the Domenico Model and the Johnson and Ettinger Model.

7.7 Chemicals with Missing Data

There was no missing data for PCE or TCE.

7.8 Cumulative Risk Evaluation

The cumulative risks calculated by the RAM software are summarized in Tables 7.8a and 7.8b and are discussed below. The RAM model output for the risks evaluation is included in Table 5.

Table 7.8a – Individual Excess Lifetime Cancer Risk

Receptor	Sum of IELCR*
Commercial Worker	9.76 x 10 ⁻¹¹
Trespasser	8.65 x 10 ⁻¹⁰
Construction Worker	6.53 x 10 ⁻¹³

IELCR – Individual Excess Lifetime Cancer Risk

*Allowable IELCR is 1x10⁻⁵

Table 7.8b – Hazard Index

Receptor	Sum of HI*
Commercial Worker	2.81×10^{-6}
Trespasser	6.23×10^{-5}
Construction Worker	4.70×10^{-7}

HI – Hazard Index

*Allowable HI is 1.0

The cumulative risks are below the allowable risk for the Individual Excess Lifetime Cancer Risk (IELCR) for carcinogens for all applicable receptors. The IELCR is the sum of the risks of each complete pathway as calculated in Table 5. The Hazard Index (HI) for the Commercial Worker, Trespasser, and Construction Worker were also below the allowable risk of 1.0 as calculated in Table 5.

8.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the available data and calculated cumulative risks, Terracon concludes the following:

- Time versus concentration graphs indicate a relatively stable or decreasing trend for each COC in each monitoring well with the exception of PCE in MW-8, DW-3, and DW-1-D.
- There are no groundwater supply wells located within 1,500 feet of the facility. Additionally, local ordinance restricts the use of groundwater in instances where access to the public water supply is available. As the subject site and surrounding areas are developed and have access to a public water source, on-site and off-site groundwater use is not a reasonable scenario and groundwater resource protection was not considered as part of this ARBCA Evaluation.
- The preliminary screening evaluation indicates that the only COPCs detected in soil or groundwater at the site at concentrations above applicable screening levels are PCE and TCE in groundwater. These constituents were carried forward as COCs in the RM-2 evaluation.
- Results of the RM-2 evaluation indicate that the cumulative IECLR and HI were not exceeded for any applicable receptor.
- Based on results of the RM-2 evaluation and that cumulative risks are significantly below allowable levels for all applicable receptors, Terracon recommends no further remedial action at the facility.

9.0 REFERENCES

The following literature and other data references were utilized in the compilation of the ARBCA evaluation:

- Alabama Department of Environmental Management. *Alabama Risk-Based Corrective Action Guidance Manual*. April 2008, Revision 2.
- USGS. *7.5-Minute Topographic Quadrangle "Irondale, Alabama."* 1959, Photorevised 1978.
- Environmental Protection Agency, *Regional Screening Level Summary Table*, November 2013, retrieved from www.epa.gov.
- Fetter, C.W., *Applied Hydrogeology – Third Edition*. New Jersey: Prentice-Hall, Inc., 1994. Pages 182.
- Gallet & Associates, Inc., *Preliminary Assessment*, January 20, 2011.
- Stricklin, V.E., USGS. *Geohydrology and Susceptibility of Major Aquifers to Surface Contamination in Alabama; Area 4, Water-Resources Investigations Report 88-4120, Plate 1 – Recharge Areas and Potentiometric Surfaces of the Major Aquifers, Areas Susceptible to Contamination, and Locations of Public Water-Supply Wells*, 1989.
- Terracon Consultants, Inc., *Groundwater Monitoring Report (CP #4)*, October 15, 2013.
- Terracon Consultants, Inc., *Supplemental Environmental Assessment*, May 24, 2013.
- ARBCA Guidance Manual, *Figure C-1 – Mean Annual Precipitation for Alabama*, April 1998

TABLES

Table 1 Summary of Soil Analytical Data
ARBCA Evaluation
Aladdin Montclair
Birmingham, Jefferson County, Alabama
Terracon Project No.: E1137127



Sample ID	Collection Date	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Vinyl chloride	Benzene	Methyl tert butyl ether	Naphthalene
SB-1 2FT	8/16/10	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.029
SB-1 4-6FT	8/16/10	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064	<0.032
SB-2 2.5FT	8/16/10	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.034
SB-2 4-5FT	8/16/10	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.034
SB-3 4-6FT	8/16/10	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	0.0026
SB-3 8-10FT	8/16/10	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.034
SB-4 6-8FT	8/17/10	<0.0061	<0.0061	<0.0061	<0.0061	<0.0061	<0.0061	<0.0061	<0.030
SB-4 10-11.5FT	8/17/10	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.030
SB-5 4-6FT	8/17/10	<0.0063	<0.0063	<0.0063	<0.0063	<0.0063	<0.0063	<0.0063	<0.031
SB-5 8-8.5FT	8/17/10	<0.0061	<0.0061	<0.0061	<0.0061	<0.0061	<0.0061	<0.0061	<0.030
MW-5 8-10FT	4/4/13	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.030
MW-6 8-10 FT	4/4/13	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.029
MW-8 8-10 FT	4/4/13	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.029
DW-2 8-10 FT	4/3/13	<0.0065	<0.0065	<0.0065	<0.0065	<0.0065	<0.0065	<0.0065	<0.033
DW-3 8-10FT	4/2/13	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064	<0.032
DW-4 1-3FT	4/3/13	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.028
DW-1D 8-10FT	4/1/13	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.029
<i>EPA RSL Industrial Soil</i>		<i>2000</i>	<i>690</i>	<i>110</i>	<i>6.4</i>	<i>1.7</i>	<i>5.4</i>	<i>220</i>	<i>18</i>

All results in milligrams per kilogram (mg/kg)
Table includes COCs detected in soil and/or groundwater.
EPA RSL - Regional Screening Levels, November 2013
Bold - concentration exceeds method detection limit (MDL).

Table 2 Summary of Groundwater Analytical Results
 Aladdin Cleaners and Laundry, Inc. - Montclair
 Birmingham, Jefferson County, Alabama
 Terracon Project No.: E1137127

Sample ID	Collection Date	Chlorinated COCs					Petroleum COCs				Other
		cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Vinyl chloride	Benzene	Methyl tert-butyl ether	Total Xylenes	1,2,3-Trimethylbenzene	Acetone
EPA RSL/MCL		0.07	0.1	0.005	0.005	0.002	0.005	0.012	10	1	12
MW-1	9/3/2010	0.0099	--	0.013	0.0036	--	--	0.0029	--	--	--
	4/9/2013	0.008	--	0.036	0.0047	--	--	--	--	--	--
	8/22/2013	0.0063	--	0.026	0.0037	--	--	--	--	--	--
	11/22/2013	0.0038	--	0.0043	0.0053	--	--	--	--	--	--
MW-2	9/3/2010	0.0013	--	--	--	--	--	0.0011	0.0062	0.0013	0.0013
	8/22/2013	--	--	0.001	--	--	--	--	--	--	--
	11/22/2013	0.0017	--	0.0011	--	--	--	--	--	--	--
MW-3	9/3/2010	0.0029	--	0.0028	--	--	--	--	--	--	--
	4/9/2013	0.0064	--	0.021	0.0034	--	--	--	--	--	--
	8/22/2013	0.0026	--	0.014	0.0023	--	--	--	--	--	--
	8/22/2013*	0.0032	--	0.015	0.0024	--	--	--	--	--	--
	11/22/2013	0.0013	--	0.0077	0.0024	--	--	--	--	--	--
MW-4	9/3/2010	0.21	0.0013	0.036	0.026	0.031	--	--	--	--	--
	4/9/2013	0.0024	--	--	--	--	--	--	--	--	--
	8/22/2013	0.0033	--	--	--	--	--	--	--	--	--
	11/22/2013	0.0032	--	--	--	0.0010	--	--	--	--	--
	11/22/2013*	0.0040	--	--	--	0.0015	--	--	--	--	--
MW-5	4/10/2013	0.0042	--	--	--	--	--	--	--	--	--
	8/22/2013	0.0042	--	--	--	--	--	--	--	--	--
	8/22/2013*	0.0037	--	--	--	--	--	--	--	--	--
MW-6	4/9/2013	--	--	--	--	--	--	--	--	--	--
	8/22/2013	--	--	--	--	--	--	--	--	--	--
	11/22/2013	--	--	--	--	--	--	--	--	--	--
MW-8	4/10/2013	0.0046	--	0.0019	0.0012	--	--	0.001	--	--	--
	8/22/2013	--	--	0.0046	--	--	--	--	--	--	--
	11/22/2013	--	--	0.0031	--	--	--	--	--	--	--
DW-1	9/3/2010	0.0021	--	0.13	0.014	--	--	0.0025	--	--	--
	9/3/2010*	0.0021	--	0.13	0.014	--	--	0.0027	--	--	--
	4/9/2013	0.017	--	0.038	0.005	--	--	0.0011	--	--	--
	4/9/2013*	0.018	--	0.038	0.0049	--	--	0.0011	--	--	--
	8/22/2013	0.015	--	0.028	0.004	--	--	--	--	--	--
	11/22/2013	0.013	--	0.026	0.0038	--	--	--	--	--	--
DW-2	11/22/2013	--	--	0.0011	0.0014	--	--	--	--	--	--
DW-3	4/10/2013	0.0025	--	0.0032	--	--	--	0.0021	--	--	--
	11/22/2013	0.0027	--	0.029	0.0025	--	--	0.0020	--	--	--
DW-4	8/22/2013	0.0011	--	--	--	--	--	--	--	--	--
	11/22/2013	--	--	--	--	--	--	--	--	--	--
DW-1-D	4/10/2013	--	--	0.0033	0.0011	--	0.0012	--	--	--	0.33
	8/22/2013	--	--	0.098	0.0078	--	--	--	--	--	--
	11/22/2013	--	--	0.086	0.0073	--	--	--	--	--	--

All results in milligrams per liter (mg/L).

Only detected constituents are included in table.

* Indicates Duplicate

COC - Chemical of Concern

EPA RSL/MCL - EPA Regional Screening Level/Maximum Contaminant Level (RSL used when no MCL available)

RBTL - Risk-based Target Level

Bold - exceeds EPA RSL/MCL

Table 3 Groundwater Elevation Data
Aladdin Cleaners and Laundry, Inc. - Montclair
Birmingham, Jefferson County, Alabama
Terracon Project No.: E1137127

Monitoring Well	Date Measured	Top of Casing Elevation (ft amsl)	Measured Depth to Water (ft btoc)	Groundwater Elevation (ft amsl)
MW-1	9/3/2010	720.38	8.14	712.24
	4/9/2013		7.58	712.80
	4/25/2013		7.64	712.74
	8/22/2013		7.79	712.59
	11/22/2013		9.04	711.34
MW-2	9/3/2010	718.74	19.46	699.28
	4/9/2013		7.42	711.32
	4/25/2013		8.50	710.24
	8/22/2013		8.35	710.39
	11/22/2013		8.87	709.87
MW-3	9/3/2010	719.37	17.0	702.37
	4/9/2013		10.57	708.80
	4/25/2013		10.87	708.50
	8/22/2013		9.51	709.86
	11/22/2013		11.81	707.56
MW-4	9/3/2010	720.61	8.41	712.20
	4/9/2013		7.43	713.18
	4/25/2013		7.45	713.16
	8/22/2013		7.31	713.30
	11/22/2013		8.11	712.50
MW-5	4/8/2013	719.06	9.01	710.05
	4/25/2013		6.4	712.66
	8/22/2013		6.37	712.69
	11/22/2013		6.34	712.72
MW-6	4/9/2013	720.38	10.25	710.13
	4/25/2013		5.31	715.07
	8/22/2013		5.27	715.11
	11/22/2013		5.46	714.92
MW-8	4/10/2013	720.88	9.31	711.57
	4/25/2013		8.49	712.39
	8/22/2013		8.57	712.31
	11/22/2013		9.91	710.97
DW-1	9/3/2010	719.38	7.06	712.32
	4/9/2013		6.59	712.79
	4/25/2013		6.58	712.80
	8/22/2013		6.79	712.59
	11/22/2013		8.14	711.24
DW-2	4/10/2013	720.40	54.78	665.62
	4/25/2013		55.02	665.38
	8/22/2013		54.69	665.71
	11/22/2013		54.71	665.69
DW-3	4/10/2013	720.47	51.06	669.41
	4/25/2013		8.42	712.05
	11/22/2013		9.73	710.74
DW-4	4/10/2013	718.45	54.83	663.62
	4/25/2013		>55	<663.45
	8/22/2013		44.33	674.12
	11/22/2013		46.24	672.21
DW-1-D	4/10/2013	719.38	77.24	642.14
	4/25/2013		44.43	674.95
	8/22/2013		7.08	712.30
	11/22/2013		8.27	711.11

ft amsl = feet above mean sea level
ft btoc = feet below top of casing

Table 4 Soil Physical Properties Data
ARBCA Evaluation
Aladdin Montclair
Birmingham, Jefferson County, Alabama
Terracon Project No.: E1137127

Sample ID	Depth (feet)	Dry Bulk Density (g/cm³)	Total Porosity	Specific Gravity	Volumetric Water Content (cm³/cm³)	FOC (g-c/g-s)
ST-1 (4-6')	4 - 6	1.815	0.304	2.618	0.287	0.013
ST-2 (6-7')	6 - 7	1.735	0.336	2.621	0.313	0.017

g/cm³ - grams per cubic centimeter

cm³/cm³ - cubic centimeter per cubic centimeter

FOC - fractional organic carbon

g-c/g-s - grams of carbon per gram of soil

Table 5

RM-2 Calculated Cumulative Risk within Each Exposure Domain

**ALABAMA RISK-BASED CORRECTIVE ACTION
(ARBCA) COMPUTATIONAL SOFTWARE**

Developed to be consistent with:
**Alabama Risk-Based Corrective Action Guidance Manual
April 2008**

CONTINUE

Version 2.1, May 2009.

EXIT

Developed by:
**Risk Assessment and Management (RAM) Group, Inc.
5433 Westheimer, Suite 725, Houston, TX 77056.
Ph: (713) 784-5151
Fax: (713) 784-6105
www.ramgp.com**

**ALABAMA RISK-BASED CORRECTIVE ACTION (ARBCA)
COMPUTATIONAL SOFTWARE**

TITLE

SITE INFORMATION

MAIN MENU

SITE No.

462-9350

SITE NAME

Aladdin Cleaners and Laundry

ADDRESS

1668 Montclair Road

Birmingham, Jefferson County, Alabama

CONTACT NAME

Mr. Timothy Barr

TELEPHONE NO.

(205) 879-6917

For exclusive use by Gallet & Associates

MAIN MENU	
INPUT	
RM-1 <input type="radio"/> RM-2 <input checked="" type="radio"/>	
SITE	ABBREVIATIONS
1. USER-SPECIFIED COCs & PROPERTIES (OPTIONAL)	2. SELECT COCs
3. EXPOSURE MODEL	4. TARGET RISK
5. PHYSICAL AND CHEMICAL PROPERTIES OF COCs	6. TOXICOLOGICAL PROPERTIES OF COCs
7. EXPOSURE FACTORS	8. FATE AND TRANSPORT PARAMETERS
9. PROTECTION OF GROUNDWATER USE	10. PROTECTION OF SURFACE WATER
11. SOIL & GW PROTECTIVE OF INDOOR INHALATION	12. CHEMICAL-SPECIFIC INPUTS FOR OTHER EXPOSURE PATHWAYS
13. CLEAN-UP LEVEL CALCULATION	
OUTPUT	
FORWARD MODE MENU	BACKWARD MODE MENU

**USER-SPECIFIED CHEMICALS OF CONCERN & PROPERTIES
PHYSICAL AND CHEMICAL PROPERTIES**

Chemicals	CAS #	MCL [mg/L]	Molecular Weight (MW) [g/g-mol]	Water Solubility (S) [mg/L]	Henry's Law Constant (H) [L-water/L-air]	Org. Carbon Adsorption Coeff. (K _{oc}) [cm ³ /g]	Soil-Water Partition Coefficient (K _d) [cm ³ /g]	Molecular Diffusion Coefficient	
								in air (D ^a) [cm ² /s]	in water (D ^w) [cm ² /s]
Tetrachloroethene (PCE)	127-18-4	0.005	166	200	0.75	160	1.76	0.072	0.0000082
Trichloroethene (TCE)	79-01-6	0.005	131	1100	0.42	170	1.87	0.079	0.0000091
User-Specified Chemical 3									
User-Specified Chemical 4									
User-Specified Chemical 5									

TOXICOLOGICAL PROPERTIES

Chemicals	Cancer Group	Slope Factor		Reference Dose		Absorption Factor		Bioconcentration Factor in Fish (BCF) [L/kg]
		Oral (SF _o) [kg-day/mg]	Inh. (SF _i) [kg-day/mg]	Oral (RfD _o) [mg/kg-day]	Inh. (RfD _i) [mg/kg-day]	Dermal (RAF _d) [--]	Oral (RAF _o) [--]	
Tetrachloroethene (PCE)	V	0.0021	0.00091	0.006	0.14	0.01	1	
Trichloroethene (TCE)	V	0.046	0.0144	0.0005	0.00567	0.01	1	
User-Specified Chemical 3								
User-Specified Chemical 4								
User-Specified Chemical 5								

*Type:

V: Volatile Organic Compounds
S: Semi-Volatile Organic Compounds

P: Pesticides & Herbicides
I: Inorganics

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SELECT CHEMICALS OF CONCERN

CHEMICALS	TYPE* and CAS #
<input type="checkbox"/> Perchlorate	I 7601-90-3
<input type="checkbox"/> Selenium	I 7782-49-2
<input type="checkbox"/> Silver	I 7440-22-4
<input type="checkbox"/> Strontium	I 7440-24-6
<input type="checkbox"/> Sulfate	I 7757-82-6
<input type="checkbox"/> Thallium	I 7440-28-0
<input type="checkbox"/> Tin	I 7440-31-5
<input type="checkbox"/> Vanadium	I 7440-62-2
<input type="checkbox"/> Zinc	I 7440-66-6
<input checked="" type="checkbox"/> Tetrachloroethene (PCE)	NA 127-18-4
<input checked="" type="checkbox"/> Trichloroethene (TCE)	NA 79-01-6
<input type="checkbox"/> User-Specified Chemical 3	NA NA
<input type="checkbox"/> User-Specified Chemical 4	NA NA
<input type="checkbox"/> User-Specified Chemical 5	NA NA

MAIN

CLEAR ALL

DONE

* V: Volatile Organic Compounds S: Semi-Volatile Organic Compounds
P: Pesticides & Herbicides I: Inorganics

SITE: 462-9350

TARGET RISK

Parameter	Symbol	Default Value	Value Used	Comment
Potential Carcinogenic Health Effects				
Individual Excessive Lifetime Cancer Risk for all chemicals and all exposure pathways	TR _{cum}	1.00E-05	1.00E-05	Default Value
Potential Non-Carcinogenic Health Effects				
Hazard Index for all chemicals and all exposure pathways	HI	1.0	1.0	Default Value

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SITE: 462-9350

PHYSICAL AND CHEMICAL PROPERTIES OF CHEMICALS OF CONCERN

Chemicals of Concern	Molecular Weight	Water Solubility	Henry's Law Constant	Org. Carbon Adsorption Coeff.	Soil-Water Sorption Coeff. Vadose Zone	Soil-Water Sorption Coeff. Saturated zone	Molecular Diffusion Coefficient		Saturated Soil Concentration
	(MW) [g/g-mol]	(S) [mg/L]	(H) [L-water/L-air]	(K _{oc}) [cm ³ /g]	(K _{sv}) [cm ³ -water /g-soil]	(K _{ss}) [cm ³ /g]	in air (D ^a) [cm ² /s]	in water (D ^w) [cm ² /s]	
Tetrachloroethene (PCE)	1.66E+02	2.00E+02	7.50E-01	1.60E+02	2.08E+00	2.72E+00	7.20E-02	8.20E-06	4.49E+02
Trichloroethene (TCE)	1.31E+02	1.10E+03	4.20E-01	1.70E+02	2.21E+00	2.89E+00	7.90E-02	9.10E-06	2.61E+03

NA: Not Available

The values in red are calculated.

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SITE: 462-9350

TOXICOLOGICAL PROPERTIES OF CHEMICALS OF CONCERN

Chemicals of Concern	Slope Factor		Reference Dose		Absorption Factor	
	Oral (SF _o)	Inh. (SF _i)	Oral (RfD _o)	Inh. (RfD _i)	Oral (RAF _o)	Dermal (RAF _d)
	[kg-day/mg]	[kg-day/mg]	[mg/kg-day]	[mg/kg-day]	[--]	[--]
Tetrachloroethene (PCE)	2.10E-03	9.10E-04	6.00E-03	1.40E-01	1	0.01
Trichloroethene (TCE)	4.60E-02	1.44E-02	5.00E-04	5.67E-03	1	0.01

NA: Not Available

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Parameter	Symbol	Unit	Default Value	Value Used	Comment
Averaging Time for Carcinogen	AT _c	year	70	70	Default Value
Averaging Time for Non-Carcinogen	AT _n	year	=ED	=ED	Default Value
Body Weight:					
Resident Child	BW	kg	15	15	Default Value
Resident Adult	BW	kg	70	70	Default Value
Trespasser	BW	kg	45	45	Default Value
Commercial Worker	BW	kg	70	70	Default Value
Construction Worker	BW	kg	70	70	Default Value
Exposure Duration:					
Resident Child	ED	year	6	6	Default Value
Resident Adult	ED	year	30	30	Default Value
Trespasser	ED	year	10	10	Default Value
Commercial Worker	ED	year	25	25	Default Value
Construction Worker	ED	year	1	1	Default Value
Exposure Frequency:					
Resident Child	EF	day/year	350	350	Default Value
Resident Adult	EF	day/year	350	350	Default Value
Trespasser	EF	day/year	350	350	Default Value
Commercial Worker	EF	day/year	250	250	Default Value
Construction Worker	EF	day/year	250	250	Default Value
Soil Ingestion Rate:					
Resident Child	IRS	mg/day	200	200	Default Value
Resident Adult	IRS	mg/day	100	100	Default Value
Trespasser	IRS	mg/day	100	100	Default Value
Commercial Worker	IRS	mg/day	75	75	Default Value
Construction Worker	IRS	mg/day	177	177	Default Value
Water Ingestion Rate:					
Resident Child	IRW	L/day	1	1	Default Value
Resident Adult	IRW	L/day	2	2	Default Value
Hourly Indoor Inhalation Rate:					
Resident Child	IR _{ai}	m ³ /hr	0.5	0.500	Default Value
Resident Adult	IR _{ai}	m ³ /hr	0.833	0.833	Default Value
Trespasser	IR _{ai}	m ³ /hr	1.5	1.500	Default Value
Commercial Worker	IR _{ai}	m ³ /hr	1.5	1.500	Default Value
Construction Worker	IR _{ai}	m ³ /hr	1.5	1.500	Default Value
Exposure Time for Indoor Inhalation:					
Resident Child	ET _{in}	hr/day	24	24	Default Value
Resident Adult	ET _{in}	hr/day	24	24	Default Value
Trespasser	ET _{in}	hr/day	24	24	Default Value
Commercial Worker	ET _{in}	hr/day	10	10	Default Value
Construction Worker	ET _{in}	hr/day	10	10	Default Value
Daily Indoor Inhalation Rate:					
Resident Child	IR _{ai_d}	m ³ /day	12.0	12.0	Calculated
Resident Adult	IR _{ai_d}	m ³ /day	20.0	20.0	Calculated
Trespasser	IR _{ai_d}	m ³ /day	36.0	36.0	Calculated
Commercial Worker	IR _{ai_d}	m ³ /day	15.0	15.0	Calculated
Construction Worker	IR _{ai_d}	m ³ /day	15.0	15.0	Calculated

The values in red are calculated.

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EXPOSURE FACTORS

(Page 2 of 2)

Parameter	Symbol	Unit	Default Value	Value Used	Comment
Hourly Outdoor Inhalation Rate:					
Resident Child	IR _{ao}	m ³ /hr	0.5	0.500	Default Value
Resident Adult	IR _{ao}	m ³ /hr	0.833	0.833	Default Value
Trespasser	IR _{ao}	m ³ /hr	1.5	1.500	Default Value
Commercial Worker	IR _{ao}	m ³ /hr	1.5	1.500	Default Value
Construction Worker	IR _{ao}	m ³ /hr	1.5	1.500	Default Value
Exposure Time for Outdoor Inhalation:					
Resident Child	ET _{out}	hr/day	10	10	Default Value
Resident Adult	ET _{out}	hr/day	10	10	Default Value
Trespasser	ET _{out}	hr/day	10	10	Default Value
Commercial Worker	ET _{out}	hr/day	10	10	Default Value
Construction Worker	ET _{out}	hr/day	10	10	Default Value
Daily Outdoor Inhalation Rate:					
Resident Child	IR _{ao_d}	m ³ /day	5.0	5.0	Calculated
Resident Adult	IR _{ao_d}	m ³ /day	8.3	8.3	Calculated
Trespasser	IR _{ao_d}	m ³ /day	15.0	15.0	Calculated
Commercial Worker	IR _{ao_d}	m ³ /day	15.0	15.0	Calculated
Construction Worker	IR _{ao_d}	m ³ /day	15.0	15.0	Calculated
Soil to Skin Adherence Factor:					
Resident Child	M	mg/cm ²	0.2	0.2	Default Value
Resident Adult	M	mg/cm ²	0.07	0.07	Default Value
Trespasser	M	mg/cm ²	0.2	0.2	Default Value
Commercial Worker	M	mg/cm ³	0.2	0.2	Default Value
Construction Worker	M	mg/cm ²	0.2	0.2	Default Value
Skin Surface Area for Dermal Contact:					
Resident Child	SA	cm ² /day	2800	2800	Default Value
Resident Adult	SA	cm ² /day	5700	5700	Default Value
Trespasser	SA	cm ² /day	5700	5700	Default Value
Commercial Worker	SA	cm ² /day	5700	5700	Default Value
Construction Worker	SA	cm ² /day	5700	5700	Default Value

The values in red are calculated.

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Parameter	Symbol	Unit	Default Value	Value Used	Comment
SOIL PARAMETERS:					
Length of soil source area parallel to wind direction	W_a	cm	**	7620	Site-Specific Value
Depth to subsurface soil sources	L_s	cm	30.48	30.48	Default Value
Lower depth of surficial soil zone	d	cm	30.48	30.48	Default Value
Depth to soil vapor measurement	d_{sv}	cm	30.48	30.48	Default Value
VADOSE ZONE:					
Total soil porosity	θ_T	$\text{cm}^3/\text{cm}^3\text{-soil}$	0.30	0.304	Site-Specific Value
Volumetric water content	θ_{ws}	cm^3/cm^3	0.10	0.29	Site-Specific Value
Volumetric air content	θ_{as}	cm^3/cm^3	0.20	0.01	Calculated
Thickness	h_v	cm	295	183.17	Calculated
Dry soil bulk density	ρ_s	g/cm^3	1.8	1.815	Site-Specific Value
Fractional organic carbon content	f_{oc}	$\text{g-C}/\text{g-soil}$	0.002	0.013	Site-Specific Value
FOUNDATION/WALL CRACKS:					
Total soil porosity	θ_{Tcrack}	$\text{cm}^3/\text{cm}^3\text{-soil}$	0.30	0.304	Site-Specific Value
Volumetric water content	$\theta_{v,crack}$	cm^3/cm^3	0.10	0.29	Site-Specific Value
Volumetric air content	$\theta_{a,crack}$	cm^3/cm^3	0.20	0.01	Calculated
CAPILLARY FRINGE:					
Total soil porosity	θ_{Tcap}	$\text{cm}^3/\text{cm}^3\text{-soil}$	0.30	0.304	Site-Specific Value
Volumetric water content	$\theta_{v,cap}$	cm^3/cm^3	0.27	0.27	Calculated
Volumetric air content	$\theta_{a,cap}$	cm^3/cm^3	0.03	0.03	Calculated
Thickness	h_{cap}	cm	5	50	Site-Specific Value
GROUNDWATER PARAMETERS:					
Depth to groundwater	L_{gw}	cm	300	233.17	Site-Specific Value
Width of GW source perpendicular to GW flow direction	Y	cm	**	3048	Site-Specific Value
Length of GW source parallel to GW flow direction	W	cm	**	7620	Site-Specific Value
Total soil porosity in the saturated zone	θ_{TS}	cm^3/cm^3	0.30	0.34	Site-Specific Value
Dry soil bulk density in the saturated zone	ρ_{ss}	g/cm^3	1.8	1.735	Site-Specific Value
Fractional organic carbon content in the saturated zone	f_{ocs}	$\text{g-C}/\text{g-soil}$	0.002	0.017	Site-Specific Value
Groundwater mixing zone thickness	δ_{gw}	cm	200	200	Default Value
Hydraulic conductivity in the saturated zone	K	cm/year	31536	15006	Site-Specific Value
Hydraulic gradient in the saturated zone	i	cm/cm	0.005	0.004	Site-Specific Value
Groundwater darcy velocity	U_{gw}	cm/year	60.02	60.02	Calculated
Infiltration rate	I	cm/year	14.8	13.7	Site-Specific Value
AMBIENT AIR PARAMETERS:					
Breathing zone height	δ_a	cm	200	200	Default Value
Wind speed within the breathing zone	U_a	cm/s	225	225	Default Value
ENCLOSED SPACE PARAMETERS:					
Enclosed Space Air Exchange Rate:					
Residential	ER	1/sec	0.00014	0.00014	Default Value
Trespasser	ER	1/sec	0.00014	0.00014	Default Value
Commercial/construction worker	ER	1/sec	0.00023	0.00023	Default Value
Enclosed Space Volume/Infiltration Area Ratio:					
Residential	L_B	cm	200	200	Default Value
Trespasser	L_B	cm	200	200	Default Value
Commercial construction worker	L_B	cm	300	609.6	Site-Specific Value
Enclosed Space Foundation or Wall Thickness:					
Residential	L_{crack}	cm	15	15	Default Value
Trespasser	L_{crack}	cm	15	15	Default Value
Commercial/construction worker	L_{crack}	cm	15	15	Default Value
Area Fraction of Cracks in Foundation/Walls:					
Residential	η	cm^2/cm^2	0.01	0.01	Default Value
Trespasser	η	cm^2/cm^2	0.01	0.01	Default Value
Commercial/construction worker	η	cm^2/cm^2	0.01	0.01	Default Value
PARTICULATE EMISSION RATE:					
Residential and commercial	P_e	$\text{g}/\text{cm}^2\text{sec}$	6.90E-14	6.90E-14	Default Value

Trespasser	P_e	$g/cm^2 sec$	6.90E-09	6.90E-09	Default Value
Construction worker	P_e	$g/cm^2 sec$	6.90E-09	6.90E-09	Default Value
AVERAGING TIME FOR VAPOR FLUX:					
Resident child	τ	sec	1.89E+08	1.89E+08	Calculated
Resident adult	τ	sec	9.46E+08	9.46E+08	Calculated
Trespasser	τ	sec	3.15E+08	3.15E+08	Calculated
Commercial worker	τ	sec	7.88E+08	7.88E+08	Calculated
Construction worker	τ	sec	3.15E+07	3.15E+07	Calculated

***: The source area (assumed to be square) should be classified as either (i) small (270 yd²) = (1500 cm X 1500 cm), (ii) medium (1/2 acre) = (4,498 cm X 4,498 cm), or (iii) large (1 acre) = (6,362 cm X 6,362 cm)

The values in red are calculated.

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CLEAN-UP LEVEL CALCULATION

When the cumulative risk criteria has to be satisfied clean-up levels are not unique. Several different combinations of clean-up levels can satisfy the cumulative risk criteria. Following are two of the many options available:

- Option 1** - Reduce each of the representative concentrations by the risk reduction factor. Risk reduction factor is the ratio of the calculated site-wide risk to the target cumulative risk.
- Option 2** - Each of the representative concentration is reduced by a factor such that the risk from each COC and each ROE is identical.

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REPRESENTATIVE CONCENTRATION FOR A COMMERCIAL WORKER

CHEMICALS OF CONCERN	AIR		SURFICIAL SOIL					SUBSURFACE SOIL		SOIL VAPOR		GROUNDWATER		
	Indoor	Outdoor	Dermal Contact	Ingestion	Outdoor Inhalation of Vapor Emissions	Outdoor Inhalation of Particulates	Combined Pathway	Indoor Inhalation of Vapor Emissions	Outdoor Inhalation of Vapor Emissions	Indoor Inhalation of Vapor Emissions	Outdoor Inhalation of Vapor Emissions	Indoor Inhalation of Vapor Emissions	Outdoor Inhalation of Vapor Emissions	
	[mg m ⁻³ -air]		[mg/kg]							[mg m ⁻³]		[mg/L]		
Tetrachloroethene (PCE)													9.80E-02	9.80E-02
Trichloroethene (TCE)													7.80E-03	7.80E-03

Soil concentrations are presented on a dry weight basis.

NA: Not Available

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REPRESENTATIVE CONCENTRATION FOR A TRESPASSER

CHEMICALS OF CONCERN	AIR		SURFICIAL SOIL				SUBSURFACE SOIL		SOIL VAPOR		GROUNDWATER		
	Indoor	Outdoor	Dermal Contact	Ingestion	Outdoor Inhalation of Vapor Emissions	Outdoor Inhalation of Particulates	Combined Pathway	Indoor Inhalation of Vapor Emissions	Outdoor Inhalation of Vapor Emissions	Indoor Inhalation of Vapor Emissions	Outdoor Inhalation of Vapor Emissions	Indoor Inhalation of Vapor Emissions	Outdoor Inhalation of Vapor Emissions
	[mg/m ³ -air]		[mg/kg]							[mg/m ³]		[mg/L]	
Tetrachloroethene (PCE)												9.80E-02	9.80E-02
Trichloroethene (TCE)												7.80E-03	7.80E-03

Soil concentrations are presented on a dry weight basis.

NA: Not Available

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REPRESENTATIVE CONCENTRATION FOR A CONSTRUCTION WORKER

CHEMICALS OF CONCERN	AIR	SOIL UPTO DEPTH OF CONSTRUCTION					SOIL VAPOR	GROUNDWATER
	Outdoor	Dermal Contact	Ingestion	Outdoor Inhalation of Vapor Emissions	Outdoor Inhalation of Particulates	Combined Pathway	Outdoor Inhalation of Vapor Emissions	Outdoor Inhalation of Vapor Emissions
	[mg/m ³ -air]	[mg/kg]					[mg/m ³]	[mg/L]
Tetrachloroethene (PCE)								9.80E-02
Trichloroethene (TCE)								7.80E-03

Soil concentrations are presented on a dry weight basis.

NA: Not Available

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RM-2 IELCR FOR A COMMERCIAL WORKER

CUMULATIVE	AIR		SURFICIAL SOIL				SUBSURFACE SOIL		SOIL VAPOR		GROUNDWATER		
	Indoor	Outdoor	Dermal Contact	Ingestion	Outdoor Inhalation of Vapor Emissions	Outdoor Inhalation of Particulates	Combined Pathway	Indoor Inhalation of Vapor Emissions	Outdoor Inhalation of Vapor Emissions	Indoor Inhalation of Vapor Emissions	Outdoor Inhalation of Vapor Emissions	Indoor Inhalation of Vapor Emissions	Outdoor Inhalation of Vapor Emissions
CUMULATIVE HI	2.81E-06												
CHEMICALS OF CONCERN													
Tetrachloroethene (PCE)	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	3.59E-11	7.33E-12
Trichloroethene (TCE)	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	4.53E-11	9.00E-12
CUMULATIVE RISK													

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RM-2 HQ FOR A COMMERCIAL WORKER

CUMULATIVE	AIR		SURFICIAL SOIL					SUBSURFACE SOIL		SOIL VAPOR		GROUNDWATER	
	Indoor	Outdoor	Dermal Contact	Ingestion	Outdoor Inhalation of Vapor Emissions	Outdoor Inhalation of Particulates	Combined Pathway	Indoor Inhalation of Vapor Emissions	Outdoor Inhalation of Vapor Emissions	Indoor Inhalation of Vapor Emissions	Outdoor Inhalation of Vapor Emissions	Indoor Inhalation of Vapor Emissions	Outdoor Inhalation of Vapor Emissions
CUMULATIVE HI	9.76E-11		2.81E-06										
CHEMICALS OF CONCERN													
Tetrachloroethene (PCE)	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	7.90E-07	1.61E-07
Trichloroethene (TCE)	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	1.55E-06	3.09E-07
CUMULATIVE RISK													

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RM-2 CUMULATIVE RISK FOR A COMMERCIAL WORKER

CUMULATIVE	9.76E-11	SUM OF IELCR	SUM OF HQ (HI)
CUMULATIVE HI	2.81E-06		
CHEMICALS OF CONCERN			
Tetrachloroethene (PCE)		4.33E-11	9.51E-07
Trichloroethene (TCE)		5.43E-11	1.86E-06
CUMULATIVE RISK		9.76E-11	2.81E-06

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RM-2 IELCR FOR A TRESPASSER

CUMULATIVE	AIR		SURFICIAL SOIL				SUBSURFACE SOIL		SOIL VAPOR		GROUNDWATER			
	Indoor	Outdoor	Dermal Contact	Ingestion	Outdoor Inhalation of Vapor Emissions	Outdoor Inhalation of Particulates	Combined Pathway	Indoor Inhalation of Vapor Emissions	Outdoor Inhalation of Vapor Emissions	Indoor Inhalation of Vapor Emissions	Outdoor Inhalation of Vapor Emissions	Indoor Inhalation of Vapor Emissions	Outdoor Inhalation of Vapor Emissions	
CUMULATIVE HI	8.65E-10		6.23E-05											
CHEMICALS OF CONCERN														
Tetrachloroethene (PCE)	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	3.76E-10	6.39E-12	
Trichloroethene (TCE)	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	4.74E-10	7.84E-12	
CUMULATIVE RISK														

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RM-2 HQ FOR A TRESPASSER

CUMULATIVE	AIR		SURFICIAL SOIL					SUBSURFACE SOIL		SOIL VAPOR		GROUNDWATER	
	Indoor	Outdoor	Dermal Contact	Ingestion	Outdoor Inhalation of Vapor Emissions	Outdoor Inhalation of Particulates	Combined Pathway	Indoor Inhalation of Vapor Emissions	Outdoor Inhalation of Vapor Emissions	Indoor Inhalation of Vapor Emissions	Outdoor Inhalation of Vapor Emissions	Indoor Inhalation of Vapor Emissions	Outdoor Inhalation of Vapor Emissions
8.65E-10													
6.23E-05													
CHEMICALS OF CONCERN													
Tetrachloroethene (PCE)	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	2.07E-05	3.51E-07
Trichloroethene (TCE)	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	4.06E-05	6.72E-07
CUMULATIVE RISK													

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RM-2 CUMULATIVE RISK FOR A TRESPASSER

	SUM OF IELCR	SUM OF HQ (HI)
CUMULATIVE	8.65E-10	
CUMULATIVE HI	6.23E-05	
CHEMICALS OF CONCERN		
Tetrachloroethene (PCE)	3.83E-10	2.10E-05
Trichloroethene (TCE)	4.82E-10	4.13E-05
CUMULATIVE RISK	8.65E-10	6.23E-05

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RM-2 IELCR FOR A CONSTRUCTION WORKER

CUMULATIVE	6.53E-13	AIR	SOIL UPTO DEPTH OF CONSTRUCTION				SOIL VAPOR	GROUNDWATER
		Outdoor	Dermal Contact	Ingestion	Outdoor Inhalation of Vapor Emissions	Outdoor Inhalation of Particulates	Combined Pathway	Outdoor Inhalation of Vapor Emissions
CHEMICALS OF CONCERN								
Tetrachloroethene (PCE)		NC	NC	NC	NC	NC	NC	2.93E-13
Trichloroethene (TCE)		NC	NC	NC	NC	NC	NC	3.60E-13
CUMULATIVE RISK								

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RM-2 HQ FOR A CONSTRUCTION WORKER

CUMULATIVE	6.53E-13	AIR	SOIL UP TO DEPTH OF CONSTRUCTION				SOIL VAPOR	GROUNDWATER
		Outdoor	Dermal Contact	Ingestion	Outdoor Inhalation of Vapor Emissions	Outdoor Inhalation of Particulates	Combined Pathway	Outdoor Inhalation of Vapor Emissions
CUMULATIVE HI	4.70E-07							
CHEMICALS OF CONCERN								
Tetrachloroethene (PCE)		NC	NC	NC	NC	NC	NC	1.61E-07
Trichloroethene (TCE)		NC	NC	NC	NC	NC	NC	3.09E-07
CUMULATIVE RISK								

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RM-2 CUMULATIVE RISK FOR A CONSTRUCTION WORKER

CUMULATIVE	6.53E-13	SUM OF IELCR	SUM OF HQ (HI)
CUMULATIVE HI	4.70E-07		
CHEMICALS OF CONCERN			
Tetrachloroethene (PCE)		2.93E-13	1.61E-07
Trichloroethene (TCE)		3.60E-13	3.09E-07
CUMULATIVE RISK		6.53E-13	4.70E-07

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ABBREVIATIONS

Parameter	
HI	Hazard Index (sum of hazard quotient)
HQ	Hazard Quotient
IELCR	Individual Excess Lifetime Cancer Risk
M	The concentration is MCL.
N/A	The soil concentration at the source is not applicable since the groundwater concentration has been entered/selected.
NA	Volatilization factor was not calculated due to lack of Henry's law constant
NC	Pathway is not complete.
NCL	The clean-up level is not calculated since the target risk is not exceeded.
NCOC	The risk/clean-up level cannot be calculated since the chemical of concern is not selected/entered.
NCsw	The concentrations cannot be calculated since the conc. protective of surface water (Csw) is not available/entered.
NHL	The DAF/concentration cannot be calculated since the half-life for the COC is not available/entered.
NMZ	No mixing zone
NPCP	The risk/concentration cannot be calculated since the physical and chemical properties for the COC is not available.
NREP	The risk cannot be calculated since the representative concentration is not available/entered.
NTOX	The risk/concentration cannot be calculated since the toxicological properties for the COC is not available.
RM	Risk Management
--	The clean-up level/concentration cannot be calculated for this COC since the input properties is not available/entered.
*	Calculated concentration exceeded saturated soil concentration. Calculated value is shown.
+	Calculated concentration exceeded saturated vapor concentration. Calculated value is shown.
#	Calculated concentration exceeded solubility. Calculated value is shown.
>1E+300	When DAF is greater then >1+300, the concentrations shown is saturated soil concentration for soil and/or solubility for groundwater.

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Table 6 Calculation of Representative Concentrations in Groundwater
 ARBCA Evaluation
 Aladdin Montclair
 Birmingham, Jefferson County, Alabama
 Terracon Project No. E1137127

Parameter	2-Chloroethyl vinyl ether	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	1,2-Dibromo-3-Chloropropane	1,2-Dibromoethane	Dibromomethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	
	EPA RSL/MCL	0.002	0.00019	0.19	0.18	0.19	0.00020	0.00005	0.0079	0.6	0.018*	0.075
Client Sample ID	Collect Date	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value
MW-1	4/9/2013	<0.0030	<0.00032	<0.00028	<0.00038	<0.00035	<0.0013	<0.00038	<0.00035	<0.00035	<0.00022	<0.00027
	8/22/2013	<0.0030	<0.00032	<0.00028	<0.00038	<0.00035	<0.0013	<0.00038	<0.00035	<0.00035	<0.00022	<0.00027
	11/22/2013	<0.0030	<0.00032	<0.00028	<0.00038	<0.00035	<0.0013	<0.00038	<0.00035	<0.00035	<0.00022	<0.00027
MW-2	4/9/2013	<0.0030	<0.00032	<0.00028	<0.00038	<0.00035	<0.0013	<0.00038	<0.00035	<0.00035	<0.00022	<0.00027
	8/22/2013	<0.0030	<0.00032	<0.00028	<0.00038	<0.00035	<0.0013	<0.00038	<0.00035	<0.00035	<0.00022	<0.00027
	11/22/2013	<0.0030	<0.00032	<0.00028	<0.00038	<0.00035	<0.0013	<0.00038	<0.00035	<0.00035	<0.00022	<0.00027
MW-3	4/9/2013	<0.0030	<0.00032	<0.00028	<0.00038	<0.00035	<0.0013	<0.00038	<0.00035	<0.00035	<0.00022	<0.00027
	8/22/2013	<0.0030	<0.00032	<0.00028	<0.00038	<0.00035	<0.0013	<0.00038	<0.00035	<0.00035	<0.00022	<0.00027
	8/22/2013*	<0.0030	<0.00032	<0.00028	<0.00038	<0.00035	<0.0013	<0.00038	<0.00035	<0.00035	<0.00022	<0.00027
	11/22/2013	<0.0030	<0.00032	<0.00028	<0.00038	<0.00035	<0.0013	<0.00038	<0.00035	<0.00035	<0.00022	<0.00027
MW-4	4/9/2013	<0.0030	<0.00032	<0.00028	<0.00038	<0.00035	<0.0013	<0.00038	<0.00035	<0.00035	<0.00022	<0.00027
	8/22/2013	<0.0030	<0.00032	<0.00028	<0.00038	<0.00035	<0.0013	<0.00038	<0.00035	<0.00035	<0.00022	<0.00027
	11/22/2013	<0.0030	<0.00032	<0.00028	<0.00038	<0.00035	<0.0013	<0.00038	<0.00035	<0.00035	<0.00022	<0.00027
	11/22/2013*	<0.0030	<0.00032	<0.00028	<0.00038	<0.00035	<0.0013	<0.00038	<0.00035	<0.00035	<0.00022	<0.00027
MW-5	4/10/2013	<0.0030	<0.00032	<0.00028	<0.00038	<0.00035	<0.0013	<0.00038	<0.00035	<0.00035	<0.00022	<0.00027
	8/22/2013	<0.0030	<0.00032	<0.00028	<0.00038	<0.00035	<0.0013	<0.00038	<0.00035	<0.00035	<0.00022	<0.00027
	11/22/2013	<0.0030	<0.00032	<0.00028	<0.00038	<0.00035	<0.0013	<0.00038	<0.00035	<0.00035	<0.00022	<0.00027
MW-6	4/9/2013	<0.0030	<0.00032	<0.00028	<0.00038	<0.00035	<0.0013	<0.00038	<0.00035	<0.00035	<0.00022	<0.00027
	8/22/2013	<0.0030	<0.00032	<0.00028	<0.00038	<0.00035	<0.0013	<0.00038	<0.00035	<0.00035	<0.00022	<0.00027
	11/22/2013	<0.0030	<0.00032	<0.00028	<0.00038	<0.00035	<0.0013	<0.00038	<0.00035	<0.00035	<0.00022	<0.00027
MW-8	4/10/2013	<0.0030	<0.00032	<0.00028	<0.00038	<0.00035	<0.0013	<0.00038	<0.00035	<0.00035	<0.00022	<0.00027
	8/22/2013	<0.0030	<0.00032	<0.00028	<0.00038	<0.00035	<0.0013	<0.00038	<0.00035	<0.00035	<0.00022	<0.00027
	11/22/2013	<0.0030	<0.00032	<0.00028	<0.00038	<0.00035	<0.0013	<0.00038	<0.00035	<0.00035	<0.00022	<0.00027
DW-1	4/9/2013	<0.0030	<0.00032	<0.00028	<0.00038	<0.00035	<0.0013	<0.00038	<0.00035	<0.00035	<0.00022	<0.00027
	4/9/2013*	<0.0030	<0.00032	<0.00028	<0.00038	<0.00035	<0.0013	<0.00038	<0.00035	<0.00035	<0.00022	<0.00027
	8/22/2013	<0.0030	<0.00032	<0.00028	<0.00038	<0.00035	<0.0013	<0.00038	<0.00035	<0.00035	<0.00022	<0.00027
	11/22/2013	<0.0030	<0.00032	<0.00028	<0.00038	<0.00035	<0.0013	<0.00038	<0.00035	<0.00035	<0.00022	<0.00027
DW-1-D	4/10/2013	<0.0030	<0.00032	<0.00028	<0.00038	<0.00035	<0.0013	<0.00038	<0.00035	<0.00035	<0.00022	<0.00027
	8/22/2013	<0.0030	<0.00032	<0.00028	<0.00038	<0.00035	<0.0013	<0.00038	<0.00035	<0.00035	<0.00022	<0.00027
	11/22/2013	<0.0030	<0.00032	<0.00028	<0.00038	<0.00035	<0.0013	<0.00038	<0.00035	<0.00035	<0.00022	<0.00027
DW-2	4/10/2013	<0.0030	<0.00032	<0.00028	<0.00038	<0.00035	<0.0013	<0.00038	<0.00035	<0.00035	<0.00022	<0.00027
	11/22/2013	<0.0030	<0.00032	<0.00028	<0.00038	<0.00035	<0.0013	<0.00038	<0.00035	<0.00035	<0.00022	<0.00027
DW-3	4/10/2013	<0.0030	<0.00032	<0.00028	<0.00038	<0.00035	<0.0013	<0.00038	<0.00035	<0.00035	<0.00022	<0.00027
	11/22/2013	<0.0030	<0.00032	<0.00028	<0.00038	<0.00035	<0.0013	<0.00038	<0.00035	<0.00035	<0.00022	<0.00027
DW-4	8/22/2013	<0.0030	<0.00032	<0.00028	<0.00038	<0.00035	<0.0013	<0.00038	<0.00035	<0.00035	<0.00022	<0.00027
	11/22/2013	<0.0030	<0.00032	<0.00028	<0.00038	<0.00035	<0.0013	<0.00038	<0.00035	<0.00035	<0.00022	<0.00027

*Duplicate sample.
 EPA RSL/MCL - Regional Screening Level/Maximum Contaminant Level.
 Bold - Value exceeds EPA RSL/MCL
 Bold highlighted - Value exceeds detection limit.

Table 6 Calculation of Representative Concentrations in Groundwater
 ARBCA Evaluation
 Aladdin Montclair
 Birmingham, Jefferson County, Alabama
 Terracon Project No. E1137127

Parameter		Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2-Dichloropropane	1,1-Dichloropropene	1,3-Dichloropropane	cis-1,3-Dichloropropene
	EPA RSL/MCL	0.19	0.0024	0.005	0.007	0.07	0.1	0.005	NE	0.29	0.0004*
Client Sample ID	Collect Date	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value
MW-1	4/9/2013	<0.00055	<0.00026	<0.00036	<0.00040	0.008	<0.00040	<0.00031	<0.00035	<0.00037	<0.00042
	8/22/2013	<0.00055	<0.00026	<0.00036	<0.00040	0.0063	<0.00040	<0.00031	<0.00035	<0.00037	<0.00042
	11/22/2013	<0.00055	<0.00026	<0.00036	<0.00040	0.0038	<0.00040	<0.00031	<0.00035	<0.00037	<0.00042
MW-2	4/9/2013	<0.00055	<0.00026	<0.00036	<0.00040	<0.00026	<0.00040	<0.00031	<0.00035	<0.00037	<0.00042
	8/22/2013	<0.00055	<0.00026	<0.00036	<0.00040	<0.00026	<0.00040	<0.00031	<0.00035	<0.00037	<0.00042
	11/22/2013	<0.00055	<0.00026	<0.00036	<0.00040	0.0017	<0.00040	<0.00031	<0.00035	<0.00037	<0.00042
MW-3	4/9/2013	<0.00055	<0.00026	<0.00036	<0.00040	0.0064	<0.00040	<0.00031	<0.00035	<0.00037	<0.00042
	8/22/2013	<0.00055	<0.00026	<0.00036	<0.00040	0.0026	<0.00040	<0.00031	<0.00035	<0.00037	<0.00042
	8/22/2013*	<0.00055	<0.00026	<0.00036	<0.00040	0.0032	<0.00040	<0.00031	<0.00035	<0.00037	<0.00042
	11/22/2013	<0.00055	<0.00026	<0.00036	<0.00040	0.0013	<0.00040	<0.00031	<0.00035	<0.00037	<0.00042
MW-4	4/9/2013	<0.00055	<0.00026	<0.00036	<0.00040	0.0024	<0.00040	<0.00031	<0.00035	<0.00037	<0.00042
	8/22/2013	<0.00055	<0.00026	<0.00036	<0.00040	0.0033	<0.00040	<0.00031	<0.00035	<0.00037	<0.00042
	11/22/2013	<0.00055	<0.00026	<0.00036	<0.00040	0.0032	<0.00040	<0.00031	<0.00035	<0.00037	<0.00042
	11/22/2013*	<0.00055	<0.00026	<0.00036	<0.00040	0.004	<0.00040	<0.00031	<0.00035	<0.00037	<0.00042
MW-5	4/10/2013	<0.00055	<0.00026	<0.00036	<0.00040	0.0042	<0.00040	<0.00031	<0.00035	<0.00037	<0.00042
	8/22/2013	<0.00055	<0.00026	<0.00036	<0.00040	0.0042	<0.00040	<0.00031	<0.00035	<0.00037	<0.00042
	11/22/2013	<0.00055	<0.00026	<0.00036	<0.00040	0.0037	<0.00040	<0.00031	<0.00035	<0.00037	<0.00042
MW-6	4/9/2013	<0.00055	<0.00026	<0.00036	<0.00040	<0.00026	<0.00040	<0.00031	<0.00035	<0.00037	<0.00042
	8/22/2013	<0.00055	<0.00026	<0.00036	<0.00040	<0.00026	<0.00040	<0.00031	<0.00035	<0.00037	<0.00042
	11/22/2013	<0.00055	<0.00026	<0.00036	<0.00040	<0.00026	<0.00040	<0.00031	<0.00035	<0.00037	<0.00042
MW-8	4/10/2013	<0.00055	<0.00026	<0.00036	<0.00040	0.0046	<0.00040	<0.00031	<0.00035	<0.00037	<0.00042
	8/22/2013	<0.00055	<0.00026	<0.00036	<0.00040	<0.00026	<0.00040	<0.00031	<0.00035	<0.00037	<0.00042
	11/22/2013	<0.00055	<0.00026	<0.00036	<0.00040	<0.00026	<0.00040	<0.00031	<0.00035	<0.00037	<0.00042
DW-1	4/9/2013	<0.00055	<0.00026	<0.00036	<0.00040	0.017	<0.00040	<0.00031	<0.00035	<0.00037	<0.00042
	4/9/2013*	<0.00055	<0.00026	<0.00036	<0.00040	0.018	<0.00040	<0.00031	<0.00035	<0.00037	<0.00042
	8/22/2013	<0.00055	<0.00026	<0.00036	<0.00040	0.015	<0.00040	<0.00031	<0.00035	<0.00037	<0.00042
	11/22/2013	<0.00055	<0.00026	<0.00036	<0.00040	0.013	<0.00040	<0.00031	<0.00035	<0.00037	<0.00042
DW-1-D	4/10/2013	<0.00055	<0.00026	<0.00036	<0.00040	<0.00026	<0.00040	<0.00031	<0.00035	<0.00037	<0.00042
	8/22/2013	<0.00055	<0.00026	<0.00036	<0.00040	<0.00026	<0.00040	<0.00031	<0.00035	<0.00037	<0.00042
	11/22/2013	<0.00055	<0.00026	<0.00036	<0.00040	<0.00026	<0.00040	<0.00031	<0.00035	<0.00037	<0.00042
DW-2	4/10/2013	<0.00055	<0.00026	<0.00036	<0.00040	<0.00026	<0.00040	<0.00031	<0.00035	<0.00037	<0.00042
	11/22/2013	<0.00055	<0.00026	<0.00036	<0.00040	<0.00026	<0.00040	<0.00031	<0.00035	<0.00037	<0.00042
DW-3	4/10/2013	<0.00055	<0.00026	<0.00036	<0.00040	0.0025	<0.00040	<0.00031	<0.00035	<0.00037	<0.00042
	11/22/2013	<0.00055	<0.00026	<0.00036	<0.00040	0.0027	<0.00040	<0.00031	<0.00035	<0.00037	<0.00042
DW-4	8/22/2013	<0.00055	<0.00026	<0.00036	<0.00040	0.0011	<0.00040	<0.00031	<0.00035	<0.00037	<0.00042
	11/22/2013	<0.00055	<0.00026	<0.00036	<0.00040	<0.00026	<0.00040	<0.00031	<0.00035	<0.00037	<0.00042

*Duplicate sample.
 EPA RSL/MCL - Regional Screening Level/Maximum Contaminant Level.
 Bold - Value exceeds EPA RSL/MCL
 Bold highlighted - Value exceeds detection limit.

Table 6 Calculation of Representative Concentrations in Groundwater
 ARBCA Evaluation
 Aladdin Montclair
 Birmingham, Jefferson County, Alabama
 Terracon Project No. E1137127

Parameter		trans-1,3-Dichloropropene	2,2-Dichloropropane	Di-isopropyl ether	Ethylbenzene	Hexachloro-1,3-butadiene	Isopropylbenzene	p-Isopropyltoluene	2-Butanone (MEK)	Methylene Chloride	4-Methyl-2-pentanone (MIBK)	Methyl tert-butyl ether
	EPA RSL/MCL	0.0004*	NE	1.5	0.7	0.00026	0.39	NE	4.9	0.005	1	0.012
Client Sample ID	Collect Date	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value
MW-1	4/9/2013	<0.00042	<0.00032	<0.00032	<0.00038	<0.00026	<0.00033	<0.00035	<0.0039	<0.0010	<0.0021	<0.00037
	8/22/2013	<0.00042	<0.00032	<0.00032	<0.00038	<0.00026	<0.00033	<0.00035	<0.0039	<0.0010	<0.0021	<0.00037
	11/22/2013	<0.00042	<0.00032	<0.00032	<0.00038	<0.00026	<0.00033	<0.00035	<0.0039	<0.0010	<0.0021	<0.00037
MW-2	4/9/2013	<0.00042	<0.00032	<0.00032	<0.00038	<0.00026	<0.00033	<0.00035	<0.0039	<0.0010	<0.0021	<0.00037
	8/22/2013	<0.00042	<0.00032	<0.00032	<0.00038	<0.00026	<0.00033	<0.00035	<0.0039	<0.0010	<0.0021	<0.00037
	11/22/2013	<0.00042	<0.00032	<0.00032	<0.00038	<0.00026	<0.00033	<0.00035	<0.0039	<0.0010	<0.0021	<0.00037
MW-3	4/9/2013	<0.00042	<0.00032	<0.00032	<0.00038	<0.00026	<0.00033	<0.00035	<0.0039	<0.0010	<0.0021	<0.00037
	8/22/2013	<0.00042	<0.00032	<0.00032	<0.00038	<0.00026	<0.00033	<0.00035	<0.0039	<0.0010	<0.0021	<0.00037
	8/22/2013*	<0.00042	<0.00032	<0.00032	<0.00038	<0.00026	<0.00033	<0.00035	<0.0039	<0.0010	<0.0021	<0.00037
	11/22/2013	<0.00042	<0.00032	<0.00032	<0.00038	<0.00026	<0.00033	<0.00035	<0.0039	<0.0010	<0.0021	<0.00037
MW-4	4/9/2013	<0.00042	<0.00032	<0.00032	<0.00038	<0.00026	<0.00033	<0.00035	<0.0039	<0.0010	<0.0021	<0.00037
	8/22/2013	<0.00042	<0.00032	<0.00032	<0.00038	<0.00026	<0.00033	<0.00035	<0.0039	<0.0010	<0.0021	<0.00037
	11/22/2013	<0.00042	<0.00032	<0.00032	<0.00038	<0.00026	<0.00033	<0.00035	<0.0039	<0.0010	<0.0021	<0.00037
	11/22/2013*	<0.00042	<0.00032	<0.00032	<0.00038	<0.00026	<0.00033	<0.00035	<0.0039	<0.0010	<0.0021	<0.00037
MW-5	4/10/2013	<0.00042	<0.00032	<0.00032	<0.00038	<0.00026	<0.00033	<0.00035	<0.0039	<0.0010	<0.0021	<0.00037
	8/22/2013	<0.00042	<0.00032	<0.00032	<0.00038	<0.00026	<0.00033	<0.00035	<0.0039	<0.0010	<0.0021	<0.00037
	11/22/2013	<0.00042	<0.00032	<0.00032	<0.00038	<0.00026	<0.00033	<0.00035	<0.0039	<0.0010	<0.0021	<0.00037
MW-6	4/9/2013	<0.00042	<0.00032	<0.00032	<0.00038	<0.00026	<0.00033	<0.00035	<0.0039	<0.0010	<0.0021	<0.00037
	8/22/2013	<0.00042	<0.00032	<0.00032	<0.00038	<0.00026	<0.00033	<0.00035	<0.0039	<0.0010	<0.0021	<0.00037
	11/22/2013	<0.00042	<0.00032	<0.00032	<0.00038	<0.00026	<0.00033	<0.00035	<0.0039	<0.0010	<0.0021	<0.00037
MW-8	4/10/2013	<0.00042	<0.00032	<0.00032	<0.00038	<0.00026	<0.00033	<0.00035	<0.0039	<0.0010	<0.0021	0.001
	8/22/2013	<0.00042	<0.00032	<0.00032	<0.00038	<0.00026	<0.00033	<0.00035	<0.0039	<0.0010	<0.0021	<0.00037
	11/22/2013	<0.00042	<0.00032	<0.00032	<0.00038	<0.00026	<0.00033	<0.00035	<0.0039	<0.0010	<0.0021	<0.00037
DW-1	4/9/2013	<0.00042	<0.00032	<0.00032	<0.00038	<0.00026	<0.00033	<0.00035	<0.0039	<0.0010	<0.0021	0.0011
	4/9/2013*	<0.00042	<0.00032	<0.00032	<0.00038	<0.00026	<0.00033	<0.00035	<0.0039	<0.0010	<0.0021	0.0011
	8/22/2013	<0.00042	<0.00032	<0.00032	<0.00038	<0.00026	<0.00033	<0.00035	<0.0039	<0.0010	<0.0021	<0.00037
	11/22/2013	<0.00042	<0.00032	<0.00032	<0.00038	<0.00026	<0.00033	<0.00035	<0.0039	<0.0010	<0.0021	<0.00037
DW-1-D	4/10/2013	<0.00042	<0.00032	<0.00032	<0.00038	<0.00026	<0.00033	<0.00035	<0.0039	<0.0010	<0.0021	<0.00037
	8/22/2013	<0.00042	<0.00032	<0.00032	<0.00038	<0.00026	<0.00033	<0.00035	<0.0039	<0.0010	<0.0021	<0.00037
	11/22/2013	<0.00042	<0.00032	<0.00032	<0.00038	<0.00026	<0.00033	<0.00035	<0.0039	<0.0010	<0.0021	<0.00037
DW-2	4/10/2013	<0.00042	<0.00032	<0.00032	<0.00038	<0.00026	<0.00033	<0.00035	<0.0039	<0.0010	<0.0021	<0.00037
	11/22/2013	<0.00042	<0.00032	<0.00032	<0.00038	<0.00026	<0.00033	<0.00035	<0.0039	<0.0010	<0.0021	<0.00037
DW-3	4/10/2013	<0.00042	<0.00032	<0.00032	<0.00038	<0.00026	<0.00033	<0.00035	<0.0039	<0.0010	<0.0021	0.0021
	11/22/2013	<0.00042	<0.00032	<0.00032	<0.00038	<0.00026	<0.00033	<0.00035	<0.0039	<0.0010	<0.0021	0.002
DW-4	8/22/2013	<0.00042	<0.00032	<0.00032	<0.00038	<0.00026	<0.00033	<0.00035	<0.0039	<0.0010	<0.0021	<0.00037
	11/22/2013	<0.00042	<0.00032	<0.00032	<0.00038	<0.00026	<0.00033	<0.00035	<0.0039	<0.0010	<0.0021	<0.00037

*Duplicate sample.
 EPA RSL/MCL - Regional Screening Level/Maximum Contaminant Level.
 Bold - Value exceeds EPA RSL/MCL
 Bold highlighted - Value exceeds detection limit.

Table 6 Calculation of Representative Concentrations in Groundwater
 ARBCA Evaluation
 Aladdin Montclair
 Birmingham, Jefferson County, Alabama
 Terracon Project No. E1137127

Parameter	Naphthalene	n-Propylbenzene	Styrene	1,1,1,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichlorotrifluoroethane	Tetrachloroethene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	
	EPA RSL/MCL	0.00014	0.53	0.1	0.0005	0.000066	53	0.005	1	0.0052	0.07	0.2	0.005
Client Sample ID	Collect Date	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value
MW-1	4/9/2013	<0.0010	<0.00035	<0.00031	<0.00039	<0.00059	<0.00030	0.036	<0.00078	<0.00023	<0.00021	<0.00032	<0.00038
	8/22/2013	<0.0010	<0.00035	<0.00031	<0.00039	<0.00059	<0.00030	0.026	<0.00078	<0.00023	<0.00021	<0.00032	<0.00038
	11/22/2013	<0.0010	<0.00035	<0.00031	<0.00039	<0.00059	<0.00030	0.0043	<0.00078	<0.00023	<0.00021	<0.00032	<0.00038
MW-2	4/9/2013	<0.0010	<0.00035	<0.00031	<0.00039	<0.00059	<0.00030	<0.00037	<0.00078	<0.00023	<0.00021	<0.00032	<0.00038
	8/22/2013	<0.0010	<0.00035	<0.00031	<0.00039	<0.00059	<0.00030	0.001	<0.00078	<0.00023	<0.00021	<0.00032	<0.00038
	11/22/2013	<0.0010	<0.00035	<0.00031	<0.00039	<0.00059	<0.00030	0.0011	<0.00078	<0.00023	<0.00021	<0.00032	<0.00038
MW-3	4/9/2013	<0.0010	<0.00035	<0.00031	<0.00039	<0.00059	<0.00030	0.021	<0.00078	<0.00023	<0.00021	<0.00032	<0.00038
	8/22/2013	<0.0010	<0.00035	<0.00031	<0.00039	<0.00059	<0.00030	0.014	<0.00078	<0.00023	<0.00021	<0.00032	<0.00038
	8/22/2013*	<0.0010	<0.00035	<0.00031	<0.00039	<0.00059	<0.00030	0.015	<0.00078	<0.00023	<0.00021	<0.00032	<0.00038
	11/22/2013	<0.0010	<0.00035	<0.00031	<0.00039	<0.00059	<0.00030	0.0077	<0.00078	<0.00023	<0.00021	<0.00032	<0.00038
MW-4	4/9/2013	<0.0010	<0.00035	<0.00031	<0.00039	<0.00059	<0.00030	<0.00037	<0.00078	<0.00023	<0.00021	<0.00032	<0.00038
	8/22/2013	<0.0010	<0.00035	<0.00031	<0.00039	<0.00059	<0.00030	<0.00037	<0.00078	<0.00023	<0.00021	<0.00032	<0.00038
	11/22/2013	<0.0010	<0.00035	<0.00031	<0.00039	<0.00059	<0.00030	<0.00037	<0.00078	<0.00023	<0.00021	<0.00032	<0.00038
	11/22/2013*	<0.0010	<0.00035	<0.00031	<0.00039	<0.00059	<0.00030	<0.00037	<0.00078	<0.00023	<0.00021	<0.00032	<0.00038
MW-5	4/10/2013	<0.0010	<0.00035	<0.00031	<0.00039	<0.00059	<0.00030	<0.00037	<0.00078	<0.00023	<0.00021	<0.00032	<0.00038
	8/22/2013	<0.0010	<0.00035	<0.00031	<0.00039	<0.00059	<0.00030	<0.00037	<0.00078	<0.00023	<0.00021	<0.00032	<0.00038
	11/22/2013	<0.0010	<0.00035	<0.00031	<0.00039	<0.00059	<0.00030	<0.00037	<0.00078	<0.00023	<0.00021	<0.00032	<0.00038
MW-6	4/9/2013	<0.0010	<0.00035	<0.00031	<0.00039	<0.00059	<0.00030	<0.00037	<0.00078	<0.00023	<0.00021	<0.00032	<0.00038
	8/22/2013	<0.0010	<0.00035	<0.00031	<0.00039	<0.00059	<0.00030	<0.00037	<0.00078	<0.00023	<0.00021	<0.00032	<0.00038
	11/22/2013	<0.0010	<0.00035	<0.00031	<0.00039	<0.00059	<0.00030	<0.00037	<0.00078	<0.00023	<0.00021	<0.00032	<0.00038
MW-8	4/10/2013	<0.0010	<0.00035	<0.00031	<0.00039	<0.00059	<0.00030	0.0019	<0.00078	<0.00023	<0.00021	<0.00032	<0.00038
	8/22/2013	<0.0010	<0.00035	<0.00031	<0.00039	<0.00059	<0.00030	0.0046	<0.00078	<0.00023	<0.00021	<0.00032	<0.00038
	11/22/2013	<0.0010	<0.00035	<0.00031	<0.00039	<0.00059	<0.00030	0.0031	<0.00078	<0.00023	<0.00021	<0.00032	<0.00038
DW-1	4/9/2013	<0.0010	<0.00035	<0.00031	<0.00039	<0.00059	<0.00030	0.038	<0.00078	<0.00023	<0.00021	<0.00032	<0.00038
	4/9/2013*	<0.0010	<0.00035	<0.00031	<0.00039	<0.00059	<0.00030	0.038	<0.00078	<0.00023	<0.00021	<0.00032	<0.00038
	8/22/2013	<0.0010	<0.00035	<0.00031	<0.00039	<0.00059	<0.00030	0.028	<0.00078	<0.00023	<0.00021	<0.00032	<0.00038
	11/22/2013	<0.0010	<0.00035	<0.00031	<0.00039	<0.00059	<0.00030	0.026	<0.00078	<0.00023	<0.00021	<0.00032	<0.00038
DW-1-D	4/10/2013	<0.0010	<0.00035	<0.00031	<0.00039	<0.00059	<0.00030	0.0033	<0.00078	<0.00023	<0.00021	<0.00032	<0.00038
	8/22/2013	<0.0010	<0.00035	<0.00031	<0.00039	<0.00059	<0.00030	0.098	<0.00078	<0.00023	<0.00021	<0.00032	<0.00038
	11/22/2013	<0.0010	<0.00035	<0.00031	<0.00039	<0.00059	<0.00030	0.086	<0.00078	<0.00023	<0.00021	<0.00032	<0.00038
DW-2	4/10/2013	<0.0010	<0.00035	<0.00031	<0.00039	<0.00059	<0.00030	<0.00037	<0.00078	<0.00023	<0.00021	<0.00032	<0.00038
	11/22/2013	<0.0010	<0.00035	<0.00031	<0.00039	<0.00059	<0.00030	0.0011	<0.00078	<0.00023	<0.00021	<0.00032	<0.00038
DW-3	4/10/2013	<0.0010	<0.00035	<0.00031	<0.00039	<0.00059	<0.00030	0.0032	<0.00078	<0.00023	<0.00021	<0.00032	<0.00038
	11/22/2013	<0.0010	<0.00035	<0.00031	<0.00039	<0.00059	<0.00030	0.029	<0.00078	<0.00023	<0.00021	<0.00032	<0.00038
DW-4	8/22/2013	<0.0010	<0.00035	<0.00031	<0.00039	<0.00059	<0.00030	<0.00037	<0.00078	<0.00023	<0.00021	<0.00032	<0.00038
	11/22/2013	<0.0010	<0.00035	<0.00031	<0.00039	<0.00059	<0.00030	<0.00037	<0.00078	<0.00023	<0.00021	<0.00032	<0.00038

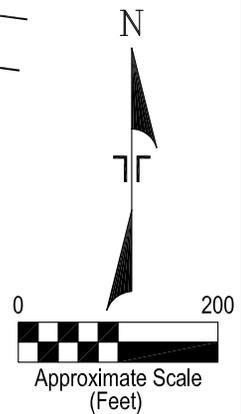
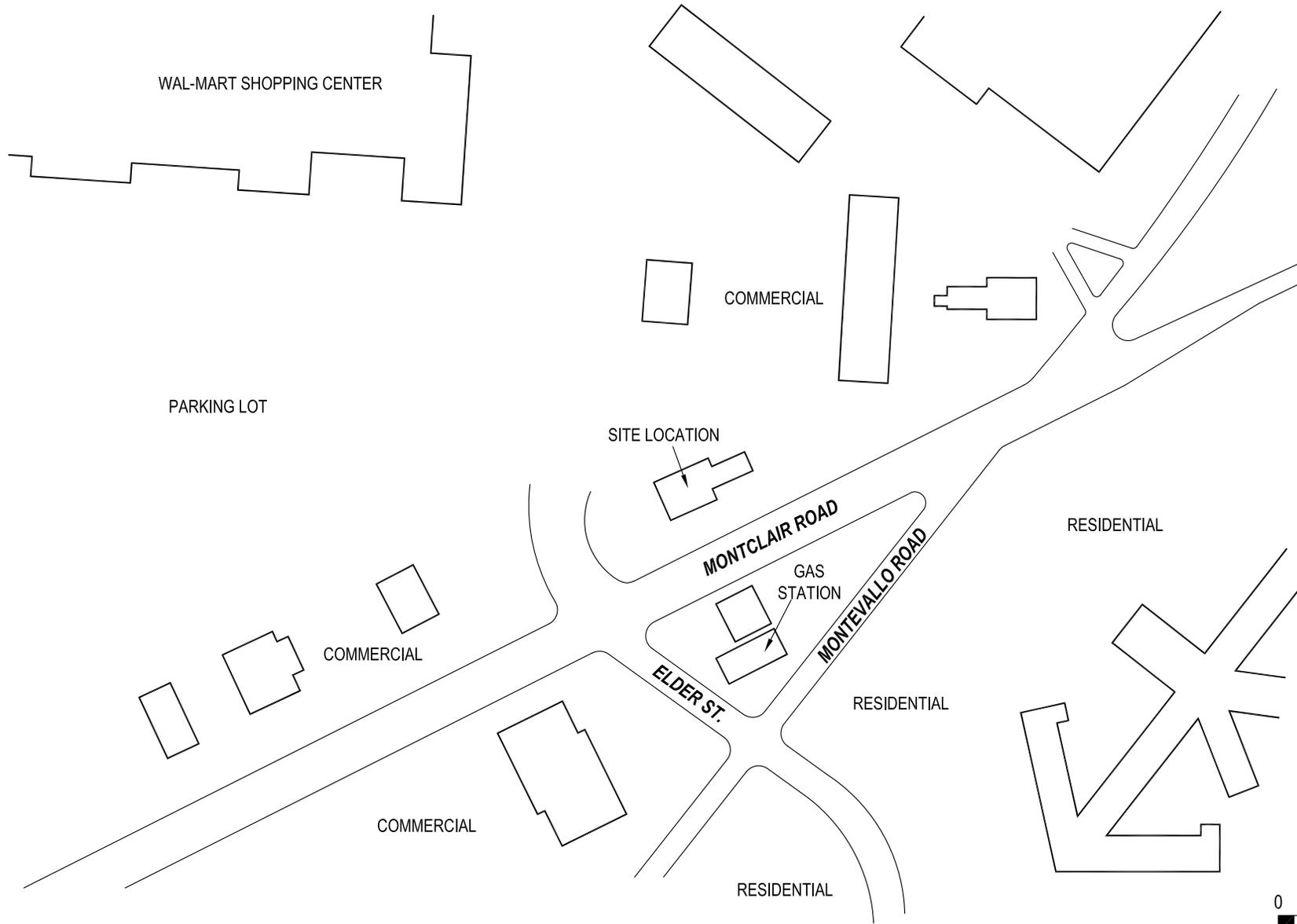
*Duplicate sample.
 EPA RSL/MCL - Regional Screening Level/Maximum Contaminant Level.
 Bold - Value exceeds EPA RSL/MCL
 Bold highlighted - Value exceeds detection limit.

Table 6 Calculation of Representative Concentrations in Groundwater
 ARBCA Evaluation
 Aladdin Montclair
 Birmingham, Jefferson County, Alabama
 Terracon Project No. E1137127

Parameter	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	1,2,4-Trimethylbenzene	1,2,3-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl chloride	Xylenes, Total	
EPA RSL/MCL	0.005	1.1	0.0000065	0.015	0.01	0.087	0.002	10	
Client Sample ID	Collect Date	Value	Value	Value	Value	Value	Value	Value	
MW-1	4/9/2013	0.0047	<0.0012	<0.00081	<0.00037	<0.00032	<0.00039	<0.00026	<0.0011
	8/22/2013	0.0037	<0.0012	<0.00081	<0.00037	<0.00032	<0.00039	<0.00026	<0.0011
	11/22/2013	0.0053	<0.0012	<0.00081	<0.00037	<0.00032	<0.00039	<0.00026	<0.0011
MW-2	4/9/2013	<0.00040	<0.0012	<0.00081	<0.00037	<0.00032	<0.00039	<0.00026	<0.0011
	8/22/2013	<0.00040	<0.0012	<0.00081	<0.00037	<0.00032	<0.00039	<0.00026	<0.0011
	11/22/2013	<0.00040	<0.0012	<0.00081	<0.00037	<0.00032	<0.00039	<0.00026	<0.0011
MW-3	4/9/2013	0.0034	<0.0012	<0.00081	<0.00037	<0.00032	<0.00039	<0.00026	<0.0011
	8/22/2013	0.0023	<0.0012	<0.00081	<0.00037	<0.00032	<0.00039	<0.00026	<0.0011
	8/22/2013*	0.0024	<0.0012	<0.00081	<0.00037	<0.00032	<0.00039	<0.00026	<0.0011
	11/22/2013	0.0024	<0.0012	<0.00081	<0.00037	<0.00032	<0.00039	<0.00026	<0.0011
MW-4	4/9/2013	<0.00040	<0.0012	<0.00081	<0.00037	<0.00032	<0.00039	<0.00026	<0.0011
	8/22/2013	<0.00040	<0.0012	<0.00081	<0.00037	<0.00032	<0.00039	<0.00026	<0.0011
	11/22/2013	<0.00040	<0.0012	<0.00081	<0.00037	<0.00032	<0.00039	0.001	<0.0011
	11/22/2013*	<0.00040	<0.0012	<0.00081	<0.00037	<0.00032	<0.00039	0.0015	<0.0011
MW-5	4/10/2013	<0.00040	<0.0012	<0.00081	<0.00037	<0.00032	<0.00039	<0.00026	<0.0011
	8/22/2013	<0.00040	<0.0012	<0.00081	<0.00037	<0.00032	<0.00039	<0.00026	<0.0011
	11/22/2013	<0.00040	<0.0012	<0.00081	<0.00037	<0.00032	<0.00039	<0.00026	<0.0011
MW-6	4/9/2013	<0.00040	<0.0012	<0.00081	<0.00037	<0.00032	<0.00039	<0.00026	<0.0011
	8/22/2013	<0.00040	<0.0012	<0.00081	<0.00037	<0.00032	<0.00039	<0.00026	<0.0011
	11/22/2013	<0.00040	<0.0012	<0.00081	<0.00037	<0.00032	<0.00039	<0.00026	<0.0011
MW-8	4/10/2013	0.0012	<0.0012	<0.00081	<0.00037	<0.00032	<0.00039	<0.00026	<0.0011
	8/22/2013	<0.00040	<0.0012	<0.00081	<0.00037	<0.00032	<0.00039	<0.00026	<0.0011
	11/22/2013	<0.00040	<0.0012	<0.00081	<0.00037	<0.00032	<0.00039	<0.00026	<0.0011
DW-1	4/9/2013	0.005	<0.0012	<0.00081	<0.00037	<0.00032	<0.00039	<0.00026	<0.0011
	4/9/2013*	0.0049	<0.0012	<0.00081	<0.00037	<0.00032	<0.00039	<0.00026	<0.0011
	8/22/2013	0.004	<0.0012	<0.00081	<0.00037	<0.00032	<0.00039	<0.00026	<0.0011
	11/22/2013	0.0038	<0.0012	<0.00081	<0.00037	<0.00032	<0.00039	<0.00026	<0.0011
DW-1-D	4/10/2013	0.0011	<0.0012	<0.00081	<0.00037	<0.00032	<0.00039	<0.00026	<0.0011
	8/22/2013	0.0078	<0.0012	<0.00081	<0.00037	<0.00032	<0.00039	<0.00026	<0.0011
	11/22/2013	0.0073	<0.0012	<0.00081	<0.00037	<0.00032	<0.00039	<0.00026	<0.0011
DW-2	4/10/2013	<0.00040	<0.0012	<0.00081	<0.00037	<0.00032	<0.00039	<0.00026	<0.0011
	11/22/2013	0.0014	<0.0012	<0.00081	<0.00037	<0.00032	<0.00039	<0.00026	<0.0011
DW-3	4/10/2013	<0.00040	<0.0012	<0.00081	<0.00037	<0.00032	<0.00039	<0.00026	<0.0011
	11/22/2013	0.0025	<0.0012	<0.00081	<0.00037	<0.00032	<0.00039	<0.00026	<0.0011
DW-4	8/22/2013	<0.00040	<0.0012	<0.00081	<0.00037	<0.00032	<0.00039	<0.00026	<0.0011
	11/22/2013	<0.00040	<0.0012	<0.00081	<0.00037	<0.00032	<0.00039	<0.00026	<0.0011

*Duplicate sample.
 EPA RSL/MCL - Regional Screening Level/Maximum Contaminant Level.
 Bold - Value exceeds EPA RSL/MCL
 Bold highlighted - Value exceeds detection limit.

FIGURES



Project Mngr:	WGN
Drawn By:	DWD
Checked By:	WGN/MRF
Approved By:	TWR

Project No.	E1137127
Scale:	AS SHOWN
File No.	AEE1137127-1
Date:	JAN. 2014

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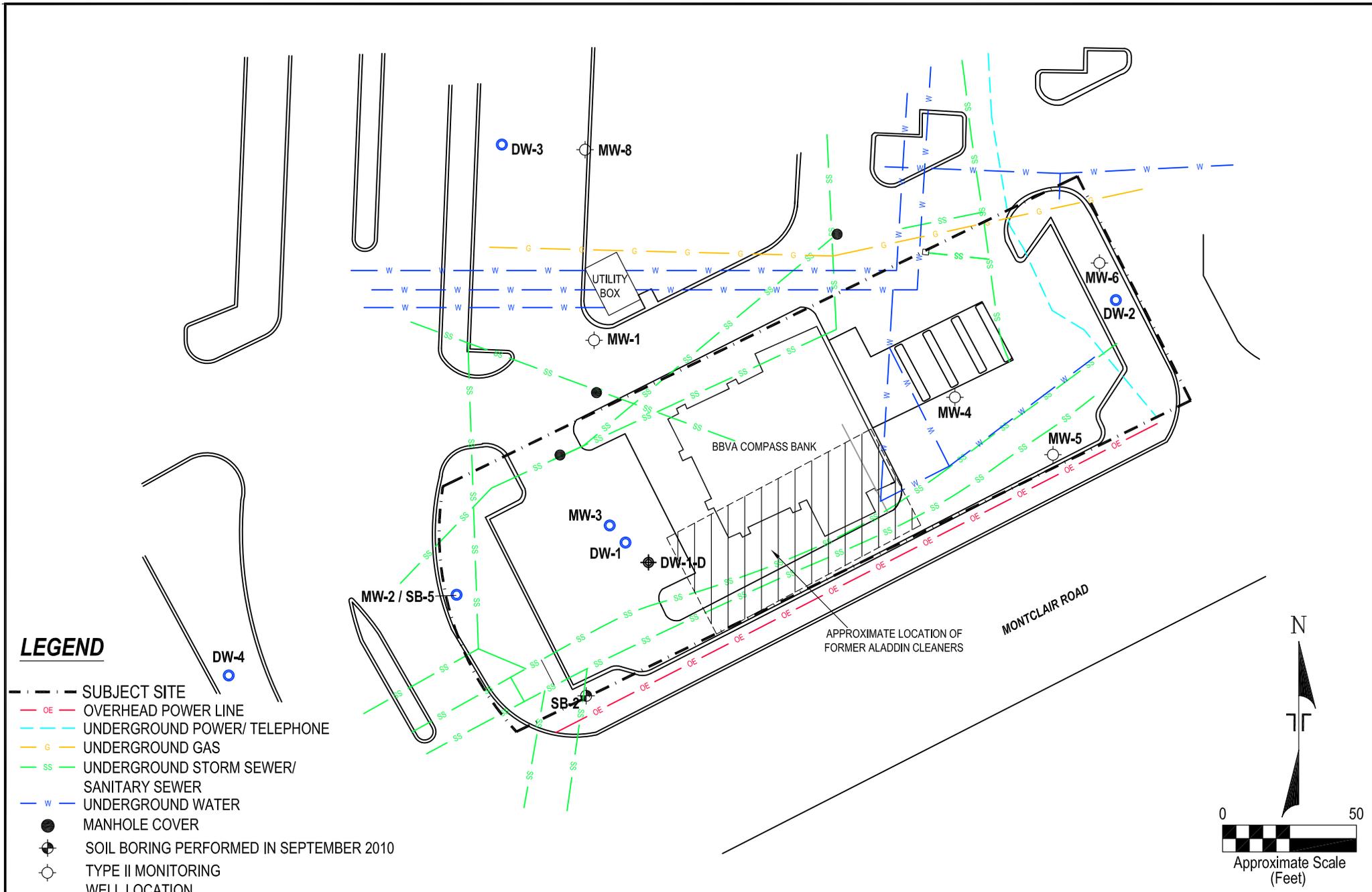
SITE VICINITY AND SURROUNDING LAND USE MAP

ARBCA EVALUATION
ALADDIN CLEANERS
1668 MONTCLAIR ROAD
BIRMINGHAM, JEFFERSON COUNTY, AL

FIGURE

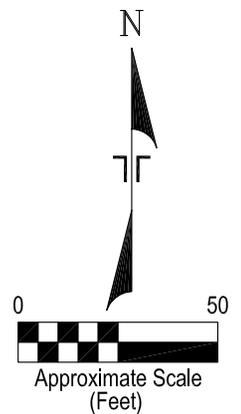
1

THIS DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES



LEGEND

- SUBJECT SITE
- OE — OVERHEAD POWER LINE
- — UNDERGROUND POWER/ TELEPHONE
- G — UNDERGROUND GAS
- SS — UNDERGROUND STORM SEWER/
SANITARY SEWER
- W — UNDERGROUND WATER
- MANHOLE COVER
- ⊕ SOIL BORING PERFORMED IN SEPTEMBER 2010
- TYPE II MONITORING WELL LOCATION
- TYPE III MONITORING WELL LOCATION
- ⊕ TYPE III (TRIPLE-CASED) MONITORING WELL LOCATION



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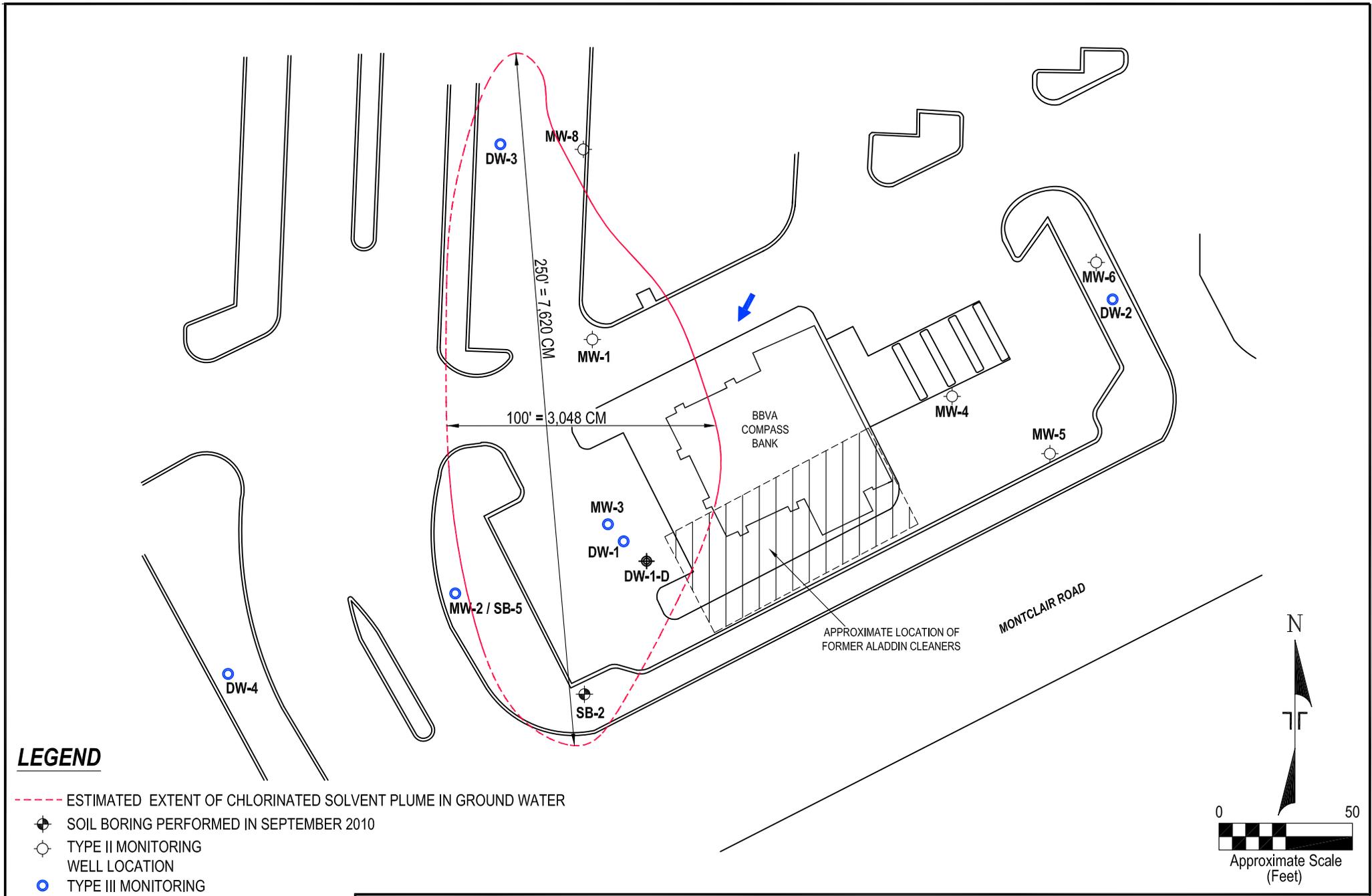
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Drawn By:	DWD	Scale:	AS SHOWN
Checked By:	WGN/MRF	File No.:	AEE1137127-2
Approved By:	TWR	Date:	JAN. 2014

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SITE MAP
ARBCA EVALUATION ALADDIN CLEANERS 1668 MONTCLAIR ROAD BIRMINGHAM, JEFFERSON COUNTY, AL

FIGURE
2



LEGEND

- - - ESTIMATED EXTENT OF CHLORINATED SOLVENT PLUME IN GROUND WATER
- SOIL BORING PERFORMED IN SEPTEMBER 2010
- TYPE II MONITORING WELL LOCATION
- TYPE III MONITORING WELL LOCATION
- TYPE III (TRIPLE-CASED) MONITORING WELL LOCATION
- SHALLOW GROUNDWATER FLOW DIRECTION

THIS DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

Project Mngr: WGN	Project No. E1137127
Drawn By: DWD	Scale: AS SHOWN
Checked By: WGN/MRF	File No. AEE1137127-3
Approved By: TWR	Date: JAN. 2014

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SOURCE AREA MAP
ARBCA EVALUATION ALADDIN CLEANERS 1668 MONTCLAIR ROAD BIRMINGHAM, JEFFERSON COUNTY, AL

FIGURE
3

Figure 4

Site Conceptual Exposure Model

EXPOSURE MODEL

SITE: 462-9515

Source and Exposure Pathways	Resident *	Commercial Worker	Trespasser	Construction Worker **
Air				
Indoor Air	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>N/A</u>
Outdoor Air	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Surficial Soil (0 to 1 ft.)				
Dermal Contact	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ingestion	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Outdoor Inhalation of Vapor Emissions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Outdoor Inhalation of Particulates	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
or				
Combined Pathway: Outdoor Inhalation of vapor emissions and particulates, Ingestion, and Dermal Contact	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Subsurface Soil (> 1 ft. to watertable)				
Indoor Inhalation of Vapor Emissions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>N/A</u>
Outdoor Inhalation of Vapor Emission	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>N/A</u>
Soil Vapor				
Indoor Inhalation of Vapor Emissions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>N/A</u>
Outdoor Inhalation of Vapor Emissions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Groundwater (First Encountered Zone)				
Indoor Inhalation of Vapor Emissions	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<u>N/A</u>
Outdoor Inhalation of Vapor Emissions	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Ingestion	<input type="checkbox"/>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>

Other Exposure Pathways

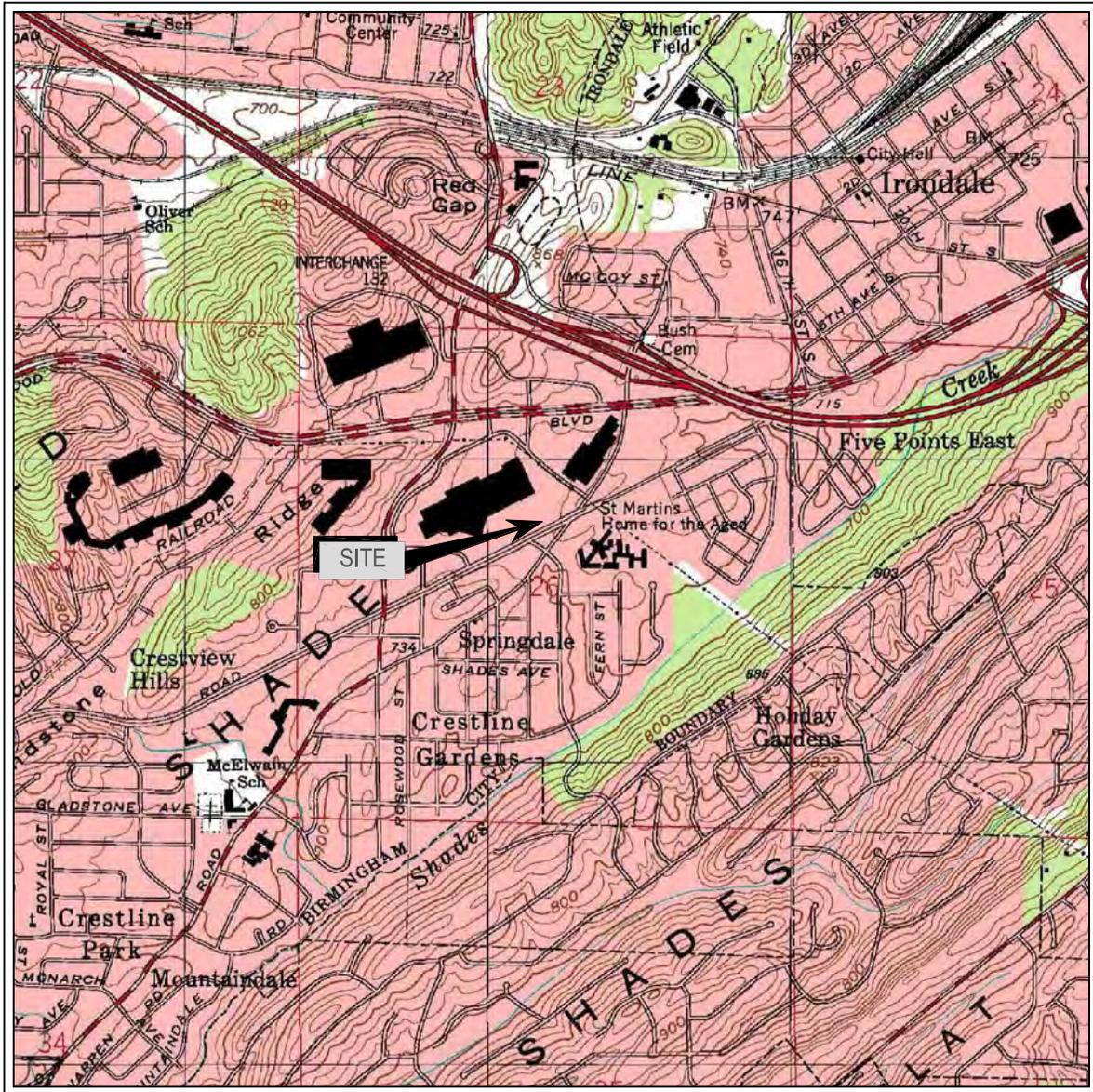
Protection of Groundwater Use	<input type="checkbox"/>
Protection of Surface Water	<input type="checkbox"/>
Soil & Groundwater Protective of Indoor Inhalation	
Resident	<input type="checkbox"/>
Commercial Worker	<input type="checkbox"/>
Trespasser	<input type="checkbox"/>

* Includes calculations for child, and adult.

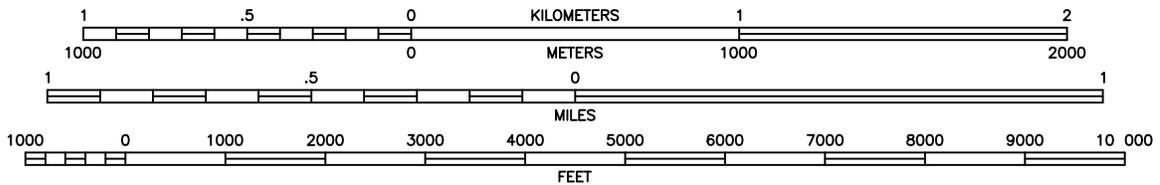
** For construction worker, thickness of surficial soil is from ground surface to depth of construction.

N/A Not Applicable

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SCALE 1:24 000



CONTOUR INTERVAL 20 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

QUADRANGLE
IRONDALE, AL
1998
7.5 MINUTE SERIES (TOPOGRAPHIC)



*INDICATES WHICH MAP SITE IS LOCATED ON

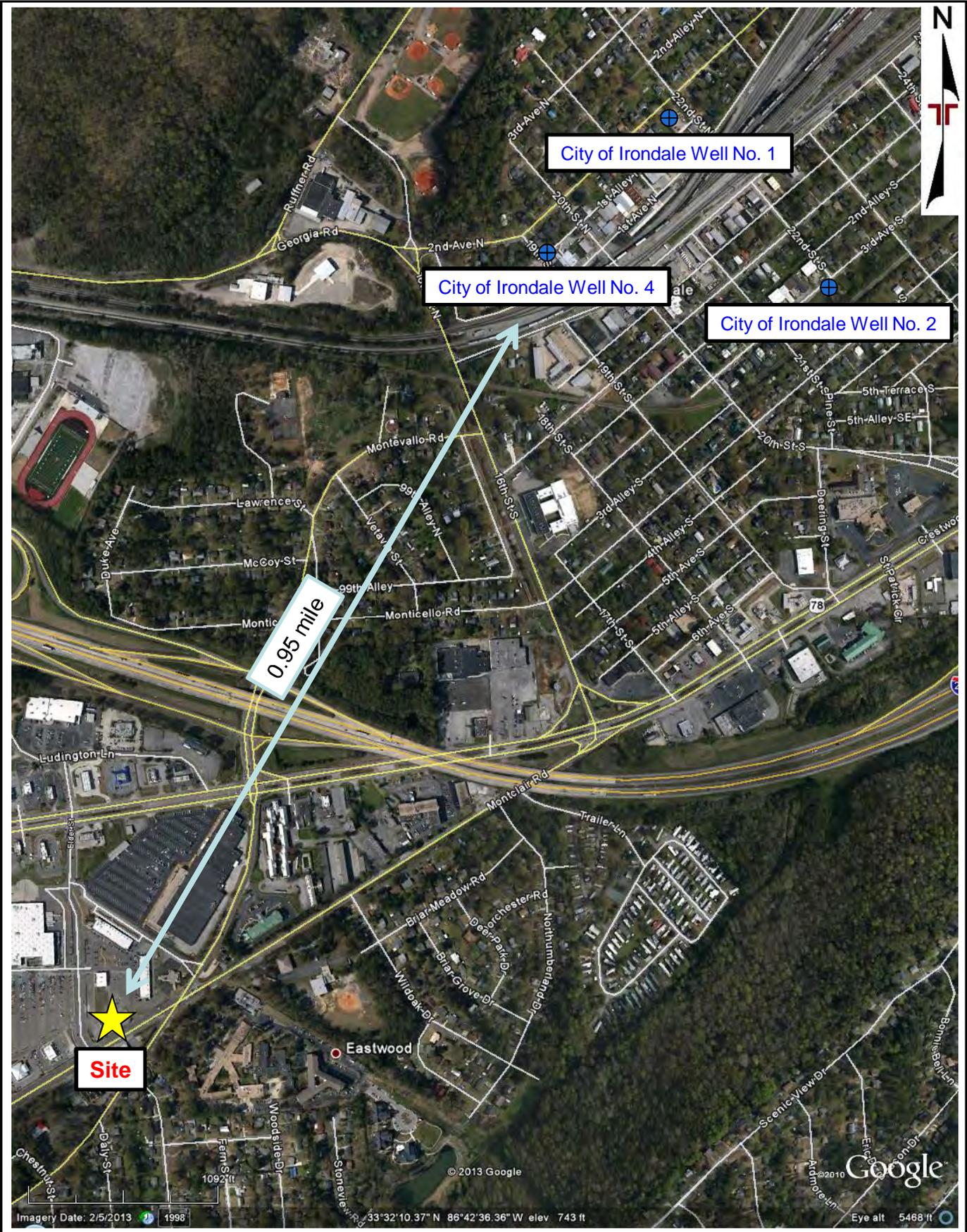
Project Mng:	WGN	Project No.	E1137127
Drawn By:	DWD	Scale:	AS SHOWN
Checked By:	WGN/MRF	File No.	AE1137127-5
Approved By:	TWR	Date:	JAN. 2014

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TOPOGRAPHIC VICINITY MAP
ARBCA EVALUATION ALADDIN CLEANERS 1668 MONTCLAIR ROAD BIRMINGHAM, JEFFERSON COUNTY, AL

FIGURE
5



Project Manager:	TN	Project No.	E1137262
Drawn By:	TN	Scale:	As Shown
Checked By:	TWR	File Name:	E1137127
Approved By:	TWR	Date:	01/13/2014

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Water Supply Well Locations Map

ARBCA Evaluation

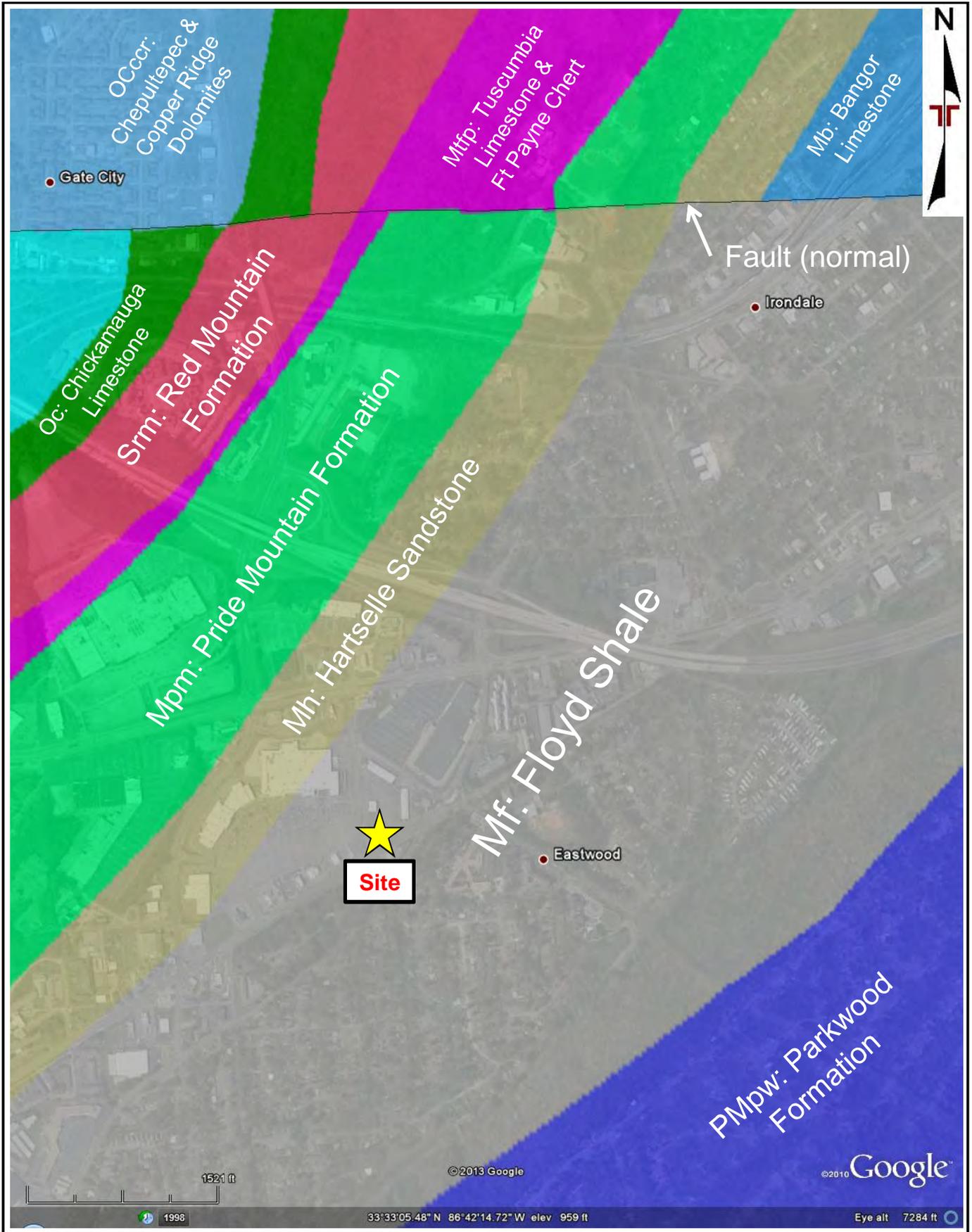
Aladdin Cleaners - Montclair

Birmingham, Jefferson County, Alabama

Figure	6
--------	---

Figure 7

Land Use Map for at Least a 500-foot Radius
(See Figure 1)



Project Manager:	TN
Drawn By:	TN
Checked By:	TWR
Approved By:	TWR

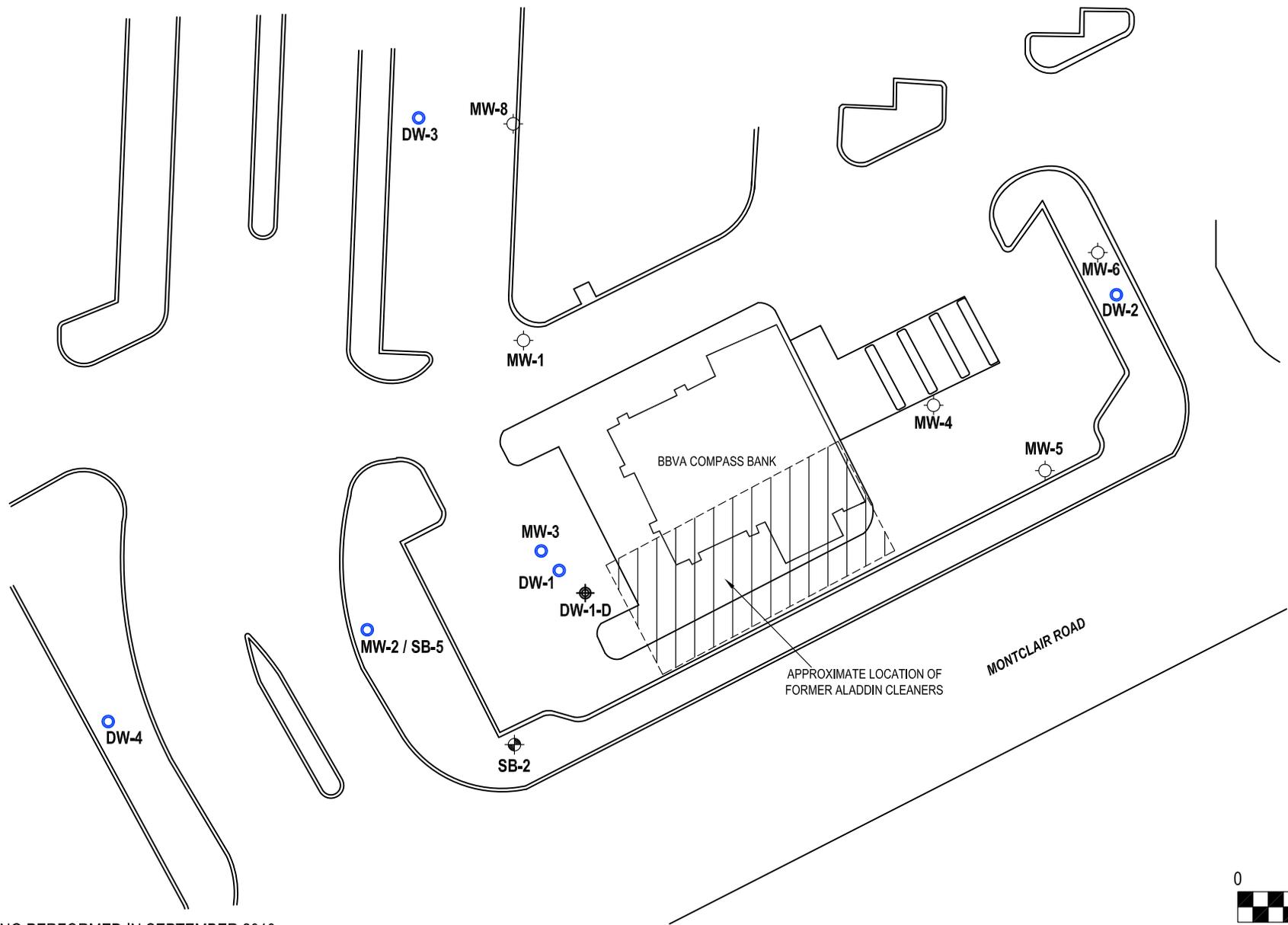
Project No.	E1137262
Scale:	As Shown
File Name:	E1137127
Date:	01/13/2014

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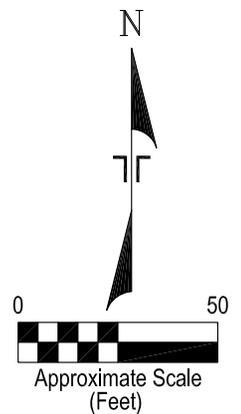
Site Geologic Map
 ARBCA Evaluation
 Aladdin Cleaners - Montclair
 Birmingham, Jefferson County, Alabama

Figure
8



LEGEND

- ⊕ SOIL BORING PERFORMED IN SEPTEMBER 2010
- TYPE II MONITORING WELL LOCATION
- TYPE III MONITORING WELL LOCATION
- ⊕ TYPE III (TRIPLE-CASED) MONITORING WELL LOCATION



THIS DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

Project Mng:	WGN	Project No.	E1137127
Drawn By:	DWD	Scale:	AS SHOWN
Checked By:	WGN/MRF	File No.	AEE1137127-9
Approved By:	TWR	Date:	JAN. 2014

Terracon
Consulting Engineers and Scientists

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MONITORING WELL LOCATION DIAGRAM
ARBCA EVALUATION ALADDIN CLEANERS 1668 MONTCLAIR ROAD BIRMINGHAM, JEFFERSON COUNTY, AL

FIGURE
9

Figure 10

Soil Boring Logs and Monitoring Well Construction Diagrams

LOG OF WELL NO. SB-1/MW-1

CLIENT Aladdin Cleaners & Laundry, Inc.	
SITE 1668 Montclair Road Birmingham, Alabama	PROJECT Aladdin Montclair

GRAPHIC LOG	DESCRIPTION	WELL DETAIL	DEPTH, ft.	SAMPLES				TESTS	
				USCS SYMBOL	NUMBER	TYPE	RECOVERY, in.	SPT - N BLOWS / ft.	WATER CONTENT, %
	BOREHOLE DIA.: 8.25 in WELL DIA.: in TOP OF PROTECTOR PIPE: TOP OF CASING: 719.68 ft GROUND SURFACE ELEV.: 720 ft								
0.25	0-3" Asphalt	720							
0.67	3"-8" Base Gravel	719.5							
	<u>CLAYEY GRAVEL</u> , brown and yellow-orange, cherty, fill material, dry.								
4		716							
	<u>CLAYEY GRAVEL</u> , yellow-orange, dry, sandstone fragments in shoe of sampler.		5	1	SS				
6		714							
10	No Recovery - rock fragments in shoe, spoon is wet.	710							
13	No Recovery - fractured limestone, wet.	707							
	Auger Refusal at 13 feet								

The stratification lines represent the approximate boundary lines between soil and rock types: in-situ, the transition may be gradual.

* ND indicates a reading of less than the field detection limit (FDL) of one (1) part per million isobutylene equivalents (ppmi).

WATER LEVEL OBSERVATIONS, ft

WL	▽ 8.5	▽ 9	
WL	▽	▽	
WL			



BORING STARTED	8-16-10
BORING COMPLETED	8-16-10
RIG	FOREMAN
LOGGED	AW
JOB #	E1107021

WELL E1107021 ALADDIN MONTCLAIR.GPJ TERRACON GDT 1/7/11

LOG OF BORING NO. SB-2

CLIENT **Aladdin Cleaners & Laundry, Inc.**

SITE **1668 Montclair Road
Birmingham, Alabama** PROJECT **Aladdin Montclair**

GRAPHIC LOG	DESCRIPTION	WELL DETAIL	DEPTH, ft.	USCS SYMBOL	SAMPLES			TESTS	
					NUMBER	TYPE	RECOVERY, in.	SPT - N BLOWS / ft.	WATER CONTENT, %
	BOREHOLE DIA.: 8.25 in WELL DIA.: in TOP OF PROTECTOR PIPE: ft TOP OF CASING: ft GROUND SURFACE ELEV.: 718 ft								
1	0-1' Topsoil and Gravelly Fill	717							
	<u>GRAVELLY CLAY FILL</u>								
2.5		715.5							
	<u>CLAY with GRAVEL FILL, moist.</u>								
4.5		713.5							
5	CLAY, yellow-orange, silty, some gravel, moist, plastic, limestone fragments.	713	5						
7	Auger Refusal at 5 feet	711							
	Void approximately 7'-9'								
9		709							
9.5		708.5							
	Void approximately 9.5'-10.5'		10						
10.5		707.5							
10.8		707							
	Void approximately 10.8'-12.2'								
12.2		706							
12.5	End of Boring at approximately 12.5'	705.5							

The stratification lines represent the approximate boundary lines between soil and rock types: in-situ, the transition may be gradual.

* ND indicates a reading of less than the field detection limit (FDL) of one (1) part per million isobutylene equivalents (ppmi).

WATER LEVEL OBSERVATIONS, ft

WL	∇ None	∇
WL	∇	∇
WL		



BORING STARTED	8-16-10
BORING COMPLETED	8-16-10
RIG	FOREMAN
LOGGED AW	JOB # E1107021

WELL E1107021 ALADDIN MONTCLAIR.GPJ TERRACON.GDT 1/7/11

LOG OF WELL NO. SB-3/MW-3

CLIENT
Aladdin Cleaners & Laundry, Inc.

SITE
1668 Montclair Road
Birmingham, Alabama

PROJECT
Aladdin Montclair

GRAPHIC LOG	DESCRIPTION	WELL DETAIL	DEPTH, ft.	USCS SYMBOL	SAMPLES			TESTS	
					NUMBER	TYPE	RECOVERY, in.	SPT - N BLOWS / ft.	WATER CONTENT, %
	BOREHOLE DIA.: 12.04 in WELL DIA.: in TOP OF PROTECTOR PIPE: 718.67 ft TOP OF CASING: 718.98 ft GROUND SURFACE ELEV.: 718.98 ft								
0.25	0-3" Asphalt	718.5							
1	3"-1' Base Gravel	718							
1.25	3" of Concrete at 1'	717.5							
2		717							
	SILTY CLAY, reddish-orange, some chert gravel, moist.								
4	SILT and FINE SAND, yellow-orange, dry.	715							
	SILT and FINE SAND, yellow-orange, dry, soft.		5		1	SS			
6		713							
	CLAY, some silty, yellow-orange and light gray mottled, moderate to high plasticity, moist.								
10.5	Auger Refusal at 10.5 feet	708.5	10						
	Outer Casing set at 11.75 feet								
	Limestone		15						
	▽								
	Limestone - softer, damp to wet.		20						
21.34	End of Boring at 21'4"	697.5							

The stratification lines represent the approximate boundary lines between soil and rock types: in-situ, the transition may be gradual.

* ND indicates a reading of less than the field detection limit (FDL) of one (1) part per million isobutylene equivalents (ppmi).

WATER LEVEL OBSERVATIONS, ft

WL	▽ 16.5	▼ 18.5
WL	▽	▼
WL		



BORING STARTED		8-16-10	
BORING COMPLETED		8-18-10	
RIG		FOREMAN	
LOGGED	AW	JOB #	E1107021

WELL E1107021 ALADDIN MONTCLAIR.GPJ TERRACON.GDT 1/7/11

LOG OF WELL NO. SB-4/MW-4

CLIENT Aladdin Cleaners & Laundry, Inc.	
SITE 1668 Montclair Road Birmingham, Alabama	PROJECT Aladdin Montclair

GRAPHIC LOG	DESCRIPTION	WELL DETAIL	DEPTH, ft.	USCS SYMBOL	SAMPLES				TESTS	
					NUMBER	TYPE	RECOVERY, in.	SPT - N BLOWS / ft.	WATER CONTENT, %	FIELD VAPOR TEST (PPM)*
0.25	0-3" Asphalt	720								
1.75	GRAVEL and SAND FILL	718.5								
4	CLAYEY SILT and FINE SAND , gray-brown, gravelly, root fragments, organic odor, dry.	716								
	4-6' Shelby Tube Collected		5							
	SILT and CLAY , very gravelly, gray, some reddish-brown, some plasticity, moist.									
10	▽	710								
11.5	SILT and CLAY , with some gravel, gray, wet (only 3" recovery) - rock in shoe.	708.5								
	Auger refusal at 11.5 feet									

The stratification lines represent the approximate boundary lines between soil and rock types: in-situ, the transition may be gradual.

* ND indicates a reading of less than the field detection limit (FDL) of one (1) part per million isobutylene equivalents (ppmi).

WATER LEVEL OBSERVATIONS, ft

WL	▽ 8.5	▽ 9
WL	▽	▽
WL		



BORING STARTED	8-17-10
BORING COMPLETED	8-17-10
RIG	FOREMAN
LOGGED	AW
JOB #	E1107021

WELL E1107021 ALADDIN MONTCLAIR.GPJ TERRACON GDT 1/7/11

LOG OF WELL NO. SB-5/MW-2

CLIENT Aladdin Cleaners & Laundry, Inc.	
SITE 1668 Montclair Road Birmingham, Alabama	PROJECT Aladdin Montclair

GRAPHIC LOG	DESCRIPTION	WELL DETAIL	DEPTH, ft.	SAMPLES			TESTS	
				USCS SYMBOL	NUMBER	TYPE	RECOVERY, in.	SPT - N BLOWS / ft.
	BOREHOLE DIA.: 12.04 in							
	WELL DIA.: in							
	TOP OF PROTECTOR PIPE: ft							
	TOP OF CASING: 718.14 ft							
	GROUND SURFACE ELEV.: 718.3 ft							
0.34	0-4" Topsoil	718	0.34					
0.58	3" Asphalt	717.5	0.58					
2	FILL Material - brick, gravel, etc. to 2 feet.	716.5	2					
4	SILT and FINE SAND, yellow-orange, dry, loose.	714.5	4		1	SS		
8	SILT and FINE SAND, yellow-orange, dry, loose with rock fragments.	710	8		2	SS		
8.5	CLAY, very silty with fine sand, yellow-orange, moist to wet.	710	8.5					
	Auger Refusal at 8.5 feet							
	LIMESTONE							
	Outer casing set at 10 feet.							
22.5	End of Boring at 22.5 feet	696	22.5					

The stratification lines represent the approximate boundary lines between soil and rock types: in-situ, the transition may be gradual.

* ND indicates a reading of less than the field detection limit (FDL) of one (1) part per million isobutylene equivalents (ppmi).

WATER LEVEL OBSERVATIONS, ft	
WL	▽ 18.5 ▼ 21
WL	▽ ▼
WL	



BORING STARTED	8-17-10
BORING COMPLETED	8-20-10
RIG	FOREMAN
LOGGED	AW JOB # E1107021

WELL E1107021 ALADDIN MONTCLAIR GPJ TERRACON.GDT 1/7/11

LOG OF WELL NO. DW-1

CLIENT **Aladdin Cleaners & Laundry, Inc.**

SITE **1668 Montclair Road
Birmingham, Alabama** PROJECT **Aladdin Montclair**

GRAPHIC LOG	DESCRIPTION	WELL DETAIL	DEPTH, ft.	USCS SYMBOL	SAMPLES			TESTS	
					NUMBER	TYPE	RECOVERY, in.	SPT - N BLOWS / ft.	WATER CONTENT, %
	BOREHOLE DIA.: 12.04 in WELL DIA.: in TOP OF PROTECTOR PIPE: ft TOP OF CASING: 718.68 ft GROUND SURFACE ELEV.: 718.90 ft								
0.25	0-3" Asphalt	718.5							
1	3"-1' Base Gravel	718							
1.25		717.5							
2	3" of Concrete at 1'	717							
4		715	5						
6	SILTY CLAY, reddish-orange, some chert gravel, moist.	713							
10.5	SILT and FINE SAND, yellow-orange, dry, soft.	708.5	10						
	CLAY, some silty, yellow-orange and light gray mottled, moderate to high plasticity, moist.		15						
	Auger Refusal at 10.5 feet		20						
	Limestone		25						
	Outer Casing set at 25 feet		30						
	Limestone		35						
			40						
			45						
			50						
55	End of Boring at 55'	664	55						

The stratification lines represent the approximate boundary lines between soil and rock types: in-situ, the transition may be gradual.

* ND indicates a reading of less than the field detection limit (FDL) of one (1) part per million isobutylene equivalents (ppm).

WATER LEVEL OBSERVATIONS, ft

WL	▽ 7.06	▽ 54
WL	▽	▽
WL		



BORING STARTED	8-18-10
BORING COMPLETED	8-20-10
RIG	FOREMAN
LOGGED	AW
JOB #	E1107021

WELL E:1107021 ALADDIN MONTCLAIR.GPJ TERRACON.GDT 1/7/11

WELL LOG NO. DW-1-D

PROJECT: Former Aladdin Cleaners

CLIENT: ADEM

SITE: 1668 Montclair Road
Birmingham, Alabama

P.C. Pattison

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. ENVIRONMENTAL SMART LOG ALADDIN CLEANER BORING AND WELL LOGS.GPJ ENV STANDARD 2012.GDT 4/23/13

GRAPHIC LOG	LOCATION	INSTALLATION DETAILS	DEPTH (ft)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	OVA/PID (ppm)	SAMPLE COLLECTION TIME	SAMPLE SENT TO LAB (ID NUMBER)
	DEPTH	Well Completion: Surface Mount							
	MATERIAL DESCRIPTION								
0.3	FILL - Gray sand and gravel, sub-base aggregate								
1.5	FILL - Black SILT with red brick fragments								
2.5	FILL - Red CLAY								
3.0									
5.0	Reddish orange clayey SILT, some fine sand and black striations, moist		5						
	Reddish orange silty Clay, trace coarse sand, some black mottling, moist								
10.5			10						8-10
	Competent Limestone, gray to light gray								
25.5	8 inch outer casing, bottom set at 25.5 ft bgs		25	▽					
			30						
			35						
			40						
			45						
			50						
			55						

The stratification lines represent the approximate transition between differing soil types and/or rock types; in-situ these transitions may be gradual or may occur at different depths than shown.

Hammer Type: Automatic

Advancement Method:
Advanced with split spoon to Bedrock (10.5'), then 8" rock bit to 25.5', then switched to 6" automatic hammer to 60', and finally switched to 4" automatic hammer to 80'.

Abandonment Method:
Well installation

Notes:
8" d. outer casing set at 25.5 ft bgs and grouted with cement bentonite mix .15-25.5 ft bgs; 6" d. inner casing set at 60 ft bgs and grouted with cement bentonite mix .25-60 ft bgs; screened interval 75-80 ft bgs; #2 sand filter pack 73-80 ft bgs; hydrated bentonited chips 71-73 ft bgs; solid riser .25-75 ft bgs and grouted with cement bentonite mix .75-71 ft bgs; 8" d. flush mount protective cover at surface

WATER LEVEL OBSERVATIONS
▽ WD



Well Started: 4/1/2013	
Drill Rig: Air Rotary	Driller: RSD
Project No.: E1117070	Exhibit: B-1

WELL LOG NO. DW-1-D

PROJECT: Former Aladdin Cleaners

CLIENT: ADEM

SITE: 1668 Montclair Road
Birmingham, Alabama

P.C. Pattison

GRAPHIC LOG	LOCATION		DEPTH (ft)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	OV/APID (ppm)	SAMPLE COLLECTION TIME	SAMPLE SENT TO LAB (ID NUMBER)
	DEPTH	MATERIAL DESCRIPTION							
60.0		<u>Competent Limestone, gray to light gray</u> (continued)	60						
		<u>6 inch inner casing, bottom set at 60 ft bgs</u>	65						
			70						
			75						
80.0		Boring Terminated at 80 Feet	80						



The stratification lines represent the approximate transition between differing soil types and/or rock types; in-situ these transitions may be gradual or may occur at different depths than shown.

Hammer Type: Automatic

Advancement Method:
Advanced with split spoon to Bedrock (10.5'), then 8" rock bit to 25.5', then switched to 6" automatic hammer to 60', and finally switched to 4" automatic hammer to 80'.

Abandonment Method:
Well installation

Notes:
8" d. outer casing set at 25.5 ft bgs and grouted with cement bentonite mix .15-25.5 ft bgs; 6"d. inner casing set at 60 ft bgs and grouted with cement bentonite mix .25-60 ft bgs; screened interval 75-80 ft bgs; #2 sand filter pack 73-80 ft bgs; hydrated bentonited chips 71-73 ft bgs; solid riser .25-75 ft bgs and grouted with cement bentonite mix .75-71 ft bgs; 8" d. flush mount protective cover at surface

WATER LEVEL OBSERVATIONS
<i>WD</i>



Well Started: 4/1/2013	
Drill Rig: Air Rotary	Driller: RSD
Project No.: E1117070	Exhibit: B-2

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. ENVIRONMENTAL SMART LOG ALADDIN CLEANER BORING AND WELL LOGS.GPJ ENV STANDARD 2012.GDT 4/23/13

WELL LOG NO. DW-2

PROJECT: Former Aladdin Cleaners

CLIENT: ADEM

SITE: 1668 Montclair Road
Birmingham, Alabama

P.C. Pattison

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. ENVIRONMENTAL SMART LOG ALADDIN CLEANER BORING AND WELL LOGS.GPJ ENV STANDARD 2012.GDT 4/23/13

GRAPHIC LOG	LOCATION	INSTALLATION DETAILS	DEPTH (ft)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	OVA/PID (ppm)	SAMPLE COLLECTION TIME	SAMPLE SENT TO LAB (ID NUMBER)
	DEPTH	Well Completion: Surface Mount							
	MATERIAL DESCRIPTION								
0.3	FILL - Gray sand and gravel, sub-base aggregate, moist								
1.0	FILL - Light brown CLAY with silt, some redbrick fragments, trace fine gravel, reddish orange staining, moist								
3.0	Brown silty CLAY, some fine sand, trace coarse gravel, very moist								
5.0	Brown gravelly CLAY, some fine sand, some light gray and reddish orange mottling, moist		5		Hand	10	0	17:30	
10.5	Competent limestone, gray to light gray		10		Hand	12	0	17:50	
25.5	6 inch outer casing, bottom set at 25.5 ft bgs		25						
55.0		-2" riser, cement bentonite grout -Hydrated bentonite chips -#2 sand filter pack -2"d x 5'L sch 40 PVC 10 slot screen	55			8	0	18:00	8-10

The stratification lines represent the approximate transition between differing soil types and/or rock types; in-situ these transitions may be gradual or may occur at different depths than shown.

Hammer Type: Automatic

Advancement Method:
Advanced with split spoon to bedrock (10.5'), then switched to 6" automatic hammer to 25.5', and finally switched to 4" automatic hammer to 55'.

Abandonment Method:
Well installation

Notes:
6" d. outer casing set at 25.5 ft bgs and grouted with cement bentonite mix .25-25.5 ft bgs; screened interval 50-55 ft bgs; #2 sand filter pack 48-55 ft bgs; hydrated bentonited chips 46-48 ft bgs; solid riser .25-50 ft bgs and grouted with cement bentonite mix .75-46 ft bgs; 8" d. flush mount protective cover at surface

WATER LEVEL OBSERVATIONS
<i>Not Observed</i>



Well Started: 4/3/2013	
Drill Rig: Air Rotary	Driller: RSD
Project No.: E1117070	Exhibit: B-3

WELL LOG NO. DW-2

PROJECT: Former Aladdin Cleaners

CLIENT: ADEM

**SITE: 1668 Montclair Road
Birmingham, Alabama**

P.C. Pattison

GRAPHIC LOG	LOCATION	DEPTH (ft)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	OV/APID (ppm)	SAMPLE COLLECTION TIME	SAMPLE SENT TO LAB (ID NUMBER)
	DEPTH MATERIAL DESCRIPTION							
	<i>Boring Terminated at 55 Feet</i>							

The stratification lines represent the approximate transition between differing soil types and/or rock types; in-situ these transitions may be gradual or may occur at different depths than shown.

Hammer Type: Automatic

Advancement Method:
Advanced with split spoon to bedrock (10.5'), then switched to 6" automatic hammer to 25.5', and finally switched to 4" automatic hammer to 55'.

Abandonment Method:
Well installation

Notes:
6" d. outer casing set at 25.5 ft bgs and grouted with cement bentonite mix .25-25.5 ft bgs; screened interval 50-55 ft bgs; #2 sand filter pack 48-55 ft bgs; hydrated bentonited chips 46-48 ft bgs; solid riser .25-50 ft bgs and grouted with cement bentonite mix .75-46 ft bgs; 8" d. flush mount protective cover at surface

WATER LEVEL OBSERVATIONS

Not Observed



Well Started: 4/3/2013

Drill Rig: Air Rotary

Project No.: E1117070

Driller: RSD

Exhibit: B-4

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. ENVIRONMENTAL SMART LOG ALADDIN CLEANER BORING AND WELL LOGS.GPJ ENV STANDARD 2012.GDT 4/23/13

WELL LOG NO. DW-3

PROJECT: Former Aladdin Cleaners

CLIENT: ADEM

SITE: 1668 Montclair Road
Birmingham, Alabama

P.C. Pattison

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. ENVIRONMENTAL SMART LOG ALADDIN CLEANER BORING AND WELL LOGS.GPJ ENV STANDARD 2012.GDT 4/23/13

GRAPHIC LOG	LOCATION	INSTALLATION DETAILS	DEPTH (ft)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	OVA/PID (ppm)	SAMPLE COLLECTION TIME	SAMPLE SENT TO LAB (ID NUMBER)
	DEPTH	Well Completion: Surface Mount							
	MATERIAL DESCRIPTION								
0.3	FILL - Gray sand and gravel, sub-base aggregate, moist								
1.0	FILL - Reddish orange clayey SILT, some black mottling, moist								
3.0	Reddish orange clayey SILT, some fine sand, trace fine-well rounded gravel, some reddish brown nodules and light gray mottling, moist								
5.0	Reddish orange clayey SILT, some fine sand and limestone fragments		5		Hand	24	0	21:35	
12.0	Competent limestone, gray to light gray		10		Hand	22	0	21:40	
27.0	6 inch outer casing, bottom set at 27 ft bgs		15	▽	Hand	21	0	21:53	8-10
55.0		-2" riser, cement bentonite grout -Hydrated bentonite chips -#2 sand filter pack -2"d x 5'L sch 40 PVC 10 slot screen	20						
			25						
			30						
			35						
			40						
			45						
			50						
			55						

The stratification lines represent the approximate transition between differing soil types and/or rock types; in-situ these transitions may be gradual or may occur at different depths than shown.

Hammer Type: Automatic

Advancement Method:
Advanced with split spoon to bedrock (12'), then switched to 6" automatic hammer to 27', and finally switched to 4" automatic hammer to 55'.

Abandonment Method:
Well installation

Notes:
6" d. outer casing set at 27 ft bgs and grouted with cement bentonite mix .25-27 ft bgs; screened interval 50-55 ft bgs; #2 sand filter pack 48-55 ft bgs; hydrated bentonite chips 46-48 ft bgs; solid riser .25-50 ft bgs and grouted with cement bentonite mix .75-46 ft bgs; 8" d. flush mount protective cover at surface

WATER LEVEL OBSERVATIONS

▽ WD



Well Started: 4/2/2013

Drill Rig: Air Rotary

Project No.: E1117070

Driller: RSD

Exhibit: B-5

WELL LOG NO. DW-3

PROJECT: Former Aladdin Cleaners

CLIENT: ADEM

**SITE: 1668 Montclair Road
Birmingham, Alabama**

P.C. Pattison

GRAPHIC LOG	LOCATION	DEPTH (ft)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	OVA/PID (ppm)	SAMPLE COLLECTION TIME	SAMPLE SENT TO LAB (ID NUMBER)
	DEPTH MATERIAL DESCRIPTION							
	<i>Boring Terminated at 55 Feet</i>							

The stratification lines represent the approximate transition between differing soil types and/or rock types; in-situ these transitions may be gradual or may occur at different depths than shown.

Hammer Type: Automatic

Advancement Method:
Advanced with split spoon to bedrock (12'), then switched to 6" automatic hammer to 27', and finally switched to 4" automatic hammer to 55'.

Abandonment Method:
Well installation

Notes:
6" d. outer casing set at 27 ft bgs and grouted with cement bentonite mix .25-27 ft bgs; screened interval 50-55 ft bgs; #2 sand filter pack 48-55 ft bgs; hydrated bentonited chips 46-48 ft bgs; solid riser .25-50 ft bgs and grouted with cement bentonite mix .75-46 ft bgs; 8" d. flush mount protective cover at surface

WATER LEVEL OBSERVATIONS

∇ WD



Well Started: 4/2/2013

Drill Rig: Air Rotary

Project No.: E1117070

Driller: RSD

Exhibit: B-6

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. ENVIRONMENTAL SMART LOG ALADDIN CLEANER BORING AND WELL LOGS.GPJ ENV STANDARD 2012.GDT 4/23/13

WELL LOG NO. DW-4

PROJECT: Former Aladdin Cleaners

CLIENT: ADEM

SITE: 1668 Montclair Road
Birmingham, Alabama

P.C. Pattison

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. ENVIRONMENTAL SMART LOG ALADDIN CLEANER BORING AND WELL LOGS.GPJ ENV STANDARD 2012.GDT 4/23/13

GRAPHIC LOG	LOCATION	INSTALLATION DETAILS	DEPTH (ft)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (in.)	O/V/PI/D (ppm)	SAMPLE COLLECTION TIME	SAMPLE SENT TO LAB (ID NUMBER)
	DEPTH MATERIAL DESCRIPTION	Well Completion: Surface Mount							
0.3	FILL - Gray sand and gravel, sub-base aggregate, moist								
1.0	FILL - Brown Gravelly CLAY, some sand, moist; at 2.5 ft bgs transitions to reddish brown CLAY with light gray mottling, moist				Hand	20	0	10:05	1-3
3.0	No Recovery		5		Hand				
8.0	Competent Limestone, gray to light gray		10					11:45 on 4/5/13	6-8
23.0	6 inch outer casing, bottom set at 23 ft bgs		20	▽					
55.0		-2" riser, cement bentonite grout -Hydrated bentonite chips -#2 sand filter pack -2"d x 5'L sch 40 PVC 10 slot screen	55						

The stratification lines represent the approximate transition between differing soil types and/or rock types; in-situ these transitions may be gradual or may occur at different depths than shown.

Hammer Type: Automatic

Advancement Method:
Advanced with split spoon to bedrock (8'), then switched to 6" automatic hammer to 23', and finally switched to 4" automatic hammer to 55'.

Abandonment Method:
Well installation

Notes:
6" d. outer casing set at 23 ft bgs and grouted with cement bentonite mix .25-23 ft bgs; screened interval 50-55 ft bgs; #2 sand filter pack 48-55 ft bgs; hydrated bentonite chips 46-48 ft bgs; solid riser .25-50 ft bgs and grouted with cement bentonite mix .75-46 ft bgs; 8" d. flush mount protective cover at surface Shelby tube collected on 4/5/13 from 6-8 ft bgs and approximately 4 ft north of DW-4 well boring

WATER LEVEL OBSERVATIONS
▽ WD



Well Started: 4/3/2013	
Drill Rig: Air Rotary	Driller: RSD
Project No.: E1117070	Exhibit: B-7

WELL LOG NO. DW-4

PROJECT: Former Aladdin Cleaners

CLIENT: ADEM

SITE: 1668 Montclair Road
Birmingham, Alabama

P.C. Pattison

GRAPHIC LOG	LOCATION	DEPTH (ft)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	OV/APID (ppm)	SAMPLE COLLECTION TIME	SAMPLE SENT TO LAB (ID NUMBER)
	DEPTH MATERIAL DESCRIPTION							
	<i>Boring Terminated at 55 Feet</i>							

The stratification lines represent the approximate transition between differing soil types and/or rock types; in-situ these transitions may be gradual or may occur at different depths than shown.

Hammer Type: Automatic

Advancement Method:
Advanced with split spoon to bedrock (8'), then switched to 6" automatic hammer to 23', and finally switched to 4" automatic hammer to 55'.

Abandonment Method:
Well installation

Notes:
6" d. outer casing set at 23 ft bgs and grouted with cement bentonite mix .25-23 ft bgs; screened interval 50-55 ft bgs; #2 sand filter pack 48-55 ft bgs; hydrated bentonited chips 46-48 ft bgs; solid riser .25-50 ft bgs and grouted with cement bentonite mix .75-46 ft bgs; 8" d. flush mount protective cover at surface Shelby tube collected on 4/5/13 from 6-8 ft bgs and approximately 4 ft north of DW-4 well boring

WATER LEVEL OBSERVATIONS

WD



Well Started: 4/3/2013

Drill Rig: Air Rotary

Driller: RSD

Project No.: E1117070

Exhibit: B-8

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. ENVIRONMENTAL SMART LOG ALADDIN CLEANER BORING AND WELL LOGS.GPJ ENV STANDARD 2012.GDT 4/23/13

WELL LOG NO. MW-5

PROJECT: Former Aladdin Cleaners

CLIENT: ADEM

SITE: 1668 Montclair Road
Birmingham, Alabama

P.C. Pattison

GRAPHIC LOG	LOCATION	INSTALLATION DETAILS	DEPTH (ft)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	OVA/PID (ppm)	SAMPLE COLLECTION TIME	SAMPLE SENT TO LAB (ID NUMBER)
	DEPTH MATERIAL DESCRIPTION	Well Completion: Surface Mount							
0.3	Hand Auger to 2 ft bgs:								
2.0	FILL - Reddish brown sand and gravel, trace fines, some redbrick fragments, moist	-2" riser, cement bentonite grout			☞	24	0	10:24	
5.0	FILL - Reddish brown silty gravelly CLAY, trace fines, some light gray mottling, moist	-Hydrated bentonite chips	5		☞	8	0	10:27	
10.0	FILL - Reddish brown CLAY, some gravel, black cinders and red brick fragments, moist	-#2 sand filter pack			☞	24	0	10:36	8-10
12.0	Reddish brown silt/clay with sand, moist (soil from blow out cuttings)	-2"d x 5'L sch 40 PVC 10 slot screen	10	▽					
	Limestone bedrock encountered at 12 ft bgs <i>Boring Terminated at 12 Feet</i>								

The stratification lines represent the approximate transition between differing soil types and/or rock types; in-situ these transitions may be gradual or may occur at different depths than shown.

Hammer Type: Automatic

Advancement Method:
Advanced with split spoon to bedrock (12')

Abandonment Method:
Well installation

Notes:
Screened interval 7-12 ft bgs; #2 sand filter pack 5-12 ft bgs; hydrated bentonite chips 3-5 ft bgs; solid riser .25-7 ft bgs and grouted with cement bentonite mix .75-3 ft bgs; 8" d. flush mount protective cover at surface

WATER LEVEL OBSERVATIONS

▽ WD



Well Started: 4/4/2013

Drill Rig: Air Rotary

Project No.: E1117070

Driller: RSD

Exhibit: B-9

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. ENVIRONMENTAL SMART LOG ALADDIN CLEANER BORING AND WELL LOGS.GPJ ENV STANDARD 2012.GDT 4/23/13

WELL LOG NO. MW-6

PROJECT: Former Aladdin Cleaners

CLIENT: ADEM

SITE: 1668 Montclair Road
Birmingham, Alabama

P.C. Pattison

GRAPHIC LOG	LOCATION	INSTALLATION DETAILS	DEPTH (ft)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	OVA/PID (ppm)	SAMPLE COLLECTION TIME	SAMPLE SENT TO LAB (ID NUMBER)
	DEPTH MATERIAL DESCRIPTION	Well Completion: Surface Mount							
0.3	Hand Auger to 2 ft bgs:								
3.0	FILL - Gray sand and gravel, sub-base aggregate, moist	-2" riser, cement bentonite grout			Hand	16	0	8:35	
8.0	Reddish orange clayey SILT with coarse gravel, some light gray mottling, moist	Hydrated bentonite chips	5		Hand	20	0	9:15	
10.5	Reddish brown gravelly CLAY, trace fines, some light gray mottling, moist	-#2 sand filter pack							
10.5	Limestone bedrock encountered at 10.5 ft bgs <i>Boring Terminated at 10.5 Feet</i>	-2" d x 5' L sch 40 PVC 10 slot screen	10	Water Level	Hand	24	0	9:25	8-10

The stratification lines represent the approximate transition between differing soil types and/or rock types; in-situ these transitions may be gradual or may occur at different depths than shown.

Hammer Type: Automatic

Advancement Method:
Advanced with split spoon to bedrock (10.5')

Abandonment Method:
Well installation

Notes:
Screened interval 5.5-10.5 ft bgs; #2 sand filter pack 3.5-10.5 ft bgs; hydrated bentonite chips 1.5-3.5 ft bgs; solid riser .25-5.5 ft bgs and grouted with cement bentonite mix .75-1.5 ft bgs; 8" d. flush mount protective cover at surface

WATER LEVEL OBSERVATIONS

WD



Well Started: 4/4/2013

Drill Rig: Air Rotary

Project No.: E1117070

Driller: RSD

Exhibit: B-10

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. ENVIRONMENTAL SMART LOG ALADDIN CLEANER BORING AND WELL LOGS.GPJ ENV STANDARD 2012.GDT 4/23/13

WELL LOG NO. MW-8

PROJECT: Former Aladdin Cleaners

CLIENT: ADEM

SITE: 1668 Montclair Road
Birmingham, Alabama

P.C. Pattison

GRAPHIC LOG	LOCATION	INSTALLATION DETAILS	DEPTH (ft)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	OVA/PID (ppm)	SAMPLE COLLECTION TIME	SAMPLE SENT TO LAB (ID NUMBER)
	DEPTH MATERIAL DESCRIPTION	Well Completion: Surface Mount							
0.3	Hand Auger to 2 ft bgs:								
3.0	FILL - Brown clayey SILT with sand, moist	-2" riser, cement bentonite grout			Hand	24	0	12:44	
8.0	Reddish orange SILT, some sand and light gray mottling, trace reddish orange nodules, moist	-Hydrated bentonite chips	5		Hand	18	0	12:47	
11.5	Reddish brown clayey SILT with sand and gravel, some black striations and reddish orange nodules, moist	-#2 sand filter pack -2"d x 5'L sch 40 PVC 10 slot screen	10		Hand	24	0	12:55	8-10
	Limestone bedrock encountered at 11.5 ft bgs Boring Terminated at 11.5 Feet			▽					

The stratification lines represent the approximate transition between differing soil types and/or rock types; in-situ these transitions may be gradual or may occur at different depths than shown.

Hammer Type: Automatic

Advancement Method:
Advanced with split spoon to bedrock (11.5')

Abandonment Method:
Well installation

WATER LEVEL OBSERVATIONS
▽ WD

Notes:
Screened interval 6.5-11.5 ft bgs; #2 sand filter pack 4.5-11.5 ft bgs; hydrated bentonite chips 2.5-4.5 ft bgs; solid riser .25-6.5 ft bgs and grouted with cement bentonite mix .75-2.5 ft bgs; 8" d. flush mount protective cover at surface

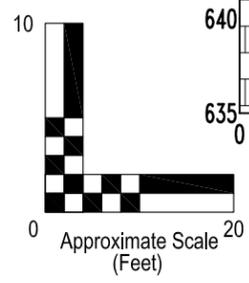
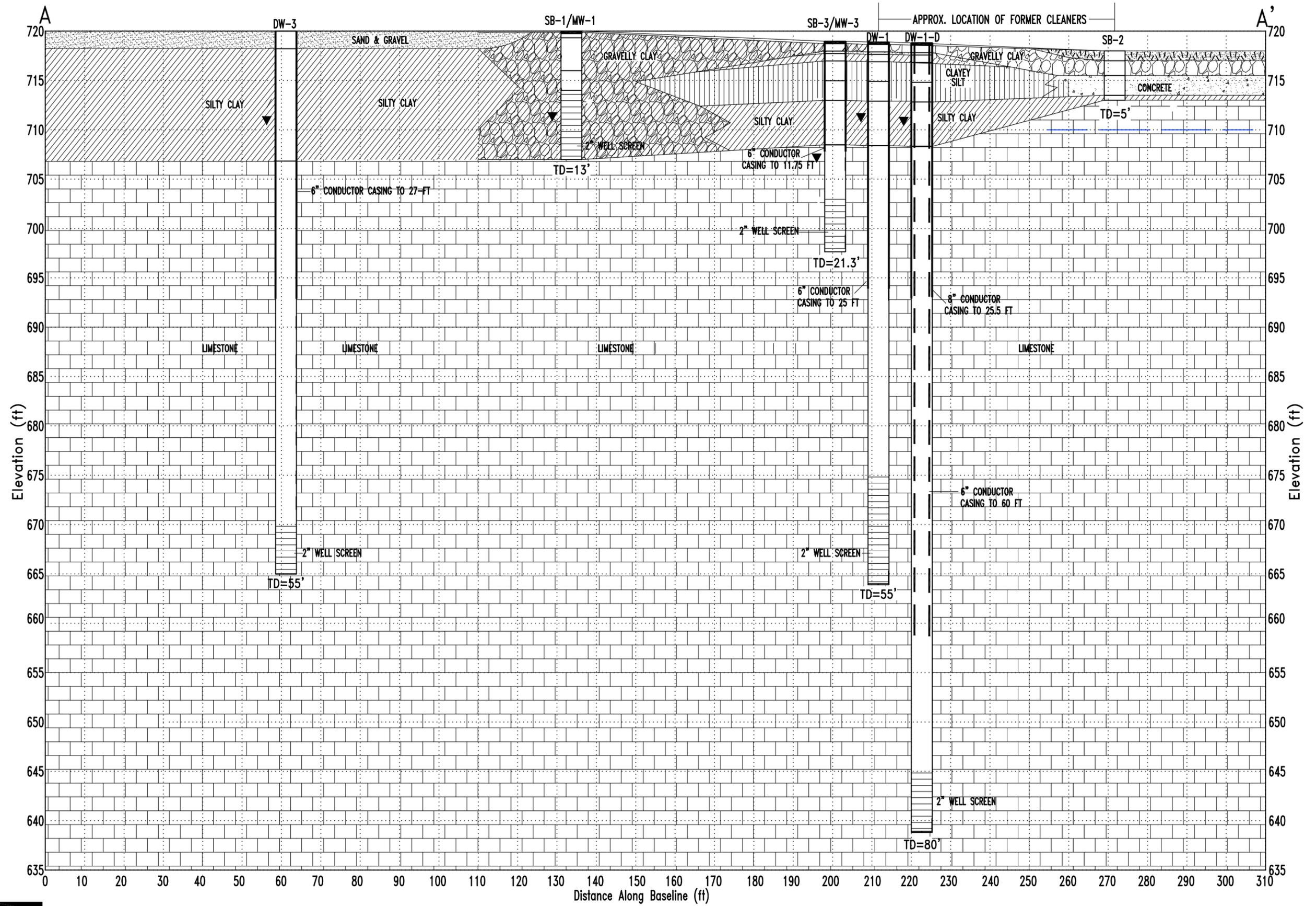


Well Started: 4/4/2013	
Drill Rig: Air Rotary	Driller: RSD
Project No.: E1117070	Exhibit: B-11

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. ENVIRONMENTAL SMART LOG ALADDIN CLEANER BORING AND WELL LOGS.GPJ ENV STANDARD 2012.GDT 4/23/13

Figure 11

Monitoring Well Construction Diagrams
(See Figure 10)



▼ WATER TABLE

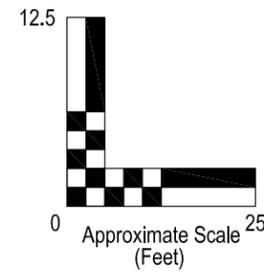
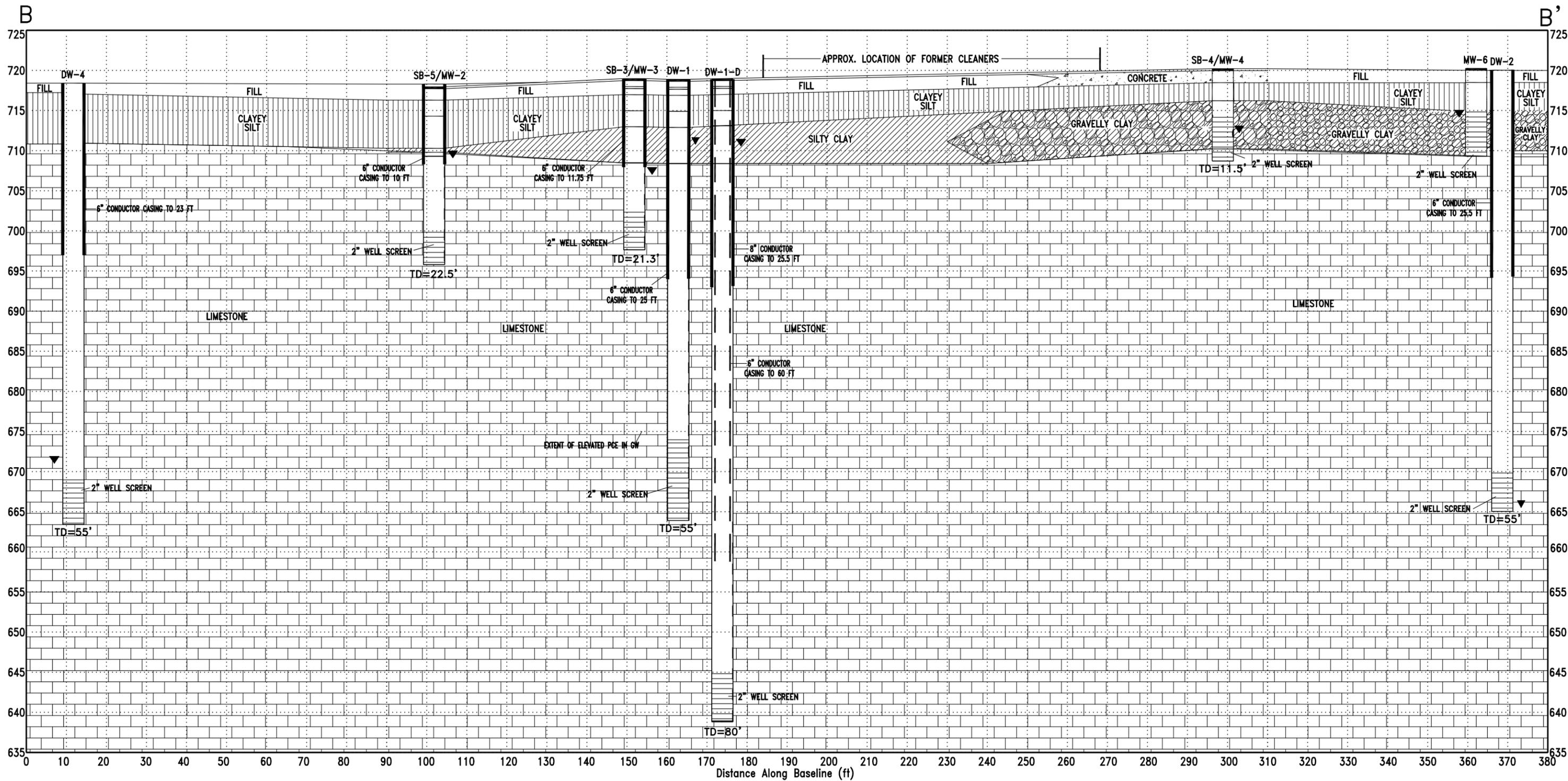
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Drawn By:	DWD	Scale:	AS SHOWN
Checked By:	WGN/MRF	File No.:	AEE1137127-13A
Approved By:	TWR	Date:	JAN. 2014

Terracon
 Consulting Engineers and Scientists
 110 12th Street North Birmingham, Alabama 35203
 (205) 942-1289 (205) 443-5302

CROSS-SECTION A-A'
 ARBCA EVALUATION
 ALADDIN CLEANERS
 1688 MONTCLAIR ROAD
 BIRMINGHAM, JEFFERSON COUNTY, AL

FIGURE
 13A

THIS DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES



▼ WATER TABLE

Project Mngr:	WGN	Project No.:	E1137127
Drawn By:	DWD	Scale:	AS SHOWN
Checked By:	WGN/MRF	File No.:	AEE1137127-13B
Approved By:	TWR	Date:	JAN. 2014

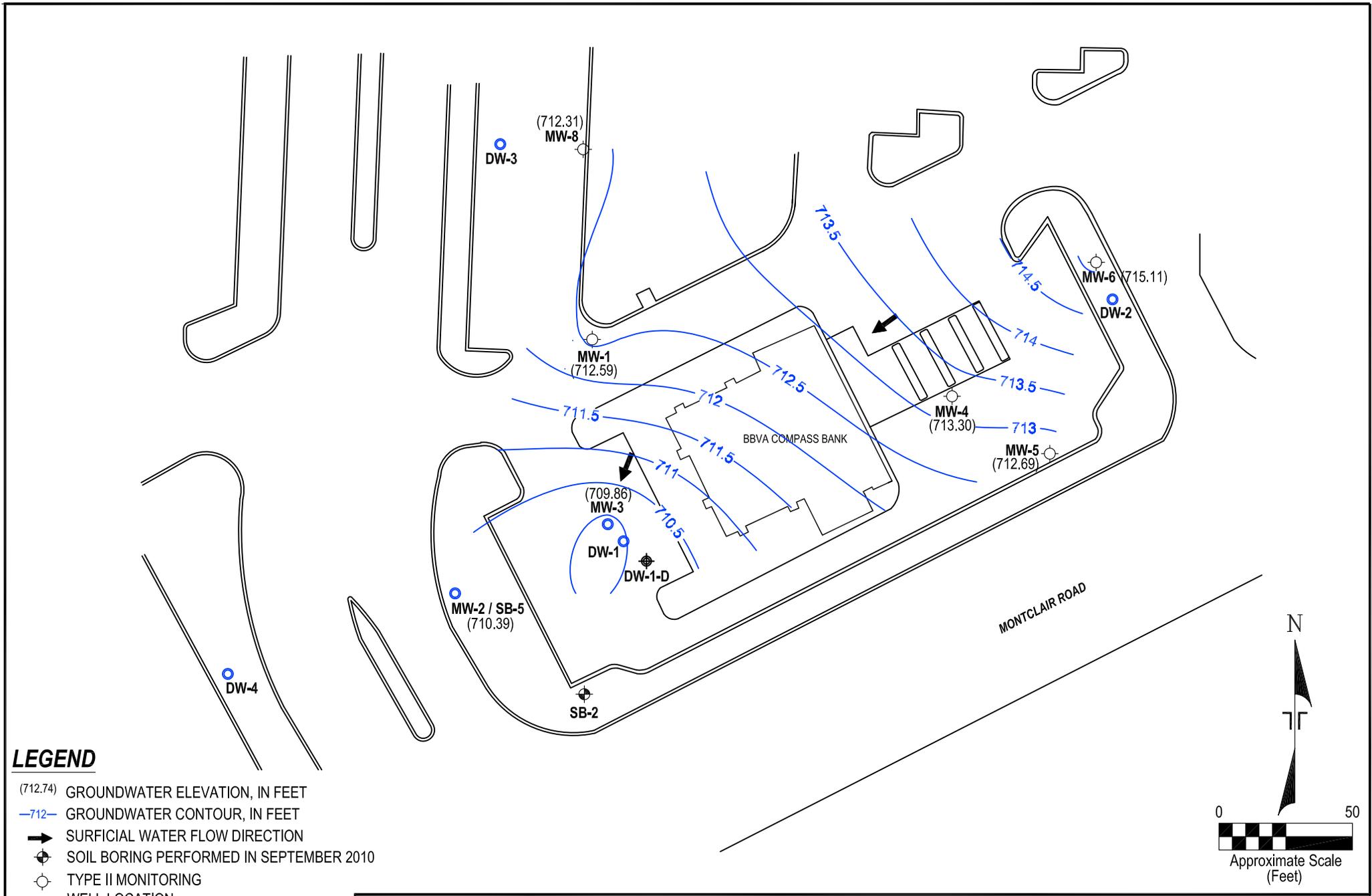
Terracon
Consulting Engineers and Scientists

110 12th Street North Birmingham, Alabama 35203
(205) 942-1289 (205) 443-5302

CROSS-SECTION B-B'
ARBCA EVALUATION
ALADDIN CLEANERS
1668 MONTCLAIR ROAD
BIRMINGHAM, JEFFERSON COUNTY, AL

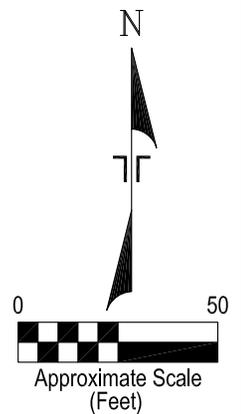
FIGURE
13B

THIS DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES



LEGEND

- (712.74) GROUNDWATER ELEVATION, IN FEET
- 712— GROUNDWATER CONTOUR, IN FEET
- ➔ SURFICIAL WATER FLOW DIRECTION
- ⊕ SOIL BORING PERFORMED IN SEPTEMBER 2010
- TYPE II MONITORING WELL LOCATION
- TYPE III MONITORING WELL LOCATION
- ⊕ TYPE III (TRIPLE-CASED) MONITORING WELL LOCATION



THIS DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

Project Mngnr:	WGN	Project No.:	E1137127
Drawn By:	DWD	Scale:	AS SHOWN
Checked By:	WGN/MRF	File No.:	GWE1137127-14B
Approved By:	TWR	Date:	JAN. 2014

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POTENTIOMETRIC SURFACE MAP (AUGUST 22, 2013)

ARBCA EVALUATION
ALADDIN CLEANERS AND LAUNDRY
1668 MONTCLAIR ROAD
BIRMINGHAM, JEFFERSON COUNTY, AL

FIGURE
14B

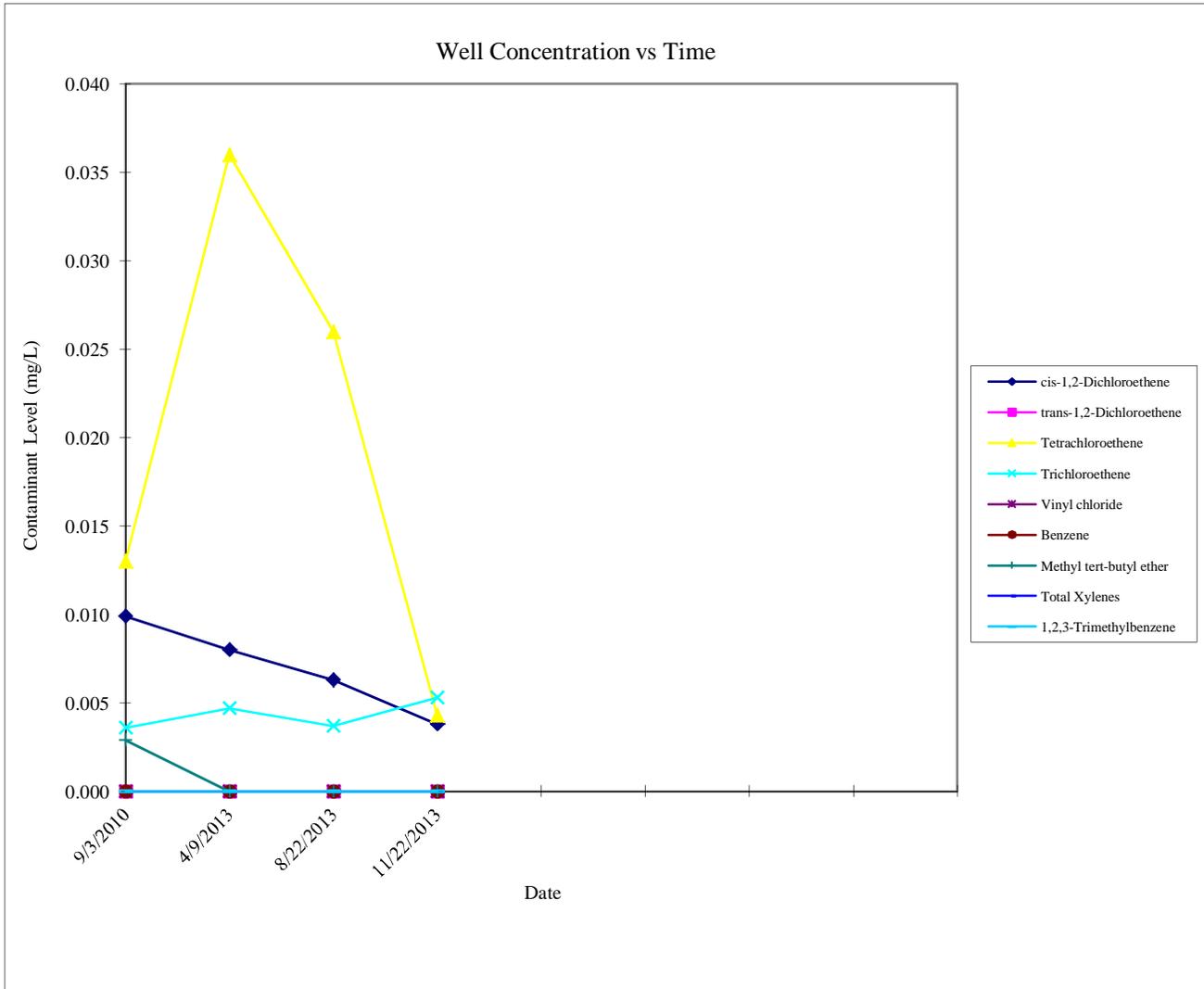
Figure 15

Current & Historical Groundwater COC Trend Graphs

GROUNDWATER CONCENTRATION DATA

Facility Name: Aladdin Cleaners Montclair									
Facility I. D. No.:						DERTF No.: 462-9350			
Section 14 - Monitoring Well Concentration Data [Current Event, Previous 5 Events, & Initial Event]									
Well No: MW-1									
Date	9/3/2010	4/9/2013	8/22/2013	11/22/2013					
cis-1,2-Dichloroethene	0.0099	0.008	0.0063	0.0038					
trans-1,2-Dichloroethene	--	--	--	--					
Tetrachloroethene	0.013	0.036	0.026	0.0043					
Trichloroethene	0.0036	0.0047	0.0037	0.0053					
Vinyl chloride	--	--	--	--					
Benzene	--	--	--	--					
Methyl tert-butyl ether	0.0029	--	--	--					
Total Xylenes	--	--	--	--					
1,2,3-Trimethylbenzene	--	--	--	--					

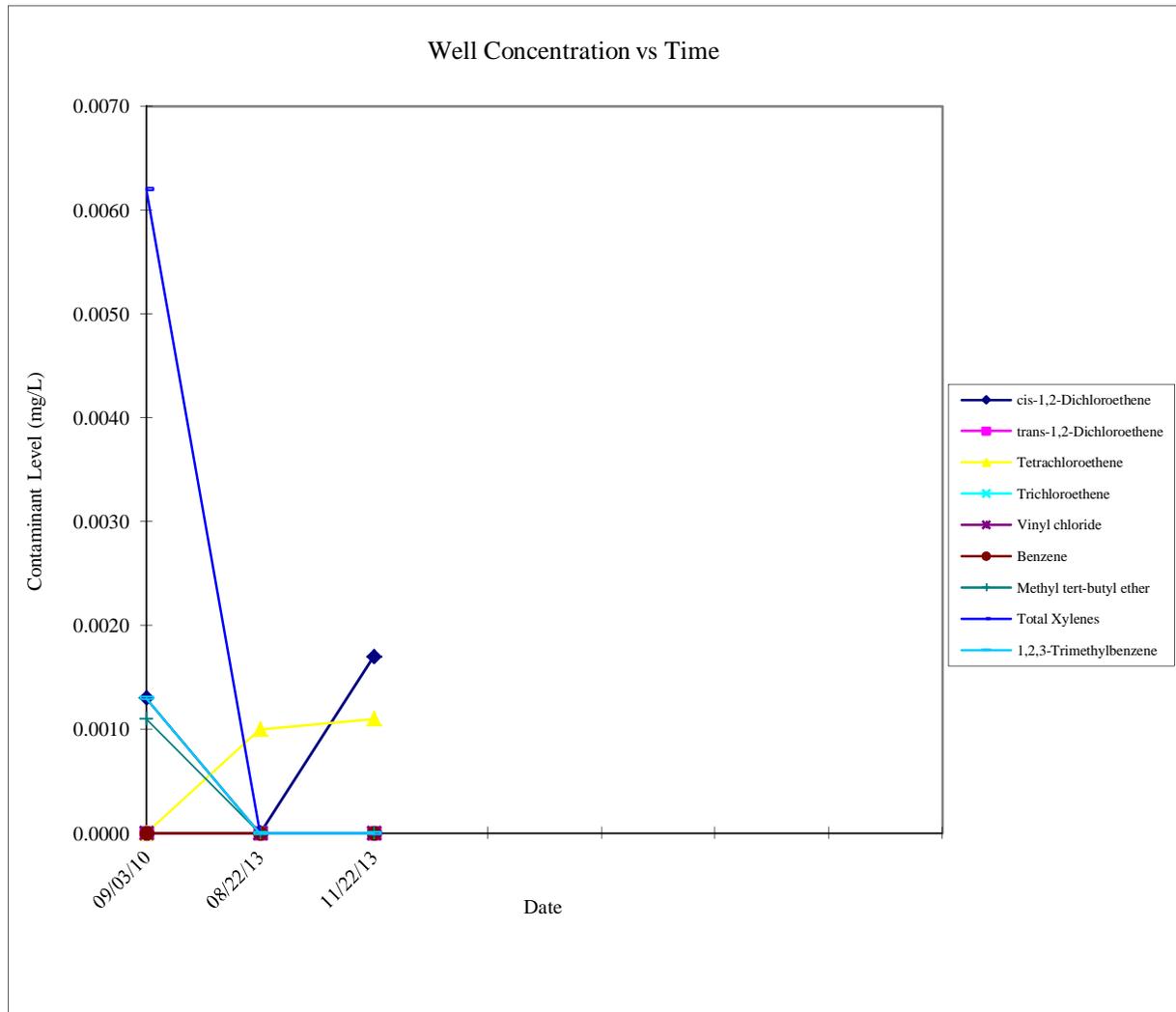
MW-1



GROUNDWATER CONCENTRATION DATA

Facility Name: Aladdin Cleaners Montclair							
Facility I. D. No.:		DERTF No.: 462-9350					
Section 14 - Monitoring Well Concentration Data [Current Event, Previous 6 Events, & Initial Event]							
Well No: MW-2							
Date	09/03/10	08/22/13	11/22/13				
cis-1,2-Dichloroethene	0.0013	--	0.0017				
trans-1,2-Dichloroethene	--	--	--				
Tetrachloroethene	--	0.001	0.0011				
Trichloroethene	--	--	--				
Vinyl chloride	--	--	--				
Benzene	--	--	--				
Methyl tert-butyl ether	0.0011	--	--				
Total Xylenes	0.0062	--	--				
1,2,3-Trimethylbenzene	0.0013	--	--				

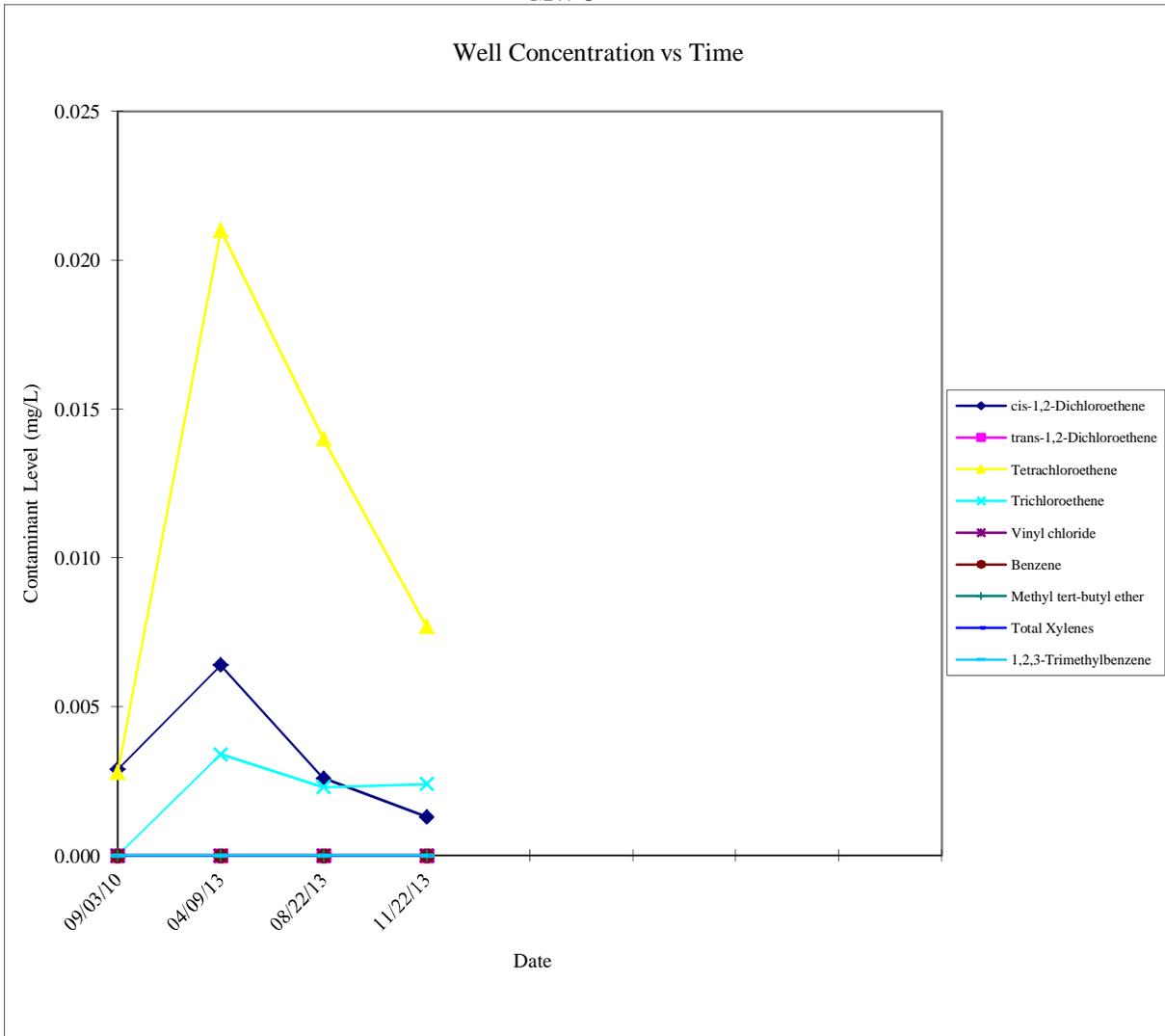
MW-2



GROUNDWATER CONCENTRATION DATA

Facility Name: Aladdin Cleaners Montclair									
Facility I. D. No.:		DERTF No.: 462-9350							
Section 14 - Monitoring Well Concentration Data [Current Event, Previous 6 Events, & Initial Event]									
Well No: MW-3									
Date	09/03/10	04/09/13	08/22/13	11/22/13					
cis-1,2-Dichloroethene	0.0029	0.0064	0.0026	0.0013					
trans-1,2-Dichloroethene	--	--	--	--					
Tetrachloroethene	0.0028	0.021	0.014	0.0077					
Trichloroethene	--	0.0034	0.0023	0.0024					
Vinyl chloride	--	--	--	--					
Benzene	--	--	--	--					
Methyl tert-butyl ether	--	--	--	--					
Total Xylenes	--	--	--	--					
1,2,3-Trimethylbenzene	--	--	--	--					

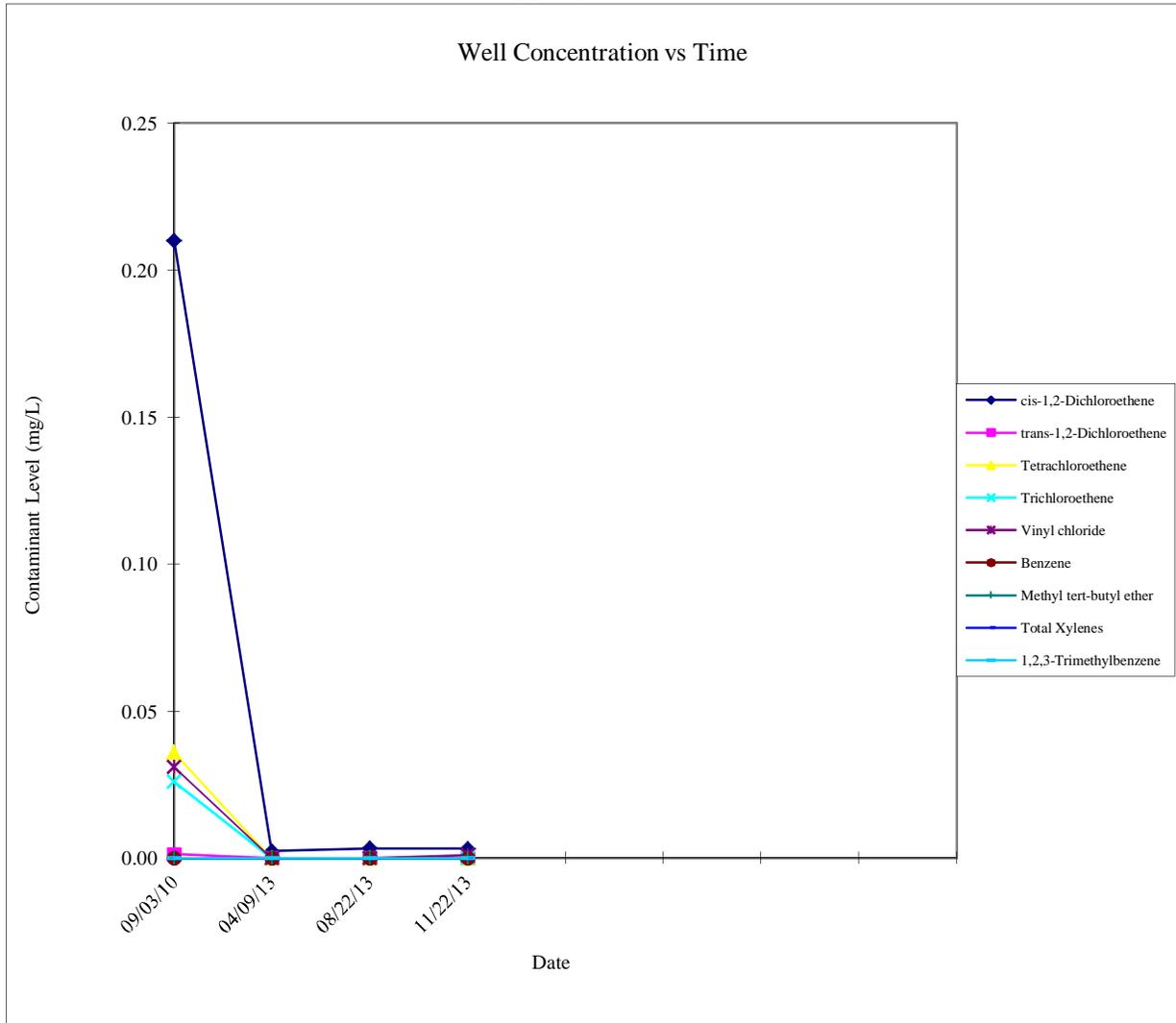
MW-3



GROUNDWATER CONCENTRATION DATA

Facility Name: Aladdin Cleaners Montclair									
Facility I. D. No.:		DERTF No.: 462-9350							
Section 14 - Monitoring Well Concentration Data [Current Event, Previous 6 Events, & Initial Event]									
Well No:	MW-4								
Date	09/03/10	04/09/13	08/22/13	11/22/13					
cis-1,2-Dichloroethene	0.21	0.0024	0.0033	0.0032					
trans-1,2-Dichloroethene	0.0013	--	--	--					
Tetrachloroethene	0.036	--	--	--					
Trichloroethene	0.026	--	--	--					
Vinyl chloride	0.031	--	--	0.001					
Benzene	--	--	--	--					
Methyl tert-butyl ether	--	--	--	--					
Total Xylenes	--	--	--	--					
1,2,3-Trimethylbenzene	--	--	--	--					

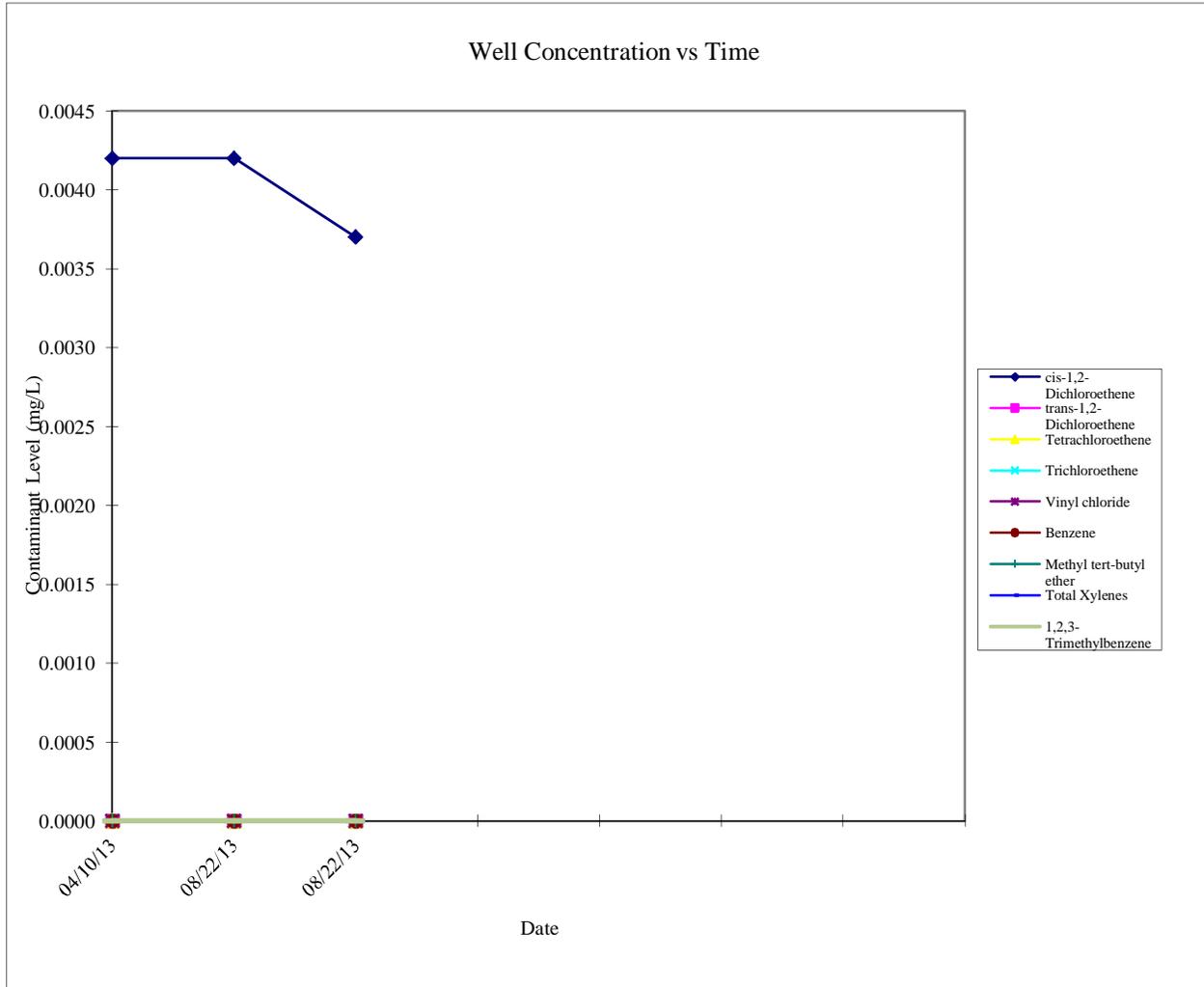
MW-4



GROUNDWATER CONCENTRATION DATA

Facility Name: Aladdin Cleaners Montclair									
Facility I. D. No.:		DERTF No.: 462-9350							
Section 14 - Monitoring Well Concentration Data [Current Event, Previous 5 Events, & Initial Event]									
Well No:	MW-5								
Date	04/10/13	08/22/13	08/22/13						
cis-1,2-Dichloroethene	0.0042	0.0042	0.0037						
trans-1,2-Dichloroethene	--	--	--						
Tetrachloroethene	--	--	--						
Trichloroethene	--	--	--						
Vinyl chloride	--	--	--						
Benzene	--	--	--						
Methyl tert-butyl ether	--	--	--						
Total Xylenes	--	--	--						
1,2,3-Trimethylbenzene	--	--	--						

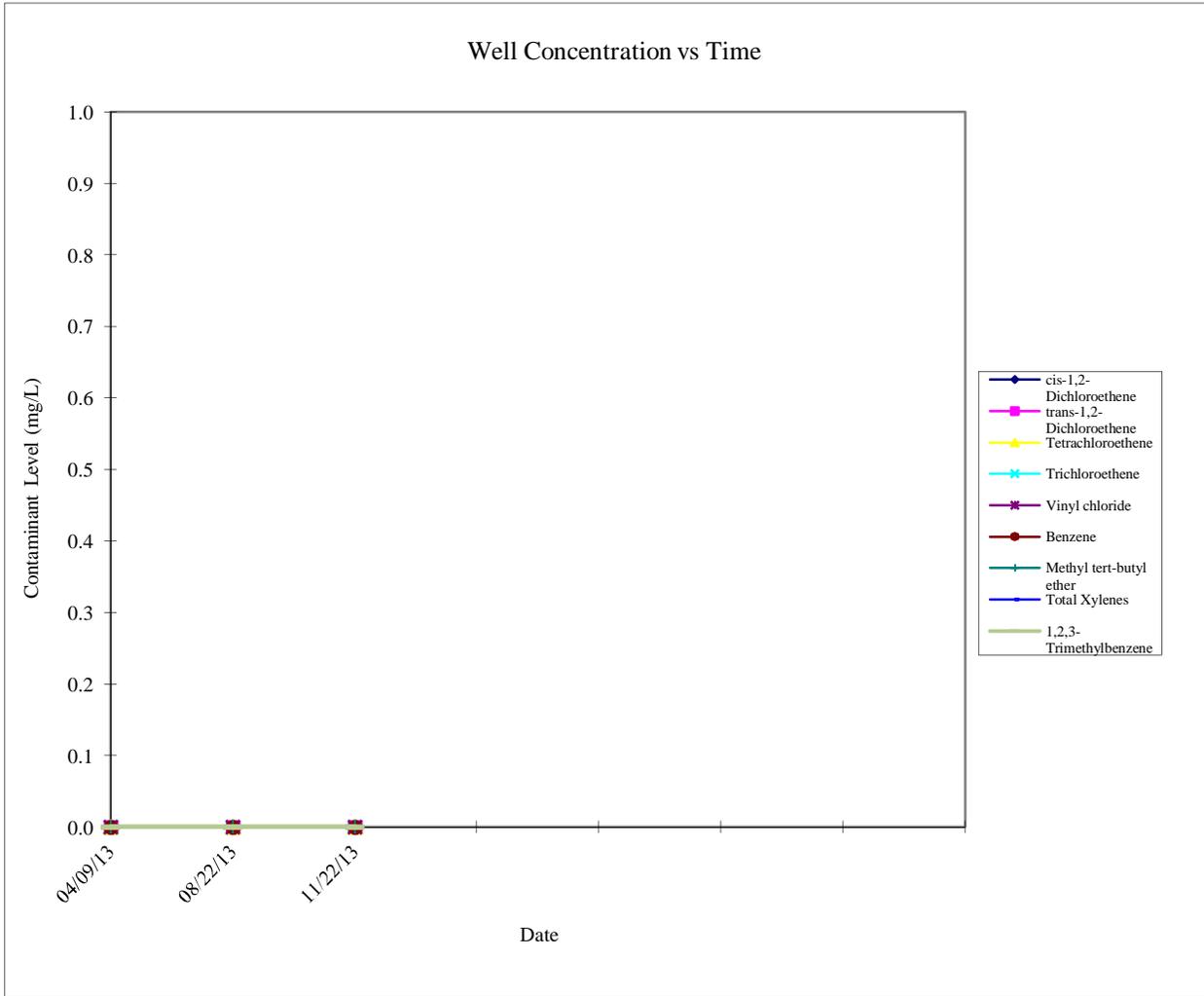
MW-5



GROUNDWATER CONCENTRATION DATA

Facility Name: Aladdin Cleaners Montclair									
Facility I. D. No.:		DERTF No.: 462-9350							
Section 14 - Monitoring Well Concentration Data [Current Event, Previous 5 Events, & Initial Event]									
Well No:	MW-6								
Date	04/09/13	08/22/13	11/22/13						
cis-1,2-Dichloroethene	--	--	--						
trans-1,2-Dichloroethene	--	--	--						
Tetrachloroethene	--	--	--						
Trichloroethene	--	--	--						
Vinyl chloride	--	--	--						
Benzene	--	--	--						
Methyl tert-butyl ether	--	--	--						
Total Xylenes	--	--	--						
1,2,3-Trimethylbenzene	--	--	--						

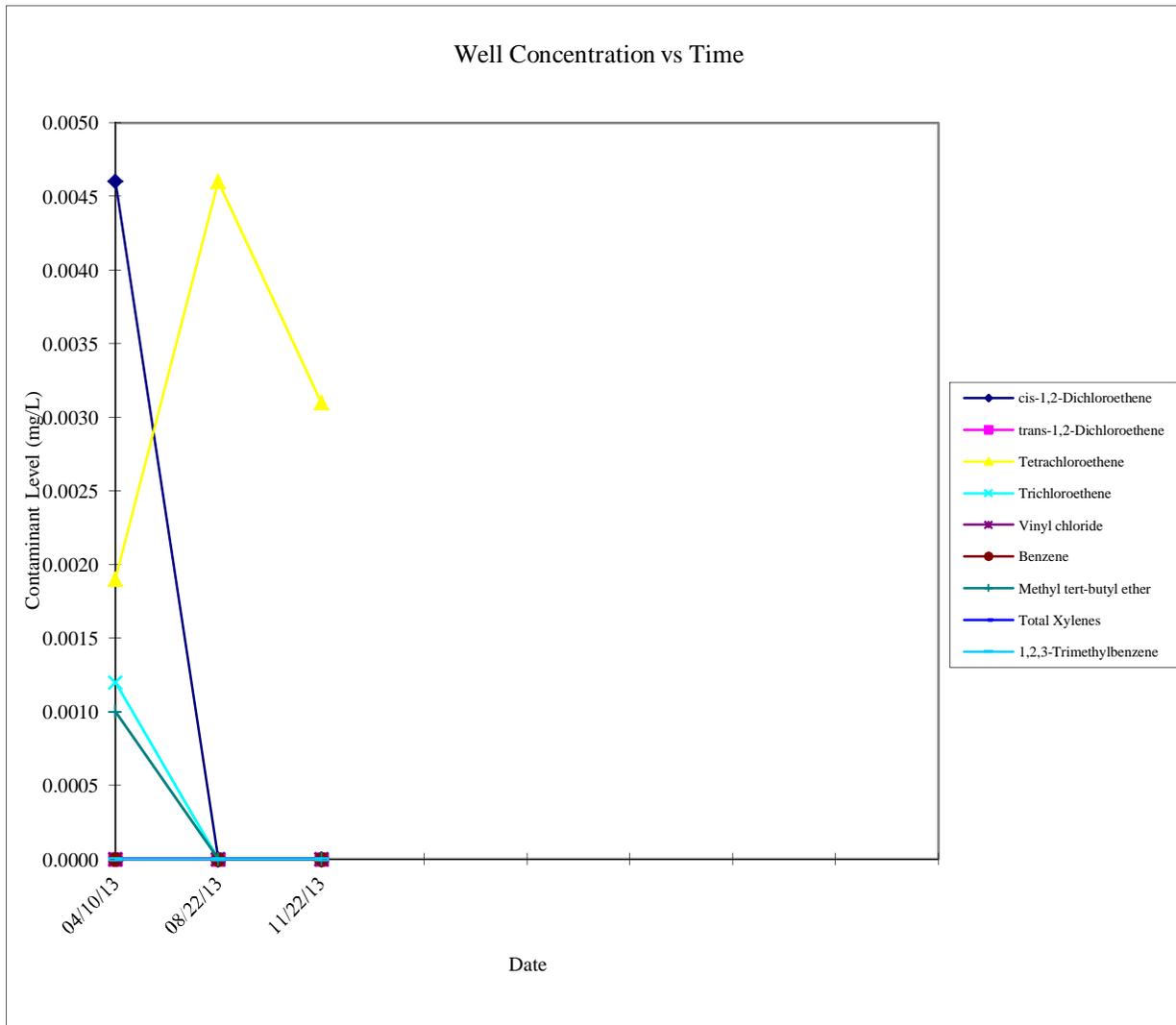
MW-6



GROUNDWATER CONCENTRATION DATA

Facility Name: Aladdin Cleaners Montclair									
Facility I. D. No.:		DERTF No.: 462-9350							
Section 14 - Monitoring Well Concentration Data [Current Event, Previous 5 Events, & Initial Event]									
Well No:	MW-8								
Date	04/10/13	08/22/13	11/22/13						
cis-1,2-Dichloroethene	0.0046	--	--						
trans-1,2-Dichloroethene	--	--	--						
Tetrachloroethene	0.0019	0.0046	0.0031						
Trichloroethene	0.0012	--	--						
Vinyl chloride	--	--	--						
Benzene	--	--	--						
Methyl tert-butyl ether	0.001	--	--						
Total Xylenes	--	--	--						
1,2,3-Trimethylbenzene	--	--	--						

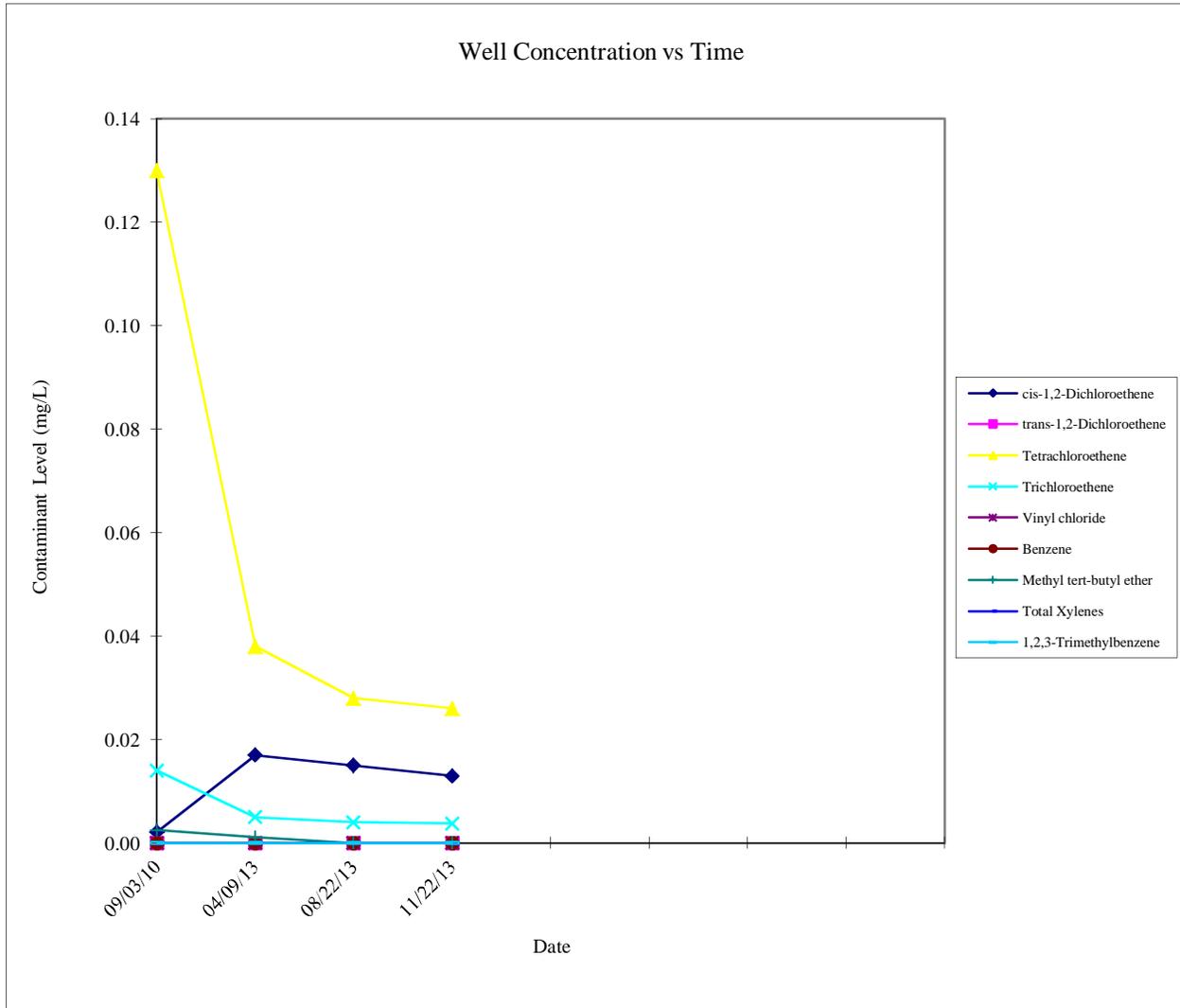
MW-8



GROUNDWATER CONCENTRATION DATA

Facility Name: Aladdin Cleaners Montclair									
Facility I. D. No.:		DERTF No.: 462-9350							
Section 14 - Monitoring Well Concentration Data [Current Event, Previous 5 Events, & Initial Event]									
Well No:	DW-1								
Date	09/03/10	04/09/13	08/22/13	11/22/13					
cis-1,2-Dichloroethene	0.0021	0.0170	0.015	0.013					
trans-1,2-Dichloroethene	--	--	--	--					
Tetrachloroethene	0.13	0.038	0.028	0.026					
Trichloroethene	0.014	0.005	0.004	0.0038					
Vinyl chloride	--	--	--	--					
Benzene	--	--	--	--					
Methyl tert-butyl ether	0.0025	0.0011	--	--					
Total Xylenes	--	--	--	--					
1,2,3-Trimethylbenzene	--	--	--	--					

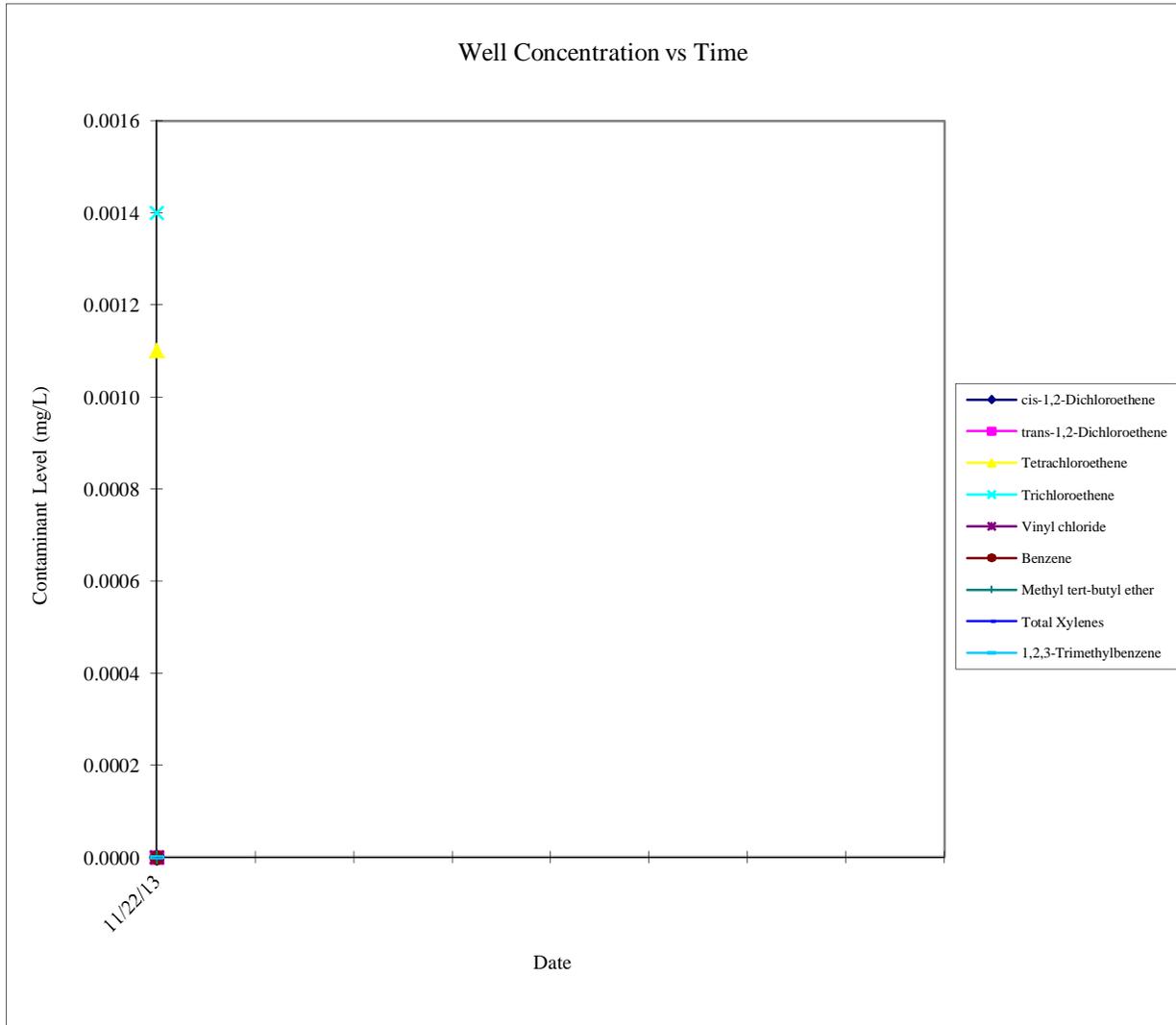
DW-1



GROUNDWATER CONCENTRATION DATA

Facility Name: Aladdin Cleaners Montclair									
Facility I. D. No.:		DERTF No.: 462-9350							
Section 14 - Monitoring Well Concentration Data [Current Event, Previous 5 Events, & Initial Event]									
Well No:	DW-2								
Date	11/22/13								
cis-1,2-Dichloroethene	--								
trans-1,2-Dichloroethene	--								
Tetrachloroethene	0.0011								
Trichloroethene	0.0014								
Vinyl chloride	--								
Benzene	--								
Methyl tert-butyl ether	--								
Total Xylenes	--								
1,2,3-Trimethylbenzene	--								

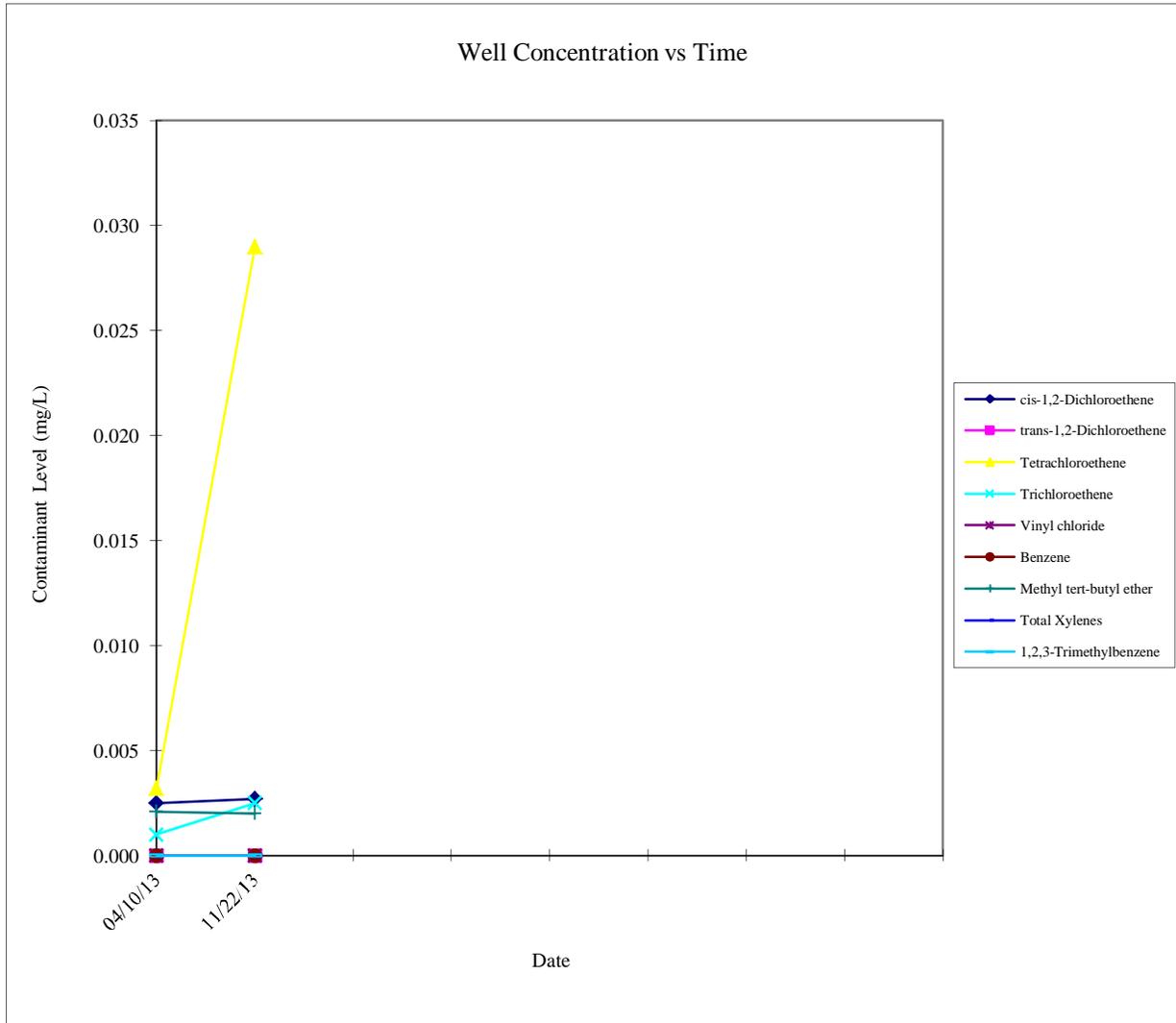
DW-2



GROUNDWATER CONCENTRATION DATA

Facility Name: Aladdin Cleaners Montclair									
Facility I. D. No.:		DERTF No.: 462-9350							
Section 14 - Monitoring Well Concentration Data [Current Event, Previous 5 Events, & Initial Event]									
Well No: DW-3									
Date	04/10/13	11/22/13							
cis-1,2-Dichloroethene	0.0025	0.0027							
trans-1,2-Dichloroethene	--	--							
Tetrachloroethene	0.0032	0.029							
Trichloroethene	0.001	0.003							
Vinyl chloride	--	--							
Benzene	--	--							
Methyl tert-butyl ether	0.0021	0.0020							
Total Xylenes	--	--							
1,2,3-Trimethylbenzene	--	--							

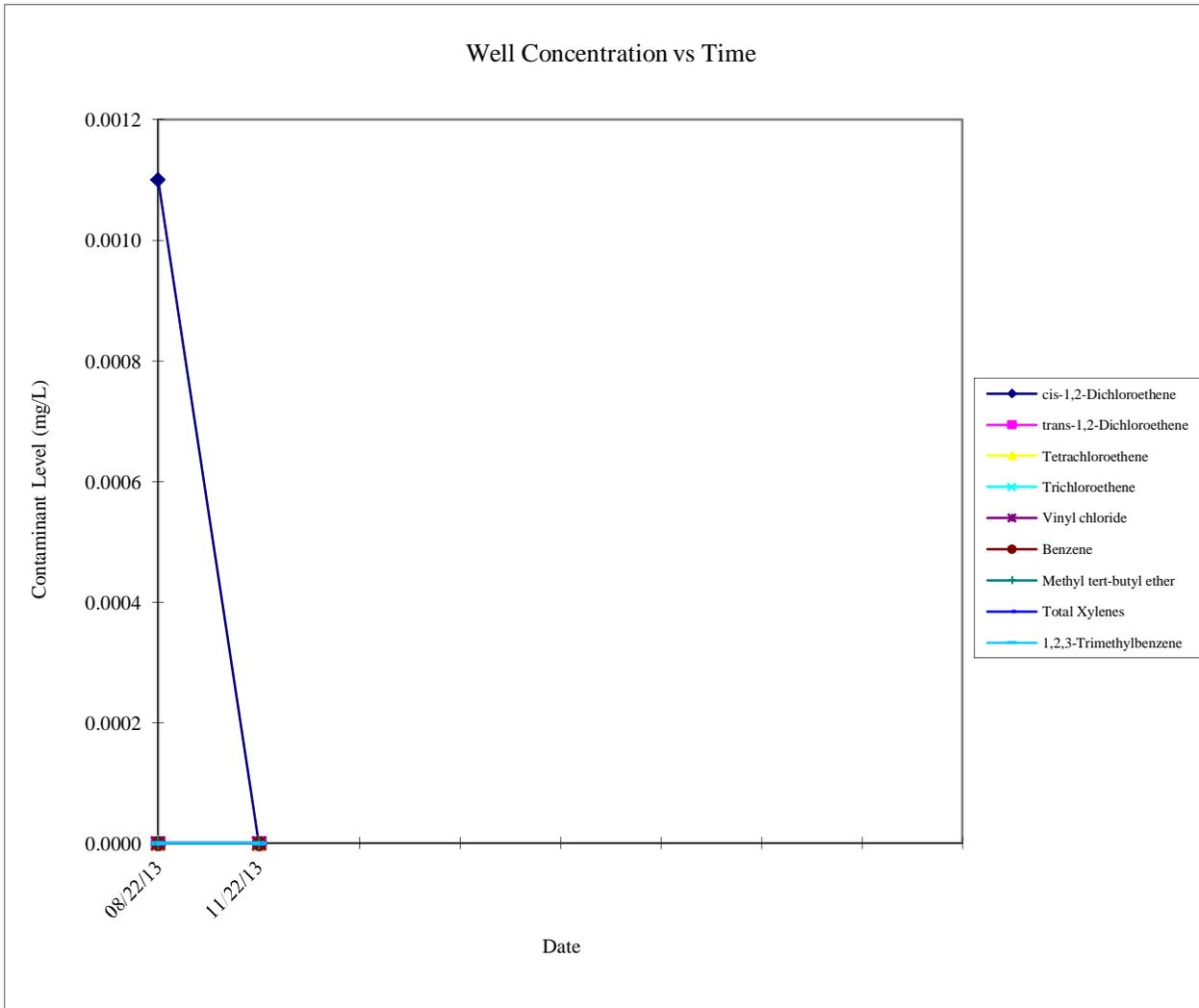
DW-3



GROUNDWATER CONCENTRATION DATA

Facility Name: Aladdin Cleaners Montclair									
Facility I. D. No.:		DERTF No.: 462-9350							
Section 14 - Monitoring Well Concentration Data [Current Event, Previous 5 Events, & Initial Event]									
Well No:	DW-4								
Date	08/22/13	11/22/13							
cis-1,2-Dichloroethene	0.0011	--							
trans-1,2-Dichloroethene	--	--							
Tetrachloroethene	--	--							
Trichloroethene	--	--							
Vinyl chloride	--	--							
Benzene	--	--							
Methyl tert-butyl ether	--	--							
Total Xylenes	--	--							
1,2,3-Trimethylbenzene	--	--							

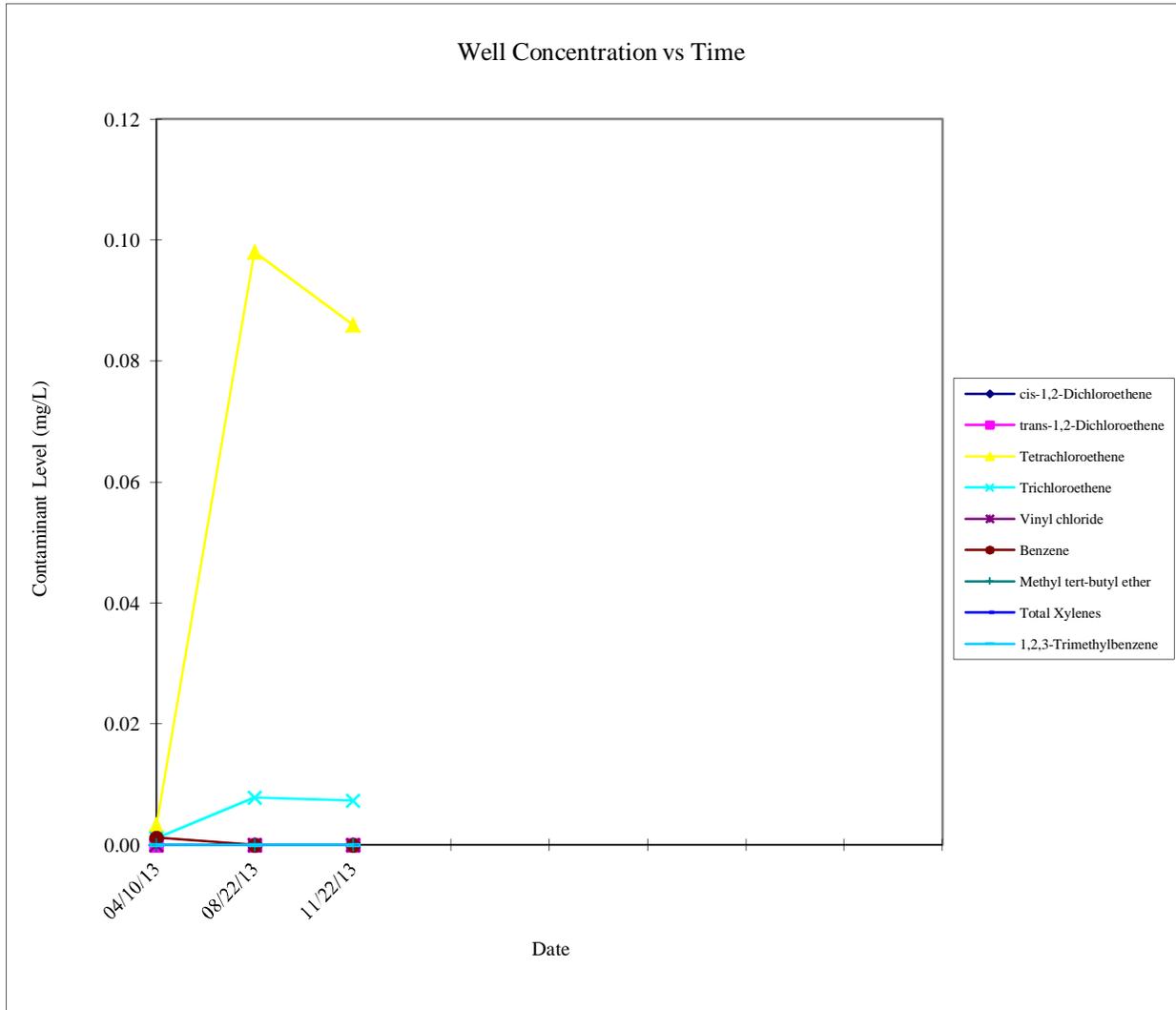
DW-4



GROUNDWATER CONCENTRATION DATA

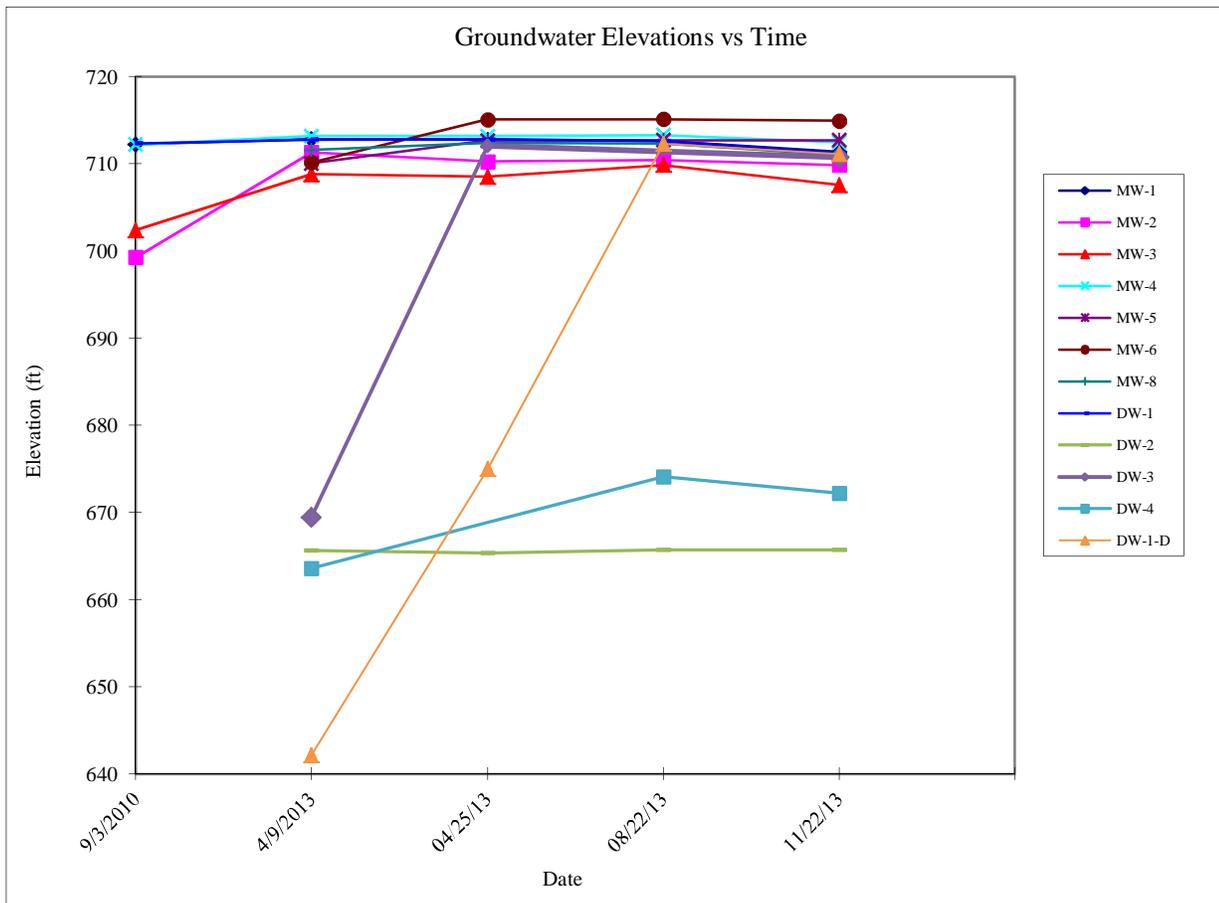
Facility Name: Aladdin Cleaners Montclair									
Facility I. D. No.:		DERTF No.: 462-9350							
Section 14 - Monitoring Well Concentration Data [Current Event, Previous 5 Events, & Initial Event]									
Well No:	DW-1-D								
Date	04/10/13	08/22/13	11/22/13						
cis-1,2-Dichloroethene	--	--	--						
trans-1,2-Dichloroethene	--	--	--						
Tetrachloroethene	0.0033	0.098	0.086						
Trichloroethene	0.0011	0.0078	0.0073						
Vinyl chloride	--	--	--						
Benzene	0.0012	--	--						
Methyl tert-butyl ether	--	--	--						
Total Xylenes	--	--	--						
1,2,3-Trimethylbenzene	--	--	--						

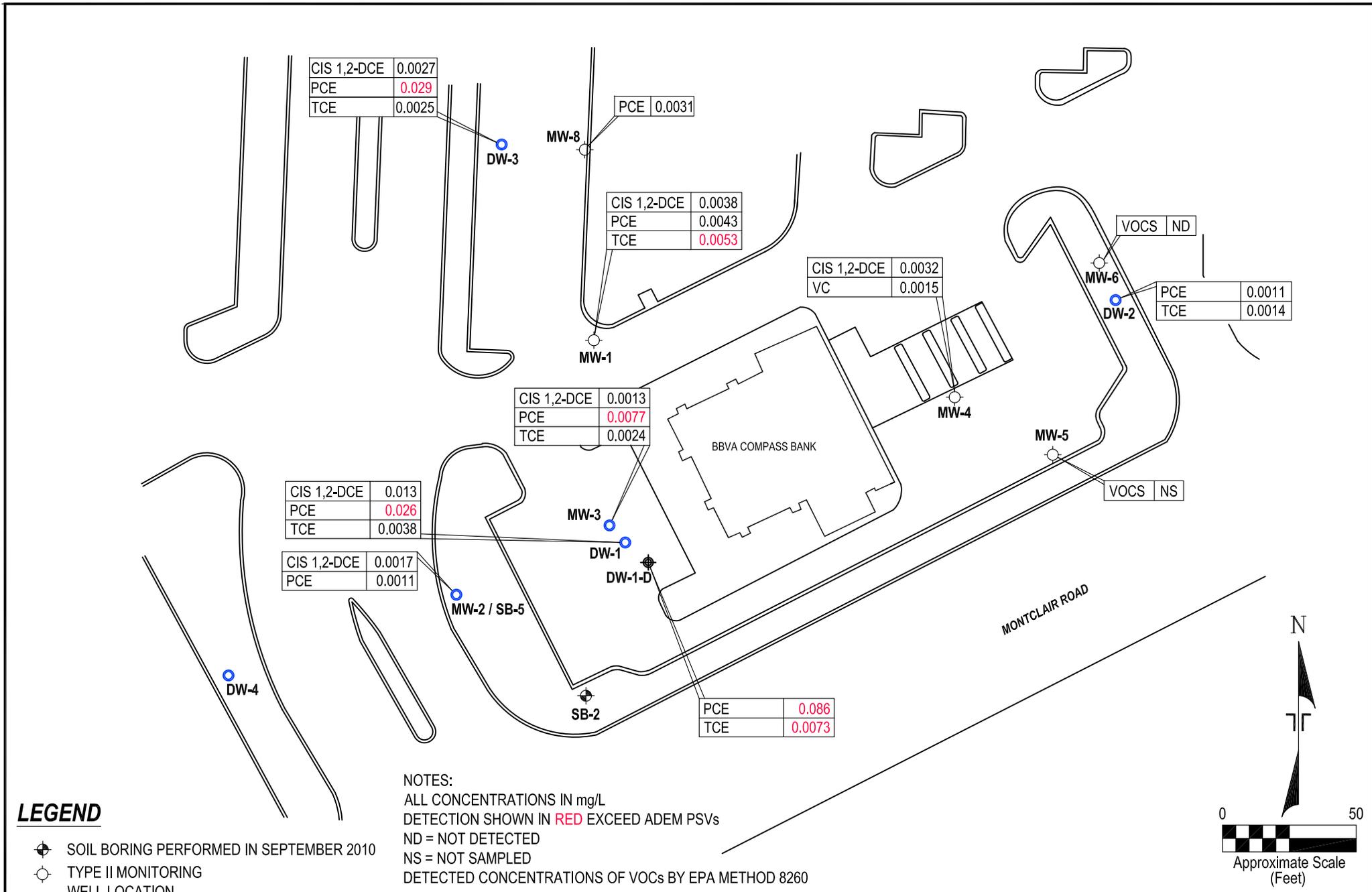
DW-1-D



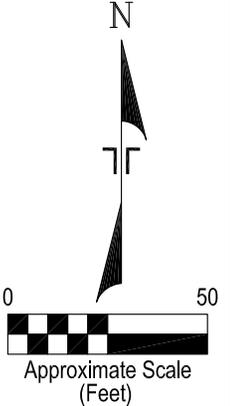
GROUNDWATER ELEVATION DATA

Facility Name: Aladdin Cleaners Montclair									
Facility I. D. No.:						DERTF No.: 462-9350			
Groundwater Elevation Data									
Date	9/3/2010	4/9/2013	04/25/13	08/22/13	11/22/13				
MW-1	712.24	712.8	712.74	712.59	711.34				
MW-2	699.28	711.32	710.24	710.39	709.87				
MW-3	702.37	708.8	708.50	709.86	707.56				
MW-4	712.20	713.18	713.16	713.30	712.50				
MW-5		710.05	712.66	712.69	712.72				
MW-6		710.13	715.07	715.11	714.92				
MW-8		711.57	712.39	712.31	710.97				
DW-1	712.32	712.79	712.8	712.59	711.24				
DW-2		665.62	665.38	665.71	665.69				
DW-3		669.41	712.05		710.74				
DW-4		663.62		674.12	672.21				
DW-1-D		642.14	674.95	712.3	711.11				





NOTES:
 ALL CONCENTRATIONS IN mg/L
 DETECTION SHOWN IN RED EXCEED ADEM PSVs
 ND = NOT DETECTED
 NS = NOT SAMPLED
 DETECTED CONCENTRATIONS OF VOCs BY EPA METHOD 8260



LEGEND

- ⊕ SOIL BORING PERFORMED IN SEPTEMBER 2010
- TYPE II MONITORING WELL LOCATION
- TYPE III MONITORING WELL LOCATION
- ⊕ TYPE III (TRIPLE-CASED) MONITORING WELL LOCATION

Project Mngr:	WGN
Drawn By:	DWD
Checked By:	WGN/MRF
Approved By:	TWR

Project No.	E1137127
Scale:	AS SHOWN
File No.	GWE1137127-16A
Date:	JAN. 2014

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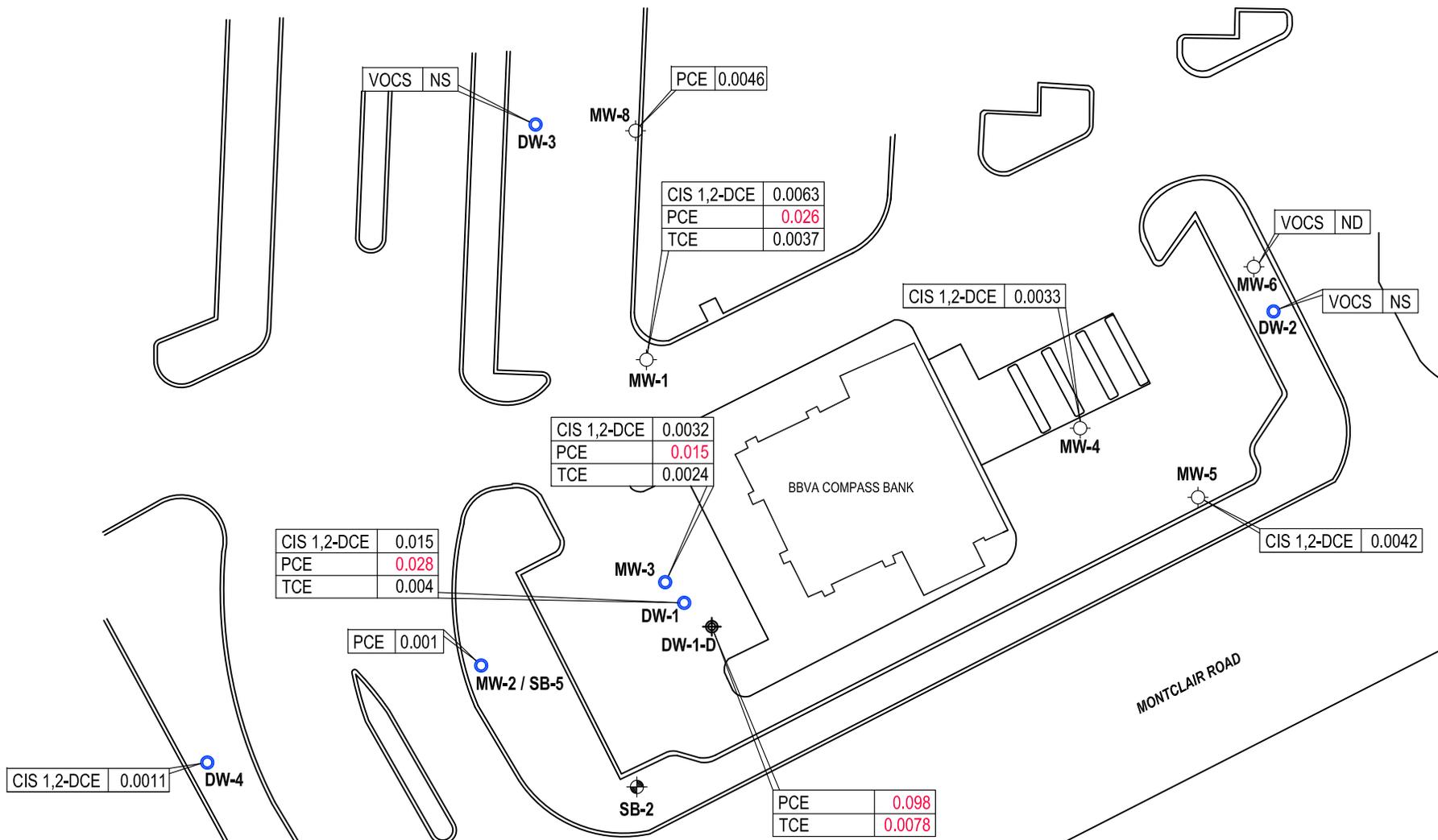
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DETECTED COCs IN GROUNDWATER (NOVEMBER, 2013)

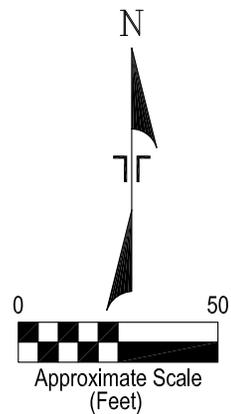
ARBCA EVALUATION
 ALADDIN CLEANERS AND LAUNDRY
 1668 MONTCLAIR ROAD
 BIRMINGHAM, JEFFERSON COUNTY, AL

FIGURE
 16A

THIS DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES



NOTES:
 ALL CONCENTRATIONS IN mg/L
 DETECTION SHOWN IN RED EXCEED ADEM PSVs
 ND = NOT DETECTED
 NS = NOT SAMPLED
 DETECTED CONCENTRATIONS OF VOCs BY EPA METHOD 8260



LEGEND

- ⊕ SOIL BORING PERFORMED IN SEPTEMBER 2010
- TYPE II MONITORING WELL LOCATION
- TYPE III MONITORING WELL LOCATION
- ⊕ TYPE III (TRIPLE-CASED) MONITORING WELL LOCATION

Project Mngr:	WGN
Drawn By:	DWD
Checked By:	WGN/MRF
Approved By:	TWR

Project No.	E1137127
Scale:	AS SHOWN
File No.	GWE1137127-16B
Date:	JAN. 2014

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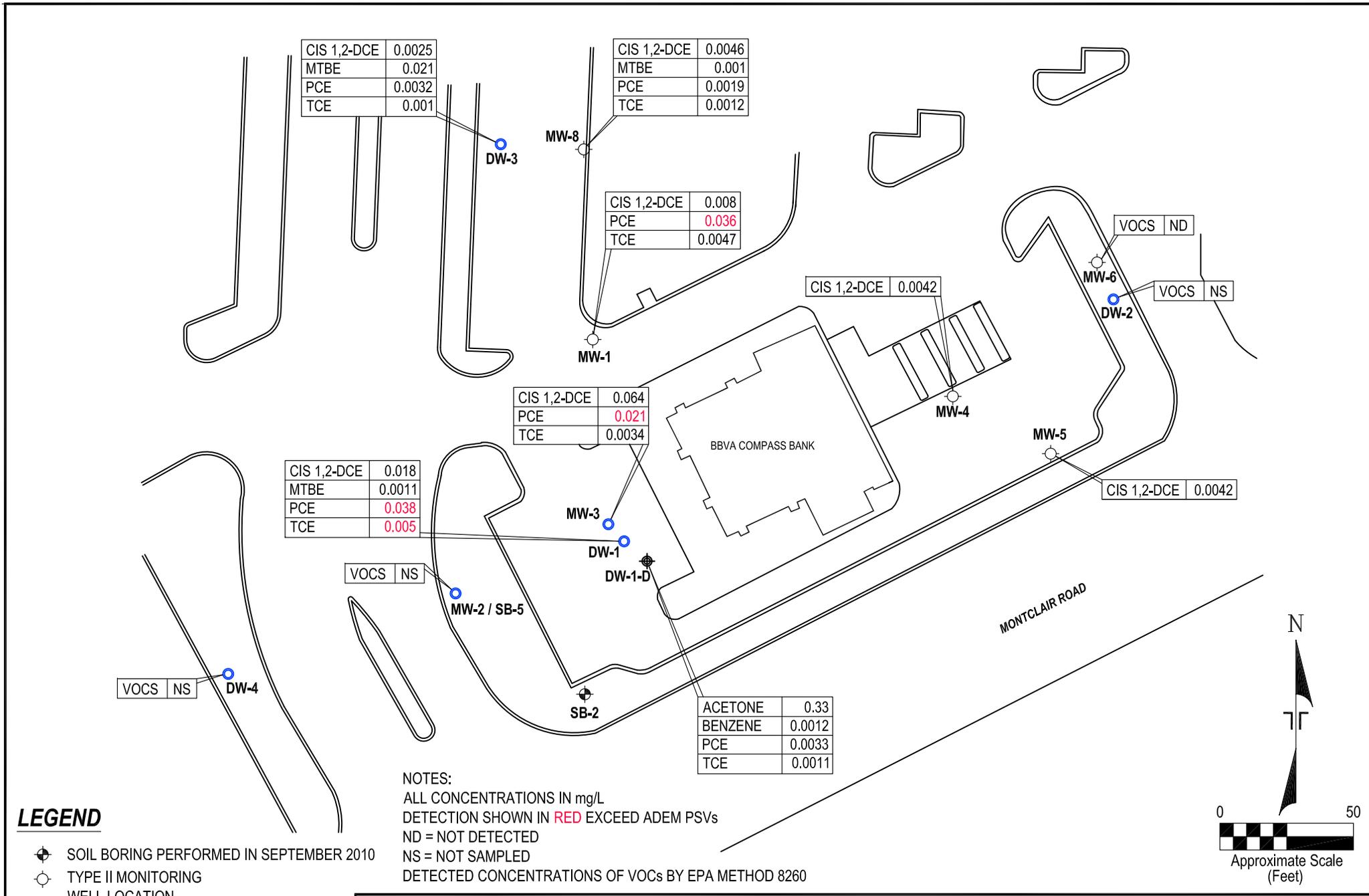
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DETECTED COCs IN GROUNDWATER (AUGUST 22, 2013)

ARBCA EVALUATION
 ALADDIN CLEANERS AND LAUNDRY
 1668 MONTCLAIR ROAD
 BIRMINGHAM, JEFFERSON COUNTY, AL

FIGURE
 16B

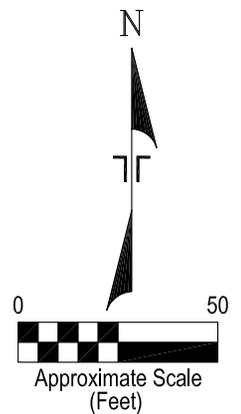
THIS DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES



NOTES:
 ALL CONCENTRATIONS IN mg/L
 DETECTION SHOWN IN RED EXCEED ADEM PSVs
 ND = NOT DETECTED
 NS = NOT SAMPLED
 DETECTED CONCENTRATIONS OF VOCs BY EPA METHOD 8260

LEGEND

- ⊕ SOIL BORING PERFORMED IN SEPTEMBER 2010
- TYPE II MONITORING WELL LOCATION
- TYPE III MONITORING WELL LOCATION
- ⊕ TYPE III (TRIPLE-CASED) MONITORING WELL LOCATION



THIS DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

<table border="1"> <tr><td>Project Mngr:</td><td>WGN</td></tr> <tr><td>Drawn By:</td><td>DWD</td></tr> <tr><td>Checked By:</td><td>WGN/MRF</td></tr> <tr><td>Approved By:</td><td>TWR</td></tr> </table>	Project Mngr:	WGN	Drawn By:	DWD	Checked By:	WGN/MRF	Approved By:	TWR	<table border="1"> <tr><td>Project No.:</td><td>E1137127</td></tr> <tr><td>Scale:</td><td>AS SHOWN</td></tr> <tr><td>File No.:</td><td>AEE1137127-16C</td></tr> <tr><td>Date:</td><td>JAN. 2014</td></tr> </table>	Project No.:	E1137127	Scale:	AS SHOWN	File No.:	AEE1137127-16C	Date:	JAN. 2014		<p>DETECTED COCs IN GROUNDWATER (APRIL 2013)</p> <p>ARBCA EVALUATION ALADDIN CLEANERS 1668 MONTCLAIR ROAD BIRMINGHAM, JEFFERSON COUNTY, AL</p>	<p>FIGURE</p> <p>16C</p>
Project Mngr:	WGN																			
Drawn By:	DWD																			
Checked By:	WGN/MRF																			
Approved By:	TWR																			
Project No.:	E1137127																			
Scale:	AS SHOWN																			
File No.:	AEE1137127-16C																			
Date:	JAN. 2014																			

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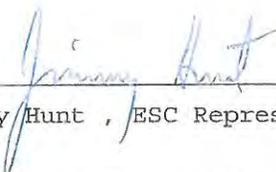
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Fax (615) 758-5859
Fax I.D. 62-0814289
Est. 1970

Allison Whitfield
Gallet - A Terracon Company - B-Ham AL.
110 12th Street North
Birmingham, AL 35203

Report Summary
Thursday August 26, 2010
Report Number: L474957
Samples Received: 08/20/10
Client Project: E1107021
Description: Aladdin Montclair

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:


Jimmy Hunt, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140
NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
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REPORT OF ANALYSIS

August 26, 2010

Allison Whitfield
 Gallet - A Terracon Company - B-Ham
 110 12th Street North
 Birmingham, AL 35203

ESC Sample # : L474957-01

Date Received : August 20, 2010
 Description : Aladdin Montclair

Site ID : BIRMINGHAM, AL

Sample ID : SB-1 2FT

Project # : E1107021

Collected By : Allison Whitfield
 Collection Date : 08/16/10 09:40

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	86.2		%	2510G	08/26/10	1
Volatile Organics						
Acetone	BDL	0.29	mg/kg	8260B	08/22/10	5
Acrylonitrile	BDL	0.058	mg/kg	8260B	08/22/10	5
Benzene	BDL	0.0058	mg/kg	8260B	08/22/10	5
Bromobenzene	BDL	0.0058	mg/kg	8260B	08/22/10	5
Bromodichloromethane	BDL	0.0058	mg/kg	8260B	08/22/10	5
Bromoform	BDL	0.0058	mg/kg	8260B	08/22/10	5
Bromomethane	BDL	0.029	mg/kg	8260B	08/22/10	5
n-Butylbenzene	BDL	0.0058	mg/kg	8260B	08/22/10	5
sec-Butylbenzene	BDL	0.0058	mg/kg	8260B	08/22/10	5
tert-Butylbenzene	BDL	0.0058	mg/kg	8260B	08/22/10	5
Carbon tetrachloride	BDL	0.0058	mg/kg	8260B	08/22/10	5
Chlorobenzene	BDL	0.0058	mg/kg	8260B	08/22/10	5
Chlorodibromomethane	BDL	0.0058	mg/kg	8260B	08/22/10	5
Chloroethane	BDL	0.029	mg/kg	8260B	08/22/10	5
2-Chloroethyl vinyl ether	BDL	0.29	mg/kg	8260B	08/22/10	5
Chloroform	BDL	0.029	mg/kg	8260B	08/22/10	5
Chloromethane	BDL	0.014	mg/kg	8260B	08/22/10	5
2-Chlorotoluene	BDL	0.0058	mg/kg	8260B	08/22/10	5
4-Chlorotoluene	BDL	0.0058	mg/kg	8260B	08/22/10	5
1,2-Dibromo-3-Chloropropane	BDL	0.029	mg/kg	8260B	08/22/10	5
1,2-Dibromoethane	BDL	0.0058	mg/kg	8260B	08/22/10	5
Dibromomethane	BDL	0.0058	mg/kg	8260B	08/22/10	5
1,2-Dichlorobenzene	BDL	0.0058	mg/kg	8260B	08/22/10	5
1,3-Dichlorobenzene	BDL	0.0058	mg/kg	8260B	08/22/10	5
1,4-Dichlorobenzene	BDL	0.0058	mg/kg	8260B	08/22/10	5
Dichlorodifluoromethane	BDL	0.029	mg/kg	8260B	08/22/10	5
1,1-Dichloroethane	BDL	0.0058	mg/kg	8260B	08/22/10	5
1,2-Dichloroethane	BDL	0.0058	mg/kg	8260B	08/22/10	5
1,1-Dichloroethene	BDL	0.0058	mg/kg	8260B	08/22/10	5
cis-1,2-Dichloroethene	BDL	0.0058	mg/kg	8260B	08/22/10	5
trans-1,2-Dichloroethene	BDL	0.0058	mg/kg	8260B	08/22/10	5
1,2-Dichloropropane	BDL	0.0058	mg/kg	8260B	08/22/10	5
1,1-Dichloropropene	BDL	0.0058	mg/kg	8260B	08/22/10	5
1,3-Dichloropropane	BDL	0.0058	mg/kg	8260B	08/22/10	5
cis-1,3-Dichloropropene	BDL	0.0058	mg/kg	8260B	08/22/10	5
trans-1,3-Dichloropropene	BDL	0.0058	mg/kg	8260B	08/22/10	5
2,2-Dichloropropane	BDL	0.0058	mg/kg	8260B	08/22/10	5
Di-isopropyl ether	BDL	0.0058	mg/kg	8260B	08/22/10	5
Ethylbenzene	BDL	0.0058	mg/kg	8260B	08/22/10	5
Hexachloro-1,3-butadiene	BDL	0.0058	mg/kg	8260B	08/22/10	5
Isopropylbenzene	BDL	0.0058	mg/kg	8260B	08/22/10	5

Results listed are dry weight basis.
 BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit (PQL)

Note:
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REPORT OF ANALYSIS

August 26, 2010

Allison Whitfield
 Gallet - A Terracon Company - B-Ham
 110 12th Street North
 Birmingham, AL 35203

ESC Sample # : L474957-01

Date Received : August 20, 2010
 Description : Aladdin Montclair

Site ID : BIRMINGHAM, AL

Sample ID : SB-1 2FT

Project # : E1107021

Collected By : Allison Whitfield
 Collection Date : 08/16/10 09:40

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	BDL	0.0058	mg/kg	8260B	08/22/10	5
2-Butanone (MEK)	BDL	0.058	mg/kg	8260B	08/22/10	5
Methylene Chloride	BDL	0.029	mg/kg	8260B	08/22/10	5
4-Methyl-2-pentanone (MIBK)	BDL	0.058	mg/kg	8260B	08/22/10	5
Methyl tert-butyl ether	BDL	0.0058	mg/kg	8260B	08/22/10	5
Naphthalene	BDL	0.029	mg/kg	8260B	08/22/10	5
n-Propylbenzene	BDL	0.0058	mg/kg	8260B	08/22/10	5
Styrene	BDL	0.0058	mg/kg	8260B	08/22/10	5
1,1,1,2-Tetrachloroethane	BDL	0.0058	mg/kg	8260B	08/22/10	5
1,1,2,2-Tetrachloroethane	BDL	0.0058	mg/kg	8260B	08/22/10	5
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.0058	mg/kg	8260B	08/22/10	5
Tetrachloroethene	BDL	0.0058	mg/kg	8260B	08/22/10	5
Toluene	BDL	0.029	mg/kg	8260B	08/22/10	5
1,2,3-Trichlorobenzene	BDL	0.0058	mg/kg	8260B	08/22/10	5
1,2,4-Trichlorobenzene	BDL	0.0058	mg/kg	8260B	08/22/10	5
1,1,1-Trichloroethane	BDL	0.0058	mg/kg	8260B	08/22/10	5
1,1,2-Trichloroethane	BDL	0.0058	mg/kg	8260B	08/22/10	5
Trichloroethene	BDL	0.0058	mg/kg	8260B	08/22/10	5
Trichlorofluoromethane	BDL	0.029	mg/kg	8260B	08/22/10	5
1,2,3-Trichloropropane	BDL	0.0058	mg/kg	8260B	08/22/10	5
1,2,4-Trimethylbenzene	BDL	0.0058	mg/kg	8260B	08/22/10	5
1,2,3-Trimethylbenzene	BDL	0.0058	mg/kg	8260B	08/22/10	5
1,3,5-Trimethylbenzene	BDL	0.0058	mg/kg	8260B	08/22/10	5
Vinyl chloride	BDL	0.0058	mg/kg	8260B	08/22/10	5
Xylenes, Total	BDL	0.017	mg/kg	8260B	08/22/10	5
Surrogate Recovery						
Toluene-d8	103.		% Rec.	8260B	08/22/10	5
Dibromofluoromethane	105.		% Rec.	8260B	08/22/10	5
4-Bromofluorobenzene	96.1		% Rec.	8260B	08/22/10	5

Results listed are dry weight basis.
 BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit (PQL)

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REPORT OF ANALYSIS

August 25, 2010

Allison Whitfield
Gallet - A Terracon Company - B-Ham
110 12th Street North
Birmingham, AL 35203

ESC Sample # : L474957-02

Date Received : August 20, 2010
Description : Aladdin Montclair

Site ID : BIRMINGHAM, AL

Sample ID : SB-1 4-6FT

Project # : E1107021

Collected By : Allison Whitfield
Collection Date : 08/16/10 10:00

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	77.4		%	2540G	08/26/10	1
Volatile Organics						
Acetone	BDL	0.32	mg/kg	8260B	08/22/10	5
Acrylonitrile	BDL	0.0064	mg/kg	8260B	08/22/10	5
Benzene	BDL	0.0064	mg/kg	8260B	08/22/10	5
Bromobenzene	BDL	0.0064	mg/kg	8260B	08/22/10	5
Bromodichloromethane	BDL	0.0064	mg/kg	8260B	08/22/10	5
Bromoform	BDL	0.0064	mg/kg	8260B	08/22/10	5
Bromomethane	BDL	0.032	mg/kg	8260B	08/22/10	5
n-Butylbenzene	BDL	0.0064	mg/kg	8260B	08/22/10	5
sec-Butylbenzene	BDL	0.0064	mg/kg	8260B	08/22/10	5
tert-Butylbenzene	BDL	0.0064	mg/kg	8260B	08/22/10	5
Carbon tetrachloride	BDL	0.0064	mg/kg	8260B	08/22/10	5
Chlorobenzene	BDL	0.0064	mg/kg	8260B	08/22/10	5
Chlorodibromomethane	BDL	0.0064	mg/kg	8260B	08/22/10	5
Chloroethane	BDL	0.032	mg/kg	8260B	08/22/10	5
2-Chloroethyl vinyl ether	BDL	0.32	mg/kg	8260B	08/22/10	5
Chloroform	BDL	0.032	mg/kg	8260B	08/22/10	5
Chloromethane	BDL	0.016	mg/kg	8260B	08/22/10	5
2-Chlorotoluene	BDL	0.0064	mg/kg	8260B	08/22/10	5
4-Chlorotoluene	BDL	0.0064	mg/kg	8260B	08/22/10	5
1,2-Dibromo-3-Chloropropane	BDL	0.032	mg/kg	8260B	08/22/10	5
1,2-Dibromoethane	BDL	0.0064	mg/kg	8260B	08/22/10	5
Dibromomethane	BDL	0.0064	mg/kg	8260B	08/22/10	5
1,2-Dichlorobenzene	BDL	0.0064	mg/kg	8260B	08/22/10	5
1,3-Dichlorobenzene	BDL	0.0064	mg/kg	8260B	08/22/10	5
1,4-Dichlorobenzene	BDL	0.0064	mg/kg	8260B	08/22/10	5
Dichlorodifluoromethane	BDL	0.032	mg/kg	8260B	08/22/10	5
1,1-Dichloroethane	BDL	0.0064	mg/kg	8260B	08/22/10	5
1,2-Dichloroethane	BDL	0.0064	mg/kg	8260B	08/22/10	5
1,1-Dichloroethene	BDL	0.0064	mg/kg	8260B	08/22/10	5
cis-1,2-Dichloroethene	BDL	0.0064	mg/kg	8260B	08/22/10	5
trans-1,2-Dichloroethene	BDL	0.0064	mg/kg	8260B	08/22/10	5
1,2-Dichloropropane	BDL	0.0064	mg/kg	8260B	08/22/10	5
1,1-Dichloropropene	BDL	0.0064	mg/kg	8260B	08/22/10	5
1,3-Dichloropropene	BDL	0.0064	mg/kg	8260B	08/22/10	5
cis-1,3-Dichloropropene	BDL	0.0064	mg/kg	8260B	08/22/10	5
trans-1,3-Dichloropropene	BDL	0.0064	mg/kg	8260B	08/22/10	5
2,2-Dichloropropane	BDL	0.0064	mg/kg	8260B	08/22/10	5
Di-isopropyl ether	BDL	0.0064	mg/kg	8260B	08/22/10	5
Ethylbenzene	BDL	0.0064	mg/kg	8260B	08/22/10	5
Hexachloro-1,3-butadiene	BDL	0.0064	mg/kg	8260B	08/22/10	5
Isopropylbenzene	BDL	0.0064	mg/kg	8260B	08/22/10	5

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

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REPORT OF ANALYSIS

August 26, 2010

Allison Whitfield
 Gallet - A Terracon Company - B-Ham
 110 12th Street North
 Birmingham, AL 35203

ESC Sample # : L474957-02

Date Received : August 20, 2010
 Description : Aladdin Montclair

Site ID : BIRMINGHAM, AL

Sample ID : SE-1 4-6FT

Project # : E1107021

Collected By : Allison Whitfield
 Collection Date : 08/16/10 10:00

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	BDL	0.0064	mg/kg	8260B	08/22/10	5
2-Butanone (MEK)	BDL	0.064	mg/kg	8260B	08/22/10	5
Methylene Chloride	BDL	0.032	mg/kg	8260B	08/22/10	5
4-Methyl-2-pentanone (MIBK)	BDL	0.064	mg/kg	8260B	08/22/10	5
Methyl tert-butyl ether	BDL	0.0064	mg/kg	8260B	08/22/10	5
Naphthalene	BDL	0.032	mg/kg	8260B	08/22/10	5
n-Propylbenzene	BDL	0.0064	mg/kg	8260B	08/22/10	5
Styrene	BDL	0.0064	mg/kg	8260B	08/22/10	5
1,1,1,2-Tetrachloroethane	BDL	0.0064	mg/kg	8260B	08/22/10	5
1,1,2,2-Tetrachloroethane	BDL	0.0064	mg/kg	8260B	08/22/10	5
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.0064	mg/kg	8260B	08/22/10	5
Tetrachloroethene	BDL	0.0064	mg/kg	8260B	08/22/10	5
Toluene	BDL	0.032	mg/kg	8260B	08/22/10	5
1,2,3-Trichlorobenzene	BDL	0.0064	mg/kg	8260B	08/22/10	5
1,2,4-Trichlorobenzene	BDL	0.0064	mg/kg	8260B	08/22/10	5
1,1,1-Trichloroethane	BDL	0.0064	mg/kg	8260B	08/22/10	5
1,1,2-Trichloroethane	BDL	0.0064	mg/kg	8260B	08/22/10	5
Trichloroethene	BDL	0.0064	mg/kg	8260B	08/22/10	5
Trichlorofluoromethane	BDL	0.032	mg/kg	8260B	08/22/10	5
1,2,3-Trichloropropane	BDL	0.0064	mg/kg	8260B	08/22/10	5
1,2,4-Trimethylbenzene	BDL	0.0064	mg/kg	8260B	08/22/10	5
1,2,3-Trimethylbenzene	BDL	0.0064	mg/kg	8260B	08/22/10	5
1,3,5-Trimethylbenzene	BDL	0.0064	mg/kg	8260B	08/22/10	5
Vinyl chloride	BDL	0.0064	mg/kg	8260B	08/22/10	5
Xylenes, Total	BDL	0.019	mg/kg	8260B	08/22/10	5
Surrogate Recovery						
Toluene-d8	103.		% Rec.	8260B	08/22/10	5
Dibromofluoromethane	104.		% Rec.	8260B	08/22/10	5
4-Bromofluorobenzene	93.4		% Rec.	8260B	08/22/10	5

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

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Est. 1970

REPORT OF ANALYSIS

August 26, 2010

Allison Whitfield
Gallet - A Terracon Company - B-Ham
110 12th Street North
Birmingham, AL 35203

ESC Sample # : L474957-03

Date Received : August 20, 2010
Description : Aladdin Montclair

Site ID : BIRMINGHAM, AL

Sample ID : SB-2 2.5FT

Project # : E1107021

Collected By : Allison Whitfield
Collection Date : 08/16/10 21:13

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	73.7		%	2540G	08/26/10	1
Volatile Organics						
Acetone	BDL	0.34	mg/kg	8260B	08/22/10	5
Acrylonitrile	BDL	0.0068	mg/kg	8260B	08/22/10	5
Benzene	BDL	0.0068	mg/kg	8260B	08/22/10	5
Bromobenzene	BDL	0.0068	mg/kg	8260B	08/22/10	5
Bromodichloromethane	BDL	0.0068	mg/kg	8260B	08/22/10	5
Bromoform	BDL	0.0068	mg/kg	8260B	08/22/10	5
Bromomethane	BDL	0.034	mg/kg	8260B	08/22/10	5
n-Butylbenzene	BDL	0.0068	mg/kg	8260B	08/22/10	5
sec-Butylbenzene	BDL	0.0068	mg/kg	8260B	08/22/10	5
tert-Butylbenzene	BDL	0.0068	mg/kg	8260B	08/22/10	5
Carbon tetrachloride	BDL	0.0068	mg/kg	8260B	08/22/10	5
Chlorobenzene	BDL	0.0068	mg/kg	8260B	08/22/10	5
Chlorodibromomethane	BDL	0.0068	mg/kg	8260B	08/22/10	5
Chloroethane	BDL	0.034	mg/kg	8260B	08/22/10	5
2-Chloroethyl vinyl ether	BDL	0.34	mg/kg	8260B	08/22/10	5
Chloroform	BDL	0.034	mg/kg	8260B	08/22/10	5
Chloromethane	BDL	0.017	mg/kg	8260B	08/22/10	5
2-Chlorotoluene	BDL	0.0068	mg/kg	8260B	08/22/10	5
4-Chlorotoluene	BDL	0.0068	mg/kg	8260B	08/22/10	5
1,2-Dibromo-3-Chloropropane	BDL	0.034	mg/kg	8260B	08/22/10	5
1,2-Dibromoethane	BDL	0.0068	mg/kg	8260B	08/22/10	5
Dibromomethane	BDL	0.0068	mg/kg	8260B	08/22/10	5
1,2-Dichlorobenzene	BDL	0.0068	mg/kg	8260B	08/22/10	5
1,3-Dichlorobenzene	BDL	0.0068	mg/kg	8260B	08/22/10	5
1,4-Dichlorobenzene	BDL	0.0068	mg/kg	8260B	08/22/10	5
Dichlorodifluoromethane	BDL	0.034	mg/kg	8260B	08/22/10	5
1,1-Dichloroethane	BDL	0.0068	mg/kg	8260B	08/22/10	5
1,2-Dichloroethane	BDL	0.0068	mg/kg	8260B	08/22/10	5
1,1-Dichloroethene	BDL	0.0068	mg/kg	8260B	08/22/10	5
cis-1,2-Dichloroethene	BDL	0.0068	mg/kg	8260B	08/22/10	5
trans-1,2-Dichloroethene	BDL	0.0068	mg/kg	8260B	08/22/10	5
1,2-Dichloropropane	BDL	0.0068	mg/kg	8260B	08/22/10	5
1,1-Dichloropropene	BDL	0.0068	mg/kg	8260B	08/22/10	5
1,3-Dichloropropene	BDL	0.0068	mg/kg	8260B	08/22/10	5
cis-1,3-Dichloropropene	BDL	0.0068	mg/kg	8260B	08/22/10	5
trans-1,3-Dichloropropene	BDL	0.0068	mg/kg	8260B	08/22/10	5
2,2-Dichloropropane	BDL	0.0068	mg/kg	8260B	08/22/10	5
Di-isopropyl ether	BDL	0.0068	mg/kg	8260B	08/22/10	5
Ethylbenzene	BDL	0.0068	mg/kg	8260B	08/22/10	5
Hexachloro-1,3-butadiene	BDL	0.0068	mg/kg	8260B	08/22/10	5
Isopropylbenzene	BDL	0.0068	mg/kg	8260B	08/22/10	5

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

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 Est. 1970

REPORT OF ANALYSIS

August 26, 2010

Allison Whitfield
 Gallet - A Terracon Company - B-Ham
 110 12th Street North
 Birmingham, AL 35203

Date Received : August 20, 2010
 Description : Aladdin Montclair
 Sample ID : SB-2 2.5FT
 Collected By : Allison Whitfield
 Collection Date : 08/16/10 21:13

ESC Sample # : L474957-03
 Site ID : BIRMINGHAM, AL
 Project # : E1107021

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	BDL	0.0068	mg/kg	8260B	08/22/10	5
2-Butanone (MEK)	BDL	0.068	mg/kg	8260B	08/22/10	5
Methylene Chloride	BDL	0.034	mg/kg	8260B	08/22/10	5
4-Methyl-2-pentanone (MIBK)	BDL	0.068	mg/kg	8260B	08/22/10	5
Methyl tert-butyl ether	BDL	0.0068	mg/kg	8260B	08/22/10	5
Naphthalene	BDL	0.034	mg/kg	8260B	08/22/10	5
n-Propylbenzene	BDL	0.0068	mg/kg	8260B	08/22/10	5
Styrene	BDL	0.0068	mg/kg	8260B	08/22/10	5
1,1,1,2-Tetrachloroethane	BDL	0.0068	mg/kg	8260B	08/22/10	5
1,1,2,2-Tetrachloroethane	BDL	0.0068	mg/kg	8260B	08/22/10	5
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.0068	mg/kg	8260B	08/22/10	5
Tetrachloroethene	BDL	0.0068	mg/kg	8260B	08/22/10	5
Toluene	BDL	0.034	mg/kg	8260B	08/22/10	5
1,2,3-Trichlorobenzene	BDL	0.0068	mg/kg	8260B	08/22/10	5
1,2,4-Trichlorobenzene	BDL	0.0068	mg/kg	8260B	08/22/10	5
1,1,1-Trichloroethane	BDL	0.0068	mg/kg	8260B	08/22/10	5
1,1,2-Trichloroethane	BDL	0.0068	mg/kg	8260B	08/22/10	5
Trichloroethene	BDL	0.0068	mg/kg	8260B	08/22/10	5
Trichlorofluoromethane	BDL	0.034	mg/kg	8260B	08/22/10	5
1,2,3-Trichloropropane	BDL	0.0068	mg/kg	8260B	08/22/10	5
1,2,4-Trimethylbenzene	BDL	0.0068	mg/kg	8260B	08/22/10	5
1,2,3-Trimethylbenzene	BDL	0.0068	mg/kg	8260B	08/22/10	5
1,3,5-Trimethylbenzene	BDL	0.0068	mg/kg	8260B	08/22/10	5
Vinyl chloride	BDL	0.0068	mg/kg	8260B	08/22/10	5
Xylenes, Total	BDL	0.020	mg/kg	8260B	08/22/10	5
Surrogate Recovery						
Toluene-d8	102.		% Rec.	8260B	08/22/10	5
Dibromofluoromethane	108.		% Rec.	8260B	08/22/10	5
4-Bromofluorobenzene	95.4		% Rec.	8260B	08/22/10	5

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

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REPORT OF ANALYSIS

August 26, 2010

Allison Whitfield
 Gallet - A Terracon Company - B-Ham
 110 12th Street North
 Birmingham, AL 35203

ESC Sample # : L474957-04

Date Received : August 20, 2010
 Description : Aladdin Montclair

Site ID : BIRMINGHAM, AL

Sample ID : SB-2 4-5FT

Project # : E1107021

Collected By : Allison Whitfield
 Collection Date : 08/16/10 21:44

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	73.3		%	2540G	08/26/10	1
Volatile Organics						
Acetone	BDL	0.34	mg/kg	8260B	08/22/10	5
Acrylonitrile	BDL	0.0068	mg/kg	8260B	08/22/10	5
Benzene	BDL	0.0068	mg/kg	8260B	08/22/10	5
Bromobenzene	BDL	0.0068	mg/kg	8260B	08/22/10	5
Bromodichloromethane	BDL	0.0068	mg/kg	8260B	08/22/10	5
Bromoform	BDL	0.0068	mg/kg	8260B	08/22/10	5
Bromomethane	BDL	0.034	mg/kg	8260B	08/22/10	5
n-Butylbenzene	BDL	0.0068	mg/kg	8260B	08/22/10	5
sec-Butylbenzene	BDL	0.0068	mg/kg	8260B	08/22/10	5
tert-Butylbenzene	BDL	0.0068	mg/kg	8260B	08/22/10	5
Carbon tetrachloride	BDL	0.0068	mg/kg	8260B	08/22/10	5
Chlorobenzene	BDL	0.0068	mg/kg	8260B	08/22/10	5
Chlorodibromomethane	BDL	0.0068	mg/kg	8260B	08/22/10	5
Chloroethane	BDL	0.034	mg/kg	8260B	08/22/10	5
2-Chloroethyl vinyl ether	BDL	0.34	mg/kg	8260B	08/22/10	5
Chloroform	BDL	0.034	mg/kg	8260B	08/22/10	5
Chloromethane	BDL	0.017	mg/kg	8260B	08/22/10	5
2-Chlorotoluene	BDL	0.0068	mg/kg	8260B	08/22/10	5
4-Chlorotoluene	BDL	0.0068	mg/kg	8260B	08/22/10	5
1,2-Dibromo-3-Chloropropane	BDL	0.034	mg/kg	8260B	08/22/10	5
1,2-Dibromoethane	BDL	0.0068	mg/kg	8260B	08/22/10	5
Dibromomethane	BDL	0.0068	mg/kg	8260B	08/22/10	5
1,2-Dichlorobenzene	BDL	0.0068	mg/kg	8260B	08/22/10	5
1,3-Dichlorobenzene	BDL	0.0068	mg/kg	8260B	08/22/10	5
1,4-Dichlorobenzene	BDL	0.0068	mg/kg	8260B	08/22/10	5
Dichlorodifluoromethane	BDL	0.034	mg/kg	8260B	08/22/10	5
1,1-Dichloroethane	BDL	0.0068	mg/kg	8260B	08/22/10	5
1,2-Dichloroethane	BDL	0.0068	mg/kg	8260B	08/22/10	5
1,1-Dichloroethene	BDL	0.0068	mg/kg	8260B	08/22/10	5
cis-1,2-Dichloroethene	BDL	0.0068	mg/kg	8260B	08/22/10	5
trans-1,2-Dichloroethene	BDL	0.0068	mg/kg	8260B	08/22/10	5
1,2-Dichloropropane	BDL	0.0068	mg/kg	8260B	08/22/10	5
1,1-Dichloropropene	BDL	0.0068	mg/kg	8260B	08/22/10	5
1,3-Dichloropropane	BDL	0.0068	mg/kg	8260B	08/22/10	5
cis-1,3-Dichloropropene	BDL	0.0068	mg/kg	8260B	08/22/10	5
trans-1,3-Dichloropropene	BDL	0.0068	mg/kg	8260B	08/22/10	5
2,2-Dichloropropane	BDL	0.0068	mg/kg	8260B	08/22/10	5
Di-isopropyl ether	BDL	0.0068	mg/kg	8260B	08/22/10	5
Ethylbenzene	BDL	0.0068	mg/kg	8260B	08/22/10	5
Hexachloro-1,3-butadiene	BDL	0.0068	mg/kg	8260B	08/22/10	5
Isopropylbenzene	BDL	0.0068	mg/kg	8260B	08/22/10	5

Results listed are dry weight basis.
 BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit (PQL)

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REPORT OF ANALYSIS

August 26, 2010

Allison Whitfield
 Gallet - A Terracon Company - B-Ham
 110 12th Street North
 Birmingham, AL 35203

ESC Sample # : L474957-04

Date Received : August 20, 2010
 Description : Aladdin Montclair

Site ID : BIRMINGHAM, AL

Sample ID : SB-2 4-5FF

Project # : E1107021

Collected By : Allison Whitfield
 Collection Date : 08/16/10 21:44

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	BDL	0.0068	mg/kg	8260B	08/22/10	5
2-Butanone (MEK)	EDL	0.068	mg/kg	8260B	08/22/10	5
Methylene Chloride	BDL	0.034	mg/kg	8260B	08/22/10	5
4-Methyl-2-pentanone (MIBK)	BDL	0.068	mg/kg	8260B	08/22/10	5
Methyl tert-butyl ether	BDL	0.0068	mg/kg	8260B	08/22/10	5
Naphthalene	BDL	0.034	mg/kg	8260B	08/22/10	5
n-Propylbenzene	BDL	0.0068	mg/kg	8260B	08/22/10	5
Styrene	BDL	0.0068	mg/kg	8260B	08/22/10	5
1,1,1,2-Tetrachloroethane	BDL	0.0068	mg/kg	8260B	08/22/10	5
1,1,2,2-Tetrachloroethane	BDL	0.0068	mg/kg	8260B	08/22/10	5
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.0068	mg/kg	8260B	08/22/10	5
Tetrachloroethene	BDL	0.0068	mg/kg	8260B	08/22/10	5
Toluene	BDL	0.034	mg/kg	8260B	08/22/10	5
1,2,3-Trichlorobenzene	BDL	0.0068	mg/kg	8260B	08/22/10	5
1,2,4-Trichlorobenzene	BDL	0.0068	mg/kg	8260B	08/22/10	5
1,1,1-Trichloroethane	BDL	0.0068	mg/kg	8260B	08/22/10	5
1,1,2-Trichloroethane	BDL	0.0068	mg/kg	8260B	08/22/10	5
Trichloroethene	BDL	0.0068	mg/kg	8260B	08/22/10	5
Trichlorofluoromethane	BDL	0.034	mg/kg	8260B	08/22/10	5
1,2,3-Trichloropropane	BDL	0.0068	mg/kg	8260B	08/22/10	5
1,2,4-Trimethylbenzene	BDL	0.0068	mg/kg	8260B	08/22/10	5
1,2,3-Trimethylbenzene	BDL	0.0068	mg/kg	8260B	08/22/10	5
1,3,5-Trimethylbenzene	BDL	0.0068	mg/kg	8260B	08/22/10	5
Vinyl chloride	BDL	0.0068	mg/kg	8260B	08/22/10	5
Xylenes, Total	BDL	0.020	mg/kg	8260B	08/22/10	5
Surrogate Recovery						
Toluene-d8	98.7		% Rec.	8260B	08/22/10	5
Dibromofluoromethane	102.		% Rec.	8260B	08/22/10	5
4-Bromofluorobenzene	91.8		% Rec.	8260B	08/22/10	5

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

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REPORT OF ANALYSIS

August 26, 2010

Allison Whitfield
Gallet - A Terracon Company - B-Ham
110 12th Street North
Birmingham, AL 35203

ESC Sample # : L474957-05

Date Received : August 20, 2010
Description : Aladdin Montclair

Site ID : BIRMINGHAM, AL

Sample ID : SB-3 4-6FT

Project # : E1107021

Collected By : Allison Whitfield
Collection Date : 08/16/10 19:05

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	84.3		%	2540G	08/26/10	1
Volatile Organics						
Acetone	BDL	0.30	mg/kg	8260B	08/23/10	5
Acrylonitrile	BDL	0.059	mg/kg	8260B	08/23/10	5
Benzene	BDL	0.0059	mg/kg	8260B	08/23/10	5
Bromobenzene	BDL	0.0059	mg/kg	8260B	08/23/10	5
Bromodichloromethane	BDL	0.0059	mg/kg	8260B	08/23/10	5
Bromoform	BDL	0.0059	mg/kg	8260B	08/23/10	5
Bromomethane	BDL	0.030	mg/kg	8260B	08/23/10	5
n-Butylbenzene	BDL	0.0059	mg/kg	8260B	08/23/10	5
sec-Butylbenzene	BDL	0.0059	mg/kg	8260B	08/23/10	5
tert-Butylbenzene	BDL	0.0059	mg/kg	8260B	08/23/10	5
Carbon tetrachloride	BDL	0.0059	mg/kg	8260B	08/23/10	5
Chlorobenzene	BDL	0.0059	mg/kg	8260B	08/23/10	5
Chlorodibromomethane	BDL	0.0059	mg/kg	8260B	08/23/10	5
Chloroethane	BDL	0.030	mg/kg	8260B	08/23/10	5
2-Chloroethyl vinyl ether	BDL	0.30	mg/kg	8260B	08/23/10	5
Chloroform	BDL	0.030	mg/kg	8260B	08/23/10	5
Chloromethane	BDL	0.015	mg/kg	8260B	08/23/10	5
2-Chlorotoluene	BDL	0.0059	mg/kg	8260B	08/23/10	5
4-Chlorotoluene	BDL	0.0059	mg/kg	8260B	08/23/10	5
1,2-Dibromo-3-Chloropropane	BDL	0.030	mg/kg	8260B	08/23/10	5
1,2-Dibromoethane	BDL	0.0059	mg/kg	8260B	08/23/10	5
Dibromomethane	BDL	0.0059	mg/kg	8260B	08/23/10	5
1,2-Dichlorobenzene	BDL	0.0059	mg/kg	8260B	08/23/10	5
1,3-Dichlorobenzene	BDL	0.0059	mg/kg	8260B	08/23/10	5
1,4-Dichlorobenzene	BDL	0.0059	mg/kg	8260B	08/23/10	5
Dichlorodifluoromethane	BDL	0.030	mg/kg	8260B	08/23/10	5
1,1-Dichloroethane	BDL	0.0059	mg/kg	8260B	08/23/10	5
1,2-Dichloroethane	BDL	0.0059	mg/kg	8260B	08/23/10	5
1,1-Dichloroethene	BDL	0.0059	mg/kg	8260B	08/23/10	5
cis-1,2-Dichloroethene	BDL	0.0059	mg/kg	8260B	08/23/10	5
trans-1,2-Dichloroethene	BDL	0.0059	mg/kg	8260B	08/23/10	5
1,2-Dichloropropane	BDL	0.0059	mg/kg	8260B	08/23/10	5
1,1-Dichloropropene	BDL	0.0059	mg/kg	8260B	08/23/10	5
1,3-Dichloropropane	BDL	0.0059	mg/kg	8260B	08/23/10	5
cis-1,3-Dichloropropene	BDL	0.0059	mg/kg	8260B	08/23/10	5
trans-1,3-Dichloropropene	BDL	0.0059	mg/kg	8260B	08/23/10	5
2,2-Dichloropropane	BDL	0.0059	mg/kg	8260B	08/23/10	5
Di-isopropyl ether	BDL	0.0059	mg/kg	8260B	08/23/10	5
Ethylbenzene	BDL	0.0059	mg/kg	8260B	08/23/10	5
Hexachloro-1,3-butadiene	BDL	0.0059	mg/kg	8260B	08/23/10	5
Isopropylbenzene	BDL	0.0059	mg/kg	8260B	08/23/10	5

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

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REPORT OF ANALYSIS

August 26, 2010

Allison Whitfield
 Gallet - A Terracon Company - B-Ham
 110 12th Street North
 Birmingham, AL 35203

ESC Sample # : L474957-05

Date Received : August 20, 2010
 Description : Aladdin Montclair

Site ID : BIRMINGHAM, AL

Sample ID : SB-3 4-6FT

Project # : E1107021

Collected By : Allison Whitfield
 Collection Date : 08/16/10 19:05

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	BDL	0.0059	mg/kg	8260B	08/23/10	5
2-Butanone (MEK)	BDL	0.059	mg/kg	8260B	08/23/10	5
Methylene Chloride	BDL	0.030	mg/kg	8260B	08/23/10	5
4-Methyl-2-pentanone (MIBK)	BDL	0.059	mg/kg	8260B	08/23/10	5
Methyl tert-butyl ether	BDL	0.0059	mg/kg	8260B	08/23/10	5
Naphthalene	BDL	0.030	mg/kg	8260B	08/23/10	5
n-Propylbenzene	BDL	0.0059	mg/kg	8260B	08/23/10	5
Styrene	EDL	0.0059	mg/kg	8260B	08/23/10	5
1,1,1,2-Tetrachloroethane	BDL	0.0059	mg/kg	8260B	08/23/10	5
1,1,2,2-Tetrachloroethane	EDL	0.0059	mg/kg	8260B	08/23/10	5
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.0059	mg/kg	8260B	08/23/10	5
Tetrachloroethene	BDL	0.0059	mg/kg	8260B	08/23/10	5
Toluene	BDL	0.030	mg/kg	8260B	08/23/10	5
1,2,3-Trichlorobenzene	BDL	0.0059	mg/kg	8260B	08/23/10	5
1,2,4-Trichlorobenzene	BDL	0.0059	mg/kg	8260B	08/23/10	5
1,1,1-Trichloroethane	BDL	0.0059	mg/kg	8260B	08/23/10	5
1,1,2-Trichloroethane	BDL	0.0059	mg/kg	8260B	08/23/10	5
Trichloroethene	BDL	0.0059	mg/kg	8260B	08/23/10	5
Trichlorofluoromethane	BDL	0.030	mg/kg	8260B	08/23/10	5
1,2,3-Trichloropropane	BDL	0.0059	mg/kg	8260B	08/23/10	5
1,2,4-Trimethylbenzene	BDL	0.0059	mg/kg	8260B	08/23/10	5
1,2,3-Trimethylbenzene	BDL	0.0059	mg/kg	8260B	08/23/10	5
1,3,5-Trimethylbenzene	BDL	0.0059	mg/kg	8260B	08/23/10	5
Vinyl chloride	BDL	0.0059	mg/kg	8260B	08/23/10	5
Xylenes, Total	BDL	0.018	mg/kg	8260B	08/23/10	5
Surrogate Recovery						
Toluene-d8	93.3		% Rec.	8260B	08/23/10	5
Dibromofluoromethane	91.2		% Rec.	8260B	08/23/10	5
4-Bromofluorobenzene	99.7		% Rec.	8260B	08/23/10	5

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

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REPORT OF ANALYSIS

August 26, 2010

Allison Whitfield
 Gallet - A Terracon Company - B-Ham
 110 12th Street North
 Birmingham, AL 35203

Date Received : August 20, 2010
 Description : Aladdin Montclair
 Sample ID : SB-3 8-10FT
 Collected By : Allison Whitfield
 Collection Date : 08/16/10 19:10

ESC Sample # : L474957-06
 Site ID : BIRMINGHAM, AL
 Project # : E1107021

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	74.2		%	2540G	08/25/10	1
Volatiles Organics						
Acetone	BDL	0.14	mg/kg	8260B	08/21/10	5
Acrylonitrile	BDL	0.0067	mg/kg	8260B	08/21/10	5
Benzene	BDL	0.0067	mg/kg	8260B	08/21/10	5
Bromobenzene	BDL	0.0067	mg/kg	8260B	08/21/10	5
Bromo-dichloromethane	BDL	0.0067	mg/kg	8260B	08/21/10	5
Bromoform	BDL	0.0067	mg/kg	8260B	08/21/10	5
Bromomethane	BDL	0.034	mg/kg	8260B	08/21/10	5
n-Butylbenzene	BDL	0.0067	mg/kg	8260B	08/21/10	5
sec-Butylbenzene	BDL	0.0067	mg/kg	8260B	08/21/10	5
tert-Butylbenzene	BDL	0.0067	mg/kg	8260B	08/21/10	5
Carbon tetrachloride	BDL	0.0067	mg/kg	8260B	08/21/10	5
Chlorobenzene	BDL	0.0067	mg/kg	8260B	08/21/10	5
Chlorodibromomethane	BDL	0.0067	mg/kg	8260B	08/21/10	5
Chloroethane	BDL	0.034	mg/kg	8260B	08/21/10	5
2-Chloroethyl vinyl ether	BDL	0.34	mg/kg	8260B	08/21/10	5
Chloroform	BDL	0.034	mg/kg	8260B	08/21/10	5
Chloromethane	BDL	0.017	mg/kg	8260B	08/21/10	5
2-Chlorotoluene	BDL	0.0067	mg/kg	8260B	08/21/10	5
4-Chlorotoluene	BDL	0.0067	mg/kg	8260B	08/21/10	5
1,2-Dibromo-3-Chloropropane	BDL	0.034	mg/kg	8260B	08/21/10	5
1,2-Dibromoethane	BDL	0.0067	mg/kg	8260B	08/21/10	5
Dibromomethane	BDL	0.0067	mg/kg	8260B	08/21/10	5
1,2-Dichlorobenzene	BDL	0.0067	mg/kg	8260B	08/21/10	5
1,3-Dichlorobenzene	BDL	0.0067	mg/kg	8260B	08/21/10	5
1,4-Dichlorobenzene	BDL	0.0067	mg/kg	8260B	08/21/10	5
Dichlorodifluoromethane	BDL	0.034	mg/kg	8260B	08/21/10	5
1,1-Dichloroethane	BDL	0.0067	mg/kg	8260B	08/21/10	5
1,2-Dichloroethane	BDL	0.0067	mg/kg	8260B	08/21/10	5
1,1-Dichloroethene	BDL	0.0067	mg/kg	8260B	08/21/10	5
cis-1,2-Dichloroethene	BDL	0.0067	mg/kg	8260B	08/21/10	5
trans-1,2-Dichloroethene	BDL	0.0067	mg/kg	8260B	08/21/10	5
1,2-Dichloropropane	BDL	0.0067	mg/kg	8260B	08/21/10	5
1,1-Dichloropropene	BDL	0.0067	mg/kg	8260B	08/21/10	5
1,3-Dichloropropane	BDL	0.0067	mg/kg	8260B	08/21/10	5
cis-1,3-Dichloropropene	BDL	0.0067	mg/kg	8260B	08/21/10	5
trans-1,3-Dichloropropene	BDL	0.0067	mg/kg	8260B	08/21/10	5
2,2-Dichloropropane	BDL	0.0067	mg/kg	8260B	08/21/10	5
Di-isopropyl ether	BDL	0.0067	mg/kg	8260B	08/21/10	5
Ethylbenzene	BDL	0.0067	mg/kg	8260B	08/21/10	5
Hexachloro-1,3-butadiene	BDL	0.0067	mg/kg	8260B	08/21/10	5
Isopropylbenzene	BDL	0.0067	mg/kg	8260B	08/21/10	5

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

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REPORT OF ANALYSIS

August 26, 2010

Allison Whitfield
 Gallet - A Terracon Company - B-Ham
 110 12th Street North
 Birmingham, AL 35203

ESC Sample # : L474957-06

Date Received : August 20, 2010
 Description : Aladdin Montclair

Site ID : BIRMINGHAM, AL

Sample ID : SB-3 8-10FT

Project # : E1107021

Collected By : Allison Whitfield
 Collection Date : 08/16/10 19:10

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	BDL	0.0067	mg/kg	8260B	08/21/10	5
2-Butanone (MEK)	BDL	0.067	mg/kg	8260B	08/21/10	5
Methylene Chloride	BDL	0.034	mg/kg	8260B	08/21/10	5
4-Methyl-2-pentanone (MIBK)	BDL	0.067	mg/kg	8260B	08/21/10	5
Methyl tert-butyl ether	BDL	0.0067	mg/kg	8260B	08/21/10	5
Naphthalene	BDL	0.034	mg/kg	8260B	08/21/10	5
n-Propylbenzene	BDL	0.0067	mg/kg	8260B	08/21/10	5
Styrene	BDL	0.0067	mg/kg	8260B	08/21/10	5
1,1,1,2-Tetrachloroethane	BDL	0.0067	mg/kg	8260B	08/21/10	5
1,1,2,2-Tetrachloroethane	BDL	0.0067	mg/kg	8260B	08/21/10	5
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.0067	mg/kg	8260B	08/21/10	5
Tetrachloroethene	BDL	0.0067	mg/kg	8260B	08/21/10	5
Toluene	BDL	0.034	mg/kg	8260B	08/21/10	5
1,2,3-Trichlorobenzene	BDL	0.0067	mg/kg	8260B	08/21/10	5
1,2,4-Trichlorobenzene	BDL	0.0067	mg/kg	8260B	08/21/10	5
1,1,1-Trichloroethane	BDL	0.0067	mg/kg	8260B	08/21/10	5
1,1,2-Trichloroethane	BDL	0.0067	mg/kg	8260B	08/21/10	5
Trichloroethene	BDL	0.0067	mg/kg	8260B	08/21/10	5
Trichlorofluoromethane	BDL	0.034	mg/kg	8260B	08/21/10	5
1,2,3-Trichloropropane	BDL	0.0067	mg/kg	8260B	08/21/10	5
1,2,4-Trimethylbenzene	BDL	0.0067	mg/kg	8260B	08/21/10	5
1,2,3-Trimethylbenzene	BDL	0.0067	mg/kg	8260B	08/21/10	5
1,3,5-Trimethylbenzene	BDL	0.0067	mg/kg	8260B	08/21/10	5
Vinyl chloride	BDL	0.0067	mg/kg	8260B	08/21/10	5
Xylenes, Total	BDL	0.020	mg/kg	8260B	08/21/10	5
Surrogate Recovery						
Toluene-d8	97.6		% Rec.	8260B	08/21/10	5
Dibromofluoromethane	100.		% Rec.	8260B	08/21/10	5
4-Bromofluorobenzene	92.1		% Rec.	8260B	08/21/10	5

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

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REPORT OF ANALYSIS

August 26, 2010

Allison Whitfield
 Gallet - A Terracon Company - B-Ham
 110 12th Street North
 Birmingham, AL 35203

ESC Sample # : L474957-07

Date Received : August 20, 2010
 Description : Aladdin Montclair

Site ID : BIRMINGHAM, AL

Sample ID : SB-4 6-8FT

Project # : E1107021

Collected By : Allison Whitfield
 Collection Date : 08/17/10 19:25

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	81.9		%	2540G	08/26/10	1
Volatile Organics						
Acetone	EDL	0.30	mg/kg	8260B	08/21/10	5
Acrylonitrile	BDL	0.0061	mg/kg	8260B	08/21/10	5
Benzene	BDL	0.0061	mg/kg	8260B	08/21/10	5
Bromobenzene	BDL	0.0061	mg/kg	8260B	08/21/10	5
Bromodichloromethane	BDL	0.0061	mg/kg	8260B	08/21/10	5
Bromoform	BDL	0.0061	mg/kg	8260B	08/21/10	5
Bromomethane	BDL	0.030	mg/kg	8260B	08/21/10	5
n-Butylbenzene	BDL	0.0061	mg/kg	8260B	08/21/10	5
sec-Butylbenzene	BDL	0.0061	mg/kg	8260B	08/21/10	5
tert-Butylbenzene	BDL	0.0061	mg/kg	8260B	08/21/10	5
Carbon tetrachloride	BDL	0.0061	mg/kg	8260B	08/21/10	5
Chlorobenzene	BDL	0.0061	mg/kg	8260B	08/21/10	5
Chlorodibromomethane	BDL	0.0061	mg/kg	8260B	08/21/10	5
Chloroethane	BDL	0.030	mg/kg	8260B	08/21/10	5
2-Chloroethyl vinyl ether	BDL	0.30	mg/kg	8260B	08/21/10	5
Chloroform	BDL	0.030	mg/kg	8260B	08/21/10	5
Chloromethane	BDL	0.015	mg/kg	8260B	08/21/10	5
2-Chlorotoluene	BDL	0.0061	mg/kg	8260B	08/21/10	5
4-Chlorotoluene	BDL	0.0061	mg/kg	8260B	08/21/10	5
1,2-Dibromo-3-Chloropropane	BDL	0.030	mg/kg	8260B	08/21/10	5
1,2-Dibromoethane	BDL	0.0061	mg/kg	8260B	08/21/10	5
Dibromomethane	BDL	0.0061	mg/kg	8260B	08/21/10	5
1,2-Dichlorobenzene	BDL	0.0061	mg/kg	8260B	08/21/10	5
1,3-Dichlorobenzene	BDL	0.0061	mg/kg	8260B	08/21/10	5
1,4-Dichlorobenzene	BDL	0.0061	mg/kg	8260B	08/21/10	5
Dichlorodifluoromethane	BDL	0.030	mg/kg	8260B	08/21/10	5
1,1-Dichloroethane	BDL	0.0061	mg/kg	8260B	08/21/10	5
1,2-Dichloroethane	BDL	0.0061	mg/kg	8260B	08/21/10	5
1,1-Dichloroethene	BDL	0.0061	mg/kg	8260B	08/21/10	5
cis-1,2-Dichloroethene	BDL	0.0061	mg/kg	8260B	08/21/10	5
trans-1,2-Dichloroethene	BDL	0.0061	mg/kg	8260B	08/21/10	5
1,2-Dichloropropane	BDL	0.0061	mg/kg	8260B	08/21/10	5
1,1-Dichloropropene	BDL	0.0061	mg/kg	8260B	08/21/10	5
1,3-Dichloropropane	BDL	0.0061	mg/kg	8260B	08/21/10	5
cis-1,3-Dichloropropene	BDL	0.0061	mg/kg	8260B	08/21/10	5
trans-1,3-Dichloropropene	BDL	0.0061	mg/kg	8260B	08/21/10	5
2,2-Dichloropropane	BDL	0.0061	mg/kg	8260B	08/21/10	5
Di-isopropyl ether	BDL	0.0061	mg/kg	8260B	08/21/10	5
Ethylbenzene	BDL	0.0061	mg/kg	8260B	08/21/10	5
Hexachloro-1,3-butadiene	BDL	0.0061	mg/kg	8260B	08/21/10	5
Isopropylbenzene	BDL	0.0061	mg/kg	8260B	08/21/10	5

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

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REPORT OF ANALYSIS

August 26, 2010

Allison Whitfield
 Gallet - A Terracon Company - B-Ham
 110 12th Street North
 Birmingham, AL 35203

ESC Sample # : L474957-07

Date Received : August 20, 2010
 Description : Aladdin Montclair

Site ID : BIRMINGHAM, AL

Sample ID : SB-4 6-8FT

Project # : E1107021

Collected By : Allison Whitfield
 Collection Date : 08/17/10 19:25

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	BDL	0.0061	mg/kg	8260B	08/21/10	5
2-Butanone (MEK)	BDL	0.061	mg/kg	8260B	08/21/10	5
Methylene Chloride	BDL	0.030	mg/kg	8260B	08/21/10	5
4-Methyl-2-pentanone (MIBK)	BDL	0.061	mg/kg	8260B	08/21/10	5
Methyl tert-butyl ether	BDL	0.0061	mg/kg	8260B	08/21/10	5
Naphthalene	BDL	0.030	mg/kg	8260B	08/21/10	5
n-Propylbenzene	BDL	0.0061	mg/kg	8260B	08/21/10	5
Styrene	BDL	0.0061	mg/kg	8260B	08/21/10	5
1,1,1,2-Tetrachloroethane	BDL	0.0061	mg/kg	8260B	08/21/10	5
1,1,2,2-Tetrachloroethane	BDL	0.0061	mg/kg	8260B	08/21/10	5
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.0061	mg/kg	8260B	08/21/10	5
Tetrachloroethene	BDL	0.0061	mg/kg	8260B	08/21/10	5
Toluene	BDL	0.030	mg/kg	8260B	08/21/10	5
1,2,3-Trichlorobenzene	BDL	0.0061	mg/kg	8260B	08/21/10	5
1,2,4-Trichlorobenzene	BDL	0.0061	mg/kg	8260B	08/21/10	5
1,1,1-Trichloroethane	BDL	0.0061	mg/kg	8260B	08/21/10	5
1,1,2-Trichloroethane	BDL	0.0061	mg/kg	8260B	08/21/10	5
Trichloroethene	BDL	0.0061	mg/kg	8260B	08/21/10	5
Trichlorofluoromethane	BDL	0.030	mg/kg	8260B	08/21/10	5
1,2,3-Trichloropropane	BDL	0.0061	mg/kg	8260B	08/21/10	5
1,2,4-Trimethylbenzene	BDL	0.0061	mg/kg	8260B	08/21/10	5
1,2,3-Trimethylbenzene	BDL	0.0061	mg/kg	8260B	08/21/10	5
1,3,5-Trimethylbenzene	BDL	0.0061	mg/kg	8260B	08/21/10	5
Vinyl chloride	BDL	0.0061	mg/kg	8260B	08/21/10	5
Xylenes, Total	BDL	0.018	mg/kg	8260B	08/21/10	5
Surrogate Recovery						
Toluene-d8	99.1		% Rec.	8260B	08/21/10	5
Dibromofluoromethane	103.		% Rec.	8260B	08/21/10	5
4-Bromofluorobenzene	92.6		% Rec.	8260B	08/21/10	5

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

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REPORT OF ANALYSIS

August 26, 2010

Allison Whitfield
Gallet - A Terracon Company - E-Ham
110 12th Street North
Birmingham, AL 35203

ESC Sample # : I474957-08

Date Received : August 20, 2010
Description : Aladdin Montclair

Site ID : BIRMINGHAM, AL

Sample ID : SB-4 10-11.5FT

Project # : E1107021

Collected By : Allison Whitfield
Collection Date : 08/17/10 19:33

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	83.4		%	2540G	08/26/10	1
Volatile Organics						
Acetone	BDL	0.30	mg/kg	8260B	08/23/10	5
Acrylonitrile	BDL	0.060	mg/kg	8260B	08/23/10	5
Benzene	BDL	0.0060	mg/kg	8260B	08/23/10	5
Bromobenzene	BDL	0.0060	mg/kg	8260B	08/23/10	5
Bromodichloromethane	BDL	0.0060	mg/kg	8260B	08/23/10	5
Bromoform	BDL	0.0060	mg/kg	8260B	08/23/10	5
Bromomethane	BDL	0.030	mg/kg	8260B	08/23/10	5
n-Butylbenzene	BDL	0.0060	mg/kg	8260B	08/23/10	5
sec-Butylbenzene	BDL	0.0060	mg/kg	8260B	08/23/10	5
tert-Butylbenzene	BDL	0.0060	mg/kg	8260B	08/23/10	5
Carbon tetrachloride	BDL	0.0060	mg/kg	8260B	08/23/10	5
Chlorobenzene	BDL	0.0060	mg/kg	8260B	08/23/10	5
Chlorodibromomethane	BDL	0.0060	mg/kg	8260B	08/23/10	5
Chloroethane	BDL	0.030	mg/kg	8260B	08/23/10	5
2-Chloroethyl vinyl ether	BDL	0.30	mg/kg	8260B	08/23/10	5
Chloroform	BDL	0.030	mg/kg	8260B	08/23/10	5
Chloromethane	BDL	0.015	mg/kg	8260B	08/23/10	5
2-Chlorotoluene	BDL	0.0060	mg/kg	8260B	08/23/10	5
4-Chlorotoluene	BDL	0.0060	mg/kg	8260B	08/23/10	5
1,2-Dibromo-3-Chloropropane	BDL	0.030	mg/kg	8260B	08/23/10	5
1,2-Dibromoethane	BDL	0.0060	mg/kg	8260B	08/23/10	5
Dibromomethane	BDL	0.0060	mg/kg	8260B	08/23/10	5
1,2-Dichlorobenzene	BDL	0.0060	mg/kg	8260B	08/23/10	5
1,3-Dichlorobenzene	BDL	0.0060	mg/kg	8260B	08/23/10	5
1,4-Dichlorobenzene	BDL	0.0060	mg/kg	8260B	08/23/10	5
Dichlorodifluoromethane	BDL	0.030	mg/kg	8260B	08/23/10	5
1,1-Dichloroethane	BDL	0.0060	mg/kg	8260B	08/23/10	5
1,2-Dichloroethane	BDL	0.0060	mg/kg	8260B	08/23/10	5
1,1-Dichloroethene	BDL	0.0060	mg/kg	8260B	08/23/10	5
cis-1,2-Dichloroethene	BDL	0.0060	mg/kg	8260B	08/23/10	5
trans-1,2-Dichloroethene	BDL	0.0060	mg/kg	8260B	08/23/10	5
1,2-Dichloropropane	BDL	0.0060	mg/kg	8260B	08/23/10	5
1,1-Dichloropropene	BDL	0.0060	mg/kg	8260B	08/23/10	5
1,3-Dichloropropane	BDL	0.0060	mg/kg	8260B	08/23/10	5
cis-1,3-Dichloropropene	BDL	0.0060	mg/kg	8260B	08/23/10	5
trans-1,3-Dichloropropene	BDL	0.0060	mg/kg	8260B	08/23/10	5
2,2-Dichloropropane	BDL	0.0060	mg/kg	8260B	08/23/10	5
Di-isopropyl ether	BDL	0.0060	mg/kg	8260B	08/23/10	5
Ethylbenzene	BDL	0.0060	mg/kg	8260B	08/23/10	5
Hexachloro-1,3-butadiene	BDL	0.0060	mg/kg	8260B	08/23/10	5
Isopropylbenzene	BDL	0.0060	mg/kg	8260B	08/23/10	5

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

August 26, 2010

Allison Whitfield
 Gallet - A Terracon Company - B-Ham
 110 12th Street North
 Birmingham, AL 35203

ESC Sample # : L474957-08

Date Received : August 20, 2010
 Description : Aladdin Montclair

Site ID : BIRMINGHAM, AL

Sample ID : SB-4 10-11.5FT

Project # : E1107021

Collected By : Allison Whitfield
 Collection Date : 08/17/10 19:33

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	BDL	0.0060	mg/kg	8260B	08/23/10	5
2-Butanone (MEK)	BDL	0.060	mg/kg	8260B	08/23/10	5
Methylene Chloride	BDL	0.030	mg/kg	8260B	08/23/10	5
4-Methyl-2-pentanone (MIBK)	BDL	0.060	mg/kg	8260B	08/23/10	5
Methyl tert-butyl ether	BDL	0.0060	mg/kg	8260B	08/23/10	5
Naphthalene	BDL	0.030	mg/kg	8260B	08/23/10	5
n-Propylbenzene	BDL	0.0060	mg/kg	8260B	08/23/10	5
Styrene	BDL	0.0060	mg/kg	8260B	08/23/10	5
1,1,1,2-Tetrachloroethane	BDL	0.0060	mg/kg	8260B	08/23/10	5
1,1,2,2-Tetrachloroethane	BDL	0.0060	mg/kg	8260B	08/23/10	5
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.0060	mg/kg	8260B	08/23/10	5
Tetrachloroethene	BDL	0.0060	mg/kg	8260B	08/23/10	5
Toluene	BDL	0.030	mg/kg	8260B	08/23/10	5
1,2,3-Trichlorobenzene	BDL	0.0060	mg/kg	8260B	08/23/10	5
1,2,4-Trichlorobenzene	BDL	0.0060	mg/kg	8260B	08/23/10	5
1,1,1-Trichloroethane	BDL	0.0060	mg/kg	8260B	08/23/10	5
1,1,2-Trichloroethane	BDL	0.0060	mg/kg	8260B	08/23/10	5
Trichloroethene	BDL	0.0060	mg/kg	8260B	08/23/10	5
Trichlorofluoromethane	BDL	0.030	mg/kg	8260B	08/23/10	5
1,2,3-Trichloropropane	BDL	0.0060	mg/kg	8260B	08/23/10	5
1,2,4-Trimethylbenzene	BDL	0.0060	mg/kg	8260B	08/23/10	5
1,2,3-Trimethylbenzene	BDL	0.0060	mg/kg	8260B	08/23/10	5
1,3,5-Trimethylbenzene	BDL	0.0060	mg/kg	8260B	08/23/10	5
Vinyl chloride	BDL	0.0060	mg/kg	8260B	08/23/10	5
Xylenes, Total	BDL	0.018	mg/kg	8260B	08/23/10	5
Surrogate Recovery						
Toluene-d8	92.9		% Rec.	8260B	08/23/10	5
Dibromofluoromethane	91.1		% Rec.	8260B	08/23/10	5
4-Bromofluorobenzene	96.7		% Rec.	8260B	08/23/10	5

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

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REPORT OF ANALYSIS

August 26, 2010

Allison Whitfield
Gallet - A Terracon Company B-Ham
110 12th Street North
Birmingham, AL 35203

ESC Sample # : L474957-09

Date Received : August 20, 2010
Description : Aladdin Montclair

Site ID : BIRMINGHAM, AL

Sample ID : SB-5 4-6FT

Project # : E1107021

Collected By : Allison Whitfield
Collection Date : 08/17/10 21:25

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	79.4		%	2540G	08/26/10	1
Volatile Organics						
Acetone	BDL	0.31	mg/kg	8260B	08/21/10	5
Acrylonitrile	BDL	0.0063	mg/kg	8260B	08/21/10	5
Benzene	BDL	0.0063	mg/kg	8260B	08/21/10	5
Bromobenzene	BDL	0.0063	mg/kg	8260B	08/21/10	5
Bromodichloromethane	BDL	0.0063	mg/kg	8260B	08/21/10	5
Bromoform	BDL	0.031	mg/kg	8260B	08/21/10	5
Bromomethane	BDL	0.0063	mg/kg	8260B	08/21/10	5
n-Butylbenzene	BDL	0.0063	mg/kg	8260B	08/21/10	5
sec-Butylbenzene	BDL	0.0063	mg/kg	8260B	08/21/10	5
tert-Butylbenzene	BDL	0.0063	mg/kg	8260B	08/21/10	5
Carbon tetrachloride	BDL	0.0063	mg/kg	8260B	08/21/10	5
Chlorobenzene	BDL	0.0063	mg/kg	8260B	08/21/10	5
Chlorodibromomethane	BDL	0.031	mg/kg	8260B	08/21/10	5
Chloroethane	BDL	0.31	mg/kg	8260B	08/21/10	5
2-Chloroethyl vinyl ether	BDL	0.031	mg/kg	8260B	08/21/10	5
Chloroform	BDL	0.016	mg/kg	8260B	08/21/10	5
Chloromethane	BDL	0.0063	mg/kg	8260B	08/21/10	5
2-Chlorotoluene	BDL	0.0063	mg/kg	8260B	08/21/10	5
4-Chlorotoluene	BDL	0.031	mg/kg	8260B	08/21/10	5
1,2-Dibromo-3-Chloropropane	BDL	0.0063	mg/kg	8260B	08/21/10	5
1,2-Dibromoethane	BDL	0.0063	mg/kg	8260B	08/21/10	5
Dibromomethane	BDL	0.0063	mg/kg	8260B	08/21/10	5
1,2-Dichlorobenzene	BDL	0.0063	mg/kg	8260B	08/21/10	5
1,3-Dichlorobenzene	BDL	0.0063	mg/kg	8260B	08/21/10	5
1,4-Dichlorobenzene	BDL	0.031	mg/kg	8260B	08/21/10	5
Dichlorodifluoromethane	BDL	0.0063	mg/kg	8260B	08/21/10	5
1,1-Dichloroethane	BDL	0.0063	mg/kg	8260B	08/21/10	5
1,2-Dichloroethane	BDL	0.0063	mg/kg	8260B	08/21/10	5
1,1-Dichloroethene	BDL	0.0063	mg/kg	8260B	08/21/10	5
cis-1,2-Dichloroethene	BDL	0.0063	mg/kg	8260B	08/21/10	5
trans-1,2-Dichloroethene	BDL	0.0063	mg/kg	8260B	08/21/10	5
1,2-Dichloropropane	BDL	0.0063	mg/kg	8260B	08/21/10	5
1,1-Dichloropropene	BDL	0.0063	mg/kg	8260B	08/21/10	5
1,3-Dichloropropane	BDL	0.0063	mg/kg	8260B	08/21/10	5
cis-1,3-Dichloropropene	BDL	0.0063	mg/kg	8260B	08/21/10	5
trans-1,3-Dichloropropene	BDL	0.0063	mg/kg	8260B	08/21/10	5
2,2-Dichloropropane	BDL	0.0063	mg/kg	8260B	08/21/10	5
Di-isopropyl ether	BDL	0.0063	mg/kg	8260B	08/21/10	5
Ethylbenzene	BDL	0.0063	mg/kg	8260B	08/21/10	5
Hexachloro-1,3-butadiene	BDL	0.0063	mg/kg	8260B	08/21/10	5
Isopropylbenzene	BDL	0.0063	mg/kg	8260B	08/21/10	5

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

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REPORT OF ANALYSIS

August 26, 2010

Allison Whitfield
 Gallet - A Terracon Company - B-Ham
 110 12th Street North
 Birmingham, AL 35203

ESC Sample # : L474957-09

Date Received : August 20, 2010
 Description : Aladdin Montclair

Site ID : BIRMINGHAM, AL

Sample ID : SB-5 4-6FT

Project # : E1107021

Collected By : Allison Whitfield
 Collection Date : 08/17/10 21:25

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	BDL	0.0063	mg/kg	8260B	08/21/10	5
2-Butanone (MEK)	BDL	0.063	mg/kg	8260B	08/21/10	5
Methylene Chloride	BDL	0.031	mg/kg	8260B	08/21/10	5
4-Methyl-2-pentanone (MIBK)	BDL	0.063	mg/kg	8260B	08/21/10	5
Methyl tert-butyl ether	EDL	0.0063	mg/kg	8260B	08/21/10	5
Naphthalene	BDL	0.031	mg/kg	8260B	08/21/10	5
n-Propylbenzene	BDL	0.0063	mg/kg	8260B	08/21/10	5
Styrene	BDL	0.0063	mg/kg	8260B	08/21/10	5
1,1,1,2-Tetrachloroethane	BDL	0.0063	mg/kg	8260B	08/21/10	5
1,1,2,2-Tetrachloroethane	BDL	0.0063	mg/kg	8260B	08/21/10	5
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.0063	mg/kg	8260B	08/21/10	5
Tetrachloroethene	BDL	0.0063	mg/kg	8260B	08/21/10	5
Toluene	BDL	0.031	mg/kg	8260B	08/21/10	5
1,2,3-Trichlorobenzene	BDL	0.0063	mg/kg	8260B	08/21/10	5
1,2,4-Trichlorobenzene	BDL	0.0063	mg/kg	8260B	08/21/10	5
1,1,1-Trichloroethane	BDL	0.0063	mg/kg	8260B	08/21/10	5
1,1,2-Trichloroethane	BDL	0.0063	mg/kg	8260B	08/21/10	5
Trichloroethene	BDL	0.0063	mg/kg	8260B	08/21/10	5
Trichlorofluoromethane	BDL	0.031	mg/kg	8260B	08/21/10	5
1,2,3-Trichloropropane	BDL	0.0063	mg/kg	8260B	08/21/10	5
1,2,4-Trimethylbenzene	BDL	0.0063	mg/kg	8260B	08/21/10	5
1,2,3-Trimethylbenzene	BDL	0.0063	mg/kg	8260B	08/21/10	5
1,3,5-Trimethylbenzene	BDL	0.0063	mg/kg	8260B	08/21/10	5
Vinyl chloride	BDL	0.0063	mg/kg	8260B	08/21/10	5
Xylenes, Total	BDL	0.019	mg/kg	8260B	08/21/10	5
Surrogate Recovery						
Toluene-d8	101.		% Rec.	8260B	08/21/10	5
Dibromofluoromethane	106.		% Rec.	8260B	08/21/10	5
4-Bromofluorobenzene	90.7		% Rec.	8260B	08/21/10	5

Results listed are dry weight basis.
 BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit (POL)

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REPORT OF ANALYSIS

August 26, 2010

Allison Whitfield
 Gallet - A Terracon Company - B-Ham
 110 12th Street North
 Birmingham, AL 35203

ESC Sample # : L474957-10

Date Received : August 20, 2010
 Description : Aladdin Montclair

Site ID : BIRMINGHAM, AL

Sample ID : SB-5 8-8.5FT

Project # : E1107021

Collected By : Allison Whitfield
 Collection Date : 08/17/10 23:00

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	82.2		%	2540G	08/26/10	1
Volatile Organics						
Acetone	BDL	0.30	mg/kg	8260B	08/21/10	5
Acrylonitrile	BDL	0.0061	mg/kg	8260B	08/21/10	5
Benzene	BDL	0.0061	mg/kg	8260B	08/21/10	5
Bromobenzene	BDL	0.0061	mg/kg	8260B	08/21/10	5
Bromodichloromethane	BDL	0.0061	mg/kg	8260B	08/21/10	5
Bromoform	BDL	0.030	mg/kg	8260B	08/21/10	5
Bromomethane	BDL	0.0061	mg/kg	8260B	08/21/10	5
n-Butylbenzene	BDL	0.0061	mg/kg	8260B	08/21/10	5
sec-Butylbenzene	BDL	0.0061	mg/kg	8260B	08/21/10	5
tert-Butylbenzene	BDL	0.0061	mg/kg	8260B	08/21/10	5
Carbon tetrachloride	BDL	0.0061	mg/kg	8260B	08/21/10	5
Chlorobenzene	BDL	0.0061	mg/kg	8260B	08/21/10	5
Chlorodibromomethane	BDL	0.030	mg/kg	8260B	08/21/10	5
Chloroethane	BDL	0.30	mg/kg	8260B	08/21/10	5
2-Chloroethyl vinyl ether	BDL	0.030	mg/kg	8260B	08/21/10	5
Chloroform	BDL	0.015	mg/kg	8260B	08/21/10	5
Chloromethane	BDL	0.0061	mg/kg	8260B	08/21/10	5
2-Chlorotoluene	BDL	0.0061	mg/kg	8260B	08/21/10	5
4-Chlorotoluene	BDL	0.030	mg/kg	8260B	08/21/10	5
1,2-Dibromo-3-Chloropropane	BDL	0.0061	mg/kg	8260B	08/21/10	5
1,2-Dibromoethane	BDL	0.0061	mg/kg	8260B	08/21/10	5
Dibromomethane	BDL	0.0061	mg/kg	8260B	08/21/10	5
1,2-Dichlorobenzene	BDL	0.0061	mg/kg	8260B	08/21/10	5
1,3-Dichlorobenzene	BDL	0.0061	mg/kg	8260B	08/21/10	5
1,4-Dichlorobenzene	BDL	0.030	mg/kg	8260B	08/21/10	5
Dichlorodifluoromethane	BDL	0.0061	mg/kg	8260B	08/21/10	5
1,1-Dichloroethane	BDL	0.0061	mg/kg	8260B	08/21/10	5
1,2-Dichloroethane	BDL	0.0061	mg/kg	8260B	08/21/10	5
1,1-Dichloroethene	BDL	0.0061	mg/kg	8260B	08/21/10	5
cis-1,2-Dichloroethene	BDL	0.0061	mg/kg	8260B	08/21/10	5
trans-1,2-Dichloroethene	BDL	0.0061	mg/kg	8260B	08/21/10	5
1,2-Dichloropropane	BDL	0.0061	mg/kg	8260B	08/21/10	5
1,1-Dichloropropene	BDL	0.0061	mg/kg	8260B	08/21/10	5
1,3-Dichloropropane	BDL	0.0061	mg/kg	8260B	08/21/10	5
cis-1,3-Dichloropropene	BDL	0.0061	mg/kg	8260B	08/21/10	5
trans-1,3-Dichloropropene	BDL	0.0061	mg/kg	8260B	08/21/10	5
2,2-Dichloropropane	BDL	0.0061	mg/kg	8260B	08/21/10	5
Di-isopropyl ether	BDL	0.0061	mg/kg	8260B	08/21/10	5
Ethylbenzene	BDL	0.0061	mg/kg	8260B	08/21/10	5
Hexachloro-1,3-butadiene	BDL	0.0061	mg/kg	8260B	08/21/10	5
Isopropylbenzene	BDL	0.0061	mg/kg	8260B	08/21/10	5

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

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REPORT OF ANALYSIS

August 26, 2010

Allison Whitfield
 Gallet - A Terracon Company - B-Ham
 110 12th Street North
 Birmingham, AL 35203

Date Received : August 20, 2010
 Description : Aladdin Montclair
 Sample ID : SB-5 8-8.5FT
 Collected By : Allison Whitfield
 Collection Date : 08/17/10 23:00

ESC Sample # : L474957-10
 Site ID : BIRMINGHAM, AL
 Project # : E1107021

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	BDL	0.0061	mg/kg	8260B	08/21/10	5
2-Butanone (MEK)	EDL	0.061	mg/kg	8260B	08/21/10	5
Methylene Chloride	BDL	0.030	mg/kg	8260B	08/21/10	5
4-Methyl-2-pentanone (MIBK)	BDL	0.061	mg/kg	8260B	08/21/10	5
Methyl tert-butyl ether	BDL	0.0061	mg/kg	8260B	08/21/10	5
Naphthalene	BDL	0.030	mg/kg	8260B	08/21/10	5
n-Propylbenzene	BDL	0.0061	mg/kg	8260B	08/21/10	5
Styrene	BDL	0.0061	mg/kg	8260B	08/21/10	5
1,1,1,2-Tetrachloroethane	BDL	0.0061	mg/kg	8260B	08/21/10	5
1,1,2,2-Tetrachloroethane	BDL	0.0061	mg/kg	8260B	08/21/10	5
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.0061	mg/kg	8260B	08/21/10	5
Tetrachloroethene	BDL	0.0061	mg/kg	8260B	08/21/10	5
Toluene	BDL	0.030	mg/kg	8260B	08/21/10	5
1,2,3-Trichlorobenzene	BDL	0.0061	mg/kg	8260B	08/21/10	5
1,2,4-Trichlorobenzene	BDL	0.0061	mg/kg	8260B	08/21/10	5
1,1,1-Trichloroethane	BDL	0.0061	mg/kg	8260B	08/21/10	5
1,1,2-Trichloroethane	BDL	0.0061	mg/kg	8260B	08/21/10	5
Trichloroethene	BDL	0.0061	mg/kg	8260B	08/21/10	5
Trichlorofluoromethane	BDL	0.030	mg/kg	8260B	08/21/10	5
1,2,3-Trichloropropane	BDL	0.0061	mg/kg	8260B	08/21/10	5
1,2,4-Trimethylbenzene	BDL	0.0061	mg/kg	8260B	08/21/10	5
1,2,3-Trimethylbenzene	BDL	0.0061	mg/kg	8260B	08/21/10	5
1,3,5-Trimethylbenzene	BDL	0.0061	mg/kg	8260B	08/21/10	5
Vinyl chloride	BDL	0.0061	mg/kg	8260B	08/21/10	5
Xylenes, Total	BDL	0.018	mg/kg	8260B	08/21/10	5
Surrogate Recovery						
Toluene-d8	100.		% Rec.	8260B	08/21/10	5
Dibromofluoromethane	114.		% Rec.	8260B	08/21/10	5
4-Bromofluorobenzene	88.9		% Rec.	8260B	08/21/10	5

Results listed are dry weight basis.
 BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit (PQL)

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Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L474957-04	WG494805	SAMP	Bromoform	R1341109	J4
	WG494805	SAMP	1,2-Dibromo-3-Chloropropane	R1341109	J4
	WG494805	SAMP	1,2-Dichlorobenzene	R1341109	J4
	WG494805	SAMP	1,4-Dichlorobenzene	R1341109	J4
	WG494805	SAMP	1,1,1,2-Tetrachloroethane	R1341109	J4
L474957-05	WG494805	SAMP	Bromoform	R1341109	J4
	WG494805	SAMP	1,2-Dibromo-3-Chloropropane	R1341109	J4
	WG494805	SAMP	1,2-Dichlorobenzene	R1341109	J4
	WG494805	SAMP	1,4-Dichlorobenzene	R1341109	J4
	WG494805	SAMP	1,1,1,2-Tetrachloroethane	R1341109	J4
L474957-08	WG494805	SAMP	Bromoform	R1341109	J4
	WG494805	SAMP	1,2-Dibromo-3-Chloropropane	R1341109	J4
	WG494805	SAMP	1,2-Dichlorobenzene	R1341109	J4
	WG494805	SAMP	1,4-Dichlorobenzene	R1341109	J4
	WG494805	SAMP	1,1,1,2-Tetrachloroethane	R1341109	J4

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J4	The associated batch QC was outside the established quality control range for accuracy.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Gallet - A Terracon Company - B-Ham AL.
 110 12th Street North
 Birmingham, AL 35203

Report to: Allison Whitfield
 Project Description: Aladdin Montclair
 Phone: (205) 942-1289
 FAX: (205) 443-1266
 Collected by (print): *Allison Whitfield*
 Collected by (signature): *Allison Whitfield*
 immediately packed on ice N Y A

Billing information:
 Millie Decker
 110 12th Street North
 Birmingham, AL 35203

Chain of Custody
 Page of

KESC
 L-A-B S-C-I-E-N-C-E-S
 12065 Lebanon Road
 Mt. Juliet, TN 37122
 Phone: (800) 767-5859
 Phone: (615) 758-5858
 Fax: (615) 758-5859

Sample ID	Comp/Grab	Matrix*	Depth	Date Results Needed		No. of Cntrs	Remarks/Contaminant	Sample # (lab only)
				Email? <u> </u> No <u> </u> Yes <u> </u>	FAX? <u> </u> No <u> </u> Yes <u> </u>			
SB-1 - 2'	Core	SS	2'	2/16/10	2/16/10	2	V8260 2zClr-NoPres	6474957-01
SB-1 - 4-6'		SS	4-6'	2/16/10	2/16/10	2	V8260 2zClr-NoPres	02
SB-2 - 2-5'		SS	2-5'	2/16/10	2/16/10	2	V8260 2zClr-NoPres	07
SB-2 - 4-5'		SS	4-5'	2/16/10	2/16/10	2	V8260 2zClr-NoPres	04
SB-3 - 4-6'		SS	4-6'	2/16/10	2/16/10	2	V8260 2zClr-NoPres	05
SB-3 - 8-10'		SS	8-10'	2/17/10	2/17/10	2	V8260 2zClr-NoPres	06
SB-4 - 6-8'		SS	6-8'	2/17/10	2/17/10	2	V8260 2zClr-NoPres	07
SB-4 - 10-16.5'		SS	10-16.5'	2/17/10	2/17/10	2	V8260 2zClr-NoPres	08
SB-5 - 4-6'		SS	4-6'	2/17/10	2/17/10	2	V8260 2zClr-NoPres	09

Analysis/Container/Preservative: V8260 40mlAmb-HCl

Accnum: **GALLET** (lab use only)
 Template/Prelogin: **T66396/P329194**
 Cooler #: *8-10-106m*
 Shipped Via: **FedEX Ground**

pH Temp
 Flow Other

Condition: (lab use only)
 COC Seal Intact: Y N NA
 pH Checked: NCF

Samples returned via: UPS FedEx Courier
 Temp: *7-56* Bottles Received: *2/1-202*
 Date: *8-20-10* Time: *12:30*

Received by (Signature): *[Signature]* Time: *13:05*
 Received by (Signature): *[Signature]* Time: *13:05*
 Received for lab by (Signature): *[Signature]* Time: *13:05*

*Matrix: SS - Soil GW - Groundwater WW - Waste/Water DW - Drinking Water OT - Other

Remarks:

Gallet - A Terracon Company - B-Ham AL.
 110 12th Street North
 Birmingham, AL 35203

Billing information:
 Millie Decker
 110 12th Street North
 Birmingham, AL 35203

Report to: **Allison Whitfield** Email: **apwhitfieldsmith@terracon.com**

Project Description: **Aladdin Montclair** City/State Collected: **Al**

Client Project #: **E1107021** Lab Project #: **GALLET-E1107021**

Site/Facility ID#: **E1107021** P.O.#:

Phone: (205) 942-1289
 FAX: (205) 443-1266

Collected by (print): *[Signature]*
 Collected by (signature): *[Signature]*
 Immediately packed on loc N Y X

Chain of Custody Page of

ESC
 L.A.B S.C.I.E.N.C.E.S
 12065 Lebanon Road
 Mt. Juliet, TN 37122
 Phone: (800) 767-5859
 Phone: (615) 758-5858
 Fax: (615) 758-5859

Acctnum: **GALLET** (lab use only)
 Template/Prelogin **T66396/P329194**
 Cooler #: **8-15-10 6m**
 Shipped Via: **FedEX Ground**

Remarks/Contaminant Sample # (lab only)
V8260 20zClr-NoPres **TS 20zClr-NoPres** **V8260 20zClr-NoPres** **V8260 40mlAmb-HCl**
LV74957-10

Sample ID	Comp/Grab	Matrix*	Depth	Date Results Needed		No. of Cntrs	Analysis/Container/Preservative
				Email? <u> </u> No <u> </u> Yes <u> </u>	FAX? <u> </u> No <u> </u> Yes <u> </u>		
SB-5-2-BS	Grab	SS	7-25	8/10	2500	2	X
SB-0-1-1-GALLET	Grab	SS				2	X
SB-		SS				2	X
SB-		SS				2	X
SB-		SS				2	X
SB-		SS				2	X
MW-1		GW				2	X
MW-2		GW				2	X
MW-3		GW				2	X

*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other

pH Temp
 Flow Other

Remarks: **Do Run Duplicate**

Relinquished by: (Signature) <i>[Signature]</i>	Date: 8/10/13 05	Time: 13:05	Received by: (Signature) <i>[Signature]</i>	Date: 8-20-10	Time: 12:30	Samples returned via: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> Courier	Condition: <i>[Signature]</i>
Relinquished by: (Signature) <i>[Signature]</i>	Date: 8-20-10	Time: 12:30	Received by: (Signature) <i>[Signature]</i>	Date: 8-20-10	Time: 12:30	Temp: 29.0 Bottles Received: 290	COC Seal Intact: <u> </u> Y <u> </u> N <u> </u> NA <u> </u>
Relinquished by: (Signature) <i>[Signature]</i>	Date: 8-20-10	Time: 12:30	Received for lab by: (Signature) <i>[Signature]</i>	Date: 8-20-10	Time: 12:30	pH Checked: <u> </u> NCF: <u> </u>	



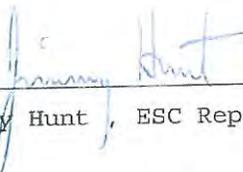
12065 Lebanon Rd.
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Tax I.D. 62-0814289
Est. 1970

Allison Whitfield
Gallet - A Terracon Company - B-Ham AL.
110 12th Street North
Birmingham, AL 35203

<p style="text-align: center;">Report Summary</p> <p style="text-align: center;">Thursday December 23, 2010</p> <p style="text-align: center;">Report Number: L474957</p> <p style="text-align: center;">Samples Received: 08/20/10</p> <p style="text-align: center;">Client Project: E1107021</p> <p style="text-align: center;">Description: Aladdin Cleaners Montclair</p>

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:


Jimmy Hunt, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140
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REPORT OF ANALYSIS

December 23, 2010

Allison Whitfield
 Gallet - A Terracon Company - B-Ham
 110 12th Street North
 Birmingham, AL 35203

Date Received : August 20, 2010
 Description : Aladdin Montclair
 Sample ID : SB-1 2FT
 Collected By : Allison Whitfield
 Collection Date : 08/16/10 09:40

ESC Sample # : L474957-01
 Site ID : BIRMINGHAM, AL
 Project # : E1107021

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Total Solids	36.2			%		2540G	08/26/10	1
Volatile Organics								
Acetone	U	0.052	0.29	mg/kg		8260B	08/22/10	5
Acrylonitrile	U	0.013	0.058	mg/kg		8260B	08/22/10	5
Benzene	U	0.0021	0.0058	mg/kg		8260B	08/22/10	5
Bromobenzene	U	0.0015	0.0058	mg/kg		8260B	08/22/10	5
Bromodichloromethane	U	0.0017	0.0058	mg/kg		8260B	08/22/10	5
Bromoform	U	0.0016	0.0058	mg/kg		8260B	08/22/10	5
Bromomethane	U	0.0078	0.029	mg/kg		8260B	08/22/10	5
n-Butylbenzene	U	0.0017	0.0058	mg/kg		8260B	08/22/10	5
sec-Butylbenzene	U	0.0015	0.0058	mg/kg		8260B	08/22/10	5
tert-Butylbenzene	U	0.0014	0.0058	mg/kg		8260B	08/22/10	5
Carbon tetrachloride	U	0.0021	0.0058	mg/kg		8260B	08/22/10	5
Chlorobenzene	U	0.0017	0.0058	mg/kg		8260B	08/22/10	5
Chlorodibromomethane	U	0.0015	0.0058	mg/kg		8260B	08/22/10	5
Chloroethane	U	0.0098	0.029	mg/kg		8260B	08/22/10	5
2-Chloroethyl vinyl ether	U	0.091	0.29	mg/kg		8260B	08/22/10	5
Chloroform	U	0.0022	0.029	mg/kg		8260B	08/22/10	5
Chloromethane	U	0.0052	0.014	mg/kg		8260B	08/22/10	5
2-Chlorotoluene	U	0.0016	0.0058	mg/kg		8260B	08/22/10	5
4-Chlorotoluene	U	0.0015	0.0058	mg/kg		8260B	08/22/10	5
1,2-Dibromo-3-Chloropropane	U	0.0053	0.029	mg/kg		8260B	08/22/10	5
1,2-Dibromoethane	U	0.0015	0.0058	mg/kg		8260B	08/22/10	5
Dibromomethane	U	0.0023	0.0058	mg/kg		8260B	08/22/10	5
1,2-Dichlorobenzene	U	0.0016	0.0058	mg/kg		8260B	08/22/10	5
1,3-Dichlorobenzene	U	0.0014	0.0058	mg/kg		8260B	08/22/10	5
1,4-Dichlorobenzene	U	0.0018	0.0058	mg/kg		8260B	08/22/10	5
Dichlorodifluoromethane	U	0.0021	0.029	mg/kg		8260B	08/22/10	5
1,1-Dichloroethane	U	0.0021	0.0058	mg/kg		8260B	08/22/10	5
1,2-Dichloroethane	U	0.0019	0.0058	mg/kg		8260B	08/22/10	5
1,1-Dichloroethene	U	0.0026	0.0058	mg/kg		8260B	08/22/10	5
cis-1,2-Dichloroethene	U	0.0026	0.0058	mg/kg		8260B	08/22/10	5
trans-1,2-Dichloroethene	U	0.0021	0.0058	mg/kg		8260B	08/22/10	5
1,2-Dichloropropane	U	0.0030	0.0058	mg/kg		8260B	08/22/10	5
1,1-Dichloropropene	U	0.0017	0.0058	mg/kg		8260B	08/22/10	5
1,3-Dichloropropane	U	0.0019	0.0058	mg/kg		8260B	08/22/10	5
cis-1,3-Dichloropropene	U	0.0015	0.0058	mg/kg		8260B	08/22/10	5
trans-1,3-Dichloropropene	U	0.0020	0.0058	mg/kg		8260B	08/22/10	5
2,2-Dichloropropane	U	0.0018	0.0058	mg/kg		8260B	08/22/10	5
Di-isopropyl ether	U	0.0018	0.0058	mg/kg		8260B	08/22/10	5
Ethylbenzene	U	0.0016	0.0058	mg/kg		8260B	08/22/10	5
Hexachloro-1,3-butadiene	U	0.0017	0.0058	mg/kg		8260B	08/22/10	5

Results listed are dry weight basis.

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

December 23, 2010

Allison Whitfield
 Gallet - A Terracon Company - B-Ham
 110 12th Street North
 Birmingham, AL 35203

Date Received : August 20, 2010
 Description : Aladdin Montclair

Sample ID : SB-1 2FT

Collected By : Allison Whitfield
 Collection Date : 08/16/10 09:40

ESC Sample # : L474957-01

Site ID : BIRMINGHAM, AL

Project # : E1107021

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Isopropylbenzene	U	0.0017	0.0058	mg/kg		8260B	08/22/10	5
p-Isopropyltoluene	U	0.0016	0.0058	mg/kg		8260B	08/22/10	5
2-Butanone (MEK)	U	0.022	0.058	mg/kg		8260B	08/22/10	5
Methylene Chloride	U	0.0024	0.029	mg/kg		8260B	08/22/10	5
4-Methyl-2-pentanone (MIBK)	U	0.011	0.058	mg/kg		8260B	08/22/10	5
Methyl tert-butyl ether	U	0.0018	0.0058	mg/kg		8260B	08/22/10	5
Naphthalene	U	0.0014	0.029	mg/kg		8260B	08/22/10	5
n-Propylbenzene	U	0.0016	0.0058	mg/kg		8260B	08/22/10	5
Styrene	U	0.0012	0.0058	mg/kg		8260B	08/22/10	5
1,1,1,2-Tetrachloroethane	U	0.0020	0.0058	mg/kg		8260B	08/22/10	5
1,1,2,2-Tetrachloroethane	U	0.0014	0.0058	mg/kg		8260B	08/22/10	5
1,1,2-Trichloro-1,2,2-trifluoro	U	0.0043	0.0058	mg/kg		8260B	08/22/10	5
Tetrachloroethene	U	0.0022	0.0058	mg/kg		8260B	08/22/10	5
Toluene	U	0.0017	0.029	mg/kg		8260B	08/22/10	5
1,2,3-Trichlorobenzene	U	0.0015	0.0058	mg/kg		8260B	08/22/10	5
1,2,4-Trichlorobenzene	U	0.0019	0.0058	mg/kg		8260B	08/22/10	5
1,1,1-Trichloroethane	U	0.0023	0.0058	mg/kg		8260B	08/22/10	5
1,1,2-Trichloroethane	U	0.0027	0.0058	mg/kg		8260B	08/22/10	5
Trichloroethene	U	0.0017	0.0058	mg/kg		8260B	08/22/10	5
Trichlorofluoromethane	U	0.0035	0.029	mg/kg		8260B	08/22/10	5
1,2,3-Trichloropropane	U	0.0034	0.0058	mg/kg		8260B	08/22/10	5
1,2,4-Trimethylbenzene	U	0.0017	0.0058	mg/kg		8260B	08/22/10	5
1,2,3-Trimethylbenzene	U	0.0016	0.0058	mg/kg		8260B	08/22/10	5
1,3,5-Trimethylbenzene	U	0.0015	0.0058	mg/kg		8260B	08/22/10	5
Vinyl chloride	U	0.0026	0.0058	mg/kg		8260B	08/22/10	5
Xylenes, Total	U	0.0023	0.017	mg/kg		8260B	08/22/10	5
Surrogate Recovery				% Rec.		8260B	08/22/10	5
Toluene-d8	103.			% Rec.		8260B	08/22/10	5
Dibromofluoromethane	105.			% Rec.		8260B	08/22/10	5
4-Bromofluorobenzene	96.1			% Rec.		8260B	08/22/10	5

Results listed are dry weight basis.

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

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REPORT OF ANALYSIS

December 23, 2010

Allison Whitfield
 Gallet - A Terracon Company - B-Ham
 110 12th Street North
 Birmingham, AL 35203

ESC Sample # : I474957-02

Date Received : August 20, 2010
 Description : Aladdin Montclair

Site ID : BIRMINGHAM, AL

Sample ID : SB-1 4-6FT

Project # : E1107021

Collected By : Allison Whitfield
 Collection Date : 08/16/10 10:00

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Total Solids	77.4			%		2540G	08/26/10	1
Volatile Organics								
Acetone	U	0.052	0.32	mg/kg		8260B	08/22/10	5
Acrylonitrile	U	0.013	0.064	mg/kg		8260B	08/22/10	5
Benzene	U	0.0021	0.0064	mg/kg		8260B	08/22/10	5
Bromobenzene	U	0.0015	0.0064	mg/kg		8260B	08/22/10	5
Bromodichloromethane	U	0.0017	0.0064	mg/kg		8260B	08/22/10	5
Bromoform	U	0.0016	0.0064	mg/kg		8260B	08/22/10	5
Bromomethane	U	0.0078	0.032	mg/kg		8260B	08/22/10	5
n-Butylbenzene	U	0.0017	0.0064	mg/kg		8260B	08/22/10	5
sec-Butylbenzene	U	0.0015	0.0064	mg/kg		8260B	08/22/10	5
tert-Butylbenzene	U	0.0014	0.0064	mg/kg		8260B	08/22/10	5
Carbon tetrachloride	U	0.0021	0.0064	mg/kg		8260B	08/22/10	5
Chlorobenzene	U	0.0017	0.0064	mg/kg		8260B	08/22/10	5
Chlorodibromomethane	U	0.0015	0.0064	mg/kg		8260B	08/22/10	5
Chloroethane	U	0.0098	0.032	mg/kg		8260B	08/22/10	5
2-Chloroethyl vinyl ether	U	0.091	0.32	mg/kg		8260B	08/22/10	5
Chloroform	U	0.0022	0.032	mg/kg		8260B	08/22/10	5
Chloromethane	U	0.0052	0.016	mg/kg		8260B	08/22/10	5
2-Chlorotoluene	U	0.0016	0.0064	mg/kg		8260B	08/22/10	5
4-Chlorotoluene	U	0.0015	0.0064	mg/kg		8260B	08/22/10	5
1,2-Dibromo-3-Chloropropane	U	0.0053	0.032	mg/kg		8260B	08/22/10	5
1,2-Dibromoethane	U	0.0015	0.0064	mg/kg		8260B	08/22/10	5
Dibromomethane	U	0.0023	0.0064	mg/kg		8260B	08/22/10	5
1,2-Dichlorobenzene	U	0.0016	0.0064	mg/kg		8260B	08/22/10	5
1,3-Dichlorobenzene	U	0.0014	0.0064	mg/kg		8260B	08/22/10	5
1,4-Dichlorobenzene	U	0.0018	0.0064	mg/kg		8260B	08/22/10	5
Dichlorodifluoromethane	U	0.0021	0.032	mg/kg		8260B	08/22/10	5
1,1-Dichloroethane	U	0.0021	0.0064	mg/kg		8260B	08/22/10	5
1,2-Dichloroethane	U	0.0019	0.0064	mg/kg		8260B	08/22/10	5
1,1-Dichloroethene	U	0.0026	0.0064	mg/kg		8260B	08/22/10	5
cis-1,2-Dichloroethene	U	0.0026	0.0064	mg/kg		8260B	08/22/10	5
trans-1,2-Dichloroethene	U	0.0021	0.0064	mg/kg		8260B	08/22/10	5
1,2-Dichloropropane	U	0.0030	0.0064	mg/kg		8260B	08/22/10	5
1,1-Dichloropropene	U	0.0017	0.0064	mg/kg		8260B	08/22/10	5
1,3-Dichloropropene	U	0.0019	0.0064	mg/kg		8260B	08/22/10	5
cis-1,3-Dichloropropene	U	0.0015	0.0064	mg/kg		8260B	08/22/10	5
trans-1,3-Dichloropropene	U	0.0020	0.0064	mg/kg		8260B	08/22/10	5
2,2-Dichloropropane	U	0.0018	0.0064	mg/kg		8260B	08/22/10	5
Di-isopropyl ether	U	0.0018	0.0064	mg/kg		8260B	08/22/10	5
Ethylbenzene	U	0.0016	0.0064	mg/kg		8260B	08/22/10	5
Hexachloro-1,3-butadiene	U	0.0017	0.0064	mg/kg		8260B	08/22/10	5

Results listed are dry weight basis.

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

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Tax I.D. 62-0814269

Est. 1970

REPORT OF ANALYSIS

December 23, 2010

Allison Whitfield
 Gallet - A Terracon Company - B-Ham
 110 12th Street North
 Birmingham, AL 35203

Date Received : August 20, 2010
 Description : Aladdin Montclair
 Sample ID : SB-1 4-6FF
 Collected By : Allison Whitfield
 Collection Date : 08/16/10 10:00

ESC Sample # : L474957-02

Site ID : BIRMINGHAM, AL

Project # : E1107021

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Isopropylbenzene	U	0.0017	0.0064	mg/kg		8260B	08/22/10	5
p-Isopropyltoluene	U	0.0016	0.0064	mg/kg		8260B	08/22/10	5
2-Butanone (MEK)	U	0.022	0.064	mg/kg		8260B	08/22/10	5
Methylene Chloride	U	0.0024	0.032	mg/kg		8260B	08/22/10	5
4-Methyl-2-pentanone (MIBK)	U	0.011	0.064	mg/kg		8260B	08/22/10	5
Methyl tert-butyl ether	U	0.0018	0.0064	mg/kg		8260B	08/22/10	5
Naphthalene	U	0.0014	0.032	mg/kg		8260B	08/22/10	5
n-Propylbenzene	U	0.0016	0.0064	mg/kg		8260B	08/22/10	5
Styrene	U	0.0012	0.0064	mg/kg		8260B	08/22/10	5
1,1,1,2-Tetrachloroethane	U	0.0020	0.0064	mg/kg		8260B	08/22/10	5
1,1,2,2-Tetrachloroethane	U	0.0014	0.0064	mg/kg		8260B	08/22/10	5
1,1,2-Trichloro-1,2,2-trifluoro	U	0.0043	0.0064	mg/kg		8260B	08/22/10	5
Tetrachloroethene	U	0.0022	0.0064	mg/kg		8260B	08/22/10	5
Toluene	U	0.0017	0.032	mg/kg		8260B	08/22/10	5
1,2,3-Trichlorobenzene	U	0.0015	0.0064	mg/kg		8260B	08/22/10	5
1,2,4-Trichlorobenzene	U	0.0019	0.0064	mg/kg		8260B	08/22/10	5
1,1,1-Trichloroethane	U	0.0023	0.0064	mg/kg		8260B	08/22/10	5
1,1,2-Trichloroethane	U	0.0027	0.0064	mg/kg		8260B	08/22/10	5
Trichloroethene	U	0.0017	0.0064	mg/kg		8260B	08/22/10	5
Trichlorofluoromethane	U	0.0035	0.032	mg/kg		8260B	08/22/10	5
1,2,3-Trichloropropane	U	0.0034	0.0064	mg/kg		8260B	08/22/10	5
1,2,4-Trimethylbenzene	U	0.0017	0.0064	mg/kg		8260B	08/22/10	5
1,2,3-Trimethylbenzene	U	0.0016	0.0064	mg/kg		8260B	08/22/10	5
1,3,5-Trimethylbenzene	U	0.0015	0.0064	mg/kg		8260B	08/22/10	5
Vinyl chloride	U	0.0026	0.0064	mg/kg		8260B	08/22/10	5
Xylenes, Total	U	0.0023	0.019	mg/kg		8260B	08/22/10	5
Surrogate Recovery				% Rec.		8260B	08/22/10	5
Toluene-d8	103.			% Rec.		8260B	08/22/10	5
Dibromofluoromethane	104.			% Rec.		8260B	08/22/10	5
4-Bromofluorobenzene	93.4			% Rec.		8260B	08/22/10	5

Results listed are dry weight basis.

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

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Est. 1970

REPORT OF ANALYSIS

December 23, 2010

Allison Whitfield
 Gallet - A Terracon Company - B-Ham
 110 12th Street North
 Birmingham, AL 35203

Date Received : August 20, 2010
 Description : Aladdin Montclair
 Sample ID : SB-2 2.5FT
 Collected By : Allison Whitfield
 Collection Date : 08/16/10 21:13

ESC Sample # : L474957-03
 Site ID : BIRMINGHAM, AL
 Project # : E1107021

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Total Solids	73.7			%		2540G	08/26/10	1
Volatile Organics								
Acetone	U	0.052	0.34	mg/kg		8260B	08/22/10	5
Acrylonitrile	U	0.013	0.068	mg/kg		8260B	08/22/10	5
Benzene	U	0.0021	0.0068	mg/kg		8260B	08/22/10	5
Bromobenzene	U	0.0015	0.0068	mg/kg		8260B	08/22/10	5
Bromodichloromethane	U	0.0017	0.0068	mg/kg		8260B	08/22/10	5
Bromoform	U	0.0016	0.0068	mg/kg		8260B	08/22/10	5
Bromomethane	U	0.0078	0.034	mg/kg		8260B	08/22/10	5
n-Butylbenzene	U	0.0017	0.0068	mg/kg		8260B	08/22/10	5
sec-Butylbenzene	U	0.0015	0.0068	mg/kg		8260B	08/22/10	5
tert-Butylbenzene	U	0.0014	0.0068	mg/kg		8260B	08/22/10	5
Carbon tetrachloride	U	0.0021	0.0068	mg/kg		8260B	08/22/10	5
Chlorobenzene	U	0.0017	0.0068	mg/kg		8260B	08/22/10	5
Chlorodibromomethane	U	0.0015	0.0068	mg/kg		8260B	08/22/10	5
Chloroethane	U	0.0098	0.034	mg/kg		8260B	08/22/10	5
2-Chloroethyl vinyl ether	U	0.091	0.34	mg/kg		8260B	08/22/10	5
Chloroform	U	0.0022	0.034	mg/kg		8260B	08/22/10	5
Chloromethane	U	0.0052	0.017	mg/kg		8260B	08/22/10	5
2-Chlorotoluene	U	0.0016	0.0068	mg/kg		8260B	08/22/10	5
4-Chlorotoluene	U	0.0015	0.0068	mg/kg		8260B	08/22/10	5
1,2-Dibromo-3-Chloropropane	U	0.0053	0.034	mg/kg		8260B	08/22/10	5
1,2-Dibromoethane	U	0.0015	0.0068	mg/kg		8260B	08/22/10	5
Dibromomethane	U	0.0023	0.0068	mg/kg		8260B	08/22/10	5
1,2-Dichlorobenzene	U	0.0016	0.0068	mg/kg		8260B	08/22/10	5
1,3-Dichlorobenzene	U	0.0014	0.0068	mg/kg		8260B	08/22/10	5
1,4-Dichlorobenzene	U	0.0018	0.0068	mg/kg		8260B	08/22/10	5
Dichlorodifluoromethane	U	0.0021	0.034	mg/kg		8260B	08/22/10	5
1,1-Dichloroethane	U	0.0021	0.0068	mg/kg		8260B	08/22/10	5
1,2-Dichloroethane	U	0.0019	0.0068	mg/kg		8260B	08/22/10	5
1,1-Dichloroethene	U	0.0026	0.0068	mg/kg		8260B	08/22/10	5
cis-1,2-Dichloroethene	U	0.0026	0.0068	mg/kg		8260B	08/22/10	5
trans-1,2-Dichloroethene	U	0.0021	0.0068	mg/kg		8260B	08/22/10	5
1,2-Dichloropropane	U	0.0030	0.0068	mg/kg		8260B	08/22/10	5
1,1-Dichloropropene	U	0.0017	0.0068	mg/kg		8260B	08/22/10	5
1,3-Dichloropropene	U	0.0019	0.0068	mg/kg		8260B	08/22/10	5
cis-1,3-Dichloropropene	U	0.0015	0.0068	mg/kg		8260B	08/22/10	5
trans-1,3-Dichloropropene	U	0.0020	0.0068	mg/kg		8260B	08/22/10	5
2,2-Dichloropropane	U	0.0018	0.0068	mg/kg		8260B	08/22/10	5
Di-isopropyl ether	U	0.0018	0.0068	mg/kg		8260B	08/22/10	5
Ethylbenzene	U	0.0016	0.0068	mg/kg		8260B	08/22/10	5
Hexachloro-1,3-butadiene	U	0.0017	0.0068	mg/kg		8260B	08/22/10	5

Results listed are dry weight basis.

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REPORT OF ANALYSIS

December 23, 2010

Allison Whitfield
 Gallet - A Terracon Company - B-Ham
 110 12th Street North
 Birmingham, AL 35203

ESC Sample # : L474957-03

Date Received : August 20, 2010
 Description : Aladdin Montclair

Site ID : BIRMINGHAM, AL

Sample ID : SB-2 2.5FT

Project # : E1107021

Collected By : Allison Whitfield
 Collection Date : 08/16/10 21:13

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Isopropylbenzene	U	0.0017	0.0068	mg/kg		8260B	08/22/10	5
p-Isopropyltoluene	U	0.0016	0.0068	mg/kg		8260B	08/22/10	5
2-Butanone (MEK)	U	0.022	0.068	mg/kg		8260B	08/22/10	5
Methylene Chloride	U	0.0024	0.034	mg/kg		8260B	08/22/10	5
4-Methyl-2-pentanone (MIBK)	U	0.011	0.068	mg/kg		8260B	08/22/10	5
Methyl tert-butyl ether	U	0.0018	0.0068	mg/kg		8260B	08/22/10	5
Naphthalene	U	0.0014	0.034	mg/kg		8260B	08/22/10	5
n-Propylbenzene	U	0.0016	0.0068	mg/kg		8260B	08/22/10	5
Styrene	U	0.0012	0.0068	mg/kg		8260B	08/22/10	5
1,1,1,2-Tetrachloroethane	U	0.0020	0.0068	mg/kg		8260B	08/22/10	5
1,1,2,2-Tetrachloroethane	U	0.0014	0.0068	mg/kg		8260B	08/22/10	5
1,1,2-Trichloro-1,2,2-trifluoro	U	0.0043	0.0068	mg/kg		8260B	08/22/10	5
Tetrachloroethene	U	0.0022	0.0068	mg/kg		8260B	08/22/10	5
Toluene	U	0.0017	0.034	mg/kg		8260B	08/22/10	5
1,2,3-Trichlorobenzene	U	0.0015	0.0068	mg/kg		8260B	08/22/10	5
1,2,4-Trichlorobenzene	U	0.0019	0.0068	mg/kg		8260B	08/22/10	5
1,1,1-Trichloroethane	U	0.0023	0.0068	mg/kg		8260B	08/22/10	5
1,1,2-Trichloroethane	U	0.0027	0.0068	mg/kg		8260B	08/22/10	5
Trichloroethene	U	0.0017	0.0068	mg/kg		8260B	08/22/10	5
Trichlorofluoromethane	U	0.0035	0.034	mg/kg		8260B	08/22/10	5
1,2,3-Trichloropropane	U	0.0034	0.0068	mg/kg		8260B	08/22/10	5
1,2,4-Trimethylbenzene	U	0.0017	0.0068	mg/kg		8260B	08/22/10	5
1,2,3-Trimethylbenzene	U	0.0016	0.0068	mg/kg		8260B	08/22/10	5
1,3,5-Trimethylbenzene	U	0.0015	0.0068	mg/kg		8260B	08/22/10	5
Vinyl chloride	U	0.0026	0.0068	mg/kg		8260B	08/22/10	5
Xylenes, Total	U	0.0023	0.020	mg/kg		8260B	08/22/10	5
Surrogate Recovery								
Toluene-d8	102.			% Rec.		8260B	08/22/10	5
Dibromofluoromethane	108.			% Rec.		8260B	08/22/10	5
4-Bromofluorobenzene	95.4			% Rec.		8260B	08/22/10	5

Results listed are dry weight basis.

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REPORT OF ANALYSIS

December 23, 2010

Allison Whitfield
 Gallet - A Terracon Company - B-Ham
 110 12th Street North
 Birmingham, AL 35203

Date Received : August 20, 2010
 Description : Aladdin Montclair
 Sample ID : SB-2 4-5FT
 Collected By : Allison Whitfield
 Collection Date : 08/16/10 21:44

ESC Sample # : L474957-04
 Site ID : BIRMINGHAM, AL
 Project # : E1107021

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Total Solids	72.3			%		2540G	08/26/10	1
Volatile Organics								
Acetone	U	0.052	0.34	mg/kg		8260B	08/22/10	5
Acrylonitrile	U	0.013	0.068	mg/kg		8260B	08/22/10	5
Benzene	U	0.0021	0.0068	mg/kg		8260B	08/22/10	5
Bromobenzene	U	0.0015	0.0068	mg/kg		8260B	08/22/10	5
Bromodichloromethane	U	0.0017	0.0068	mg/kg		8260B	08/22/10	5
Bromoform	U	0.0016	0.0068	mg/kg	J4	8260B	08/22/10	5
Bromomethane	U	0.0078	0.034	mg/kg		8260B	08/22/10	5
n-Butylbenzene	U	0.0017	0.0068	mg/kg		8260B	08/22/10	5
sec-Butylbenzene	U	0.0015	0.0068	mg/kg		8260B	08/22/10	5
tert-Butylbenzene	U	0.0014	0.0068	mg/kg		8260B	08/22/10	5
Carbon tetrachloride	U	0.0021	0.0068	mg/kg		8260B	08/22/10	5
Chlorobenzene	U	0.0017	0.0068	mg/kg		8260B	08/22/10	5
Chlorodibromomethane	U	0.0015	0.0068	mg/kg		8260B	08/22/10	5
Chloroethane	U	0.0098	0.034	mg/kg		8260B	08/22/10	5
2-Chloroethyl vinyl ether	U	0.091	0.34	mg/kg		8260B	08/22/10	5
Chloroform	U	0.0022	0.034	mg/kg		8260B	08/22/10	5
Chloromethane	U	0.0052	0.017	mg/kg		8260B	08/22/10	5
2-Chlorotoluene	U	0.0016	0.0068	mg/kg		8260B	08/22/10	5
4-Chlorotoluene	U	0.0015	0.0068	mg/kg		8260B	08/22/10	5
1,2-Dibromo-3-Chloropropane	U	0.0053	0.034	mg/kg	J4	8260B	08/22/10	5
1,2-Dibromoethane	U	0.0015	0.0068	mg/kg		8260B	08/22/10	5
Dibromomethane	U	0.0023	0.0068	mg/kg		8260B	08/22/10	5
1,2-Dichlorobenzene	U	0.0016	0.0068	mg/kg	J4	8260B	08/22/10	5
1,3-Dichlorobenzene	U	0.0014	0.0068	mg/kg		8260B	08/22/10	5
1,4-Dichlorobenzene	U	0.0018	0.0068	mg/kg	J4	8260B	08/22/10	5
Dichlorodifluoromethane	U	0.0021	0.034	mg/kg		8260B	08/22/10	5
1,1-Dichloroethane	U	0.0021	0.0068	mg/kg		8260B	08/22/10	5
1,2-Dichloroethane	U	0.0019	0.0068	mg/kg		8260B	08/22/10	5
1,1-Dichloroethene	U	0.0026	0.0068	mg/kg		8260B	08/22/10	5
cis-1,2-Dichloroethene	U	0.0021	0.0068	mg/kg		8260B	08/22/10	5
trans-1,2-Dichloroethene	U	0.0030	0.0068	mg/kg		8260B	08/22/10	5
1,2-Dichloropropane	U	0.0017	0.0068	mg/kg		8260B	08/22/10	5
1,1-Dichloropropene	U	0.0019	0.0068	mg/kg		8260B	08/22/10	5
1,3-Dichloropropane	U	0.0015	0.0068	mg/kg		8260B	08/22/10	5
cis-1,3-Dichloropropene	U	0.0020	0.0068	mg/kg		8260B	08/22/10	5
trans-1,3-Dichloropropene	U	0.0018	0.0068	mg/kg		8260B	08/22/10	5
2,2-Dichloropropane	U	0.0018	0.0068	mg/kg		8260B	08/22/10	5
Di-isopropyl ether	U	0.0018	0.0068	mg/kg		8260B	08/22/10	5
Ethylbenzene	U	0.0016	0.0068	mg/kg		8260B	08/22/10	5
Hexachloro-1,3-butadiene	U	0.0017	0.0068	mg/kg		8260B	08/22/10	5

Results listed are dry weight basis.

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REPORT OF ANALYSIS

December 23, 2010

Allison Whitfield
 Gallet - A Terracon Company - B-Ham
 110 12th Street North
 Birmingham, AL 35203

Date Received : August 20, 2010
 Description : Aladdin Montclair
 Sample ID : SB-2 4-5FT
 Collected By : Allison Whitfield
 Collection Date : 08/16/10 21:44

ESC Sample # : L474957-04

Site ID : BIRMINGHAM, AL

Project # : E1107021

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Isopropylbenzene	U	0.0017	0.0068	mg/kg		8260B	08/22/10	5
p-Isopropyltoluene	U	0.0016	0.0068	mg/kg		8260B	08/22/10	5
2-Butanone (MEK)	U	0.022	0.068	mg/kg		8260B	08/22/10	5
Methylene Chloride	U	0.0024	0.034	mg/kg		8260B	08/22/10	5
4-Methyl-2-pentanone (MIBK)	U	0.011	0.068	mg/kg		8260B	08/22/10	5
Methyl tert-butyl ether	U	0.0018	0.0068	mg/kg		8260B	08/22/10	5
Naphthalene	U	0.0014	0.034	mg/kg		8260B	08/22/10	5
n-Propylbenzene	U	0.0016	0.0068	mg/kg		8260B	08/22/10	5
Styrene	U	0.0012	0.0068	mg/kg		8260B	08/22/10	5
1,1,1,2-Tetrachloroethane	U	0.0020	0.0068	mg/kg	J4	8260B	08/22/10	5
1,1,2,2-Tetrachloroethane	U	0.0014	0.0068	mg/kg		8260B	08/22/10	5
1,1,2-Trichloro-1,2,2-trifluoro	U	0.0043	0.0068	mg/kg		8260B	08/22/10	5
Tetrachloroethene	U	0.0022	0.0068	mg/kg		8260B	08/22/10	5
Toluene	U	0.0017	0.034	mg/kg		8260B	08/22/10	5
1,2,3-Trichlorobenzene	U	0.0015	0.0068	mg/kg		8260B	08/22/10	5
1,2,4-Trichlorobenzene	U	0.0019	0.0068	mg/kg		8260B	08/22/10	5
1,1,1-Trichloroethane	U	0.0023	0.0068	mg/kg		8260B	08/22/10	5
1,1,2-Trichloroethane	U	0.0027	0.0068	mg/kg		8260B	08/22/10	5
Trichloroethene	U	0.0017	0.0068	mg/kg		8260B	08/22/10	5
Trichlorofluoromethane	U	0.0035	0.034	mg/kg		8260B	08/22/10	5
1,2,3-Trichloropropane	U	0.0034	0.0068	mg/kg		8260B	08/22/10	5
1,2,4-Trimethylbenzene	U	0.0017	0.0068	mg/kg		8260B	08/22/10	5
1,2,3-Trimethylbenzene	U	0.0016	0.0068	mg/kg		8260B	08/22/10	5
1,3,5-Trimethylbenzene	U	0.0015	0.0068	mg/kg		8260B	08/22/10	5
Vinyl chloride	U	0.0026	0.0068	mg/kg		8260B	08/22/10	5
Xylenes, Total	U	0.0023	0.020	mg/kg		8260B	08/22/10	5
Surrogate Recovery				% Rec.		8260B	08/22/10	5
Toluene-d8	98.7			% Rec.		8260B	08/22/10	5
Dibromofluoromethane	102.			% Rec.		8260B	08/22/10	5
4-Bromofluorobenzene	91.8			% Rec.		8260B	08/22/10	5

Results listed are dry weight basis.

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REPORT OF ANALYSIS

December 23, 2010

Allison Whitfield
 Gallet - A Terracon Company - B-Ham
 110 12th Street North
 Birmingham, AL 35203

Date Received : August 20, 2010
 Description : Aladdin Montclair
 Sample ID : SB-3 4-6FT
 Collected By : Allison Whitfield
 Collection Date : 08/16/10 19:05

ESC Sample # : L474957-05
 Site ID : BIRMINGHAM, AL
 Project # : E1107021

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Total Solids	84.3			%		2540G	08/26/10	1
Volatile Organics								
Acetone	U	0.052	0.30	mg/kg		8260B	08/23/10	5
Acrylonitrile	U	0.013	0.059	mg/kg		8260B	08/23/10	5
Benzene	U	0.0021	0.0059	mg/kg		8260B	08/23/10	5
Bromobenzene	U	0.0015	0.0059	mg/kg		8260B	08/23/10	5
Bromodichloromethane	U	0.0017	0.0059	mg/kg		8260B	08/23/10	5
Bromoform	U	0.0016	0.0059	mg/kg	J4	8260B	08/23/10	5
Bromomethane	U	0.0078	0.030	mg/kg		8260B	08/23/10	5
n-Butylbenzene	U	0.0017	0.0059	mg/kg		8260B	08/23/10	5
sec-Butylbenzene	U	0.0015	0.0059	mg/kg		8260B	08/23/10	5
tert-Butylbenzene	U	0.0014	0.0059	mg/kg		8260B	08/23/10	5
Carbon tetrachloride	U	0.0021	0.0059	mg/kg		8260B	08/23/10	5
Chlorobenzene	U	0.0017	0.0059	mg/kg		8260B	08/23/10	5
Chlorodibromomethane	U	0.0015	0.0059	mg/kg		8260B	08/23/10	5
Chloroethane	U	0.0098	0.030	mg/kg		8260B	08/23/10	5
2-Chloroethyl vinyl ether	U	0.091	0.30	mg/kg		8260B	08/23/10	5
Chloroform	U	0.0022	0.030	mg/kg		8260B	08/23/10	5
Chloromethane	U	0.0052	0.015	mg/kg		8260B	08/23/10	5
2-Chlorotoluene	U	0.0016	0.0059	mg/kg		8260B	08/23/10	5
4-Chlorotoluene	U	0.0015	0.0059	mg/kg		8260B	08/23/10	5
1,2-Dibromo-3-Chloropropane	U	0.0053	0.030	mg/kg	J4	8260B	08/23/10	5
1,2-Dibromoethane	U	0.0015	0.0059	mg/kg		8260B	08/23/10	5
Dibromomethane	U	0.0023	0.0059	mg/kg		8260B	08/23/10	5
1,2-Dichlorobenzene	U	0.0016	0.0059	mg/kg	J4	8260B	08/23/10	5
1,3-Dichlorobenzene	U	0.0014	0.0059	mg/kg		8260B	08/23/10	5
1,4-Dichlorobenzene	U	0.0018	0.0059	mg/kg	J4	8260B	08/23/10	5
Dichlorodifluoromethane	U	0.0021	0.030	mg/kg		8260B	08/23/10	5
1,1-Dichloroethane	U	0.0021	0.0059	mg/kg		8260B	08/23/10	5
1,2-Dichloroethane	U	0.0019	0.0059	mg/kg		8260B	08/23/10	5
1,1-Dichloroethene	U	0.0026	0.0059	mg/kg		8260B	08/23/10	5
cis-1,2-Dichloroethene	U	0.0026	0.0059	mg/kg		8260B	08/23/10	5
trans-1,2-Dichloroethene	U	0.0021	0.0059	mg/kg		8260B	08/23/10	5
1,2-Dichloropropane	U	0.0030	0.0059	mg/kg		8260B	08/23/10	5
1,1-Dichloropropene	U	0.0017	0.0059	mg/kg		8260B	08/23/10	5
1,3-Dichloropropene	U	0.0019	0.0059	mg/kg		8260B	08/23/10	5
cis-1,3-Dichloropropene	U	0.0015	0.0059	mg/kg		8260B	08/23/10	5
trans-1,3-Dichloropropene	U	0.0020	0.0059	mg/kg		8260B	08/23/10	5
2,2-Dichloropropane	U	0.0018	0.0059	mg/kg		8260B	08/23/10	5
Di-isopropyl ether	U	0.0018	0.0059	mg/kg		8260B	08/23/10	5
Ethylbenzene	U	0.0016	0.0059	mg/kg		8260B	08/23/10	5
Hexachloro-1,3-butadiene	U	0.0017	0.0059	mg/kg		8260B	08/23/10	5

Results listed are dry weight basis.

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

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 Est. 1970

REPORT OF ANALYSIS

December 23, 2010

Allison Whitfield
 Gallet - A Terracon Company - B-Ham
 110 12th Street North
 Birmingham, AL 35203

ESC Sample # : L474957-05

Date Received : August 20, 2010
 Description : Aladdin Montclair

Site ID : BIRMINGHAM, AL

Sample ID : SB-3 4-6FT

Project # : E1107021

Collected By : Allison Whitfield
 Collection Date : 08/16/10 19:05

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Isopropylbenzene	U	0.0017	0.0059	mg/kg		8260B	08/23/10	5
p-Isopropyltoluene	U	0.0016	0.0059	mg/kg		8260B	08/23/10	5
2-Butanone (MEK)	U	0.022	0.059	mg/kg		8260B	08/23/10	5
Methylene Chloride	U	0.0024	0.030	mg/kg		8260B	08/23/10	5
4-Methyl-2-pentanone (MIBK)	U	0.011	0.059	mg/kg		8260B	08/23/10	5
Methyl tert-butyl ether	U	0.0018	0.0059	mg/kg		8260B	08/23/10	5
Naphthalene	0.0026	0.0014	0.030	mg/kg	J	8260B	08/23/10	5
n-Propylbenzene	U	0.0016	0.0059	mg/kg		8260B	08/23/10	5
Styrene	U	0.0012	0.0059	mg/kg		8260B	08/23/10	5
1,1,1,2-Tetrachloroethane	U	0.0020	0.0059	mg/kg	J4	8260B	08/23/10	5
1,1,2,2-Tetrachloroethane	U	0.0014	0.0059	mg/kg		8260B	08/23/10	5
1,1,2-Trichloro-1,2,2-trifluoro	U	0.0043	0.0059	mg/kg		8260B	08/23/10	5
Tetrachloroethene	U	0.0022	0.0059	mg/kg		8260B	08/23/10	5
Toluene	U	0.0017	0.030	mg/kg		8260B	08/23/10	5
1,2,3-Trichlorobenzene	U	0.0015	0.0059	mg/kg		8260B	08/23/10	5
1,2,4-Trichlorobenzene	U	0.0019	0.0059	mg/kg		8260B	08/23/10	5
1,1,1-Trichloroethane	U	0.0023	0.0059	mg/kg		8260B	08/23/10	5
1,1,2-Trichloroethane	U	0.0027	0.0059	mg/kg		8260B	08/23/10	5
Trichloroethene	U	0.0017	0.0059	mg/kg		8260B	08/23/10	5
Trichlorofluoromethane	U	0.0035	0.030	mg/kg		8260B	08/23/10	5
1,2,3-Trichloropropane	U	0.0034	0.0059	mg/kg		8260B	08/23/10	5
1,2,4-Trimethylbenzene	U	0.0017	0.0059	mg/kg		8260B	08/23/10	5
1,2,3-Trimethylbenzene	U	0.0016	0.0059	mg/kg		8260B	08/23/10	5
1,3,5-Trimethylbenzene	U	0.0015	0.0059	mg/kg		8260B	08/23/10	5
Vinyl chloride	U	0.0026	0.0059	mg/kg		8260B	08/23/10	5
Xylenes, Total	U	0.0023	0.018	mg/kg		8260B	08/23/10	5
Surrogate Recovery				% Rec.		8260B	08/23/10	5
Toluene-d8	93.3			% Rec.		8260B	08/23/10	5
Dibromofluoromethane	91.2			% Rec.		8260B	08/23/10	5
4-Bromofluorobenzene	99.7			% Rec.		8260B	08/23/10	5

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REPORT OF ANALYSIS

December 23, 2010

Allison Whitfield
 Gallet - A Terracon Company - B-Ham
 110 12th Street North
 Birmingham, AL 35203

ESC Sample # : L474957-06

Date Received : August 20, 2010
 Description : Aladdin Montclair

Site ID : BIRMINGHAM, AL

Sample ID : SB-3 8-10FT

Project # : E1107021

Collected By : Allison Whitfield
 Collection Date : 08/16/10 19:10

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Total Solids	74.2			%		2540G	08/26/10	1
Volatile Organics								
Acetone	U	0.052	0.34	mg/kg		8260B	08/21/10	5
Acrylonitrile	U	0.013	0.067	mg/kg		8260B	08/21/10	5
Benzene	U	0.0021	0.0067	mg/kg		8260B	08/21/10	5
Bromobenzene	U	0.0015	0.0067	mg/kg		8260B	08/21/10	5
Bromodichloromethane	U	0.0017	0.0067	mg/kg		8260B	08/21/10	5
Bromoform	U	0.0016	0.0067	mg/kg		8260B	08/21/10	5
Bromomethane	U	0.0078	0.034	mg/kg		8260B	08/21/10	5
n-Butylbenzene	U	0.0017	0.0067	mg/kg		8260B	08/21/10	5
sec-Butylbenzene	U	0.0015	0.0067	mg/kg		8260B	08/21/10	5
tert-Butylbenzene	U	0.0014	0.0067	mg/kg		8260B	08/21/10	5
Carbon tetrachloride	U	0.0021	0.0067	mg/kg		8260B	08/21/10	5
Chlorobenzene	U	0.0017	0.0067	mg/kg		8260B	08/21/10	5
Chlorodibromomethane	U	0.0015	0.0067	mg/kg		8260B	08/21/10	5
Chloroethane	U	0.0098	0.034	mg/kg		8260B	08/21/10	5
2-Chloroethyl vinyl ether	U	0.091	0.34	mg/kg		8260B	08/21/10	5
Chloroform	U	0.0022	0.034	mg/kg		8260B	08/21/10	5
Chloromethane	U	0.0052	0.017	mg/kg		8260B	08/21/10	5
2-Chlorotoluene	U	0.0016	0.0067	mg/kg		8260B	08/21/10	5
4-Chlorotoluene	U	0.0015	0.0067	mg/kg		8260B	08/21/10	5
1,2-Dibromo-3-Chloropropane	U	0.0053	0.034	mg/kg		8260B	08/21/10	5
1,2-Dibromoethane	U	0.0015	0.0067	mg/kg		8260B	08/21/10	5
Dibromomethane	U	0.0023	0.0067	mg/kg		8260B	08/21/10	5
1,2-Dichlorobenzene	U	0.0016	0.0067	mg/kg		8260B	08/21/10	5
1,3-Dichlorobenzene	U	0.0014	0.0067	mg/kg		8260B	08/21/10	5
1,4-Dichlorobenzene	U	0.0018	0.0067	mg/kg		8260B	08/21/10	5
Dichlorodifluoromethane	U	0.0021	0.034	mg/kg		8260B	08/21/10	5
1,1-Dichloroethane	U	0.0021	0.0067	mg/kg		8260B	08/21/10	5
1,2-Dichloroethane	U	0.0019	0.0067	mg/kg		8260B	08/21/10	5
1,1-Dichloroethene	U	0.0026	0.0067	mg/kg		8260B	08/21/10	5
cis-1,2-Dichloroethene	U	0.0026	0.0067	mg/kg		8260B	08/21/10	5
trans-1,2-Dichloroethene	U	0.0021	0.0067	mg/kg		8260B	08/21/10	5
1,2-Dichloropropane	U	0.0030	0.0067	mg/kg		8260B	08/21/10	5
1,1-Dichloropropene	U	0.0017	0.0067	mg/kg		8260B	08/21/10	5
1,3-Dichloropropene	U	0.0019	0.0067	mg/kg		8260B	08/21/10	5
cis-1,3-Dichloropropene	U	0.0015	0.0067	mg/kg		8260B	08/21/10	5
trans-1,3-Dichloropropene	U	0.0020	0.0067	mg/kg		8260B	08/21/10	5
2,2-Dichloropropane	U	0.0018	0.0067	mg/kg		8260B	08/21/10	5
Di-isopropyl ether	U	0.0018	0.0067	mg/kg		8260B	08/21/10	5
Ethylbenzene	U	0.0016	0.0067	mg/kg		8260B	08/21/10	5
Hexachloro-1,3-butadiene	U	0.0017	0.0067	mg/kg		8260B	08/21/10	5

Results listed are dry weight basis.

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RDL = Reported Detection Limit = LOQ = PQL = EQL

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REPORT OF ANALYSIS

December 23, 2010

Allison Whitfield
 Gallet - A Terracon Company - B-Ham
 110 12th Street North
 Birmingham, AL 35203

ESC Sample # : L474557-06

Date Received : August 20, 2010
 Description : Aladdin Montclair

Site ID : BIRMINGHAM, AL

Sample ID : SB-3 8-10FT

Project # : E1107021

Collected By : Allison Whitfield
 Collection Date : 08/16/10 19:10

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Isopropylbenzene	U	0.0017	0.0067	mg/kg		8260B	08/21/10	5
p-Isopropyltoluene	U	0.0016	0.0067	mg/kg		8260B	08/21/10	5
2-Butanone (MEK)	U	0.022	0.067	mg/kg		8260B	08/21/10	5
Methylene Chloride	U	0.0024	0.034	mg/kg		8260B	08/21/10	5
4-Methyl-2-pentanone (MIBK)	U	0.011	0.067	mg/kg		8260B	08/21/10	5
Methyl tert-butyl ether	U	0.0018	0.0067	mg/kg		8260B	08/21/10	5
Naphthalene	U	0.0014	0.034	mg/kg		8260B	08/21/10	5
n-Propylbenzene	U	0.0016	0.0067	mg/kg		8260B	08/21/10	5
Styrene	U	0.0012	0.0067	mg/kg		8260B	08/21/10	5
1,1,1,2-Tetrachloroethane	U	0.0020	0.0067	mg/kg		8260B	08/21/10	5
1,1,2,2-Tetrachloroethane	U	0.0014	0.0067	mg/kg		8260B	08/21/10	5
1,1,2-Trichloro-1,2,2-trifluoro	U	0.0043	0.0067	mg/kg		8260B	08/21/10	5
Tetrachloroethene	U	0.0022	0.0067	mg/kg		8260B	08/21/10	5
Toluene	U	0.0017	0.034	mg/kg		8260B	08/21/10	5
1,2,3-Trichlorobenzene	U	0.0015	0.0067	mg/kg		8260B	08/21/10	5
1,2,4-Trichlorobenzene	U	0.0019	0.0067	mg/kg		8260B	08/21/10	5
1,1,1-Trichloroethane	U	0.0023	0.0067	mg/kg		8260B	08/21/10	5
1,1,2-Trichloroethane	U	0.0027	0.0067	mg/kg		8260B	08/21/10	5
Trichloroethene	U	0.0017	0.0067	mg/kg		8260B	08/21/10	5
Trichlorofluoromethane	U	0.0035	0.034	mg/kg		8260B	08/21/10	5
1,2,3-Trichloropropane	U	0.0034	0.0067	mg/kg		8260B	08/21/10	5
1,2,4-Trimethylbenzene	U	0.0017	0.0067	mg/kg		8260B	08/21/10	5
1,2,3-Trimethylbenzene	U	0.0016	0.0067	mg/kg		8260B	08/21/10	5
1,3,5-Trimethylbenzene	U	0.0015	0.0067	mg/kg		8260B	08/21/10	5
Vinyl chloride	U	0.0026	0.0067	mg/kg		8260B	08/21/10	5
Xylenes, Total	U	0.0023	0.020	mg/kg		8260B	08/21/10	5
Surrogate Recovery								
Toluene-d8	97.6			% Rec.		8260B	08/21/10	5
Dibromofluoromethane	100.			% Rec.		8260B	08/21/10	5
4-Bromofluorobenzene	92.1			% Rec.		8260B	08/21/10	5

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REPORT OF ANALYSIS

December 23, 2010

Allison Whitfield
Gallet - A Terracon Company - B-Ham
110 12th Street North
Birmingham, AL 35203

ESC Sample # : L474957-07

Date Received : August 20, 2010
Description : Aladdin Montclair

Site ID : BIRMINGHAM, AL

Sample ID : SB-4 G-8FT

Project # : E1107021

Collected By : Allison Whitfield
Collection Date : 08/17/10 19:25

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Total Solids	81.9			%		2540G	08/26/10	1
Volatile Organics								
Acetone	U	0.052	0.30	mg/kg		8260B	08/21/10	5
Acrylonitrile	U	0.013	0.061	mg/kg		8260B	08/21/10	5
Benzene	U	0.0021	0.0061	mg/kg		8260B	08/21/10	5
Bromobenzene	U	0.0015	0.0061	mg/kg		8260B	08/21/10	5
Bromodichloromethane	U	0.0017	0.0061	mg/kg		8260B	08/21/10	5
Bromoform	U	0.0016	0.0061	mg/kg		8260B	08/21/10	5
Bromomethane	U	0.0078	0.030	mg/kg		8260B	08/21/10	5
n-Butylbenzene	U	0.0017	0.0061	mg/kg		8260B	08/21/10	5
sec-Butylbenzene	U	0.0015	0.0061	mg/kg		8260B	08/21/10	5
tert-Butylbenzene	U	0.0014	0.0061	mg/kg		8260B	08/21/10	5
Carbon tetrachloride	U	0.0021	0.0061	mg/kg		8260B	08/21/10	5
Chlorobenzene	U	0.0017	0.0061	mg/kg		8260B	08/21/10	5
Chlorodibromomethane	U	0.0015	0.0061	mg/kg		8260B	08/21/10	5
Chloroethane	U	0.0098	0.030	mg/kg		8260B	08/21/10	5
2-Chloroethyl vinyl ether	U	0.091	0.30	mg/kg		8260B	08/21/10	5
Chloroform	U	0.0022	0.030	mg/kg		8260B	08/21/10	5
Chloromethane	U	0.0052	0.015	mg/kg		8260B	08/21/10	5
2-Chlorotoluene	U	0.0016	0.0061	mg/kg		8260B	08/21/10	5
4-Chlorotoluene	U	0.0015	0.0061	mg/kg		8260B	08/21/10	5
1,2-Dibromo-3-Chloropropane	U	0.0053	0.030	mg/kg		8260B	08/21/10	5
1,2-Dibromoethane	U	0.0015	0.0061	mg/kg		8260B	08/21/10	5
Dibromomethane	U	0.0023	0.0061	mg/kg		8260B	08/21/10	5
1,2-Dichlorobenzene	U	0.0016	0.0061	mg/kg		8260B	08/21/10	5
1,3-Dichlorobenzene	U	0.0014	0.0061	mg/kg		8260B	08/21/10	5
1,4-Dichlorobenzene	U	0.0018	0.0061	mg/kg		8260B	08/21/10	5
Dichlorodifluoromethane	U	0.0021	0.030	mg/kg		8260B	08/21/10	5
1,1-Dichloroethane	U	0.0021	0.0061	mg/kg		8260B	08/21/10	5
1,2-Dichloroethane	U	0.0019	0.0061	mg/kg		8260B	08/21/10	5
1,1-Dichloroethene	U	0.0026	0.0061	mg/kg		8260B	08/21/10	5
cis-1,2-Dichloroethene	U	0.0026	0.0061	mg/kg		8260B	08/21/10	5
trans-1,2-Dichloroethene	U	0.0021	0.0061	mg/kg		8260B	08/21/10	5
1,2-Dichloropropane	U	0.0030	0.0061	mg/kg		8260B	08/21/10	5
1,1-Dichloropropene	U	0.0017	0.0061	mg/kg		8260B	08/21/10	5
1,3-Dichloropropane	U	0.0019	0.0061	mg/kg		8260B	08/21/10	5
cis-1,3-Dichloropropene	U	0.0015	0.0061	mg/kg		8260B	08/21/10	5
trans-1,3-Dichloropropene	U	0.0020	0.0061	mg/kg		8260B	08/21/10	5
2,2-Dichloropropane	U	0.0018	0.0061	mg/kg		8260B	08/21/10	5
Di-isopropyl ether	U	0.0018	0.0061	mg/kg		8260B	08/21/10	5
Ethylbenzene	U	0.0016	0.0061	mg/kg		8260B	08/21/10	5
Hexachloro-1,3-butadiene	U	0.0017	0.0061	mg/kg		8260B	08/21/10	5

Results listed are dry weight basis.

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RDL = Reported Detection Limit = LOQ = PQL = EQL

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REPORT OF ANALYSIS

December 23, 2010

Allison Whitfield
 Gallet - A Terracon Company - B-Ham
 110 12th Street North
 Birmingham, AL 35203

Date Received : August 20, 2010
 Description : Aladdin Montclair
 Sample ID : SB-4 6-8FT
 Collected By : Allison Whitfield
 Collection Date : 08/17/10 19:25

ESC Sample # : L474957-07
 Site ID : BIRMINGHAM, AL
 Project # : E1107021

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Isopropylbenzene	U	0.0017	0.0061	mg/kg		8260B	08/21/10	5
p-Isopropyltoluene	U	0.0016	0.0061	mg/kg		8260B	08/21/10	5
2-Butanone (MEK)	U	0.022	0.061	mg/kg		8260B	08/21/10	5
Methylene Chloride	U	0.0024	0.030	mg/kg		8260B	08/21/10	5
4-Methyl-2-pentanone (MIBK)	U	0.011	0.061	mg/kg		8260B	08/21/10	5
Methyl tert-butyl ether	U	0.0018	0.0061	mg/kg		8260B	08/21/10	5
Naphthalene	U	0.0014	0.030	mg/kg		8260B	08/21/10	5
n-Propylbenzene	U	0.0016	0.0061	mg/kg		8260B	08/21/10	5
Styrene	U	0.0012	0.0061	mg/kg		8260B	08/21/10	5
1,1,1,2-Tetrachloroethane	U	0.0020	0.0061	mg/kg		8260B	08/21/10	5
1,1,2,2-Tetrachloroethane	U	0.0014	0.0061	mg/kg		8260B	08/21/10	5
1,1,2-Trichloro-1,2,2-trifluoro	U	0.0043	0.0061	mg/kg		8260B	08/21/10	5
Tetrachloroethene	U	0.0022	0.0061	mg/kg		8260B	08/21/10	5
Toluene	U	0.0017	0.030	mg/kg		8260B	08/21/10	5
1,2,3-Trichlorobenzene	U	0.0015	0.0061	mg/kg		8260B	08/21/10	5
1,2,4-Trichlorobenzene	U	0.0019	0.0061	mg/kg		8260B	08/21/10	5
1,1,1-Trichloroethane	U	0.0023	0.0061	mg/kg		8260B	08/21/10	5
1,1,2-Trichloroethane	U	0.0027	0.0061	mg/kg		8260B	08/21/10	5
Trichloroethene	U	0.0017	0.0061	mg/kg		8260B	08/21/10	5
Trichlorofluoromethane	U	0.0035	0.030	mg/kg		8260B	08/21/10	5
1,2,3-Trichloropropane	U	0.0034	0.0061	mg/kg		8260B	08/21/10	5
1,2,4-Trimethylbenzene	U	0.0017	0.0061	mg/kg		8260B	08/21/10	5
1,2,3-Trimethylbenzene	U	0.0016	0.0061	mg/kg		8260B	08/21/10	5
1,3,5-Trimethylbenzene	U	0.0015	0.0061	mg/kg		8260B	08/21/10	5
Vinyl chloride	U	0.0026	0.0061	mg/kg		8260B	08/21/10	5
Xylenes, Total	U	0.0023	0.018	mg/kg		8260B	08/21/10	5
Surrogate Recovery								
Toluene-d8	99.1			% Rec.		8260B	08/21/10	5
Dibromofluoromethane	103.			% Rec.		8260B	08/21/10	5
4-Bromofluorobenzene	92.6			% Rec.		8260B	08/21/10	5

Results listed are dry weight basis.
 U = ND (Not Detected)
 MDL = Minimum Detection Limit = LOD
 RDL = Reported Detection Limit = LOQ = PQL = EQL
 Note:

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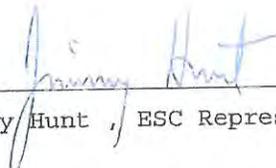
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Est. 1970

Allison Whitfield
Gallet - A Terracon Company - B-Ham AL.
110 12th Street North
Birmingham, AL 35203

Report Summary
Thursday September 09, 2010
Report Number: L477368
Samples Received: 09/04/10
Client Project: E1107021
Description: Aladdin Cleaners Montclair

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:


Jimmy Hunt, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140
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REPORT OF ANALYSIS

September 09, 2010

Allison Whitfield
Gallet - A Terracon Company - B-Ham
110 12th Street North
Birmingham, AL 35203

ESC Sample # : L477368-01

Date Received : September 04, 2010
Description : Aladdin Cleaners Montclair

Site ID : BIRMINGHAM, AL

Sample ID : MW-1

Project # : E1107021

Collected By : John Hughes
Collection Date : 09/03/10 12:06

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	0.050	mg/l	8260B	09/05/10	1
Acrolein	BDL	0.050	mg/l	8260B	09/05/10	1
Acrylonitrile	BDL	0.010	mg/l	8260B	09/05/10	1
Benzene	BDL	0.0010	mg/l	8260B	09/05/10	1
Bromobenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
Bromodichloromethane	BDL	0.0010	mg/l	8260B	09/05/10	1
Bromoform	BDL	0.0010	mg/l	8260B	09/05/10	1
Bromomethane	BDL	0.0050	mg/l	8260B	09/05/10	1
n-Butylbenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
sec-Butylbenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
tert-Butylbenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
Carbon tetrachloride	BDL	0.0010	mg/l	8260B	09/05/10	1
Chlorobenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
Chlorodibromomethane	BDL	0.0010	mg/l	8260B	09/05/10	1
Chloroethane	BDL	0.0050	mg/l	8260B	09/05/10	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	8260B	09/05/10	1
Chloroform	BDL	0.0050	mg/l	8260B	09/05/10	1
Chloromethane	BDL	0.0025	mg/l	8260B	09/05/10	1
2-Chlorotoluene	BDL	0.0010	mg/l	8260B	09/05/10	1
4-Chlorotoluene	BDL	0.0010	mg/l	8260B	09/05/10	1
1,2-Dibromo-3-Chloropropane	BDL	0.0050	mg/l	8260B	09/05/10	1
1,2-Dibromoethane	BDL	0.0010	mg/l	8260B	09/05/10	1
Dibromomethane	BDL	0.0010	mg/l	8260B	09/05/10	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
Dichlorodifluoromethane	BDL	0.0050	mg/l	8260B	09/05/10	1
1,1-Dichloroethane	BDL	0.0010	mg/l	8260B	09/05/10	1
1,2-Dichloroethane	BDL	0.0010	mg/l	8260B	09/05/10	1
1,1-Dichloroethene	BDL	0.0010	mg/l	8260B	09/05/10	1
cis-1,2-Dichloroethene	0.0099	0.0010	mg/l	8260B	09/05/10	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	09/05/10	1
1,2-Dichloropropane	BDL	0.0010	mg/l	8260B	09/05/10	1
1,1-Dichloropropene	BDL	0.0010	mg/l	8260B	09/05/10	1
1,3-Dichloropropane	BDL	0.0010	mg/l	8260B	09/05/10	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	09/05/10	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	09/05/10	1
2,2-Dichloropropane	BDL	0.0010	mg/l	8260B	09/05/10	1
Di-isopropyl ether	BDL	0.0010	mg/l	8260B	09/05/10	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
Hexachloro-1,3-butadiene	BDL	0.0010	mg/l	8260B	09/05/10	1
Isopropylbenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
p-Isopropyltoluene	BDL	0.0010	mg/l	8260B	09/05/10	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit (PQL)



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REPORT OF ANALYSIS

September 09, 2010

Allison Whitfield
 Gallet - A Terracon Company - B-Ham
 110 12th Street North
 Birmingham, AL 35203

ESC Sample # : L477368-01

Date Received : September 04, 2010
 Description : Aladdin Cleaners Montclair

Site ID : BIRMINGHAM, AL

Sample ID : MW-1

Project # : E1107021

Collected By : John Hughes
 Collection Date : 09/03/10 12:06

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2-Butanone (MEK)	BDL	0.010	mg/l	8260B	09/05/10	1
Methylene Chloride	BDL	0.0050	mg/l	8260B	09/05/10	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/l	8260B	09/05/10	1
Methyl tert-butyl ether	0.0029	0.0010	mg/l	8260B	09/05/10	1
Naphthalene	BDL	0.0050	mg/l	8260B	09/05/10	1
n-Propylbenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
Styrene	BDL	0.0010	mg/l	8260B	09/05/10	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	09/05/10	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	09/05/10	1
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.0010	mg/l	8260B	09/05/10	1
Tetrachloroethene	0.013	0.0010	mg/l	8260B	09/05/10	1
Toluene	BDL	0.0050	mg/l	8260B	09/05/10	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
1,1,1-Trichloroethane	BDL	0.0010	mg/l	8260B	09/05/10	1
1,1,2-Trichloroethane	BDL	0.0010	mg/l	8260B	09/05/10	1
Trichloroethene	0.0036	0.0010	mg/l	8260B	09/05/10	1
Trichlorofluoromethane	BDL	0.0050	mg/l	8260B	09/05/10	1
1,2,3-Trichloropropane	BDL	0.0010	mg/l	8260B	09/05/10	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
Vinyl chloride	BDL	0.0010	mg/l	8260B	09/05/10	1
Xylenes, Total	BDL	0.0030	mg/l	8260B	09/05/10	1
Surrogate Recovery						
Toluene-d8	98.3		% Rec.	8260B	09/05/10	1
Dibromofluoromethane	128.		% Rec.	8260B	09/05/10	1
4-Bromofluorobenzene	102.		% Rec.	8260B	09/05/10	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

The reported analytical results relate only to the sample submitted.

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REPORT OF ANALYSIS

September 09, 2010

Allison Whitfield
 Gallet - A Terracon Company - B-Ham
 110 12th Street North
 Birmingham, AL 35203

ESC Sample # : L477368-02

Date Received : September 04, 2010
 Description : Aladdin Cleaners Montclair

Site ID : BIRMINGHAM, AL

Sample ID : MW-2

Project # : E1107021

Collected By : John Hughes
 Collection Date : 09/03/10 11:40

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	0.050	mg/l	8260B	09/05/10	1
Acrolein	BDL	0.050	mg/l	8260B	09/05/10	1
Acrylonitrile	BDL	0.010	mg/l	8260B	09/05/10	1
Benzene	BDL	0.0010	mg/l	8260B	09/05/10	1
Bromobenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
Bromodichloromethane	BDL	0.0010	mg/l	8260B	09/05/10	1
Bromoform	BDL	0.0010	mg/l	8260B	09/05/10	1
Bromomethane	BDL	0.0050	mg/l	8260B	09/05/10	1
n-Butylbenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
sec-Butylbenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
tert-Butylbenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
Carbon tetrachloride	BDL	0.0010	mg/l	8260B	09/05/10	1
Chlorobenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
Chlorodibromomethane	BDL	0.0010	mg/l	8260B	09/05/10	1
Chloroethane	BDL	0.0050	mg/l	8260B	09/05/10	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	8260B	09/05/10	1
Chloroform	BDL	0.0050	mg/l	8260B	09/05/10	1
Chloromethane	BDL	0.0025	mg/l	8260B	09/05/10	1
2-Chlorotoluene	BDL	0.0010	mg/l	8260B	09/05/10	1
4-Chlorotoluene	BDL	0.0010	mg/l	8260B	09/05/10	1
1,2-Dibromo-3-Chloropropane	BDL	0.0050	mg/l	8260B	09/05/10	1
1,2-Dibromoethane	BDL	0.0010	mg/l	8260B	09/05/10	1
Dibromomethane	BDL	0.0010	mg/l	8260B	09/05/10	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
Dichlorodifluoromethane	BDL	0.0050	mg/l	8260B	09/05/10	1
1,1-Dichloroethane	BDL	0.0010	mg/l	8260B	09/05/10	1
1,2-Dichloroethane	BDL	0.0010	mg/l	8260B	09/05/10	1
1,1-Dichloroethene	BDL	0.0010	mg/l	8260B	09/05/10	1
cis-1,2-Dichloroethene	0.0013	0.0010	mg/l	8260B	09/05/10	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	09/05/10	1
1,2-Dichloropropane	BDL	0.0010	mg/l	8260B	09/05/10	1
1,1-Dichloropropene	BDL	0.0010	mg/l	8260B	09/05/10	1
1,3-Dichloropropane	BDL	0.0010	mg/l	8260B	09/05/10	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	09/05/10	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	09/05/10	1
2,2-Dichloropropane	BDL	0.0010	mg/l	8260B	09/05/10	1
Di-isopropyl ether	BDL	0.0010	mg/l	8260B	09/05/10	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
Hexachloro-1,3-butadiene	BDL	0.0010	mg/l	8260B	09/05/10	1
Isopropylbenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
p-Isopropyltoluene	BDL	0.0010	mg/l	8260B	09/05/10	1

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit (PQL)



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REPORT OF ANALYSIS

September 09, 2010

Allison Whitfield
 Gallet - A Terracon Company - B-Ham
 110 12th Street North
 Birmingham, AL 35203

Date Received : September 04, 2010
 Description : Aladdin Cleaners Montclair
 Sample ID : MW-2
 Collected By : John Hughes
 Collection Date : 09/03/10 11:40

ESC Sample # : L477368-02
 Site ID : BIRMINGHAM, AL
 Project # : E1107021

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2-Butanone (MEK)	BDL	0.010	mg/l	8260B	09/05/10	1
Methylene Chloride	BDL	0.0050	mg/l	8260B	09/05/10	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/l	8260B	09/05/10	1
Methyl tert-butyl ether	0.0011	0.0010	mg/l	8260B	09/05/10	1
Naphthalene	BDL	0.0050	mg/l	8260B	09/05/10	1
n-Propylbenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
Styrene	BDL	0.0010	mg/l	8260B	09/05/10	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	09/05/10	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	09/05/10	1
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.0010	mg/l	8260B	09/05/10	1
Tetrachloroethene	BDL	0.0010	mg/l	8260B	09/05/10	1
Toluene	BDL	0.0050	mg/l	8260B	09/05/10	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
1,1,1-Trichloroethane	BDL	0.0010	mg/l	8260B	09/05/10	1
1,1,2-Trichloroethane	BDL	0.0010	mg/l	8260B	09/05/10	1
Trichloroethene	BDL	0.0010	mg/l	8260B	09/05/10	1
Trichlorofluoromethane	BDL	0.0050	mg/l	8260B	09/05/10	1
1,2,3-Trichloropropane	BDL	0.0010	mg/l	8260B	09/05/10	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
1,2,3-Trimethylbenzene	0.0013	0.0010	mg/l	8260B	09/05/10	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
Vinyl chloride	BDL	0.0010	mg/l	8260B	09/05/10	1
Xylenes, Total	0.0062	0.0030	mg/l	8260B	09/05/10	1
Surrogate Recovery						
Toluene-d8	99.9		% Rec.	8260B	09/05/10	1
Dibromofluoromethane	129.		% Rec.	8260B	09/05/10	1
4-Bromofluorobenzene	98.1		% Rec.	8260B	09/05/10	1

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit (PQL)

Note:
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REPORT OF ANALYSIS

September 09, 2010

Allison Whitfield
 Gallet - A Terracon Company - B-Ham
 110 12th Street North
 Birmingham, AL 35203

ESC Sample # : L477368-03

Date Received : September 04, 2010
 Description : Aladdin Cleaners Montclair

Site ID : BIRMINGHAM, AL

Sample ID : MW-3

Project # : E1107021

Collected By : John Hughes
 Collection Date : 09/03/10 11:50

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	0.050	mg/l	8260B	09/05/10	1
Acrolein	BDL	0.050	mg/l	8260B	09/05/10	1
Acrylonitrile	BDL	0.010	mg/l	8260B	09/05/10	1
Benzene	BDL	0.0010	mg/l	8260B	09/05/10	1
Bromobenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
Bromodichloromethane	BDL	0.0010	mg/l	8260B	09/05/10	1
Bromoform	BDL	0.0010	mg/l	8260B	09/05/10	1
Bromomethane	BDL	0.0050	mg/l	8260B	09/05/10	1
n-Butylbenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
sec-Butylbenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
tert-Butylbenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
Carbon tetrachloride	BDL	0.0010	mg/l	8260B	09/05/10	1
Chlorobenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
Chlorodibromomethane	BDL	0.0010	mg/l	8260B	09/05/10	1
Chloroethane	BDL	0.0050	mg/l	8260B	09/05/10	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	8260B	09/05/10	1
Chloroform	BDL	0.0050	mg/l	8260B	09/05/10	1
Chloromethane	BDL	0.0025	mg/l	8260B	09/05/10	1
2-Chlorotoluene	BDL	0.0010	mg/l	8260B	09/05/10	1
4-Chlorotoluene	BDL	0.0010	mg/l	8260B	09/05/10	1
1,2-Dibromo-3-Chloropropane	BDL	0.0050	mg/l	8260B	09/05/10	1
1,2-Dibromoethane	BDL	0.0010	mg/l	8260B	09/05/10	1
Dibromomethane	BDL	0.0010	mg/l	8260B	09/05/10	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
Dichlorodifluoromethane	BDL	0.0050	mg/l	8260B	09/05/10	1
1,1-Dichloroethane	BDL	0.0010	mg/l	8260B	09/05/10	1
1,2-Dichloroethane	BDL	0.0010	mg/l	8260B	09/05/10	1
1,1-Dichloroethene	BDL	0.0010	mg/l	8260B	09/05/10	1
cis-1,2-Dichloroethene	0.0029	0.0010	mg/l	8260B	09/05/10	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	09/05/10	1
1,2-Dichloropropane	BDL	0.0010	mg/l	8260B	09/05/10	1
1,1-Dichloropropene	BDL	0.0010	mg/l	8260B	09/05/10	1
1,3-Dichloropropane	BDL	0.0010	mg/l	8260B	09/05/10	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	09/05/10	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	09/05/10	1
2,2-Dichloropropane	BDL	0.0010	mg/l	8260B	09/05/10	1
Di-isopropyl ether	BDL	0.0010	mg/l	8260B	09/05/10	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
Hexachloro-1,3-butadiene	BDL	0.0010	mg/l	8260B	09/05/10	1
Isopropylbenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
p-Isopropyltoluene	BDL	0.0010	mg/l	8260B	09/05/10	1

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit (PQL)



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REPORT OF ANALYSIS

September 09, 2010

Allison Whitfield
Gallet - A Terracon Company - B-Ham
110 12th Street North
Birmingham, AL 35203

ESC Sample # : L477368-03

Date Received : September 04, 2010
Description : Aladdin Cleaners Montclair

Site ID : BIRMINGHAM, AL

Sample ID : MW-3

Project # : B1107021

Collected By : John Hughes
Collection Date : 09/03/10 11:50

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2-Butanone (MEK)	BDL	0.010	mg/l	8260B	09/05/10	1
Methylene Chloride	BDL	0.0050	mg/l	8260B	09/05/10	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/l	8260B	09/05/10	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	09/05/10	1
Naphthalene	BDL	0.0050	mg/l	8260B	09/05/10	1
n-Propylbenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
Styrene	BDL	0.0010	mg/l	8260B	09/05/10	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	09/05/10	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	09/05/10	1
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.0010	mg/l	8260B	09/05/10	1
Tetrachloroethene	0.0028	0.0010	mg/l	8260B	09/05/10	1
Toluene	BDL	0.0050	mg/l	8260B	09/05/10	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
1,1,1-Trichloroethane	BDL	0.0010	mg/l	8260B	09/05/10	1
1,1,2-Trichloroethane	BDL	0.0010	mg/l	8260B	09/05/10	1
Trichloroethene	BDL	0.0010	mg/l	8260B	09/05/10	1
Trichlorofluoromethane	BDL	0.0050	mg/l	8260B	09/05/10	1
1,2,3-Trichloropropane	BDL	0.0010	mg/l	8260B	09/05/10	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
Vinyl chloride	BDL	0.0010	mg/l	8260B	09/05/10	1
Xylenes, Total	BDL	0.0030	mg/l	8260B	09/05/10	1
Surrogate Recovery						
Toluene-d8	101.		% Rec.	8260B	09/05/10	1
Dibromofluoromethane	129.		% Rec.	8260B	09/05/10	1
4-Bromofluorobenzene	100.		% Rec.	8260B	09/05/10	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit (PQL)
Note:

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REPORT OF ANALYSIS

September 09, 2010

Allison Whitfield
 Gallet - A Terracon Company - B-Ham
 110 12th Street North
 Birmingham, AL 35203

ESC Sample # : L477358-04

Date Received : September 04, 2010
 Description : Aladdin Cleaners Montclair

Site ID : BIRMINGHAM, AL

Sample ID : MW-4

Project # : E1107021

Collected By : John Hughes
 Collection Date : 09/03/10 12:10

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	0.050	mg/l	8260B	09/05/10	1
Acrolein	BDL	0.050	mg/l	8260B	09/05/10	1
Acrylonitrile	BDL	0.010	mg/l	8260B	09/05/10	1
Benzene	BDL	0.0010	mg/l	8260B	09/05/10	1
Bromobenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
Bromodichloromethane	BDL	0.0010	mg/l	8260B	09/05/10	1
Bromoform	BDL	0.0010	mg/l	8260B	09/05/10	1
Bromomethane	BDL	0.0050	mg/l	8260B	09/05/10	1
n-Butylbenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
sec-Butylbenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
tert-Butylbenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
Carbon tetrachloride	BDL	0.0010	mg/l	8260B	09/05/10	1
Chlorobenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
Chlorodibromomethane	BDL	0.0010	mg/l	8260B	09/05/10	1
Chloroethane	BDL	0.0050	mg/l	8260B	09/05/10	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	8260B	09/05/10	1
Chloroform	BDL	0.0050	mg/l	8260B	09/05/10	1
Chloromethane	BDL	0.0025	mg/l	8260B	09/05/10	1
2-Chlorotoluene	BDL	0.0010	mg/l	8260B	09/05/10	1
4-Chlorotoluene	BDL	0.0010	mg/l	8260B	09/05/10	1
1,2-Dibromo-3-Chloropropane	BDL	0.0050	mg/l	8260B	09/05/10	1
1,2-Dibromoethane	BDL	0.0010	mg/l	8260B	09/05/10	1
Dibromomethane	BDL	0.0010	mg/l	8260B	09/05/10	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
Dichlorodifluoromethane	BDL	0.0050	mg/l	8260B	09/05/10	1
1,1-Dichloroethane	BDL	0.0010	mg/l	8260B	09/05/10	1
1,2-Dichloroethane	BDL	0.0010	mg/l	8260B	09/05/10	1
1,1-Dichloroethene	BDL	0.0010	mg/l	8260B	09/05/10	1
cis-1,2-Dichloroethene	0.21	0.010	mg/l	8260B	09/07/10	10
trans-1,2-Dichloroethene	0.0013	0.0010	mg/l	8260B	09/05/10	1
1,2-Dichloropropane	BDL	0.0010	mg/l	8260B	09/05/10	1
1,1-Dichloropropene	BDL	0.0010	mg/l	8260B	09/05/10	1
1,3-Dichloropropane	BDL	0.0010	mg/l	8260B	09/05/10	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	09/05/10	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	09/05/10	1
2,2-Dichloropropane	BDL	0.0010	mg/l	8260B	09/05/10	1
Di-isopropyl ether	BDL	0.0010	mg/l	8260B	09/05/10	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
Hexachloro-1,3-butadiene	BDL	0.0010	mg/l	8260B	09/05/10	1
Isopropylbenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
p-Isopropyltoluene	BDL	0.0010	mg/l	8260B	09/05/10	1

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit (POL)



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REPORT OF ANALYSIS

September 09, 2010

Allison Whitfield
Gallet - A Terracon Company - B-Ham
110 12th Street North
Birmingham, AL 35203

Date Received : September 04, 2010
Description : Aladdin Cleaners Montclair
Sample ID : MW-4
Collected By : John Hughes
Collection Date : 09/03/10 12:10

ESC Sample # : 1477368-04
Site ID : BIRMINGHAM, AL
Project # : E1107021

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2-Butanone (MEK)	BDL	0.010	mg/l	8260B	09/05/10	1
Methylene Chloride	BDL	0.0050	mg/l	8260B	09/05/10	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/l	8260B	09/05/10	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	09/05/10	1
Naphthalene	BDL	0.0050	mg/l	8260B	09/05/10	1
n-Propylbenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
Styrene	BDL	0.0010	mg/l	8260B	09/05/10	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	09/05/10	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	09/05/10	1
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.0010	mg/l	8260B	09/05/10	1
Tetrachloroethene	0.036	0.0010	mg/l	8260B	09/05/10	1
Toluene	BDL	0.0050	mg/l	8260B	09/05/10	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
1,1,1-Trichloroethane	BDL	0.0010	mg/l	8260B	09/05/10	1
1,1,2-Trichloroethane	BDL	0.0010	mg/l	8260B	09/05/10	1
Trichloroethene	0.026	0.0010	mg/l	8260B	09/05/10	1
Trichlorofluoromethane	BDL	0.0050	mg/l	8260B	09/05/10	1
1,2,3-Trichloropropane	BDL	0.0010	mg/l	8260B	09/05/10	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
Vinyl chloride	0.031	0.0010	mg/l	8260B	09/05/10	1
Xylenes, Total	BDL	0.0030	mg/l	8260B	09/05/10	1
Surrogate Recovery						
Toluene-d8	102.		% Rec.	8260B	09/05/10	1
Dibromofluoromethane	124.		% Rec.	8260B	09/05/10	1
4-Bromofluorobenzene	102.		% Rec.	8260B	09/05/10	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

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REPORT OF ANALYSIS

September 09, 2010

Allison Whitfield
Gallet - A Terracon Company - B-Ham
110 12th Street North
Birmingham, AL 35203

ESC Sample # : L477368-05

Date Received : September 04, 2010
Description : Aladdin Cleaners Montclair

Site ID : BIRMINGHAM, AL

Sample ID : DW-1

Project # : E1107021

Collected By : John Hughes
Collection Date : 09/03/10 12:20

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	0.050	mg/l	8260B	09/05/10	1
Acrolein	BDL	0.050	mg/l	8260B	09/05/10	1
Acrylonitrile	BDL	0.010	mg/l	8260B	09/05/10	1
Benzene	BDL	0.0010	mg/l	8260B	09/05/10	1
Bromobenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
Bromodichloromethane	BDL	0.0010	mg/l	8260B	09/05/10	1
Bromoform	BDL	0.0010	mg/l	8260B	09/05/10	1
Bromomethane	BDL	0.0050	mg/l	8260B	09/05/10	1
n-Butylbenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
sec-Butylbenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
tert-Butylbenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
Carbon tetrachloride	BDL	0.0010	mg/l	8260B	09/05/10	1
Chlorobenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
Chlorodibromomethane	BDL	0.0010	mg/l	8260B	09/05/10	1
Chloroethane	BDL	0.0050	mg/l	8260B	09/05/10	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	8260B	09/05/10	1
Chloroform	BDL	0.0050	mg/l	8260B	09/05/10	1
Chloromethane	BDL	0.0025	mg/l	8260B	09/05/10	1
2-Chlorotoluene	BDL	0.0010	mg/l	8260B	09/05/10	1
4-Chlorotoluene	BDL	0.0010	mg/l	8260B	09/05/10	1
1,2-Dibromo-3-Chloropropane	BDL	0.0050	mg/l	8260B	09/05/10	1
1,2-Dibromoethane	BDL	0.0010	mg/l	8260B	09/05/10	1
Dibromomethane	BDL	0.0010	mg/l	8260B	09/05/10	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
Dichlorodifluoromethane	BDL	0.0050	mg/l	8260B	09/05/10	1
1,1-Dichloroethane	BDL	0.0010	mg/l	8260B	09/05/10	1
1,2-Dichloroethane	BDL	0.0010	mg/l	8260B	09/05/10	1
1,1-Dichloroethene	BDL	0.0010	mg/l	8260B	09/05/10	1
cis-1,2-Dichloroethene	0.021	0.0010	mg/l	8260B	09/05/10	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	09/05/10	1
1,2-Dichloropropane	BDL	0.0010	mg/l	8260B	09/05/10	1
1,1-Dichloropropene	BDL	0.0010	mg/l	8260B	09/05/10	1
1,3-Dichloropropane	BDL	0.0010	mg/l	8260B	09/05/10	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	09/05/10	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	09/05/10	1
2,2-Dichloropropane	BDL	0.0010	mg/l	8260B	09/05/10	1
Di-isopropyl ether	BDL	0.0010	mg/l	8260B	09/05/10	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
Hexachloro-1,3-butadiene	BDL	0.0010	mg/l	8260B	09/05/10	1
Isopropylbenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
p-Isopropyltoluene	BDL	0.0010	mg/l	8260B	09/05/10	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit (PQL)



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REPORT OF ANALYSIS

Allison Whitfield
 Gallet - A Terracon Company - B-Ham
 110 12th Street North
 Birmingham, AL 35203

September 09, 2010

Date Received : September 04, 2010
 Description : Aladdin Cleaners Montclair
 Sample ID : DW-1
 Collected By : John Hughes
 Collection Date : 09/03/10 12:20

ESC Sample # : L477268-05
 Site ID : BIRMINGHAM, AL
 Project # : E1107021

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2-Butanone (MEK)	BDL	0.010	mg/l	8260B	09/05/10	1
Methylene Chloride	BDL	0.0050	mg/l	8260B	09/05/10	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/l	8260B	09/05/10	1
Methyl tert-butyl ether	0.0025	0.0010	mg/l	8260B	09/05/10	1
Naphthalene	BDL	0.0050	mg/l	8260B	09/05/10	1
n-Propylbenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
Styrene	BDL	0.0010	mg/l	8260B	09/05/10	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	09/05/10	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	09/05/10	1
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.0010	mg/l	8260B	09/05/10	1
Tetrachloroethene	0.13	0.0010	mg/l	8260B	09/05/10	1
Toluene	BDL	0.0050	mg/l	8260B	09/05/10	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
1,1,1-Trichloroethane	BDL	0.0010	mg/l	8260B	09/05/10	1
1,1,2-Trichloroethane	BDL	0.0010	mg/l	8260B	09/05/10	1
Trichloroethene	0.014	0.0010	mg/l	8260B	09/05/10	1
Trichlorofluoromethane	BDL	0.0050	mg/l	8260B	09/05/10	1
1,2,3-Trichloropropane	BDL	0.0010	mg/l	8260B	09/05/10	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
Vinyl chloride	BDL	0.0010	mg/l	8260B	09/05/10	1
Xylenes, Total	BDL	0.0030	mg/l	8260B	09/05/10	1
Surrogate Recovery						
Toluene-d8	103.		% Rec.	8260B	09/05/10	1
Dibromofluoromethane	128.		% Rec.	8260B	09/05/10	1
4-Bromofluorobenzene	107.		% Rec.	8260B	09/05/10	1

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit (PQL)

Note:
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REPORT OF ANALYSIS

September 09, 2010

Allison Whitfield
 Gallet - A Terracon Company - B-Ham
 110 12th Street North
 Birmingham, AL 35203

Date Received : September 04, 2010
 Description : Aladdin Cleaners Montclair
 Sample ID : DUPLICATE
 Collected By : John Hughes
 Collection Date : 09/03/10 00:00

ESC Sample # : L477368-06
 Site ID : BIRMINGHAM, AL
 Project # : E1107021

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	0.050	mg/l	8260B	09/05/10	1
Acrolein	BDL	0.050	mg/l	8260B	09/05/10	1
Acrylonitrile	BDL	0.010	mg/l	8260B	09/05/10	1
Benzene	BDL	0.0010	mg/l	8260B	09/05/10	1
Bromobenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
Bromodichloromethane	BDL	0.0010	mg/l	8260B	09/05/10	1
Bromoform	BDL	0.0010	mg/l	8260B	09/05/10	1
Bromomethane	BDL	0.0050	mg/l	8260B	09/05/10	1
n-Butylbenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
sec-Butylbenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
tert-Butylbenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
Carbon tetrachloride	BDL	0.0010	mg/l	8260B	09/05/10	1
Chlorobenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
Chlorodibromomethane	BDL	0.0010	mg/l	8260B	09/05/10	1
Chloroethane	BDL	0.0050	mg/l	8260B	09/05/10	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	8260B	09/05/10	1
Chloroform	BDL	0.0050	mg/l	8260B	09/05/10	1
Chloromethane	BDL	0.0025	mg/l	8260B	09/05/10	1
2-Chlorotoluene	BDL	0.0010	mg/l	8260B	09/05/10	1
4-Chlorotoluene	BDL	0.0010	mg/l	8260B	09/05/10	1
1,2-Dibromo-3-Chloropropane	BDL	0.0050	mg/l	8260B	09/05/10	1
1,2-Dibromoethane	BDL	0.0010	mg/l	8260B	09/05/10	1
Dibromomethane	BDL	0.0010	mg/l	8260B	09/05/10	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
Dichlorodifluoromethane	BDL	0.0050	mg/l	8260B	09/05/10	1
1,1-Dichloroethane	BDL	0.0010	mg/l	8260B	09/05/10	1
1,2-Dichloroethane	BDL	0.0010	mg/l	8260B	09/05/10	1
1,1-Dichloroethene	BDL	0.0010	mg/l	8260B	09/05/10	1
cis-1,2-Dichloroethene	0.021	0.0010	mg/l	8260B	09/05/10	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	09/05/10	1
1,2-Dichloropropane	BDL	0.0010	mg/l	8260B	09/05/10	1
1,1-Dichloropropene	BDL	0.0010	mg/l	8260B	09/05/10	1
1,3-Dichloropropane	BDL	0.0010	mg/l	8260B	09/05/10	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	09/05/10	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	09/05/10	1
2,2-Dichloropropane	BDL	0.0010	mg/l	8260B	09/05/10	1
Di-isopropyl ether	BDL	0.0010	mg/l	8260B	09/05/10	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
Hexachloro-1,3-butadiene	BDL	0.0010	mg/l	8260B	09/05/10	1
Isopropylbenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
p-Isopropyltoluene	BDL	0.0010	mg/l	8260B	09/05/10	1

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit (PQL)



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REPORT OF ANALYSIS

September 09, 2010

Allison Whitfield
Gallet - A Terracon Company - B-Ham
110 12th Street North
Birmingham, AL 35203

ESC Sample # : L477368-06

Date Received : September 04, 2010
Description : Aladdin Cleaners Montclair

Site ID : BIRMINGHAM, AL

Sample ID : DUPLICATE

Project # : E1107021

Collected By : John Hughes
Collection Date : 09/03/10 00:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2-Butanone (MEK)	BDL	0.010	mg/l	8260B	09/05/10	1
Methylene Chloride	BDL	0.0050	mg/l	8260B	09/05/10	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/l	8260B	09/05/10	1
Methyl tert-butyl ether	0.0027	0.0010	mg/l	8260B	09/05/10	1
Naphthalene	BDL	0.0050	mg/l	8260B	09/05/10	1
n-Propylbenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
Styrene	BDL	0.0010	mg/l	8260B	09/05/10	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	09/05/10	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	09/05/10	1
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.0010	mg/l	8260B	09/05/10	1
Tetrachloroethene	0.13	0.0010	mg/l	8260B	09/05/10	1
Toluene	BDL	0.0050	mg/l	8260B	09/05/10	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
1,1,1-Trichloroethane	BDL	0.0010	mg/l	8260B	09/05/10	1
1,1,2-Trichloroethane	BDL	0.0010	mg/l	8260B	09/05/10	1
Trichloroethene	0.014	0.0010	mg/l	8260B	09/05/10	1
Trichlorofluoromethane	BDL	0.0050	mg/l	8260B	09/05/10	1
1,2,3-Trichloropropane	BDL	0.0010	mg/l	8260B	09/05/10	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/l	8260B	09/05/10	1
Vinyl chloride	BDL	0.0010	mg/l	8260B	09/05/10	1
Xylenes, Total	BDL	0.0030	mg/l	8260B	09/05/10	1
Surrogate Recovery						
Toluene-d8	101.		% Rec.	8260B	09/05/10	1
Dibromofluoromethane	129.		% Rec.	8260B	09/05/10	1
4-Bromofluorobenzene	108.		% Rec.	8260B	09/05/10	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 09/09/10 12:59 Printed: 09/09/10 13:55

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L477368-01	WG497043	SAMP	Bromomethane	R1365129	J4
	WG497043	SAMP	Dibromofluoromethane	R1365129	J1
L477368-02	WG497043	SAMP	Bromomethane	R1365129	J4
	WG497043	SAMP	Dibromofluoromethane	R1365129	J1
L477368-03	WG497043	SAMP	Bromomethane	R1365129	J4
	WG497043	SAMP	Dibromofluoromethane	R1365129	J1
L477368-04	WG497043	SAMP	Bromomethane	R1365129	J4
L477368-05	WG497043	SAMP	Bromomethane	R1365129	J4
	WG497043	SAMP	Dibromofluoromethane	R1365129	J1
L477368-06	WG497043	SAMP	Bromomethane	R1365129	J4
	WG497043	SAMP	Dibromofluoromethane	R1365129	J1

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits
J4	The associated batch QC was outside the established quality control range for accuracy.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

- Accuracy** - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision** - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.
- Surrogate** - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC** - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.



Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	Date Results Needed:			No. of Cntrs	Remarks/Contaminant	Sample # (lab only)
						Rush?	Same Day.....200%	Next Day.....100%			
MV-1	Grab	GW		9/3/10	1200				2	X	24774820
MV-2					1140				2	X	02
MV-3					1150				2	X	03
MV-4					1210				2	X	04
DW-1					1220				2	X	05
Duplicate:									2	X	06

VOC's 8260

Company Name/Address:
Gullet & Associates
110 12th Street North
Birmingham, AL 35203

Billing Information:
SAME

Report to: Allison Whitfield
Project Description: Aladdin Cleaners Montclair
Phone: (205) 942-1289
FAX: (205) 443-5302
Client Project #: E1104021
Collected by: John Hughes
Site/Facility ID#:
ESC Key: Birmingham, AL
P.O.#:
Email to: a.pwhi@fieldsmith.com
City/State Collected: Birmingham, AL

Company Name/Address:
Gullet & Associates
110 12th Street North
Birmingham, AL 35203

Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other _____

pH _____ Temp _____

Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
<i>[Signature]</i>	9/3/10		<i>[Signature]</i>		
<i>[Signature]</i>			<i>[Signature]</i>		
<i>[Signature]</i>			<i>[Signature]</i>		

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
<i>[Signature]</i>			<i>[Signature]</i>	9/4/10	0900

Remarks: 8700 116477820

Samples returned via: UPS FedEx Courier

Temp: 34° Bottles Received: 12V

Date: 9/4/10 Time: 0900

Condition: (lab use only) *[Signature]*

CoC Seals Intact: Y ___ N ___ NA

pH Checked: NCF



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Matt Hall, Preston Pattison
Terracon Consultants - B-Ham AL.
110 12th Street North
Birmingham, AL 35203

Report Summary

Wednesday April 24, 2013

Report Number: L630300
Samples Received: 04/12/13
Client Project: E1117070

Description: Aladdin Cleaners

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By: Jimmy Hunt
Jimmy Hunt, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197,
FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016,
NC - ENV375/DW21704/BIO041, ND - R-140, NJ - TN002, NJ NELAP - TN002,
SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612,
MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1,
TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

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REPORT OF ANALYSIS

April 24, 2013

Matt Hall, Preston Pattison
 Terracon Consultants - B-Ham AL
 110 12th Street North
 Birmingham, AL 35203

Date Received : April 12, 2013
 Description : Aladdin Cleaners
 Sample ID : DW-1D 8-10 FT
 Collected By : Preston Pattison
 Collection Date : 04/01/13 08:30

ESC Sample # : L630300-01

Site ID : BIRMINGHAM, AL

Project # : E1117070

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	85.1	0.100		2540 G-2011	04/15/13	1
Volatile Organics						
Acetone	BDL	0.29	mg/kg	8260B	04/12/13	5
Acrylonitrile	BDL	0.059	mg/kg	8260B	04/12/13	5
Benzene	BDL	0.0059	mg/kg	8260B	04/12/13	5
Bromobenzene	BDL	0.0059	mg/kg	8260B	04/12/13	5
Bromodichloromethane	BDL	0.0059	mg/kg	8260B	04/12/13	5
Bromoform	BDL	0.0059	mg/kg	8260B	04/12/13	5
Bromomethane	BDL	0.029	mg/kg	8260B	04/12/13	5
n-Butylbenzene	BDL	0.0059	mg/kg	8260B	04/12/13	5
sec-Butylbenzene	BDL	0.0059	mg/kg	8260B	04/12/13	5
tert-Butylbenzene	BDL	0.0059	mg/kg	8260B	04/12/13	5
Carbon tetrachloride	BDL	0.0059	mg/kg	8260B	04/12/13	5
Chlorobenzene	BDL	0.0059	mg/kg	8260B	04/12/13	5
Chlorodibromomethane	BDL	0.0059	mg/kg	8260B	04/12/13	5
Chloroethane	BDL	0.029	mg/kg	8260B	04/12/13	5
2-Chloroethyl vinyl ether	BDL	0.29	mg/kg	8260B	04/12/13	5
Chloroform	BDL	0.029	mg/kg	8260B	04/12/13	5
Chloromethane	BDL	0.015	mg/kg	8260B	04/12/13	5
2-Chlorotoluene	BDL	0.0059	mg/kg	8260B	04/12/13	5
4-Chlorotoluene	BDL	0.0059	mg/kg	8260B	04/12/13	5
1,2-Dibromo-3-Chloropropane	BDL	0.029	mg/kg	8260B	04/12/13	5
1,2-Dibromoethane	BDL	0.0059	mg/kg	8260B	04/12/13	5
Dibromomethane	BDL	0.0059	mg/kg	8260B	04/12/13	5
1,2-Dichlorobenzene	BDL	0.0059	mg/kg	8260B	04/12/13	5
1,3-Dichlorobenzene	BDL	0.0059	mg/kg	8260B	04/12/13	5
1,4-Dichlorobenzene	BDL	0.0059	mg/kg	8260B	04/12/13	5
Dichlorodifluoromethane	BDL	0.029	mg/kg	8260B	04/12/13	5
1,1-Dichloroethane	BDL	0.0059	mg/kg	8260B	04/12/13	5
1,2-Dichloroethane	BDL	0.0059	mg/kg	8260B	04/12/13	5
1,1-Dichloroethene	BDL	0.0059	mg/kg	8260B	04/12/13	5
cis-1,2-Dichloroethene	BDL	0.0059	mg/kg	8260B	04/12/13	5
trans-1,2-Dichloroethene	BDL	0.0059	mg/kg	8260B	04/12/13	5
1,2-Dichloropropane	BDL	0.0059	mg/kg	8260B	04/12/13	5
1,1-Dichloropropene	BDL	0.0059	mg/kg	8260B	04/12/13	5
1,3-Dichloropropane	BDL	0.0059	mg/kg	8260B	04/12/13	5
cis-1,3-Dichloropropene	BDL	0.0059	mg/kg	8260B	04/12/13	5
trans-1,3-Dichloropropene	BDL	0.0059	mg/kg	8260B	04/12/13	5
2,2-Dichloropropane	BDL	0.0059	mg/kg	8260B	04/12/13	5
Di-isopropyl ether	BDL	0.0059	mg/kg	8260B	04/12/13	5
Ethylbenzene	BDL	0.0059	mg/kg	8260B	04/12/13	5
Hexachloro-1,3-butadiene	BDL	0.0059	mg/kg	8260B	04/12/13	5
Isopropylbenzene	BDL	0.0059	mg/kg	8260B	04/12/13	5

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

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REPORT OF ANALYSIS

April 24, 2013

Matt Hall, Preston Pattison
 Terracon Consultants - B-Ham AL
 110 12th Street North
 Birmingham, AL 35203

ESC Sample # : L630300-01

Date Received : April 12, 2013
 Description : Aladdin Cleaners

Site ID : BIRMINGHAM, AL

Sample ID : DW-1D 8-10 FT

Project # : E1117070

Collected By : Preston Pattison
 Collection Date : 04/01/13 08:30

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	BDL	0.0059	mg/kg	8260B	04/12/13	5
2-Butanone (MEK)	BDL	0.059	mg/kg	8260B	04/12/13	5
Methylene Chloride	BDL	0.029	mg/kg	8260B	04/12/13	5
4-Methyl-2-pentanone (MIBK)	BDL	0.059	mg/kg	8260B	04/12/13	5
Methyl tert-butyl ether	BDL	0.0059	mg/kg	8260B	04/12/13	5
Naphthalene	BDL	0.029	mg/kg	8260B	04/12/13	5
n-Propylbenzene	BDL	0.0059	mg/kg	8260B	04/12/13	5
Styrene	BDL	0.0059	mg/kg	8260B	04/12/13	5
1,1,1,2-Tetrachloroethane	BDL	0.0059	mg/kg	8260B	04/12/13	5
1,1,2,2-Tetrachloroethane	BDL	0.0059	mg/kg	8260B	04/12/13	5
1,1,2-Trichlorotrifluoroethane	BDL	0.0059	mg/kg	8260B	04/12/13	5
Tetrachloroethene	BDL	0.0059	mg/kg	8260B	04/12/13	5
Toluene	BDL	0.029	mg/kg	8260B	04/12/13	5
1,2,3-Trichlorobenzene	BDL	0.0059	mg/kg	8260B	04/12/13	5
1,2,4-Trichlorobenzene	BDL	0.0059	mg/kg	8260B	04/12/13	5
1,1,1-Trichloroethane	BDL	0.0059	mg/kg	8260B	04/12/13	5
1,1,2-Trichloroethane	BDL	0.0059	mg/kg	8260B	04/12/13	5
Trichloroethene	BDL	0.0059	mg/kg	8260B	04/12/13	5
Trichlorofluoromethane	BDL	0.029	mg/kg	8260B	04/12/13	5
1,2,3-Trichloropropane	BDL	0.015	mg/kg	8260B	04/12/13	5
1,2,4-Trimethylbenzene	BDL	0.0059	mg/kg	8260B	04/12/13	5
1,2,3-Trimethylbenzene	BDL	0.0059	mg/kg	8260B	04/12/13	5
1,3,5-Trimethylbenzene	BDL	0.0059	mg/kg	8260B	04/12/13	5
Vinyl chloride	BDL	0.0059	mg/kg	8260B	04/12/13	5
Xylenes, Total	BDL	0.018	mg/kg	8260B	04/12/13	5
Surrogate Recovery						
Toluene-d8	101.		% Rec.	8260B	04/12/13	5
Dibromofluoromethane	103.		% Rec.	8260B	04/12/13	5
4-Bromofluorobenzene	104.		% Rec.	8260B	04/12/13	5

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

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REPORT OF ANALYSIS

April 24, 2013

Matt Hall, Preston Pattison
 Terracon Consultants - B-Ham AL.
 110 12th Street North
 Birmingham, AL 35203

ESC Sample # : L630300-02

Date Received : April 12, 2013
 Description : Aladdin Cleaners

Site ID : BIRMINGHAM, AL

Sample ID : DW-3 8-10 FT

Project # : E1117070

Collected By : Preston Pattison
 Collection Date : 04/02/13 09:53

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	78.1	0.100		2540 G-2011	04/17/13	1
Volatile Organics						
Acetone	BDL	0.32	mg/kg	8260B	04/12/13	5
Acrylonitrile	BDL	0.0064	mg/kg	8260B	04/12/13	5
Benzene	BDL	0.0064	mg/kg	8260B	04/12/13	5
Bromobenzene	BDL	0.0064	mg/kg	8260B	04/12/13	5
Bromodichloromethane	BDL	0.0064	mg/kg	8260B	04/12/13	5
Bromoform	BDL	0.0064	mg/kg	8260B	04/12/13	5
Bromomethane	BDL	0.032	mg/kg	8260B	04/12/13	5
n-Butylbenzene	BDL	0.0064	mg/kg	8260B	04/12/13	5
sec-Butylbenzene	BDL	0.0064	mg/kg	8260B	04/12/13	5
tert-Butylbenzene	BDL	0.0064	mg/kg	8260B	04/12/13	5
Carbon tetrachloride	BDL	0.0064	mg/kg	8260B	04/12/13	5
Chlorobenzene	BDL	0.0064	mg/kg	8260B	04/12/13	5
Chlorodibromomethane	BDL	0.0064	mg/kg	8260B	04/12/13	5
Chloroethane	BDL	0.032	mg/kg	8260B	04/12/13	5
2-Chloroethyl vinyl ether	BDL	0.32	mg/kg	8260B	04/12/13	5
Chloroform	BDL	0.032	mg/kg	8260B	04/12/13	5
Chloromethane	BDL	0.016	mg/kg	8260B	04/12/13	5
2-Chlorotoluene	BDL	0.0064	mg/kg	8260B	04/12/13	5
4-Chlorotoluene	BDL	0.0064	mg/kg	8260B	04/12/13	5
1,2-Dibromo-3-Chloropropane	BDL	0.032	mg/kg	8260B	04/12/13	5
1,2-Dibromoethane	BDL	0.0064	mg/kg	8260B	04/12/13	5
Dibromomethane	BDL	0.0064	mg/kg	8260B	04/12/13	5
1,2-Dichlorobenzene	BDL	0.0064	mg/kg	8260B	04/12/13	5
1,3-Dichlorobenzene	BDL	0.0064	mg/kg	8260B	04/12/13	5
1,4-Dichlorobenzene	BDL	0.0064	mg/kg	8260B	04/12/13	5
Dichlorodifluoromethane	BDL	0.032	mg/kg	8260B	04/12/13	5
1,1-Dichloroethane	BDL	0.0064	mg/kg	8260B	04/12/13	5
1,2-Dichloroethane	BDL	0.0064	mg/kg	8260B	04/12/13	5
1,1-Dichloroethene	BDL	0.0064	mg/kg	8260B	04/12/13	5
cis-1,2-Dichloroethene	BDL	0.0064	mg/kg	8260B	04/12/13	5
trans-1,2-Dichloroethene	BDL	0.0064	mg/kg	8260B	04/12/13	5
1,2-Dichloropropane	BDL	0.0064	mg/kg	8260B	04/12/13	5
1,1-Dichloropropene	BDL	0.0064	mg/kg	8260B	04/12/13	5
1,3-Dichloropropane	BDL	0.0064	mg/kg	8260B	04/12/13	5
cis-1,3-Dichloropropene	BDL	0.0064	mg/kg	8260B	04/12/13	5
trans-1,3-Dichloropropene	BDL	0.0064	mg/kg	8260B	04/12/13	5
2,2-Dichloropropane	BDL	0.0064	mg/kg	8260B	04/12/13	5
Di-isopropyl ether	BDL	0.0064	mg/kg	8260B	04/12/13	5
Ethylbenzene	BDL	0.0064	mg/kg	8260B	04/12/13	5
Hexachloro-1,3-butadiene	BDL	0.0064	mg/kg	8260B	04/12/13	5
Isopropylbenzene	BDL	0.0064	mg/kg	8260B	04/12/13	5

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

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Tax I.D. 62-0814289
 Est. 1970

REPORT OF ANALYSIS

Matt Hall, Preston Pattison
 Terracon Consultants - B-Ham AL.
 110 12th Street North
 Birmingham, AL 35203

April 24, 2013

Date Received : April 12, 2013
 Description : Aladdin Cleaners
 Sample ID : DW-3 8-10 FT
 Collected By : Preston Pattison
 Collection Date : 04/02/13 09:53

ESC Sample # : L630300-02
 Site ID : BIRMINGHAM, AL
 Project # : E1117070

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	BDL	0.0064	mg/kg	8260B	04/12/13	5
2-Butanone (MEK)	BDL	0.064	mg/kg	8260B	04/12/13	5
Methylene Chloride	BDL	0.032	mg/kg	8260B	04/12/13	5
4-Methyl-2-pentanone (MIBK)	BDL	0.064	mg/kg	8260B	04/12/13	5
Methyl tert-butyl ether	BDL	0.0064	mg/kg	8260B	04/12/13	5
Naphthalene	BDL	0.032	mg/kg	8260B	04/12/13	5
n-Propylbenzene	BDL	0.0064	mg/kg	8260B	04/12/13	5
Styrene	BDL	0.0064	mg/kg	8260B	04/12/13	5
1,1,1,2-Tetrachloroethane	BDL	0.0064	mg/kg	8260B	04/12/13	5
1,1,2,2-Tetrachloroethane	BDL	0.0064	mg/kg	8260B	04/12/13	5
1,1,2-Trichlorotrifluoroethane	BDL	0.0064	mg/kg	8260B	04/12/13	5
Tetrachloroethene	BDL	0.0064	mg/kg	8260B	04/12/13	5
Toluene	BDL	0.032	mg/kg	8260B	04/12/13	5
1,2,3-Trichlorobenzene	BDL	0.0064	mg/kg	8260B	04/12/13	5
1,2,4-Trichlorobenzene	BDL	0.0064	mg/kg	8260B	04/12/13	5
1,1,1-Trichloroethane	BDL	0.0064	mg/kg	8260B	04/12/13	5
1,1,2-Trichloroethane	BDL	0.0064	mg/kg	8260B	04/12/13	5
Trichloroethene	BDL	0.0064	mg/kg	8260B	04/12/13	5
Trichlorofluoromethane	BDL	0.032	mg/kg	8260B	04/12/13	5
1,2,3-Trichloropropane	BDL	0.016	mg/kg	8260B	04/12/13	5
1,2,4-Trimethylbenzene	BDL	0.0064	mg/kg	8260B	04/12/13	5
1,2,3-Trimethylbenzene	BDL	0.0064	mg/kg	8260B	04/12/13	5
1,3,5-Trimethylbenzene	BDL	0.0064	mg/kg	8260B	04/12/13	5
Vinyl chloride	BDL	0.0064	mg/kg	8260B	04/12/13	5
Xylenes, Total	BDL	0.019	mg/kg	8260B	04/12/13	5
Surrogate Recovery						
Toluene-d8	102.		% Rec.	8260B	04/12/13	5
Dibromofluoromethane	101.		% Rec.	8260B	04/12/13	5
4-Bromofluorobenzene	102.		% Rec.	8260B	04/12/13	5

Results listed are dry weight basis.
 BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit (PQL)

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REPORT OF ANALYSIS

April 24, 2013

Matt Hall, Preston Pattison
Terracon Consultants - B-Ham AL.
110 12th Street North
Birmingham, AL 35203

ESC Sample # : L630300-03

Date Received : April 12, 2013
Description : Aladdin Cleaners

Site ID : BIRMINGHAM, AL

Sample ID : DW-2 8-10 FT

Project # : E1117070

Collected By : Preston Pattison
Collection Date : 04/03/13 18:00

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	76.4	0.100		2540 G-2011	04/17/13	1
Volatile Organics						
Acetone	BDL	0.33	mg/kg	8260B	04/12/13	5
Acrylonitrile	BDL	0.065	mg/kg	8260B	04/12/13	5
Benzene	BDL	0.0065	mg/kg	8260B	04/12/13	5
Bromobenzene	BDL	0.0055	mg/kg	8260B	04/12/13	5
Bromodichloromethane	BDL	0.0065	mg/kg	8260B	04/12/13	5
Bromoform	BDL	0.0065	mg/kg	8260B	04/12/13	5
Bromomethane	BDL	0.033	mg/kg	8260B	04/12/13	5
n-Butylbenzene	BDL	0.0065	mg/kg	8260B	04/12/13	5
sec-Butylbenzene	BDL	0.0065	mg/kg	8260B	04/12/13	5
tert-Butylbenzene	BDL	0.0065	mg/kg	8260B	04/12/13	5
Carbon tetrachloride	BDL	0.0065	mg/kg	8260B	04/12/13	5
Chlorobenzene	BDL	0.0065	mg/kg	8260B	04/12/13	5
Chlorodibromomethane	BDL	0.0065	mg/kg	8260B	04/12/13	5
Chloroethane	BDL	0.033	mg/kg	8260B	04/12/13	5
2-Chloroethyl vinyl ether	BDL	0.33	mg/kg	8260B	04/12/13	5
Chloroform	BDL	0.033	mg/kg	8260B	04/12/13	5
Chloromethane	BDL	0.016	mg/kg	8260B	04/12/13	5
2-Chlorotoluene	BDL	0.0065	mg/kg	8260B	04/12/13	5
4-Chlorotoluene	BDL	0.0065	mg/kg	8260B	04/12/13	5
1,2-Dibromo-3-Chloropropane	BDL	0.033	mg/kg	8260B	04/12/13	5
1,2-Dibromoethane	BDL	0.0065	mg/kg	8260B	04/12/13	5
Dibromomethane	BDL	0.0065	mg/kg	8260B	04/12/13	5
1,2-Dichlorobenzene	BDL	0.0065	mg/kg	8260B	04/12/13	5
1,3-Dichlorobenzene	BDL	0.0065	mg/kg	8260B	04/12/13	5
1,4-Dichlorobenzene	BDL	0.0065	mg/kg	8260B	04/12/13	5
Dichlorodifluoromethane	BDL	0.033	mg/kg	8260B	04/12/13	5
1,1-Dichloroethane	BDL	0.0065	mg/kg	8260B	04/12/13	5
1,2-Dichloroethane	BDL	0.0065	mg/kg	8260B	04/12/13	5
1,1-Dichloroethene	BDL	0.0065	mg/kg	8260B	04/12/13	5
cis-1,2-Dichloroethene	BDL	0.0065	mg/kg	8260B	04/12/13	5
trans-1,2-Dichloroethene	BDL	0.0065	mg/kg	8260B	04/12/13	5
1,2-Dichloropropane	BDL	0.0065	mg/kg	8260B	04/12/13	5
1,1-Dichloropropene	BDL	0.0065	mg/kg	8260B	04/12/13	5
1,3-Dichloropropane	BDL	0.0065	mg/kg	8260B	04/12/13	5
cis-1,3-Dichloropropene	BDL	0.0065	mg/kg	8260B	04/12/13	5
trans-1,3-Dichloropropene	BDL	0.0065	mg/kg	8260B	04/12/13	5
2,2-Dichloropropane	BDL	0.0065	mg/kg	8260B	04/12/13	5
Di-isopropyl ether	BDL	0.0065	mg/kg	8260B	04/12/13	5
Ethylbenzene	BDL	0.0065	mg/kg	8260B	04/12/13	5
Hexachloro-1,3-butadiene	BDL	0.0065	mg/kg	8260B	04/12/13	5
Isopropylbenzene	BDL	0.0065	mg/kg	8260B	04/12/13	5

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

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REPORT OF ANALYSIS

April 24, 2013

Matt Hall, Preston Pattison
 Terracon Consultants - B-Ham AL.
 110 12th Street North
 Birmingham, AL 35203

ESC Sample # : L630300-03

Date Received : April 12, 2013
 Description : Aladdin Cleaners

Site ID : BIRMINGHAM, AL

Sample ID : DW-2 8-10 FT

Project # : E1117070

Collected By : Preston Pattison
 Collection Date : 04/03/13 18:00

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	BDL	0.0065	mg/kg	8260B	04/12/13	5
2-Butanone (MEK)	BDL	0.065	mg/kg	8260B	04/12/13	5
Methylene Chloride	BDL	0.033	mg/kg	8260B	04/12/13	5
4-Methyl-2-pentanone (MIBK)	BDL	0.065	mg/kg	8260B	04/12/13	5
Methyl tert-butyl ether	BDL	0.0065	mg/kg	8260B	04/12/13	5
Naphthalene	BDL	0.033	mg/kg	8260B	04/12/13	5
n-Propylbenzene	BDL	0.0065	mg/kg	8260B	04/12/13	5
Styrene	BDL	0.0065	mg/kg	8260B	04/12/13	5
1,1,1,2-Tetrachloroethane	BDL	0.0065	mg/kg	8260B	04/12/13	5
1,1,2,2-Tetrachloroethane	BDL	0.0065	mg/kg	8260B	04/12/13	5
1,1,2-Trichlorotrifluoroethane	BDL	0.0065	mg/kg	8260B	04/12/13	5
Tetrachloroethene	BDL	0.0065	mg/kg	8260B	04/12/13	5
Toluene	BDL	0.033	mg/kg	8260B	04/12/13	5
1,2,3-Trichlorobenzene	BDL	0.0065	mg/kg	8260B	04/12/13	5
1,2,4-Trichlorobenzene	BDL	0.0065	mg/kg	8260B	04/12/13	5
1,1,1-Trichloroethane	BDL	0.0065	mg/kg	8260B	04/12/13	5
1,1,2-Trichloroethane	BDL	0.0065	mg/kg	8260B	04/12/13	5
Trichloroethene	BDL	0.0065	mg/kg	8260B	04/12/13	5
Trichlorofluoromethane	BDL	0.033	mg/kg	8260B	04/12/13	5
1,2,3-Trichloropropane	BDL	0.016	mg/kg	8260B	04/12/13	5
1,2,4-Trimethylbenzene	BDL	0.0065	mg/kg	8260B	04/12/13	5
1,2,3-Trimethylbenzene	BDL	0.0065	mg/kg	8260B	04/12/13	5
1,3,5-Trimethylbenzene	BDL	0.0065	mg/kg	8260B	04/12/13	5
Vinyl chloride	BDL	0.0065	mg/kg	8260B	04/12/13	5
Xylenes, Total	BDL	0.020	mg/kg	8260B	04/12/13	5
Surrogate Recovery						
Toluene-d8	102.		Rec.	8260B	04/12/13	5
Dibromofluoromethane	98.4		Rec.	8260B	04/12/13	5
4-Bromofluorobenzene	102.		Rec.	8260B	04/12/13	5

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

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REPORT OF ANALYSIS

April 24, 2013

Matt Hall, Preston Pattison
Terracon Consultants - B-Ham AL.
110 12th Street North
Birmingham, AL 35203

Date Received : April 12, 2013
Description : Aladdin Cleaners
Sample ID : MW-6 8-10 FT
Collected By : Preston Pattison
Collection Date : 04/04/13 09:25

ESC Sample # : L630300-04
Site ID : BIRMINGHAM, AL
Project # : E1117070

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	85.7	0.100	%	2540 G-2011	04/17/13	1
Volatile Organics						
Acetone	BDL	0.29	mg/kg	8260B	04/12/13	5
Acrylonitrile	BDL	0.058	mg/kg	8260B	04/12/13	5
Benzene	BDL	0.0058	mg/kg	8260B	04/12/13	5
Bromobenzene	BDL	0.0058	mg/kg	8260B	04/12/13	5
Bromodichloromethane	BDL	0.0058	mg/kg	8260B	04/12/13	5
Bromoform	BDL	0.0058	mg/kg	8260B	04/12/13	5
Bromomethane	BDL	0.029	mg/kg	8260B	04/12/13	5
n-Butylbenzene	BDL	0.0058	mg/kg	8260B	04/12/13	5
sec-Butylbenzene	BDL	0.0058	mg/kg	8260B	04/12/13	5
tert-Butylbenzene	BDL	0.0058	mg/kg	8260B	04/12/13	5
Carbon tetrachloride	BDL	0.0058	mg/kg	8260B	04/12/13	5
Chlorobenzene	BDL	0.0058	mg/kg	8260B	04/12/13	5
Chlorodibromomethane	BDL	0.0058	mg/kg	8260B	04/12/13	5
Chloroethane	BDL	0.029	mg/kg	8260B	04/12/13	5
2-Chloroethyl vinyl ether	BDL	0.29	mg/kg	8260B	04/12/13	5
Chloroform	BDL	0.029	mg/kg	8260B	04/12/13	5
Chloromethane	BDL	0.014	mg/kg	8260B	04/12/13	5
2-Chlorotoluene	BDL	0.0058	mg/kg	8260B	04/12/13	5
4-Chlorotoluene	BDL	0.0058	mg/kg	8260B	04/12/13	5
1,2-Dibromo-3-Chloropropane	BDL	0.029	mg/kg	8260B	04/12/13	5
1,2-Dibromoethane	BDL	0.0058	mg/kg	8260B	04/12/13	5
Dibromomethane	BDL	0.0058	mg/kg	8260B	04/12/13	5
1,2-Dichlorobenzene	BDL	0.0058	mg/kg	8260B	04/12/13	5
1,3-Dichlorobenzene	BDL	0.0058	mg/kg	8260B	04/12/13	5
1,4-Dichlorobenzene	BDL	0.0058	mg/kg	8260B	04/12/13	5
Dichlorodifluoromethane	BDL	0.029	mg/kg	8260B	04/12/13	5
1,1-Dichloroethane	BDL	0.0058	mg/kg	8260B	04/12/13	5
1,2-Dichloroethane	BDL	0.0058	mg/kg	8260B	04/12/13	5
1,1-Dichloroethene	BDL	0.0058	mg/kg	8260B	04/12/13	5
cis-1,2-Dichloroethene	BDL	0.0058	mg/kg	8260B	04/12/13	5
trans-1,2-Dichloroethene	BDL	0.0058	mg/kg	8260B	04/12/13	5
1,2-Dichloropropane	BDL	0.0058	mg/kg	8260B	04/12/13	5
1,1-Dichloropropene	BDL	0.0058	mg/kg	8260B	04/12/13	5
1,3-Dichloropropane	BDL	0.0058	mg/kg	8260B	04/12/13	5
cis-1,3-Dichloropropene	BDL	0.0058	mg/kg	8260B	04/12/13	5
trans-1,3-Dichloropropene	BDL	0.0058	mg/kg	8260B	04/12/13	5
2,2-Dichloropropane	BDL	0.0058	mg/kg	8260B	04/12/13	5
Di-isopropyl ether	BDL	0.0058	mg/kg	8260B	04/12/13	5
Ethylbenzene	BDL	0.0058	mg/kg	8260B	04/12/13	5
Hexachloro-1,3-butadiene	BDL	0.0058	mg/kg	8260B	04/12/13	5
Isopropylbenzene	BDL	0.0058	mg/kg	8260B	04/12/13	5

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

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REPORT OF ANALYSIS

April 24, 2013

Matt Hall, Preston Pattison
 Terracon Consultants - B-Ham AL.
 110 12th Street North
 Birmingham, AL 35203

Date Received : April 12, 2013
 Description : Aladdin Cleaners
 Sample ID : MW-6 8-10 FT
 Collected By : Preston Pattison
 Collection Date : 04/04/13 09:25

ESC Sample # : L630300-04
 Site ID : BIRMINGHAM, AL
 Project # : E1117070

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	BDL	0.0058	mg/kg	8260B	04/12/13	5
2-Butanone (MEK)	BDL	0.058	mg/kg	8260B	04/12/13	5
Methylene Chloride	BDL	0.029	mg/kg	8260B	04/12/13	5
4-Methyl-2-pentanone (MIBK)	BDL	0.058	mg/kg	8260B	04/12/13	5
Methyl tert-butyl ether	BDL	0.0058	mg/kg	8260B	04/12/13	5
Naphthalene	BDL	0.029	mg/kg	8260B	04/12/13	5
n-Propylbenzene	BDL	0.0058	mg/kg	8260B	04/12/13	5
Styrene	BDL	0.0058	mg/kg	8260B	04/12/13	5
1,1,1,2-Tetrachloroethane	BDL	0.0058	mg/kg	8260B	04/12/13	5
1,1,2,2-Tetrachloroethane	BDL	0.0058	mg/kg	8260B	04/12/13	5
1,1,2-Trichlorotrifluoroethane	BDL	0.0058	mg/kg	8260B	04/12/13	5
Tetrachloroethene	BDL	0.0058	mg/kg	8260B	04/12/13	5
Toluene	BDL	0.029	mg/kg	8260B	04/12/13	5
1,2,3-Trichlorobenzene	BDL	0.0058	mg/kg	8260B	04/12/13	5
1,2,4-Trichlorobenzene	BDL	0.0058	mg/kg	8260B	04/12/13	5
1,1,1-Trichloroethane	BDL	0.0058	mg/kg	8260B	04/12/13	5
1,1,2-Trichloroethane	BDL	0.0058	mg/kg	8260B	04/12/13	5
Trichloroethene	BDL	0.0058	mg/kg	8260B	04/12/13	5
Trichlorofluoromethane	BDL	0.029	mg/kg	8260B	04/12/13	5
1,2,3-Trichloropropane	BDL	0.014	mg/kg	8260B	04/12/13	5
1,2,4-Trimethylbenzene	BDL	0.0058	mg/kg	8260B	04/12/13	5
1,2,3-Trimethylbenzene	BDL	0.0058	mg/kg	8260B	04/12/13	5
1,3,5-Trimethylbenzene	BDL	0.0058	mg/kg	8260B	04/12/13	5
Vinyl chloride	BDL	0.0058	mg/kg	8260B	04/12/13	5
Xylenes, Total	BDL	0.018	mg/kg	8260B	04/12/13	5
Surrogate Recovery						
Toluene-d8	103.		Rec.	8260B	04/12/13	5
Dibromofluoromethane	102.		Rec.	8260B	04/12/13	5
4-Bromofluorobenzene	105.		Rec.	8260B	04/12/13	5

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

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REPORT OF ANALYSIS

April 24, 2013

Matt Hall, Preston Pattison
 Terracon Consultants - B-Ham AL.
 110 12th Street North
 Birmingham, AL 35203

ESC Sample # : L630300-05

Date Received : April 12, 2013
 Description : Aladdin Cleaners

Site ID : BIRMINGHAM, AL

Sample ID : DW-4 1-3 FT

Project # : E1117070

Collected By : Preston Pattison
 Collection Date : 04/03/13 10:05

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	88.0	0.100	%	2540 G-2011	04/17/13	1
Volatile Organics						
Acetone	BDL	0.28	mg/kg	8260B	04/12/13	5
Acrylonitrile	BDL	0.0057	mg/kg	8260B	04/12/13	5
Benzene	BDL	0.0057	mg/kg	8260B	04/12/13	5
Bromobenzene	BDL	0.0057	mg/kg	8260B	04/12/13	5
Bromodichloromethane	BDL	0.0057	mg/kg	8260B	04/12/13	5
Bromoform	BDL	0.0057	mg/kg	8260B	04/12/13	5
Bromomethane	BDL	0.028	mg/kg	8260B	04/12/13	5
n-Butylbenzene	BDL	0.0057	mg/kg	8260B	04/12/13	5
sec-Butylbenzene	BDL	0.0057	mg/kg	8260B	04/12/13	5
tert-Butylbenzene	BDL	0.0057	mg/kg	8260B	04/12/13	5
Carbon tetrachloride	BDL	0.0057	mg/kg	8260B	04/12/13	5
Chlorobenzene	BDL	0.0057	mg/kg	8260B	04/12/13	5
Chlorodibromomethane	BDL	0.0057	mg/kg	8260B	04/12/13	5
Chloroethane	BDL	0.028	mg/kg	8260B	04/12/13	5
2-Chloroethyl vinyl ether	BDL	0.28	mg/kg	8260B	04/12/13	5
Chloroform	BDL	0.028	mg/kg	8260B	04/12/13	5
Chloromethane	BDL	0.014	mg/kg	8260B	04/12/13	5
2-Chlorotoluene	BDL	0.0057	mg/kg	8260B	04/12/13	5
4-Chlorotoluene	BDL	0.0057	mg/kg	8260B	04/12/13	5
1,2-Dibromo-3-Chloropropane	BDL	0.028	mg/kg	8260B	04/12/13	5
1,2-Dibromoethane	BDL	0.0057	mg/kg	8260B	04/12/13	5
Dibromomethane	BDL	0.0057	mg/kg	8260B	04/12/13	5
1,2-Dichlorobenzene	EDL	0.0057	mg/kg	8260B	04/12/13	5
1,3-Dichlorobenzene	BDL	0.0057	mg/kg	8260B	04/12/13	5
1,4-Dichlorobenzene	BDL	0.0057	mg/kg	8260B	04/12/13	5
Dichlorodifluoromethane	BDL	0.028	mg/kg	8260B	04/12/13	5
1,1-Dichloroethane	BDL	0.0057	mg/kg	8260B	04/12/13	5
1,2-Dichloroethane	BDL	0.0057	mg/kg	8260B	04/12/13	5
1,1-Dichloroethene	BDL	0.0057	mg/kg	8260B	04/12/13	5
cis-1,2-Dichloroethene	BDL	0.0057	mg/kg	8260B	04/12/13	5
trans-1,2-Dichloroethene	BDL	0.0057	mg/kg	8260B	04/12/13	5
1,2-Dichloropropane	BDL	0.0057	mg/kg	8260B	04/12/13	5
1,1-Dichloropropene	BDL	0.0057	mg/kg	8260B	04/12/13	5
1,3-Dichloropropane	BDL	0.0057	mg/kg	8260B	04/12/13	5
cis-1,3-Dichloropropene	BDL	0.0057	mg/kg	8260B	04/12/13	5
trans-1,3-Dichloropropene	BDL	0.0057	mg/kg	8260B	04/12/13	5
2,2-Dichloropropane	BDL	0.0057	mg/kg	8260B	04/12/13	5
Di-isopropyl ether	BDL	0.0057	mg/kg	8260B	04/12/13	5
Ethylbenzene	BDL	0.0057	mg/kg	8260B	04/12/13	5
Hexachloro-1,3-butadiene	BDL	0.0057	mg/kg	8260B	04/12/13	5
Isopropylbenzene	BDL	0.0057	mg/kg	8260B	04/12/13	5

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

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Est. 1970

REPORT OF ANALYSIS

Matt Hall, Preston Pattison
 Terracon Consultants - B-Ham AL.
 110 12th Street North
 Birmingham, AL 35203

April 24, 2013

Date Received : April 12, 2013
 Description : Aladdin Cleaners
 Sample ID : DW-4 1-3 FT
 Collected By : Preston Pattison
 Collection Date : 04/03/13 10:05

ESC Sample # : L630300-05

Site ID : BIRMINGHAM, AL

Project # : E1117070

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	BDL	0.0057	mg/kg	8260B	04/12/13	5
2-Butanone (MEK)	BDL	0.057	mg/kg	8260B	04/12/13	5
Methylene Chloride	BDL	0.028	mg/kg	8260B	04/12/13	5
4-Methyl-2-pentanone (MIBK)	BDL	0.057	mg/kg	8260B	04/12/13	5
Methyl tert-butyl ether	BDL	0.0057	mg/kg	8260B	04/12/13	5
Naphthalene	BDL	0.028	mg/kg	8260B	04/12/13	5
n-Propylbenzene	BDL	0.0057	mg/kg	8260B	04/12/13	5
Styrene	BDL	0.0057	mg/kg	8260B	04/12/13	5
1,1,1,2-Tetrachloroethane	BDL	0.0057	mg/kg	8260B	04/12/13	5
1,1,2,2-Tetrachloroethane	BDL	0.0057	mg/kg	8260B	04/12/13	5
1,1,2-Trichlorotrifluoroethane	BDL	0.0057	mg/kg	8260B	04/12/13	5
Tetrachloroethene	BDL	0.0057	mg/kg	8260B	04/12/13	5
Toluene	BDL	0.028	mg/kg	8260B	04/12/13	5
1,2,3-Trichlorobenzene	BDL	0.0057	mg/kg	8260B	04/12/13	5
1,2,4-Trichlorobenzene	BDL	0.0057	mg/kg	8260B	04/12/13	5
1,1,1-Trichloroethane	BDL	0.0057	mg/kg	8260B	04/12/13	5
1,1,2-Trichloroethane	BDL	0.0057	mg/kg	8260B	04/12/13	5
Trichloroethene	BDL	0.0057	mg/kg	8260B	04/12/13	5
Trichlorofluoromethane	BDL	0.028	mg/kg	8260B	04/12/13	5
1,2,3-Trichloropropane	BDL	0.014	mg/kg	8260B	04/12/13	5
1,2,4-Trimethylbenzene	BDL	0.0057	mg/kg	8260B	04/12/13	5
1,2,3-Trimethylbenzene	BDL	0.0057	mg/kg	8260B	04/12/13	5
1,3,5-Trimethylbenzene	BDL	0.0057	mg/kg	8260B	04/12/13	5
Vinyl chloride	BDL	0.0057	mg/kg	8260B	04/12/13	5
Xylenes, Total	BDL	0.017	mg/kg	8260B	04/12/13	5
Surrogate Recovery						
Toluene-d8	101.		% Rec.	8260B	04/12/13	5
Dibromofluoromethane	99.9		% Rec.	8260B	04/12/13	5
4-Bromofluorobenzene	99.8		% Rec.	8260B	04/12/13	5

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

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REPORT OF ANALYSIS

April 24, 2013

Matt Hall, Preston Pattison
 Terracon Consultants - B-Ham AL,
 110 12th Street North
 Birmingham, AL 35203

Date Received : April 12, 2013
 Description : Aladdin Cleaners
 Sample ID : MW-5 8-10 FT
 Collected By : Preston Pattison
 Collection Date : 04/04/13 10:36

ESC Sample # : L630300-06

Site ID : BIRMINGHAM, AL

Project # : E1117070

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	84.6	0.100	%	2540 G-2011	04/17/13	1
Volatile Organics						
Acetone	BDL	0.30	mg/kg	8260B	04/12/13	5
Acrylonitrile	BDL	0.059	mg/kg	8260B	04/12/13	5
Benzene	BDL	0.0059	mg/kg	8260B	04/12/13	5
Bromobenzene	BDL	0.0059	mg/kg	8260B	04/12/13	5
Bromodichloromethane	BDL	0.0059	mg/kg	8260B	04/12/13	5
Bromoform	BDL	0.0059	mg/kg	8260B	04/12/13	5
Bromomethane	BDL	0.030	mg/kg	8260B	04/12/13	5
n-Butylbenzene	BDL	0.0059	mg/kg	8260B	04/12/13	5
sec-Butylbenzene	BDL	0.0059	mg/kg	8260B	04/12/13	5
tert-Butylbenzene	BDL	0.0059	mg/kg	8260B	04/12/13	5
Carbon tetrachloride	BDL	0.0059	mg/kg	8260B	04/12/13	5
Chlorobenzene	BDL	0.0059	mg/kg	8260B	04/12/13	5
Chlorodibromomethane	BDL	0.0059	mg/kg	8260B	04/12/13	5
Chloroethane	BDL	0.030	mg/kg	8260B	04/12/13	5
2-Chloroethyl vinyl ether	BDL	0.30	mg/kg	8260B	04/12/13	5
Chloroform	BDL	0.030	mg/kg	8260B	04/12/13	5
Chloromethane	BDL	0.015	mg/kg	8260B	04/12/13	5
2-Chlorotoluene	BDL	0.0059	mg/kg	8260B	04/12/13	5
4-Chlorotoluene	BDL	0.0059	mg/kg	8260B	04/12/13	5
1,2-Dibromo-3-Chloropropane	BDL	0.030	mg/kg	8260B	04/12/13	5
1,2-Dibromoethane	BDL	0.0059	mg/kg	8260B	04/12/13	5
Dibromomethane	BDL	0.0059	mg/kg	8260B	04/12/13	5
1,2-Dichlorobenzene	BDL	0.0059	mg/kg	8260B	04/12/13	5
1,3-Dichlorobenzene	BDL	0.0059	mg/kg	8260B	04/12/13	5
1,4-Dichlorobenzene	BDL	0.0059	mg/kg	8260B	04/12/13	5
Dichlorodifluoromethane	BDL	0.030	mg/kg	8260B	04/12/13	5
1,1-Dichloroethane	BDL	0.0059	mg/kg	8260B	04/12/13	5
1,2-Dichloroethane	BDL	0.0059	mg/kg	8260B	04/12/13	5
1,1-Dichloroethene	BDL	0.0059	mg/kg	8260B	04/12/13	5
cis-1,2-Dichloroethene	BDL	0.0059	mg/kg	8260B	04/12/13	5
trans-1,2-Dichloroethene	BDL	0.0059	mg/kg	8260B	04/12/13	5
1,2-Dichloropropane	BDL	0.0059	mg/kg	8260B	04/12/13	5
1,1-Dichloropropene	BDL	0.0059	mg/kg	8260B	04/12/13	5
1,3-Dichloropropane	BDL	0.0059	mg/kg	8260B	04/12/13	5
cis-1,3-Dichloropropene	BDL	0.0059	mg/kg	8260B	04/12/13	5
trans-1,3-Dichloropropene	BDL	0.0059	mg/kg	8260B	04/12/13	5
2,2-Dichloropropane	BDL	0.0059	mg/kg	8260B	04/12/13	5
Di-isopropyl ether	BDL	0.0059	mg/kg	8260B	04/12/13	5
Ethylbenzene	BDL	0.0059	mg/kg	8260B	04/12/13	5
Hexachloro-1,3-butadiene	BDL	0.0059	mg/kg	8260B	04/12/13	5
Isopropylbenzene	BDL	0.0059	mg/kg	8260B	04/12/13	5

Results listed are dry weight basis.
 BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit (PQL)
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REPORT OF ANALYSIS

Matt Hall, Preston Pattison
 Terracon Consultants - B-Ham AL.
 110 12th Street North
 Birmingham, AL 35203

April 24, 2013

Date Received : April 12, 2013
 Description : Aladdin Cleaners
 Sample ID : MW-5 8-10 FT
 Collected By : Preston Pattison
 Collection Date : 04/04/13 10:36

ESC Sample # : L630300-06
 Site ID : BIRMINGHAM, AL
 Project # : E1117070

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	BDL	0.0059	mg/kg	8260B	04/12/13	5
2-Butanone (MEK)	BDL	0.059	mg/kg	8260B	04/12/13	5
Methylene Chloride	BDL	0.030	mg/kg	8260B	04/12/13	5
4-Methyl-2-pentanone (MIBK)	BDL	0.059	mg/kg	8260B	04/12/13	5
Methyl tert-butyl ether	BDL	0.0059	mg/kg	8260B	04/12/13	5
Naphthalene	BDL	0.030	mg/kg	8260B	04/12/13	5
n-Propylbenzene	BDL	0.0059	mg/kg	8260B	04/12/13	5
Styrene	BDL	0.0059	mg/kg	8260B	04/12/13	5
1,1,1,2-Tetrachloroethane	BDL	0.0059	mg/kg	8260B	04/12/13	5
1,1,2,2-Tetrachloroethane	BDL	0.0059	mg/kg	8260B	04/12/13	5
1,1,2-Trichlorotrifluoroethane	BDL	0.0059	mg/kg	8260B	04/12/13	5
Tetrachloroethene	BDL	0.0059	mg/kg	8260B	04/12/13	5
Toluene	BDL	0.030	mg/kg	8260B	04/12/13	5
1,2,3-Trichlorobenzene	BDL	0.0059	mg/kg	8260B	04/12/13	5
1,2,4-Trichlorobenzene	BDL	0.0059	mg/kg	8260B	04/12/13	5
1,1,1-Trichloroethane	BDL	0.0059	mg/kg	8260B	04/12/13	5
1,1,2-Trichloroethane	BDL	0.0059	mg/kg	8260B	04/12/13	5
Trichloroethene	BDL	0.0059	mg/kg	8260B	04/12/13	5
Trichlorofluoromethane	BDL	0.030	mg/kg	8260B	04/12/13	5
1,2,3-Trichloropropane	BDL	0.015	mg/kg	8260B	04/12/13	5
1,2,4-Trimethylbenzene	BDL	0.0059	mg/kg	8260B	04/12/13	5
1,2,3-Trimethylbenzene	BDL	0.0059	mg/kg	8260B	04/12/13	5
1,3,5-Trimethylbenzene	BDL	0.0059	mg/kg	8260B	04/12/13	5
Vinyl chloride	BDL	0.0059	mg/kg	8260B	04/12/13	5
Xylenes, Total	BDL	0.018	mg/kg	8260B	04/12/13	5
Surrogate Recovery						
Toluene-d8	103.		% Rec.	8260B	04/12/13	5
Dibromofluoromethane	101.		% Rec.	8260B	04/12/13	5
4-Bromofluorobenzene	102.		% Rec.	8260B	04/12/13	5

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

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REPORT OF ANALYSIS

April 24, 2013

Matt Hall, Preston Pattison
 Terracon Consultants - B-Ham AL.
 110 12th Street North
 Birmingham, AL 35203

Date Received : April 12, 2013
 Description : Aladdin Cleaners
 Sample ID : MW-8 8-10 FT
 Collected By : Preston Pattison
 Collection Date : 04/04/13 12:55

ESC Sample # : L630300-07

Site ID : BIRMINGHAM, AL

Project # : E1117070

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	85.6	0.100	%	2540 G-2011	04/17/13	1
Volatile Organics						
Acetone	BDL	0.29	mg/kg	8260B	04/12/13	5
Acrylonitrile	BDL	0.0058	mg/kg	8260B	04/12/13	5
Benzene	BDL	0.0058	mg/kg	8260B	04/12/13	5
Bromobenzene	BDL	0.0058	mg/kg	8260B	04/12/13	5
Bromodichloromethane	BDL	0.0058	mg/kg	8260B	04/12/13	5
Bromoform	BDL	0.0058	mg/kg	8260B	04/12/13	5
Bromomethane	BDL	0.029	mg/kg	8260B	04/12/13	5
n-Butylbenzene	BDL	0.0058	mg/kg	8260B	04/12/13	5
sec-Butylbenzene	BDL	0.0058	mg/kg	8260B	04/12/13	5
tert-Butylbenzene	BDL	0.0058	mg/kg	8260B	04/12/13	5
Carbon tetrachloride	BDL	0.0058	mg/kg	8260B	04/12/13	5
Chlorobenzene	BDL	0.0058	mg/kg	8260B	04/12/13	5
Chlorodibromomethane	BDL	0.0058	mg/kg	8260B	04/12/13	5
Chloroethane	BDL	0.029	mg/kg	8260B	04/12/13	5
2-Chloroethyl vinyl ether	BDL	0.29	mg/kg	8260B	04/12/13	5
Chloroform	BDL	0.029	mg/kg	8260B	04/12/13	5
Chloromethane	BDL	0.015	mg/kg	8260B	04/12/13	5
2-Chlorotoluene	BDL	0.0058	mg/kg	8260B	04/12/13	5
4-Chlorotoluene	BDL	0.0058	mg/kg	8260B	04/12/13	5
1,2-Dibromo-3-Chloropropane	BDL	0.029	mg/kg	8260B	04/12/13	5
1,2-Dibromoethane	BDL	0.0058	mg/kg	8260B	04/12/13	5
Dibromomethane	BDL	0.0058	mg/kg	8260B	04/12/13	5
1,2-Dichlorobenzene	BDL	0.0058	mg/kg	8260B	04/12/13	5
1,3-Dichlorobenzene	BDL	0.0058	mg/kg	8260B	04/12/13	5
1,4-Dichlorobenzene	BDL	0.0058	mg/kg	8260B	04/12/13	5
Dichlorodifluoromethane	BDL	0.029	mg/kg	8260B	04/12/13	5
1,1-Dichloroethane	BDL	0.0058	mg/kg	8260B	04/12/13	5
1,2-Dichloroethane	BDL	0.0058	mg/kg	8260B	04/12/13	5
1,1-Dichloroethene	BDL	0.0058	mg/kg	8260B	04/12/13	5
cis-1,2-Dichloroethene	BDL	0.0058	mg/kg	8260B	04/12/13	5
trans-1,2-Dichloroethene	BDL	0.0058	mg/kg	8260B	04/12/13	5
1,2-Dichloropropane	BDL	0.0058	mg/kg	8260B	04/12/13	5
1,1-Dichloropropene	BDL	0.0058	mg/kg	8260B	04/12/13	5
1,3-Dichloropropane	BDL	0.0058	mg/kg	8260B	04/12/13	5
cis-1,3-Dichloropropene	BDL	0.0058	mg/kg	8260B	04/12/13	5
trans-1,3-Dichloropropene	BDL	0.0058	mg/kg	8260B	04/12/13	5
2,2-Dichloropropane	BDL	0.0058	mg/kg	8260B	04/12/13	5
Di-isopropyl ether	BDL	0.0058	mg/kg	8260B	04/12/13	5
Ethylbenzene	BDL	0.0058	mg/kg	8260B	04/12/13	5
Hexachloro-1,3-butadiene	BDL	0.0058	mg/kg	8260B	04/12/13	5
Isopropylbenzene	BDL	0.0058	mg/kg	8260B	04/12/13	5

Results listed are dry weight basis.
 BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Hall, Preston Pattison
 Terracon Consultants - B-Ham AL.
 110 12th Street North
 Birmingham, AL 35203

April 24, 2013

Date Received : April 12, 2013
 Description : Aladdin Cleaners
 Sample ID : MW-8 8-10 FT
 Collected By : Preston Pattison
 Collection Date : 04/04/13 12:55

ESC Sample # : L630300-07

Site ID : BIRMINGHAM, AL

Project # : E1117070

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	BDL	0.0058	mg/kg	8260B	04/12/13	5
2-Butanone (MEK)	BDL	0.058	mg/kg	8260B	04/12/13	5
Methylene Chloride	BDL	0.029	mg/kg	8260B	04/12/13	5
4-Methyl-2-pentanone (MIBK)	BDL	0.058	mg/kg	8260B	04/12/13	5
Methyl tert-butyl ether	BDL	0.0058	mg/kg	8260E	04/12/13	5
Naphthalene	BDL	0.029	mg/kg	8260B	04/12/13	5
n-Propylbenzene	BDL	0.0058	mg/kg	8260B	04/12/13	5
Styrene	BDL	0.0058	mg/kg	8260B	04/12/13	5
1,1,1,2-Tetrachloroethane	BDL	0.0058	mg/kg	8260E	04/12/13	5
1,1,2,2-Tetrachloroethane	BDL	0.0058	mg/kg	8260B	04/12/13	5
1,1,2-Trichlorotrifluoroethane	BDL	0.0058	mg/kg	8260B	04/12/13	5
Tetrachloroethene	BDL	0.0058	mg/kg	8260B	04/12/13	5
Toluene	BDL	0.029	mg/kg	8260B	04/12/13	5
1,2,3-Trichlorobenzene	BDL	0.0058	mg/kg	8260B	04/12/13	5
1,2,4-Trichlorobenzene	BDL	0.0058	mg/kg	8260B	04/12/13	5
1,1,1-Trichloroethane	BDL	0.0058	mg/kg	8260B	04/12/13	5
1,1,2-Trichloroethane	BDL	0.0058	mg/kg	8260B	04/12/13	5
Trichloroethene	BDL	0.0058	mg/kg	8260B	04/12/13	5
Trichlorofluoromethane	BDL	0.029	mg/kg	8260B	04/12/13	5
1,2,3-Trichloropropane	BDL	0.015	mg/kg	8260B	04/12/13	5
1,2,4-Trimethylbenzene	BDL	0.0058	mg/kg	8260B	04/12/13	5
1,2,3-Trimethylbenzene	BDL	0.0058	mg/kg	8260B	04/12/13	5
1,3,5-Trimethylbenzene	BDL	0.0058	mg/kg	8260B	04/12/13	5
Vinyl chloride	BDL	0.0058	mg/kg	8260B	04/12/13	5
Xylenes, Total	BDL	0.018	mg/kg	8260B	04/12/13	5
Surrogate Recovery						
Toluene-d8	101.		% Rec.	8260B	04/12/13	5
Dibromofluoromethane	103.		% Rec.	8260B	04/12/13	5
4-Bromofluorobenzene	103.		% Rec.	8260B	04/12/13	5

Results listed are dry weight basis.
 BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit (PQL)
 Note:

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Est. 1970

REPORT OF ANALYSIS

April 24, 2013

Matt Hall, Preston Pattison
 Terracon Consultants - B-Ham AL.
 110 12th Street North
 Birmingham, AL 35203

Date Received : April 12, 2013
 Description : Aladdin Cleaners
 Sample ID : SC-1
 Collected By : Preston Pattison
 Collection Date : 04/09/13 17:30

ESC Sample # : L630300-08
 Site ID : BIRMINGHAM, AL
 Project # : E1117070

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	97.1	0.100	%	2540 G-2011	04/17/13	1
Mercury	BDL	0.020	mg/kg	7471	04/15/13	1
Arsenic	8.4	1.0	mg/kg	6010B	04/24/13	1
Barium	20.	0.26	mg/kg	6010B	04/24/13	1
Cadmium	BDL	0.26	mg/kg	6010B	04/24/13	1
Chromium	20.	0.51	mg/kg	6010B	04/24/13	1
Lead	4.1	1.3	mg/kg	6010B	04/24/13	5
Selenium	1.3	1.0	mg/kg	6010B	04/24/13	1
Silver	BDL	2.6	mg/kg	6010B	04/24/13	5
Volatile Organics						
Acetone	BDL	0.26	mg/kg	8260B	04/12/13	5
Acrylonitrile	BDL	0.051	mg/kg	8260B	04/12/13	5
Benzene	BDL	0.0051	mg/kg	8260B	04/12/13	5
Bromobenzene	BDL	0.0051	mg/kg	8260B	04/12/13	5
Bromodichloromethane	BDL	0.0051	mg/kg	8260B	04/12/13	5
Bromoform	BDL	0.0051	mg/kg	8260B	04/12/13	5
Bromomethane	BDL	0.026	mg/kg	8260B	04/12/13	5
n-Butylbenzene	BDL	0.0051	mg/kg	8260B	04/12/13	5
sec-Butylbenzene	BDL	0.0051	mg/kg	8260B	04/12/13	5
tert-Butylbenzene	BDL	0.0051	mg/kg	8260B	04/12/13	5
Carbon tetrachloride	BDL	0.0051	mg/kg	8260B	04/12/13	5
Chlorobenzene	BDL	0.0051	mg/kg	8260B	04/12/13	5
Chlorodibromomethane	BDL	0.0051	mg/kg	8260B	04/12/13	5
Chloroethane	BDL	0.026	mg/kg	8260B	04/12/13	5
2-Chloroethyl vinyl ether	BDL	0.26	mg/kg	8260B	04/12/13	5
Chloroform	BDL	0.026	mg/kg	8260B	04/12/13	5
Chloromethane	BDL	0.013	mg/kg	8260B	04/12/13	5
2-Chlorotoluene	BDL	0.0051	mg/kg	8260B	04/12/13	5
4-Chlorotoluene	BDL	0.0051	mg/kg	8260B	04/12/13	5
1,2-Dibromo-3-Chloropropane	BDL	0.026	mg/kg	8260B	04/12/13	5
1,2-Dibromoethane	BDL	0.0051	mg/kg	8260B	04/12/13	5
Dibromomethane	BDL	0.0051	mg/kg	8260B	04/12/13	5
1,2-Dichlorobenzene	BDL	0.0051	mg/kg	8260B	04/12/13	5
1,3-Dichlorobenzene	BDL	0.0051	mg/kg	8260B	04/12/13	5
1,4-Dichlorobenzene	BDL	0.0051	mg/kg	8260B	04/12/13	5
Dichlorodifluoromethane	BDL	0.026	mg/kg	8260B	04/12/13	5
1,1-Dichloroethane	BDL	0.0051	mg/kg	8260B	04/12/13	5
1,2-Dichloroethane	BDL	0.0051	mg/kg	8260B	04/12/13	5
1,1-Dichloroethene	BDL	0.0051	mg/kg	8260B	04/12/13	5
cis-1,2-Dichloroethene	BDL	0.0051	mg/kg	8260B	04/12/13	5
trans-1,2-Dichloroethene	BDL	0.0051	mg/kg	8260B	04/12/13	5

Results listed are dry weight basis.
 BDL - Below Detection Limit
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REPORT OF ANALYSIS

Matt Hall, Preston Pattison
 Terracon Consultants - B-Ham AL.
 110 12th Street North
 Birmingham, AL 35203

April 24, 2013

Date Received : April 12, 2013
 Description : Aladdin Cleaners
 Sample ID : SC-1
 Collected By : Preston Pattison
 Collection Date : 04/09/13 17:30

ESC Sample # : L630300-08
 Site ID : BIRMINGHAM, AL
 Project # : E1117070

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
1,2-Dichloropropane	BDL	0.0051	mg/kg	8260B	04/12/13	5
1,1-Dichloropropene	BDL	0.0051	mg/kg	8260B	04/12/13	5
1,3-Dichloropropane	BDL	0.0051	mg/kg	8260B	04/12/13	5
cis-1,3-Dichloropropene	BDL	0.0051	mg/kg	8260B	04/12/13	5
trans-1,3-Dichloropropene	BDL	0.0051	mg/kg	8260B	04/12/13	5
2,2-Dichloropropane	BDL	0.0051	mg/kg	8260B	04/12/13	5
Di-isopropyl ether	BDL	0.0051	mg/kg	8260B	04/12/13	5
Ethylbenzene	BDL	0.0051	mg/kg	8260B	04/12/13	5
Hexachloro-1,3-butadiene	BDL	0.0051	mg/kg	8260B	04/12/13	5
Isopropylbenzene	BDL	0.0051	mg/kg	8260B	04/12/13	5
p-Isopropyltoluene	BDL	0.0051	mg/kg	8260B	04/12/13	5
2-Butanone (MEK)	BDL	0.051	mg/kg	8260B	04/12/13	5
Methylene Chloride	BDL	0.026	mg/kg	8260B	04/12/13	5
4-Methyl-2-pentanone (MIBK)	BDL	0.051	mg/kg	8260B	04/12/13	5
Methyl tert-butyl ether	BDL	0.0051	mg/kg	8260B	04/12/13	5
Naphthalene	BDL	0.026	mg/kg	8260B	04/12/13	5
n-Propylbenzene	BDL	0.0051	mg/kg	8260B	04/12/13	5
Styrene	BDL	0.0051	mg/kg	8260B	04/12/13	5
1,1,1,2-Tetrachloroethane	BDL	0.0051	mg/kg	8260B	04/12/13	5
1,1,2,2-Tetrachloroethane	BDL	0.0051	mg/kg	8260B	04/12/13	5
1,1,2-Trichlorotrifluoroethane	BDL	0.0051	mg/kg	8260B	04/12/13	5
Tetrachloroethene	BDL	0.0051	mg/kg	8260B	04/12/13	5
Toluene	BDL	0.026	mg/kg	8260B	04/12/13	5
1,2,3-Trichlorobenzene	BDL	0.0051	mg/kg	8260B	04/12/13	5
1,2,4-Trichlorobenzene	BDL	0.0051	mg/kg	8260B	04/12/13	5
1,1,1-Trichloroethane	BDL	0.0051	mg/kg	8260B	04/12/13	5
1,1,2-Trichloroethane	BDL	0.0051	mg/kg	8260B	04/12/13	5
Trichloroethene	BDL	0.0051	mg/kg	8260B	04/12/13	5
Trichlorofluoromethane	BDL	0.026	mg/kg	8260B	04/12/13	5
1,2,3-Trichloropropane	BDL	0.013	mg/kg	8260B	04/12/13	5
1,2,4-Trimethylbenzene	BDL	0.0051	mg/kg	8260B	04/12/13	5
1,2,3-Trimethylbenzene	BDL	0.0051	mg/kg	8260B	04/12/13	5
1,3,5-Trimethylbenzene	BDL	0.0051	mg/kg	8260B	04/12/13	5
Vinyl chloride	BDL	0.0051	mg/kg	8260B	04/12/13	5
Xylenes, Total	BDL	0.015	mg/kg	8260B	04/12/13	5
Surrogate Recovery						
Toluene-d8	100.		Rec.	8260B	04/12/13	5
Dibromofluoromethane	99.0		Rec.	8260B	04/12/13	5
4-Bromofluorobenzene	99.9		Rec.	8260B	04/12/13	5

Results listed are dry weight basis.
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 Det. Limit - Practical Quantitation Limit (PQL)
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REPORT OF ANALYSIS

Matt Hall, Preston Pattison
 Terracon Consultants - B-Ham AL.
 110 12th Street North
 Birmingham, AL 35203

April 24, 2013

Date Received : April 12, 2013
 Description : Aladdin Cleaners
 Sample ID : TRIP BLANK
 Collected By : Preston Pattison
 Collection Date : 04/09/13 00:00

ESC Sample # : I630300-09
 Site ID : BIRMINGHAM, AL
 Project # : E1117070

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	0.050	mg/l	8260B	04/13/13	1
Acrolein	BDL	0.050	mg/l	8260B	04/13/13	1
Acrylonitrile	BDL	0.010	mg/l	8260B	04/13/13	1
Benzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Bromobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Bromodichloromethane	BDL	0.0010	mg/l	8260B	04/13/13	1
Bromoform	BDL	0.0010	mg/l	8260B	04/13/13	1
Bromomethane	BDL	0.0050	mg/l	8260B	04/13/13	1
n-Butylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
sec-Butylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
tert-Butylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Carbon tetrachloride	BDL	0.0010	mg/l	8260B	04/13/13	1
Chlorobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Chlorodibromomethane	BDL	0.0010	mg/l	8260B	04/13/13	1
Chloroethane	BDL	0.0050	mg/l	8260B	04/13/13	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	8260B	04/13/13	1
Chloroform	BDL	0.0050	mg/l	8260B	04/13/13	1
Chloromethane	BDL	0.0025	mg/l	8260B	04/13/13	1
2-Chlorotoluene	BDL	0.0010	mg/l	8260B	04/13/13	1
4-Chlorotoluene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,2-Dibromo-3-Chloropropane	BDL	0.0050	mg/l	8260B	04/13/13	1
1,2-Dibromoethane	BDL	0.0010	mg/l	8260B	04/13/13	1
Dibromomethane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Dichlorodifluoromethane	BDL	0.0050	mg/l	8260B	04/13/13	1
1,1-Dichloroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,2-Dichloroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1-Dichloroethene	BDL	0.0010	mg/l	8260B	04/13/13	1
cis-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	04/13/13	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,2-Dichloropropane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1-Dichloropropene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	04/13/13	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	04/13/13	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	04/13/13	1
2,2-Dichloropropane	BDL	0.0010	mg/l	8260B	04/13/13	1
Di-isopropyl ether	BDL	0.0010	mg/l	8260B	04/13/13	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Hexachloro-1,3-butadiene	BDL	0.0010	mg/l	8260B	04/13/13	1
Isopropylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
p-Isopropyltoluene	BDL	0.0010	mg/l	8260B	04/13/13	1

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit(PQL)



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REPORT OF ANALYSIS

Matt Hall, Preston Pattison
Terracon Consultants - B-Ham AL.
110 12th Street North
Birmingham, AL 35203

April 24, 2013

Date Received : April 12, 2013
Description : Aladdin Cleaners
Sample ID : TRIP BLANK
Collected By : Preston Pattison
Collection Date : 04/09/13 00:00

ESC Sample # : L630300-09
Site ID : BIRMINGHAM, AL
Project # : E1117070

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2-Butanone (MEK)	BDL	0.010	mg/l	8260B	04/13/13	1
Methylene Chloride	BDL	0.0050	mg/l	8260B	04/13/13	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/l	8260B	04/13/13	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	04/13/13	1
Naphthalene	BDL	0.0050	mg/l	8260B	04/13/13	1
n-Propylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Styrene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
Tetrachloroethene	BDL	0.0010	mg/l	8260B	04/13/13	1
Toluene	BDL	0.0050	mg/l	8260B	04/13/13	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1,1-Trichloroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1,2-Trichloroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
Trichloroethene	BDL	0.0010	mg/l	8260B	04/13/13	1
Trichlorofluoromethane	BDL	0.0050	mg/l	8260B	04/13/13	1
1,2,3-Trichloropropane	BDL	0.0025	mg/l	8260B	04/13/13	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Vinyl chloride	BDL	0.0010	mg/l	8260B	04/13/13	1
Xylenes, Total	BDL	0.0030	mg/l	8260B	04/13/13	1
Surrogate Recovery						
Toluene-d8	103.		Rec.	8260B	04/13/13	1
Dibromofluoromethane	103.		Rec.	8260B	04/13/13	1
4-Bromofluorobenzene	100.		Rec.	8260B	04/13/13	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit (PQL)

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REPORT OF ANALYSIS

Matt Hall, Preston Pattison
 Terracon Consultants - B-Ham AL.
 110 12th Street North
 Birmingham, AL 35203

April 24, 2013

Date Received : April 12, 2013
 Description : Aladdin Cleaners
 Sample ID : DW-2
 Collected By : Preston Pattison
 Collection Date : 04/10/13 17:45

ESC Sample # : L630300-10
 Site ID : BIRMINGHAM, AL
 Project # : E1117070

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	0.050	mg/l	8260B	04/13/13	1
Acrolein	BDL	0.050	mg/l	8260B	04/13/13	1
Acrylonitrile	BDL	0.010	mg/l	8260B	04/13/13	1
Benzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Bromobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Bromodichloromethane	BDL	0.0010	mg/l	8260B	04/13/13	1
Bromoform	BDL	0.0010	mg/l	8260B	04/13/13	1
Bromomethane	BDL	0.0050	mg/l	8260B	04/13/13	1
n-Butylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
sec-Butylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
tert-Butylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Carbon tetrachloride	BDL	0.0010	mg/l	8260B	04/13/13	1
Chlorobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Chlorodibromomethane	BDL	0.0010	mg/l	8260B	04/13/13	1
Chloroethane	BDL	0.0050	mg/l	8260B	04/13/13	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	8260B	04/13/13	1
Chloroform	BDL	0.0050	mg/l	8260B	04/13/13	1
Chloromethane	BDL	0.0025	mg/l	8260B	04/13/13	1
2-Chlorotoluene	BDL	0.0010	mg/l	8260B	04/13/13	1
4-Chlorotoluene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,2-Dibromo-3-Chloropropane	BDL	0.0050	mg/l	8260B	04/13/13	1
1,2-Dibromoethane	BDL	0.0010	mg/l	8260B	04/13/13	1
Dibromomethane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Dichlorodifluoromethane	BDL	0.0050	mg/l	8260B	04/13/13	1
1,1-Dichloroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,2-Dichloroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1-Dichloroethene	BDL	0.0010	mg/l	8260B	04/13/13	1
cis-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	04/13/13	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,2-Dichloropropane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1-Dichloropropene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,3-Dichloropropane	BDL	0.0010	mg/l	8260B	04/13/13	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	04/13/13	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	04/13/13	1
2,2-Dichloropropane	BDL	0.0010	mg/l	8260B	04/13/13	1
Di-isopropyl ether	BDL	0.0010	mg/l	8260B	04/13/13	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Hexachloro-1,3-butadiene	BDL	0.0010	mg/l	8260B	04/13/13	1
Isopropylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
p-Isopropyltoluene	BDL	0.0010	mg/l	8260B	04/13/13	1

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit (PQL)



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REPORT OF ANALYSIS

Matt Hall, Preston Pattison
 Terracon Consultants - B-Ham AL.
 110 12th Street North
 Birmingham, AL 35203

April 24, 2013

Date Received : April 12, 2013
 Description : Aladdin Cleaners
 Sample ID : DW-2
 Collected By : Preston Pattison
 Collection Date : 04/10/13 17:45

ESC Sample # : L630300-10

Site ID : BIRMINGHAM, AL

Project # : E1117070

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2-Butanone (MEK)	BDL	0.010	mg/l	8260B	04/13/13	1
Methylene Chloride	BDL	0.0050	mg/l	8260B	04/13/13	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/l	8260B	04/13/13	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	04/13/13	1
Naphthalene	BDL	0.0050	mg/l	8260B	04/13/13	1
n-Propylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Styrene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1,1,2-Tetrachloroethane	EDL	0.0010	mg/l	8260B	04/13/13	1
1,1,2,2-Tetrachloroethane	EDL	0.0010	mg/l	8260B	04/13/13	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
Tetrachloroethene	BDL	0.0010	mg/l	8260B	04/13/13	1
Toluene	BDL	0.0050	mg/l	8260B	04/13/13	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1,1-Trichloroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1,2-Trichloroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
Trichloroethene	BDL	0.0010	mg/l	8260B	04/13/13	1
Trichlorofluoromethane	BDL	0.0050	mg/l	8260B	04/13/13	1
1,2,3-Trichloropropane	BDL	0.0025	mg/l	8260B	04/13/13	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Vinyl chloride	BDL	0.0010	mg/l	8260B	04/13/13	1
Xylenes, Total	BDL	0.0030	mg/l	8260B	04/13/13	1
Surrogate Recovery						
Toluene-d8	102.		% Rec.	8260B	04/13/13	1
Dibromofluoromethane	98.6		% Rec.	8260B	04/13/13	1
4-Bromofluorobenzene	97.0		% Rec.	8260B	04/13/13	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

The reported analytical results relate only to the sample submitted.

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Est. 1970

REPORT OF ANALYSIS

April 24, 2013

Matt Hall, Preston Pattison
 Terracon Consultants - B-Ham AL.
 110 12th Street North
 Birmingham, AL 35203

ESC Sample # : L630300-11

Date Received : April 12, 2013
 Description : Aladdin Cleaners

Site ID : BIRMINGHAM, AL

Sample ID : DW-1-D

Project # : E1117070

Collected By : Preston Pattison
 Collection Date : 04/10/13 18:15

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	0.33	0.050	mg/l	8260B	04/13/13	1
Acrolein	BDL	0.050	mg/l	8260B	04/13/13	1
Acrylonitrile	BDL	0.010	mg/l	8260B	04/13/13	1
Benzene	0.0012	0.0010	mg/l	8260B	04/13/13	1
Bromobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Bromodichloromethane	BDL	0.0010	mg/l	8260B	04/13/13	1
Bromoform	BDL	0.0010	mg/l	8260B	04/13/13	1
Bromomethane	BDL	0.0050	mg/l	8260B	04/13/13	1
n-Butylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
sec-Butylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
tert-Butylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Carbon tetrachloride	BDL	0.0010	mg/l	8260B	04/13/13	1
Chlorobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Chlorodibromomethane	BDL	0.0010	mg/l	8260B	04/13/13	1
Chloroethane	BDL	0.0050	mg/l	8260B	04/13/13	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	8260B	04/13/13	1
Chloroform	BDL	0.0050	mg/l	8260B	04/13/13	1
Chloromethane	BDL	0.0025	mg/l	8260B	04/13/13	1
2-Chlorotoluene	BDL	0.0010	mg/l	8260B	04/13/13	1
4-Chlorotoluene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,2-Dibromo-3-Chloropropane	BDL	0.0050	mg/l	8260B	04/13/13	1
1,2-Dibromoethane	BDL	0.0010	mg/l	8260B	04/13/13	1
Dibromomethane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Dichlorodifluoromethane	BDL	0.0050	mg/l	8260B	04/13/13	1
1,1-Dichloroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,2-Dichloroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1-Dichloroethene	BDL	0.0010	mg/l	8260B	04/13/13	1
cis-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	04/13/13	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,2-Dichloropropane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1-Dichloropropene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,3-Dichloropropane	BDL	0.0010	mg/l	8260B	04/13/13	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	04/13/13	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	04/13/13	1
2,2-Dichloropropane	BDL	0.0010	mg/l	8260B	04/13/13	1
Di-isopropyl ether	BDL	0.0010	mg/l	8260B	04/13/13	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Hexachloro-1,3-butadiene	BDL	0.0010	mg/l	8260B	04/13/13	1
Isopropylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
p-Isopropyltoluene	BDL	0.0010	mg/l	8260B	04/13/13	1

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit (PQL)



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REPORT OF ANALYSIS

Matt Hall, Preston Pattison
Terracon Consultants - B-Ham AL.
110 12th Street North
Birmingham, AL 35203

April 24, 2013

Date Received : April 12, 2013
Description : Aladdin Cleaners

ESC Sample # : I630300-11

Sample ID : DW-1-D

Site ID : BIRMINGHAM, AL

Collected By : Preston Pattison
Collection Date : 04/10/13 18:15

Project # : E1117070

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2-Butanone (MEK)	BDL	0.010	mg/l	8260B	04/13/13	1
Methylene Chloride	BDL	0.0050	mg/l	8260B	04/13/13	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/l	8260B	04/13/13	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	04/13/13	1
Naphthalene	BDL	0.0050	mg/l	8260B	04/13/13	1
n-Propylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Styrene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
Tetrachloroethene	0.0033	0.0010	mg/l	8260B	04/13/13	1
Toluene	BDL	0.0050	mg/l	8260B	04/13/13	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1,1-Trichloroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1,2-Trichloroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
Trichloroethene	0.0011	0.0010	mg/l	8260B	04/13/13	1
Trichlorofluoromethane	BDL	0.0050	mg/l	8260B	04/13/13	1
1,2,3-Trichloropropane	BDL	0.0025	mg/l	8260B	04/13/13	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Vinyl chloride	BDL	0.0010	mg/l	8260B	04/13/13	1
Xylenes, Total	BDL	0.0030	mg/l	8260B	04/13/13	1
Surrogate Recovery						
Toluene-d8	103.		Rec.	8260B	04/13/13	1
Dibromofluoromethane	101.		Rec.	8260B	04/13/13	1
4-Bromofluorobenzene	101.		Rec.	8260B	04/13/13	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

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REPORT OF ANALYSIS

Matt Hall, Preston Pattison
 Terracon Consultants - B-Ham AL.
 110 12th Street North
 Birmingham, AL 35203

April 24, 2013

Date Received : April 12, 2013
 Description : Aladdin Cleaners

ESC Sample # : L630300-12

Sample ID : MW-8

Site ID : BIRMINGHAM, AL

Collected By : Preston Pattison
 Collection Date : 04/10/13 16:35

Project # : E1117070

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	0.050	mg/l	8260B	04/13/13	1
Acrolein	BDL	0.050	mg/l	8260B	04/13/13	1
Acrylonitrile	BDL	0.010	mg/l	8260B	04/13/13	1
Benzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Bromobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Bromodichloromethane	BDL	0.0010	mg/l	8260B	04/13/13	1
Bromoform	BDL	0.0010	mg/l	8260B	04/13/13	1
Bromomethane	BDL	0.0050	mg/l	8260B	04/13/13	1
n-Butylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
sec-Butylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
tert-Butylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Carbon tetrachloride	BDL	0.0010	mg/l	8260B	04/13/13	1
Chlorobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Chlorodibromomethane	BDL	0.0010	mg/l	8260B	04/13/13	1
Chloroethane	BDL	0.0050	mg/l	8260B	04/13/13	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	8260B	04/13/13	1
Chloroform	BDL	0.0050	mg/l	8260B	04/13/13	1
Chloromethane	BDL	0.0025	mg/l	8260B	04/13/13	1
2-Chlorotoluene	BDL	0.0010	mg/l	8260B	04/13/13	1
4-Chlorotoluene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,2-Dibromo-3-Chloropropane	BDL	0.0050	mg/l	8260B	04/13/13	1
1,2-Dibromoethane	BDL	0.0010	mg/l	8260B	04/13/13	1
Dibromomethane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Dichlorodifluoromethane	BDL	0.0050	mg/l	8260B	04/13/13	1
1,1-Dichloroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,2-Dichloroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1-Dichloroethene	BDL	0.0010	mg/l	8260B	04/13/13	1
cis-1,2-Dichloroethene	0.0046	0.0010	mg/l	8260B	04/13/13	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,2-Dichloropropane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1-Dichloropropene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,3-Dichloropropane	BDL	0.0010	mg/l	8260B	04/13/13	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	04/13/13	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	04/13/13	1
2,2-Dichloropropane	BDL	0.0010	mg/l	8260B	04/13/13	1
Di-isopropyl ether	BDL	0.0010	mg/l	8260B	04/13/13	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Hexachloro-1,3-butadiene	BDL	0.0010	mg/l	8260B	04/13/13	1
Isopropylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
p-Isopropyltoluene	BDL	0.0010	mg/l	8260B	04/13/13	1

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit (PQL)



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REPORT OF ANALYSIS

Matt Hall, Preston Pattison
 Terracon Consultants - B-Ham AL.
 110 12th Street North
 Birmingham, AL 35203

April 24, 2013

Date Received : April 12, 2013
 Description : Aladdin Cleaners
 Sample ID : MW-8
 Collected By : Preston Pattison
 Collection Date : 04/10/13 16:35

ESC Sample # : L630300-12
 Site ID : BIRMINGHAM, AL
 Project # : E1117070

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2-Butanone (MEK)	BDL	0.010	mg/l	8260B	04/13/13	1
Methylene Chloride	BDL	0.0050	mg/l	8260B	04/13/13	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/l	8260B	04/13/13	1
Methyl tert-butyl ether	0.0010	0.0010	mg/l	8260B	04/13/13	1
Naphthalene	BDL	0.0050	mg/l	8260B	04/13/13	1
n-Propylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Styrene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
Tetrachloroethene	0.0019	0.0010	mg/l	8260B	04/13/13	1
Toluene	BDL	0.0050	mg/l	8260B	04/13/13	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1,1-Trichloroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1,2-Trichloroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
Trichloroethene	0.0012	0.0010	mg/l	8260B	04/13/13	1
Trichlorofluoromethane	BDL	0.0050	mg/l	8260B	04/13/13	1
1,2,3-Trichloropropane	BDL	0.0025	mg/l	8260B	04/13/13	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Vinyl chloride	BDL	0.0010	mg/l	8260B	04/13/13	1
Xylenes, Total	BDL	0.0030	mg/l	8260B	04/13/13	1
Surrogate Recovery						
Toluene-d8	104.		% Rec.	8260B	04/13/13	1
Dibromofluoromethane	101.		% Rec.	8260B	04/13/13	1
4-Bromofluorobenzene	98.6		% Rec.	8260B	04/13/13	1

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit (PQL)

Note:
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 110 12th Street North
 Birmingham, AL 35203

April 24, 2013

Date Received : April 12, 2013
 Description : Aladdin Cleaners

ESC Sample # : L630300-13

Sample ID : DW-3

Site ID : BIRMINGHAM, AL

Collected By : Preston Pattison
 Collection Date : 04/10/13 17:10

Project # : E1117070

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	0.050	mg/l	8260B	04/13/13	1
Acrolein	BDL	0.050	mg/l	8260B	04/13/13	1
Acrylonitrile	BDL	0.010	mg/l	8260B	04/13/13	1
Benzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Bromobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Bromodichloromethane	BDL	0.0010	mg/l	8260B	04/13/13	1
Bromoform	BDL	0.0010	mg/l	8260B	04/13/13	1
Bromomethane	BDL	0.0050	mg/l	8260B	04/13/13	1
n-Butylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
sec-Butylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
tert-Butylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Carbon tetrachloride	BDL	0.0010	mg/l	8260B	04/13/13	1
Chlorobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Chlorodibromomethane	BDL	0.0010	mg/l	8260B	04/13/13	1
Chloroethane	BDL	0.0050	mg/l	8260B	04/13/13	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	8260B	04/13/13	1
Chloroform	BDL	0.0050	mg/l	8260B	04/13/13	1
Chloromethane	BDL	0.0025	mg/l	8260B	04/13/13	1
2-Chlorotoluene	BDL	0.0010	mg/l	8260B	04/13/13	1
4-Chlorotoluene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,2-Dibromo-3-Chloropropane	BDL	0.0050	mg/l	8260B	04/13/13	1
1,2-Dibromoethane	BDL	0.0010	mg/l	8260B	04/13/13	1
Dibromomethane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Dichlorodifluoromethane	BDL	0.0050	mg/l	8260B	04/13/13	1
1,1-Dichloroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,2-Dichloroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1-Dichloroethene	BDL	0.0010	mg/l	8260B	04/13/13	1
cis-1,2-Dichloroethene	0.0025	0.0010	mg/l	8260B	04/13/13	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,2-Dichloropropane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1-Dichloropropene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,3-Dichloropropane	BDL	0.0010	mg/l	8260B	04/13/13	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	04/13/13	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	04/13/13	1
2,2-Dichloropropane	BDL	0.0010	mg/l	8260B	04/13/13	1
Di-isopropyl ether	BDL	0.0010	mg/l	8260B	04/13/13	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Hexachloro-1,3-butadiene	BDL	0.0010	mg/l	8260B	04/13/13	1
Isopropylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
p-Isopropyltoluene	BDL	0.0010	mg/l	8260B	04/13/13	1

EDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit (PQL)



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REPORT OF ANALYSIS

April 24, 2013

Matt Hall, Preston Pattison
 Terracon Consultants - B-Ham AL.
 110 12th Street North
 Birmingham, AL 35203

Date Received : April 12, 2013
 Description : Aladdin Cleaners
 Sample ID : DW-3
 Collected By : Preston Pattison
 Collection Date : 04/10/13 17:10

ESC Sample # : L630300-13

Site ID : BIRMINGHAM, AL

Project # : E1117070

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2-Butanone (MEK)	BDL	0.010	mg/l	8260B	04/13/13	1
Methylene Chloride	BDL	0.0050	mg/l	8260B	04/13/13	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/l	8260B	04/13/13	1
Methyl tert-butyl ether	0.0021	0.0010	mg/l	8260B	04/13/13	1
Naphthalene	BDL	0.0050	mg/l	8260B	04/13/13	1
n-Propylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Styrene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
Tetrachloroethene	0.0032	0.0010	mg/l	8260B	04/13/13	1
Toluene	BDL	0.0050	mg/l	8260B	04/13/13	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1,1-Trichloroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1,2-Trichloroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
Trichloroethene	BDL	0.0010	mg/l	8260B	04/13/13	1
Trichlorofluoromethane	BDL	0.0050	mg/l	8260B	04/13/13	1
1,2,3-Trichloropropane	BDL	0.0025	mg/l	8260B	04/13/13	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Vinyl chloride	BDL	0.0010	mg/l	8260B	04/13/13	1
Xylenes, Total	BDL	0.0030	mg/l	8260B	04/13/13	1
Surrogate Recovery						
Toluene-d8	104.		Rec.	8260B	04/13/13	1
Dibromofluoromethane	102.		Rec.	8260B	04/13/13	1
4-Bromofluorobenzene	97.6		Rec.	8260B	04/13/13	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

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REPORT OF ANALYSIS

Matt Hall, Preston Pattison
Terracon Consultants - B-Ham AL.
110 12th Street North
Birmingham, AL 35203

April 24, 2013

Date Received : April 12, 2013
Description : Aladdin Cleaners
Sample ID : MW-5
Collected By : Preston Pattison
Collection Date : 04/10/13 17:42

ESC Sample # : L630300-14

Site ID : BIRMINGHAM, AL

Project # : E1117070

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	0.050	mg/l	8260B	04/13/13	1
Acrolein	BDL	0.050	mg/l	8260B	04/13/13	1
Acrylonitrile	BDL	0.010	mg/l	8260B	04/13/13	1
Benzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Bromobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Bromodichloromethane	BDL	0.0010	mg/l	8260B	04/13/13	1
Bromoform	BDL	0.0010	mg/l	8260B	04/13/13	1
Bromomethane	BDL	0.0050	mg/l	8260B	04/13/13	1
n-Butylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
sec-Butylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
tert-Butylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Carbon tetrachloride	BDL	0.0010	mg/l	8260B	04/13/13	1
Chlorobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Chlorodibromomethane	BDL	0.0010	mg/l	8260B	04/13/13	1
Chloroethane	BDL	0.0050	mg/l	8260B	04/13/13	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	8260B	04/13/13	1
Chloroform	BDL	0.0050	mg/l	8260B	04/13/13	1
Chloromethane	BDL	0.0025	mg/l	8260B	04/13/13	1
2-Chlorotoluene	BDL	0.0010	mg/l	8260B	04/13/13	1
4-Chlorotoluene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,2-Dibromo-3-Chloropropane	BDL	0.0050	mg/l	8260B	04/13/13	1
1,2-Dibromoethane	BDL	0.0010	mg/l	8260B	04/13/13	1
Dibromomethane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Dichlorodifluoromethane	BDL	0.0050	mg/l	8260B	04/13/13	1
1,1-Dichloroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,2-Dichloroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1-Dichloroethene	BDL	0.0010	mg/l	8260B	04/13/13	1
cis-1,2-Dichloroethene	0.0042	0.0010	mg/l	8260B	04/13/13	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,2-Dichloropropane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1-Dichloropropene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,3-Dichloropropane	BDL	0.0010	mg/l	8260B	04/13/13	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	04/13/13	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	04/13/13	1
2,2-Dichloropropane	BDL	0.0010	mg/l	8260B	04/13/13	1
Di-isopropyl ether	BDL	0.0010	mg/l	8260B	04/13/13	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Hexachloro-1,3-butadiene	BDL	0.0010	mg/l	8260B	04/13/13	1
Isopropylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
p-Isopropyltoluene	BDL	0.0010	mg/l	8260B	04/13/13	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit (PQL)



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REPORT OF ANALYSIS

Matt Hall, Preston Pattison
Terracon Consultants - B-Ham AL.
110 12th Street North
Birmingham, AL 35203

April 24, 2013

Date Received : April 12, 2013
Description : Aladdin Cleaners
Sample ID : MW-5
Collected By : Preston Pattison
Collection Date : 04/10/13 17:42

ESC Sample # : L630300-14

Site ID : BIRMINGHAM, AL

Project # : E1117070

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2-Butanone (MEK)	BDL	0.010	mg/l	8260B	04/13/13	1
Methylene Chloride	BDL	0.0050	mg/l	8260B	04/13/13	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/l	8260B	04/13/13	1
Methyl tert-butyl ether	EDL	0.0010	mg/l	8260B	04/13/13	1
Naphthalene	BDL	0.0050	mg/l	8260B	04/13/13	1
n-Propylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Styrene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
Tetrachloroethene	BDL	0.0010	mg/l	8260B	04/13/13	1
Toluene	BDL	0.0050	mg/l	8260B	04/13/13	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1,1-Trichloroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1,2-Trichloroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
Trichloroethene	BDL	0.0010	mg/l	8260B	04/13/13	1
Trichlorofluoromethane	BDL	0.0050	mg/l	8260B	04/13/13	1
1,2,3-Trichloropropane	BDL	0.0025	mg/l	8260B	04/13/13	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Vinyl chloride	BDL	0.0010	mg/l	8260B	04/13/13	1
Xylenes, Total	BDL	0.0030	mg/l	8260B	04/13/13	1
Surrogate Recovery						
Toluene-d8	102.		Rec.	8260B	04/13/13	1
Dibromofluoromethane	102.		Rec.	8260B	04/13/13	1
4-Bromofluorobenzene	96.2		Rec.	8260B	04/13/13	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

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REPORT OF ANALYSIS

Matt Hall, Preston Pattison
Terracon Consultants - B-Ham AL.
110 12th Street North
Birmingham, AL 35203

April 24, 2013

Date Received : April 12, 2013
Description : Aladdin Cleaners

Sample ID : MW-4

Collected By : Preston Pattison
Collection Date : 04/09/13 08:20

ESC Sample # : I630300-15

Site ID : BIRMINGHAM, AL

Project # : E1117070

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	0.050	mg/l	8260B	04/13/13	1
Acrolein	BDL	0.050	mg/l	8260B	04/13/13	1
Acrylonitrile	BDL	0.010	mg/l	8260B	04/13/13	1
Benzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Bromobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Bromodichloromethane	BDL	0.0010	mg/l	8260B	04/13/13	1
Bromoform	BDL	0.0010	mg/l	8260B	04/13/13	1
Bromomethane	BDL	0.0050	mg/l	8260B	04/13/13	1
n-Butylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
sec-Butylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
tert-Butylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Carbon tetrachloride	BDL	0.0010	mg/l	8260B	04/13/13	1
Chlorobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Chlorodibromomethane	BDL	0.0010	mg/l	8260B	04/13/13	1
Chloroethane	BDL	0.0050	mg/l	8260B	04/13/13	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	8260B	04/13/13	1
Chloroform	BDL	0.0050	mg/l	8260B	04/13/13	1
Chloromethane	BDL	0.0025	mg/l	8260B	04/13/13	1
2-Chlorotoluene	BDL	0.0010	mg/l	8260B	04/13/13	1
4-Chlorotoluene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,2-Dibromo-3-Chloropropane	BDL	0.0050	mg/l	8260B	04/13/13	1
1,2-Dibromoethane	BDL	0.0010	mg/l	8260B	04/13/13	1
Dibromomethane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Dichlorodifluoromethane	BDL	0.0050	mg/l	8260B	04/13/13	1
1,1-Dichloroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,2-Dichloroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1-Dichloroethene	BDL	0.0010	mg/l	8260B	04/13/13	1
cis-1,2-Dichloroethene	0.0024	0.0010	mg/l	8260B	04/13/13	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,2-Dichloropropane	BDL	0.0010	mg/l	8260E	04/13/13	1
1,1-Dichloropropene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,3-Dichloropropane	BDL	0.0010	mg/l	8260B	04/13/13	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	04/13/13	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	04/13/13	1
2,2-Dichloropropane	BDL	0.0010	mg/l	8260B	04/13/13	1
Di-isopropyl ether	BDL	0.0010	mg/l	8260B	04/13/13	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Hexachloro-1,3-butadiene	BDL	0.0010	mg/l	8260B	04/13/13	1
Isopropylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
p-Isopropyltoluene	BDL	0.0010	mg/l	8260B	04/13/13	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit (PQL)



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REPORT OF ANALYSIS

Matt Hall, Preston Pattison
 Terracon Consultants - B-Ham AL.
 110 12th Street North
 Birmingham, AL 35203

April 24, 2013

Date Received : April 12, 2013
 Description : Aladdin Cleaners

ESC Sample # : L630300-15

Sample ID : MW-4

Site ID : BIRMINGHAM, AL

Collected By : Preston Pattison
 Collection Date : 04/09/13 08:20

Project # : E1117070

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2-Butanone (MEK)	BDL	0.010	mg/l	8260B	04/13/13	1
Methylene Chloride	BDL	0.0050	mg/l	8260B	04/13/13	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/l	8260B	04/13/13	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	04/13/13	1
Naphthalene	BDL	0.0050	mg/l	8260B	04/13/13	1
n-Propylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Styrene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
Tetrachloroethene	BDL	0.0010	mg/l	8260B	04/13/13	1
Toluene	BDL	0.0050	mg/l	8260B	04/13/13	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1,1-Trichloroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1,2-Trichloroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
Trichloroethene	BDL	0.0010	mg/l	8260B	04/13/13	1
Trichlorofluoromethane	BDL	0.0050	mg/l	8260B	04/13/13	1
1,2,3-Trichloropropane	BDL	0.0025	mg/l	8260B	04/13/13	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Vinyl chloride	BDL	0.0010	mg/l	8260B	04/13/13	1
Xylenes, Total	BDL	0.0030	mg/l	8260B	04/13/13	1
Surrogate Recovery						
Toluene-d8	103.		% Rec.	8260B	04/13/13	1
Dibromofluoromethane	103.		% Rec.	8260B	04/13/13	1
4-Bromofluorobenzene	96.7		% Rec.	8260B	04/13/13	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

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REPORT OF ANALYSIS

Matt Hall, Preston Pattison
 Terracon Consultants - B-Ham AL.
 110 12th Street North
 Birmingham, AL 35203

April 24, 2013

Date Received : April 12, 2013
 Description : Aladdin Cleaners
 Sample ID : MW-2
 Collected By : Preston Pattison
 Collection Date : 04/09/13 08:41

ESC Sample # : L630300-16
 Site ID : BIRMINGHAM, AL
 Project # : E1117070

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	0.050	mg/l	8260B	04/13/13	1
Acrolein	BDL	0.050	mg/l	8260B	04/13/13	1
Acrylonitrile	BDL	0.010	mg/l	8260B	04/13/13	1
Benzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Bromobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Bromodichloromethane	BDL	0.0010	mg/l	8260B	04/13/13	1
Bromoform	BDL	0.0010	mg/l	8260B	04/13/13	1
Bromomethane	BDL	0.0050	mg/l	8260B	04/13/13	1
n-Butylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
sec-Butylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
tert-Butylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Carbon tetrachloride	BDL	0.0010	mg/l	8260B	04/13/13	1
Chlorobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Chlorodibromomethane	BDL	0.0010	mg/l	8260B	04/13/13	1
Chloroethane	BDL	0.0050	mg/l	8260B	04/13/13	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	8260B	04/13/13	1
Chloroform	BDL	0.0050	mg/l	8260B	04/13/13	1
Chloromethane	BDL	0.0025	mg/l	8260B	04/13/13	1
2-Chlorotoluene	BDL	0.0010	mg/l	8260B	04/13/13	1
4-Chlorotoluene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,2-Dibromo-3-Chloropropane	BDL	0.0050	mg/l	8260B	04/13/13	1
1,2-Dibromoethane	BDL	0.0010	mg/l	8260B	04/13/13	1
Dibromomethane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Dichlorodifluoromethane	BDL	0.0050	mg/l	8260B	04/13/13	1
1,1-Dichloroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,2-Dichloroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1-Dichloroethene	BDL	0.0010	mg/l	8260B	04/13/13	1
cis-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	04/13/13	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,2-Dichloropropane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1-Dichloropropene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	04/13/13	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	04/13/13	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	04/13/13	1
2,2-Dichloropropane	BDL	0.0010	mg/l	8260B	04/13/13	1
Di-isopropyl ether	BDL	0.0010	mg/l	8260B	04/13/13	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Hexachloro-1,3-butadiene	BDL	0.0010	mg/l	8260B	04/13/13	1
Isopropylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
p-Isopropyltoluene	BDL	0.0010	mg/l	8260B	04/13/13	1

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit (PQL)



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Est. 1970

REPORT OF ANALYSIS

Matt Hall, Preston Pattison
 Terracon Consultants - B-Ham AL.
 110 12th Street North
 Birmingham, AL 35203

April 24, 2013

Date Received : April 12, 2013
 Description : Aladdin Cleaners
 Sample ID : MW-2
 Collected By : Preston Pattison
 Collection Date : 04/09/13 08:41

ESC Sample # : L630300-16

Site ID : BIRMINGHAM, AL

Project # : E1117070

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2-Butanone (MEK)	BDL	0.010	mg/l	8260B	04/13/13	1
Methylene Chloride	BDL	0.0050	mg/l	8260B	04/13/13	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/l	8260B	04/13/13	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	04/13/13	1
Naphthalene	BDL	0.0050	mg/l	8260B	04/13/13	1
n-Propylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Styrene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
Tetrachloroethene	BDL	0.0010	mg/l	8260B	04/13/13	1
Toluene	BDL	0.0050	mg/l	8260B	04/13/13	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1,1-Trichloroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1,2-Trichloroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
Trichloroethene	BDL	0.0010	mg/l	8260B	04/13/13	1
Trichlorofluoromethane	BDL	0.0050	mg/l	8260B	04/13/13	1
1,2,3-Trichloropropane	BDL	0.0025	mg/l	8260B	04/13/13	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Vinyl chloride	BDL	0.0010	mg/l	8260B	04/13/13	1
Xylenes, Total	BDL	0.0030	mg/l	8260B	04/13/13	1
Surrogate Recovery						
Toluene-d8	104.		5 Rec.	8260B	04/13/13	1
Dibromofluoromethane	105.		2 Rec.	8260B	04/13/13	1
4-Bromofluorobenzene	95.4		5 Rec.	8260B	04/13/13	1

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit (PQL)

Note:

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REPORT OF ANALYSIS

Matt Hall, Preston Pattison
Terracon Consultants - B-Ham AL.
110 12th Street North
Birmingham, AL 35203

April 24, 2013

Date Received : April 12, 2013
Description : Aladdin Cleaners
Sample ID : MW-3
Collected By : Preston Pattison
Collection Date : 04/09/13 08:52

ESC Sample # : L630300-17
Site ID : BIRMINGHAM, AL
Project # : E1117070

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	0.050	mg/l	8260B	04/13/13	1
Acrolein	BDL	0.050	mg/l	8260B	04/13/13	1
Acrylonitrile	BDL	0.010	mg/l	8260B	04/13/13	1
Benzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Bromobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Bromodichloromethane	BDL	0.0010	mg/l	8260B	04/13/13	1
Bromoform	BDL	0.0010	mg/l	8260B	04/13/13	1
Bromomethane	BDL	0.0050	mg/l	8260B	04/13/13	1
n-Butylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
sec-Butylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
tert-Butylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Carbon tetrachloride	BDL	0.0010	mg/l	8260B	04/13/13	1
Chlorobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Chlorodibromomethane	BDL	0.0010	mg/l	8260B	04/13/13	1
Chloroethane	BDL	0.0050	mg/l	8260B	04/13/13	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	8260B	04/13/13	1
Chloroform	BDL	0.0050	mg/l	8260B	04/13/13	1
Chloromethane	BDL	0.0025	mg/l	8260B	04/13/13	1
2-Chlorotoluene	BDL	0.0010	mg/l	8260B	04/13/13	1
4-Chlorotoluene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,2-Dibromo-3-Chloropropane	BDL	0.0050	mg/l	8260B	04/13/13	1
1,2-Dibromoethane	BDL	0.0010	mg/l	8260B	04/13/13	1
Dibromomethane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Dichlorodifluoromethane	BDL	0.0050	mg/l	8260B	04/13/13	1
1,1-Dichloroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,2-Dichloroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1-Dichloroethene	BDL	0.0010	mg/l	8260B	04/13/13	1
cis-1,2-Dichloroethene	0.0064	0.0010	mg/l	8260B	04/13/13	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,2-Dichloropropane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1-Dichloropropene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,3-Dichloropropane	BDL	0.0010	mg/l	8260B	04/13/13	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	04/13/13	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	04/13/13	1
2,2-Dichloropropane	BDL	0.0010	mg/l	8260B	04/13/13	1
Di-isopropyl ether	BDL	0.0010	mg/l	8260B	04/13/13	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Hexachloro-1,3-butadiene	BDL	0.0010	mg/l	8260B	04/13/13	1
Isopropylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
p-Isopropyltoluene	BDL	0.0010	mg/l	8260B	04/13/13	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit (PQL)



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REPORT OF ANALYSIS

Matt Hall, Preston Pattison
 Terracon Consultants - B-Ham AL.
 110 12th Street North
 Birmingham, AL 35203

April 24, 2013

Date Received : April 12, 2013
 Description : Aladdin Cleaners
 Sample ID : MW-3
 Collected By : Preston Pattison
 Collection Date : 04/09/13 08:52

ESC Sample # : L630300-17
 Site ID : BIRMINGHAM, AL
 Project # : E1117070

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2-Butanone (MEK)	BDL	0.010	mg/l	8260B	04/13/13	1
Methylene Chloride	BDL	0.0050	mg/l	8260B	04/13/13	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/l	8260B	04/13/13	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	04/13/13	1
Naphthalene	BDL	0.0050	mg/l	8260B	04/13/13	1
n-Propylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Styrene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
Tetrachloroethene	0.021	0.0010	mg/l	8260B	04/13/13	1
Toluene	BDL	0.0050	mg/l	8260B	04/13/13	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1,1-Trichloroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1,2-Trichloroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
Trichloroethene	0.0034	0.0010	mg/l	8260B	04/13/13	1
Trichlorofluoromethane	BDL	0.0050	mg/l	8260B	04/13/13	1
1,2,3-Trichloropropane	BDL	0.0025	mg/l	8260B	04/13/13	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Vinyl chloride	BDL	0.0010	mg/l	8260B	04/13/13	1
Xylenes, Total	BDL	0.0030	mg/l	8260B	04/13/13	1
Surrogate Recovery						
Toluene-d8	103.		3 Rec.	8260B	04/13/13	1
Dibromofluoromethane	99.5		3 Rec.	8260B	04/13/13	1
4-Bromofluorobenzene	96.7		4 Rec.	8260B	04/13/13	1

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit (PQL)
 Note:
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REPORT OF ANALYSIS

Matt Hall, Preston Pattison
Terracon Consultants - B-Ham AL.
110 12th Street North
Birmingham, AL 35203

April 24, 2013

Date Received : April 12, 2013
Description : Aladdin Cleaners

ESC Sample # : I630300-18

Sample ID : MW-1

Site ID : BIRMINGHAM, AL

Collected By : Preston Pattison
Collection Date : 04/09/13 09:00

Project # : E1117070

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	0.050	mg/l	8260B	04/13/13	1
Acrolein	BDL	0.050	mg/l	8260B	04/13/13	1
Acrylonitrile	BDL	0.010	mg/l	8260B	04/13/13	1
Benzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Bromobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Bromodichloromethane	BDL	0.0010	mg/l	8260B	04/13/13	1
Bromoform	BDL	0.0010	mg/l	8260B	04/13/13	1
Bromomethane	BDL	0.0050	mg/l	8260B	04/13/13	1
n-Butylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
sec-Butylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
tert-Butylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Carbon tetrachloride	BDL	0.0010	mg/l	8260B	04/13/13	1
Chlorobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Chlorodibromomethane	BDL	0.0010	mg/l	8260B	04/13/13	1
Chloroethane	BDL	0.0050	mg/l	8260B	04/13/13	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	8260B	04/13/13	1
Chloroform	BDL	0.0050	mg/l	8260B	04/13/13	1
Chloromethane	BDL	0.0025	mg/l	8260B	04/13/13	1
2-Chlorotoluene	BDL	0.0010	mg/l	8260B	04/13/13	1
4-Chlorotoluene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,2-Dibromo-3-Chloropropane	BDL	0.0050	mg/l	8260B	04/13/13	1
1,2-Dibromoethane	BDL	0.0010	mg/l	8260B	04/13/13	1
Dibromomethane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Dichlorodifluoromethane	BDL	0.0050	mg/l	8260B	04/13/13	1
1,1-Dichloroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,2-Dichloroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1-Dichloroethene	BDL	0.0010	mg/l	8260B	04/13/13	1
cis-1,2-Dichloroethene	0.0080	0.0010	mg/l	8260B	04/13/13	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,2-Dichloropropane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1-Dichloropropene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,3-Dichloropropane	BDL	0.0010	mg/l	8260B	04/13/13	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	04/13/13	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	04/13/13	1
2,2-Dichloropropane	BDL	0.0010	mg/l	8260B	04/13/13	1
Di-isopropyl ether	BDL	0.0010	mg/l	8260B	04/13/13	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Hexachloro-1,3-butadiene	BDL	0.0010	mg/l	8260B	04/13/13	1
Isopropylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
p-Isopropyltoluene	BDL	0.0010	mg/l	8260B	04/13/13	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit (PQL)



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REPORT OF ANALYSIS

April 24, 2013

Matt Hall, Preston Pattison
 Terracon Consultants - B-Ham AL.
 110 12th Street North
 Birmingham, AL 35203

Date Received : April 12, 2013
 Description : Aladdin Cleaners
 Sample ID : MW-1
 Collected By : Preston Pattison
 Collection Date : 04/09/13 09:00

ESC Sample # : L630300-18
 Site ID : BIRMINGHAM, AL
 Project # : E1117070

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2-Butanone (MEK)	BDL	0.010	mg/l	8260B	04/13/13	1
Methylene Chloride	BDL	0.0050	mg/l	8260B	04/13/13	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/l	8260B	04/13/13	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	04/13/13	1
Naphthalene	BDL	0.0050	mg/l	8260B	04/13/13	1
n-Propylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Styrene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
Tetrachloroethene	0.036	0.0010	mg/l	8260B	04/13/13	1
Toluene	BDL	0.0050	mg/l	8260B	04/13/13	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1,1-Trichloroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1,2-Trichloroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
Trichloroethene	0.0047	0.0010	mg/l	8260B	04/13/13	1
Trichlorofluoromethane	BDL	0.0050	mg/l	8260B	04/13/13	1
1,2,3-Trichloropropane	BDL	0.0025	mg/l	8260B	04/13/13	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Vinyl chloride	BDL	0.0010	mg/l	8260B	04/13/13	1
Xylenes, Total	BDL	0.0030	mg/l	8260B	04/13/13	1
Surrogate Recovery						
Toluene-d8	103.		Rec.	8260B	04/13/13	1
Dibromofluoromethane	104.		Rec.	8260B	04/13/13	1
4-Bromofluorobenzene	98.7		Rec.	8260B	04/13/13	1

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit (PQL)
 Note:
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REPORT OF ANALYSIS

Matt Hall, Preston Pattison
Terracon Consultants - B-Ham AL.
110 12th Street North
Birmingham, AL 35203

April 24, 2013

Date Received : April 12, 2013
Description : Aladdin Cleaners
Sample ID : DW-1
Collected By : Preston Pattison
Collection Date : 04/09/13 09:17

ESC Sample # : L630300-19

Site ID : BIRMINGHAM, AL

Project # : E1117070

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	0.050	mg/l	8260B	04/13/13	1
Acrolein	BDL	0.050	mg/l	8260B	04/13/13	1
Acrylonitrile	BDL	0.010	mg/l	8260B	04/13/13	1
Benzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Bromobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Bromodichloromethane	BDL	0.0010	mg/l	8260B	04/13/13	1
Bromoform	BDL	0.0010	mg/l	8260B	04/13/13	1
Bromomethane	BDL	0.0050	mg/l	8260B	04/13/13	1
n-Butylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
sec-Butylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
tert-Butylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Carbon tetrachloride	BDL	0.0010	mg/l	8260B	04/13/13	1
Chlorobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Chlorodibromomethane	BDL	0.0010	mg/l	8260B	04/13/13	1
Chloroethane	BDL	0.0050	mg/l	8260B	04/13/13	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	8260B	04/13/13	1
Chloroform	BDL	0.0050	mg/l	8260B	04/13/13	1
Chloromethane	BDL	0.0025	mg/l	8260B	04/13/13	1
2-Chlorotoluene	BDL	0.0010	mg/l	8260B	04/13/13	1
4-Chlorotoluene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,2-Dibromo-3-Chloropropane	BDL	0.0050	mg/l	8260B	04/13/13	1
1,2-Dibromoethane	BDL	0.0010	mg/l	8260B	04/13/13	1
Dibromomethane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Dichlorodifluoromethane	BDL	0.0050	mg/l	8260B	04/13/13	1
1,1-Dichloroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,2-Dichloroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1-Dichloroethene	BDL	0.0010	mg/l	8260B	04/13/13	1
cis-1,2-Dichloroethene	0.017	0.0010	mg/l	8260B	04/13/13	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,2-Dichloropropane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1-Dichloropropene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,3-Dichloropropane	BDL	0.0010	mg/l	8260B	04/13/13	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	04/13/13	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	04/13/13	1
2,2-Dichloropropane	BDL	0.0010	mg/l	8260B	04/13/13	1
Di-isopropyl ether	BDL	0.0010	mg/l	8260B	04/13/13	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Hexachloro-1,3-butadiene	BDL	0.0010	mg/l	8260B	04/13/13	1
Isopropylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
p-Isopropyltoluene	BDL	0.0010	mg/l	8260B	04/13/13	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit (PQL)



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REPORT OF ANALYSIS

Matt Hall, Preston Pattison
 Terracon Consultants - B-Ham AL.
 110 12th Street North
 Birmingham, AL 35203

April 24, 2013

Date Received : April 12, 2013
 Description : Aladdin Cleaners
 Sample ID : DW-1
 Collected By : Preston Pattison
 Collection Date : 04/09/13 09:17

ESC Sample # : L630300-19

Site ID : BIRMINGHAM, AL

Project # : E1117070

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2-Butanone (MEK)	BDL	0.010	mg/l	8260B	04/13/13	1
Methylene Chloride	BDL	0.0050	mg/l	8260B	04/13/13	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/l	8260B	04/13/13	1
Methyl tert-butyl ether	0.0011	0.0010	mg/l	8260B	04/13/13	1
Naphthalene	BDL	0.0050	mg/l	8260B	04/13/13	1
n-Propylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Styrene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
Tetrachloroethene	0.038	0.0010	mg/l	8260B	04/13/13	1
Toluene	BDL	0.0050	mg/l	8260B	04/13/13	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1,1-Trichloroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1,2-Trichloroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
Trichloroethene	0.0050	0.0010	mg/l	8260B	04/13/13	1
Trichlorofluoromethane	BDL	0.0050	mg/l	8260B	04/13/13	1
1,2,3-Trichloropropane	BDL	0.0025	mg/l	8260B	04/13/13	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Vinyl chloride	BDL	0.0010	mg/l	8260B	04/13/13	1
Xylenes, Total	BDL	0.0030	mg/l	8260B	04/13/13	1
Surrogate Recovery						
Toluene-d8	104.		Rec.	8260B	04/13/13	1
Dibromofluoromethane	100.		Rec.	8260B	04/13/13	1
4-Bromofluorobenzene	99.4		Rec.	8260B	04/13/13	1

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit (PQL)

Note:
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REPORT OF ANALYSIS

Matt Hall, Preston Pattison
 Terracon Consultants - B-Ham AL.
 110 12th Street North
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April 24, 2013

Date Received : April 12, 2013
 Description : Aladdin Cleaners
 Sample ID : DW-1 DUP
 Collected By : Preston Pattison
 Collection Date : 04/09/13 09:17

ESC Sample # : L630300-20

Site ID : BIRMINGHAM, AL

Project # : E1117070

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	0.050	mg/l	8260B	04/13/13	1
Acrolein	BDL	0.050	mg/l	8260B	04/13/13	1
Acrylonitrile	BDL	0.010	mg/l	8260B	04/13/13	1
Benzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Bromobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Bromodichloromethane	BDL	0.0010	mg/l	8260B	04/13/13	1
Bromoform	BDL	0.0010	mg/l	8260B	04/13/13	1
Bromomethane	BDL	0.0050	mg/l	8260B	04/13/13	1
n-Butylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
sec-Butylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
tert-Butylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Carbon tetrachloride	BDL	0.0010	mg/l	8260B	04/13/13	1
Chlorobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Chlorodibromomethane	BDL	0.0010	mg/l	8260B	04/13/13	1
Chloroethane	BDL	0.0050	mg/l	8260B	04/13/13	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	8260B	04/13/13	1
Chloroform	BDL	0.0050	mg/l	8260B	04/13/13	1
Chloromethane	BDL	0.0025	mg/l	8260B	04/13/13	1
2-Chlorotoluene	BDL	0.0010	mg/l	8260B	04/13/13	1
4-Chlorotoluene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,2-Dibromo-3-Chloropropane	BDL	0.0050	mg/l	8260B	04/13/13	1
1,2-Dibromoethane	BDL	0.0010	mg/l	8260B	04/13/13	1
Dibromomethane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Dichlorodifluoromethane	BDL	0.0050	mg/l	8260B	04/13/13	1
1,1-Dichloroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,2-Dichloroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1-Dichloroethene	BDL	0.0010	mg/l	8260B	04/13/13	1
cis-1,2-Dichloroethene	0.018	0.0010	mg/l	8260B	04/13/13	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,2-Dichloropropane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1-Dichloropropene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,3-Dichloropropane	BDL	0.0010	mg/l	8260B	04/13/13	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	04/13/13	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	04/13/13	1
2,2-Dichloropropane	BDL	0.0010	mg/l	8260B	04/13/13	1
Di-isopropyl ether	BDL	0.0010	mg/l	8260B	04/13/13	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Hexachloro-1,3-butadiene	BDL	0.0010	mg/l	8260B	04/13/13	1
Isopropylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
p-Isopropyltoluene	BDL	0.0010	mg/l	8260B	04/13/13	1

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit (PQL)



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REPORT OF ANALYSIS

Matt Hall, Preston Pattison
 Terracon Consultants - B-Ham AL.
 110 12th Street North
 Birmingham, AL 35203

April 24, 2013

Date Received : April 12, 2013
 Description : Aladdin Cleaners
 Sample ID : DW-1 DUP
 Collected By : Preston Pattison
 Collection Date : 04/09/13 09:17

ESC Sample # : L630300-20
 Site ID : BIRMINGHAM, AL
 Project # : E1117070

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2-Butanone (MEK)	BDL	0.010	mg/l	8260B	04/13/13	1
Methylene Chloride	BDL	0.0050	mg/l	8260B	04/13/13	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/l	8260B	04/13/13	1
Methyl tert-butyl ether	0.0011	0.0010	mg/l	8260B	04/13/13	1
Naphthalene	BDL	0.0050	mg/l	8260B	04/13/13	1
n-Propylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Styrene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
Tetrachloroethene	0.038	0.0010	mg/l	8260B	04/13/13	1
Toluene	BDL	0.0050	mg/l	8260B	04/13/13	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1,1-Trichloroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1,2-Trichloroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
Trichloroethene	0.0049	0.0010	mg/l	8260B	04/13/13	1
Trichlorofluoromethane	BDL	0.0050	mg/l	8260B	04/13/13	1
1,2,3-Trichloropropane	BDL	0.0025	mg/l	8260B	04/13/13	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Vinyl chloride	BDL	0.0010	mg/l	8260B	04/13/13	1
Xylenes, Total	BDL	0.0030	mg/l	8260B	04/13/13	1
Surrogate Recovery						
Toluene-d8	103.		Rec.	8260B	04/13/13	1
Dibromofluoromethane	102.		Rec.	8260B	04/13/13	1
4-Bromofluorobenzene	97.6		Rec.	8260B	04/13/13	1

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit (PQL)
 Note:
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REPORT OF ANALYSIS

Matt Hall, Preston Pattison
 Terracon Consultants - B-Ham AL.
 110 12th Street North
 Birmingham, AL 35203

April 24, 2013

Date Received : April 12, 2013
 Description : Aladdin Cleaners
 Sample ID : MW-6
 Collected By : Preston Pattison
 Collection Date : 04/09/13 17:50

ESC Sample # : L630300-21
 Site ID : BIRMINGHAM, AL
 Project # : E1117070

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	0.050	mg/l	8260B	04/13/13	1
Acrolein	BDL	0.050	mg/l	8260B	04/13/13	1
Acrylonitrile	BDL	0.010	mg/l	8260B	04/13/13	1
Benzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Bromobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Bromodichloromethane	BDL	0.0010	mg/l	8260B	04/13/13	1
Bromoform	BDL	0.0010	mg/l	8260B	04/13/13	1
Bromomethane	BDL	0.0050	mg/l	8260B	04/13/13	1
n-Butylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
sec-Butylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
tert-Butylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Carbon tetrachloride	BDL	0.0010	mg/l	8260B	04/13/13	1
Chlorobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Chlorodibromomethane	BDL	0.0010	mg/l	8260B	04/13/13	1
Chloroethane	BDL	0.0050	mg/l	8260B	04/13/13	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	8260B	04/13/13	1
Chloroform	BDL	0.0050	mg/l	8260B	04/13/13	1
Chloromethane	BDL	0.0025	mg/l	8260B	04/13/13	1
2-Chlorotoluene	BDL	0.0010	mg/l	8260B	04/13/13	1
4-Chlorotoluene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,2-Dibromo-3-Chloropropane	BDL	0.0050	mg/l	8260B	04/13/13	1
1,2-Dibromoethane	BDL	0.0010	mg/l	8260B	04/13/13	1
Dibromomethane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Dichlorodifluoromethane	BDL	0.0050	mg/l	8260B	04/13/13	1
1,1-Dichloroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,2-Dichloroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1-Dichloroethene	BDL	0.0010	mg/l	8260B	04/13/13	1
cis-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	04/13/13	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,2-Dichloropropane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1-Dichloropropene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,3-Dichloropropane	BDL	0.0010	mg/l	8260B	04/13/13	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	04/13/13	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	04/13/13	1
2,2-Dichloropropane	BDL	0.0010	mg/l	8260B	04/13/13	1
Di-isopropyl ether	BDL	0.0010	mg/l	8260B	04/13/13	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Hexachloro-1,3-butadiene	BDL	0.0010	mg/l	8260B	04/13/13	1
Isopropylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
p-Isopropyltoluene	BDL	0.0010	mg/l	8260B	04/13/13	1

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit (PQL)



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REPORT OF ANALYSIS

Matt Hall, Preston Pattison
 Terracon Consultants - B-Ham AL.
 110 12th Street North
 Birmingham, AL 35203

April 24, 2013

Date Received : April 12, 2013
 Description : Aladdin Cleaners
 Sample ID : MW-6
 Collected By : Preston Pattison
 Collection Date : 04/09/13 17:50

ESC Sample # : L630300-21
 Site ID : BIRMINGHAM, AL
 Project # : E1117070

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2-Butanone (MEK)	BDL	0.010	mg/l	8260B	04/13/13	1
Methylene Chloride	BDL	0.0050	mg/l	8260B	04/13/13	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/l	8260B	04/13/13	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	04/13/13	1
Naphthalene	BDL	0.0050	mg/l	8260B	04/13/13	1
n-Propylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Styrene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
Tetrachloroethene	BDL	0.0010	mg/l	8260B	04/13/13	1
Toluene	BDL	0.0050	mg/l	8260B	04/13/13	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1,1-Trichloroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
1,1,2-Trichloroethane	BDL	0.0010	mg/l	8260B	04/13/13	1
Trichloroethene	BDL	0.0010	mg/l	8260B	04/13/13	1
Trichlorofluoromethane	BDL	0.0050	mg/l	8260B	04/13/13	1
1,2,3-Trichloropropane	BDL	0.0025	mg/l	8260B	04/13/13	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/l	8260B	04/13/13	1
Vinyl chloride	BDL	0.0010	mg/l	8260B	04/13/13	1
Xylenes, Total	BDL	0.0030	mg/l	8260B	04/13/13	1
Surrogate Recovery						
Toluene-d8	104.		Rec.	8260B	04/13/13	1
Dibromofluoromethane	99.1		Rec.	8260B	04/13/13	1
4-Bromofluorobenzene	98.5		Rec.	8260B	04/13/13	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

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Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L630300-08	WG656552	SAMP	Silver	R2634301	O
L630300-10	WG656045	SAMP	Acrolein	R2623240	J5
	WG656045	SAMP	2-Chloroethyl vinyl ether	R2623240	J3

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J3	The associated batch QC was outside the established quality control range for precision.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high
0	(ESC) Sample diluted due to matrix interferences that impaired the ability to make an accurate analytical determination. The detection limit is elevated in order to reflect the necessary dilution.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

- Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.
- Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.



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Trey Noland
Terracon Consultants - B-Ham AL.
110 12th Street North
Birmingham, AL 35203

Report Summary

Thursday August 29, 2013

Report Number: L653972

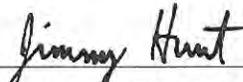
Samples Received: 08/24/13

Client Project: E1137123

Description: Aladdin Montclair

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:


Jimmy Hunt, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197,
FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016,
NC - ENV375/DW21704/BIO041, ND - R-140, NJ - TN002, NJ NELAP - TN002,
SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612,
MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1,
TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364

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Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

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REPORT OF ANALYSIS

Trey Noland
Terracon Consultants - B-Ham AL.
110 12th Street North
Birmingham, AL 35203

August 29, 2013

Date Received : August 24, 2013
Description : Aladdin Montclair

ESC Sample # : L653972-01

Sample ID : MW-1

Site ID : IRONDALE, AL

Collected By : Brian Brown
Collection Date : 08/22/13 17:59

Project # : E1137123

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	0.050	mg/l	8260B	08/26/13	1
Acrolein	BDL	0.050	mg/l	8260B	08/26/13	1
Acrylonitrile	BDL	0.010	mg/l	8260B	08/26/13	1
Benzene	BDL	0.0010	mg/l	8260B	08/26/13	1
Bromobenzene	BDL	0.0010	mg/l	8260B	08/26/13	1
Bromodichloromethane	BDL	0.0010	mg/l	8260B	08/26/13	1
Bromoform	BDL	0.0010	mg/l	8260B	08/26/13	1
Bromomethane	BDL	0.0050	mg/l	8260B	08/26/13	1
n-Butylbenzene	BDL	0.0010	mg/l	8260B	08/26/13	1
sec-Butylbenzene	BDL	0.0010	mg/l	8260B	08/26/13	1
tert-Butylbenzene	BDL	0.0010	mg/l	8260B	08/26/13	1
Carbon tetrachloride	BDL	0.0010	mg/l	8260B	08/26/13	1
Chlorobenzene	BDL	0.0010	mg/l	8260B	08/26/13	1
Chlorodibromomethane	BDL	0.0010	mg/l	8260B	08/26/13	1
Chloroethane	BDL	0.0050	mg/l	8260B	08/26/13	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	8260B	08/26/13	1
Chloroform	BDL	0.0050	mg/l	8260B	08/26/13	1
Chloromethane	BDL	0.0025	mg/l	8260B	08/26/13	1
2-Chlorotoluene	BDL	0.0010	mg/l	8260B	08/26/13	1
4-Chlorotoluene	BDL	0.0010	mg/l	8260B	08/26/13	1
1,2-Dibromo-3-Chloropropane	BDL	0.0050	mg/l	8260B	08/26/13	1
1,2-Dibromoethane	BDL	0.0010	mg/l	8260B	08/26/13	1
Dibromomethane	BDL	0.0010	mg/l	8260B	08/26/13	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	8260B	08/26/13	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	8260B	08/26/13	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	8260B	08/26/13	1
Dichlorodifluoromethane	BDL	0.0050	mg/l	8260B	08/26/13	1
1,1-Dichloroethane	BDL	0.0010	mg/l	8260B	08/26/13	1
1,2-Dichloroethane	BDL	0.0010	mg/l	8260B	08/26/13	1
1,1-Dichloroethene	BDL	0.0010	mg/l	8260B	08/26/13	1
cis-1,2-Dichloroethene	0.0063	0.0010	mg/l	8260B	08/26/13	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	08/26/13	1
1,2-Dichloropropane	BDL	0.0010	mg/l	8260B	08/26/13	1
1,1-Dichloropropene	BDL	0.0010	mg/l	8260B	08/26/13	1
1,3-Dichloropropane	BDL	0.0010	mg/l	8260B	08/26/13	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	08/26/13	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	08/26/13	1
2,2-Dichloropropane	BDL	0.0010	mg/l	8260B	08/26/13	1
Di-isopropyl ether	BDL	0.0010	mg/l	8260B	08/26/13	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	08/26/13	1
Hexachloro-1,3-butadiene	BDL	0.0010	mg/l	8260B	08/26/13	1
Isopropylbenzene	BDL	0.0010	mg/l	8260B	08/26/13	1
p-Isopropyltoluene	BDL	0.0010	mg/l	8260B	08/26/13	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit (PQL)



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REPORT OF ANALYSIS

Trey Noland
 Terracon Consultants - B-Ham AL.
 110 12th Street North
 Birmingham, AL 35203

August 29, 2013

Date Received : August 24, 2013
 Description : Aladdin Montclair
 Sample ID : MW-1
 Collected By : Brian Brown
 Collection Date : 08/22/13 17:59

ESC Sample # : L653972-01

Site ID : IRONDALE, AL

Project # : E1137123

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2-Butanone (MEK)	BDL	0.010	mg/l	8260B	08/26/13	1
Methylene Chloride	BDL	0.0050	mg/l	8260B	08/26/13	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/l	8260B	08/26/13	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	08/26/13	1
Naphthalene	BDL	0.0050	mg/l	8260B	08/26/13	1
n-Propylbenzene	BDL	0.0010	mg/l	8260B	08/26/13	1
Styrene	BDL	0.0010	mg/l	8260B	08/26/13	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	08/26/13	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	08/26/13	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0010	mg/l	8260B	08/26/13	1
Tetrachloroethene	0.026	0.0010	mg/l	8260B	08/26/13	1
Toluene	BDL	0.0050	mg/l	8260B	08/26/13	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/l	8260B	08/26/13	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/l	8260B	08/26/13	1
1,1,1-Trichloroethane	BDL	0.0010	mg/l	8260B	08/26/13	1
1,1,2-Trichloroethane	BDL	0.0010	mg/l	8260B	08/26/13	1
Trichloroethene	0.0037	0.0010	mg/l	8260B	08/26/13	1
Trichlorofluoromethane	BDL	0.0050	mg/l	8260B	08/26/13	1
1,2,3-Trichloropropane	BDL	0.0025	mg/l	8260B	08/26/13	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/l	8260B	08/26/13	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/l	8260B	08/26/13	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/l	8260B	08/26/13	1
Vinyl chloride	BDL	0.0010	mg/l	8260B	08/26/13	1
Xylenes, Total	BDL	0.0030	mg/l	8260B	08/26/13	1
Surrogate Recovery						
Toluene-d8	98.4		% Rec.	8260B	08/26/13	1
Dibromofluoromethane	97.5		% Rec.	8260B	08/26/13	1
4-Bromofluorobenzene	100.		% Rec.	8260B	08/26/13	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

The reported analytical results relate only to the sample submitted.

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REPORT OF ANALYSIS

Trey Noland
Terracon Consultants - B-Ham AL.
110 12th Street North
Birmingham, AL 35203

August 29, 2013

Date Received : August 24, 2013
Description : Aladdin Montclair

ESC Sample # : L653972-02

Sample ID : MW-2

Site ID : IRONDALE, AL

Collected By : Brian Brown
Collection Date : 08/22/13 18:05

Project # : E1137123

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	0.050	mg/l	8260B	08/27/13	1
Acrolein	BDL	0.050	mg/l	8260B	08/27/13	1
Acrylonitrile	BDL	0.010	mg/l	8260B	08/27/13	1
Benzene	BDL	0.0010	mg/l	8260B	08/27/13	1
Bromobenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
Bromodichloromethane	BDL	0.0010	mg/l	8260B	08/27/13	1
Bromoform	BDL	0.0010	mg/l	8260B	08/27/13	1
Bromomethane	BDL	0.0050	mg/l	8260B	08/27/13	1
n-Butylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
sec-Butylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
tert-Butylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
Carbon tetrachloride	BDL	0.0010	mg/l	8260B	08/27/13	1
Chlorobenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
Chlorodibromomethane	BDL	0.0010	mg/l	8260B	08/27/13	1
Chloroethane	BDL	0.0050	mg/l	8260B	08/27/13	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	8260B	08/27/13	1
Chloroform	BDL	0.0050	mg/l	8260B	08/27/13	1
Chloromethane	BDL	0.0025	mg/l	8260B	08/27/13	1
2-Chlorotoluene	BDL	0.0010	mg/l	8260B	08/27/13	1
4-Chlorotoluene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,2-Dibromo-3-Chloropropane	BDL	0.0050	mg/l	8260B	08/27/13	1
1,2-Dibromoethane	BDL	0.0010	mg/l	8260B	08/27/13	1
Dibromomethane	BDL	0.0010	mg/l	8260B	08/27/13	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
Dichlorodifluoromethane	BDL	0.0050	mg/l	8260B	08/27/13	1
1,1-Dichloroethane	BDL	0.0010	mg/l	8260B	08/27/13	1
1,2-Dichloroethane	BDL	0.0010	mg/l	8260B	08/27/13	1
1,1-Dichloroethene	BDL	0.0010	mg/l	8260B	08/27/13	1
cis-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	08/27/13	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,2-Dichloropropane	BDL	0.0010	mg/l	8260B	08/27/13	1
1,1-Dichloropropene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,3-Dichloropropane	BDL	0.0010	mg/l	8260B	08/27/13	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	08/27/13	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	08/27/13	1
2,2-Dichloropropane	BDL	0.0010	mg/l	8260B	08/27/13	1
Di-isopropyl ether	BDL	0.0010	mg/l	8260B	08/27/13	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
Hexachloro-1,3-butadiene	BDL	0.0010	mg/l	8260B	08/27/13	1
Isopropylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
p-Isopropyltoluene	BDL	0.0010	mg/l	8260B	08/27/13	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)



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REPORT OF ANALYSIS

Trey Noland
 Terracon Consultants - B-Ham AL.
 110 12th Street North
 Birmingham, AL 35203

August 29, 2013

Date Received : August 24, 2013
 Description : Aladdin Montclair
 Sample ID : MW-2
 Collected By : Brian Brown
 Collection Date : 08/22/13 18:05

ESC Sample # : L653972-02

Site ID : IRONDALE, AL

Project # : E1137123

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2-Butanone (MEK)	BDL	0.010	mg/l	8260B	08/27/13	1
Methylene Chloride	BDL	0.0050	mg/l	8260B	08/27/13	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/l	8260B	08/27/13	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	08/27/13	1
Naphthalene	BDL	0.0050	mg/l	8260B	08/27/13	1
n-Propylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
Styrene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	08/27/13	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	08/27/13	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0010	mg/l	8260B	08/27/13	1
Tetrachloroethene	0.0010	0.0010	mg/l	8260B	08/27/13	1
Toluene	BDL	0.0050	mg/l	8260B	08/27/13	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,1,1-Trichloroethane	BDL	0.0010	mg/l	8260B	08/27/13	1
1,1,2-Trichloroethane	BDL	0.0010	mg/l	8260B	08/27/13	1
Trichloroethene	BDL	0.0010	mg/l	8260B	08/27/13	1
Trichlorofluoromethane	BDL	0.0050	mg/l	8260B	08/27/13	1
1,2,3-Trichloropropane	BDL	0.0025	mg/l	8260B	08/27/13	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
Vinyl chloride	BDL	0.0010	mg/l	8260B	08/27/13	1
Xylenes, Total	BDL	0.0030	mg/l	8260B	08/27/13	1
Surrogate Recovery						
Toluene-d8	97.5		% Rec.	8260B	08/27/13	1
Dibromofluoromethane	99.8		% Rec.	8260B	08/27/13	1
4-Bromofluorobenzene	103.		% Rec.	8260B	08/27/13	1

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit (PQL)
 Note:
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REPORT OF ANALYSIS

Trey Noland
Terracon Consultants - B-Ham AL.
110 12th Street North
Birmingham, AL 35203

August 29, 2013

Date Received : August 24, 2013
Description : Aladdin Montclair
Sample ID : MW-3
Collected By : Brian Brown
Collection Date : 08/22/13 18:41

ESC Sample # : L653972-03

Site ID : IRONDALE, AL

Project # : E1137123

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	0.050	mg/l	8260B	08/27/13	1
Acrolein	BDL	0.050	mg/l	8260B	08/27/13	1
Acrylonitrile	BDL	0.010	mg/l	8260B	08/27/13	1
Benzene	BDL	0.0010	mg/l	8260B	08/27/13	1
Bromobenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
Bromodichloromethane	BDL	0.0010	mg/l	8260B	08/27/13	1
Bromoform	BDL	0.0010	mg/l	8260B	08/27/13	1
Bromomethane	BDL	0.0050	mg/l	8260B	08/27/13	1
n-Butylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
sec-Butylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
tert-Butylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
Carbon tetrachloride	BDL	0.0010	mg/l	8260B	08/27/13	1
Chlorobenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
Chlorodibromomethane	BDL	0.0010	mg/l	8260B	08/27/13	1
Chloroethane	BDL	0.0050	mg/l	8260B	08/27/13	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	8260B	08/27/13	1
Chloroform	BDL	0.0050	mg/l	8260B	08/27/13	1
Chloromethane	BDL	0.0025	mg/l	8260B	08/27/13	1
2-Chlorotoluene	BDL	0.0010	mg/l	8260B	08/27/13	1
4-Chlorotoluene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,2-Dibromo-3-Chloropropane	BDL	0.0050	mg/l	8260B	08/27/13	1
1,2-Dibromoethane	BDL	0.0010	mg/l	8260B	08/27/13	1
Dibromomethane	BDL	0.0010	mg/l	8260B	08/27/13	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
Dichlorodifluoromethane	BDL	0.0050	mg/l	8260B	08/27/13	1
1,1-Dichloroethane	BDL	0.0010	mg/l	8260B	08/27/13	1
1,2-Dichloroethane	BDL	0.0010	mg/l	8260B	08/27/13	1
1,1-Dichloroethene	BDL	0.0010	mg/l	8260B	08/27/13	1
cis-1,2-Dichloroethene	0.0026	0.0010	mg/l	8260B	08/27/13	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,2-Dichloropropane	BDL	0.0010	mg/l	8260B	08/27/13	1
1,1-Dichloropropene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,3-Dichloropropane	BDL	0.0010	mg/l	8260B	08/27/13	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	08/27/13	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	08/27/13	1
2,2-Dichloropropane	BDL	0.0010	mg/l	8260B	08/27/13	1
Di-isopropyl ether	BDL	0.0010	mg/l	8260B	08/27/13	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
Hexachloro-1,3-butadiene	BDL	0.0010	mg/l	8260B	08/27/13	1
Isopropylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
p-Isopropyltoluene	BDL	0.0010	mg/l	8260B	08/27/13	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit (PQL)



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Est. 1970

REPORT OF ANALYSIS

August 29, 2013

Trey Noland
 Terracon Consultants - B-Ham AL.
 110 12th Street North
 Birmingham, AL 35203

Date Received : August 24, 2013
 Description : Aladdin Montclair
 Sample ID : MW-3
 Collected By : Brian Brown
 Collection Date : 08/22/13 18:41

ESC Sample # : L653972-03

Site ID : IRONDALE, AL

Project # : E1137123

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2-Butanone (MEK)	BDL	0.010	mg/l	8260B	08/27/13	1
Methylene Chloride	BDL	0.0050	mg/l	8260B	08/27/13	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/l	8260B	08/27/13	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	08/27/13	1
Naphthalene	BDL	0.0050	mg/l	8260B	08/27/13	1
n-Propylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
Styrene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	08/27/13	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	08/27/13	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0010	mg/l	8260B	08/27/13	1
Tetrachloroethene	0.014	0.0010	mg/l	8260B	08/27/13	1
Toluene	BDL	0.0050	mg/l	8260B	08/27/13	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,1,1-Trichloroethane	BDL	0.0010	mg/l	8260B	08/27/13	1
1,1,2-Trichloroethane	BDL	0.0010	mg/l	8260B	08/27/13	1
Trichloroethene	0.0023	0.0010	mg/l	8260B	08/27/13	1
Trichlorofluoromethane	BDL	0.0050	mg/l	8260B	08/27/13	1
1,2,3-Trichloropropane	BDL	0.0025	mg/l	8260B	08/27/13	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
Vinyl chloride	BDL	0.0010	mg/l	8260B	08/27/13	1
Xylenes, Total	BDL	0.0030	mg/l	8260B	08/27/13	1
Surrogate Recovery						
Toluene-d8	99.0		Rec.	8260B	08/27/13	1
Dibromofluoromethane	95.4		Rec.	8260B	08/27/13	1
4-Bromofluorobenzene	103.		Rec.	8260B	08/27/13	1

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit (PQL)
 Note:

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REPORT OF ANALYSIS

August 29, 2013

Trey Noland
Terracon Consultants - B-Ham AL.
110 12th Street North
Birmingham, AL 35203

Date Received : August 24, 2013
Description : Aladdin Montclair
Sample ID : MW-4
Collected By : Brian Brown
Collection Date : 08/22/13 18:35

ESC Sample # : L653972-04
Site ID : IRONDALE, AL
Project # : E1137123

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	0.050	mg/l	8260B	08/27/13	1
Acrolein	BDL	0.050	mg/l	8260B	08/27/13	1
Acrylonitrile	BDL	0.010	mg/l	8260B	08/27/13	1
Benzene	BDL	0.0010	mg/l	8260B	08/27/13	1
Bromobenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
Bromodichloromethane	BDL	0.0010	mg/l	8260B	08/27/13	1
Bromoform	BDL	0.0010	mg/l	8260B	08/27/13	1
Bromomethane	BDL	0.0050	mg/l	8260B	08/27/13	1
n-Butylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
sec-Butylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
tert-Butylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
Carbon tetrachloride	BDL	0.0010	mg/l	8260B	08/27/13	1
Chlorobenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
Chlorodibromomethane	BDL	0.0010	mg/l	8260B	08/27/13	1
Chloroethane	BDL	0.0050	mg/l	8260B	08/27/13	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	8260B	08/27/13	1
Chloroform	BDL	0.0050	mg/l	8260B	08/27/13	1
Chloromethane	BDL	0.0025	mg/l	8260B	08/27/13	1
2-Chlorotoluene	BDL	0.0010	mg/l	8260B	08/27/13	1
4-Chlorotoluene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,2-Dibromo-3-Chloropropane	BDL	0.0050	mg/l	8260B	08/27/13	1
1,2-Dibromoethane	BDL	0.0010	mg/l	8260B	08/27/13	1
Dibromomethane	BDL	0.0010	mg/l	8260B	08/27/13	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
Dichlorodifluoromethane	BDL	0.0050	mg/l	8260B	08/27/13	1
1,1-Dichloroethane	BDL	0.0010	mg/l	8260B	08/27/13	1
1,2-Dichloroethane	BDL	0.0010	mg/l	8260B	08/27/13	1
1,1-Dichloroethene	BDL	0.0010	mg/l	8260B	08/27/13	1
cis-1,2-Dichloroethene	0.0033	0.0010	mg/l	8260B	08/27/13	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,2-Dichloropropane	BDL	0.0010	mg/l	8260B	08/27/13	1
1,1-Dichloropropene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,3-Dichloropropane	BDL	0.0010	mg/l	8260B	08/27/13	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	08/27/13	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	08/27/13	1
2,2-Dichloropropane	BDL	0.0010	mg/l	8260B	08/27/13	1
Di-isopropyl ether	BDL	0.0010	mg/l	8260B	08/27/13	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
Hexachloro-1,3-butadiene	BDL	0.0010	mg/l	8260B	08/27/13	1
Isopropylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
p-Isopropyltoluene	BDL	0.0010	mg/l	8260B	08/27/13	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit (PQL)



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REPORT OF ANALYSIS

August 29, 2013

Trey Noland
Terracon Consultants - B-Ham AL.
110 12th Street North
Birmingham, AL 35203

Date Received : August 24, 2013
Description : Aladdin Montclair
Sample ID : MW-4
Collected By : Brian Brown
Collection Date : 08/22/13 18:35

ESC Sample # : L653972-04

Site ID : IRONDALE, AL

Project # : E1137123

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2-Butanone (MEK)	BDL	0.010	mg/l	8260B	08/27/13	1
Methylene Chloride	BDL	0.0050	mg/l	8260B	08/27/13	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/l	8260B	08/27/13	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	08/27/13	1
Naphthalene	BDL	0.0050	mg/l	8260B	08/27/13	1
n-Propylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
Styrene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	08/27/13	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	08/27/13	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0010	mg/l	8260B	08/27/13	1
Tetrachloroethene	BDL	0.0010	mg/l	8260B	08/27/13	1
Toluene	BDL	0.0050	mg/l	8260B	08/27/13	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,1,1-Trichloroethane	BDL	0.0010	mg/l	8260B	08/27/13	1
1,1,2-Trichloroethane	BDL	0.0010	mg/l	8260B	08/27/13	1
Trichloroethene	BDL	0.0010	mg/l	8260B	08/27/13	1
Trichlorofluoromethane	BDL	0.0050	mg/l	8260B	08/27/13	1
1,2,3-Trichloropropane	BDL	0.0025	mg/l	8260B	08/27/13	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
Vinyl chloride	BDL	0.0010	mg/l	8260B	08/27/13	1
Xylenes, Total	BDL	0.0030	mg/l	8260B	08/27/13	1
Surrogate Recovery						
Toluene-d8	98.3		Rec.	8260B	08/27/13	1
Dibromofluoromethane	95.8		Rec.	8260B	08/27/13	1
4-Bromofluorobenzene	104.		Rec.	8260B	08/27/13	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

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REPORT OF ANALYSIS

August 29, 2013

Trey Noland
 Terracon Consultants - B-Ham AL.
 110 12th Street North
 Birmingham, AL 35203

Date Received : August 24, 2013
 Description : Aladdin Montclair
 Sample ID : MW-5
 Collected By : Brian Brown
 Collection Date : 08/22/13 18:28

ESC Sample # : L653972-05
 Site ID : IRONDALE, AL
 Project # : E1137123

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	0.050	mg/l	8260B	08/27/13	1
Acrolein	BDL	0.050	mg/l	8260B	08/27/13	1
Acrylonitrile	BDL	0.010	mg/l	8260B	08/27/13	1
Benzene	BDL	0.0010	mg/l	8260B	08/27/13	1
Bromobenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
Bromodichloromethane	BDL	0.0010	mg/l	8260B	08/27/13	1
Bromoform	BDL	0.0010	mg/l	8260B	08/27/13	1
Bromomethane	BDL	0.0050	mg/l	8260B	08/27/13	1
n-Butylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
sec-Butylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
tert-Butylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
Carbon tetrachloride	BDL	0.0010	mg/l	8260B	08/27/13	1
Chlorobenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
Chlorodibromomethane	BDL	0.0010	mg/l	8260B	08/27/13	1
Chloroethane	BDL	0.0050	mg/l	8260B	08/27/13	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	8260B	08/27/13	1
Chloroform	BDL	0.0050	mg/l	8260B	08/27/13	1
Chloromethane	BDL	0.0025	mg/l	8260B	08/27/13	1
2-Chlorotoluene	BDL	0.0010	mg/l	8260B	08/27/13	1
4-Chlorotoluene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,2-Dibromo-3-Chloropropane	BDL	0.0050	mg/l	8260B	08/27/13	1
1,2-Dibromoethane	BDL	0.0010	mg/l	8260B	08/27/13	1
Dibromomethane	BDL	0.0010	mg/l	8260B	08/27/13	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
Dichlorodifluoromethane	BDL	0.0050	mg/l	8260B	08/27/13	1
1,1-Dichloroethane	BDL	0.0010	mg/l	8260B	08/27/13	1
1,2-Dichloroethane	BDL	0.0010	mg/l	8260B	08/27/13	1
1,1-Dichloroethene	BDL	0.0010	mg/l	8260B	08/27/13	1
cis-1,2-Dichloroethene	0.0042	0.0010	mg/l	8260B	08/27/13	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,2-Dichloropropane	BDL	0.0010	mg/l	8260B	08/27/13	1
1,1-Dichloropropene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,3-Dichloropropane	BDL	0.0010	mg/l	8260B	08/27/13	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	08/27/13	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	08/27/13	1
2,2-Dichloropropane	BDL	0.0010	mg/l	8260B	08/27/13	1
Di-isopropyl ether	BDL	0.0010	mg/l	8260B	08/27/13	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
Hexachloro-1,3-butadiene	BDL	0.0010	mg/l	8260B	08/27/13	1
Isopropylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
p-Isopropyltoluene	BDL	0.0010	mg/l	8260B	08/27/13	1

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit (PQL)



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REPORT OF ANALYSIS

August 29, 2013

Trey Noland
 Terracon Consultants - B-Ham AL.
 110 12th Street North
 Birmingham, AL 35203

Date Received : August 24, 2013
 Description : Aladdin Montclair
 Sample ID : MW-5
 Collected By : Brian Brown
 Collection Date : 08/22/13 18:28

ESC Sample # : L653972-05

Site ID : IRONDALE, AL

Project # : E1137123

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2-Butanone (MEK)	BDL	0.010	mg/l	8260B	08/27/13	1
Methylene Chloride	BDL	0.0050	mg/l	8260B	08/27/13	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/l	8260B	08/27/13	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	08/27/13	1
Naphthalene	BDL	0.0050	mg/l	8260B	08/27/13	1
n-Propylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
Styrene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,1,1,2-Tetrachloroethane	EDL	0.0010	mg/l	8260B	08/27/13	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	08/27/13	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0010	mg/l	8260B	08/27/13	1
Tetrachloroethene	BDL	0.0010	mg/l	8260B	08/27/13	1
Toluene	BDL	0.0050	mg/l	8260B	08/27/13	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,1,1-Trichloroethane	BDL	0.0010	mg/l	8260B	08/27/13	1
1,1,2-Trichloroethane	BDL	0.0010	mg/l	8260B	08/27/13	1
Trichloroethene	BDL	0.0010	mg/l	8260B	08/27/13	1
Trichlorofluoromethane	BDL	0.0050	mg/l	8260B	08/27/13	1
1,2,3-Trichloropropane	BDL	0.0025	mg/l	8260B	08/27/13	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
Vinyl chloride	BDL	0.0010	mg/l	8260B	08/27/13	1
Xylenes, Total	BDL	0.0030	mg/l	8260B	08/27/13	1
Surrogate Recovery						
Toluene-d8	98.3		Rec.	8260B	08/27/13	1
Dibromofluoromethane	95.1		Rec.	8260B	08/27/13	1
4-Bromofluorobenzene	101.		Rec.	8260B	08/27/13	1

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit (PQL)

Note:
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REPORT OF ANALYSIS

August 29, 2013

Trey Noland
 Terracon Consultants - B-Ham AL.
 110 12th Street North
 Birmingham, AL 35203

Date Received : August 24, 2013
 Description : Aladdin Montclair
 Sample ID : MW-6
 Collected By : Brian Brown
 Collection Date : 08/22/13 18:20

ESC Sample # : L653972-06

Site ID : IRONDALE, AL

Project # : E1137123

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	0.050	mg/l	8260B	08/27/13	1
Acrolein	BDL	0.050	mg/l	8260B	08/27/13	1
Acrylonitrile	BDL	0.010	mg/l	8260B	08/27/13	1
Benzene	BDL	0.0010	mg/l	8260B	08/27/13	1
Bromobenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
Bromodichloromethane	BDL	0.0010	mg/l	8260B	08/27/13	1
Bromoform	BDL	0.0010	mg/l	8260B	08/27/13	1
Bromomethane	BDL	0.0050	mg/l	8260B	08/27/13	1
n-Butylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
sec-Butylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
tert-Butylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
Carbon tetrachloride	BDL	0.0010	mg/l	8260B	08/27/13	1
Chlorobenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
Chlorodibromomethane	BDL	0.0010	mg/l	8260B	08/27/13	1
Chloroethane	BDL	0.0050	mg/l	8260B	08/27/13	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	8260B	08/27/13	1
Chloroform	BDL	0.0050	mg/l	8260B	08/27/13	1
Chloromethane	BDL	0.0025	mg/l	8260B	08/27/13	1
2-Chlorotoluene	BDL	0.0010	mg/l	8260B	08/27/13	1
4-Chlorotoluene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,2-Dibromo-3-Chloropropane	BDL	0.0050	mg/l	8260B	08/27/13	1
1,2-Dibromoethane	BDL	0.0010	mg/l	8260B	08/27/13	1
Dibromomethane	BDL	0.0010	mg/l	8260B	08/27/13	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
Dichlorodifluoromethane	BDL	0.0050	mg/l	8260B	08/27/13	1
1,1-Dichloroethane	BDL	0.0010	mg/l	8260B	08/27/13	1
1,2-Dichloroethane	BDL	0.0010	mg/l	8260B	08/27/13	1
1,1-Dichloroethene	BDL	0.0010	mg/l	8260B	08/27/13	1
cis-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	08/27/13	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,2-Dichloropropane	BDL	0.0010	mg/l	8260B	08/27/13	1
1,1-Dichloropropene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,3-Dichloropropane	BDL	0.0010	mg/l	8260B	08/27/13	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	08/27/13	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	08/27/13	1
2,2-Dichloropropane	BDL	0.0010	mg/l	8260B	08/27/13	1
Di-isopropyl ether	BDL	0.0010	mg/l	8260B	08/27/13	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
Hexachloro-1,3-butadiene	BDL	0.0010	mg/l	8260B	08/27/13	1
Isopropylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
p-Isopropyltoluene	BDL	0.0010	mg/l	8260B	08/27/13	1

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit (PQL)



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REPORT OF ANALYSIS

August 29, 2013

Trey Noland
 Terracon Consultants - B-Ham AL.
 110 12th Street North
 Birmingham, AL 35203

ESC Sample # : L653972-06

Date Received : August 24, 2013
 Description : Aladdin Montclair

Site ID : IRONDALE, AL

Sample ID : MW-6

Project # : E1137123

Collected By : Brian Brown
 Collection Date : 08/22/13 18:20

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2-Butanone (MEK)	BDL	0.010	mg/l	8260B	08/27/13	1
Methylene Chloride	BDL	0.0050	mg/l	8260B	08/27/13	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/l	8260B	08/27/13	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	08/27/13	1
Naphthalene	BDL	0.0050	mg/l	8260B	08/27/13	1
n-Propylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
Styrene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	08/27/13	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	08/27/13	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0010	mg/l	8260B	08/27/13	1
Tetrachloroethene	BDL	0.0010	mg/l	8260B	08/27/13	1
Toluene	BDL	0.0050	mg/l	8260B	08/27/13	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,1,1-Trichloroethane	BDL	0.0010	mg/l	8260B	08/27/13	1
1,1,2-Trichloroethane	BDL	0.0010	mg/l	8260B	08/27/13	1
Trichloroethene	BDL	0.0010	mg/l	8260B	08/27/13	1
Trichlorofluoromethane	BDL	0.0050	mg/l	8260B	08/27/13	1
1,2,3-Trichloropropane	BDL	0.0025	mg/l	8260B	08/27/13	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
Vinyl chloride	BDL	0.0010	mg/l	8260B	08/27/13	1
Xylenes, Total	BDL	0.0030	mg/l	8260B	08/27/13	1
Surrogate Recovery						
Toluene-d8	98.5		Rec.	8260B	08/27/13	1
Dibromofluoromethane	97.8		Rec.	8260B	08/27/13	1
4-Bromofluorobenzene	104.		Rec.	8260B	08/27/13	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

The reported analytical results relate only to the sample submitted.

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REPORT OF ANALYSIS

August 29, 2013

Trey Noland
 Terracon Consultants - B-Ham AL.
 110 12th Street North
 Birmingham, AL 35203

Date Received : August 24, 2013
 Description : Aladdin Montclair
 Sample ID : MW-8
 Collected By : Brian Brown
 Collection Date : 08/22/13 17:51

ESC Sample # : L653972-07

Site ID : IRONDALE, AL

Project # : E1137123

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	0.050	mg/l	8260B	08/27/13	1
Acrolein	BDL	0.050	mg/l	8260B	08/27/13	1
Acrylonitrile	BDL	0.010	mg/l	8260B	08/27/13	1
Benzene	BDL	0.0010	mg/l	8260B	08/27/13	1
Bromobenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
Bromodichloromethane	BDL	0.0010	mg/l	8260B	08/27/13	1
Bromoform	BDL	0.0010	mg/l	8260B	08/27/13	1
Bromomethane	BDL	0.0050	mg/l	8260B	08/27/13	1
n-Butylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
sec-Butylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
tert-Butylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
Carbon tetrachloride	BDL	0.0010	mg/l	8260B	08/27/13	1
Chlorobenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
Chlorodibromomethane	BDL	0.0010	mg/l	8260B	08/27/13	1
Chloroethane	BDL	0.0050	mg/l	8260B	08/27/13	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	8260B	08/27/13	1
Chloroform	BDL	0.0050	mg/l	8260B	08/27/13	1
Chloromethane	BDL	0.0025	mg/l	8260B	08/27/13	1
2-Chlorotoluene	BDL	0.0010	mg/l	8260B	08/27/13	1
4-Chlorotoluene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,2-Dibromo-3-Chloropropane	BDL	0.0050	mg/l	8260B	08/27/13	1
1,2-Dibromoethane	BDL	0.0010	mg/l	8260B	08/27/13	1
Dibromomethane	BDL	0.0010	mg/l	8260B	08/27/13	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
Dichlorodifluoromethane	BDL	0.0050	mg/l	8260B	08/27/13	1
1,1-Dichloroethane	BDL	0.0010	mg/l	8260B	08/27/13	1
1,2-Dichloroethane	BDL	0.0010	mg/l	8260B	08/27/13	1
1,1-Dichloroethene	BDL	0.0010	mg/l	8260B	08/27/13	1
cis-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	08/27/13	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,2-Dichloropropane	BDL	0.0010	mg/l	8260B	08/27/13	1
1,1-Dichloropropene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	08/27/13	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	08/27/13	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	08/27/13	1
2,2-Dichloropropane	BDL	0.0010	mg/l	8260B	08/27/13	1
Di-isopropyl ether	BDL	0.0010	mg/l	8260B	08/27/13	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
Hexachloro-1,3-butadiene	BDL	0.0010	mg/l	8260B	08/27/13	1
Isopropylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
p-Isopropyltoluene	BDL	0.0010	mg/l	8260B	08/27/13	1

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit (PQL)



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REPORT OF ANALYSIS

Trey Noland
 Terracon Consultants - B-Ham AL.
 110 12th Street North
 Birmingham, AL 35203

August 29, 2013

Date Received : August 24, 2013
 Description : Aladdin Montclair
 Sample ID : MW-8
 Collected By : Brian Brown
 Collection Date : 08/22/13 17:51

ESC Sample # : L653972-07
 Site ID : IRONDALE, AL
 Project # : E1137123

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2-Butanone (MEK)	BDL	0.010	mg/l	8260B	08/27/13	1
Methylene Chloride	BDL	0.0050	mg/l	8260B	08/27/13	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/l	8260B	08/27/13	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	08/27/13	1
Naphthalene	BDL	0.0050	mg/l	8260B	08/27/13	1
n-Propylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
Styrene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	08/27/13	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	08/27/13	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0010	mg/l	8260B	08/27/13	1
Tetrachloroethene	0.0046	0.0010	mg/l	8260B	08/27/13	1
Toluene	BDL	0.0050	mg/l	8260B	08/27/13	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,1,1-Trichloroethane	BDL	0.0010	mg/l	8260B	08/27/13	1
1,1,2-Trichloroethane	BDL	0.0010	mg/l	8260B	08/27/13	1
Trichloroethene	BDL	0.0010	mg/l	8260B	08/27/13	1
Trichlorofluoromethane	BDL	0.0050	mg/l	8260B	08/27/13	1
1,2,3-Trichloropropane	BDL	0.0025	mg/l	8260B	08/27/13	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
Vinyl chloride	BDL	0.0010	mg/l	8260B	08/27/13	1
Xylenes, Total	BDL	0.0030	mg/l	8260B	08/27/13	1
Surrogate Recovery						
Toluene-d8	95.2		Rec.	8260B	08/27/13	1
Dibromofluoromethane	98.2		Rec.	8260B	08/27/13	1
4-Bromofluorobenzene	102.		Rec.	8260B	08/27/13	1

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit (PQL)
 Note:

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REPORT OF ANALYSIS

Trey Noland
 Terracon Consultants - B-Ham AL.
 110 12th Street North
 Birmingham, AL 35203

August 29, 2013

Date Received : August 24, 2013
 Description : Aladdin Montclair

ESC Sample # : L653972-08

Sample ID : DW-1

Site ID : IRONDALE, AL

Collected By : Brian Brown
 Collection Date : 08/22/13 18:49

Project # : E1137123

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	0.050	mg/l	8260B	08/27/13	1
Acrolein	BDL	0.050	mg/l	8260B	08/27/13	1
Acrylonitrile	BDL	0.010	mg/l	8260B	08/27/13	1
Benzene	BDL	0.0010	mg/l	8260B	08/27/13	1
Bromobenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
Bromodichloromethane	BDL	0.0010	mg/l	8260B	08/27/13	1
Bromoform	BDL	0.0010	mg/l	8260B	08/27/13	1
Bromomethane	BDL	0.0050	mg/l	8260B	08/27/13	1
n-Butylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
sec-Butylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
tert-Butylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
Carbon tetrachloride	BDL	0.0010	mg/l	8260B	08/27/13	1
Chlorobenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
Chlorodibromomethane	BDL	0.0010	mg/l	8260B	08/27/13	1
Chloroethane	BDL	0.0050	mg/l	8260B	08/27/13	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	8260B	08/27/13	1
Chloroform	BDL	0.0050	mg/l	8260B	08/27/13	1
Chloromethane	BDL	0.0025	mg/l	8260B	08/27/13	1
2-Chlorotoluene	BDL	0.0010	mg/l	8260B	08/27/13	1
4-Chlorotoluene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,2-Dibromo-3-Chloropropane	BDL	0.0050	mg/l	8260B	08/27/13	1
1,2-Dibromoethane	BDL	0.0010	mg/l	8260B	08/27/13	1
Dibromomethane	BDL	0.0010	mg/l	8260B	08/27/13	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
Dichlorodifluoromethane	BDL	0.0050	mg/l	8260B	08/27/13	1
1,1-Dichloroethane	BDL	0.0010	mg/l	8260B	08/27/13	1
1,2-Dichloroethane	BDL	0.0010	mg/l	8260B	08/27/13	1
1,1-Dichloroethene	BDL	0.0010	mg/l	8260B	08/27/13	1
cis-1,2-Dichloroethene	0.015	0.0010	mg/l	8260B	08/27/13	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,2-Dichloropropane	BDL	0.0010	mg/l	8260B	08/27/13	1
1,1-Dichloropropene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,3-Dichloropropane	BDL	0.0010	mg/l	8260B	08/27/13	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	08/27/13	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	08/27/13	1
2,2-Dichloropropane	BDL	0.0010	mg/l	8260B	08/27/13	1
Di-isopropyl ether	BDL	0.0010	mg/l	8260B	08/27/13	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
Hexachloro-1,3-butadiene	BDL	0.0010	mg/l	8260B	08/27/13	1
Isopropylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
p-Isopropyltoluene	BDL	0.0010	mg/l	8260B	08/27/13	1

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit (PQL)



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REPORT OF ANALYSIS

August 29, 2013

Trey Noland
Terracon Consultants - B-Ham AL.
110 12th Street North
Birmingham, AL 35203

Date Received : August 24, 2013
Description : Aladdin Montclair
Sample ID : DW-1
Collected By : Brian Brown
Collection Date : 08/22/13 18:49

ESC Sample # : L653972-08

Site ID : IRONDALE, AL

Project # : E1137123

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2-Butanone (MEK)	BDL	0.010	mg/l	8260B	08/27/13	1
Methylene Chloride	BDL	0.0050	mg/l	8260B	08/27/13	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/l	8260B	08/27/13	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	08/27/13	1
Naphthalene	BDL	0.0050	mg/l	8260B	08/27/13	1
n-Propylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
Styrene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	08/27/13	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	08/27/13	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0010	mg/l	8260B	08/27/13	1
Tetrachloroethene	0.028	0.0010	mg/l	8260B	08/27/13	1
Toluene	BDL	0.0050	mg/l	8260B	08/27/13	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,1,1-Trichloroethane	BDL	0.0010	mg/l	8260B	08/27/13	1
1,1,2-Trichloroethane	BDL	0.0010	mg/l	8260B	08/27/13	1
Trichloroethene	0.0040	0.0010	mg/l	8260B	08/27/13	1
Trichlorofluoromethane	BDL	0.0050	mg/l	8260B	08/27/13	1
1,2,3-Trichloropropane	BDL	0.0025	mg/l	8260B	08/27/13	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
Vinyl chloride	BDL	0.0010	mg/l	8260B	08/27/13	1
Xylenes, Total	BDL	0.0030	mg/l	8260B	08/27/13	1
Surrogate Recovery						
Toluene-d8	96.7		Rec.	8260B	08/27/13	1
Dibromofluoromethane	96.8		Rec.	8260B	08/27/13	1
4-Bromofluorobenzene	104.		Rec.	8260B	08/27/13	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

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REPORT OF ANALYSIS

Trey Noland
 Terracon Consultants - B-Ham AL.
 110 12th Street North
 Birmingham, AL 35203

August 29, 2013

Date Received : August 24, 2013
 Description : Aladdin Montclair
 Sample ID : DW-4
 Collected By : Brian Brown
 Collection Date : 08/22/13 18:13

ESC Sample # : L653972-09
 Site ID : IRONDALE, AL
 Project # : E1137123

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	0.050	mg/l	8260B	08/27/13	1
Acrolein	BDL	0.050	mg/l	8260B	08/27/13	1
Acrylonitrile	BDL	0.010	mg/l	8260B	08/27/13	1
Benzene	BDL	0.0010	mg/l	8260B	08/27/13	1
Bromobenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
Bromodichloromethane	BDL	0.0010	mg/l	8260B	08/27/13	1
Bromoform	BDL	0.0010	mg/l	8260B	08/27/13	1
Bromomethane	BDL	0.0050	mg/l	8260B	08/27/13	1
n-Butylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
sec-Butylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
tert-Butylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
Carbon tetrachloride	BDL	0.0010	mg/l	8260B	08/27/13	1
Chlorobenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
Chlorodibromomethane	BDL	0.0010	mg/l	8260B	08/27/13	1
Chloroethane	BDL	0.0050	mg/l	8260B	08/27/13	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	8260B	08/27/13	1
Chloroform	BDL	0.0050	mg/l	8260B	08/27/13	1
Chloromethane	BDL	0.0025	mg/l	8260B	08/27/13	1
2-Chlorotoluene	BDL	0.0010	mg/l	8260B	08/27/13	1
4-Chlorotoluene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,2-Dibromo-3-Chloropropane	BDL	0.0050	mg/l	8260B	08/27/13	1
1,2-Dibromoethane	BDL	0.0010	mg/l	8260B	08/27/13	1
Dibromomethane	BDL	0.0010	mg/l	8260B	08/27/13	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
Dichlorodifluoromethane	BDL	0.0050	mg/l	8260B	08/27/13	1
1,1-Dichloroethane	BDL	0.0010	mg/l	8260B	08/27/13	1
1,2-Dichloroethane	BDL	0.0010	mg/l	8260B	08/27/13	1
1,1-Dichloroethene	BDL	0.0010	mg/l	8260B	08/27/13	1
cis-1,2-Dichloroethene	0.0011	0.0010	mg/l	8260B	08/27/13	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,2-Dichloropropane	BDL	0.0010	mg/l	8260B	08/27/13	1
1,1-Dichloropropene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,3-Dichloropropane	BDL	0.0010	mg/l	8260B	08/27/13	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	08/27/13	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	08/27/13	1
2,2-Dichloropropane	BDL	0.0010	mg/l	8260B	08/27/13	1
Di-isopropyl ether	BDL	0.0010	mg/l	8260B	08/27/13	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
Hexachloro-1,3-butadiene	BDL	0.0010	mg/l	8260B	08/27/13	1
Isopropylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
p-Isopropyltoluene	BDL	0.0010	mg/l	8260B	08/27/13	1

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit (PQL)



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REPORT OF ANALYSIS

Trey Noland
 Terracon Consultants - B-Ham AL.
 110 12th Street North
 Birmingham, AL 35203

August 29, 2013

Date Received : August 24, 2013
 Description : Aladdin Montclair
 Sample ID : DW-4
 Collected By : Brian Brown
 Collection Date : 08/22/13 18:13

ESC Sample # : I653972-09
 Site ID : IRONDALE, AL
 Project # : E1137123

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2-Butanone (MEK)	BDL	0.010	mg/l	8260B	08/27/13	1
Methylene Chloride	BDL	0.0050	mg/l	8260B	08/27/13	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/l	8260B	08/27/13	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	08/27/13	1
Naphthalene	BDL	0.0050	mg/l	8260B	08/27/13	1
n-Propylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
Styrene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	08/27/13	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	08/27/13	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0010	mg/l	8260B	08/27/13	1
Tetrachloroethene	BDL	0.0010	mg/l	8260B	08/27/13	1
Toluene	BDL	0.0050	mg/l	8260B	08/27/13	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,1,1-Trichloroethane	BDL	0.0010	mg/l	8260B	08/27/13	1
1,1,2-Trichloroethane	BDL	0.0010	mg/l	8260B	08/27/13	1
Trichloroethene	BDL	0.0010	mg/l	8260B	08/27/13	1
Trichlorofluoromethane	BDL	0.0050	mg/l	8260B	08/27/13	1
1,2,3-Trichloropropane	BDL	0.0025	mg/l	8260B	08/27/13	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
Vinyl chloride	BDL	0.0010	mg/l	8260B	08/27/13	1
Xylenes, Total	BDL	0.0030	mg/l	8260B	08/27/13	1
Surrogate Recovery						
Toluene-d8	98.9		Rec.	8260B	08/27/13	1
Dibromofluoromethane	96.3		Rec.	8260B	08/27/13	1
4-Bromofluorobenzene	103.		Rec.	8260B	08/27/13	1

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit (PQL)
 Note:

The reported analytical results relate only to the sample submitted.
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REPORT OF ANALYSIS

August 29, 2013

Trey Noland
Terracon Consultants - B-Ham AL.
110 12th Street North
Birmingham, AL 35203

ESC Sample # : L653972-10

Date Received : August 24, 2013
Description : Aladdin Montclair

Site ID : IRONDALE, AL

Sample ID : DW-1-D

Project # : E1137123

Collected By : Brian Brown
Collection Date : 08/22/13 18:56

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	0.050	mg/l	8260B	08/27/13	1
Acrolein	BDL	0.050	mg/l	8260B	08/27/13	1
Acrylonitrile	BDL	0.010	mg/l	8260B	08/27/13	1
Benzene	BDL	0.0010	mg/l	8260B	08/27/13	1
Bromobenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
Bromodichloromethane	BDL	0.0010	mg/l	8260B	08/27/13	1
Bromoform	BDL	0.0010	mg/l	8260B	08/27/13	1
Bromomethane	BDL	0.0050	mg/l	8260B	08/27/13	1
n-Butylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
sec-Butylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
tert-Butylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
Carbon tetrachloride	BDL	0.0010	mg/l	8260B	08/27/13	1
Chlorobenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
Chlorodibromomethane	BDL	0.0010	mg/l	8260B	08/27/13	1
Chloroethane	BDL	0.0050	mg/l	8260B	08/27/13	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	8260B	08/27/13	1
Chloroform	BDL	0.0050	mg/l	8260B	08/27/13	1
Chloromethane	BDL	0.0025	mg/l	8260B	08/27/13	1
2-Chlorotoluene	BDL	0.0010	mg/l	8260B	08/27/13	1
4-Chlorotoluene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,2-Dibromo-3-Chloropropane	BDL	0.0050	mg/l	8260B	08/27/13	1
1,2-Dibromoethane	BDL	0.0010	mg/l	8260B	08/27/13	1
Dibromomethane	BDL	0.0010	mg/l	8260B	08/27/13	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
Dichlorodifluoromethane	BDL	0.0050	mg/l	8260B	08/27/13	1
1,1-Dichloroethane	BDL	0.0010	mg/l	8260B	08/27/13	1
1,2-Dichloroethane	BDL	0.0010	mg/l	8260B	08/27/13	1
1,1-Dichloroethene	BDL	0.0010	mg/l	8260B	08/27/13	1
cis-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	08/27/13	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,2-Dichloropropane	BDL	0.0010	mg/l	8260B	08/27/13	1
1,1-Dichloropropene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,3-Dichloropropane	BDL	0.0010	mg/l	8260B	08/27/13	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	08/27/13	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	08/27/13	1
2,2-Dichloropropane	BDL	0.0010	mg/l	8260B	08/27/13	1
Di-isopropyl ether	BDL	0.0010	mg/l	8260B	08/27/13	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
Hexachloro-1,3-butadiene	BDL	0.0010	mg/l	8260B	08/27/13	1
Isopropylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
p-Isopropyltoluene	BDL	0.0010	mg/l	8260B	08/27/13	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit (PQL)



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REPORT OF ANALYSIS

Trey Noland
 Terracon Consultants - B-Ham AL.
 110 12th Street North
 Birmingham, AL 35203

August 29, 2013

Date Received : August 24, 2013
 Description : Aladdin Montclair
 Sample ID : DW-1-D
 Collected By : Brian Brown
 Collection Date : 08/22/13 18:56

ESC Sample # : L653972-10

Site ID : IRONDALE, AL

Project # : E1137123

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2-Butanone (MEK)	BDL	0.010	mg/l	8260B	08/27/13	1
Methylene Chloride	BDL	0.0050	mg/l	8260B	08/27/13	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/l	8260B	08/27/13	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	08/27/13	1
Naphthalene	BDL	0.0050	mg/l	8260B	08/27/13	1
n-Propylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
Styrene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	08/27/13	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	08/27/13	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0010	mg/l	8260B	08/27/13	1
Tetrachloroethene	0.098	0.0010	mg/l	8260B	08/27/13	1
Toluene	BDL	0.0050	mg/l	8260B	08/27/13	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,1,1-Trichloroethane	BDL	0.0010	mg/l	8260B	08/27/13	1
1,1,2-Trichloroethane	BDL	0.0010	mg/l	8260B	08/27/13	1
Trichloroethene	0.0078	0.0010	mg/l	8260B	08/27/13	1
Trichlorofluoromethane	BDL	0.0050	mg/l	8260B	08/27/13	1
1,2,3-Trichloropropane	BDL	0.0025	mg/l	8260B	08/27/13	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
Vinyl chloride	BDL	0.0010	mg/l	8260B	08/27/13	1
Xylenes, Total	BDL	0.0030	mg/l	8260B	08/27/13	1
Surrogate Recovery						
Toluene-d8	96.3		‰ Rec.	8260B	08/27/13	1
Dibromofluoromethane	98.0		‰ Rec.	8260B	08/27/13	1
4-Bromofluorobenzene	102.		‰ Rec.	8260B	08/27/13	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

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REPORT OF ANALYSIS

August 29, 2013

Trey Noland
Terracon Consultants - B-Ham AL.
110 12th Street North
Birmingham, AL 35203

Date Received : August 24, 2013
Description : Aladdin Montclair
Sample ID : DUPLICATE
Collected By : Brian Brown
Collection Date : 08/22/13 00:00

ESC Sample # : L653972-11

Site ID : IRONDALE, AL

Project # : E1137123

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	0.050	mg/l	8260B	08/27/13	1
Acrolein	BDL	0.050	mg/l	8260B	08/27/13	1
Acrylonitrile	BDL	0.010	mg/l	8260B	08/27/13	1
Benzene	BDL	0.0010	mg/l	8260B	08/27/13	1
Bromobenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
Bromodichloromethane	BDL	0.0010	mg/l	8260B	08/27/13	1
Bromoform	BDL	0.0010	mg/l	8260B	08/27/13	1
Bromomethane	BDL	0.0050	mg/l	8260B	08/27/13	1
n-Butylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
sec-Butylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
tert-Butylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
Carbon tetrachloride	BDL	0.0010	mg/l	8260B	08/27/13	1
Chlorobenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
Chlorodibromomethane	BDL	0.0010	mg/l	8260B	08/27/13	1
Chloroethane	BDL	0.0050	mg/l	8260B	08/27/13	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	8260B	08/27/13	1
Chloroform	BDL	0.0050	mg/l	8260B	08/27/13	1
Chloromethane	BDL	0.0025	mg/l	8260B	08/27/13	1
2-Chlorotoluene	BDL	0.0010	mg/l	8260B	08/27/13	1
4-Chlorotoluene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,2-Dibromo-3-Chloropropane	BDL	0.0050	mg/l	8260B	08/27/13	1
1,2-Dibromoethane	BDL	0.0010	mg/l	8260B	08/27/13	1
Dibromomethane	BDL	0.0010	mg/l	8260B	08/27/13	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
Dichlorodifluoromethane	BDL	0.0050	mg/l	8260B	08/27/13	1
1,1-Dichloroethane	BDL	0.0010	mg/l	8260B	08/27/13	1
1,2-Dichloroethane	BDL	0.0010	mg/l	8260B	08/27/13	1
1,1-Dichloroethene	BDL	0.0010	mg/l	8260B	08/27/13	1
cis-1,2-Dichloroethene	0.0032	0.0010	mg/l	8260B	08/27/13	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,2-Dichloropropane	BDL	0.0010	mg/l	8260B	08/27/13	1
1,1-Dichloropropene	EDL	0.0010	mg/l	8260B	08/27/13	1
1,3-Dichloropropane	BDL	0.0010	mg/l	8260B	08/27/13	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	08/27/13	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	08/27/13	1
2,2-Dichloropropane	BDL	0.0010	mg/l	8260B	08/27/13	1
Di-isopropyl ether	BDL	0.0010	mg/l	8260B	08/27/13	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
Hexachloro-1,3-butadiene	BDL	0.0010	mg/l	8260B	08/27/13	1
Isopropylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
p-Isopropyltoluene	BDL	0.0010	mg/l	8260B	08/27/13	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit (PQL)



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REPORT OF ANALYSIS

Trey Noland
 Terracon Consultants - B-Ham AL.
 110 12th Street North
 Birmingham, AL 35203

August 29, 2013

Date Received : August 24, 2013
 Description : Aladdin Montclair
 Sample ID : DUPLICATE
 Collected By : Brian Brown
 Collection Date : 08/22/13 00:00

ESC Sample # : L653972-11
 Site ID : IRONDALE, AL
 Project # : E1137123

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2-Butanone (MEK)	BDL	0.010	mg/l	8260B	08/27/13	1
Methylene Chloride	BDL	0.0050	mg/l	8260B	08/27/13	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/l	8260B	08/27/13	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	08/27/13	1
Naphthalene	BDL	0.0050	mg/l	8260B	08/27/13	1
n-Propylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
Styrene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	08/27/13	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	08/27/13	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0010	mg/l	8260B	08/27/13	1
Tetrachloroethene	0.015	0.0010	mg/l	8260B	08/27/13	1
Toluene	BDL	0.0050	mg/l	8260B	08/27/13	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,1,1-Trichloroethane	BDL	0.0010	mg/l	8260B	08/27/13	1
1,1,2-Trichloroethane	BDL	0.0010	mg/l	8260B	08/27/13	1
Trichloroethene	0.0024	0.0010	mg/l	8260B	08/27/13	1
Trichlorofluoromethane	BDL	0.0050	mg/l	8260B	08/27/13	1
1,2,3-Trichloropropane	BDL	0.0025	mg/l	8260B	08/27/13	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/l	8260B	08/27/13	1
Vinyl chloride	BDL	0.0010	mg/l	8260B	08/27/13	1
Xylenes, Total	BDL	0.0030	mg/l	8260B	08/27/13	1
Surrogate Recovery						
Toluene-d8	97.9		Rec.	8260B	08/27/13	1
Dibromofluoromethane	96.5		Rec.	8260B	08/27/13	1
4-Bromofluorobenzene	104.		Rec.	8260B	08/27/13	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

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Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L653972-01	WG678737	SAMP	2-Chloroethyl vinyl ether	R2794681	J6

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

- Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.
- Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed
08/29/13 at 09:46:09

TSR Signing Reports: 350
R5 - Desired TAT

Dry wt; No 5035; Use PAHSIM for soils

Sample: L653972-01 Account: GALLET Received: 08/24/13 09:00 Due Date: 08/30/13 00:00 RPT Date: 08/29/13 09:45
Sample: L653972-02 Account: GALLET Received: 08/24/13 09:00 Due Date: 08/30/13 00:00 RPT Date: 08/29/13 09:45
Sample: L653972-03 Account: GALLET Received: 08/24/13 09:00 Due Date: 08/30/13 00:00 RPT Date: 08/29/13 09:45
Sample: L653972-04 Account: GALLET Received: 08/24/13 09:00 Due Date: 08/30/13 00:00 RPT Date: 08/29/13 09:45
Sample: L653972-05 Account: GALLET Received: 08/24/13 09:00 Due Date: 08/30/13 00:00 RPT Date: 08/29/13 09:45
Sample: L653972-06 Account: GALLET Received: 08/24/13 09:00 Due Date: 08/30/13 00:00 RPT Date: 08/29/13 09:45
Sample: L653972-07 Account: GALLET Received: 08/24/13 09:00 Due Date: 08/30/13 00:00 RPT Date: 08/29/13 09:45
Sample: L653972-08 Account: GALLET Received: 08/24/13 09:00 Due Date: 08/30/13 00:00 RPT Date: 08/29/13 09:45
Sample: L653972-09 Account: GALLET Received: 08/24/13 09:00 Due Date: 08/30/13 00:00 RPT Date: 08/29/13 09:45
Sample: L653972-10 Account: GALLET Received: 08/24/13 09:00 Due Date: 08/30/13 00:00 RPT Date: 08/29/13 09:45
Sample: L653972-11 Account: GALLET Received: 08/24/13 09:00 Due Date: 08/30/13 00:00 RPT Date: 08/29/13 09:45



Terracon Consultants - B-Ham AL.
 110 12th Street North
 Birmingham, AL 35203

Billing Information:
 Lisa Sharman
 110 12th Street North
 Birmingham, AL 35203

Report to: **Trey Noland**
 Email To: **wagnoland@terracon.com**

Project Description: **Aladdin Montclair**
 Client Project #: **E1137123**
 City/State Collected: **Irondale, AL**
 Lab Project #: _____
 P.O. #: _____

Collected by (print): **Brian Brown**
 Collected by (signature): *B-B*
 Immediately Packed on Ice Yes No

Rush? (Lab MUST Be Notified)
 Same Day200%
 Next Day100%
 Two Day50%
 Three Day25%

Sample ID	Comp/Grab	Matrix *	Depth	Date Results Needed		No. of Cntrs
				Email? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	FAX? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	
MW-1	Grab	GW	-	8/22/13	1759	2
MW-2			-		1805	2
MW-3			-		1841	2
MW-4			-		1835	2
MW-5			-		1828	2
MW-6			-		1820	2
MW-8			-		1751	2
DW-1			-		1849	2
DW-4			-		1813	2
DW-1-D			-		1856	2

* Matrix: **SS - Soil** GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other _____

pH _____ Temp _____

Flow _____ Other _____

Remarks: **5704 6055 2789**

Relinquished by: (Signature) *B-B* Date: **8/23/13** Time: **11:00**

Relinquished by: (Signature) _____ Date: _____ Time: _____

Relinquished by: (Signature) _____ Date: _____ Time: _____

Received by: (Signature) *[Signature]*

Received by: (Signature) _____

Received for lab by: (Signature) *Buy Nema*

Temp: **36** °C Bottles Received: **22**

Date: **8-24-13** Time: **0900**

Hold # _____ Condition: **F** (lab use only)

COC Seal Intact: Y N NA

pH Checked: _____ NCF: _____

Acctnum: **GALLET**
 Template: _____
 Prelogin: _____
 TSR: **350 - Jimmy Hunt**
 PB: _____
 Shipped Via: _____
 Rem./Contaminant: _____
 Sample # (lab only): **01, 02, 03, 04, 05, 06, 07, 08, 09, 10**



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Trey Noland
Terracon Consultants - B-Ham AL.
110 12th Street North
Birmingham, AL 35203

Report Summary

Tuesday December 03, 2013

Report Number: L670593

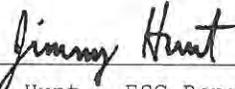
Samples Received: 11/23/13

Client Project: E1137127

Description: Aladdin Montclair

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:


Jimmy Hunt, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197,
FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016,
NC - ENV375/DW21704/BIO041, ND - R-140, NJ - TN002, NJ NELAP - TN002,
SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612,
MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1,
TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364, EPA - TN002

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Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

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REPORT OF ANALYSIS

Trey Noland
Terracon Consultants - B-Ham AL.
110 12th Street North
Birmingham, AL 35203

December 03, 2013

Date Received : November 23, 2013
Description : Aladdin Montclair
Sample ID : MW-1
Collected By : Brian Brown
Collection Date : 11/22/13 08:09

ESC Sample # : L670593-01

Site ID : IRONDALE, AL

Project # : E1137127

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	0.050	mg/l	8260B	12/01/13	1
Acrolein	BDL	0.050	mg/l	8260B	12/01/13	1
Acrylonitrile	BDL	0.010	mg/l	8260B	12/01/13	1
Benzene	BDL	0.0010	mg/l	8260B	12/01/13	1
Bromobenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
Bromodichloromethane	BDL	0.0010	mg/l	8260B	12/01/13	1
Bromoform	BDL	0.0010	mg/l	8260B	12/01/13	1
Bromomethane	BDL	0.0050	mg/l	8260B	12/01/13	1
n-Butylbenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
sec-Butylbenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
tert-Butylbenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
Carbon tetrachloride	BDL	0.0010	mg/l	8260B	12/01/13	1
Chlorobenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
Chlorodibromomethane	BDL	0.0010	mg/l	8260B	12/01/13	1
Chloroethane	BDL	0.0050	mg/l	8260B	12/01/13	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	8260B	12/01/13	1
Chloroform	BDL	0.0050	mg/l	8260B	12/01/13	1
Chloromethane	BDL	0.0025	mg/l	8260B	12/01/13	1
2-Chlorotoluene	BDL	0.0010	mg/l	8260B	12/01/13	1
4-Chlorotoluene	BDL	0.0010	mg/l	8260B	12/01/13	1
1,2-Dibromo-3-Chloropropane	BDL	0.0050	mg/l	8260B	12/01/13	1
1,2-Dibromoethane	BDL	0.0010	mg/l	8260B	12/01/13	1
Dibromomethane	BDL	0.0010	mg/l	8260B	12/01/13	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
Dichlorodifluoromethane	BDL	0.0050	mg/l	8260B	12/01/13	1
1,1-Dichloroethane	BDL	0.0010	mg/l	8260B	12/01/13	1
1,2-Dichloroethane	BDL	0.0010	mg/l	8260B	12/01/13	1
1,1-Dichloroethene	BDL	0.0010	mg/l	8260B	12/01/13	1
cis-1,2-Dichloroethene	0.0038	0.0010	mg/l	8260B	12/01/13	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	12/01/13	1
1,2-Dichloropropane	BDL	0.0010	mg/l	8260B	12/01/13	1
1,1-Dichloropropene	BDL	0.0010	mg/l	8260B	12/01/13	1
1,3-Dichloropropane	BDL	0.0010	mg/l	8260B	12/01/13	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	12/01/13	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	12/01/13	1
2,2-Dichloropropane	BDL	0.0010	mg/l	8260B	12/01/13	1
Di-isopropyl ether	BDL	0.0010	mg/l	8260B	12/01/13	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
Hexachloro-1,3-butadiene	BDL	0.0010	mg/l	8260B	12/01/13	1
Isopropylbenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
p-Isopropyltoluene	BDL	0.0010	mg/l	8260B	12/01/13	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit (PQL)



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REPORT OF ANALYSIS

Trey Noland
 Terracon Consultants - B-Ham AL.
 110 12th Street North
 Birmingham, AL 35203

December 03, 2013

Date Received : November 23, 2013
 Description : Aladdin Montclair
 Sample ID : MW-1
 Collected By : Brian Brown
 Collection Date : 11/22/13 08:09

ESC Sample # : L670593-01

Site ID : IRONDALE, AL

Project # : E1137127

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2-Butanone (MEK)	BDL	0.010	mg/l	8260B	12/01/13	1
Methylene Chloride	BDL	0.0050	mg/l	8260B	12/01/13	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/l	8260B	12/01/13	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	12/01/13	1
Naphthalene	BDL	0.0050	mg/l	8260B	12/01/13	1
n-Propylbenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
Styrene	BDL	0.0010	mg/l	8260B	12/01/13	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	12/01/13	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	12/01/13	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0010	mg/l	8260B	12/01/13	1
Tetrachloroethene	0.0043	0.0010	mg/l	8260B	12/01/13	1
Toluene	BDL	0.0050	mg/l	8250B	12/01/13	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
1,1,1-Trichloroethane	BDL	0.0010	mg/l	8260B	12/01/13	1
1,1,2-Trichloroethane	BDL	0.0010	mg/l	8260B	12/01/13	1
Trichloroethene	0.0053	0.0010	mg/l	8260B	12/01/13	1
Trichlorofluoromethane	BDL	0.0050	mg/l	8260B	12/01/13	1
1,2,3-Trichloropropane	BDL	0.0025	mg/l	8260B	12/01/13	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
Vinyl chloride	BDL	0.0010	mg/l	8260B	12/01/13	1
Xylenes, Total	BDL	0.0030	mg/l	8260B	12/01/13	1
Surrogate Recovery						
Toluene-d8	103.		% Rec.	8260B	12/01/13	1
Dibromofluoromethane	103.		% Rec.	8260B	12/01/13	1
4-Bromofluorobenzene	103.		% Rec.	8260B	12/01/13	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 12/02/13 17:21 Revised: 12/03/13 08:04



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REPORT OF ANALYSIS

Trey Noland
 Terracon Consultants - B-Ham AL.
 110 12th Street North
 Birmingham, AL 35203

December 03, 2013

Date Received : November 23, 2013
 Description : Aladdin Montclair
 Sample ID : MW-2
 Collected By : Brian Brown
 Collection Date : 11/22/13 08:54

ESC Sample # : L670593-02
 Site ID : IRONDALE, AL
 Project # : E1137127

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	0.050	mg/l	8260B	12/01/13	1
Acrolein	BDL	0.050	mg/l	8260B	12/01/13	1
Acrylonitrile	BDL	0.010	mg/l	8260B	12/01/13	1
Benzene	BDL	0.0010	mg/l	8260B	12/01/13	1
Bromobenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
Bromodichloromethane	BDL	0.0010	mg/l	8260B	12/01/13	1
Bromoform	BDL	0.0010	mg/l	8260B	12/01/13	1
Bromomethane	BDL	0.0050	mg/l	8260B	12/01/13	1
n-Butylbenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
sec-Butylbenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
tert-Butylbenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
Carbon tetrachloride	BDL	0.0010	mg/l	8260B	12/01/13	1
Chlorobenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
Chlorodibromomethane	BDL	0.0010	mg/l	8260B	12/01/13	1
Chloroethane	BDL	0.0050	mg/l	8260B	12/01/13	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	8260B	12/01/13	1
Chloroform	BDL	0.0050	mg/l	8260B	12/01/13	1
Chloromethane	BDL	0.0025	mg/l	8260B	12/01/13	1
2-Chlorotoluene	BDL	0.0010	mg/l	8260B	12/01/13	1
4-Chlorotoluene	BDL	0.0010	mg/l	8260B	12/01/13	1
1,2-Dibromo-3-Chloropropane	BDL	0.0050	mg/l	8260B	12/01/13	1
1,2-Dibromoethane	BDL	0.0010	mg/l	8260B	12/01/13	1
Dibromomethane	BDL	0.0010	mg/l	8260B	12/01/13	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
Dichlorodifluoromethane	BDL	0.0050	mg/l	8260B	12/01/13	1
1,1-Dichloroethane	BDL	0.0010	mg/l	8260B	12/01/13	1
1,2-Dichloroethane	BDL	0.0010	mg/l	8260B	12/01/13	1
1,1-Dichloroethene	BDL	0.0010	mg/l	8260B	12/01/13	1
cis-1,2-Dichloroethene	0.0017	0.0010	mg/l	8260B	12/01/13	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	12/01/13	1
1,2-Dichloropropane	BDL	0.0010	mg/l	8260B	12/01/13	1
1,1-Dichloropropene	BDL	0.0010	mg/l	8260B	12/01/13	1
1,3-Dichloropropane	BDL	0.0010	mg/l	8260B	12/01/13	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	12/01/13	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	12/01/13	1
2,2-Dichloropropane	BDL	0.0010	mg/l	8260B	12/01/13	1
Di-isopropyl ether	BDL	0.0010	mg/l	8260B	12/01/13	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
Hexachloro-1,3-butadiene	BDL	0.0010	mg/l	8260B	12/01/13	1
Isopropylbenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
p-Isopropyltoluene	BDL	0.0010	mg/l	8260B	12/01/13	1

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit (PQL)



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REPORT OF ANALYSIS

Trey Noland
 Terracon Consultants - B-Ham AL,
 110 12th Street North
 Birmingham, AL 35203

December 03, 2013

Date Received : November 23, 2013
 Description : Aladdin Montclair
 Sample ID : MW-2
 Collected By : Brian Brown
 Collection Date : 11/22/13 08:54

ESC Sample # : L670593-02

Site ID : IRONDALE, AL

Project # : E1137127

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2-Butanone (MEK)	BDL	0.010	mg/l	8260B	12/01/13	1
Methylene Chloride	BDL	0.0050	mg/l	8260B	12/01/13	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/l	8260B	12/01/13	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	12/01/13	1
Naphthalene	BDL	0.0050	mg/l	8260B	12/01/13	1
n-Propylbenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
Styrene	BDL	0.0010	mg/l	8260B	12/01/13	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	12/01/13	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	12/01/13	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0010	mg/l	8260B	12/01/13	1
Tetrachloroethene	0.0011	0.0010	mg/l	8260B	12/01/13	1
Toluene	BDL	0.0050	mg/l	8260B	12/01/13	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
1,1,1-Trichloroethane	BDL	0.0010	mg/l	8260B	12/01/13	1
1,1,2-Trichloroethane	BDL	0.0010	mg/l	8260B	12/01/13	1
Trichloroethene	BDL	0.0010	mg/l	8260B	12/01/13	1
Trichlorofluoromethane	BDL	0.0050	mg/l	8260B	12/01/13	1
1,2,3-Trichloropropane	BDL	0.0025	mg/l	8260B	12/01/13	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
Vinyl chloride	BDL	0.0010	mg/l	8260B	12/01/13	1
Xylenes, Total	BDL	0.0030	mg/l	8260B	12/01/13	1
Surrogate Recovery						
Toluene-d8	102.		Rec.	8260B	12/01/13	1
Dibromofluoromethane	103.		Rec.	8260B	12/01/13	1
4-Bromofluorobenzene	106.		Rec.	8260B	12/01/13	1

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit(PQL)
 Note:

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Reported: 12/02/13 17:21 Revised: 12/03/13 08:04



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REPORT OF ANALYSIS

December 03, 2013

Trey Noland
 Terracon Consultants - B-Ham AL.
 110 12th Street North
 Birmingham, AL 35203

Date Received : November 23, 2013
 Description : Aladdin Montclair
 Sample ID : MW-3
 Collected By : Brian Brown
 Collection Date : 11/22/13 06:17

ESC Sample # : L670593-03

Site ID : IRONDALE, AL

Project # : E1137127

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	0.050	mg/l	8260B	12/01/13	1
Acrolein	BDL	0.050	mg/l	8260B	12/01/13	1
Acrylonitrile	BDL	0.010	mg/l	8260B	12/01/13	1
Benzene	BDL	0.0010	mg/l	8260B	12/01/13	1
Bromobenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
Bromodichloromethane	BDL	0.0010	mg/l	8260B	12/01/13	1
Bromoform	BDL	0.0010	mg/l	8260B	12/01/13	1
Bromomethane	BDL	0.0050	mg/l	8260B	12/01/13	1
n-Butylbenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
sec-Butylbenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
tert-Butylbenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
Carbon tetrachloride	BDL	0.0010	mg/l	8260B	12/01/13	1
Chlorobenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
Chlorodibromomethane	BDL	0.0010	mg/l	8260B	12/01/13	1
Chloroethane	BDL	0.0050	mg/l	8260B	12/01/13	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	8260B	12/01/13	1
Chloroform	BDL	0.0050	mg/l	8260B	12/01/13	1
Chloromethane	BDL	0.0025	mg/l	8260B	12/01/13	1
2-Chlorotoluene	BDL	0.0010	mg/l	8260B	12/01/13	1
4-Chlorotoluene	BDL	0.0010	mg/l	8260B	12/01/13	1
1,2-Dibromo-3-Chloropropane	BDL	0.0050	mg/l	8260B	12/01/13	1
1,2-Dibromoethane	BDL	0.0010	mg/l	8260B	12/01/13	1
Dibromomethane	BDL	0.0010	mg/l	8260B	12/01/13	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
Dichlorodifluoromethane	BDL	0.0050	mg/l	8260B	12/01/13	1
1,1-Dichloroethane	BDL	0.0010	mg/l	8260B	12/01/13	1
1,2-Dichloroethane	BDL	0.0010	mg/l	8260B	12/01/13	1
1,1-Dichloroethene	BDL	0.0010	mg/l	8260B	12/01/13	1
cis-1,2-Dichloroethene	0.0013	0.0010	mg/l	8260B	12/01/13	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	12/01/13	1
1,2-Dichloropropane	BDL	0.0010	mg/l	8260B	12/01/13	1
1,1-Dichloropropene	BDL	0.0010	mg/l	8260B	12/01/13	1
1,3-Dichloropropane	BDL	0.0010	mg/l	8260B	12/01/13	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	12/01/13	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	12/01/13	1
2,2-Dichloropropane	BDL	0.0010	mg/l	8260B	12/01/13	1
Di-isopropyl ether	BDL	0.0010	mg/l	8260B	12/01/13	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
Hexachloro-1,3-butadiene	BDL	0.0010	mg/l	8260B	12/01/13	1
Isopropylbenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
p-Isopropyltoluene	BDL	0.0010	mg/l	8260B	12/01/13	1

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit (PQL)



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 Est. 1970

REPORT OF ANALYSIS

Trey Noland
 Terracon Consultants - B-Ham AL.
 110 12th Street North
 Birmingham, AL 35203

December 03, 2013

Date Received : November 23, 2013
 Description : Aladdin Montclair
 Sample ID : MW-3
 Collected By : Brian Brown
 Collection Date : 11/22/13 06:17

ESC Sample # : L670593-03
 Site ID : IRONDALE, AL
 Project # : E1137127

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2-Butanone (MEK)	BDL	0.010	mg/l	8260B	12/01/13	1
Methylene Chloride	BDL	0.0050	mg/l	8260B	12/01/13	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/l	8260B	12/01/13	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	12/01/13	1
Naphthalene	BDL	0.0050	mg/l	8260B	12/01/13	1
n-Propylbenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
Styrene	BDL	0.0010	mg/l	8260B	12/01/13	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	12/01/13	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	12/01/13	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0010	mg/l	8260B	12/01/13	1
Tetrachloroethene	0.0077	0.0010	mg/l	8260B	12/01/13	1
Toluene	BDL	0.0050	mg/l	8260B	12/01/13	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
1,1,1-Trichloroethane	BDL	0.0010	mg/l	8260B	12/01/13	1
1,1,2-Trichloroethane	BDL	0.0010	mg/l	8260B	12/01/13	1
Trichloroethene	0.0024	0.0010	mg/l	8260B	12/01/13	1
Trichlorofluoromethane	BDL	0.0050	mg/l	8260B	12/01/13	1
1,2,3-Trichloropropane	BDL	0.0025	mg/l	8260B	12/01/13	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
Vinyl chloride	BDL	0.0010	mg/l	8260B	12/01/13	1
Xylenes, Total	BDL	0.0030	mg/l	8260B	12/01/13	1
Surrogate Recovery						
Toluene-d8	103.		Rec.	8260B	12/01/13	1
Dibromofluoromethane	102.		Rec.	8260B	12/01/13	1
4-Bromofluorobenzene	104.		Rec.	8260B	12/01/13	1

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit (PQL)
 Note:
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REPORT OF ANALYSIS

Trey Noland
 Terracon Consultants - B-Ham AL.
 110 12th Street North
 Birmingham, AL 35203

December 03, 2013

Date Received : November 23, 2013
 Description : Aladdin Montclair
 Sample ID : MW-4
 Collected By : Brian Brown
 Collection Date : 11/22/13 06:47

ESC Sample # : L670593-04

Site ID : IRONDALE, AL

Project # : E1137127

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	0.050	mg/l	8260B	12/01/13	1
Acrolein	BDL	0.050	mg/l	8260B	12/01/13	1
Acrylonitrile	BDL	0.010	mg/l	8260B	12/01/13	1
Benzene	BDL	0.0010	mg/l	8260B	12/01/13	1
Bromobenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
Bromodichloromethane	BDL	0.0010	mg/l	8260B	12/01/13	1
Bromoform	BDL	0.0010	mg/l	8260B	12/01/13	1
Bromomethane	BDL	0.0050	mg/l	8260B	12/01/13	1
n-Butylbenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
sec-Butylbenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
tert-Butylbenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
Carbon tetrachloride	BDL	0.0010	mg/l	8260B	12/01/13	1
Chlorobenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
Chlorodibromomethane	BDL	0.0010	mg/l	8260B	12/01/13	1
Chloroethane	BDL	0.0050	mg/l	8260B	12/01/13	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	8260B	12/01/13	1
Chloroform	BDL	0.0050	mg/l	8260B	12/01/13	1
Chloromethane	BDL	0.0025	mg/l	8260B	12/01/13	1
2-Chlorotoluene	BDL	0.0010	mg/l	8260B	12/01/13	1
4-Chlorotoluene	BDL	0.0010	mg/l	8260B	12/01/13	1
1,2-Dibromo-3-Chloropropane	BDL	0.0050	mg/l	8260B	12/01/13	1
1,2-Dibromoethane	BDL	0.0010	mg/l	8260B	12/01/13	1
Dibromomethane	BDL	0.0010	mg/l	8260B	12/01/13	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
Dichlorodifluoromethane	BDL	0.0050	mg/l	8260B	12/01/13	1
1,1-Dichloroethane	BDL	0.0010	mg/l	8260B	12/01/13	1
1,2-Dichloroethane	BDL	0.0010	mg/l	8260B	12/01/13	1
1,1-Dichloroethene	BDL	0.0010	mg/l	8260B	12/01/13	1
cis-1,2-Dichloroethene	0.0032	0.0010	mg/l	8260B	12/01/13	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	12/01/13	1
1,2-Dichloropropane	BDL	0.0010	mg/l	8260B	12/01/13	1
1,1-Dichloropropene	BDL	0.0010	mg/l	8260B	12/01/13	1
1,3-Dichloropropane	BDL	0.0010	mg/l	8260B	12/01/13	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	12/01/13	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	12/01/13	1
2,2-Dichloropropane	BDL	0.0010	mg/l	8260B	12/01/13	1
Di-isopropyl ether	BDL	0.0010	mg/l	8260B	12/01/13	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
Hexachloro-1,3-butadiene	BDL	0.0010	mg/l	8260B	12/01/13	1
Isopropylbenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
p-Isopropyltoluene	BDL	0.0010	mg/l	8260B	12/01/13	1

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit (PQL)



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REPORT OF ANALYSIS

December 03, 2013

Trey Noland
 Terracon Consultants - B-Ham AL.
 110 12th Street North
 Birmingham, AL 35203

Date Received : November 23, 2013
 Description : Aladdin Montclair
 Sample ID : MW-4
 Collected By : Brian Brown
 Collection Date : 11/22/13 06:47

ESC Sample # : L670593-04
 Site ID : IRONDALE, AL
 Project # : E1137127

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2-Butanone (MEK)	BDL	0.010	mg/l	8260B	12/01/13	1
Methylene Chloride	BDL	0.0050	mg/l	8260B	12/01/13	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/l	8260B	12/01/13	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	12/01/13	1
Naphthalene	BDL	0.0050	mg/l	8260B	12/01/13	1
n-Propylbenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
Styrene	BDL	0.0010	mg/l	8260B	12/01/13	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	12/01/13	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	12/01/13	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0010	mg/l	8260B	12/01/13	1
Tetrachloroethene	BDL	0.0010	mg/l	8260B	12/01/13	1
Toluene	BDL	0.0050	mg/l	8260B	12/01/13	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
1,1,1-Trichloroethane	BDL	0.0010	mg/l	8260B	12/01/13	1
1,1,2-Trichloroethane	BDL	0.0010	mg/l	8260B	12/01/13	1
Trichloroethene	BDL	0.0010	mg/l	8260B	12/01/13	1
Trichlorofluoromethane	BDL	0.0050	mg/l	8260B	12/01/13	1
1,2,3-Trichloropropane	BDL	0.0025	mg/l	8260B	12/01/13	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
Vinyl chloride	0.0010	0.0010	mg/l	8260B	12/01/13	1
Xylenes, Total	BDL	0.0030	mg/l	8260B	12/01/13	1
Surrogate Recovery						
Toluene-d8	103.		Rec.	8260B	12/01/13	1
Dibromofluoromethane	102.		Rec.	8260B	12/01/13	1
4-Bromofluorobenzene	104.		Rec.	8260B	12/01/13	1

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit(PQL)
 Note:

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REPORT OF ANALYSIS

Trey Noland
Terracon Consultants - B-Ham AL.
110 12th Street North
Birmingham, AL 35203

December 03, 2013

Date Received : November 23, 2013
Description : Aladdin Montclair
Sample ID : MW-5
Collected By : Brian Brown
Collection Date : 11/22/13 06:58

ESC Sample # : L670593-05

Site ID : IRONDALE, AL

Project # : E1137127

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	0.050	mg/l	8260B	12/01/13	1
Acrolein	BDL	0.050	mg/l	8260B	12/01/13	1
Acrylonitrile	BDL	0.010	mg/l	8260B	12/01/13	1
Benzene	BDL	0.0010	mg/l	8260B	12/01/13	1
Bromobenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
Bromodichloromethane	BDL	0.0010	mg/l	8260B	12/01/13	1
Bromoform	BDL	0.0010	mg/l	8260B	12/01/13	1
Bromomethane	BDL	0.0050	mg/l	8260B	12/01/13	1
n-Butylbenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
sec-Butylbenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
tert-Butylbenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
Carbon tetrachloride	BDL	0.0010	mg/l	8260B	12/01/13	1
Chlorobenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
Chlorodibromomethane	BDL	0.0010	mg/l	8260B	12/01/13	1
Chloroethane	BDL	0.0050	mg/l	8260B	12/01/13	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	8260B	12/01/13	1
Chloroform	BDL	0.0050	mg/l	8260B	12/01/13	1
Chloromethane	BDL	0.0025	mg/l	8260B	12/01/13	1
2-Chlorotoluene	BDL	0.0010	mg/l	8260B	12/01/13	1
4-Chlorotoluene	BDL	0.0010	mg/l	8260B	12/01/13	1
1,2-Dibromo-3-Chloropropane	BDL	0.0050	mg/l	8260B	12/01/13	1
1,2-Dibromoethane	BDL	0.0010	mg/l	8260B	12/01/13	1
Dibromomethane	BDL	0.0010	mg/l	8260B	12/01/13	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
Dichlorodifluoromethane	BDL	0.0050	mg/l	8260B	12/01/13	1
1,1-Dichloroethane	BDL	0.0010	mg/l	8260B	12/01/13	1
1,2-Dichloroethane	BDL	0.0010	mg/l	8260B	12/01/13	1
1,1-Dichloroethene	BDL	0.0010	mg/l	8260B	12/01/13	1
cis-1,2-Dichloroethene	0.0037	0.0010	mg/l	8260B	12/01/13	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	12/01/13	1
1,2-Dichloropropane	BDL	0.0010	mg/l	8260B	12/01/13	1
1,1-Dichloropropene	BDL	0.0010	mg/l	8260B	12/01/13	1
1,3-Dichloropropane	BDL	0.0010	mg/l	8260B	12/01/13	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	12/01/13	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	12/01/13	1
2,2-Dichloropropane	BDL	0.0010	mg/l	8260B	12/01/13	1
Di-isopropyl ether	BDL	0.0010	mg/l	8260B	12/01/13	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
Hexachloro-1,3-butadiene	BDL	0.0010	mg/l	8260B	12/01/13	1
Isopropylbenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
p-Isopropyltoluene	BDL	0.0010	mg/l	8260B	12/01/13	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)



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REPORT OF ANALYSIS

Trey Noland
 Terracon Consultants - B-Ham AL
 110 12th Street North
 Birmingham, AL 35203

December 03, 2013

Date Received : November 23, 2013
 Description : Aladdin Montclair

ESC Sample # : L670593-05

Sample ID : MW-5

Site ID : IRONDALE, AL

Collected By : Brian Brown
 Collection Date : 11/22/13 06:58

Project # : E1137127

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2-Butanone (MEK)	BDL	0.010	mg/l	8260B	12/01/13	1
Methylene Chloride	BDL	0.0050	mg/l	8260B	12/01/13	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/l	8260B	12/01/13	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	12/01/13	1
Naphthalene	BDL	0.0050	mg/l	8260B	12/01/13	1
n-Propylbenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
Styrene	BDL	0.0010	mg/l	8260B	12/01/13	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	12/01/13	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	12/01/13	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0010	mg/l	8260B	12/01/13	1
Tetrachloroethene	BDL	0.0010	mg/l	8260B	12/01/13	1
Toluene	BDL	0.0050	mg/l	8260B	12/01/13	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
1,1,1-Trichloroethane	BDL	0.0010	mg/l	8260B	12/01/13	1
1,1,2-Trichloroethane	BDL	0.0010	mg/l	8260B	12/01/13	1
Trichloroethene	BDL	0.0010	mg/l	8260B	12/01/13	1
Trichlorofluoromethane	BDL	0.0050	mg/l	8260B	12/01/13	1
1,2,3-Trichloropropane	BDL	0.0025	mg/l	8260B	12/01/13	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
Vinyl chloride	BDL	0.0010	mg/l	8260B	12/01/13	1
Xylenes, Total	BDL	0.0030	mg/l	8260B	12/01/13	1
Surrogate Recovery						
Toluene-d8	102.		Rec.	8260B	12/01/13	1
Dibromofluoromethane	103.		Rec.	8260B	12/01/13	1
4-Bromofluorobenzene	103.		Rec.	8260B	12/01/13	1

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit(PQL)

Note:

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REPORT OF ANALYSIS

Trey Noland
 Terracon Consultants - B-Ham AL.
 110 12th Street North
 Birmingham, AL 35203

December 03, 2013

Date Received : November 23, 2013
 Description : Aladdin Montclair
 Sample ID : MW-6
 Collected By : Brian Brown
 Collection Date : 11/22/13 07:19

ESC Sample # : I670593-06
 Site ID : IRONDALE, AL
 Project # : E1137127

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	0.050	mg/l	8260B	12/01/13	1
Acrolein	BDL	0.050	mg/l	8260B	12/01/13	1
Acrylonitrile	BDL	0.010	mg/l	8260B	12/01/13	1
Benzene	BDL	0.0010	mg/l	8260B	12/01/13	1
Bromobenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
Bromodichloromethane	BDL	0.0010	mg/l	8260B	12/01/13	1
Bromoform	BDL	0.0010	mg/l	8260B	12/01/13	1
Bromomethane	BDL	0.0050	mg/l	8260B	12/01/13	1
n-Butylbenzene	EDL	0.0010	mg/l	8260B	12/01/13	1
sec-Butylbenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
tert-Butylbenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
Carbon tetrachloride	BDL	0.0010	mg/l	8260B	12/01/13	1
Chlorobenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
Chlorodibromomethane	BDL	0.0010	mg/l	8260B	12/01/13	1
Chloroethane	BDL	0.0050	mg/l	8260B	12/01/13	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	8260B	12/01/13	1
Chloroform	BDL	0.0050	mg/l	8260B	12/01/13	1
Chloromethane	BDL	0.0025	mg/l	8260B	12/01/13	1
2-Chlorotoluene	BDL	0.0010	mg/l	8260B	12/01/13	1
4-Chlorotoluene	BDL	0.0010	mg/l	8260B	12/01/13	1
1,2-Dibromo-3-Chloropropane	BDL	0.0050	mg/l	8260B	12/01/13	1
1,2-Dibromoethane	BDL	0.0010	mg/l	8260B	12/01/13	1
Dibromomethane	BDL	0.0010	mg/l	8260B	12/01/13	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
Dichlorodifluoromethane	BDL	0.0050	mg/l	8260B	12/01/13	1
1,1-Dichloroethane	BDL	0.0010	mg/l	8260B	12/01/13	1
1,2-Dichloroethane	BDL	0.0010	mg/l	8260B	12/01/13	1
1,1-Dichloroethene	BDL	0.0010	mg/l	8260B	12/01/13	1
cis-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	12/01/13	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	12/01/13	1
1,2-Dichloropropane	BDL	0.0010	mg/l	8260B	12/01/13	1
1,1-Dichloropropene	EDL	0.0010	mg/l	8260B	12/01/13	1
1,3-Dichloropropane	BDL	0.0010	mg/l	8260B	12/01/13	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	12/01/13	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	12/01/13	1
2,2-Dichloropropane	BDL	0.0010	mg/l	8260B	12/01/13	1
Di-isopropyl ether	BDL	0.0010	mg/l	8260B	12/01/13	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
Hexachloro-1,3-butadiene	BDL	0.0010	mg/l	8260B	12/01/13	1
Isopropylbenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
p-Isopropyltoluene	BDL	0.0010	mg/l	8260B	12/01/13	1

EDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit (PQL)



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Est. 1970

REPORT OF ANALYSIS

Trey Noland
 Terracon Consultants - B-Ham AL
 110 12th Street North
 Birmingham, AL 35203

December 03, 2013

Date Received : November 23, 2013
 Description : Aladdin Montclair

ESC Sample # : L670593-06

Sample ID : MW-6

Site ID : IRONDALE, AL

Collected By : Erian Brown
 Collection Date : 11/22/13 07:19

Project # : E1137127

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2-Butanone (MEK)	BDL	0.010	mg/l	8260B	12/01/13	1
Methylene Chloride	BDL	0.0050	mg/l	8260B	12/01/13	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/l	8260B	12/01/13	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	12/01/13	1
Naphthalene	BDL	0.0050	mg/l	8260B	12/01/13	1
n-Propylbenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
Styrene	BDL	0.0010	mg/l	8260B	12/01/13	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	12/01/13	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	12/01/13	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0010	mg/l	8260B	12/01/13	1
Tetrachloroethene	BDL	0.0010	mg/l	8260B	12/01/13	1
Toluene	BDL	0.0050	mg/l	8260B	12/01/13	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
1,1,1-Trichloroethane	BDL	0.0010	mg/l	8260B	12/01/13	1
1,1,2-Trichloroethane	BDL	0.0010	mg/l	8260B	12/01/13	1
Trichloroethene	BDL	0.0010	mg/l	8260B	12/01/13	1
Trichlorofluoromethane	BDL	0.0050	mg/l	8260B	12/01/13	1
1,2,3-Trichloropropane	BDL	0.0025	mg/l	8260B	12/01/13	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
Vinyl chloride	BDL	0.0010	mg/l	8260B	12/01/13	1
Xylenes, Total	BDL	0.0030	mg/l	8260B	12/01/13	1
Surrogate Recovery						
Toluene-d8	102.		Rec.	8260B	12/01/13	1
Dibromofluoromethane	103.		Rec.	8260B	12/01/13	1
4-Bromofluorobenzene	105.		Rec.	8260B	12/01/13	1

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit (PQL)
 Note:

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Reported: 12/02/13 17:21 Revised: 12/03/13 08:05



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REPORT OF ANALYSIS

Trey Noland
 Terracon Consultants - B-Ham AL.
 110 12th Street North
 Birmingham, AL 35203

December 03, 2013

Date Received : November 23, 2013
 Description : Aladdin Montclair
 Sample ID : MW-8
 Collected By : Brian Brown
 Collection Date : 11/22/13 08:16

ESC Sample # : L670593-07

Site ID : IRONDALE, AL

Project # : E1137127

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	0.050	mg/l	8260B	12/01/13	1
Acrolein	BDL	0.050	mg/l	8260B	12/01/13	1
Acrylonitrile	BDL	0.010	mg/l	8260B	12/01/13	1
Benzene	BDL	0.0010	mg/l	8260B	12/01/13	1
Bromobenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
Bromodichloromethane	BDL	0.0010	mg/l	8260B	12/01/13	1
Bromoform	BDL	0.0010	mg/l	8260B	12/01/13	1
Bromomethane	BDL	0.0050	mg/l	8260B	12/01/13	1
n-Butylbenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
sec-Butylbenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
tert-Butylbenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
Carbon tetrachloride	BDL	0.0010	mg/l	8260B	12/01/13	1
Chlorobenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
Chlorodibromomethane	BDL	0.0010	mg/l	8260B	12/01/13	1
Chloroethane	BDL	0.0050	mg/l	8260B	12/01/13	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	8260B	12/01/13	1
Chloroform	BDL	0.0050	mg/l	8260B	12/01/13	1
Chloromethane	BDL	0.0025	mg/l	8260B	12/01/13	1
2-Chlorotoluene	BDL	0.0010	mg/l	8260B	12/01/13	1
4-Chlorotoluene	BDL	0.0010	mg/l	8260B	12/01/13	1
1,2-Dibromo-3-Chloropropane	BDL	0.0050	mg/l	8260B	12/01/13	1
1,2-Dibromoethane	BDL	0.0010	mg/l	8260B	12/01/13	1
Dibromomethane	BDL	0.0010	mg/l	8260B	12/01/13	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
Dichlorodifluoromethane	BDL	0.0050	mg/l	8260B	12/01/13	1
1,1-Dichloroethane	BDL	0.0010	mg/l	8260B	12/01/13	1
1,2-Dichloroethane	BDL	0.0010	mg/l	8260B	12/01/13	1
1,1-Dichloroethene	BDL	0.0010	mg/l	8260B	12/01/13	1
cis-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	12/01/13	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	12/01/13	1
1,2-Dichloropropane	BDL	0.0010	mg/l	8260B	12/01/13	1
1,1-Dichloropropene	BDL	0.0010	mg/l	8260B	12/01/13	1
1,3-Dichloropropane	BDL	0.0010	mg/l	8260B	12/01/13	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	12/01/13	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	12/01/13	1
2,2-Dichloropropane	BDL	0.0010	mg/l	8260B	12/01/13	1
Di-isopropyl ether	BDL	0.0010	mg/l	8260B	12/01/13	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
Hexachloro-1,3-butadiene	BDL	0.0010	mg/l	8260B	12/01/13	1
Isopropylbenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
p-Isopropyltoluene	BDL	0.0010	mg/l	8260B	12/01/13	1

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit (PQL)



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REPORT OF ANALYSIS

Trey Noland
Terracon Consultants - B-Ham AL.
110 12th Street North
Birmingham, AL 35203

December 03, 2013

Date Received : November 23, 2013
Description : Aladdin Montclair
Sample ID : MW-8
Collected By : Brian Brown
Collection Date : 11/22/13 08:16

ESC Sample # : L670593-07

Site ID : IRONDALE, AL

Project # : E1137127

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2-Butanone (MEK)	BDL	0.010	mg/l	8260B	12/01/13	1
Methylene Chloride	BDL	0.0050	mg/l	8260B	12/01/13	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/l	8260B	12/01/13	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	12/01/13	1
Naphthalene	BDL	0.0050	mg/l	8260B	12/01/13	1
n-Propylbenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
Styrene	BDL	0.0010	mg/l	8260B	12/01/13	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	12/01/13	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	12/01/13	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0010	mg/l	8260B	12/01/13	1
Tetrachloroethene	0.0031	0.0010	mg/l	8260B	12/01/13	1
Toluene	BDL	0.0050	mg/l	8260B	12/01/13	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
1,1,1-Trichloroethane	BDL	0.0010	mg/l	8260B	12/01/13	1
1,1,2-Trichloroethane	BDL	0.0010	mg/l	8260B	12/01/13	1
Trichloroethene	BDL	0.0010	mg/l	8260B	12/01/13	1
Trichlorofluoromethane	BDL	0.0050	mg/l	8260B	12/01/13	1
1,2,3-Trichloropropane	BDL	0.0025	mg/l	8260B	12/01/13	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/l	8260B	12/01/13	1
Vinyl chloride	BDL	0.0010	mg/l	8260B	12/01/13	1
Xylenes, Total	BDL	0.0030	mg/l	8260B	12/01/13	1
Surrogate Recovery						
Toluene-d8	102.		% Rec.	8260B	12/01/13	1
Dibromofluoromethane	102.		% Rec.	8260B	12/01/13	1
4-Bromofluorobenzene	105.		% Rec.	8260B	12/01/13	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:

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REPORT OF ANALYSIS

Trey Noland
 Terracon Consultants - B-Ham AL.
 110 12th Street North
 Birmingham, AL 35203

December 03, 2013

Date Received : November 23, 2013
 Description : Aladdin Montclair
 Sample ID : DW-1
 Collected By : Brian Brown
 Collection Date : 11/22/13 06:26

ESC Sample # : L670593-08

Site ID : IRONDALE, AL

Project # : E1137127

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	0.050	mg/l	8260B	11/28/13	1
Acrolein	BDL	0.050	mg/l	8260B	11/28/13	1
Acrylonitrile	BDL	0.010	mg/l	8260B	11/28/13	1
Benzene	BDL	0.0010	mg/l	8260B	11/28/13	1
Bromobenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
Bromodichloromethane	BDL	0.0010	mg/l	8260B	11/28/13	1
Bromoform	BDL	0.0010	mg/l	8260B	11/28/13	1
Bromomethane	BDL	0.0050	mg/l	8260B	11/28/13	1
n-Butylbenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
sec-Butylbenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
tert-Butylbenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
Carbon tetrachloride	BDL	0.0010	mg/l	8260B	11/28/13	1
Chlorobenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
Chlorodibromomethane	BDL	0.0010	mg/l	8260B	11/28/13	1
Chloroethane	BDL	0.0050	mg/l	8260B	11/28/13	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	8260B	11/28/13	1
Chloroform	BDL	0.0050	mg/l	8260B	11/28/13	1
Chloromethane	BDL	0.0025	mg/l	8260B	11/28/13	1
2-Chlorotoluene	BDL	0.0010	mg/l	8260B	11/28/13	1
4-Chlorotoluene	BDL	0.0010	mg/l	8260B	11/28/13	1
1,2-Dibromo-3-Chloropropane	EDL	0.0050	mg/l	8260B	11/28/13	1
1,2-Dibromoethane	BDL	0.0010	mg/l	8260B	11/28/13	1
Dibromomethane	BDL	0.0010	mg/l	8260B	11/28/13	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
Dichlorodifluoromethane	BDL	0.0050	mg/l	8260B	11/28/13	1
1,1-Dichloroethane	BDL	0.0010	mg/l	8260B	11/28/13	1
1,2-Dichloroethane	BDL	0.0010	mg/l	8260B	11/28/13	1
1,1-Dichloroethene	BDL	0.0010	mg/l	8260B	11/28/13	1
cis-1,2-Dichloroethene	0.013	0.0010	mg/l	8260B	11/28/13	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	11/28/13	1
1,2-Dichloropropane	BDL	0.0010	mg/l	8260B	11/28/13	1
1,1-Dichloropropene	BDL	0.0010	mg/l	8260B	11/28/13	1
1,3-Dichloropropane	BDL	0.0010	mg/l	8260B	11/28/13	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	11/28/13	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	11/28/13	1
2,2-Dichloropropane	BDL	0.0010	mg/l	8260B	11/28/13	1
Di-isopropyl ether	BDL	0.0010	mg/l	8260B	11/28/13	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
Hexachloro-1,3-butadiene	BDL	0.0010	mg/l	8260B	11/28/13	1
Isopropylbenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
p-Isopropyltoluene	BDL	0.0010	mg/l	8260B	11/28/13	1

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit (PQL)



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REPORT OF ANALYSIS

Trey Noland
 Terracon Consultants - B-Ham AL.
 110 12th Street North
 Birmingham, AL 35203

December 03, 2013

Date Received : November 23, 2013
 Description : Aladdin Montclair
 Sample ID : DW-1
 Collected By : Brian Brown
 Collection Date : 11/22/13 06:26

ESC Sample # : L670593-08
 Site ID : IRONDALE, AL
 Project # : E1137127

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2-Butanone (MEK)	BDL	0.010	mg/l	8260B	11/28/13	1
Methylene Chloride	BDL	0.0050	mg/l	8260B	11/28/13	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/l	8260B	11/28/13	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	11/28/13	1
Naphthalene	BDL	0.0050	mg/l	8260B	11/28/13	1
n-Propylbenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
Styrene	BDL	0.0010	mg/l	8260B	11/28/13	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	11/28/13	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	11/28/13	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0010	mg/l	8260B	11/28/13	1
Tetrachloroethene	0.026	0.0010	mg/l	8260B	11/28/13	1
Toluene	BDL	0.0050	mg/l	8260B	11/28/13	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
1,1,1-Trichloroethane	BDL	0.0010	mg/l	8260B	11/28/13	1
1,1,2-Trichloroethane	BDL	0.0010	mg/l	8260B	11/28/13	1
Trichloroethene	0.0038	0.0010	mg/l	8260B	11/28/13	1
Trichlorofluoromethane	BDL	0.0050	mg/l	8260B	11/28/13	1
1,2,3-Trichloropropane	BDL	0.0025	mg/l	8260B	11/28/13	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
Vinyl chloride	BDL	0.0010	mg/l	8260B	11/28/13	1
Xylenes, Total	BDL	0.0030	mg/l	8260B	11/28/13	1
Surrogate Recovery						
Toluene-d8	102.		Rec.	8260B	11/28/13	1
Dibromofluoromethane	98.7		Rec.	8260B	11/28/13	1
4-Bromofluorobenzene	104.		Rec.	8260B	11/28/13	1

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit (PQL)
 Note:

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Reported: 12/02/13 17:21 Revised: 12/03/13 08:05



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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

December 03, 2013

Trey Noland
 Terracon Consultants - B-Ham AL.
 110 12th Street North
 Birmingham, AL 35203

Date Received : November 23, 2013
 Description : Aladdin Montclair
 Sample ID : DW-2
 Collected By : Brian Brown
 Collection Date : 11/22/13 07:11

ESC Sample # : L670593-09

Site ID : IRONDALE, AL

Project # : E1137127

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	0.050	mg/l	8260B	11/28/13	1
Acrolein	BDL	0.050	mg/l	8260B	11/28/13	1
Acrylonitrile	BDL	0.010	mg/l	8260B	11/28/13	1
Benzene	BDL	0.0010	mg/l	8260B	11/28/13	1
Bromobenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
Bromodichloromethane	BDL	0.0010	mg/l	8260B	11/28/13	1
Bromoform	BDL	0.0010	mg/l	8260B	11/28/13	1
Bromomethane	BDL	0.0050	mg/l	8260B	11/28/13	1
n-Butylbenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
sec-Butylbenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
tert-Butylbenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
Carbon tetrachloride	BDL	0.0010	mg/l	8260B	11/28/13	1
Chlorobenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
Chlorodibromomethane	BDL	0.0010	mg/l	8260B	11/28/13	1
Chloroethane	BDL	0.0050	mg/l	8260B	11/28/13	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	8260B	11/28/13	1
Chloroform	BDL	0.0050	mg/l	8260B	11/28/13	1
Chloromethane	BDL	0.0025	mg/l	8260B	11/28/13	1
2-Chlorotoluene	BDL	0.0010	mg/l	8260B	11/28/13	1
4-Chlorotoluene	BDL	0.0010	mg/l	8260B	11/28/13	1
1,2-Dibromo-3-Chloropropane	BDL	0.0050	mg/l	8260B	11/28/13	1
1,2-Dibromoethane	BDL	0.0010	mg/l	8260B	11/28/13	1
Dibromomethane	BDL	0.0010	mg/l	8260B	11/28/13	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
Dichlorodifluoromethane	BDL	0.0050	mg/l	8260B	11/28/13	1
1,1-Dichloroethane	BDL	0.0010	mg/l	8260B	11/28/13	1
1,2-Dichloroethane	BDL	0.0010	mg/l	8260B	11/28/13	1
1,1-Dichloroethene	BDL	0.0010	mg/l	8260B	11/28/13	1
cis-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	11/28/13	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	11/28/13	1
1,2-Dichloropropane	BDL	0.0010	mg/l	8260B	11/28/13	1
1,1-Dichloropropene	BDL	0.0010	mg/l	8260B	11/28/13	1
1,3-Dichloropropane	BDL	0.0010	mg/l	8260B	11/28/13	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	11/28/13	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	11/28/13	1
2,2-Dichloropropane	BDL	0.0010	mg/l	8260B	11/28/13	1
Di-isopropyl ether	BDL	0.0010	mg/l	8260B	11/28/13	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
Hexachloro-1,3-butadiene	BDL	0.0010	mg/l	8260B	11/28/13	1
Isopropylbenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
p-Isopropyltoluene	BDL	0.0010	mg/l	8260B	11/28/13	1

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit(PQL)



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Est. 1970

REPORT OF ANALYSIS

Trey Noland
 Terracon Consultants - B-Ham AL.
 110 12th Street North
 Birmingham, AL 35203

December 03, 2013

Date Received : November 23, 2013
 Description : Aladdin Montclair
 Sample ID : DW-2
 Collected By : Brian Brown
 Collection Date : 11/22/13 07:11

ESC Sample # : L670593-09

Site ID : IRONDALE, AL

Project # : E1137127

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2-Butanone (MEK)	BDL	0.010	mg/l	8260B	11/28/13	1
Methylene Chloride	BDL	0.0050	mg/l	8260B	11/28/13	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/l	8260B	11/28/13	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	11/28/13	1
Naphthalene	BDL	0.0050	mg/l	8260B	11/28/13	1
n-Propylbenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
Styrene	BDL	0.0010	mg/l	8260B	11/28/13	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	11/28/13	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	11/28/13	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0010	mg/l	8260B	11/28/13	1
Tetrachloroethene	0.0011	0.0010	mg/l	8260B	11/28/13	1
Toluene	BDL	0.0050	mg/l	8260B	11/28/13	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
1,1,1-Trichloroethane	BDL	0.0010	mg/l	8260B	11/28/13	1
1,1,2-Trichloroethane	BDL	0.0010	mg/l	8260B	11/28/13	1
Trichloroethene	0.0014	0.0010	mg/l	8260B	11/28/13	1
Trichlorofluoromethane	BDL	0.0050	mg/l	8260B	11/28/13	1
1,2,3-Trichloropropane	BDL	0.0025	mg/l	8260B	11/28/13	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
Vinyl chloride	BDL	0.0010	mg/l	8260B	11/28/13	1
Xylenes, Total	BDL	0.0030	mg/l	8260B	11/28/13	1
Surrogate Recovery						
Toluene-d8	101.		Rec.	8260B	11/28/13	1
Dibromofluoromethane	98.9		Rec.	8260B	11/28/13	1
4-Bromofluorobenzene	105.		Rec.	8260B	11/28/13	1

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit (PQL)

Note:

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Reported: 12/02/13 17:21 Revised: 12/03/13 08:05



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Est. 1970

REPORT OF ANALYSIS

Trey Noland
 Terracon Consultants - B-Ham AL.
 110 12th Street North
 Birmingham, AL 35203

December 03, 2013

Date Received : November 23, 2013
 Description : Aladdin Montclair
 Sample ID : DW-3
 Collected By : Brian Brown
 Collection Date : 11/22/13 07:59

ESC Sample # : L670593-10

Site ID : IRONDALE, AL

Project # : E1137127

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	0.050	mg/l	8260B	11/28/13	1
Acrolein	BDL	0.050	mg/l	8260B	11/28/13	1
Acrylonitrile	BDL	0.010	mg/l	8260B	11/28/13	1
Benzene	BDL	0.0010	mg/l	8260B	11/28/13	1
Bromobenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
Bromodichloromethane	BDL	0.0010	mg/l	8260B	11/28/13	1
Bromoform	BDL	0.0010	mg/l	8260B	11/28/13	1
Bromomethane	BDL	0.0050	mg/l	8260B	11/28/13	1
n-Butylbenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
sec-Butylbenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
tert-Butylbenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
Carbon tetrachloride	BDL	0.0010	mg/l	8260B	11/28/13	1
Chlorobenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
Chlorodibromomethane	BDL	0.0010	mg/l	8260B	11/28/13	1
Chloroethane	BDL	0.0050	mg/l	8260B	11/28/13	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	8260B	11/28/13	1
Chloroform	BDL	0.0050	mg/l	8260B	11/28/13	1
Chloromethane	BDL	0.0025	mg/l	8260B	11/28/13	1
2-Chlorotoluene	BDL	0.0010	mg/l	8260B	11/28/13	1
4-Chlorotoluene	BDL	0.0010	mg/l	8260B	11/28/13	1
1,2-Dibromo-3-Chloropropane	BDL	0.0050	mg/l	8260B	11/28/13	1
1,2-Dibromoethane	BDL	0.0010	mg/l	8260B	11/28/13	1
Dibromomethane	BDL	0.0010	mg/l	8260B	11/28/13	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
Dichlorodifluoromethane	BDL	0.0050	mg/l	8260B	11/28/13	1
1,1-Dichloroethane	BDL	0.0010	mg/l	8260B	11/28/13	1
1,2-Dichloroethane	BDL	0.0010	mg/l	8260B	11/28/13	1
1,1-Dichloroethene	BDL	0.0010	mg/l	8260B	11/28/13	1
cis-1,2-Dichloroethene	0.0027	0.0010	mg/l	8260B	11/28/13	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	11/28/13	1
1,2-Dichloropropane	BDL	0.0010	mg/l	8260B	11/28/13	1
1,1-Dichloropropene	BDL	0.0010	mg/l	8260B	11/28/13	1
1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	11/28/13	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	11/28/13	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	11/28/13	1
2,2-Dichloropropane	BDL	0.0010	mg/l	8260B	11/28/13	1
Di-isopropyl ether	BDL	0.0010	mg/l	8260B	11/28/13	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
Hexachloro-1,3-butadiene	BDL	0.0010	mg/l	8260B	11/28/13	1
Isopropylbenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
p-Isopropyltoluene	BDL	0.0010	mg/l	8260B	11/28/13	1

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit (PQL)



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Test I.D. 62-0014289

Est. 1970

REPORT OF ANALYSIS

Trey Noland
 Terracon Consultants - B-Ham AL.
 110 12th Street North
 Birmingham, AL 35203

December 03, 2013

Date Received : November 23, 2013
 Description : Aladdin Montclair
 Sample ID : DW-3
 Collected By : Brian Brown
 Collection Date : 11/22/13 07:59

ESC Sample # : L670593-10
 Site ID : IRONDALE, AL
 Project # : E1137127

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2-Butanone (MEK)	BDL	0.010	mg/l	8260B	11/28/13	1
Methylene Chloride	BDL	0.0050	mg/l	8260B	11/28/13	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/l	8260B	11/28/13	1
Methyl tert-butyl ether	0.0020	0.0010	mg/l	8260B	11/28/13	1
Naphthalene	BDL	0.0050	mg/l	8260B	11/28/13	1
n-Propylbenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
Styrene	BDL	0.0010	mg/l	8260B	11/28/13	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	11/28/13	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	11/28/13	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0010	mg/l	8260B	11/28/13	1
Tetrachloroethene	0.029	0.0010	mg/l	8260B	11/28/13	1
Toluene	BDL	0.0050	mg/l	8260B	11/28/13	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
1,1,1-Trichloroethane	BDL	0.0010	mg/l	8260B	11/28/13	1
1,1,2-Trichloroethane	BDL	0.0010	mg/l	8260B	11/28/13	1
Trichloroethene	0.0025	0.0010	mg/l	8260B	11/28/13	1
Trichlorofluoromethane	BDL	0.0050	mg/l	8260B	11/28/13	1
1,2,3-Trichloropropane	BDL	0.0025	mg/l	8260B	11/28/13	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
Vinyl chloride	BDL	0.0010	mg/l	8260B	11/28/13	1
Xylenes, Total	BDL	0.0030	mg/l	8260B	11/28/13	1
Surrogate Recovery						
Toluene-d8	103.		Rec.	8260B	11/28/13	1
Dibromofluoromethane	98.1		Rec.	8260B	11/28/13	1
4-Bromofluorobenzene	103.		Rec.	8260B	11/28/13	1

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit (PQL)
 Note:

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Est. 1970

REPORT OF ANALYSIS

Trey Noland
 Terracon Consultants - B-Ham AL.
 110 12th Street North
 Birmingham, AL 35203

December 03, 2013

Date Received : November 23, 2013
 Description : Aladdin Montclair
 Sample ID : DW-4
 Collected By : Brian Brown
 Collection Date : 11/22/13 09:30

ESC Sample # : L670593-11
 Site ID : IRONDALE, AL
 Project # : E1137127

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	0.050	mg/l	8260B	11/28/13	1
Acrolein	BDL	0.050	mg/l	8260B	11/28/13	1
Acrylonitrile	BDL	0.010	mg/l	8260B	11/28/13	1
Benzene	BDL	0.0010	mg/l	8260B	11/28/13	1
Bromobenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
Bromodichloromethane	BDL	0.0010	mg/l	8260B	11/28/13	1
Bromoform	BDL	0.0010	mg/l	8260B	11/28/13	1
Bromomethane	BDL	0.0050	mg/l	8260B	11/28/13	1
n-Butylbenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
sec-Butylbenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
tert-Butylbenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
Carbon tetrachloride	BDL	0.0010	mg/l	8260B	11/28/13	1
Chlorobenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
Chlorodibromomethane	BDL	0.0010	mg/l	8260B	11/28/13	1
Chloroethane	BDL	0.0050	mg/l	8260B	11/28/13	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	8260B	11/28/13	1
Chloroform	BDL	0.0050	mg/l	8260B	11/28/13	1
Chloromethane	BDL	0.0025	mg/l	8260B	11/28/13	1
2-Chlorotoluene	BDL	0.0010	mg/l	8260B	11/28/13	1
4-Chlorotoluene	BDL	0.0010	mg/l	8260B	11/28/13	1
1,2-Dibromo-3-Chloropropane	BDL	0.0050	mg/l	8260B	11/28/13	1
1,2-Dibromoethane	BDL	0.0010	mg/l	8260B	11/28/13	1
Dibromomethane	BDL	0.0010	mg/l	8260B	11/28/13	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
Dichlorodifluoromethane	BDL	0.0050	mg/l	8260B	11/28/13	1
1,1-Dichloroethane	BDL	0.0010	mg/l	8260B	11/28/13	1
1,2-Dichloroethane	BDL	0.0010	mg/l	8260B	11/28/13	1
1,1-Dichloroethene	BDL	0.0010	mg/l	8260B	11/28/13	1
cis-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	11/28/13	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	11/28/13	1
1,2-Dichloropropane	BDL	0.0010	mg/l	8260B	11/28/13	1
1,1-Dichloropropene	BDL	0.0010	mg/l	8260B	11/28/13	1
1,3-Dichloropropane	BDL	0.0010	mg/l	8260B	11/28/13	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	11/28/13	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	11/28/13	1
2,2-Dichloropropane	BDL	0.0010	mg/l	8260B	11/28/13	1
Di-isopropyl ether	BDL	0.0010	mg/l	8260B	11/28/13	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
Hexachloro-1,3-butadiene	BDL	0.0010	mg/l	8260B	11/28/13	1
Isopropylbenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
p-Isopropyltoluene	BDL	0.0010	mg/l	8260B	11/28/13	1

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit(PQL)



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Est. 1976

REPORT OF ANALYSIS

Trey Noland
 Terracon Consultants - B-Ham AL.
 110 12th Street North
 Birmingham, AL 35203

December 03, 2013

Date Received : November 23, 2013
 Description : Aladdin Montclair
 Sample ID : DW-4
 Collected By : Brian Brown
 Collection Date : 11/22/13 09:30

ESC Sample # : L670593-11

Site ID : IRONDALE, AL

Project # : E1137127

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2-Butanone (MEK)	BDL	0.010	mg/l	8260B	11/28/13	1
Methylene Chloride	BDL	0.0050	mg/l	8260B	11/28/13	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/l	8260B	11/28/13	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	11/28/13	1
Naphthalene	BDL	0.0050	mg/l	8260B	11/28/13	1
n-Propylbenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
Styrene	BDL	0.0010	mg/l	8260B	11/28/13	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	11/28/13	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	11/28/13	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0010	mg/l	8260B	11/28/13	1
Tetrachloroethene	BDL	0.0010	mg/l	8260B	11/28/13	1
Toluene	BDL	0.0050	mg/l	8260B	11/28/13	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
1,1,1-Trichloroethane	BDL	0.0010	mg/l	8260B	11/28/13	1
1,1,2-Trichloroethane	BDL	0.0010	mg/l	8260B	11/28/13	1
Trichloroethene	BDL	0.0010	mg/l	8260B	11/28/13	1
Trichlorofluoromethane	BDL	0.0050	mg/l	8260B	11/28/13	1
1,2,3-Trichloropropane	BDL	0.0025	mg/l	8260B	11/28/13	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
Vinyl chloride	BDL	0.0010	mg/l	8260B	11/28/13	1
Xylenes, Total	BDL	0.0030	mg/l	8260B	11/28/13	1
Surrogate Recovery						
Toluene-d8	103.		§ Rec.	8260B	11/28/13	1
Dibromofluoromethane	98.1		§ Rec.	8260B	11/28/13	1
4-Bromofluorobenzene	102.		§ Rec.	8260B	11/28/13	1

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit (PQL)

Note:
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Reported: 12/02/13 17:21 Revised: 12/03/13 08:05



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Est. 1970

REPORT OF ANALYSIS

Trey Noland
 Terracon Consultants - B-Ham AL.
 110 12th Street North
 Birmingham, AL 35203

December 03, 2013

Date Received : November 23, 2013
 Description : Aladdin Montclair
 Sample ID : DW-1-D
 Collected By : Brian Brown
 Collection Date : 11/22/13 06:34

ESC Sample # : L670593-12

Site ID : IRONDALE, AL

Project # : E1137127

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	0.050	mg/l	8260B	11/28/13	1
Acrolein	BDL	0.050	mg/l	8260B	11/28/13	1
Acrylonitrile	BDL	0.010	mg/l	8260B	11/28/13	1
Benzene	BDL	0.0010	mg/l	8260B	11/28/13	1
Bromobenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
Bromodichloromethane	BDL	0.0010	mg/l	8260B	11/28/13	1
Bromoform	BDL	0.0010	mg/l	8260B	11/28/13	1
Bromomethane	BDL	0.0050	mg/l	8260B	11/28/13	1
n-Butylbenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
sec-Butylbenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
tert-Butylbenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
Carbon tetrachloride	BDL	0.0010	mg/l	8260B	11/28/13	1
Chlorobenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
Chlorodibromomethane	BDL	0.0010	mg/l	8260B	11/28/13	1
Chloroethane	BDL	0.0050	mg/l	8260B	11/28/13	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	8260B	11/28/13	1
Chloroform	BDL	0.0050	mg/l	8260B	11/28/13	1
Chloromethane	BDL	0.0025	mg/l	8260B	11/28/13	1
2-Chlorotoluene	BDL	0.0010	mg/l	8260B	11/28/13	1
4-Chlorotoluene	BDL	0.0010	mg/l	8260B	11/28/13	1
1,2-Dibromo-3-Chloropropane	BDL	0.0050	mg/l	8260B	11/28/13	1
1,2-Dibromoethane	BDL	0.0010	mg/l	8260B	11/28/13	1
Dibromomethane	BDL	0.0010	mg/l	8260B	11/28/13	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
Dichlorodifluoromethane	BDL	0.0050	mg/l	8260B	11/28/13	1
1,1-Dichloroethane	BDL	0.0010	mg/l	8260B	11/28/13	1
1,2-Dichloroethane	BDL	0.0010	mg/l	8260B	11/28/13	1
1,1-Dichloroethene	BDL	0.0010	mg/l	8260B	11/28/13	1
cis-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	11/28/13	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	11/28/13	1
1,2-Dichloropropane	BDL	0.0010	mg/l	8260B	11/28/13	1
1,1-Dichloropropene	BDL	0.0010	mg/l	8260B	11/28/13	1
1,3-Dichloropropane	BDL	0.0010	mg/l	8260B	11/28/13	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	11/28/13	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	11/28/13	1
2,2-Dichloropropane	BDL	0.0010	mg/l	8260B	11/28/13	1
Di-isopropyl ether	BDL	0.0010	mg/l	8260B	11/28/13	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
Hexachloro-1,3-butadiene	BDL	0.0010	mg/l	8260B	11/28/13	1
Isopropylbenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
p-Isopropyltoluene	BDL	0.0010	mg/l	8260B	11/28/13	1

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit (PQL)



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REPORT OF ANALYSIS

Trey Noland
 Terracon Consultants - B-Ham AL
 110 12th Street North
 Birmingham, AL 35203

December 03, 2013

Date Received : November 23, 2013
 Description : Aladdin Montclair
 Sample ID : DW-1-D
 Collected By : Brian Brown
 Collection Date : 11/22/13 06:34

ESC Sample # : L670593-12
 Site ID : IRONDALE, AL
 Project # : E1137127

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2-Butanone (MEK)	BDL	0.010	mg/l	8260B	11/28/13	1
Methylene Chloride	BDL	0.0050	mg/l	8260B	11/28/13	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/l	8260B	11/28/13	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	11/28/13	1
Naphthalene	BDL	0.0050	mg/l	8260B	11/28/13	1
n-Propylbenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
Styrene	BDL	0.0010	mg/l	8260B	11/28/13	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	11/28/13	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	11/28/13	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0010	mg/l	8260B	11/28/13	1
Tetrachloroethene	0.086	0.0010	mg/l	8260B	11/28/13	1
Toluene	BDL	0.0050	mg/l	8260B	11/28/13	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
1,1,1-Trichloroethane	BDL	0.0010	mg/l	8260B	11/28/13	1
1,1,2-Trichloroethane	BDL	0.0010	mg/l	8260B	11/28/13	1
Trichloroethene	0.0073	0.0010	mg/l	8260B	11/28/13	1
Trichlorofluoromethane	BDL	0.0050	mg/l	8260B	11/28/13	1
1,2,3-Trichloropropane	BDL	0.0025	mg/l	8260B	11/28/13	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
Vinyl chloride	BDL	0.0010	mg/l	8260B	11/28/13	1
Xylenes, Total	BDL	0.0030	mg/l	8260B	11/28/13	1
Surrogate Recovery						
Toluene-d8	102.			Rec. 8260B	11/28/13	1
Dibromofluoromethane	97.8			Rec. 8260B	11/28/13	1
4-Bromofluorobenzene	97.7			Rec. 8260B	11/28/13	1

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit (PQL)

Note:

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REPORT OF ANALYSIS

December 03, 2013

Trey Noland
 Terracon Consultants - B-Ham AL.
 110 12th Street North
 Birmingham, AL 35203

ESC Sample # : L670593-13

Date Received : November 23, 2013
 Description : Aladdin Montclair

Site ID : IRONDALE, AL

Sample ID : PURGE WATER

Project # : E1137127

Collected By : Brian Brown
 Collection Date : 11/22/13 09:39

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	0.050	mg/l	8260B	11/28/13	1
Acrolein	BDL	0.050	mg/l	8260B	11/28/13	1
Acrylonitrile	BDL	0.010	mg/l	8260B	11/28/13	1
Benzene	BDL	0.0010	mg/l	8260B	11/28/13	1
Bromobenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
Bromodichloromethane	BDL	0.0010	mg/l	8260B	11/28/13	1
Bromoform	BDL	0.0010	mg/l	8260B	11/28/13	1
Bromomethane	BDL	0.0050	mg/l	8260B	11/28/13	1
n-Butylbenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
sec-Butylbenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
tert-Butylbenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
Carbon tetrachloride	BDL	0.0010	mg/l	8260B	11/28/13	1
Chlorobenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
Chlorodibromomethane	BDL	0.0010	mg/l	8260B	11/28/13	1
Chloroethane	BDL	0.0050	mg/l	8260B	11/28/13	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	8260B	11/28/13	1
Chloroform	BDL	0.0050	mg/l	8260B	11/28/13	1
Chloromethane	BDL	0.0025	mg/l	8260B	11/28/13	1
2-Chlorotoluene	BDL	0.0010	mg/l	8260B	11/28/13	1
4-Chlorotoluene	BDL	0.0010	mg/l	8260B	11/28/13	1
1,2-Dibromo-3-Chloropropane	BDL	0.0050	mg/l	8260B	11/28/13	1
1,2-Dibromoethane	BDL	0.0010	mg/l	8260B	11/28/13	1
Dibromomethane	BDL	0.0010	mg/l	8260B	11/28/13	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
Dichlorodifluoromethane	BDL	0.0050	mg/l	8260B	11/28/13	1
1,1-Dichloroethane	BDL	0.0010	mg/l	8260B	11/28/13	1
1,2-Dichloroethane	BDL	0.0010	mg/l	8260B	11/28/13	1
1,1-Dichloroethene	BDL	0.0010	mg/l	8260B	11/28/13	1
cis-1,2-Dichloroethene	0.0031	0.0010	mg/l	8260B	11/28/13	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	11/28/13	1
1,2-Dichloropropane	BDL	0.0010	mg/l	8260B	11/28/13	1
1,1-Dichloropropene	BDL	0.0010	mg/l	8260B	11/28/13	1
1,3-Dichloropropane	BDL	0.0010	mg/l	8260B	11/28/13	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	8250B	11/28/13	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	11/28/13	1
2,2-Dichloropropane	BDL	0.0010	mg/l	8260B	11/28/13	1
Di-isopropyl ether	BDL	0.0010	mg/l	8260B	11/28/13	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
Hexachloro-1,3-butadiene	BDL	0.0010	mg/l	8260B	11/28/13	1
Isopropylbenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
p-Isopropyltoluene	BDL	0.0010	mg/l	8260B	11/28/13	1

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit(PQL)



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REPORT OF ANALYSIS

December 03, 2013

Trey Noland
 Terracon Consultants - B-Ham AL.
 110 12th Street North
 Birmingham, AL 35203

Date Received : November 23, 2013
 Description : Aladdin Montclair
 Sample ID : PURGE WATER
 Collected By : Brian Brown
 Collection Date : 11/22/13 09:39

ESC Sample # : L670593-13

Site ID : IRONDALE, AL

Project # : E1137127

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2-Butanone (MEK)	BDL	0.010	mg/l	8260B	11/28/13	1
Methylene Chloride	BDL	0.0050	mg/l	8260B	11/28/13	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/l	8260B	11/28/13	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	11/28/13	1
Naphthalene	BDL	0.0050	mg/l	8260B	11/28/13	1
n-Propylbenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
Styrene	BDL	0.0010	mg/l	8260B	11/28/13	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	11/28/13	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	11/28/13	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0010	mg/l	8260B	11/28/13	1
Tetrachloroethene	0.021	0.0010	mg/l	8260B	11/28/13	1
Toluene	BDL	0.0050	mg/l	8260B	11/28/13	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
1,1,1-Trichloroethane	BDL	0.0010	mg/l	8260B	11/28/13	1
1,1,2-Trichloroethane	BDL	0.0010	mg/l	8260B	11/28/13	1
Trichloroethene	0.0024	0.0010	mg/l	8260B	11/28/13	1
Trichlorofluoromethane	BDL	0.0050	mg/l	8260B	11/28/13	1
1,2,3-Trichloropropane	BDL	0.0025	mg/l	8260B	11/28/13	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
Vinyl chloride	BDL	0.0010	mg/l	8260B	11/28/13	1
Xylenes, Total	BDL	0.0030	mg/l	8260B	11/28/13	1
Surrogate Recovery						
Toluene-d8	103.		Rec.	8260B	11/28/13	1
Dibromofluoromethane	96.2		Rec.	8260B	11/28/13	1
4-Bromofluorobenzene	98.9		Rec.	8260B	11/28/13	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

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REPORT OF ANALYSIS

Trey Noland
 Terracon Consultants - B-Ham AL.
 110 12th Street North
 Birmingham, AL 35203

December 03, 2013

Date Received : November 23, 2013
 Description : Aladdin Montclair
 Sample ID : DUPLICATE
 Collected By : Brian Brown
 Collection Date : 11/22/13 00:00

ESC Sample # : L670593-14

Site ID : IRONDALE, AL

Project # : E1137127

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	0.050	mg/l	8260B	11/28/13	1
Acrolein	BDL	0.050	mg/l	8260B	11/28/13	1
Acrylonitrile	BDL	0.010	mg/l	8260B	11/28/13	1
Benzene	BDL	0.0010	mg/l	8260B	11/28/13	1
Bromobenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
Bromodichloromethane	BDL	0.0010	mg/l	8260B	11/28/13	1
Bromoform	BDL	0.0010	mg/l	8260B	11/28/13	1
Bromomethane	BDL	0.0050	mg/l	8260B	11/28/13	1
n-Butylbenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
sec-Butylbenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
tert-Butylbenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
Carbon tetrachloride	BDL	0.0010	mg/l	8260B	11/28/13	1
Chlorobenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
Chlorodibromomethane	BDL	0.0010	mg/l	8260B	11/28/13	1
Chloroethane	BDL	0.0050	mg/l	8260B	11/28/13	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	8260B	11/28/13	1
Chloroform	BDL	0.0050	mg/l	8260B	11/28/13	1
Chloromethane	BDL	0.0025	mg/l	8260B	11/28/13	1
2-Chlorotoluene	BDL	0.0010	mg/l	8260B	11/28/13	1
4-Chlorotoluene	BDL	0.0010	mg/l	8260B	11/28/13	1
1,2-Dibromo-3-Chloropropane	BDL	0.0050	mg/l	8260B	11/28/13	1
1,2-Dibromoethane	BDL	0.0010	mg/l	8260B	11/28/13	1
Dibromomethane	BDL	0.0010	mg/l	8260B	11/28/13	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
Dichlorodifluoromethane	BDL	0.0050	mg/l	8260B	11/28/13	1
1,1-Dichloroethane	BDL	0.0010	mg/l	8260B	11/28/13	1
1,2-Dichloroethane	BDL	0.0010	mg/l	8260B	11/28/13	1
1,1-Dichloroethene	BDL	0.0010	mg/l	8260B	11/28/13	1
cis-1,2-Dichloroethene	0.0040	0.0010	mg/l	8260B	11/28/13	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	11/28/13	1
1,2-Dichloropropane	BDL	0.0010	mg/l	8260B	11/28/13	1
1,1-Dichloropropene	BDL	0.0010	mg/l	8260B	11/28/13	1
1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	11/28/13	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	11/28/13	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	11/28/13	1
2,2-Dichloropropane	BDL	0.0010	mg/l	8260B	11/28/13	1
Di-isopropyl ether	BDL	0.0010	mg/l	8260B	11/28/13	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
Hexachloro-1,3-butadiene	BDL	0.0010	mg/l	8260B	11/28/13	1
Isopropylbenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
p-Isopropyltoluene	BDL	0.0010	mg/l	8260B	11/28/13	1

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit (PQL)



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REPORT OF ANALYSIS

Trey Noland
 Terracon Consultants - B-Ham AL.
 110 12th Street North
 Birmingham, AL 35203

December 03, 2013

Date Received : November 23, 2013
 Description : Aladdin Montclair
 Sample ID : DUPLICATE
 Collected By : Brian Brown
 Collection Date : 11/22/13 00:00

ESC Sample # : L670593-14

Site ID : IRONDALE, AL

Project # : E1137127

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2-Butanone (MEK)	BDL	0.010	mg/l	8260B	11/28/13	1
Methylene Chloride	BDL	0.0050	mg/l	8260B	11/28/13	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/l	8260B	11/28/13	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	11/28/13	1
Naphthalene	BDL	0.0050	mg/l	8260B	11/28/13	1
n-Propylbenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
Styrene	BDL	0.0010	mg/l	8260B	11/28/13	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	11/28/13	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	11/28/13	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0010	mg/l	8260B	11/28/13	1
Tetrachloroethene	BDL	0.0010	mg/l	8260B	11/28/13	1
Toluene	BDL	0.0050	mg/l	8260B	11/28/13	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
1,1,1-Trichloroethane	BDL	0.0010	mg/l	8260B	11/28/13	1
1,1,2-Trichloroethane	BDL	0.0010	mg/l	8260B	11/28/13	1
Trichloroethene	BDL	0.0010	mg/l	8260B	11/28/13	1
Trichlorofluoromethane	BDL	0.0050	mg/l	8260B	11/28/13	1
1,2,3-Trichloropropane	BDL	0.0025	mg/l	8260B	11/28/13	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/l	8260B	11/28/13	1
Vinyl chloride	0.0015	0.0010	mg/l	8260B	11/28/13	1
Xylenes, Total	BDL	0.0030	mg/l	8260B	11/28/13	1
Surrogate Recovery						
Toluene-d8	103.		Rec.	8260B	11/28/13	1
Dibromofluoromethane	98.8		Rec.	8260B	11/28/13	1
4-Bromofluorobenzene	104.		Rec.	8260B	11/28/13	1

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit (PQL)
 Note:

The reported analytical results relate only to the sample submitted.
 This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 12/02/13 17:21 Revised: 12/03/13 08:05



12065 Lebanon Rd
 Mount Juliet, TN 37122
 Phone: 615-758-5858
 Phone: 800-767-5859
 Fax: 615-758-5859

L# **G70593**

Table # **F202**

Account: **GALLET**
 Template:
 Prelogin:
 TSR: **350 - Jimmy Hunt**
 PB:
 Shipped Via:

Rem./Contaminant	Sample # (lab only)
	-01
	-02
	-03
	-04
	-05
	-06
	-07
	-08
	-09
	-10

Analysis / Container / Preservative

Billing Information:
Lisa Sharman
 110 12th Street North
 Birmingham, AL 35203

Email To: **wynoland@terracon.com**

City/State Collected: **Irondale, AL**

Lab Project #

P.O. #

Date Results Needed
 Email? No Yes
 FAX? No Yes

Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs
Grab	GW		11/22/13	0809	2
				0854	2
				0617	2
				0647	2
				0658	2
				0719	2
				0816	2
				0626	2
				0711	2
				0759	2

Terracon Consultants - B-Ham AL.
 110 12th Street North
 Birmingham, AL 35203

Report to: **Trey Noland**

Project Description: **Aladdin Montclair**

Client Project # **E1137127**

Site/Facility ID #

Rush? (Lab MUST Be Notified)
 Same Day200%
 Next Day100%
 Two Day50%
 Three Day25%

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time
MW-1	Grab	GW		11/22/13	0809
MW-2					0854
MW-3					0617
MW-4					0647
MW-5					0658
MW-6					0719
MW-8					0816
DW-1					0626
DW-2					0711
DW-3					0759

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other

Remarks: **5600-3981 5820**

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
<i>[Signature]</i>	11/22/13	10:30	<i>[Signature]</i>		
<i>[Signature]</i>			<i>[Signature]</i>		
<i>[Signature]</i>			<i>[Signature]</i>		

pH _____ Temp _____

Flow _____ Other _____

Samples returned via: UPS FedEx Courier

Temp: **3.8** °C Bottles Received: **28VP**
 Date: **11/23/13** Time: **0900**

Hold #	Condition:
	<input checked="" type="checkbox"/> (lab use only)
COC Seal Intact:	Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA
pH Checked:	NCF: YES

BTEX, MTBE, Naph



NON-CONFORMANCE FORM

Login No.: 670593

Date: 11-23-13

Evaluated by: J. Fuller

Client: GALLET

Non-Conformance (check applicable items)

- Parameter(s) past holding time
- Improper temperature
- Improper container type
- Improper preservation
- Container lid not intact
- Login Clarification Needed
- Chain of custody is incomplete
- Chain of Custody is missing (see below)
- Broken container(s) (See below)
- Broken container: sufficient sample volume remains for analysis requested (See below)

If no COC: Received by _____
 Date: _____ Time: _____
 Temp: _____ Cont. Rec _____ pH: _____
 Fedex UPS SWA Other _____
 Tracking # _____

- Insufficient packing material around container
- Insufficient packing material inside cooler
- Improper handling by carrier (FedEx / UPS / Courier)
- Sample was frozen

Comments: No analysis marked for sample 10; DU-4, DU-1.0, Purge water, Duplicate

Login Instructions:

TSR Initials: JFH

Client informed by call / email / fax / voice mail date: 11/25/13 time: 1010
Client contact: Trey Noland

Log all samples (both pages) for V8260, not V8260 BTEXMN.



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SITE	<u>Aladdin Cleaners - Montclair</u>	PROJECT #	<u>E1137127</u>
WELL ID	<u>MW-1</u>	DATE	<u>11/22/2013</u>
SAMPLE TYPE	<u>Water/Grab</u>	TIME	<u>0430</u>
SAMPLED BY	<u>Brian Brown</u>	WEATHER	<u>60s</u>

WELL DEVELOPMENT

DEPTH TO WATER (feet):	<u>9.04</u>	WELL DIAMETER (inches):	<u>2.00</u>
DEPTH OF WELL (feet):	<u>12.78</u>	ONE VOLUME (gal):	<u>0.6</u>
WATER COLUMN (feet):	<u>3.74</u>	THREE VOLUMES (gal):	<u>1.8</u>
		GALLONS PURGED:	<u>.75 (dry)</u>

WATER SAMPLE COLLECTION DATA

METHOD OF REMOVAL:	<u>dedicated bailer</u>	PURGE TIME:	<u>0735</u>
METHOD OF SAMPLING:	<u>dedicated bailer</u>	PUMP ON:	<u>NA</u>
TIME OF SAMPLING:	<u>0809</u>	PUMP OFF:	<u>NA</u>

FIELD ANALYSES

	Well Vol 1	Well Vol 2	Well Vol 3	Well Vol 4	Well Vol 5	Final
TEMPERATURE (F):	<u>73.04</u>	<u>--</u>	<u>--</u>	<u>--</u>	<u>--</u>	<u>73.04</u>
CONDUCTIVITY (µS/cm):	<u>565</u>	<u>--</u>	<u>--</u>	<u>--</u>	<u>--</u>	<u>565</u>
pH:	<u>6.32</u>	<u>--</u>	<u>--</u>	<u>--</u>	<u>--</u>	<u>6.32</u>
DISSOLVED OXYGEN (mg/L)	<u>1.99</u>	<u>--</u>	<u>--</u>	<u>--</u>	<u>--</u>	<u>1.99</u>
ORP (mv/Eh):	<u>51.9</u>	<u>--</u>	<u>--</u>	<u>--</u>	<u>--</u>	<u>51.9</u>

REASON FOR SAMPLING:	<u>Groundwater Monitoring Event</u>
OTHER (Specify):	<u></u>
METHOD OF SHIPMENT:	<u>Hand Courier</u>
PHYSICAL APPEARANCE:	<u></u>
TYPE OF ANALYSES:	<u>VOC 8260</u>
CONTAINER SIZE, TYPE & NO.:	<u>2 x 40-ml amber voa vials</u>
PRESERVATIVE:	<u>HCl; ice</u>

REMARKS

<u>NA - Not Applicable</u>
<u></u>
<u></u>
<u></u>



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SITE	<u>Aladdin Cleaners - Montclair</u>	PROJECT #.	<u>E1137127</u>
WELL ID	<u>MW-2</u>	DATE	<u>11/22/2013</u>
SAMPLE TYPE	<u>Water/Grab</u>	TIME	<u>0435</u>
SAMPLED BY	<u>Brian Brown</u>	WEATHER	<u>60s</u>

WELL DEVELOPMENT

DEPTH TO WATER (feet):	<u>8.87</u>	WELL DIAMETER (inches):	<u>2.00</u>
DEPTH OF WELL (feet):	<u>22.20</u>	ONE VOLUME (gal):	<u>2.2</u>
WATER COLUMN (feet):	<u>13.33</u>	THREE VOLUMES (gal):	<u>6.5</u>
		GALLONS PURGED:	<u>5.0 (dry)</u>

WATER SAMPLE COLLECTION DATA

METHOD OF REMOVAL:	<u>dedicated bailer</u>	PURGE TIME:	<u>0836</u>
METHOD OF SAMPLING:	<u>dedicated bailer</u>	PUMP ON:	<u>NA</u>
TIME OF SAMPLING:	<u>0854</u>	PUMP OFF:	<u>NA</u>

FIELD ANALYSES

	Well Vol 1	Well Vol 2	Well Vol 3	Well Vol 4	Well Vol 5	Final
TEMPERATURE (F):	--	72.6	--	--	--	72.6
CONDUCTIVITY (µS/cm):	--	603	--	--	--	603
pH:	--	6.28	--	--	--	6.28
DISSOLVED OXYGEN (mg/L)	--	2.85	--	--	--	2.85
ORP (mv/Eh):	--	54.3	--	--	--	54.3

REASON FOR SAMPLING:	<u>Groundwater Monitoring Event</u>
OTHER (Specify):	<u></u>
METHOD OF SHIPMENT:	<u>Hand Courier</u>
PHYSICAL APPEARANCE:	<u></u>
TYPE OF ANALYSES:	<u>VOC 8260</u>
CONTAINER SIZE, TYPE & NO.:	<u>2 x 40-ml amber voa vials</u>
PRESERVATIVE:	<u>HCl; ice</u>

REMARKS

<u>NA - Not Applicable</u>
<u></u>
<u></u>
<u></u>



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SITE	<u>Aladdin Cleaners - Montclair</u>	PROJECT #.	<u>E1137127</u>
WELL ID	<u>MW-3</u>	DATE	<u>11/22/2013</u>
SAMPLE TYPE	<u>Water/Grab</u>	TIME	<u>0415</u>
SAMPLED BY	<u>Brian Brown</u>	WEATHER	<u>60s</u>

WELL DEVELOPMENT

DEPTH TO WATER (feet):	<u>11.81</u>	WELL DIAMETER (inches):	<u>2.00</u>
DEPTH OF WELL (feet):	<u>20.71</u>	ONE VOLUME (gal):	<u>1.5</u>
WATER COLUMN (feet):	<u>8.9</u>	THREE VOLUMES (gal):	<u>4.4</u>
		GALLONS PURGED:	<u>2.5 (dry)</u>

WATER SAMPLE COLLECTION DATA

METHOD OF REMOVAL:	<u>dedicated bailer</u>	PURGE TIME:	<u>0524</u>
METHOD OF SAMPLING:	<u>dedicated bailer</u>	PUMP ON:	<u>NA</u>
TIME OF SAMPLING:	<u>0617</u>	PUMP OFF:	<u>NA</u>

FIELD ANALYSES

	Well Vol 1	Well Vol 2	Well Vol 3	Well Vol 4	Well Vol 5	Final
TEMPERATURE (F):	--	71.9	--	--	--	71.9
CONDUCTIVITY (µS/cm):	--	521	--	--	--	521
pH:	--	5.45	--	--	--	5.45
DISSOLVED OXYGEN (mg/L)	--	3.56	--	--	--	3.56
ORP (mv/Eh):	--	79.3	--	--	--	79.3

REASON FOR SAMPLING:	<u>Groundwater Monitoring Event</u>
OTHER (Specify):	<u></u>
METHOD OF SHIPMENT:	<u>Hand Courier</u>
PHYSICAL APPEARANCE:	<u></u>
TYPE OF ANALYSES:	<u>VOC 8260</u>
CONTAINER SIZE, TYPE & NO.:	<u>2 x 40-ml amber vov vials</u>
PRESERVATIVE:	<u>HCl; ice</u>

REMARKS

NA - Not Applicable



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SITE	<u>Aladdin Cleaners - Montclair</u>	PROJECT #	<u>E1137127</u>
WELL ID	<u>MW-4</u>	DATE	<u>11/22/2013</u>
SAMPLE TYPE	<u>Water/Grab</u>	TIME	<u>0423</u>
SAMPLED BY	<u>Brian Brown</u>	WEATHER	<u>60s</u>

WELL DEVELOPMENT

DEPTH TO WATER (feet):	<u>8.11</u>	WELL DIAMETER (inches):	<u>2.00</u>
DEPTH OF WELL (feet):	<u>11.08</u>	ONE VOLUME (gal):	<u>0.5</u>
WATER COLUMN (feet):	<u>2.97</u>	THREE VOLUMES (gal):	<u>1.5</u>
		GALLONS PURGED:	<u>0.5 (dry)</u>

WATER SAMPLE COLLECTION DATA

METHOD OF REMOVAL:	<u>dedicated bailer</u>	PURGE TIME:	<u>0536</u>
METHOD OF SAMPLING:	<u>dedicated bailer</u>	PUMP ON:	<u>NA</u>
TIME OF SAMPLING:	<u>0647</u>	PUMP OFF:	<u>NA</u>

FIELD ANALYSES

	Well Vol 1	Well Vol 2	Well Vol 3	Well Vol 4	Well Vol 5	Final
TEMPERATURE (F):	71.7	--	--	--	--	71.7
CONDUCTIVITY (µS/cm):	521	--	--	--	--	521
pH:	5.06	--	--	--	--	5.06
DISSOLVED OXYGEN (mg/L)	2.69	--	--	--	--	2.69
ORP (mv/Eh):	140.2	--	--	--	--	140.2

REASON FOR SAMPLING:	<u>Groundwater Monitoring Event</u>
OTHER (Specify):	<u></u>
METHOD OF SHIPMENT:	<u>Hand Courier</u>
PHYSICAL APPEARANCE:	<u></u>
TYPE OF ANALYSES:	<u>VOC 8260</u>
CONTAINER SIZE, TYPE & NO.:	<u>2 x 40-ml amber voa vials</u>
PRESERVATIVE:	<u>HCl; ice</u>

REMARKS

NA - Not Applicable



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SITE	<u>Aladdin Cleaners - Montclair</u>	PROJECT #.	<u>E1137127</u>
WELL ID	<u>MW-5</u>	DATE	<u>11/22/2013</u>
SAMPLE TYPE	<u>Water/Grab</u>	TIME	<u>0425</u>
SAMPLED BY	<u>Brian Brown</u>	WEATHER	<u>60s</u>

WELL DEVELOPMENT

DEPTH TO WATER (feet):	<u>6.34</u>	WELL DIAMETER (inches):	<u>2.00</u>
DEPTH OF WELL (feet):	<u>11.31</u>	ONE VOLUME (gal):	<u>0.8</u>
WATER COLUMN (feet):	<u>4.97</u>	THREE VOLUMES (gal):	<u>2.4</u>
		GALLONS PURGED:	<u>1.5 (dry)</u>

WATER SAMPLE COLLECTION DATA

METHOD OF REMOVAL:	<u>dedicated bailer</u>	PURGE TIME:	<u>0544</u>
METHOD OF SAMPLING:	<u>dedicated bailer</u>	PUMP ON:	<u>NA</u>
TIME OF SAMPLING:	<u>0658</u>	PUMP OFF:	<u>NA</u>

FIELD ANALYSES

	Well Vol 1	Well Vol 2	Well Vol 3	Well Vol 4	Well Vol 5	Final
TEMPERATURE (F):	--	66.8	--	--	--	66.8
CONDUCTIVITY (µS/cm):	--	471	--	--	--	471
pH:	--	5.95	--	--	--	6.0
DISSOLVED OXYGEN (mg/L)	--	3.90	--	--	--	3.90
ORP (mv/Eh):	--	64.5	--	--	--	64.5

REASON FOR SAMPLING:	<u>Groundwater Monitoring Event</u>
OTHER (Specify):	<u></u>
METHOD OF SHIPMENT:	<u>Hand Courier</u>
PHYSICAL APPEARANCE:	<u></u>
TYPE OF ANALYSES:	<u>VOC 8260</u>
CONTAINER SIZE, TYPE & NO.:	<u>2 x 40-ml amber vov vials</u>
PRESERVATIVE:	<u>HCl; ice</u>

REMARKS

NA - Not Applicable



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SITE	<u>Aladdin Cleaners - Montclair</u>	PROJECT #.	<u>E1137127</u>
WELL ID	<u>MW-6</u>	DATE	<u>11/22/2013</u>
SAMPLE TYPE	<u>Water/Grab</u>	TIME	<u>0428</u>
SAMPLED BY	<u>Brian Brown</u>	WEATHER	<u>60s</u>

WELL DEVELOPMENT

DEPTH TO WATER (feet):	<u>5.46</u>	WELL DIAMETER (inches):	<u>2.00</u>
DEPTH OF WELL (feet):	<u>10.35</u>	ONE VOLUME (gal):	<u>0.8</u>
WATER COLUMN (feet):	<u>4.89</u>	THREE VOLUMES (gal):	<u>2.4</u>
		GALLONS PURGED:	<u>1.5 (dry)</u>

WATER SAMPLE COLLECTION DATA

METHOD OF REMOVAL:	<u>dedicated bailer</u>	PURGE TIME:	<u>0553</u>
METHOD OF SAMPLING:	<u>dedicated bailer</u>	PUMP ON:	<u>NA</u>
TIME OF SAMPLING:	<u>0719</u>	PUMP OFF:	<u>NA</u>

FIELD ANALYSES

	Well Vol 1	Well Vol 2	Well Vol 3	Well Vol 4	Well Vol 5	Final
TEMPERATURE (F):	--	69.1	--	--	--	69.1
CONDUCTIVITY (µS/cm):	--	555	--	--	--	555
pH:	--	5.04	--	--	--	5.04
DISSOLVED OXYGEN (mg/L)	--	3.28	--	--	--	3.28
ORP (mv/Eh):	--	166.0	--	--	--	166.0

REASON FOR SAMPLING:	<u>Groundwater Monitoring Event</u>
OTHER (Specify):	<u></u>
METHOD OF SHIPMENT:	<u>Hand Courier</u>
PHYSICAL APPEARANCE:	<u></u>
TYPE OF ANALYSES:	<u>VOC 8260</u>
CONTAINER SIZE, TYPE & NO.:	<u>2 x 40-ml amber vov vials</u>
PRESERVATIVE:	<u>HCl; ice</u>

REMARKS

<u>NA - Not Applicable</u>
<u></u>
<u></u>
<u></u>



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SITE	<u>Aladdin Cleaners - Montclair</u>	PROJECT #.	<u>E1137127</u>
WELL ID	<u>MW-8</u>	DATE	<u>11/22/2013</u>
SAMPLE TYPE	<u>Water/Grab</u>	TIME	<u>0432</u>
SAMPLED BY	<u>Brian Brown</u>	WEATHER	<u>60s</u>

WELL DEVELOPMENT

DEPTH TO WATER (feet):	<u>9.91</u>	WELL DIAMETER (inches):	<u>2.00</u>
DEPTH OF WELL (feet):	<u>11.38</u>	ONE VOLUME (gal):	<u>0.2</u>
WATER COLUMN (feet):	<u>1.47</u>	THREE VOLUMES (gal):	<u>0.7</u>
		GALLONS PURGED:	<u>0.00</u>

WATER SAMPLE COLLECTION DATA

METHOD OF REMOVAL:	<u>dedicated bailer</u>	PURGE TIME:	<u>NA</u>
METHOD OF SAMPLING:	<u>dedicated bailer</u>	PUMP ON:	<u>NA</u>
TIME OF SAMPLING:	<u>0816</u>	PUMP OFF:	<u>NA</u>

FIELD ANALYSES

	Well Vol 1	Well Vol 2	Well Vol 3	Well Vol 4	Well Vol 5	Final
TEMPERATURE (F):	<u>NR</u>	<u>--</u>	<u>--</u>	<u>--</u>	<u>--</u>	<u>NR</u>
CONDUCTIVITY (µS/cm):	<u>NR</u>	<u>--</u>	<u>--</u>	<u>--</u>	<u>--</u>	<u>NR</u>
pH:	<u>NR</u>	<u>--</u>	<u>--</u>	<u>--</u>	<u>--</u>	<u>NR</u>
DISSOLVED OXYGEN (mg/L)	<u>NR</u>	<u>--</u>	<u>--</u>	<u>--</u>	<u>--</u>	<u>NR</u>
ORP (mv/Eh):	<u>NR</u>	<u>--</u>	<u>--</u>	<u>--</u>	<u>--</u>	<u>NR</u>

REASON FOR SAMPLING:	<u>Groundwater Monitoring Event</u>
OTHER (Specify):	<u></u>
METHOD OF SHIPMENT:	<u>Hand Courier</u>
PHYSICAL APPEARANCE:	<u></u>
TYPE OF ANALYSES:	<u>VOC 8260</u>
CONTAINER SIZE, TYPE & NO.:	<u>2 x 40-ml amber vov vials</u>
PRESERVATIVE:	<u>HCl; ice</u>

REMARKS

<u>NA - Not Applicable</u>
<u>NR - Not recorded due to insufficient water</u>
<u></u>
<u></u>



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SITE	<u>Aladdin Cleaners - Montclair</u>	PROJECT #.	<u>E1137127</u>
WELL ID	<u>DW-1</u>	DATE	<u>11/22/2013</u>
SAMPLE TYPE	<u>Water/Grab</u>	TIME	<u>0416</u>
SAMPLED BY	<u>Brian Brown</u>	WEATHER	<u>60s</u>

WELL DEVELOPMENT

DEPTH TO WATER (feet):	<u>8.14</u>	WELL DIAMETER (inches):	<u>2.00</u>
DEPTH OF WELL (feet):	<u>54.62</u>	ONE VOLUME (gal):	<u>7.6</u>
WATER COLUMN (feet):	<u>46.48</u>	THREE VOLUMES (gal):	<u>22.7</u>
		GALLONS PURGED:	<u>12.0 (dry)</u>

WATER SAMPLE COLLECTION DATA

METHOD OF REMOVAL:	<u>dedicated bailer</u>	PURGE TIME:	<u>0510</u>
METHOD OF SAMPLING:	<u>dedicated bailer</u>	PUMP ON:	<u>NA</u>
TIME OF SAMPLING:	<u>0626</u>	PUMP OFF:	<u>NA</u>

FIELD ANALYSES

	Well Vol 1	Well Vol 2	Well Vol 3	Well Vol 4	Well Vol 5	Final
TEMPERATURE (F):	<u>70.6</u>	<u>--</u>	<u>--</u>	<u>--</u>	<u>--</u>	<u>70.6</u>
CONDUCTIVITY (µS/cm):	<u>584</u>	<u>--</u>	<u>--</u>	<u>--</u>	<u>--</u>	<u>584</u>
pH:	<u>5.44</u>	<u>--</u>	<u>--</u>	<u>--</u>	<u>--</u>	<u>5.44</u>
DISSOLVED OXYGEN (mg/L)	<u>3.28</u>	<u>--</u>	<u>--</u>	<u>--</u>	<u>--</u>	<u>3.28</u>
ORP (mv/Eh):	<u>96.4</u>	<u>--</u>	<u>--</u>	<u>--</u>	<u>--</u>	<u>96.4</u>

REASON FOR SAMPLING:	<u>Groundwater Monitoring Event</u>
OTHER (Specify):	<u></u>
METHOD OF SHIPMENT:	<u>Hand Courier</u>
PHYSICAL APPEARANCE:	<u></u>
TYPE OF ANALYSES:	<u>VOC 8260</u>
CONTAINER SIZE, TYPE & NO.:	<u>2 x 40-ml amber voa vials</u>
PRESERVATIVE:	<u>HCl; ice</u>

REMARKS

<u>NA - Not Applicable</u>
<u></u>
<u></u>
<u></u>



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Office Location: Birmingham, AL.

SITE	<u>Aladdin Cleaners - Montclair</u>	PROJECT #.	<u>E1137127</u>
WELL ID	<u>DW-1-D</u>	DATE	<u>11/22/2013</u>
SAMPLE TYPE	<u>Water/Grab</u>	TIME	<u>0419</u>
SAMPLED BY	<u>Brian Brown</u>	WEATHER	<u>60s</u>

WELL DEVELOPMENT

DEPTH TO WATER (feet):	<u>8.27</u>	WELL DIAMETER (inches):	<u>2.00</u>
DEPTH OF WELL (feet):	<u>79.77</u>	ONE VOLUME (gal):	<u>11.7</u>
WATER COLUMN (feet):	<u>71.5</u>	THREE VOLUMES (gal):	<u>35.0</u>
		GALLONS PURGED:	<u>18.5 (dry)</u>

WATER SAMPLE COLLECTION DATA

METHOD OF REMOVAL:	<u>dedicated bailer</u>	PURGE TIME:	<u>0445</u>
METHOD OF SAMPLING:	<u>dedicated bailer</u>	PUMP ON:	<u>NA</u>
TIME OF SAMPLING:	<u>0634</u>	PUMP OFF:	<u>NA</u>

FIELD ANALYSES

TEMPERATURE (F):
 CONDUCTIVITY (µS/cm):
 pH:
 DISSOLVED OXYGEN (mg/L)
 ORP (mv/Eh):

Well Vol 1	Well Vol 2	Well Vol 3	Well Vol 4	Well Vol 5	Final
--	71.6	--	--	--	71.6
--	564	--	--	--	564
--	5.26	--	--	--	5.26
--	2.70	--	--	--	2.70
--	155.9	--	--	--	155.9

REASON FOR SAMPLING:	<u>Groundwater Monitoring Event</u>
OTHER (Specify):	<u></u>
METHOD OF SHIPMENT:	<u>Hand Courier</u>
PHYSICAL APPEARANCE:	<u></u>
TYPE OF ANALYSES:	<u>VOC 8260</u>
CONTAINER SIZE, TYPE & NO.:	<u>2 x 40-ml amber voa vials</u>
PRESERVATIVE:	<u>HCl; ice</u>

REMARKS

NA - Not Applicable



Office Location: Birmingham, AL.

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SITE	<u>Aladdin Cleaners - Montclair</u>	PROJECT #.	<u>E1137127</u>
WELL ID	<u>DW-2</u>	DATE	<u>11/22/2013</u>
SAMPLE TYPE	<u>Water/Grab</u>	TIME	<u>0427</u>
SAMPLED BY	<u>Brian Brown</u>	WEATHER	<u>60s</u>

WELL DEVELOPMENT

DEPTH TO WATER (feet):	<u>54.71</u>	WELL DIAMETER (inches):	<u>2.00</u>
DEPTH OF WELL (feet):	<u>55.08</u>	ONE VOLUME (gal):	<u>0.06</u>
WATER COLUMN (feet):	<u>0.37</u>	THREE VOLUMES (gal):	<u>0.18</u>
		GALLONS PURGED:	<u>0 (dry)</u>

WATER SAMPLE COLLECTION DATA

METHOD OF REMOVAL:	<u>dedicated bailer</u>	PURGE TIME:	<u>NA</u>
METHOD OF SAMPLING:	<u>dedicated bailer</u>	PUMP ON:	<u>NA</u>
TIME OF SAMPLING:	<u>0711</u>	PUMP OFF:	<u>NA</u>

FIELD ANALYSES

TEMPERATURE (F):
 CONDUCTIVITY (µS/cm):
 pH:
 DISSOLVED OXYGEN (mg/L)
 ORP (mv/Eh):

Well Vol 1	Well Vol 2	Well Vol 3	Well Vol 4	Well Vol 5	Final
NR	--	--	--	--	NR
NR	--	--	--	--	NR
NR	--	--	--	--	NR
NR	--	--	--	--	NR
NR	--	--	--	--	NR

REASON FOR SAMPLING:	<u>Groundwater Monitoring Event</u>
OTHER (Specify):	<u></u>
METHOD OF SHIPMENT:	<u>Hand Courier</u>
PHYSICAL APPEARANCE:	<u></u>
TYPE OF ANALYSES:	<u>VOC 8260</u>
CONTAINER SIZE, TYPE & NO.:	<u>2 x 40-ml amber vov vials</u>
PRESERVATIVE:	<u>HCl; ice</u>

REMARKS

NA - Not Applicable
NR - Not recorded due to insufficient water



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Office Location: Birmingham, AL.

SITE	<u>Aladdin Cleaners - Montclair</u>	PROJECT #.	<u>E1137127</u>
WELL ID	<u>DW-4</u>	DATE	<u>11/22/2013</u>
SAMPLE TYPE	<u>Water/Grab</u>	TIME	<u>0437</u>
SAMPLED BY	<u>Brian Brown</u>	WEATHER	<u>60s</u>

WELL DEVELOPMENT

DEPTH TO WATER (feet):	<u>46.24</u>	WELL DIAMETER (inches):	<u>2.00</u>
DEPTH OF WELL (feet):	<u>54.85</u>	ONE VOLUME (gal):	<u>1.4</u>
WATER COLUMN (feet):	<u>8.61</u>	THREE VOLUMES (gal):	<u>4.2</u>
		GALLONS PURGED:	<u>4.5</u>

WATER SAMPLE COLLECTION DATA

METHOD OF REMOVAL:	<u>dedicated bailer</u>	PURGE TIME:	<u>0913</u>
METHOD OF SAMPLING:	<u>dedicated bailer</u>	PUMP ON:	<u>NA</u>
TIME OF SAMPLING:	<u>0930</u>	PUMP OFF:	<u>NA</u>

FIELD ANALYSES

	Well Vol 1	Well Vol 2	Well Vol 3	Well Vol 4	Well Vol 5	Final
TEMPERATURE (F):	--	--	72.4	--	--	72.4
CONDUCTIVITY (µS/cm):	--	--	613	--	--	613
pH:	--	--	5.41	--	--	5.41
DISSOLVED OXYGEN (mg/L)	--	--	3.03	--	--	3.03
ORP (mv/Eh):	--	--	92.1	--	--	92.1

REASON FOR SAMPLING:	<u>Groundwater Monitoring Event</u>
OTHER (Specify):	<u></u>
METHOD OF SHIPMENT:	<u>Hand Courier</u>
PHYSICAL APPEARANCE:	<u></u>
TYPE OF ANALYSES:	<u>VOC 8260</u>
CONTAINER SIZE, TYPE & NO.:	<u>2 x 40-ml amber vov vials</u>
PRESERVATIVE:	<u>HCl; ice</u>

REMARKS

<u>NA - Not Applicable</u>
<u></u>
<u></u>
<u></u>

June 2021 Groundwater Monitoring Report (CP11)

**ALADDIN CLEANERS AND LAUNDRY, INC.
1668 MONTCLAIR ROAD
BIRMINGHAM, JEFFERSON COUNTY, ALABAMA
DERTF NO.: 462-9350**

October 22, 2021
Terracon Project No. E1217009



Prepared for:

Aladdin Cleaners and Laundry, Inc.
Birmingham, Alabama

Prepared by:

Terracon Consultants, Inc.
Birmingham, Alabama

terracon.com

Terracon

Environmental



Facilities



Geotechnical



Materials



October 22, 2021

Alabama Department of Environmental Management
Environmental Services Branch
Assessment Section
1400 Coliseum Blvd
Montgomery, AL 36110-2059

Attention: Ms. Ashley Powell

RE: June 2021 Groundwater Monitoring Report CP#11
Aladdin Cleaners & Laundry, Inc.
1668 Montclair Road
Birmingham, Jefferson County, Alabama
DERTF#462-9350
Terracon Project No.: E1217009

Dear Ms. Powell:

Terracon Consultants, Inc. (Terracon) has completed the June 2021 groundwater monitoring activities at the above-referenced site. This work was performed under the Drycleaning Environmental Response Trust Fund (DERTF) approved Cost Proposal #11. The enclosed report describes our study and presents our findings.

Terracon appreciates the opportunity to provide this report. If you have any questions concerning this project, please contact us at (205) 942-1289.

Sincerely,
Terracon Consultants, Inc.

Jessica M. Gentrup
Environmental Engineer Intern

Frank M. Nowicki
Senior Project Professional

Meghan A. DiGiorgio
Senior Staff Geologist



Terracon Consultants Inc. 2147 Riverchase Office Road Birmingham, Alabama 35244
P [205] 942 1289 F [205] 443 5302 terracon.com

Environmental

Facilities

Geotechnical

Materials



October 22, 2021

Mr. Timothy Barr
Aladdin Cleaners & Laundry, Inc.
1632 Montclair Road, Ste 1200
Birmingham, Alabama 35210

RE: June 2021 Groundwater Monitoring Report CP#11
Aladdin Cleaners & Laundry, Inc.
1668 Montclair Road
Birmingham, Jefferson County, Alabama
DERTF#462-9350
Terracon Project No.: E1217009

Dear Mr. Barr:

Terracon Consultants, Inc. (Terracon) has completed the June 2021 groundwater sampling activities at the above-referenced site. The enclosed report describes our study and presents our findings. I have enclosed one bound report for your files. Two copies of this report have been forwarded to the Alabama Department of Environmental Management.

Terracon appreciates the opportunity to provide this report. If you have any questions regarding this report or if we may be of further service to you, please contact us at (205) 942-1289.

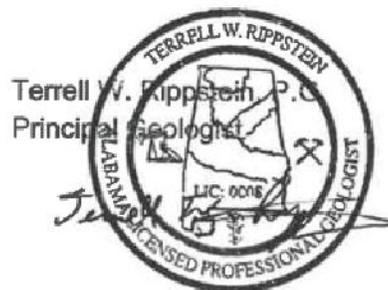
Sincerely,
Terracon Consultants, Inc.

Jessica M. Gentrup
Environmental Engineer Intern

Frank M. Nowicki
Senior Project Professional

Meghan A. DiGiorgio
Senior Staff Geologist

cc: Ms. Ashley Powell – ADEM



Terracon Consultants Inc. 2147 Riverchase Office Road Birmingham, Alabama 35244
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CERTIFICATION PAGE

I certify under penalty of law that I am a geologist or registered professional engineer experienced in hydrogeologic investigations. The investigation described in this report was performed by a geologist(s) or registered engineer(s) experienced in hydrogeologic investigations. The information submitted herein, to the best of my knowledge and belief, is true, accurate, and complete. I am aware that there are significant penalties for submitting false information.



Terrell W. Rippstein
Terrell W. Rippstein, P.G.
Principal Geologist



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APPENDICES

Appendix A	Monitoring Well Sampling Records
Appendix B	COC Trend Graphs
Appendix C	Laboratory Analytical Report
Appendix D	Purge Water Disposal Documents

**June 2021 GROUNDWATER MONITORING REPORT (CP #11)
ALADDIN CLEANERS AND LAUNDRY, INC.
1668 MONTCLAIR ROAD
BIRMINGHAM, JEFFERSON COUNTY, ALABAMA
DERFT#462-9350**

Project Number: E1217009
October 22, 2021

1.0 SITE DESCRIPTION AND LOCATION

The Aladdin Cleaners and Laundry, Inc. (Aladdin Cleaners) site is located at 1668 Montclair Road in Birmingham, Jefferson County, Alabama. The site is identified on the United States Geological Survey (USGS) 7.5-minute Topographic Quadrangle "Irondale, Alabama" dated 1959, revised/inspected 1978, (included as Figure 1) and is located in the southwest ¼ of the northeast ¼ of Section 26, Township 17 South, Range 2 West in Birmingham, Jefferson County, Alabama.

The site currently consists of a BBVA Compass Bank and associated parking and landscaped areas. The site is surrounded by commercial properties including a gasoline service station located to the south/southeast across Montclair Road.

2.0 SUMMARY OF SITE HISTORY AND PREVIOUS INVESTIGATIONS

The following is a summary of the chronology of events based on the current available information.

- September 2001 – Phase II ESA conducted by EMG indicated the presence of constituents of concern (COCs) related to drycleaning solvents in collected soil and groundwater samples.
- July 2003 – Initial Investigation conducted by PPM Consultants, Inc. (PPM) which included the installation of two shallow monitoring wells. The Initial Investigation Report was submitted to ADEM in January 2004.
- May 2004 – ADEM requested an Additional Assessment. Additional Assessment conducted by PPM which included the installation of one additional shallow monitoring well and one deep Type III well.
- October 2004 – The Revised Initial Investigation Report was submitted to ADEM. Based on the results of the Revised Initial Investigation, ADEM requested an Additional Assessment.
- March 2005 – Additional Assessment Plan submitted.
- April 2005 – ADEM approved the Additional Assessment Plan.

Groundwater Monitoring Report (CP #11)

Aladdin Cleaners and Laundry, Inc- Montclair ■ Birmingham, Alabama

October 22, 2021 ■ Project No. E1217009



- June 2006 – ADEM issued a letter stating that the site would be addressed under the Drycleaning Environmental Response Trust Fund (DERTF) rather than the Voluntary Cleanup Program (VCP).
- March 2008 – ADEM issued a letter to PPM requesting groundwater sampling prior to implementing the Property Assessment Workplan.
- May 2008 – Gallet became the DERTF contractor for the site. A site visit by Gallet indicated that two monitoring wells had been destroyed, and the drycleaning facility had been razed.
- July 2008 – Gallet submitted a letter to ADEM requesting approval for implementation of the April 2005 Additional Assessment Plan.
- September 2008 – ADEM approved Gallet’s July 2008 request. Construction of Compass Bank initiated around this time.
- November 2008 – Gallet submitted Cost Proposal (CP)#2 to the DERTF for the Additional Assessment activities. Subsequently, two additional monitoring wells were damaged or destroyed during construction activities. As of December 2009, CP#2 had not been approved by the DERTF.
- January 2009 – The Type III monitoring well was abandoned.
- April 2010 – At the request of ADEM and the DERTF, a Revised Property Assessment Scope of Work and revised CP#2 were submitted to ADEM and the DERTF.
- April 30, 2010 – ADEM approved the Revised Property Assessment Scope of Work.
- May 17, 2010 – Revised CP#2 was approved by the DERTF.
- August – September 2010 – Preliminary Assessment performed at the site including soil borings and the installation and sampling of groundwater monitoring wells.
- January 20, 2011 – Terracon submitted the Preliminary Assessment report to ADEM for approval.
- April 18, 2011 – Terracon submitted CP #3 to the DERTF for the Additional Assessment activities.
- April 2013 – Terracon performed a Supplemental Environmental Assessment for the site which included the installation of three Type II monitoring wells and four Type III monitoring wells. Soil and groundwater samples were collected and analyzed at each monitoring well location. Groundwater samples collected from three wells (MW-1, MW-3, and DW-1) contained COCs in groundwater associated with dry-cleaning operations at concentrations exceeding the ADEM PSVs.
- June 2013 – Terracon submitted CP#4 and CP#5 to the DERTF for groundwater monitoring activities and to conduct an ARBCA Evaluation for the facility.
- August 2013 – CP#4 and CP#5 were approved by the DERTF. Terracon conducted a site-wide groundwater monitoring event under CP#4. COCs in groundwater associated with drycleaning solvents were present in groundwater at concentrations above the EPA Maximum Contaminant Level (MCL) or Regional Screening Level (RSL) in four monitoring wells (MW-1, MW-3, DW-1, and DW-1-D).

Groundwater Monitoring Report (CP #11)

Aladdin Cleaners and Laundry, Inc- Montclair ■ Birmingham, Alabama

October 22, 2021 ■ Project No. E1217009



- November 2013 – Terracon conducted a site-wide groundwater monitoring event under approved CP#5. COCs in groundwater associated with drycleaning solvents were present in groundwater at concentrations above the EPA MCL/RSL in five monitoring wells (MW-1, MW-3, DW-1, DW-3, and DW-1-D). The results from the groundwater event and an Alabama Risk-Based Corrective Action (ARBCA) Evaluation were submitted to ADEM on January 15, 2014.
- In correspondence dated February 11, 2014 ADEM stated that even though cumulative risks calculated in the ARBCA were below allowable levels, the concentrations of some chemicals of concern (COCs) remained elevated above Preliminary Screening Values (PSVs) established by ADEM; therefore, an Environmental Covenant was required for site closure.
- Terracon submitted a workplan for Environmental Covenant preparation to ADEM on July 8, 2014. ADEM approved the workplan in correspondence dated August 5, 2014.
- On April 21, 2016, Aladdin Cleaners and Laundry, Inc. submitted a letter to ADEM requesting additional time to pursue an Environmental Covenant for the site with the current site property owner.
- ADEM requested a workplan for a groundwater monitoring event and updated ARBCA evaluation in correspondence dated February 16, 2018. Terracon submitted the workplan to ADEM and Cost Proposal #7 to the DERTF on April 26, 2018. ADEM approved the workplan in correspondence dated May 30, 2018. Cost Proposal #7 was approved by the DERTF in correspondence dated June 14, 2018.
- On August 8, 2018, ADEM requested to postpone the ARBCA update until one additional groundwater event could be conducted at the site. Results from the July 20, 2018 groundwater monitoring event, conducted under approved Cost Proposal #7, are described in the following sections.
- On October 30, 2018, Terracon submitted to ADEM *Workplan for Groundwater Monitoring Event and ARBCA Update* in response to the August 8, 2018 ADEM letter postponing the ARBCA update.
- On November 19, 2018, ADEM correspondence titled *Groundwater Monitoring Workplan and ARBCA Update CP-8* stated that the groundwater monitoring workplan was approved, but the plan to update the ARBCA was not approved at the time due to increasing concentration of chemicals of concern indicated in the October 23, 2018 Groundwater Monitoring Report. In addition, ADEM correspondence titled *Groundwater Monitoring Report CP-7*, dated November 19, 2018, approved the groundwater monitoring activities summarized in the October 23, 2018 Groundwater Monitoring Report.
- Terracon submitted *December 2018 Groundwater Monitoring Report CP-8* on March 6, 2019, documenting the results of the groundwater monitoring activities conducted in December 2018.
- On April 1, 2019, ADEM issued correspondence titled *Groundwater Monitoring Report CP-8* stating a review of the *December 2018 Groundwater Monitoring Report* and

requesting a continuation of groundwater monitoring activities at the site and the authorization of a workplan to conduct future work at the site.

- On April 26, 2019, Terracon submitted *Groundwater Monitoring Workplan CP-9* to ADEM for groundwater monitoring activities to be conducted at the site.
- On May 17, 2019, ADEM issued correspondence *Groundwater Monitoring Workplan CP-9* approving the Terracon submitted workplan.
- November 29, 2019, Terracon submitted *Groundwater Monitoring Report CP-9* to ADEM documenting the results of the groundwater monitoring activities conducted in June 2019.
- January 28, 2020, ADEM issued correspondence titled *Groundwater Monitoring Report CP-9* stating a review of the *December 2019 Groundwater Monitoring Report*, requesting a continuation of groundwater monitoring activities at the site, and the authorization of a workplan to conduct future work at the site.
- April 29, 2020, Terracon submitted *Groundwater Monitoring Workplan CP-10* to ADEM for groundwater monitoring activities to be conducted at the site.
- May 18, 2020, ADEM issued correspondence *Groundwater Monitoring Report CP-10* approving the Terracon submitted workplan.
- January 14, 2021, Terracon submitted *Groundwater Monitoring Workplan CP-11* to ADEM for groundwater monitoring activities to be conducted at the site.
- February 18, 2021, ADEM issued correspondence *Groundwater Monitoring Report CP-11* approving the Terracon submitted workplan.

3.0 GROUNDWATER MONITORING

3.1 Groundwater Flow

Depths to groundwater were measured for monitoring wells MW-1 through MW-6, MW-8, DW-1 through DW-4, and DW-1-D on June 25, 2021 using an electronic water level indicator capable of measuring water depth to an accuracy of 0.01 feet. The water level indicator and measuring tape were decontaminated between wells. Depth to water in the shallow wells ranged from 4.88 feet below top of casing (ft-btoc, MW-6) to 14.72 ft-btoc (MW-3). The depth to water in the intermediate wells (DW-1 through DW-4) ranged from 0.52 ft-btoc (DW-4) to 53.80 ft-btoc (DW-2). The groundwater elevation observed in DW-4 was consistent with the previous four groundwater monitoring events; however, it is not consistent with prior historical groundwater elevation data for that well. Depth to water in the deep well (DW-1-D) was 6.35 ft-btoc. Groundwater elevation data are included in Table 1. Figure 2 is a potentiometric surface map for June 25, 2021, which indicates shallow groundwater flows generally towards the southwest and is consistent with previous monitoring. Figure 3 and Figure 4 are potentiometric surface maps for the two previous gauging events (June 2020 and June 2019).

3.2 Groundwater Sampling Procedures

On June 25, 2021, the shallow monitoring wells were purged using dedicated disposable bailers. The wells were purged of at least three well volumes or until dry. For the intermediate wells and the deep well, a submersible pump was utilized to purge and sample the wells. For the shallow wells, groundwater samples were collected using dedicated, disposable bailers and dispensed into the appropriate laboratory-prepared sample containers. Each sample container was labeled, wrapped in bubble pack, and placed immediately in a cooler containing ice. The groundwater samples were shipped under chain-of-custody to Pace Analytical National (Pace) in Mt. Juliet, Tennessee, for analysis of volatile organic compounds (VOCs) by EPA Method 8260. Monitoring well details, purge volumes, and field parameter readings including pH, oxidation/reduction potential (ORP), dissolved oxygen (DO), and conductivity are presented in the attached Monitoring Well Sampling Records (Appendix A).

3.3 Groundwater Sampling Analytical Results

Laboratory analytical results for the groundwater samples collected during this sampling event are summarized in Table 2. Analytical results for detected constituents were compared to the United States Environmental Protection Agency (USEPA) Maximum Contaminant Level (MCL) and USEPA Regional Screening Level (RSL). The concentrations of COCs detected in groundwater samples collected on June 25, 2021 are illustrated on Figure 5. Figure 6 and Figure 7 illustrate the detected COCs in groundwater for the two previous sampling events (June 2020 and June 2019). A summary of historical groundwater analytical results is included on Table 2. COC trend graphs are presented in Appendix B. The laboratory analytical report for the groundwater samples is included in Appendix C. Analytical detections for the June 25, 2021 sampling event are displayed on Table 3.3 below.

Table 3.3 Detections in Groundwater

Analyte	Tetrachloroethene (PCE)	Trichloroethene (TCE)	Cis-1,2-Dichloroethene	Trans-1,2-Dichloroethene	1,1,1 Trichloroethane (1,1,1 TCA)	1,1 Dichloroethane (1,1-DCA)	1,1 Dichloroethene (1,1-DCE)	Vinyl Chloride
Well ID								
MW-1	0.0282	0.00458	0.00618	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
MW-2	0.00284	0.00150	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
MW-3	0.0157	0.00282	0.00238	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
MW-4	<0.0010	<0.0010	0.0702	<0.0010	<0.0010	<0.0010	<0.0010	0.00306
MW-5	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
MW-6	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
MW-8	0.00300	0.00200	0.00309	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
DW-1	0.0515	0.00918	0.00686	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
DW-2	0.00828	0.00914	0.00335	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
DW-3	0.0331	0.00463	0.00260	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
DW-4	0.00142	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
DW-1D	0.0909	0.0265	0.00147	0.00129	<0.0010	<0.0010	<0.0010	<0.0010
EPA RSL	0.0041	0.00028	0.0036	0.0068	0.2	NL	0.007	0.000019
EPA MCL	0.005	0.005	0.07	0.1	0.8	0.0028	0.028	0.002

Results presented in milligrams per Liter (mg/L)

Bold values indicate laboratory detection

Highlighted values exceed screening level

USEPA RSL/ USEPA MCL- EPA Regional Screening Level for tapwater / EPA Maximum Contaminant Level for drinking water (THQ 0.1, May 2021)

NL – None Listed

Tetrachloroethene (PCE) was detected at concentrations above its USEPA MCL and USEPA RSL in the groundwater samples collected from monitoring wells MW-1, MW-3, DW-1, DW-2, DW-3, and DW-1D. PCE was detected at concentrations above laboratory reporting limits but below screening levels in the sample collected from monitoring wells MW-2, MW-8, and DW-4.

Trichloroethene (TCE) was detected at concentrations above its USEPA MCL in the groundwater samples collected from monitoring wells DW-1, DW-2, and DW-1D. TCE was detected at concentrations above its USEPA RSL but below the USEPA MCL in the samples collected from monitoring wells MW-1, MW-2, MW-3, MW-8, and DW-3.

Cis-1,2-Dichloroethene (Cis-1,2-DCE) was detected at a concentration above its USEPA MCL and USEPA RSL in the groundwater sample collected from monitoring well MW-4. Cis-1,2-DCE was detected at concentrations above its USEPA RSL but below its USEPA MCL in the groundwater samples collected from monitoring wells MW-1 and DW-1. Cis-1,2-DCE was detected at concentrations above laboratory reporting limits but below the USEPA RSL and MCL

in the groundwater samples collected from monitoring wells MW-3, MW-8, DW-2, DW-3, and DW-1D.

Trans-1,2-Dichloroethene (Trans-1,2-DCE) was detected at a concentration above the laboratory reporting limit but below its USEPA RSL and MCL in the groundwater sample collected from monitoring well DW-1D.

Vinyl chloride was detected at a concentration above its USEPA MCL and USEPA RSL in the groundwater sample collected from monitoring well MW-4.

1,1,1-Trichloroethane (1,1,1 TCA), 1,1-Dichloroethane (1,1-DCA) and 1,1-Dichloroethene (1,1-DCE) were not detected at a concentration above the laboratory reporting limit in the groundwater samples collected from the monitoring wells.

3.4 Natural Attenuation Parameters

Field measurements for dissolved oxygen (DO), temperature, specific conductance, pH, and oxidation/reduction potential (ORP) were obtained during groundwater sampling. The field parameter data are used to determine whether the geochemical and biological conditions present in the groundwater are conducive for the natural attenuation of VOCs. Natural attenuation parameter data are presented on the monitoring well sampling records (Appendix A).

The DO readings during this sampling event ranged from 1.48 milligrams per liter (mg/L, MW-6) to 5.62 mg/L (MW-2).

The specific conductance, which generally indicates the relative concentration of dissolved solids, ranged from 278 micro-Siemens per centimeter ($\mu\text{S}/\text{cm}$, DW-4) to 3,936 $\mu\text{S}/\text{cm}$ (DW-2). As a general reference, the specific conductance of freshwater ranges from 0 to 1,300 $\mu\text{S}/\text{cm}$, the specific conductance of brackish water ranges from 1,301 to 28,800 $\mu\text{S}/\text{cm}$, and the specific conductance of salty water is greater than 28,800 $\mu\text{S}/\text{cm}$.

The monitoring of pH of the groundwater can be used to determine if conditions are suitable for biodegradation. Biodegradation may be inhibited if the pH falls outside a specific range (generally 5 to 9 standard units; su). The pH levels during this monitoring event ranged from 6.85 su in MW-8 to 7.66 su in DW-2.

ORP in groundwater can be monitored and used as a qualitative indicator of environmental conditions within and outside the delineated area of impacted groundwater. In general, a low ORP (<50 millivolts, MV) would be a positive indicator that anaerobic degradation is occurring. The ORP measured in the wells during this reporting period ranged from -99.2 in DW-4 to 96.3 mV in DW-1D.

4.0 INVESTIGATIVE DERIVED WASTE ANALYSIS AND DISPOSAL

A water sample was collected from the 55-gallon drum of purge water generated from the June 25, 2021 groundwater sampling event. Analytical results indicated that the PCE concentrations in the samples were above the EPA Maximum Contaminant Level (MCL). In accordance with a memo titled “Alabama Drycleaning Environmental Trust Fund Policies and Procedures related to Cost Proposals and Payment Requests” dated February 2018, any detection of tetrachloroethene (PCE) in any sample collected from a drycleaner facility will render the waste “listed” and the waste will need to undergo a Contained In/Out Determination prior to disposal. Terracon requested a Contained In/Out Determination from ADEM on July 8, 2021. The waste was determined to contain in for the F002 listing and would require disposal as hazardous waste. Heritage - Crystal Clean picked up, transported, and disposed of the purge water on August 5, 2021. The purge water was transported for disposal via incineration. The disposal documentation is included as Appendix D.

5.0 CONCLUSIONS

The data collected during the June 2021 groundwater sampling event indicates the following:

- Groundwater flow is generally to the southwest;
- PCE was detected at concentrations above its USEPA MCL in the groundwater samples collected from MW-1, MW-3, DW-1, DW-2, DW-3, and DW-1D;
- TCE was detected at concentrations above its USEPA MCL in the groundwater samples collected from DW-1, DW-2, and DW-1D;
- TCE was detected at concentrations above its USEPA RSL, but below the USEPA MCL in the groundwater samples collected from MW-1, MW-2, MW-3, MW-8, and DW-3;
- Cis-1,2-DCE was detected at concentrations above its USEPA MCL in the groundwater samples collected from MW-4;
- Cis-1,2-DCE was detected at concentrations above its USEPA RSL but below the USEPA MCL in groundwater samples collected from MW-1 and DW-1;
- Vinyl chloride was detected at a concentration above its USEPA MCL in groundwater sample collected from MW-4;
- No other constituents were detected at concentrations above their respective USEPA RSLs or USEPA MCLs in groundwater at the site.

Based on the conclusions listed above, Terracon recommends continued groundwater monitoring of COCs in groundwater at the site.

TABLES

Table 1 Groundwater Elevation Data
Aladdin Cleaners and Laundry, Inc. - Montclair
Birmingham, Jefferson County, Alabama
Terracon Project No.: E1217009



Monitoring Well	Date Measured	Top of Casing Elevation (ft amsl)	Measured Depth to Water (ft btoc)	Groundwater Elevation (ft amsl)
MW-1	9/3/2010	720.38	8.14	712.24
	4/9/2013		7.58	712.80
	4/25/2013		7.64	712.74
	8/22/2013		7.79	712.59
	11/22/2013		9.04	711.34
	7/20/2018		7.64	712.74
	12/12/2018		7.20	713.18
	6/28/2019		8.11	712.27
	6/26/2020		7.31	713.07
	6/25/2021		7.54	712.84
MW-2	9/3/2010	718.74	19.46	699.28
	4/9/2013		7.42	711.32
	4/25/2013		8.50	710.24
	8/22/2013		8.35	710.39
	11/22/2013		8.87	709.87
	7/20/2018		7.68	711.06
	12/12/2018		7.81	710.93
	6/28/2019		8.37	710.37
	6/26/2020		7.53	711.21
	6/25/2021		7.31	711.43
MW-3	9/3/2010	719.37	17.0	702.37
	4/9/2013		10.57	708.80
	4/25/2013		10.87	708.50
	8/22/2013		9.51	709.86
	11/22/2013		11.81	707.56
	7/20/2018		12.04	707.33
	12/12/2018		11.50	707.87
	6/28/2019		13.79	705.58
	6/26/2020		11.99	707.38
	6/25/2021		14.72	704.65
MW-4	9/3/2010	720.61	8.41	712.20
	4/9/2013		7.43	713.18
	4/25/2013		7.45	713.16
	8/22/2013		7.31	713.30
	11/22/2013		8.11	712.50
	7/20/2018		6.60	714.01
	12/12/2018		5.99	714.62
	6/28/2019		6.39	714.22
	6/26/2020		6.08	714.53
	6/25/2021		6.09	714.52
MW-5	4/8/2013	719.06	9.01	710.05
	4/25/2013		6.4	712.66
	8/22/2013		6.37	712.69
	11/22/2013		6.34	712.72
	7/20/2018		6.35	712.71
	12/12/2018		6.31	712.75
	6/28/2019		6.41	712.65
	6/26/2020		6.29	712.77
	6/25/2021		6.38	712.68

Table 1 Groundwater Elevation Data
Aladdin Cleaners and Laundry, Inc. - Montclair
Birmingham, Jefferson County, Alabama
Terracon Project No.: E1217009



Monitoring Well	Date Measured	Top of Casing Elevation (ft amsl)	Measured Depth to Water (ft btoc)	Groundwater Elevation (ft amsl)
MW-6	4/9/2013	720.38	10.25	710.13
	4/25/2013		5.31	715.07
	8/22/2013		5.27	715.11
	11/22/2013		5.46	714.92
	7/20/2018		5.46	714.92
	12/12/2018		5.09	715.29
	6/28/2019		5.28	715.10
	6/26/2020		5.18	715.20
	6/25/2021		4.88	715.50
MW-8	4/10/2013	720.88	9.31	711.57
	4/25/2013		8.49	712.39
	8/22/2013		8.57	712.31
	11/22/2013		9.91	710.97
	7/20/2018		8.37	712.51
	12/12/2018		7.82	713.06
	6/28/2019		8.83	712.05
	6/26/2020		7.94	712.94
	6/25/2021		8.11	712.77
DW-1	9/3/2010	719.38	7.06	712.32
	4/9/2013		6.59	712.79
	4/25/2013		6.58	712.80
	8/22/2013		6.79	712.59
	11/22/2013		8.14	711.24
	7/20/2018		6.59	712.79
	12/12/2018		6.86	712.52
	6/28/2019		6.95	712.43
	6/26/2020		6.46	712.92
	6/25/2021		6.23	713.15
DW-2	4/10/2013	720.40	54.78	665.62
	4/25/2013		55.02	665.38
	8/22/2013		54.69	665.71
	11/22/2013		54.71	665.69
	7/20/2018		45.50	674.90
	12/12/2018		51.96	668.44
	6/28/2019		52.97	667.43
	6/26/2020		53.15	667.25
	6/25/2021		53.80	666.60
DW-3	4/10/2013	720.47	51.06	669.41
	4/25/2013		8.42	712.05
	11/22/2013		9.73	710.74
	7/20/2018		8.78	711.69
	12/12/2018		6.93	713.54
	6/28/2019		7.31	713.16
	6/26/2020		6.78	713.69
	6/25/2021		6.51	713.96

Table 1 Groundwater Elevation Data
Aladdin Cleaners and Laundry, Inc. - Montclair
Birmingham, Jefferson County, Alabama
Terracon Project No.: E1217009



Monitoring Well	Date Measured	Top of Casing Elevation (ft amsl)	Measured Depth to Water (ft btoc)	Groundwater Elevation (ft amsl)
DW-4	4/10/2013	718.45	54.83	663.62
	4/25/2013		>55	<663.45
	8/22/2013		44.33	674.12
	11/22/2013		46.24	672.21
	7/20/2018		0.00	718.45
	12/12/2018		0.00	718.45
	6/28/2019		0.20	718.25
	6/26/2020		0.10	718.35
	6/25/2021		0.52	717.93
DW-1-D	4/10/2013	719.38	77.24	642.14
	4/25/2013		44.43	674.95
	8/22/2013		7.08	712.30
	11/22/2013		8.27	711.11
	7/20/2018		6.60	712.78
	12/12/2018		5.98	713.40
	6/28/2019		6.91	712.47
	6/26/2020		6.56	712.82
	6/25/2021		6.35	713.03

ft amsl = feet above mean sea level
ft btoc = feet below top of casing

Table 2 Historical Groundwater Detections
 Aladdin Cleaners and Laundry, Inc. - Montclair
 Birmingham, Jefferson County, Alabama
 Terracon Project No.: E1217009



Sample ID	Collection Date	Chlorinated COCs								Petroleum COCs						Other	
		cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene (PCE)	Trichloroethene (TCE)	1,1,1-Trichloroethane	1,1-Dichloroethane (1,1DCA)	1,1-Dichloroethene (1,1DCE)	Vinyl chloride	Benzene	Ethylbenzene	Methyl tert-butyl ether (MTBE)	Toluene	Total Xylenes	1,2,3-Trimethylbenzene	1,2,4-Trimethylbenzene	Acetone
EPA MCL		0.07	0.1	0.005	0.005	0.2	NL	0.007	0.002	0.005	0.7	NL	1.0	10	NL	NL	NL
EPA RSL		0.0036	0.0068	0.0041	0.00028	0.8	0.0028	0.028	0.000019	0.00046	0.0015	0.014	0.11	0.019	0.0055	0.0056	1.4
MW-1	9/3/2010	0.0099	--	0.013	0.0036	--	--	--	--	--	--	0.0029	--	--	--	--	--
	4/9/2013	0.008	--	0.036	0.0047	--	--	--	--	--	--	--	--	--	--	--	--
	8/22/2013	0.0063	--	0.026	0.0037	--	--	--	--	--	--	--	--	--	--	--	--
	11/22/2013	0.0038	--	0.0043	0.0053	--	--	--	--	--	--	--	--	--	--	--	--
	7/20/2018	0.00655	--	0.0211	0.0034	--	--	--	--	--	--	--	--	--	--	--	--
	12/12/2018	0.00477	--	0.0152	0.00257	--	--	--	--	--	--	--	--	--	--	--	--
	6/28/2019	0.00658	--	0.0260	0.00470	--	--	--	--	--	--	0.00104	--	--	--	--	--
	6/26/2020	0.00547	--	0.0227	0.00399	--	--	--	--	--	--	--	--	--	--	--	--
	6/25/2021	0.00618	--	0.0282	0.00458	--	--	--	--	--	--	--	--	--	--	--	--
6/25/2021*	0.00606	--	0.0280	0.00442	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2	9/3/2010	0.0013	--	--	--	--	--	--	--	--	--	0.0011	--	0.0062	0.0013	--	0.0013
	8/22/2013	--	--	0.001	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/22/2013	0.0017	--	0.0011	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/20/2018	0.001	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/12/2018	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/28/2019	--	--	0.00197	0.00144	--	--	--	--	--	--	--	--	--	--	--	--
	6/26/2020	--	--	0.00225	0.00146	--	--	--	--	--	--	--	--	--	--	--	--
	6/25/2021	--	--	0.00284	0.00150	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	9/3/2010	0.0029	--	0.0028	--	--	--	--	--	--	--	--	--	--	--	--	--
	4/9/2013	0.0064	--	0.021	0.0034	--	--	--	--	--	--	--	--	--	--	--	--
	8/22/2013	0.0026	--	0.014	0.0023	--	--	--	--	--	--	--	--	--	--	--	--
	8/22/2013*	0.0032	--	0.015	0.0024	--	--	--	--	--	--	--	--	--	--	--	--
	11/22/2013	0.0013	--	0.0077	0.0024	--	--	--	--	--	--	--	--	--	--	--	--
	7/20/2018	0.00173	--	0.0104	0.00242	--	--	--	--	--	--	--	--	--	--	--	--
	12/12/2018	0.00132	--	0.00989	0.00225	--	--	--	--	--	--	--	--	--	--	--	--
	6/28/2019	0.00117	--	0.0120	0.00286	--	--	--	--	--	--	--	--	--	--	--	--
	6/26/2020	0.00221	--	0.0109	0.00212	--	--	--	--	--	--	--	--	--	--	--	--
6/25/2021	0.00238	--	0.0157	0.00282	--	--	--	--	--	--	--	--	--	--	--	--	

Table 2 Historical Groundwater Detections
 Aladdin Cleaners and Laundry, Inc. - Montclair
 Birmingham, Jefferson County, Alabama
 Terracon Project No.: E1217009



Sample ID	Collection Date	Chlorinated COCs								Petroleum COCs						Other	
		cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene (PCE)	Trichloroethene (TCE)	1,1,1-Trichloroethane	1,1-Dichloroethane (1,1DCA)	1,1-Dichloroethene (1,1DCE)	Vinyl chloride	Benzene	Ethylbenzene	Methyl tert-butyl ether (MTBE)	Toluene	Total Xylenes	1,2,3-Trimethylbenzene	1,2,4-Trimethylbenzene	Acetone
EPA MCL		0.07	0.1	0.005	0.005	0.2	NL	0.007	0.002	0.005	0.7	NL	1.0	10	NL	NL	NL
EPA RSL		0.0036	0.0068	0.0041	0.00028	0.8	0.0028	0.028	0.000019	0.00046	0.0015	0.014	0.11	0.019	0.0055	0.0056	1.4
MW-4	9/3/2010	0.21	0.0013	0.036	0.026	--	--	--	0.031	--	--	--	--	--	--	--	--
	4/9/2013	0.0024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	8/22/2013	0.0033	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/22/2013	0.0032	--	--	--	--	--	--	0.0010	--	--	--	--	--	--	--	--
	11/22/2013*	0.0040	--	--	--	--	--	--	0.0015	--	--	--	--	--	--	--	--
	7/20/2018	0.0125	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/12/2018	0.0107	--	--	--	--	--	--	0.00114	--	--	--	--	--	--	--	--
	6/28/2019	0.0413	--	--	--	--	--	--	0.00112	--	--	--	--	--	--	--	--
	6/26/2020	0.0408	--	--	--	--	--	--	0.00105	--	--	--	--	--	--	--	--
	6/25/2021	0.0702	--	--	--	--	--	--	0.00306	--	--	--	--	--	--	--	--
MW-5	4/10/2013	0.0042	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	8/22/2013	0.0042	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	8/22/2013*	0.0037	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/20/2018	0.00286	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/12/2018	0.00148	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/28/2019	0.00129	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/26/2020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/26/2020*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/25/2021	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	4/9/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	8/22/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/22/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/20/2018	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/12/2018	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/28/2019	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/26/2020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/25/2021	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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 Aladdin Cleaners and Laundry, Inc. - Montclair
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Sample ID	Collection Date	Chlorinated COCs								Petroleum COCs						Other	
		cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene (PCE)	Trichloroethene (TCE)	1,1,1-Trichloroethane	1,1-Dichloroethane (1,1DCA)	1,1-Dichloroethene (1,1DCE)	Vinyl chloride	Benzene	Ethylbenzene	Methyl tert-butyl ether (MTBE)	Toluene	Total Xylenes	1,2,3-Trimethylbenzene	1,2,4-Trimethylbenzene	Acetone
EPA MCL		0.07	0.1	0.005	0.005	0.2	NL	0.007	0.002	0.005	0.7	NL	1.0	10	NL	NL	NL
EPA RSL		0.0036	0.0068	0.0041	0.00028	0.8	0.0028	0.028	0.000019	0.00046	0.0015	0.014	0.11	0.019	0.0055	0.0056	1.4
MW-8	4/10/2013	0.0046	--	0.0019	0.0012	--	--	--	--	--	--	0.001	--	--	--	--	--
	8/22/2013	--	--	0.0046	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/22/2013	--	--	0.0031	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/20/2018	0.00245	--	0.00335	0.0013	--	--	--	--	--	--	--	--	--	--	--	--
	12/12/2018	0.00294	--	0.00285	0.00123	--	--	--	--	--	--	--	--	--	--	--	--
	6/28/2019	0.00193	--	0.00342	0.00145	--	--	--	--	--	--	--	--	--	--	--	--
	6/26/2020	0.00103	--	0.00229	0.00108	--	--	--	--	--	--	--	--	--	--	--	--
	6/25/2021	0.00309	--	0.00300	0.00200	--	--	--	--	--	--	--	--	--	--	--	--
DW-1	9/3/2010	0.0021	--	0.13	0.014	--	--	--	--	--	--	0.0025	--	--	--	--	--
	9/3/2010*	0.0021	--	0.13	0.014	--	--	--	--	--	--	0.0027	--	--	--	--	--
	4/9/2013	0.017	--	0.038	0.005	--	--	--	--	--	--	0.0011	--	--	--	--	--
	4/9/2013*	0.018	--	0.038	0.0049	--	--	--	--	--	--	0.0011	--	--	--	--	--
	8/22/2013	0.015	--	0.028	0.004	--	--	--	--	--	--	--	--	--	--	--	--
	11/22/2013	0.013	--	0.026	0.0038	--	--	--	--	--	--	--	--	--	--	--	--
	7/20/2018	0.00132	--	0.0071	0.00333	--	--	--	--	--	--	--	--	--	--	--	--
	12/12/2018	0.0168	--	0.0234	0.00684	--	--	--	--	--	--	--	0.00115	--	--	--	--
	6/28/2019	0.00705	--	0.0217	0.00484	--	--	--	--	--	--	--	--	--	--	--	--
	6/26/2020	0.00552	--	0.0283	0.00608	0.00122	--	--	--	--	--	--	--	--	--	--	--
6/25/2021	0.00686	--	0.0515	0.00918	--	--	--	--	--	--	--	--	--	--	--	--	
DW-2	11/22/2013	--	--	0.0011	0.0014	--	--	--	--	--	--	--	--	--	--	--	--
	7/20/2018	0.0186	--	0.0114	0.0133	--	--	--	--	--	--	--	--	--	--	--	--
	12/12/2018	0.0122	--	0.0127	0.0148	--	--	--	--	--	--	--	--	--	--	--	--
	6/28/2019	0.00698	--	0.0114	0.0131	--	--	--	--	--	--	--	--	--	--	--	--
	6/26/2020	0.00539	--	0.00879	0.0105	--	--	--	--	--	--	--	--	--	--	--	--
	6/25/2021	0.00335	--	0.00828	0.00914	--	--	--	--	--	--	--	--	--	--	--	--

Table 2 Historical Groundwater Detections
 Aladdin Cleaners and Laundry, Inc. - Montclair
 Birmingham, Jefferson County, Alabama
 Terracon Project No.: E1217009



Sample ID	Collection Date	Chlorinated COCs								Petroleum COCs						Other	
		cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene (PCE)	Trichloroethene (TCE)	1,1,1-Trichloroethane	1,1-Dichloroethane (1,1DCA)	1,1-Dichloroethene (1,1DCE)	Vinyl chloride	Benzene	Ethylbenzene	Methyl tert-butyl ether (MTBE)	Toluene	Total Xylenes	1,2,3-Trimethylbenzene	1,2,4-Trimethylbenzene	Acetone
EPA MCL		0.07	0.1	0.005	0.005	0.2	NL	0.007	0.002	0.005	0.7	NL	1.0	10	NL	NL	NL
EPA RSL		0.0036	0.0068	0.0041	0.00028	0.8	0.0028	0.028	0.000019	0.00046	0.0015	0.014	0.11	0.019	0.0055	0.0056	1.4
DW-3	4/10/2013	0.0025	--	0.0032	--	--	--	--	--	--	--	0.0021	--	--	--	--	--
	11/22/2013	0.0027	--	0.029	0.0025	--	--	--	--	--	--	0.0020	--	--	--	--	--
	7/20/2018	0.00911	--	0.00354	0.00508	--	--	--	--	--	--	--	--	--	--	--	--
	12/12/2018	0.0113	--	0.00915	0.00427	--	--	--	--	--	--	0.00132	0.00307	--	--	--	--
	6/28/2019	0.00502	--	0.0168	0.00322	--	--	--	--	--	--	0.00109	--	--	--	--	--
	6/26/2020	0.00303	--	0.0161	0.00450	--	--	--	--	--	--	--	--	--	--	--	--
	6/25/2021	0.00260	--	0.0331	0.00463	--	--	--	--	--	--	--	--	--	--	--	--
DW-4	8/22/2013	0.0011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/22/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/20/2018	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/12/2018	0.00174	--	--	--	--	--	--	--	0.00105	0.00113	--	0.0115	0.00603	--	0.00183	--
	6/28/2019	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/26/2020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/25/2021	--	--	0.00142	--	--	--	--	--	--	--	--	--	--	--	--	--
DW-1-D	4/10/2013	--	--	0.0033	0.0011	--	--	--	--	0.0012	--	--	--	--	--	--	0.33
	8/22/2013	--	--	0.098	0.0078	--	--	--	--	--	--	--	--	--	--	--	--
	11/22/2013	--	--	0.086	0.0073	--	--	--	--	--	--	--	--	--	--	--	--
	7/20/2018	0.00115	0.00213	0.00256	0.0292	--	--	--	--	--	--	--	--	--	--	--	--
	12/12/2018	--	--	0.0449	0.0155	--	--	--	--	--	--	--	0.00216	--	--	--	--
	6/28/2019	0.00173	0.00213	0.0276	0.0491	--	--	--	--	--	--	--	--	--	--	--	--
	6/26/2020	0.00491	0.0104	0.0355	0.0578	0.00292	0.00133	0.00176	--	--	--	--	--	--	--	--	--
	6/25/2021	0.00147	0.00129	0.0909	0.0265	--	--	--	--	--	--	--	--	--	--	--	--

All results in milligrams per liter (mg/L).

Only detected constituents are included in table.

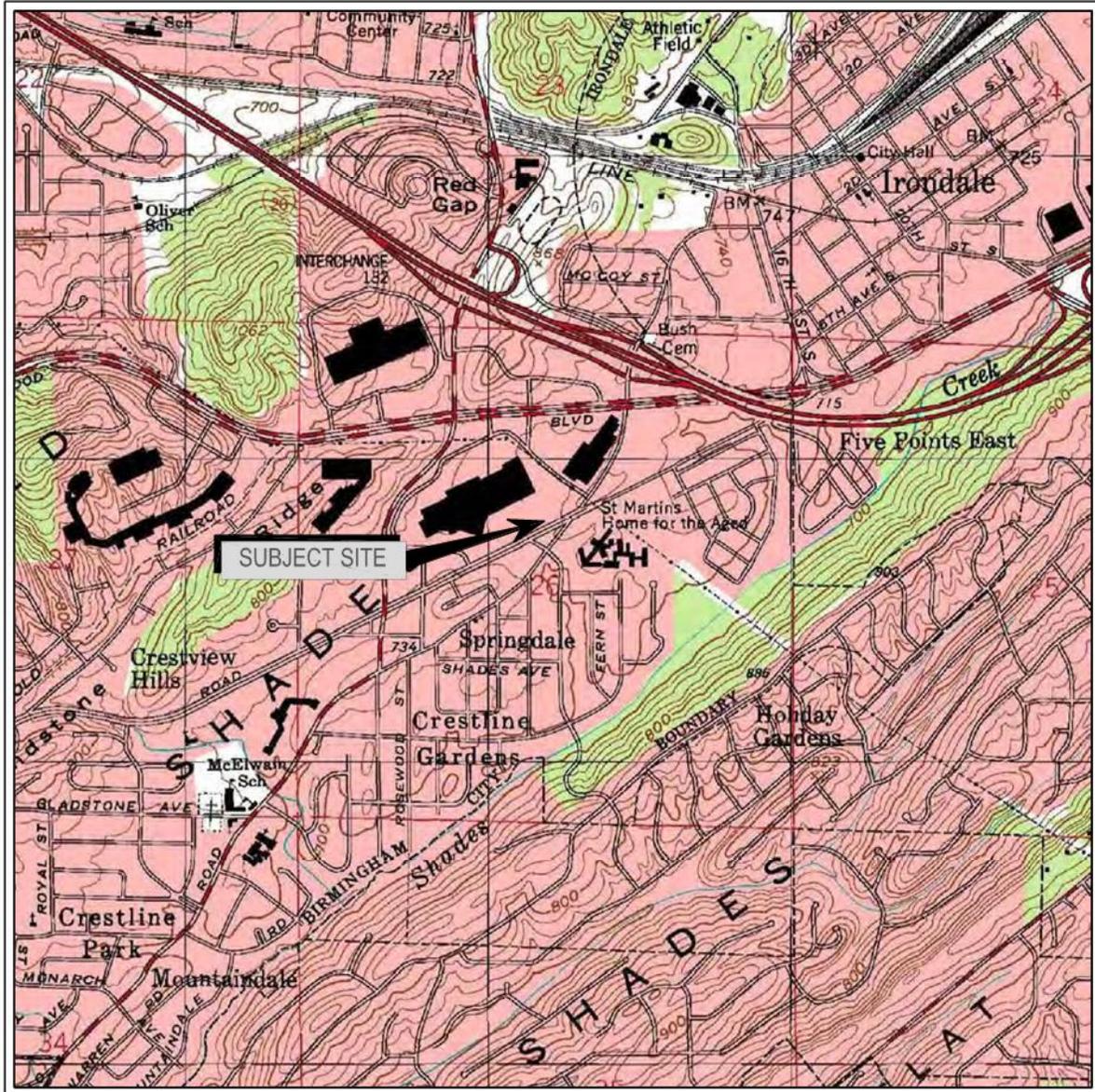
* Indicates Duplicate

COC - Chemical of Concern

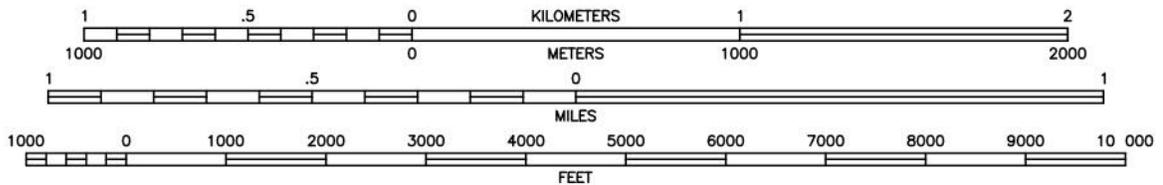
EPA RSL/MCL - EPA Regional Screening Level/Maximum Contaminant Level (May 2021 THQ = 0.1; RSL used when no MCL available)

NL - None Listed

FIGURES



SCALE 1:24 000



CONTOUR INTERVAL 20 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

QUADRANGLE
IRONDALE, AL
1998
7.5 MINUTE SERIES (TOPOGRAPHIC)



*INDICATES WHICH MAP SITE IS LOCATED ON

Project Mngr:	MAD	Project No.	E1217009
Drawn By:	JMG	Scale:	AS SHOWN
Checked By:	FMN	File No.	E1217009
Approved By:	FMN	Date:	JULY 2021

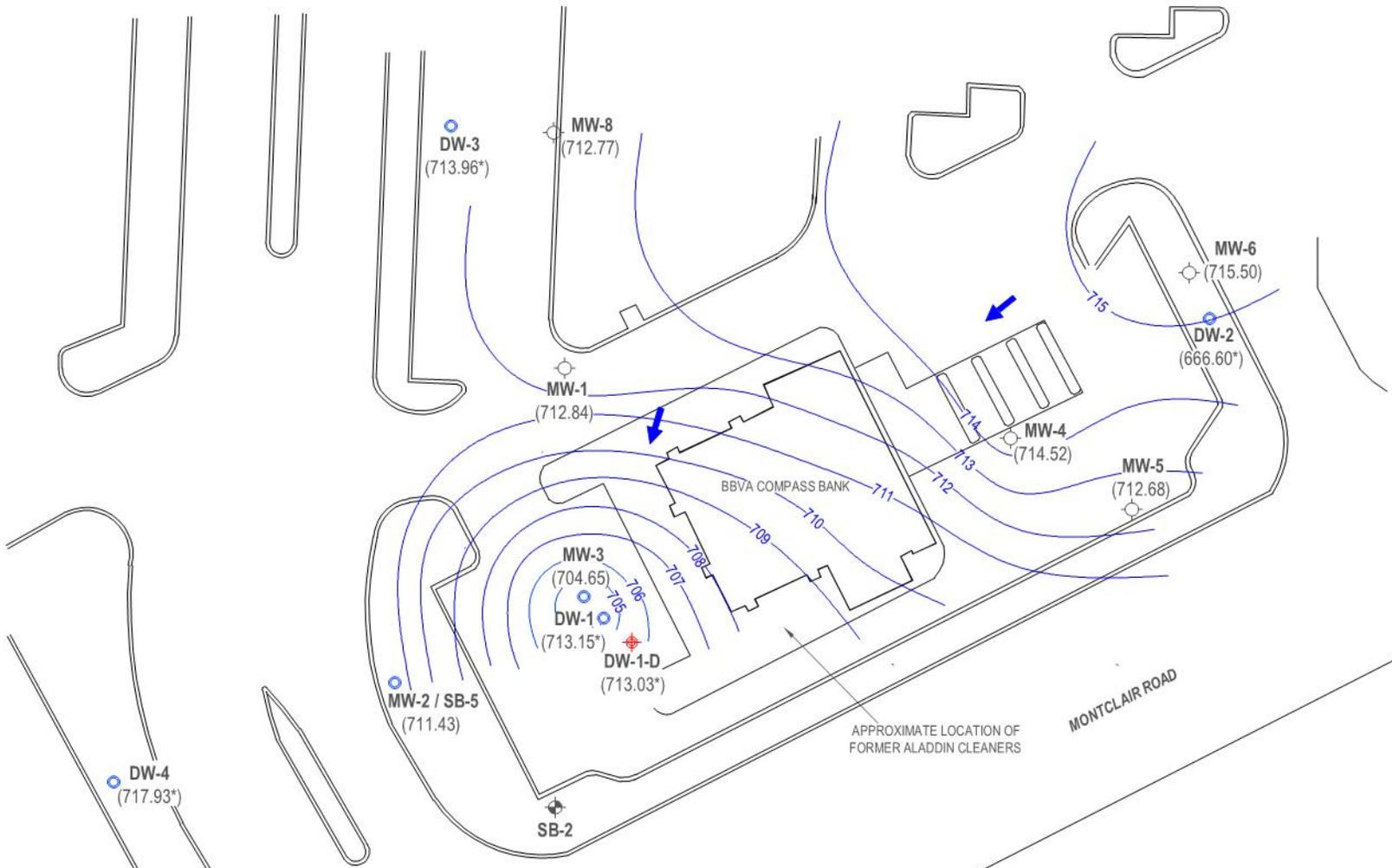
Terracon
Consulting Engineers and Scientists

2147 Riverchase Office Road Hoover, Alabama 35244
(205) 942-1289 (205) 443-5302

TOPOGRAPHIC VICINITY MAP
GROUNDWATER MONITORING REPORT
ALADDIN CLEANERS
1668 MONTCLAIR ROAD
BIRMINGHAM, JEFFERSON COUNTY, AL

FIGURE

1



LEGEND

- SOIL BORING PERFORMED IN SEPTEMBER 2010
- TYPE II MONITORING WELL LOCATION
- TYPE III MONITORING WELL LOCATION
- TYPE III (TRIPLE-CASED) MONITORING WELL LOCATION
- SURFICIAL WATER FLOW DIRECTION

717.93* NOT INCLUDED IN POTENTIOMETRIC CONTOURS
 THIS DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

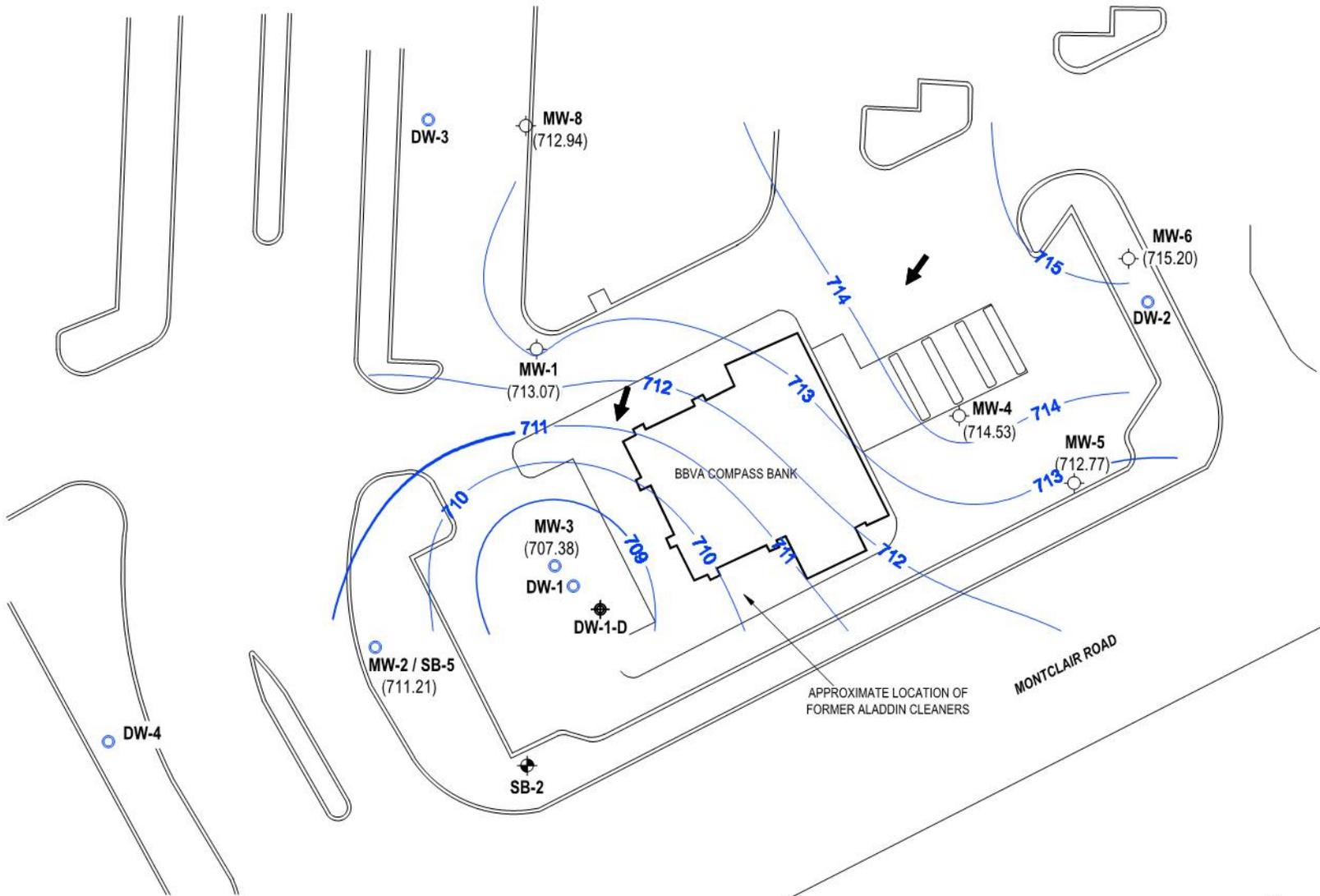
Project Mngr:	MAD	Project No.:	E1217009
Drawn By:	MAD	Scale:	AS SHOWN
Checked By:	MAD/MRF	File No.:	PSME1207125-1
Approved By:	FMN	Date:	JULY 2021

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JUNE 2021 - POTENTIOMETRIC SURFACE MAP
 GROUNDWATER MONITORING REPORT
 ALADDIN CLEANERS
 1668 MONTCLAIR ROAD
 BIRMINGHAM, JEFFERSON COUNTY, A;

FIGUR
 2



LEGEND

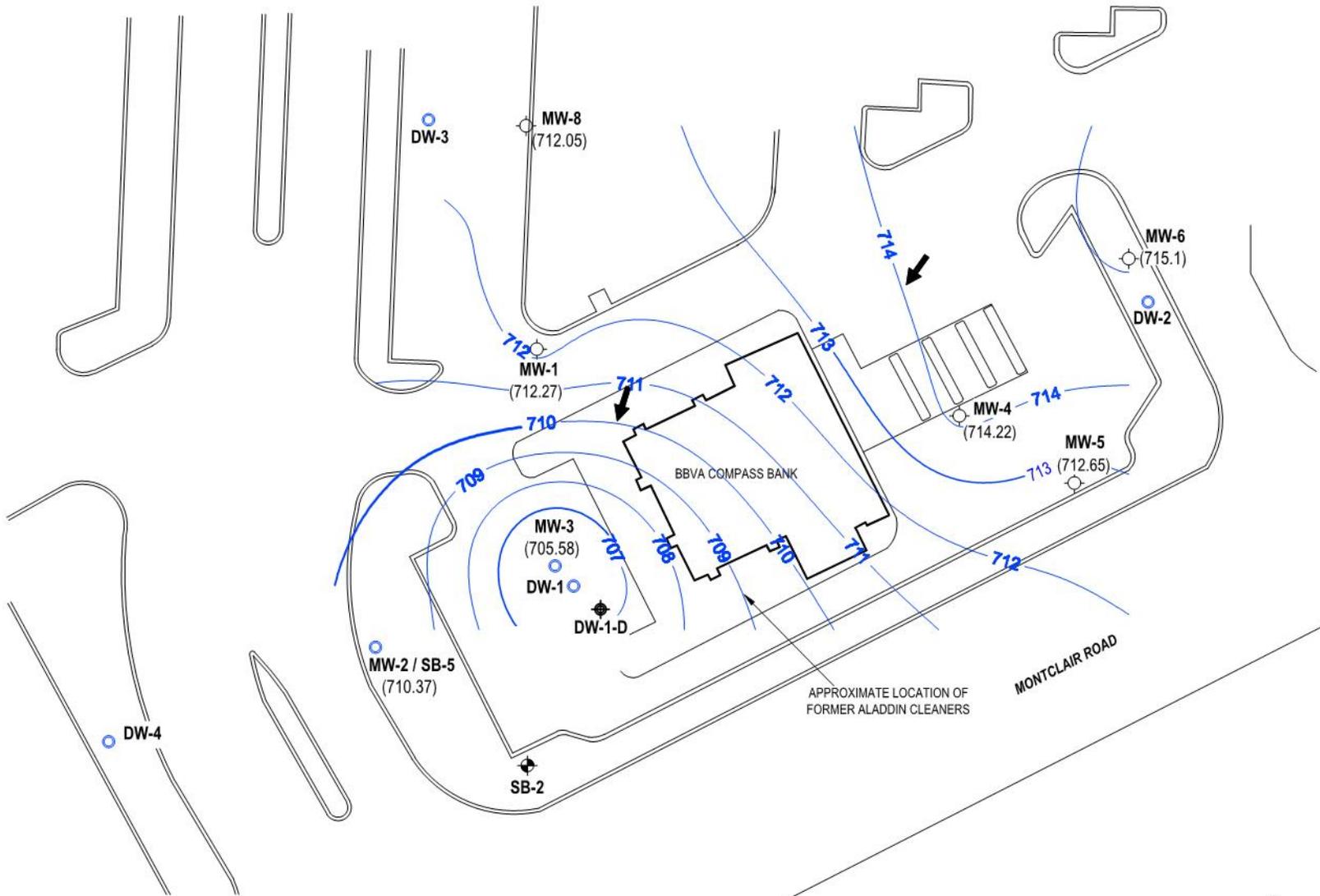
- ⊕ SOIL BORING PERFORMED IN SEPTEMBER 2010
- TYPE II MONITORING WELL LOCATION
- TYPE III MONITORING WELL LOCATION
- ⊕ TYPE III (TRIPLE-CASED) MONITORING WELL LOCATION
- ➔ SURFICIAL WATER FLOW DIRECTION

THIS DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

Project Mngr:	MAD	Project No.:	E1207125	<p>2147 Riverchase Office Rd. Birmingham, Alabama 35244 (205) 942-1289 (205) 443-5302</p>
Drawn By:	RLW	Scale:	AS SHOWN	
Checked By:	MAD/MRF	File No.:	PSME1207125-1	
Approved By:	FMN	Date:	JULY 2020	

<p>JUNE 2020 - POTENTIOMETRIC SURFACE MAP</p> <p>GROUNDWATER MONITORING REPORT ALADDIN CLEANERS 1668 MONTCLAIR ROAD BIRMINGHAM, JEFFERSON COUNTY, A;</p>

<p>FIGURE</p> <p>3</p>



LEGEND

- ◆ SOIL BORING PERFORMED IN SEPTEMBER 2010
- TYPE II MONITORING WELL LOCATION
- TYPE III MONITORING WELL LOCATION
- ◆ TYPE III (TRIPLE-CASED) MONITORING WELL LOCATION
- ➔ SURFICIAL WATER FLOW DIRECTION

THIS DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

Project Mngr:	MAD	Project No.:	E1197130
Drawn By:	RLW	Scale:	AS SHOWN
Checked By:	MAD/MRF	File No.:	PSME1197130-1
Approved By:	FMN	Date:	JULY 2020

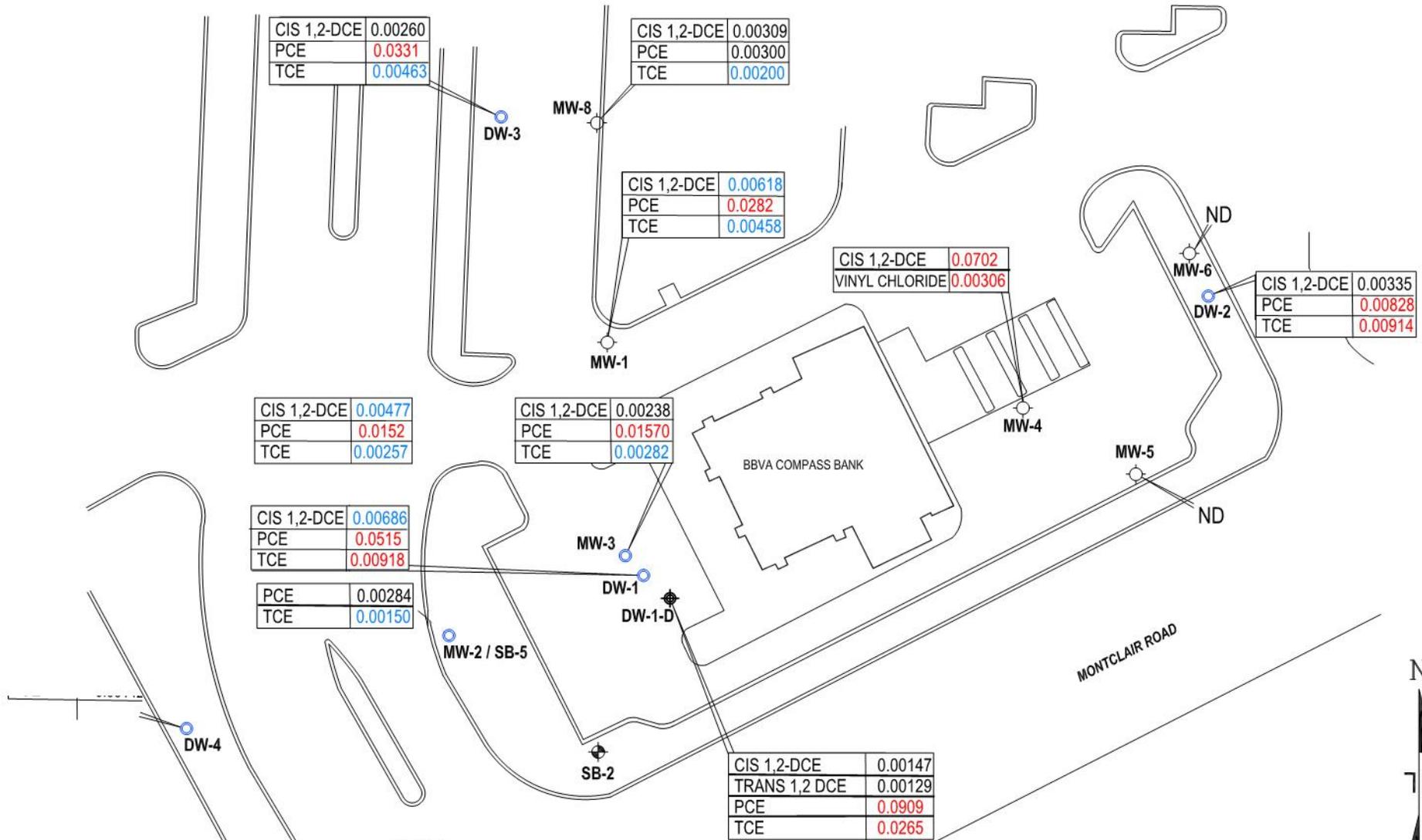
Terracon
Consulting Engineers and Scientists

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(205) 942-1289 (205) 443-5302

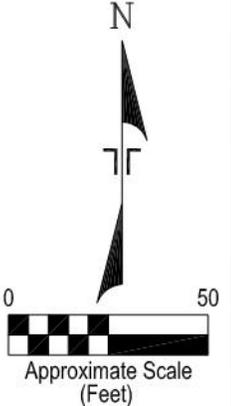
JUNE 2019 - POTENTIOMETRIC SURFACE MAP
GROUNDWATER MONITORING REPORT
ALADDIN CLEANERS
1668 MONTCLAIR ROAD
BIRMINGHAM, JEFFERSON COUNTY, A;

FIGURE

4



NOTES:
 ALL CONCENTRATIONS IN mg/L
 DETECTION SHOWN IN RED EXCEEDS USEPA MCL (NOVEMBER 2018)
 DETECTION SHOWN IN BLUE EXCEEDS USEPA RSL (THQ 0.1; NOVEMBER 2018)
 ND= NOT DETECTED

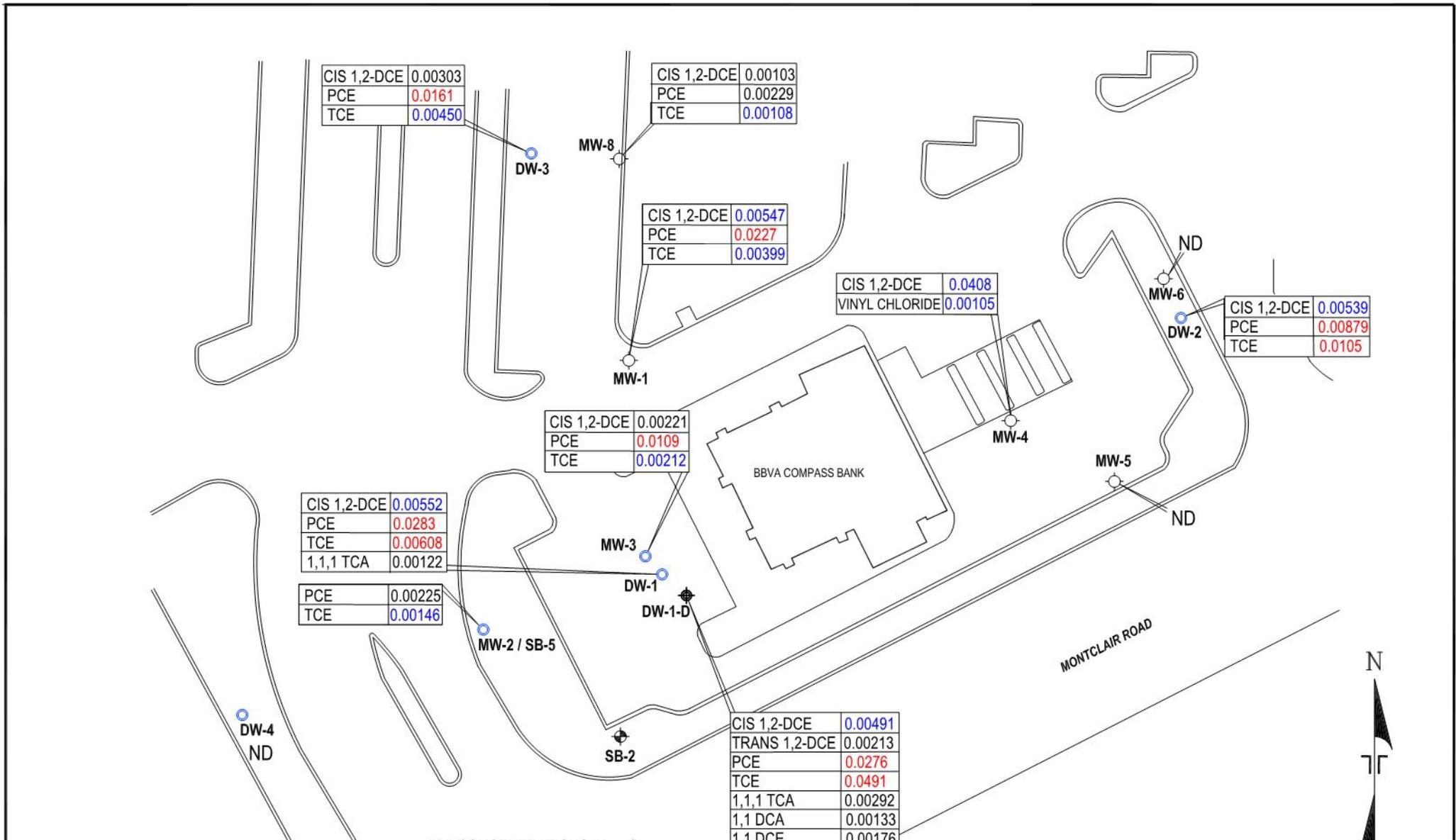


LEGEND

- ◆ SOIL BORING PERFORMED IN SEPTEMBER 2010
- TYPE II MONITORING WELL LOCATION
- TYPE III MONITORING WELL LOCATION
- ◆ TYPE III (TRIPLE-CASED) MONITORING WELL LOCATION

Project Mngr: MAD	Project No. E1217009	Terracon Consulting Engineers and Scientists	DETECTED COCs IN GROUNDWATER (JUNE 2021)	FIGURE
Drawn By: JMG	Scale: AS SHOWN			
Checked By: FMN	File No. E1217009			
Approved By: FMN	Date: July 2021			
110 12th Street North Birmingham, Alabama 35203 (205) 942-1289		GROUNDWATER MONITORING REPORT ALADDIN CLEANERS AND LAUNDRY 1668 MONTCLAIR ROAD BIRMINGHAM, JEFFERSON COUNTY, AL		5

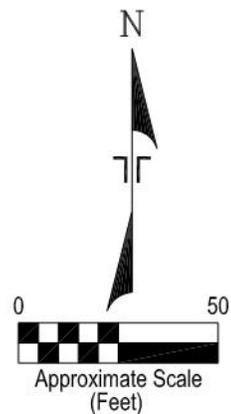
THIS DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES



LEGEND

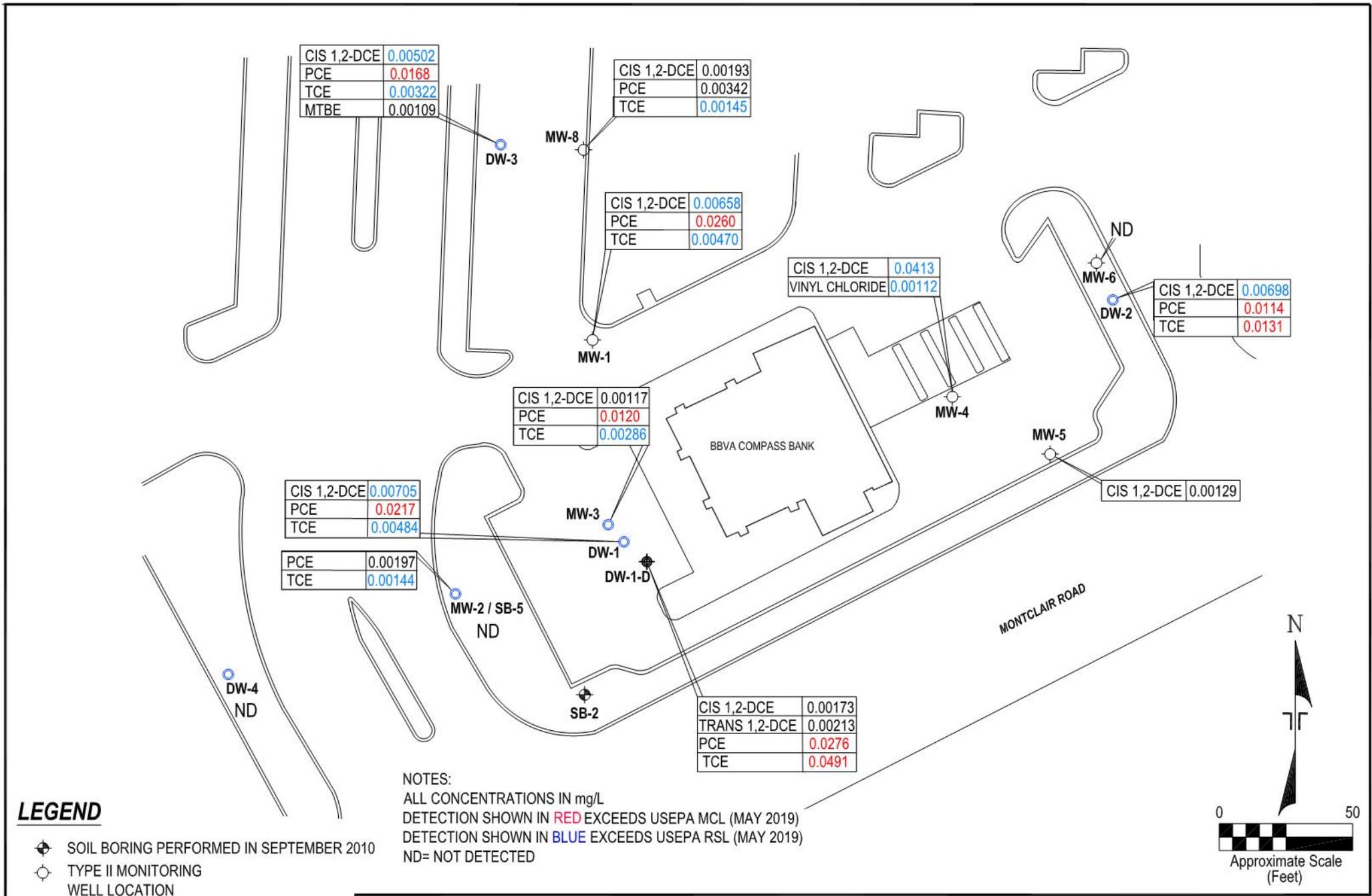
- ◆ SOIL BORING PERFORMED IN SEPTEMBER 2010
- TYPE II MONITORING WELL LOCATION
- TYPE III MONITORING WELL LOCATION
- ◆ TYPE III (TRIPLE-CASED) MONITORING WELL LOCATION

NOTES:
 ALL CONCENTRATIONS IN mg/L
 DETECTION SHOWN IN RED EXCEEDS USEPA MCL (MAY 2020)
 DETECTION SHOWN IN BLUE EXCEED USEPA RSL (MAY 2020)
 ND - NOT DETECTED



THIS DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

Project Mngr: MAD	Project No. E1207125	Terracon Consulting Engineers and Scientists	DETECTED COCs IN GROUNDWATER (JUNE 2020)	FIGURE
Drawn By: DWD	Scale: AS SHOWN			
Checked By: FMN	File No. E1207125			
Approved By: FMN	Date: July 2020			
2147 Riverchase Office Road Birmingham, Alabama 35244 (205) 942-1289		1668 MONTCLAIR ROAD BIRMINGHAM, JEFFERSON COUNTY, AL		6
		GROUNDWATER MONITORING REPORT ALADDIN CLEANERS AND LAUNDRY		



THIS DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

Project Mngr:	MAD	Project No.:	E1197130
Drawn By:	DWD	Scale:	AS SHOWN
Checked By:	FMN	File No.:	E1197130
Approved By:	FMN	Date:	August 2019

Terracon
 Consulting Engineers and Scientists

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 (205) 942-1289 (205) 443-5302

DETECTED COCs IN GROUNDWATER (JUNE 2019)

GROUNDWATER MONITORING REPORT
 ALADDIN CLEANERS AND LAUNDRY
 1668 MONTCLAIR ROAD
 BIRMINGHAM, JEFFERSON COUNTY, AL

FIGURE
 7

APPENDIX A



Terracon provides Geotechnical, Environmental, Construction Materials, and Facilities Consulting Engineering Services delivered with responsiveness, resourcefulness, and reliability.

Office Location: Birmingham, AL.

SITE	<u>Aladdin Cleaners - Montclair</u>	PROJECT #	<u>E1217009</u>
WELL ID	<u>MW-1</u>	DATE	<u>6/25/2021</u>
SAMPLE TYPE	<u>Water/Grab</u>	TIME	<u>0615</u>
SAMPLED BY	<u>Chris Leisering / Meghan DiGiorgio / Jessica Gentrup</u>	WEATHER	<u>Sunny, 70-80's</u>

WELL DEVELOPMENT

DEPTH TO WATER (feet):	<u>7.54</u>	WELL DIAMETER (inches):	<u>2.00</u>
DEPTH OF WELL (feet):	<u>12.78</u>	ONE VOLUME (gal):	<u>0.9</u>
WATER COLUMN (feet):	<u>5.24</u>	THREE VOLUMES (gal):	<u>2.6</u>
		GALLONS PURGED:	<u>2.75</u>

WATER SAMPLE COLLECTION DATA

METHOD OF REMOVAL:	<u>dedicated bailer</u>	PURGE TIME:	<u>0711</u>
METHOD OF SAMPLING:	<u>dedicated bailer</u>	PUMP ON:	<u>NA</u>
TIME OF SAMPLING:	<u>0720</u>	PUMP OFF:	<u>NA</u>

FIELD ANALYSES

	Initial	1V	2V	3V/Sample
TIME	<u>0711</u>	<u>0714</u>	<u>0717</u>	<u>0720</u>
TEMPERATURE (C):	<u>21.86</u>	<u>22.18</u>	<u>22.20</u>	<u>22.02</u>
CONDUCTIVITY (µS/cm):	<u>564</u>	<u>562</u>	<u>562</u>	<u>565</u>
pH:	<u>7.12</u>	<u>6.95</u>	<u>7.03</u>	<u>7.03</u>
DISSOLVED OXYGEN (mg/L)	<u>4.41</u>	<u>2.65</u>	<u>2.36</u>	<u>1.74</u>
ORP (mv/Eh):	<u>58.8</u>	<u>53.5</u>	<u>48.3</u>	<u>44.0</u>

REASON FOR SAMPLING:	<u>Groundwater Monitoring Event</u>
OTHER (Specify):	<u></u>
METHOD OF SHIPMENT:	<u>Hand Courier</u>
PHYSICAL APPEARANCE:	<u></u>
TYPE OF ANALYSES:	<u>VOC 8260</u>
CONTAINER SIZE, TYPE & NO.:	<u>3 x 40-ml amber vov vials</u>
PRESERVATIVE:	<u>HCl; ice</u>

REMARKS

Duplicate sample collected.

NA - Not Applicable

V - Well Volumes



Terracon provides Geotechnical, Environmental, Construction Materials, and Facilities Consulting Engineering Services delivered with responsiveness, resourcefulness, and reliability.

Office Location: Birmingham, AL.

SITE	<u>Aladdin Cleaners - Montclair</u>	PROJECT #.	<u>E1217009</u>
WELL ID	<u>MW-2</u>	DATE	<u>6/25/2021</u>
SAMPLE TYPE	<u>Water/Grab</u>	TIME	<u>0615</u>
SAMPLED BY	<u>Chris Leisering / Meghan DiGiorgio / Jessica Gentrup</u>	WEATHER	<u>Sunny, 70-80's</u>

WELL DEVELOPMENT

DEPTH TO WATER (feet):	<u>7.31</u>	WELL DIAMETER (inches):	<u>2.00</u>
DEPTH OF WELL (feet):	<u>22.20</u>	ONE VOLUME (gal):	<u>2.4</u>
WATER COLUMN (feet):	<u>14.89</u>	THREE VOLUMES (gal):	<u>7.3</u>
		GALLONS PURGED:	<u>5.0 (dry)</u>

WATER SAMPLE COLLECTION DATA

METHOD OF REMOVAL:	<u>dedicated bailer</u>	PURGE TIME:	<u>0835</u>
METHOD OF SAMPLING:	<u>dedicated bailer</u>	PUMP ON:	<u>NA</u>
TIME OF SAMPLING:	<u>0845</u>	PUMP OFF:	<u>NA</u>

FIELD ANALYSES

	Initial	1V	2V	Sample
TIME	<u>0835</u>	<u>0837</u>	<u>0841</u>	<u>0845</u>
TEMPERATURE (C):	<u>23.9</u>	<u>22.5</u>	<u>22.2</u>	<u>22.9</u>
CONDUCTIVITY (µS/cm):	<u>685</u>	<u>633</u>	<u>625</u>	<u>628</u>
pH:	<u>7.53</u>	<u>7.38</u>	<u>7.37</u>	<u>7.46</u>
DISSOLVED OXYGEN (mg/L)	<u>5.92</u>	<u>3.72</u>	<u>4.83</u>	<u>5.62</u>
ORP (mv/Eh):	<u>57.9</u>	<u>63.2</u>	<u>66.2</u>	<u>55.4</u>

REASON FOR SAMPLING:	<u>Groundwater Monitoring Event</u>
OTHER (Specify):	<u></u>
METHOD OF SHIPMENT:	<u>Hand Courier</u>
PHYSICAL APPEARANCE:	<u></u>
TYPE OF ANALYSES:	<u>VOC 8260</u>
CONTAINER SIZE, TYPE & NO.:	<u>3 x 40-ml amber voa vials</u>
PRESERVATIVE:	<u>HCl; ice</u>

REMARKS

NA - Not Applicable

V - Well Volumes



Terracon provides Geotechnical, Environmental, Construction Materials, and Facilities Consulting Engineering Services delivered with responsiveness, resourcefulness, and reliability.

Office Location: Birmingham, AL.

SITE	<u>Aladdin Cleaners - Montclair</u>	PROJECT #.	<u>E1217009</u>
WELL ID	<u>MW-3</u>	DATE	<u>6/25/2021</u>
SAMPLE TYPE	<u>Water/Grab</u>	TIME	<u>0615</u>
SAMPLED BY	<u>Chris Leisering / Meghan DiGiorgio / Jessica Gentrup</u>	WEATHER	<u>Sunny, 70-80's</u>

WELL DEVELOPMENT

DEPTH TO WATER (feet):	<u>14.72</u>	WELL DIAMETER (inches):	<u>2.00</u>
DEPTH OF WELL (feet):	<u>21.10</u>	ONE VOLUME (gal):	<u>1.0</u>
WATER COLUMN (feet):	<u>6.38</u>	THREE VOLUMES (gal):	<u>3.1</u>
		GALLONS PURGED:	<u>3.25 (dry)</u>

WATER SAMPLE COLLECTION DATA

METHOD OF REMOVAL:	<u>dedicated bailer</u>	PURGE TIME:	<u>0647</u>
METHOD OF SAMPLING:	<u>dedicated bailer</u>	PUMP ON:	<u>NA</u>
TIME OF SAMPLING:	<u>0700</u>	PUMP OFF:	<u>NA</u>

FIELD ANALYSES

	Initial	1V	2V	Sample
TIME	0647	0651	0654	0700
TEMPERATURE (C):	21.9	21.6	21.58	21.51
CONDUCTIVITY (µS/cm):	644	575	565	561
pH:	8.61	7.64	7.11	6.97
DISSOLVED OXYGEN (mg/L)	12.99*	4.34	3.79	3.36
ORP (mv/Eh):	21.5	50.1	62.8	57.1

REASON FOR SAMPLING:	<u>Groundwater Monitoring Event</u>
OTHER (Specify):	<u></u>
METHOD OF SHIPMENT:	<u>Hand Courier</u>
PHYSICAL APPEARANCE:	<u></u>
TYPE OF ANALYSES:	<u>VOC 8260</u>
CONTAINER SIZE, TYPE & NO.:	<u>3 x 40-ml amber voa vials</u>
PRESERVATIVE:	<u>HCl; ice</u>

REMARKS

<u>NA - Not Applicable</u>
<u>V - Well Volumes</u>
<u>12.99* - Suspected Equipment Malfunction at time of reading</u>



Terracon provides Geotechnical, Environmental, Construction Materials, and Facilities Consulting Engineering Services delivered with responsiveness, resourcefulness, and reliability.

Office Location: Birmingham, AL

SITE	<u>Aladdin Cleaners - Montclair</u>	PROJECT #.	<u>E1217009</u>
WELL ID	<u>MW-4</u>	DATE	<u>6/25/2021</u>
SAMPLE TYPE	<u>Water/Grab</u>	TIME	<u>0615</u>
SAMPLED BY	<u>Chris Leisering / Meghan DiGiorgio / Jessica Gentrup</u>	WEATHER	<u>Sunny, 70-80's</u>

WELL DEVELOPMENT

DEPTH TO WATER (feet):	<u>6.09</u>	WELL DIAMETER (inches):	<u>2.00</u>
DEPTH OF WELL (feet):	<u>11.23</u>	ONE VOLUME (gal):	<u>0.8</u>
WATER COLUMN (feet):	<u>5.14</u>	THREE VOLUMES (gal):	<u>2.5</u>
		GALLONS PURGED:	<u>2.5</u>

WATER SAMPLE COLLECTION DATA

METHOD OF REMOVAL:	<u>dedicated bailer</u>	PURGE TIME:	<u>0804</u>
METHOD OF SAMPLING:	<u>dedicated bailer</u>	PUMP ON:	<u>NA</u>
TIME OF SAMPLING:	<u>0812</u>	PUMP OFF:	<u>NA</u>

FIELD ANALYSES

	Initial	1V	2V	3V/Sample
TIME	0804	0806	0808	0812
TEMPERATURE (C):	23.32	23.55	23.33	23.01
CONDUCTIVITY (µS/cm):	531	542	552	558
pH:	6.95	7.20	7.28	7.29
DISSOLVED OXYGEN (mg/L)	2.05	1.55	1.27	1.56
ORP (mv/Eh):	21.0	-14.2	-37.7	-49.6

REASON FOR SAMPLING:	<u>Groundwater Monitoring Event</u>
OTHER (Specify):	<u></u>
METHOD OF SHIPMENT:	<u>Hand Courier</u>
PHYSICAL APPEARANCE:	<u></u>
TYPE OF ANALYSES:	<u>VOC 8260</u>
CONTAINER SIZE, TYPE & NO.:	<u>3 x 40-ml amber voa vials</u>
PRESERVATIVE:	<u>HCl; ice</u>

REMARKS

<u>NA - Not Applicable</u>
<u>V - Well Volumes</u>
<u></u>
<u></u>
<u></u>



Terracon provides Geotechnical, Environmental, Construction Materials, and Facilities Consulting Engineering Services delivered with responsiveness, resourcefulness, and reliability.

Office Location: Birmingham, AL

SITE	<u>Aladdin Cleaners - Montclair</u>	PROJECT #.	<u>E1217009</u>
WELL ID	<u>MW-5</u>	DATE	<u>6/25/2021</u>
SAMPLE TYPE	<u>Water/Grab</u>	TIME	<u>0615</u>
SAMPLED BY	<u>Chris Leisering / Meghan DiGiorgio / Jessica Gentrup</u>	WEATHER	<u>Sunny, 70-80's</u>

WELL DEVELOPMENT

DEPTH TO WATER (feet):	<u>6.38</u>	WELL DIAMETER (inches):	<u>2.00</u>
DEPTH OF WELL (feet):	<u>11.31</u>	ONE VOLUME (gal):	<u>0.8</u>
WATER COLUMN (feet):	<u>4.93</u>	THREE VOLUMES (gal):	<u>2.4</u>
		GALLONS PURGED:	<u>2.5</u>

WATER SAMPLE COLLECTION DATA

METHOD OF REMOVAL:	<u>dedicated bailer</u>	PURGE TIME:	<u>0744</u>
METHOD OF SAMPLING:	<u>dedicated bailer</u>	PUMP ON:	<u>NA</u>
TIME OF SAMPLING:	<u>0750</u>	PUMP OFF:	<u>NA</u>

FIELD ANALYSES

	Initial	1V	2V	3V/Sample
TIME:	<u>0744</u>	<u>0746</u>	<u>0748</u>	<u>0750</u>
TEMPERATURE (C):	<u>22.25</u>	<u>22.32</u>	<u>22.40</u>	<u>22.01</u>
CONDUCTIVITY (µS/cm):	<u>488</u>	<u>483</u>	<u>483</u>	<u>528</u>
pH:	<u>7.20</u>	<u>7.14</u>	<u>7.14</u>	<u>7.06</u>
DISSOLVED OXYGEN (mg/L)	<u>3.32</u>	<u>2.64</u>	<u>1.83</u>	<u>1.80</u>
ORP (mv/Eh):	<u>60.5</u>	<u>48.0</u>	<u>40.6</u>	<u>36.3</u>

REASON FOR SAMPLING:	<u>Groundwater Monitoring Event</u>
OTHER (Specify):	<u></u>
METHOD OF SHIPMENT:	<u>Hand Courier</u>
PHYSICAL APPEARANCE:	<u></u>
TYPE OF ANALYSES:	<u>VOC 8260</u>
CONTAINER SIZE, TYPE & NO.:	<u>3 x 40-ml amber vov vials</u>
PRESERVATIVE:	<u>HCl; ice</u>

REMARKS

NA - Not Applicable

V - Well Volumes



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Office Location: Birmingham, AL

SITE	<u>Aladdin Cleaners - Montclair</u>	PROJECT #.	<u>E1217009</u>
WELL ID	<u>MW-6</u>	DATE	<u>6/25/2021</u>
SAMPLE TYPE	<u>Water/Grab</u>	TIME	<u>0615</u>
SAMPLED BY	<u>Chris Leisering / Meghan DiGiorgio / Jessica Gentrup</u>	WEATHER	<u>Sunny, 70-80's</u>

WELL DEVELOPMENT

DEPTH TO WATER (feet):	<u>4.88</u>	WELL DIAMETER (inches):	<u>2.00</u>
DEPTH OF WELL (feet):	<u>10.35</u>	ONE VOLUME (gal):	<u>0.9</u>
WATER COLUMN (feet):	<u>5.47</u>	THREE VOLUMES (gal):	<u>2.7</u>
		GALLONS PURGED:	<u>2.75</u>

WATER SAMPLE COLLECTION DATA

METHOD OF REMOVAL:	<u>dedicated bailer</u>	PURGE TIME:	<u>0819</u>
METHOD OF SAMPLING:	<u>dedicated bailer</u>	PUMP ON:	<u>NA</u>
TIME OF SAMPLING:	<u>0830</u>	PUMP OFF:	<u>NA</u>

FIELD ANALYSES

	Initial	1V	2V	3V/Sample
TIME:	0819	0822	0825	0830
TEMPERATURE (C):	22.48	23.11	22.92	22.98
CONDUCTIVITY (µS/cm):	621	527	553	556
pH:	7.15	7.31	7.29	7.30
DISSOLVED OXYGEN (mg/L)	1.15	1.31	1.27	1.48
ORP (mv/Eh):	-23.8	-52.7	-55.3	-58.6

REASON FOR SAMPLING:	<u>Groundwater Monitoring Event</u>
OTHER (Specify):	<u></u>
METHOD OF SHIPMENT:	<u>Hand Courier</u>
PHYSICAL APPEARANCE:	<u></u>
TYPE OF ANALYSES:	<u>VOC 8260</u>
CONTAINER SIZE, TYPE & NO.:	<u>3 x 40-ml amber vov vials</u>
PRESERVATIVE:	<u>HCl; ice</u>

REMARKS

NA - Not Applicable
V - Well Volumes



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Office Location: Birmingham, AL

SITE	<u>Aladdin Cleaners - Montclair</u>	PROJECT #.	<u>E1217009</u>
WELL ID	<u>MW-8</u>	DATE	<u>6/25/2021</u>
SAMPLE TYPE	<u>Water/Grab</u>	TIME	<u>0615</u>
SAMPLED BY	<u>Chris Leisering / Meghan DiGiorgio / Jessica Gentrup</u>	WEATHER	<u>Sunny, 70-80's</u>

WELL DEVELOPMENT

DEPTH TO WATER (feet):	<u>8.11</u>	WELL DIAMETER (inches):	<u>2.00</u>
DEPTH OF WELL (feet):	<u>11.30</u>	ONE VOLUME (gal):	<u>0.52</u>
WATER COLUMN (feet):	<u>3.19</u>	THREE VOLUMES (gal):	<u>1.56</u>
		GALLONS PURGED:	<u>1.5</u>

WATER SAMPLE COLLECTION DATA

METHOD OF REMOVAL:	<u>dedicated bailer</u>	PURGE TIME:	<u>0840</u>
METHOD OF SAMPLING:	<u>dedicated bailer</u>	PUMP ON:	<u>NA</u>
TIME OF SAMPLING:	<u>0849</u>	PUMP OFF:	<u>NA</u>

FIELD ANALYSES

	Initial	1V	2V	3V/Sample
TIME:	0840	0845	0846	0849
TEMPERATURE (C):	24.27	24.27	24.05	23.41
CONDUCTIVITY (µS/cm):	429	454	469	503
pH:	7.13	6.94	6.86	6.85
DISSOLVED OXYGEN (mg/L)	1.84	1.66	1.64	1.73
ORP (mv/Eh):	26.3	31.0	33.8	34.6

REASON FOR SAMPLING:	<u>Groundwater Monitoring Event</u>
OTHER (Specify):	<u></u>
METHOD OF SHIPMENT:	<u>Hand Courier</u>
PHYSICAL APPEARANCE:	<u></u>
TYPE OF ANALYSES:	<u>VOC 8260</u>
CONTAINER SIZE, TYPE & NO.:	<u>3 x 40-ml amber voa vials</u>
PRESERVATIVE:	<u>HCl; ice</u>

REMARKS

NA - Not Applicable
V - Well Volumes



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Office Location: Birmingham, AL

SITE	<u>Aladdin Cleaners - Montclair</u>	PROJECT #	<u>E1217009</u>
WELL ID	<u>DW-1</u>	DATE	<u>6/25/2021</u>
SAMPLE TYPE	<u>Water/Grab</u>	TIME	<u>0615</u>
SAMPLED BY	<u>Chris Leisering / Meghan DiGiorgio / Jessica Gentrup</u>	WEATHER	<u>Sunny, 70-80's</u>

WELL DEVELOPMENT

DEPTH TO WATER (feet):	<u>6.23</u>	WELL DIAMETER (inches):	<u>2.00</u>
DEPTH OF WELL (feet):	<u>55.72</u>	ONE VOLUME (gal):	<u>8.1</u>
WATER COLUMN (feet):	<u>49.49</u>	THREE VOLUMES (gal):	<u>24.2</u>
		GALLONS PURGED:	<u>14.5 (dry)</u>

WATER SAMPLE COLLECTION DATA

METHOD OF REMOVAL:	<u>sub pump</u>	PURGE TIME:	<u>0725</u>
METHOD OF SAMPLING:	<u>sub pump</u>	PUMP ON:	<u>NA</u>
TIME OF SAMPLING:	<u>0745</u>	PUMP OFF:	<u>NA</u>

FIELD ANALYSES

	<u>Initial</u>	<u>1V</u>	<u>Sample</u>
TIME:	<u>0725</u>	<u>0733</u>	<u>0745</u>
TEMPERATURE (C):	<u>22.1</u>	<u>22.3</u>	<u>22.7</u>
CONDUCTIVITY (µS/cm):	<u>700</u>	<u>694</u>	<u>663</u>
pH:	<u>7.48</u>	<u>7.28</u>	<u>7.29</u>
DISSOLVED OXYGEN (mg/L)	<u>3.25</u>	<u>2.96</u>	<u>3.76</u>
ORP (mv/Eh):	<u>97.1</u>	<u>61.5</u>	<u>58.0</u>

REASON FOR SAMPLING:	<u>Groundwater Monitoring Event</u>
OTHER (Specify):	<u></u>
METHOD OF SHIPMENT:	<u>Hand Courier</u>
PHYSICAL APPEARANCE:	<u></u>
TYPE OF ANALYSES:	<u>VOC 8260</u>
CONTAINER SIZE, TYPE & NO.:	<u>2 x 40-ml amber voa vials</u>
PRESERVATIVE:	<u>HCl; ice</u>

REMARKS

<u>NA - Not Applicable</u>
<u>V - Well Volumes</u>
<u></u>
<u></u>



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Office Location: Birmingham, AL

SITE	<u>Aladdin Cleaners - Montclair</u>	PROJECT #.	<u>E1217009</u>
WELL ID	<u>DW-1-D</u>	DATE	<u>6/25/2021</u>
SAMPLE TYPE	<u>Water/Grab</u>	TIME	<u>0615</u>
SAMPLED BY	<u>Chris Leisering / Meghan DiGiorgio / Jessica Gentrup</u>	WEATHER	<u>Sunny, 70-80's</u>

WELL DEVELOPMENT

DEPTH TO WATER (feet):	<u>6.35</u>	WELL DIAMETER (inches):	<u>2.00</u>
DEPTH OF WELL (feet):	<u>79.77</u>	ONE VOLUME (gal):	<u>11.97</u>
WATER COLUMN (feet):	<u>73.42</u>	THREE VOLUMES (gal):	<u>35.9</u>
		GALLONS PURGED:	<u>12.0 (dry)</u>

WATER SAMPLE COLLECTION DATA

METHOD OF REMOVAL:	<u>sub pump</u>	PURGE TIME:	<u>0652</u>
METHOD OF SAMPLING:	<u>sub pump</u>	PUMP ON:	<u>NA</u>
TIME OF SAMPLING:	<u>0715</u>	PUMP OFF:	<u>NA</u>

FIELD ANALYSES

	Initial	1V	Sample
TIME:	0652	0709	0715
TEMPERATURE (C):	22.0	22.5	23.2
CONDUCTIVITY (µS/cm):	644	537	530
pH:	7.46	7.54	7.64
DISSOLVED OXYGEN (mg/L)	3.13	5.61	4.72
ORP (mv/Eh):	87.9	96.7	96.3

REASON FOR SAMPLING:	<u>Groundwater Monitoring Event</u>
OTHER (Specify):	<u></u>
METHOD OF SHIPMENT:	<u>Hand Courier</u>
PHYSICAL APPEARANCE:	<u></u>
TYPE OF ANALYSES:	<u>VOC 8260</u>
CONTAINER SIZE, TYPE & NO.:	<u>3 x 40-ml amber voa vials</u>
PRESERVATIVE:	<u>HCl; ice</u>

REMARKS

<u>NA - Not Applicable</u>
<u>V - well volumes</u>
<u></u>
<u></u>
<u></u>



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Office Location: Birmingham, AL

SITE	<u>Aladdin Cleaners - Montclair</u>	PROJECT #	<u>E1217009</u>
WELL ID	<u>DW-2</u>	DATE	<u>6/25/2021</u>
SAMPLE TYPE	<u>Water/Grab</u>	TIME	<u>0615</u>
SAMPLED BY	<u>Chris Leisering / Meghan DiGiorgio / Jessica Gentrup</u>	WEATHER	<u>Sunny, 70-80's</u>

WELL DEVELOPMENT

DEPTH TO WATER (feet):	<u>53.80</u>	WELL DIAMETER (inches):	<u>2.00</u>
DEPTH OF WELL (feet):	<u>55.08</u>	ONE VOLUME (gal):	<u>0.2</u>
WATER COLUMN (feet):	<u>1.28</u>	THREE VOLUMES (gal):	<u>0.6</u>
		GALLONS PURGED:	<u>0.5 (dry)</u>

WATER SAMPLE COLLECTION DATA

METHOD OF REMOVAL:	<u>bailer</u>	PURGE TIME:	<u>0802</u>
METHOD OF SAMPLING:	<u>bailer</u>	PUMP ON:	<u>NA</u>
TIME OF SAMPLING:	<u>0815</u>	PUMP OFF:	<u>NA</u>

FIELD ANALYSES

	Initial	1V	2V	Sample
TIME:	0802	0808	0812	0815
TEMPERATURE (C):	21.6	21.4	21.5	21.7
CONDUCTIVITY (µS/cm):	3,769	3,916	3,920	3,936
pH:	7.39	7.68	7.69	7.66
DISSOLVED OXYGEN (mg/L)	3.90	5.08	4.58	4.45
ORP (mv/Eh):	75.7	69.7	71.4	50.6

REASON FOR SAMPLING:	<u>Groundwater Monitoring Event</u>
OTHER (Specify):	<u></u>
METHOD OF SHIPMENT:	<u>Hand Courier</u>
PHYSICAL APPEARANCE:	<u></u>
TYPE OF ANALYSES:	<u>VOC 8260</u>
CONTAINER SIZE, TYPE & NO.:	<u>3 x 40-ml amber voa vials</u>
PRESERVATIVE:	<u>HCl; ice</u>

REMARKS

NA - Not Applicable

V - Well Volumes



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Office Location: Birmingham, AL

SITE	<u>Aladdin Cleaners - Montclair</u>	PROJECT #.	<u>E1217009</u>
WELL ID	<u>DW-3</u>	DATE	<u>6/25/2021</u>
SAMPLE TYPE	<u>Water/Grab</u>	TIME	<u>0615</u>
SAMPLED BY	<u>Chris Leisering / Meghan DiGiorgio / Jessica Gentrup</u>	WEATHER	<u>Sunny, 70-80's</u>

WELL DEVELOPMENT

DEPTH TO WATER (feet):	<u>6.51</u>	WELL DIAMETER (inches):	<u>2.00</u>
DEPTH OF WELL (feet):	<u>55.86</u>	ONE VOLUME (gal):	<u>8.0</u>
WATER COLUMN (feet):	<u>49.35</u>	THREE VOLUMES (gal):	<u>24.1</u>
		GALLONS PURGED:	<u>9.5 (dry)</u>

WATER SAMPLE COLLECTION DATA

METHOD OF REMOVAL:	<u>sub pump</u>	PURGE TIME:	<u>0907</u>
METHOD OF SAMPLING:	<u>sub pump</u>	PUMP ON:	<u>NA</u>
TIME OF SAMPLING:	<u>0918</u>	PUMP OFF:	<u>NA</u>

FIELD ANALYSES

	Initial	1V	Sample
TIME	<u>0907</u>	<u>0910</u>	<u>0918</u>
TEMPERATURE (F):	<u>23.1</u>	<u>23.8</u>	<u>24.5</u>
CONDUCTIVITY (µS/cm):	<u>550</u>	<u>557</u>	<u>579</u>
pH:	<u>7.76</u>	<u>7.54</u>	<u>7.60</u>
DISSOLVED OXYGEN (mg/L)	<u>6.07</u>	<u>4.94</u>	<u>5.03</u>
ORP (mv/Eh):	<u>62.6</u>	<u>67.3</u>	<u>57.4</u>

REASON FOR SAMPLING:	<u>Groundwater Monitoring Event</u>
OTHER (Specify):	<u></u>
METHOD OF SHIPMENT:	<u>Hand Courier</u>
PHYSICAL APPEARANCE:	<u></u>
TYPE OF ANALYSES:	<u>VOC 8260</u>
CONTAINER SIZE, TYPE & NO.:	<u>3 x 40-ml amber voa vials</u>
PRESERVATIVE:	<u>HCl; ice</u>

REMARKS

<u>NA - Not Applicable</u>
<u>V - Well Volumes</u>
<u></u>
<u></u>
<u></u>



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Office Location: Birmingham, AL.

SITE	<u>Aladdin Cleaners - Montclair</u>	PROJECT #.	<u>E1217009</u>
WELL ID	<u>DW-4</u>	DATE	<u>6/25/2021</u>
SAMPLE TYPE	<u>Water/Grab</u>	TIME	<u>0615</u>
SAMPLED BY	<u>Chris Leisering / Meghan DiGiorgio / Jessica Gentrup</u>	WEATHER	<u>Sunny, 70-80's</u>

WELL DEVELOPMENT

DEPTH TO WATER (feet):	<u>0.52</u>	WELL DIAMETER (inches):	<u>2.00</u>
DEPTH OF WELL (feet):	<u>55.74</u>	ONE VOLUME (gal):	<u>9.0</u>
WATER COLUMN (feet):	<u>55.22</u>	THREE VOLUMES (gal):	<u>27.0</u>
		GALLONS PURGED:	<u>10.0 (dry)</u>

WATER SAMPLE COLLECTION DATA

METHOD OF REMOVAL:	<u>sub pump</u>	PURGE TIME:	<u>0941</u>
METHOD OF SAMPLING:	<u>sub pump</u>	PUMP ON:	<u>NA</u>
TIME OF SAMPLING:	<u>1005</u>	PUMP OFF:	<u>NA</u>

FIELD ANALYSES

	Initial	1V	Sample
TIME	0941	0955	1005
TEMPERATURE (C):	24.2	24.7	25.4
CONDUCTIVITY (µS/cm):	203	218	278
pH:	7.94	7.69	7.65
DISSOLVED OXYGEN (mg/L)	2.47	1.61	2.16
ORP (mv/Eh):	-67.9	-96.7	-99.2

REASON FOR SAMPLING:	<u>Groundwater Monitoring Event</u>
OTHER (Specify):	<u></u>
METHOD OF SHIPMENT:	<u>Hand Courier</u>
PHYSICAL APPEARANCE:	<u></u>
TYPE OF ANALYSES:	<u>VOC 8260</u>
CONTAINER SIZE, TYPE & NO.:	<u>3 x 40-ml amber vov vials</u>
PRESERVATIVE:	<u>HCl; ice</u>

REMARKS

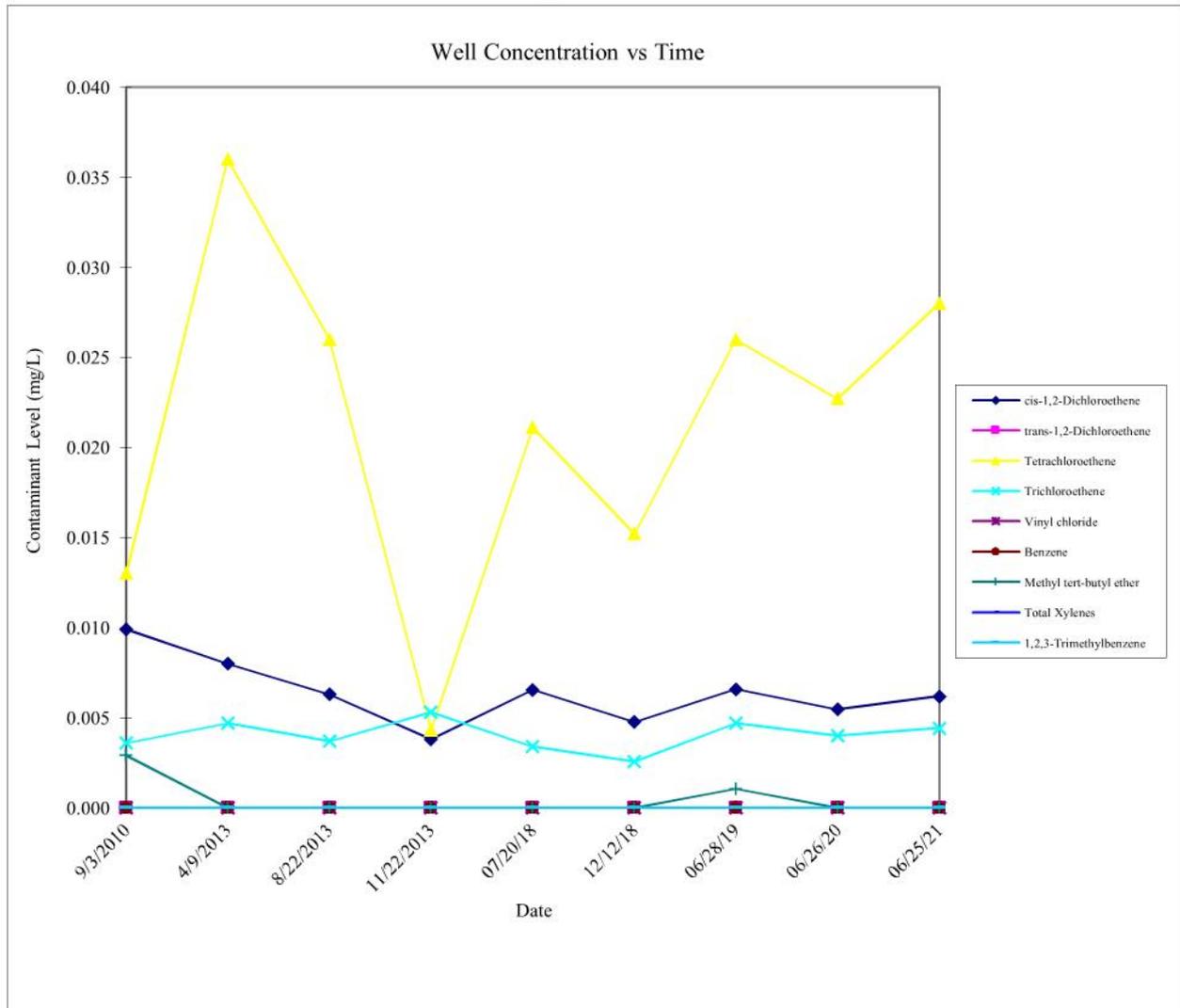
<u>NA - Not Applicable</u>
<u>V - Well Volumes</u>
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APPENDIX B

GROUNDWATER CONCENTRATION DATA

Facility Name: Aladdin Cleaners Montclair									
Facility I. D. No.:		DERTF No.: 462-9350							
Section 14 - Monitoring Well Concentration Data [Current Event, Previous 5 Events, & Initial Event]									
Well No:	MW-1								
Date	9/3/2010	4/9/2013	8/22/2013	11/22/2013	07/20/18	12/12/18	06/28/19	06/26/20	06/25/21
cis-1,2-Dichloroethene	0.0099	0.008	0.0063	0.0038	0.00655	0.00477	0.00658	0.00547	0.00618
trans-1,2-Dichloroethene	--	--	--	--	--	--	--	--	--
Tetrachloroethene	0.013	0.036	0.026	0.0043	0.0211	0.0152	0.0260	0.0227	0.0280
Trichloroethene	0.0036	0.0047	0.0037	0.0053	0.0034	0.00257	0.00470	0.00399	0.00442
Vinyl chloride	--	--	--	--	--	--	--	--	--
Benzene	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether	0.0029	--	--	--	--	--	0.00104	--	--
Total Xylenes	--	--	--	--	--	--	--	--	--
1,2,3-Trimethylbenzene	--	--	--	--	--	--	--	--	--

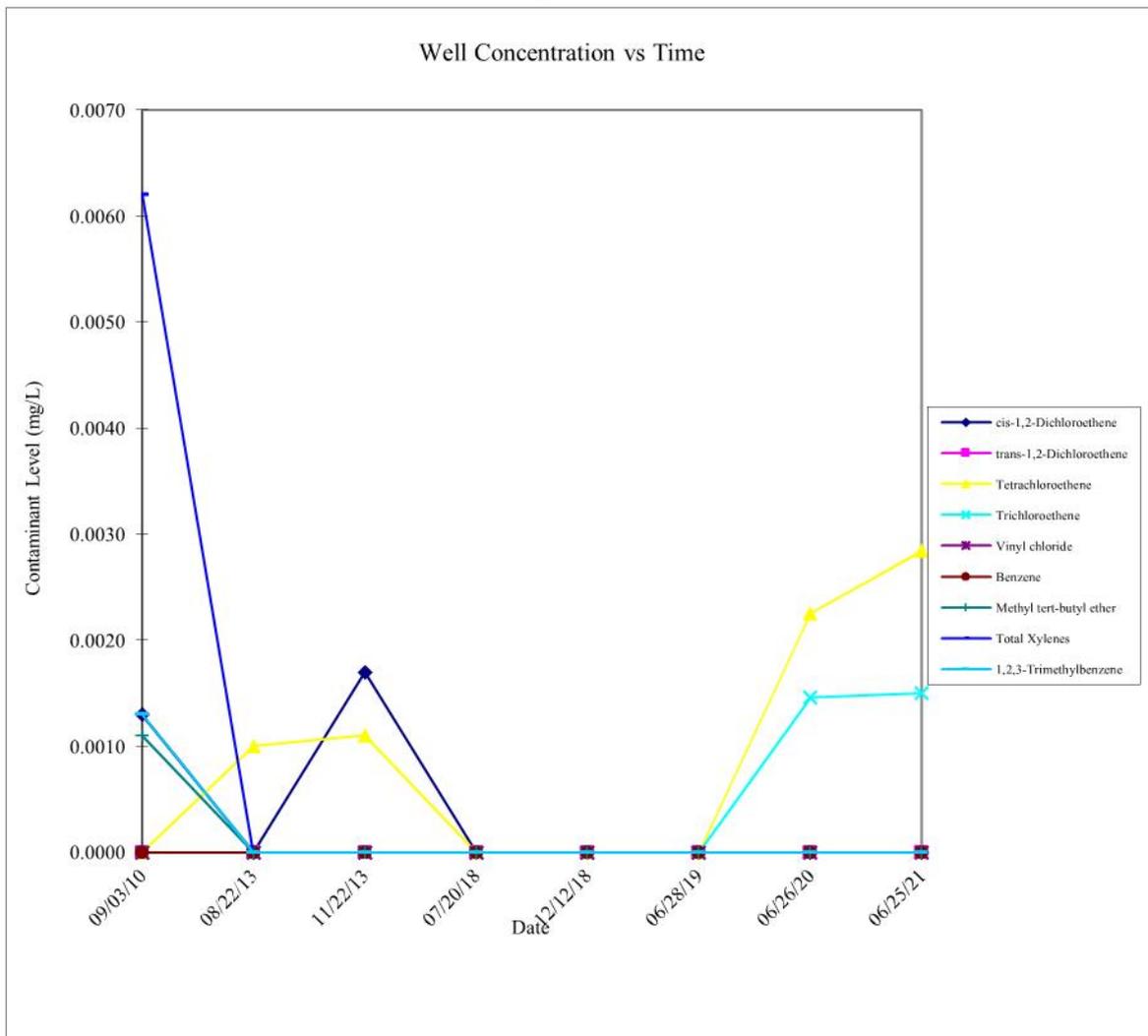
MW-1



GROUNDWATER CONCENTRATION DATA

Facility Name: Aladdin Cleaners Montclair									
Facility I. D. No.:		DERTF No.: 462-9350							
Section 14 - Monitoring Well Concentration Data [Current Event, Previous 6 Events, & Initial Event]									
Well No:	MW-2								
Date	09/03/10	08/22/13	11/22/13	07/20/18	12/12/18	06/28/19	06/26/20	06/25/21	
cis-1,2-Dichloroethene	0.0013	--	0.0017	0.001	--	--	--	--	
trans-1,2-Dichloroethene	--	--	--	--	--	--	--	--	
Tetrachloroethene	--	0.001	0.0011	--	--	0.00197	0.00225	0.00284	
Trichloroethene	--	--	--	--	--	0.00144	0.00146	0.00150	
Vinyl chloride	--	--	--	--	--	--	--	--	
Benzene	--	--	--	--	--	--	--	--	
Methyl tert-butyl ether	0.0011	--	--	--	--	--	--	--	
Total Xylenes	0.0062	--	--	--	--	--	--	--	
1,2,3-Trimethylbenzene	0.0013	--	--	--	--	--	--	--	

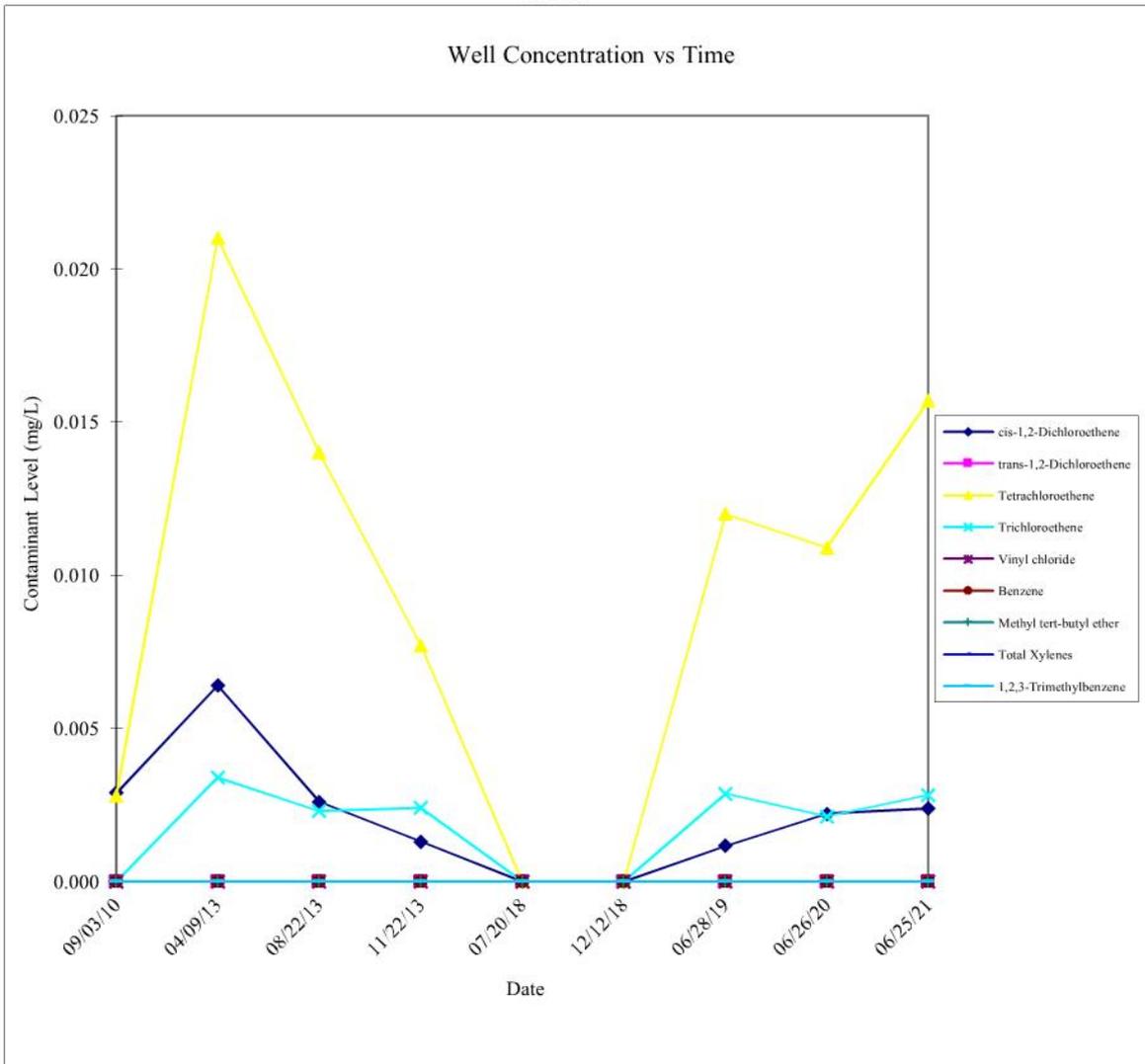
MW-2



GROUNDWATER CONCENTRATION DATA

Facility Name: Aladdin Cleaners Montclair									
Facility I. D. No.:							DERTF No.: 462-9350		
Section 14 - Monitoring Well Concentration Data [Current Event, Previous 6 Events, & Initial Event]									
Well No:	MW-3								
Date	09/03/10	04/09/13	08/22/13	11/22/13	07/20/18	12/12/18	06/28/19	06/26/20	06/25/21
cis-1,2-Dichloroethene	0.0029	0.0064	0.0026	0.0013	0.00173	0.00132	0.00117	0.00221	0.00238
trans-1,2-Dichloroethene	--	--	--	--	--	--	--	--	--
Tetrachloroethene	0.0028	0.021	0.014	0.0077	0.0104	0.00989	0.0120	0.0109	0.0157
Trichloroethene	--	0.0034	0.0023	0.0024	0.00242	0.00225	0.00286	0.00212	0.00282
Vinyl chloride	--	--	--	--	--	--	--	--	--
Benzene	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether	--	--	--	--	--	--	--	--	--
Total Xylenes	--	--	--	--	--	--	--	--	--
1,2,3-Trimethylbenzene	--	--	--	--	--	--	--	--	--

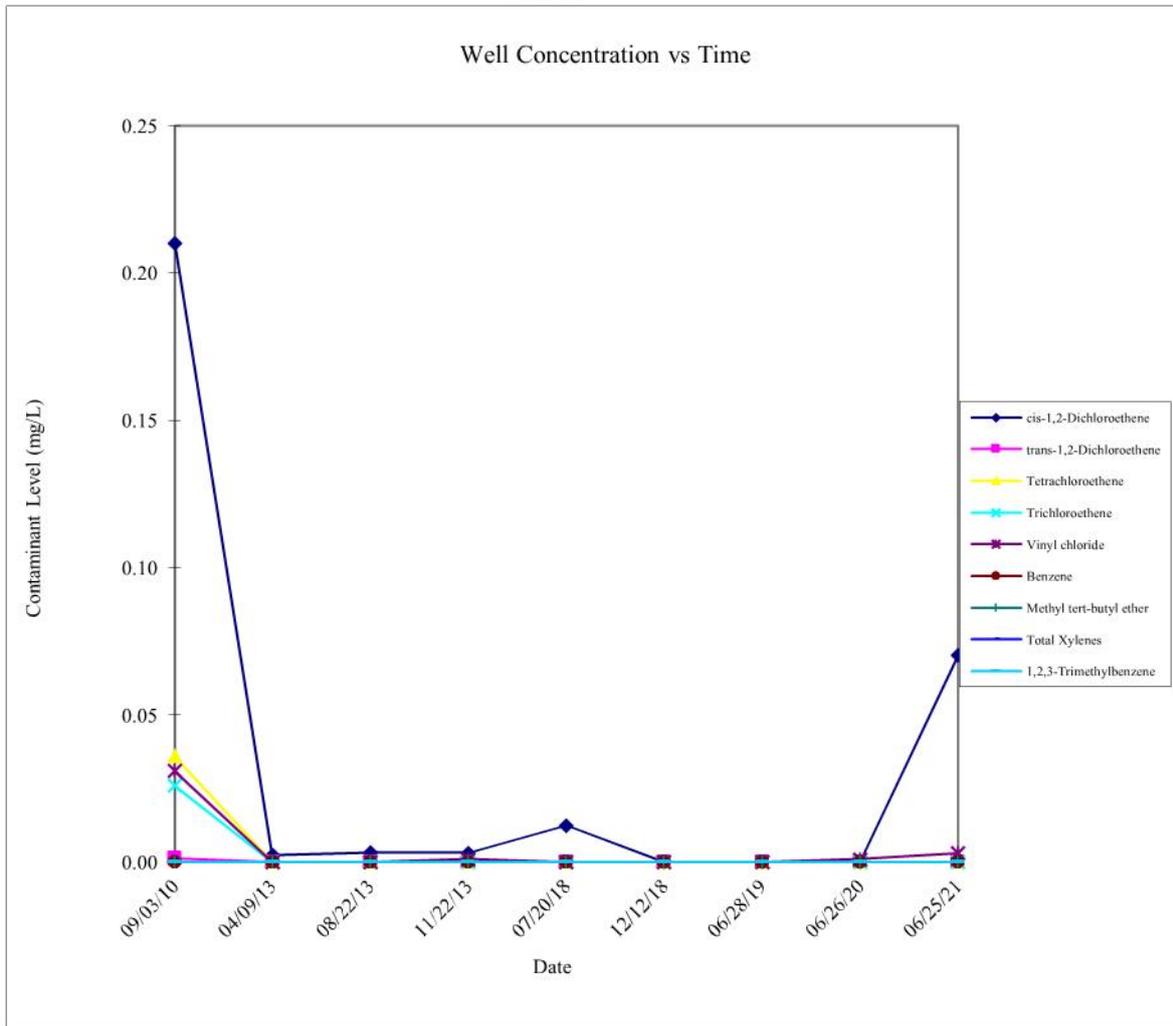
MW-3



GROUNDWATER CONCENTRATION DATA

Facility Name: Aladdin Cleaners Montclair									
Facility I. D. No.:		DERTF No.: 462-9350							
Section 14 - Monitoring Well Concentration Data [Current Event, Previous 6 Events, & Initial Event]									
Well No:	MW-4								
Date	09/03/10	04/09/13	08/22/13	11/22/13	07/20/18	12/12/18	06/28/19	06/26/20	06/25/21
cis-1,2-Dichloroethene	0.21	0.0024	0.0033	0.0032	0.0125	0.0107	0.0413	0.0408	0.0702
trans-1,2-Dichloroethene	0.0013	--	--	--	--	--	--	--	--
Tetrachloroethene	0.036	--	--	--	--	--	--	--	--
Trichloroethene	0.026	--	--	--	--	--	--	--	--
Vinyl chloride	0.031	--	--	0.001	--	0.00114	0.00112	0.00105	0.00306
Benzene	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether	--	--	--	--	--	--	--	--	--
Total Xylenes	--	--	--	--	--	--	--	--	--
1,2,3-Trimethylbenzene	--	--	--	--	--	--	--	--	--

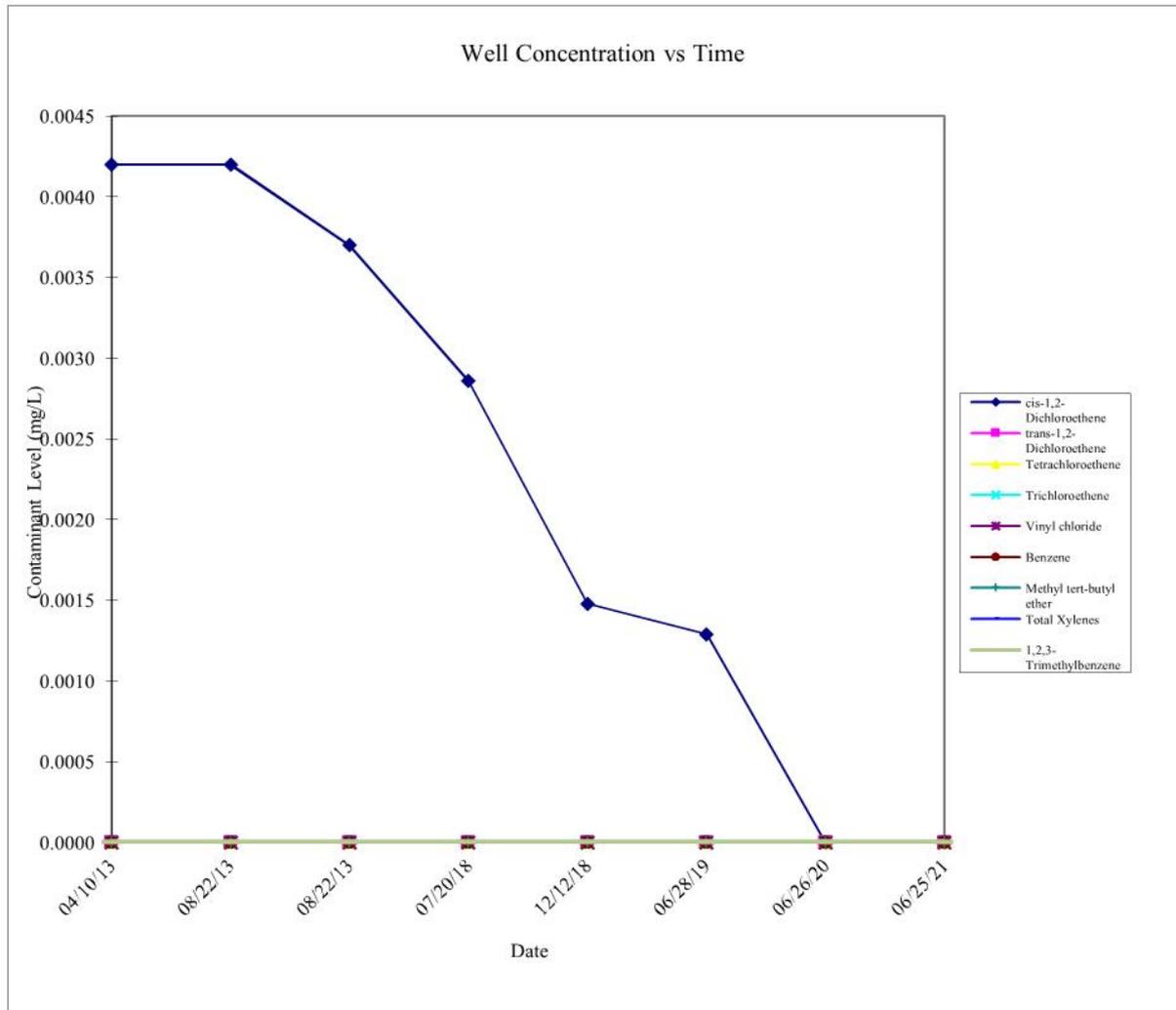
MW-4



GROUNDWATER CONCENTRATION DATA

Facility Name: Aladdin Cleaners Montclair									
Facility I. D. No.:		DERTF No.: 462-9350							
Section 14 - Monitoring Well Concentration Data [Current Event, Previous 5 Events, & Initial Event]									
Well No:	MW-5								
Date	04/10/13	08/22/13	08/22/13	07/20/18	12/12/18	06/28/19	06/26/20	06/25/21	
cis-1,2-Dichloroethene	0.0042	0.0042	0.0037	0.00286	0.00148	0.00129	--	--	
trans-1,2-Dichloroethene	--	--	--	--	--	--	--	--	
Tetrachloroethene	--	--	--	--	--	--	--	--	
Trichloroethene	--	--	--	--	--	--	--	--	
Vinyl chloride	--	--	--	--	--	--	--	--	
Benzene	--	--	--	--	--	--	--	--	
Methyl tert-butyl ether	--	--	--	--	--	--	--	--	
Total Xylenes	--	--	--	--	--	--	--	--	
1,2,3-Trimethylbenzene	--	--	--	--	--	--	--	--	

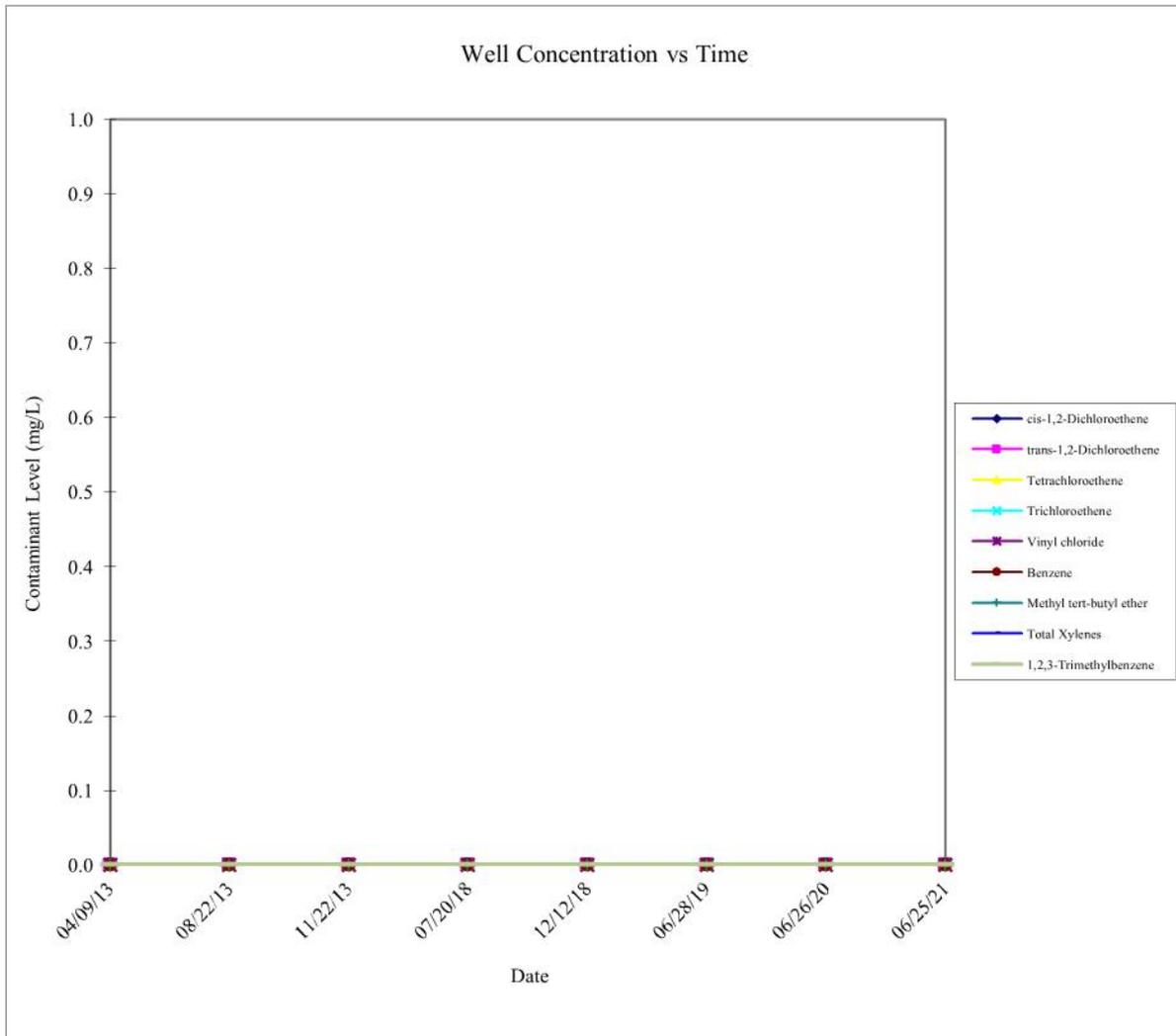
MW-5



GROUNDWATER CONCENTRATION DATA

Facility Name: Aladdin Cleaners Montclair									
Facility I. D. No.:		DERTF No.: 462-9350							
Section 14 - Monitoring Well Concentration Data [Current Event, Previous 5 Events, & Initial Event]									
Well No:	MW-6								
Date	04/09/13	08/22/13	11/22/13	07/20/18	12/12/18	06/28/19	06/26/20	06/25/21	
cis-1,2-Dichloroethene	--	--	--	--	--	--	--	--	
trans-1,2-Dichloroethene	--	--	--	--	--	--	--	--	
Tetrachloroethene	--	--	--	--	--	--	--	--	
Trichloroethene	--	--	--	--	--	--	--	--	
Vinyl chloride	--	--	--	--	--	--	--	--	
Benzene	--	--	--	--	--	--	--	--	
Methyl tert-butyl ether	--	--	--	--	--	--	--	--	
Total Xylenes	--	--	--	--	--	--	--	--	
1,2,3-Trimethylbenzene	--	--	--	--	--	--	--	--	

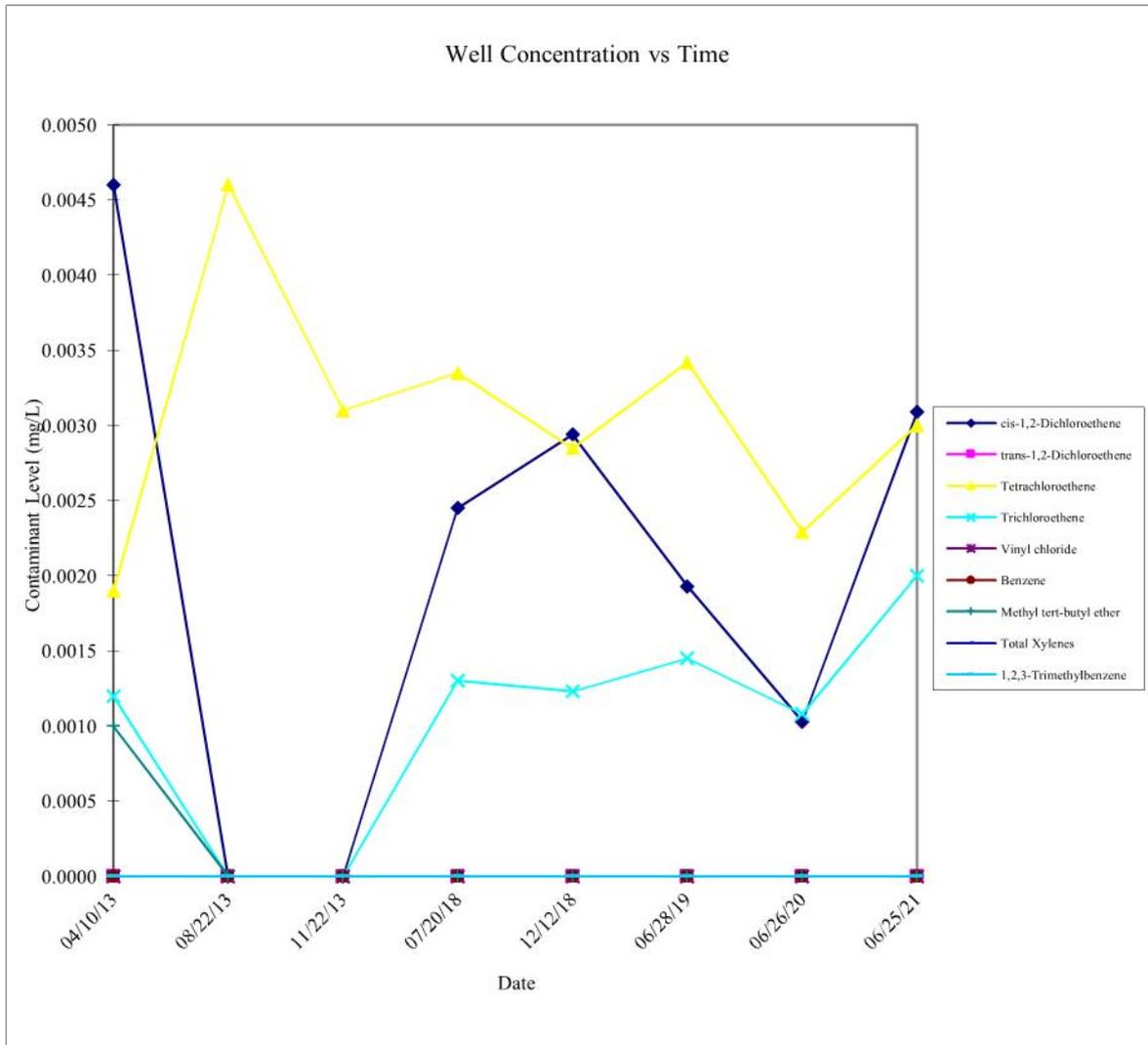
MW-6



GROUNDWATER CONCENTRATION DATA

Facility Name: Aladdin Cleaners Montclair									
Facility I. D. No.:		DERTF No.: 462-9350							
Section 14 - Monitoring Well Concentration Data [Current Event, Previous 5 Events, & Initial Event]									
Well No:	MW-8								
Date	04/10/13	08/22/13	11/22/13	07/20/18	12/12/18	06/28/19	06/26/20	06/25/21	
cis-1,2-Dichloroethene	0.0046	--	--	0.00245	0.00294	0.00193	0.00103	0.00309	
trans-1,2-Dichloroethene	--	--	--	--	--	--	--	--	
Tetrachloroethene	0.0019	0.0046	0.0031	0.00335	0.00285	0.00342	0.00229	0.003	
Trichloroethene	0.0012	--	--	0.0013	0.00123	0.00145	0.00108	0.002	
Vinyl chloride	--	--	--	--	--	--	--	--	
Benzene	--	--	--	--	--	--	--	--	
Methyl tert-butyl ether	0.001	--	--	--	--	--	--	--	
Total Xylenes	--	--	--	--	--	--	--	--	
1,2,3-Trimethylbenzene	--	--	--	--	--	--	--	--	

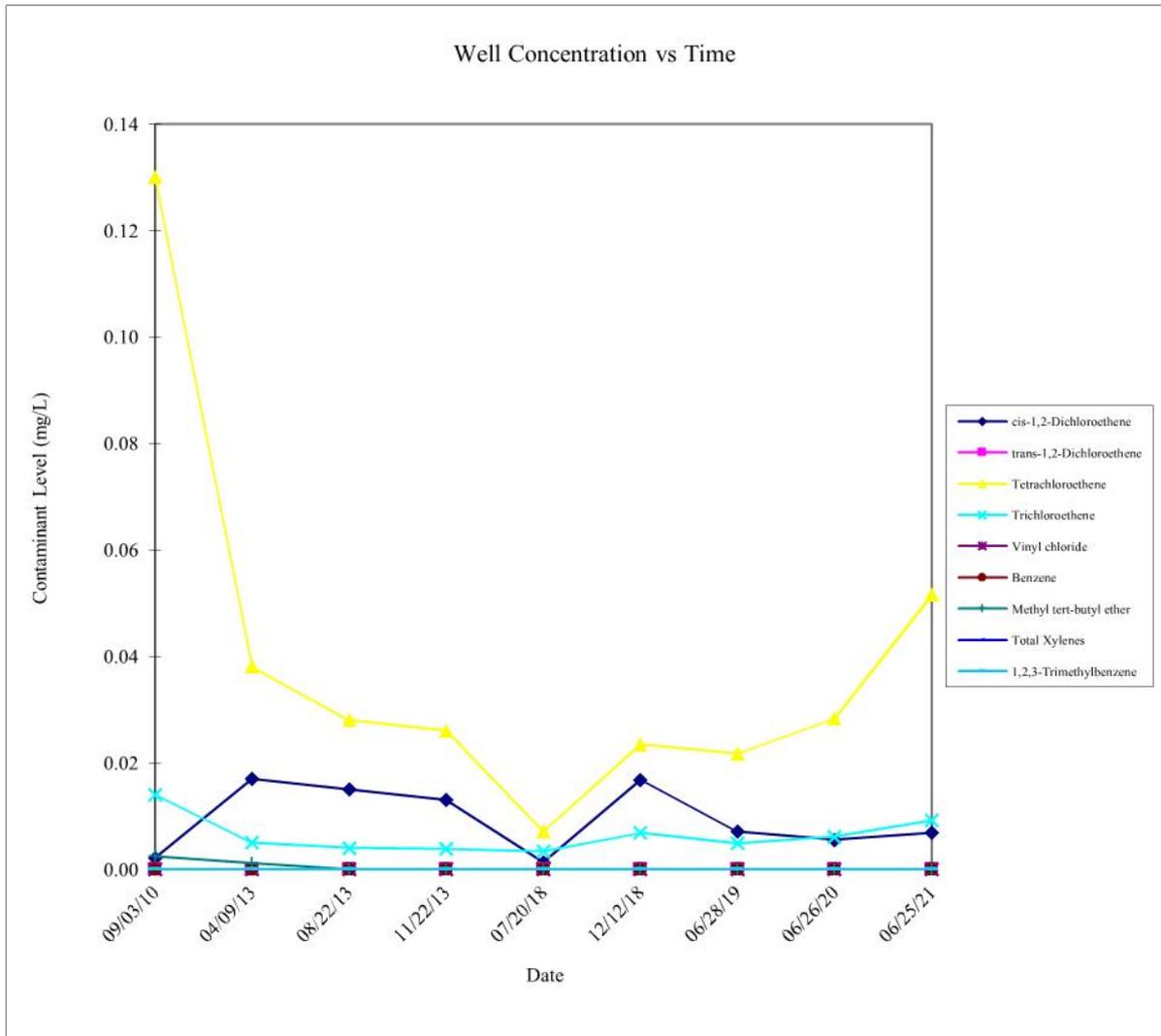
MW-8



GROUNDWATER CONCENTRATION DATA

Facility Name: Aladdin Cleaners Montclair									
Facility I. D. No.:		DERTF No.: 462-9350							
Section 14 - Monitoring Well Concentration Data [Current Event, Previous 5 Events, & Initial Event]									
Well No:	DW-1								
Date	09/03/10	04/09/13	08/22/13	11/22/13	07/20/18	12/12/18	06/28/19	06/26/20	06/25/21
cis-1,2-Dichloroethene	0.0021	0.0170	0.015	0.013	0.00132	0.0168	0.00705	0.00552	0.00686
trans-1,2-Dichloroethene	--	--	--	--	--	--	--	--	--
Tetrachloroethene	0.13	0.038	0.028	0.026	0.0071	0.02	0.0217	0.0283	0.0515
Trichloroethene	0.014	0.005	0.004	0.0038	0.00333	0.0068	0.00484	0.00608	0.00918
Vinyl chloride	--	--	--	--	--	--	--	--	--
Benzene	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether	0.0025	0.0011	--	--	--	--	--	--	--
Total Xylenes	--	--	--	--	--	--	--	--	--
1,2,3-Trimethylbenzene	--	--	--	--	--	--	--	--	--

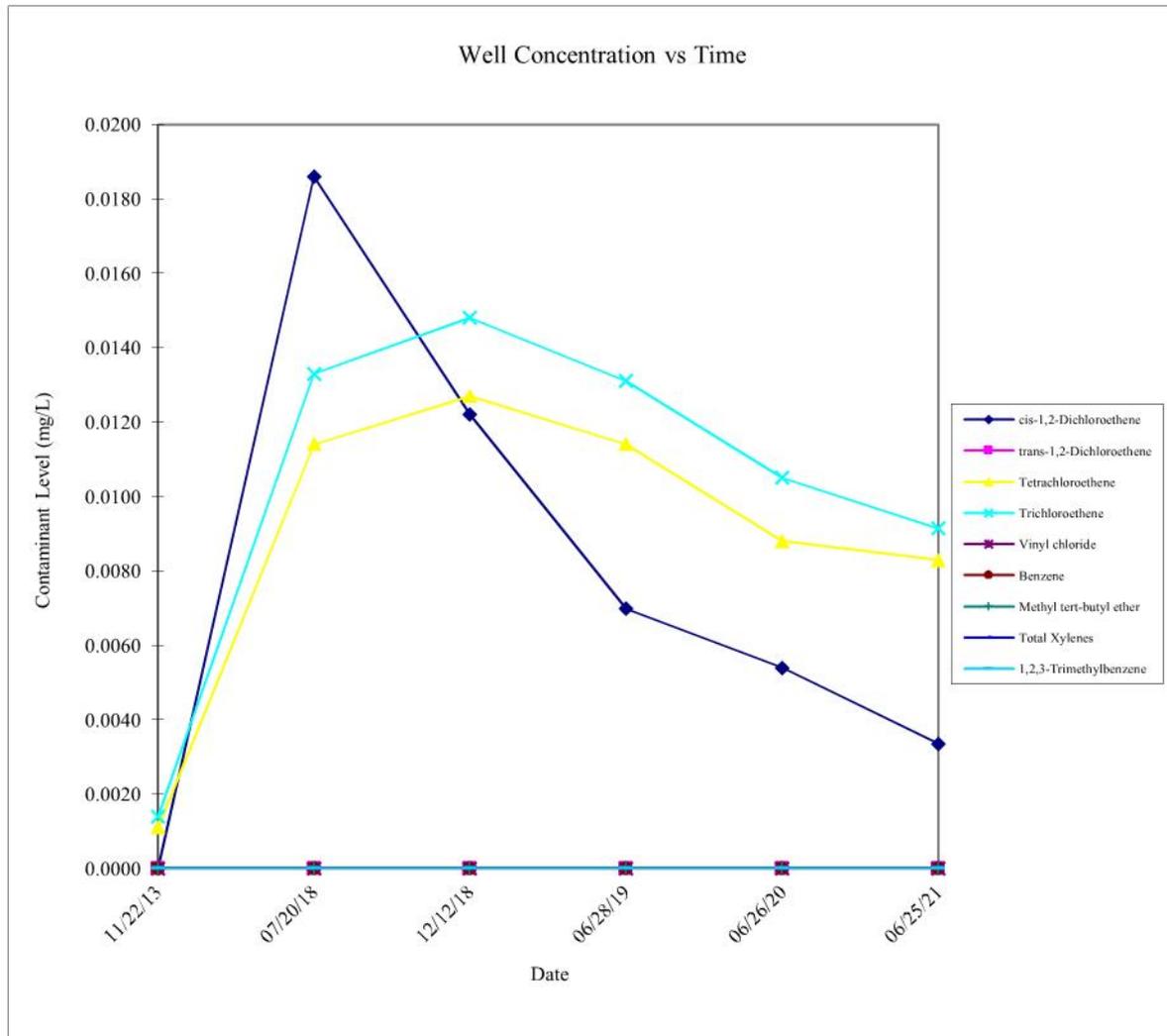
DW-1



GROUNDWATER CONCENTRATION DATA

Facility Name: Aladdin Cleaners Montclair							
Facility I. D. No.:		DERTF No.: 462-9350					
Section 14 - Monitoring Well Concentration Data [Current Event, Previous 5 Events, & Initial Event]							
Well No:	DW-2						
Date	11/22/13	07/20/18	12/12/18	06/28/19	06/26/20	06/25/21	
cis-1,2-Dichloroethene	--	0.0186	0.0122	0.00698	0.00539	0.00335	
trans-1,2-Dichloroethene	--	--	--	--	--	--	
Tetrachloroethene	0.0011	0.0114	0.0127	0.0114	0.00879	0.00828	
Trichloroethene	0.0014	0.0133	0.0148	0.0131	0.0105	0.00914	
Vinyl chloride	--	--	--	--	--	--	
Benzene	--	--	--	--	--	--	
Methyl tert-butyl ether	--	--	--	--	--	--	
Total Xylenes	--	--	--	--	--	--	
1,2,3-Trimethylbenzene	--	--	--	--	--	--	

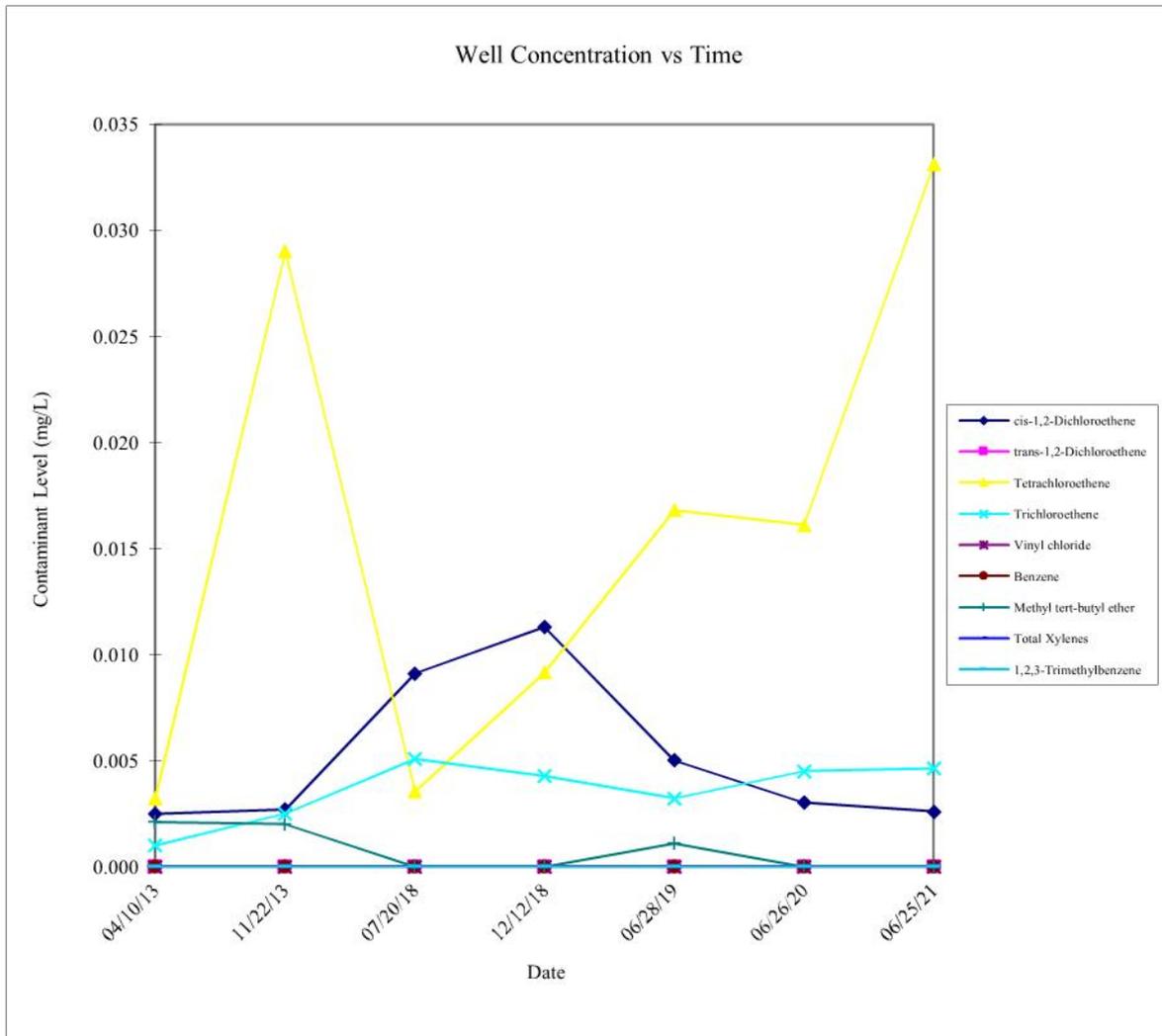
DW-2



GROUNDWATER CONCENTRATION DATA

Facility Name: Aladdin Cleaners Montclair								
Facility I. D. No.:		DERTF No.: 462-9350						
Section 14 - Monitoring Well Concentration Data [Current Event, Previous 5 Events, & Initial Event]								
Well No:	DW-3							
Date	04/10/13	11/22/13	07/20/18	12/12/18	06/28/19	06/26/20	06/25/21	
cis-1,2-Dichloroethene	0.0025	0.0027	0.0091	0.0113	0.00502	0.00303	0.00260	
trans-1,2-Dichloroethene	--	--	--	--	--	--	--	
Tetrachloroethene	0.0032	0.029	0.00354	0.00915	0.0168	0.0161	0.0331	
Trichloroethene	0.001	0.003	0.00508	0.00427	0.00322	0.00450	0.00463	
Vinyl chloride	--	--	--	--	--	--	--	
Benzene	--	--	--	--	--	--	--	
Methyl tert-butyl ether	0.0021	0.0020	--	--	0.00109	--	--	
Total Xylenes	--	--	--	--	--	--	--	
1,2,3-Trimethylbenzene	--	--	--	--	--	--	--	

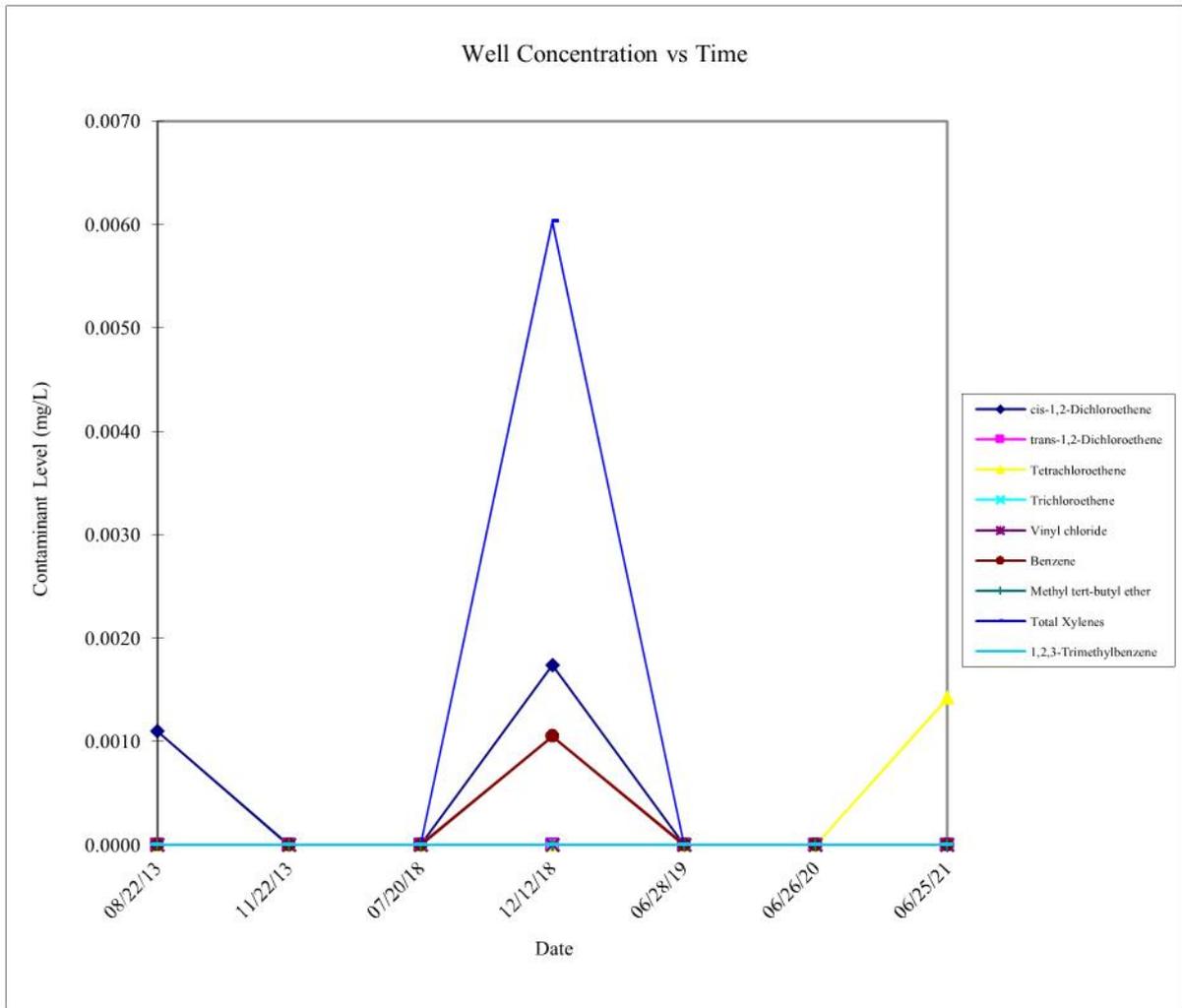
DW-3



GROUNDWATER CONCENTRATION DATA

Facility Name: Aladdin Cleaners Montclair									
Facility I. D. No.:		DERTF No.: 462-9350							
Section 14 - Monitoring Well Concentration Data [Current Event, Previous 5 Events, & Initial Event]									
Well No:	DW-4								
Date	08/22/13	11/22/13	07/20/18	12/12/18	06/28/19	06/26/20	06/25/21		
cis-1,2-Dichloroethene	0.0011	--	--	0.00174	--	--	--		
trans-1,2-Dichloroethene	--	--	--	--	--	--	--		
Tetrachloroethene	--	--	--	--	--	--	0.00142		
Trichloroethene	--	--	--	--	--	--	--		
Vinyl chloride	--	--	--	--	--	--	--		
Benzene	--	--	--	0.00105	--	--	--		
Methyl tert-butyl ether	--	--	--	--	--	--	--		
Total Xylenes	--	--	--	0.00603	--	--	--		
1,2,3-Trimethylbenzene	--	--	--	--	--	--	--		

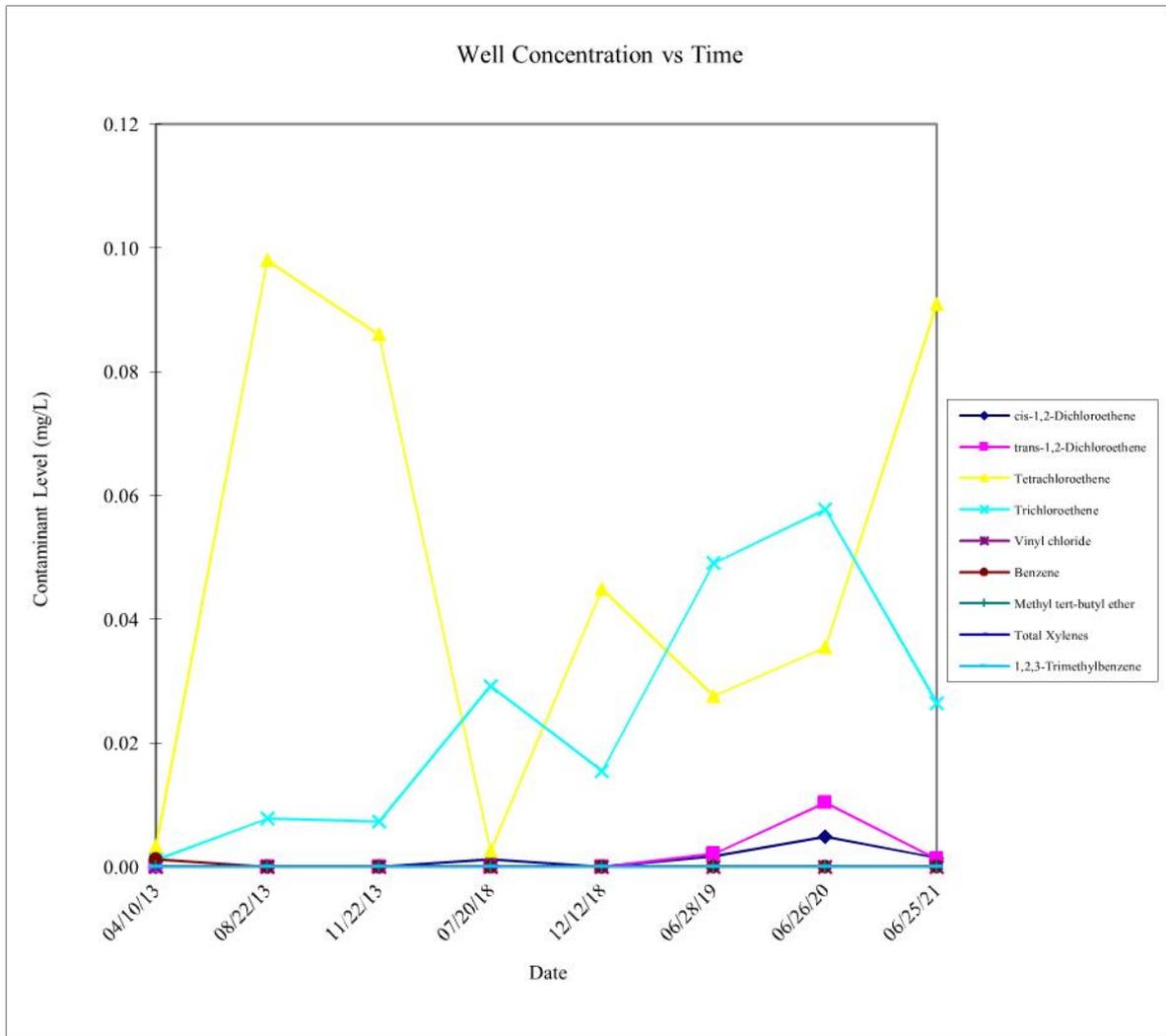
DW-4



GROUNDWATER CONCENTRATION DATA

Facility Name: Aladdin Cleaners Montclair									
Facility I. D. No.:		DERTF No.: 462-9350							
Section 14 - Monitoring Well Concentration Data [Current Event, Previous 5 Events, & Initial Event]									
Well No:	DW-1-D								
Date	04/10/13	08/22/13	11/22/13	07/20/18	12/12/18	06/28/19	06/26/20	06/25/21	
cis-1,2-Dichloroethene	--	--	--	0.00115	--	0.00173	0.00491	0.00147	
trans-1,2-Dichloroethene	--	--	--	--	--	0.00213	0.0104	0.00129	
Tetrachloroethene	0.0033	0.098	0.086	0.00256	0.04	0.0276	0.0355	0.0909	
Trichloroethene	0.0011	0.0078	0.0073	0.0292	0.0155	0.0491	0.0578	0.0265	
Vinyl chloride	--	--	--	--	--	--	--	--	
Benzene	0.0012	--	--	--	--	--	--	--	
Methyl tert-butyl ether	--	--	--	--	--	--	--	--	
Total Xylenes	--	--	--	--	--	--	--	--	
1,2,3-Trimethylbenzene	--	--	--	--	--	--	--	--	

DW-1-D



APPENDIX C

Terracon - B-Ham, AL

Sample Delivery Group: L1371546
Samples Received: 06/26/2021
Project Number: E1217009
Description: Aladdin Cleaners - Montclair CP#11

Report To: Meghan DiGiorgio
2147 Riverchase Office Road
Birmingham, AL 35244

Entire Report Reviewed By:



Heather J Wagner
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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SAMPLE SUMMARY

MW-1 L1371546-01 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
			Collected by M Digorgio	Collected date/time 06/25/21 07:20	Received date/time 06/26/21 09:30	
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1697902	1	07/01/21 10:16	07/01/21 10:16	JHH	Mt. Juliet, TN

MW-2 L1371546-02 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
			Collected by M Digorgio	Collected date/time 06/25/21 08:45	Received date/time 06/26/21 09:30	
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1697902	1	07/01/21 10:36	07/01/21 10:36	JHH	Mt. Juliet, TN

MW-3 L1371546-03 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
			Collected by M Digorgio	Collected date/time 06/25/21 07:00	Received date/time 06/26/21 09:30	
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1697902	1	07/01/21 10:57	07/01/21 10:57	JHH	Mt. Juliet, TN

MW-4 L1371546-04 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
			Collected by M Digorgio	Collected date/time 06/25/21 08:12	Received date/time 06/26/21 09:30	
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1697902	1	07/01/21 11:17	07/01/21 11:17	JHH	Mt. Juliet, TN

MW-5 L1371546-05 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
			Collected by M Digorgio	Collected date/time 06/25/21 07:50	Received date/time 06/26/21 09:30	
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1697902	1	07/01/21 11:36	07/01/21 11:36	JHH	Mt. Juliet, TN

MW-6 L1371546-06 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
			Collected by M Digorgio	Collected date/time 06/25/21 08:30	Received date/time 06/26/21 09:30	
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1697902	1	07/01/21 11:56	07/01/21 11:56	JHH	Mt. Juliet, TN

MW-8 L1371546-07 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
			Collected by M Digorgio	Collected date/time 06/25/21 08:49	Received date/time 06/26/21 09:30	
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1697902	1	07/01/21 12:16	07/01/21 12:16	JHH	Mt. Juliet, TN

DW-1 L1371546-08 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
			Collected by M Digorgio	Collected date/time 06/25/21 07:45	Received date/time 06/26/21 09:30	
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1697902	1	07/01/21 12:36	07/01/21 12:36	JHH	Mt. Juliet, TN



SAMPLE SUMMARY

DW-1D L1371546-09 GW

Collected by M Digiorgio Collected date/time 06/25/21 07:15 Received date/time 06/26/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1697902	1	07/01/21 12:56	07/01/21 12:56	JHH	Mt. Juliet, TN

DW-2 L1371546-10 GW

Collected by M Digiorgio Collected date/time 06/25/21 08:15 Received date/time 06/26/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1697902	1	07/01/21 13:16	07/01/21 13:16	JHH	Mt. Juliet, TN

DW-3 L1371546-11 GW

Collected by M Digiorgio Collected date/time 06/25/21 09:18 Received date/time 06/26/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1697902	1	07/01/21 13:36	07/01/21 13:36	JHH	Mt. Juliet, TN

DW-4 L1371546-12 GW

Collected by M Digiorgio Collected date/time 06/25/21 10:05 Received date/time 06/26/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1697902	1	07/01/21 13:56	07/01/21 13:56	JHH	Mt. Juliet, TN

DRUM L1371546-13 GW

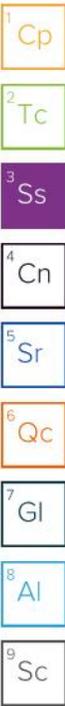
Collected by M Digiorgio Collected date/time 06/25/21 10:45 Received date/time 06/26/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1697902	1	07/01/21 14:16	07/01/21 14:16	JHH	Mt. Juliet, TN

DUPLICATE L1371546-14 GW

Collected by M Digiorgio Collected date/time 06/25/21 00:00 Received date/time 06/26/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1697902	1	07/01/21 14:37	07/01/21 14:37	JHH	Mt. Juliet, TN



CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Heather J Wagner
Project Manager

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Acetone	ND		0.0500	1	07/01/2021 10:16	WG1697902
Acrolein	ND		0.0500	1	07/01/2021 10:16	WG1697902
Acrylonitrile	ND		0.0100	1	07/01/2021 10:16	WG1697902
Benzene	ND		0.00100	1	07/01/2021 10:16	WG1697902
Bromobenzene	ND		0.00100	1	07/01/2021 10:16	WG1697902
Bromodichloromethane	ND		0.00100	1	07/01/2021 10:16	WG1697902
Bromoform	ND		0.00100	1	07/01/2021 10:16	WG1697902
Bromomethane	ND		0.00500	1	07/01/2021 10:16	WG1697902
n-Butylbenzene	ND		0.00100	1	07/01/2021 10:16	WG1697902
sec-Butylbenzene	ND		0.00100	1	07/01/2021 10:16	WG1697902
tert-Butylbenzene	ND		0.00100	1	07/01/2021 10:16	WG1697902
Carbon tetrachloride	ND		0.00100	1	07/01/2021 10:16	WG1697902
Chlorobenzene	ND		0.00100	1	07/01/2021 10:16	WG1697902
Chlorodibromomethane	ND		0.00100	1	07/01/2021 10:16	WG1697902
Chloroethane	ND		0.00500	1	07/01/2021 10:16	WG1697902
Chloroform	ND		0.00500	1	07/01/2021 10:16	WG1697902
Chloromethane	ND		0.00250	1	07/01/2021 10:16	WG1697902
2-Chlorotoluene	ND		0.00100	1	07/01/2021 10:16	WG1697902
4-Chlorotoluene	ND		0.00100	1	07/01/2021 10:16	WG1697902
1,2-Dibromo-3-Chloropropane	ND		0.00500	1	07/01/2021 10:16	WG1697902
1,2-Dibromoethane	ND		0.00100	1	07/01/2021 10:16	WG1697902
Dibromomethane	ND		0.00100	1	07/01/2021 10:16	WG1697902
1,2-Dichlorobenzene	ND		0.00100	1	07/01/2021 10:16	WG1697902
1,3-Dichlorobenzene	ND		0.00100	1	07/01/2021 10:16	WG1697902
1,4-Dichlorobenzene	ND		0.00100	1	07/01/2021 10:16	WG1697902
Dichlorodifluoromethane	ND		0.00500	1	07/01/2021 10:16	WG1697902
1,1-Dichloroethane	ND		0.00100	1	07/01/2021 10:16	WG1697902
1,2-Dichloroethane	ND		0.00100	1	07/01/2021 10:16	WG1697902
1,1-Dichloroethene	ND		0.00100	1	07/01/2021 10:16	WG1697902
cis-1,2-Dichloroethene	0.00618		0.00100	1	07/01/2021 10:16	WG1697902
trans-1,2-Dichloroethene	ND		0.00100	1	07/01/2021 10:16	WG1697902
1,2-Dichloropropane	ND		0.00100	1	07/01/2021 10:16	WG1697902
1,1-Dichloropropene	ND		0.00100	1	07/01/2021 10:16	WG1697902
1,3-Dichloropropane	ND		0.00100	1	07/01/2021 10:16	WG1697902
cis-1,3-Dichloropropene	ND		0.00100	1	07/01/2021 10:16	WG1697902
trans-1,3-Dichloropropene	ND		0.00100	1	07/01/2021 10:16	WG1697902
2,2-Dichloropropane	ND		0.00100	1	07/01/2021 10:16	WG1697902
Di-isopropyl ether	ND		0.00100	1	07/01/2021 10:16	WG1697902
Ethylbenzene	ND		0.00100	1	07/01/2021 10:16	WG1697902
Hexachloro-1,3-butadiene	ND		0.00100	1	07/01/2021 10:16	WG1697902
Isopropylbenzene	ND		0.00100	1	07/01/2021 10:16	WG1697902
p-Isopropyltoluene	ND		0.00100	1	07/01/2021 10:16	WG1697902
2-Butanone (MEK)	ND		0.0100	1	07/01/2021 10:16	WG1697902
Methylene Chloride	ND		0.00500	1	07/01/2021 10:16	WG1697902
4-Methyl-2-pentanone (MIBK)	ND		0.0100	1	07/01/2021 10:16	WG1697902
Methyl tert-butyl ether	ND		0.00100	1	07/01/2021 10:16	WG1697902
Naphthalene	ND		0.00500	1	07/01/2021 10:16	WG1697902
n-Propylbenzene	ND		0.00100	1	07/01/2021 10:16	WG1697902
Styrene	ND		0.00100	1	07/01/2021 10:16	WG1697902
1,1,1,2-Tetrachloroethane	ND		0.00100	1	07/01/2021 10:16	WG1697902
1,1,2,2-Tetrachloroethane	ND		0.00100	1	07/01/2021 10:16	WG1697902
1,1,2-Trichlorotrifluoroethane	ND		0.00100	1	07/01/2021 10:16	WG1697902
Tetrachloroethene	0.0282		0.00100	1	07/01/2021 10:16	WG1697902
Toluene	ND		0.00100	1	07/01/2021 10:16	WG1697902
1,2,3-Trichlorobenzene	ND		0.00100	1	07/01/2021 10:16	WG1697902
1,2,4-Trichlorobenzene	ND		0.00100	1	07/01/2021 10:16	WG1697902

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		0.00100	1	07/01/2021 10:16	WG1697902
1,1,2-Trichloroethane	ND		0.00100	1	07/01/2021 10:16	WG1697902
Trichloroethene	0.00458		0.00100	1	07/01/2021 10:16	WG1697902
Trichlorofluoromethane	ND		0.00500	1	07/01/2021 10:16	WG1697902
1,2,3-Trichloropropane	ND		0.00250	1	07/01/2021 10:16	WG1697902
1,2,4-Trimethylbenzene	ND		0.00100	1	07/01/2021 10:16	WG1697902
1,2,3-Trimethylbenzene	ND		0.00100	1	07/01/2021 10:16	WG1697902
1,3,5-Trimethylbenzene	ND		0.00100	1	07/01/2021 10:16	WG1697902
Vinyl chloride	ND		0.00100	1	07/01/2021 10:16	WG1697902
Xylenes, Total	ND		0.00300	1	07/01/2021 10:16	WG1697902
(S) Toluene-d8	104		80.0-120		07/01/2021 10:16	WG1697902
(S) 4-Bromofluorobenzene	101		77.0-126		07/01/2021 10:16	WG1697902
(S) 1,2-Dichloroethane-d4	99.9		70.0-130		07/01/2021 10:16	WG1697902

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	ND		0.0500	1	07/01/2021 10:36	WG1697902
Acrolein	ND		0.0500	1	07/01/2021 10:36	WG1697902
Acrylonitrile	ND		0.0100	1	07/01/2021 10:36	WG1697902
Benzene	ND		0.00100	1	07/01/2021 10:36	WG1697902
Bromobenzene	ND		0.00100	1	07/01/2021 10:36	WG1697902
Bromodichloromethane	ND		0.00100	1	07/01/2021 10:36	WG1697902
Bromoform	ND		0.00100	1	07/01/2021 10:36	WG1697902
Bromomethane	ND		0.00500	1	07/01/2021 10:36	WG1697902
n-Butylbenzene	ND		0.00100	1	07/01/2021 10:36	WG1697902
sec-Butylbenzene	ND		0.00100	1	07/01/2021 10:36	WG1697902
tert-Butylbenzene	ND		0.00100	1	07/01/2021 10:36	WG1697902
Carbon tetrachloride	ND		0.00100	1	07/01/2021 10:36	WG1697902
Chlorobenzene	ND		0.00100	1	07/01/2021 10:36	WG1697902
Chlorodibromomethane	ND		0.00100	1	07/01/2021 10:36	WG1697902
Chloroethane	ND		0.00500	1	07/01/2021 10:36	WG1697902
Chloroform	ND		0.00500	1	07/01/2021 10:36	WG1697902
Chloromethane	ND		0.00250	1	07/01/2021 10:36	WG1697902
2-Chlorotoluene	ND		0.00100	1	07/01/2021 10:36	WG1697902
4-Chlorotoluene	ND		0.00100	1	07/01/2021 10:36	WG1697902
1,2-Dibromo-3-Chloropropane	ND		0.00500	1	07/01/2021 10:36	WG1697902
1,2-Dibromoethane	ND		0.00100	1	07/01/2021 10:36	WG1697902
Dibromomethane	ND		0.00100	1	07/01/2021 10:36	WG1697902
1,2-Dichlorobenzene	ND		0.00100	1	07/01/2021 10:36	WG1697902
1,3-Dichlorobenzene	ND		0.00100	1	07/01/2021 10:36	WG1697902
1,4-Dichlorobenzene	ND		0.00100	1	07/01/2021 10:36	WG1697902
Dichlorodifluoromethane	ND		0.00500	1	07/01/2021 10:36	WG1697902
1,1-Dichloroethane	ND		0.00100	1	07/01/2021 10:36	WG1697902
1,2-Dichloroethane	ND		0.00100	1	07/01/2021 10:36	WG1697902
1,1-Dichloroethene	ND		0.00100	1	07/01/2021 10:36	WG1697902
cis-1,2-Dichloroethene	ND		0.00100	1	07/01/2021 10:36	WG1697902
trans-1,2-Dichloroethene	ND		0.00100	1	07/01/2021 10:36	WG1697902
1,2-Dichloropropane	ND		0.00100	1	07/01/2021 10:36	WG1697902
1,1-Dichloropropene	ND		0.00100	1	07/01/2021 10:36	WG1697902
1,3-Dichloropropane	ND		0.00100	1	07/01/2021 10:36	WG1697902
cis-1,3-Dichloropropene	ND		0.00100	1	07/01/2021 10:36	WG1697902
trans-1,3-Dichloropropene	ND		0.00100	1	07/01/2021 10:36	WG1697902
2,2-Dichloropropane	ND		0.00100	1	07/01/2021 10:36	WG1697902
Di-isopropyl ether	ND		0.00100	1	07/01/2021 10:36	WG1697902
Ethylbenzene	ND		0.00100	1	07/01/2021 10:36	WG1697902
Hexachloro-1,3-butadiene	ND		0.00100	1	07/01/2021 10:36	WG1697902
Isopropylbenzene	ND		0.00100	1	07/01/2021 10:36	WG1697902
p-Isopropyltoluene	ND		0.00100	1	07/01/2021 10:36	WG1697902
2-Butanone (MEK)	ND		0.0100	1	07/01/2021 10:36	WG1697902
Methylene Chloride	ND		0.00500	1	07/01/2021 10:36	WG1697902
4-Methyl-2-pentanone (MIBK)	ND		0.0100	1	07/01/2021 10:36	WG1697902
Methyl tert-butyl ether	ND		0.00100	1	07/01/2021 10:36	WG1697902
Naphthalene	ND		0.00500	1	07/01/2021 10:36	WG1697902
n-Propylbenzene	ND		0.00100	1	07/01/2021 10:36	WG1697902
Styrene	ND		0.00100	1	07/01/2021 10:36	WG1697902
1,1,1,2-Tetrachloroethane	ND		0.00100	1	07/01/2021 10:36	WG1697902
1,1,2,2-Tetrachloroethane	ND		0.00100	1	07/01/2021 10:36	WG1697902
1,1,2-Trichlorotrifluoroethane	ND		0.00100	1	07/01/2021 10:36	WG1697902
Tetrachloroethene	0.00284		0.00100	1	07/01/2021 10:36	WG1697902
Toluene	ND		0.00100	1	07/01/2021 10:36	WG1697902
1,2,3-Trichlorobenzene	ND		0.00100	1	07/01/2021 10:36	WG1697902
1,2,4-Trichlorobenzene	ND		0.00100	1	07/01/2021 10:36	WG1697902

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		0.00100	1	07/01/2021 10:36	WG1697902
1,1,2-Trichloroethane	ND		0.00100	1	07/01/2021 10:36	WG1697902
Trichloroethene	0.00150		0.00100	1	07/01/2021 10:36	WG1697902
Trichlorofluoromethane	ND		0.00500	1	07/01/2021 10:36	WG1697902
1,2,3-Trichloropropane	ND		0.00250	1	07/01/2021 10:36	WG1697902
1,2,4-Trimethylbenzene	ND		0.00100	1	07/01/2021 10:36	WG1697902
1,2,3-Trimethylbenzene	ND		0.00100	1	07/01/2021 10:36	WG1697902
1,3,5-Trimethylbenzene	ND		0.00100	1	07/01/2021 10:36	WG1697902
Vinyl chloride	ND		0.00100	1	07/01/2021 10:36	WG1697902
Xylenes, Total	ND		0.00300	1	07/01/2021 10:36	WG1697902
(S) Toluene-d8	104		80.0-120		07/01/2021 10:36	WG1697902
(S) 4-Bromofluorobenzene	99.5		77.0-126		07/01/2021 10:36	WG1697902
(S) 1,2-Dichloroethane-d4	101		70.0-130		07/01/2021 10:36	WG1697902

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Acetone	ND		0.0500	1	07/01/2021 10:57	WG1697902
Acrolein	ND		0.0500	1	07/01/2021 10:57	WG1697902
Acrylonitrile	ND		0.0100	1	07/01/2021 10:57	WG1697902
Benzene	ND		0.00100	1	07/01/2021 10:57	WG1697902
Bromobenzene	ND		0.00100	1	07/01/2021 10:57	WG1697902
Bromodichloromethane	ND		0.00100	1	07/01/2021 10:57	WG1697902
Bromoform	ND		0.00100	1	07/01/2021 10:57	WG1697902
Bromomethane	ND		0.00500	1	07/01/2021 10:57	WG1697902
n-Butylbenzene	ND		0.00100	1	07/01/2021 10:57	WG1697902
sec-Butylbenzene	ND		0.00100	1	07/01/2021 10:57	WG1697902
tert-Butylbenzene	ND		0.00100	1	07/01/2021 10:57	WG1697902
Carbon tetrachloride	ND		0.00100	1	07/01/2021 10:57	WG1697902
Chlorobenzene	ND		0.00100	1	07/01/2021 10:57	WG1697902
Chlorodibromomethane	ND		0.00100	1	07/01/2021 10:57	WG1697902
Chloroethane	ND		0.00500	1	07/01/2021 10:57	WG1697902
Chloroform	ND		0.00500	1	07/01/2021 10:57	WG1697902
Chloromethane	ND		0.00250	1	07/01/2021 10:57	WG1697902
2-Chlorotoluene	ND		0.00100	1	07/01/2021 10:57	WG1697902
4-Chlorotoluene	ND		0.00100	1	07/01/2021 10:57	WG1697902
1,2-Dibromo-3-Chloropropane	ND		0.00500	1	07/01/2021 10:57	WG1697902
1,2-Dibromoethane	ND		0.00100	1	07/01/2021 10:57	WG1697902
Dibromomethane	ND		0.00100	1	07/01/2021 10:57	WG1697902
1,2-Dichlorobenzene	ND		0.00100	1	07/01/2021 10:57	WG1697902
1,3-Dichlorobenzene	ND		0.00100	1	07/01/2021 10:57	WG1697902
1,4-Dichlorobenzene	ND		0.00100	1	07/01/2021 10:57	WG1697902
Dichlorodifluoromethane	ND		0.00500	1	07/01/2021 10:57	WG1697902
1,1-Dichloroethane	ND		0.00100	1	07/01/2021 10:57	WG1697902
1,2-Dichloroethane	ND		0.00100	1	07/01/2021 10:57	WG1697902
1,1-Dichloroethene	ND		0.00100	1	07/01/2021 10:57	WG1697902
cis-1,2-Dichloroethene	0.00238		0.00100	1	07/01/2021 10:57	WG1697902
trans-1,2-Dichloroethene	ND		0.00100	1	07/01/2021 10:57	WG1697902
1,2-Dichloropropane	ND		0.00100	1	07/01/2021 10:57	WG1697902
1,1-Dichloropropene	ND		0.00100	1	07/01/2021 10:57	WG1697902
1,3-Dichloropropane	ND		0.00100	1	07/01/2021 10:57	WG1697902
cis-1,3-Dichloropropene	ND		0.00100	1	07/01/2021 10:57	WG1697902
trans-1,3-Dichloropropene	ND		0.00100	1	07/01/2021 10:57	WG1697902
2,2-Dichloropropane	ND		0.00100	1	07/01/2021 10:57	WG1697902
Di-isopropyl ether	ND		0.00100	1	07/01/2021 10:57	WG1697902
Ethylbenzene	ND		0.00100	1	07/01/2021 10:57	WG1697902
Hexachloro-1,3-butadiene	ND		0.00100	1	07/01/2021 10:57	WG1697902
Isopropylbenzene	ND		0.00100	1	07/01/2021 10:57	WG1697902
p-Isopropyltoluene	ND		0.00100	1	07/01/2021 10:57	WG1697902
2-Butanone (MEK)	ND		0.0100	1	07/01/2021 10:57	WG1697902
Methylene Chloride	ND		0.00500	1	07/01/2021 10:57	WG1697902
4-Methyl-2-pentanone (MIBK)	ND		0.0100	1	07/01/2021 10:57	WG1697902
Methyl tert-butyl ether	ND		0.00100	1	07/01/2021 10:57	WG1697902
Naphthalene	ND		0.00500	1	07/01/2021 10:57	WG1697902
n-Propylbenzene	ND		0.00100	1	07/01/2021 10:57	WG1697902
Styrene	ND		0.00100	1	07/01/2021 10:57	WG1697902
1,1,1,2-Tetrachloroethane	ND		0.00100	1	07/01/2021 10:57	WG1697902
1,1,2,2-Tetrachloroethane	ND		0.00100	1	07/01/2021 10:57	WG1697902
1,1,2-Trichlorotrifluoroethane	ND		0.00100	1	07/01/2021 10:57	WG1697902
Tetrachloroethene	0.0157		0.00100	1	07/01/2021 10:57	WG1697902
Toluene	ND		0.00100	1	07/01/2021 10:57	WG1697902
1,2,3-Trichlorobenzene	ND		0.00100	1	07/01/2021 10:57	WG1697902
1,2,4-Trichlorobenzene	ND		0.00100	1	07/01/2021 10:57	WG1697902



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		0.00100	1	07/01/2021 10:57	WG1697902
1,1,2-Trichloroethane	ND		0.00100	1	07/01/2021 10:57	WG1697902
Trichloroethene	0.00282		0.00100	1	07/01/2021 10:57	WG1697902
Trichlorofluoromethane	ND		0.00500	1	07/01/2021 10:57	WG1697902
1,2,3-Trichloropropane	ND		0.00250	1	07/01/2021 10:57	WG1697902
1,2,4-Trimethylbenzene	ND		0.00100	1	07/01/2021 10:57	WG1697902
1,2,3-Trimethylbenzene	ND		0.00100	1	07/01/2021 10:57	WG1697902
1,3,5-Trimethylbenzene	ND		0.00100	1	07/01/2021 10:57	WG1697902
Vinyl chloride	ND		0.00100	1	07/01/2021 10:57	WG1697902
Xylenes, Total	ND		0.00300	1	07/01/2021 10:57	WG1697902
(S) Toluene-d8	104		80.0-120		07/01/2021 10:57	WG1697902
(S) 4-Bromofluorobenzene	99.4		77.0-126		07/01/2021 10:57	WG1697902
(S) 1,2-Dichloroethane-d4	100		70.0-130		07/01/2021 10:57	WG1697902

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Acetone	ND		0.0500	1	07/01/2021 11:17	WG1697902
Acrolein	ND		0.0500	1	07/01/2021 11:17	WG1697902
Acrylonitrile	ND		0.0100	1	07/01/2021 11:17	WG1697902
Benzene	ND		0.00100	1	07/01/2021 11:17	WG1697902
Bromobenzene	ND		0.00100	1	07/01/2021 11:17	WG1697902
Bromodichloromethane	ND		0.00100	1	07/01/2021 11:17	WG1697902
Bromoform	ND		0.00100	1	07/01/2021 11:17	WG1697902
Bromomethane	ND		0.00500	1	07/01/2021 11:17	WG1697902
n-Butylbenzene	ND		0.00100	1	07/01/2021 11:17	WG1697902
sec-Butylbenzene	ND		0.00100	1	07/01/2021 11:17	WG1697902
tert-Butylbenzene	ND		0.00100	1	07/01/2021 11:17	WG1697902
Carbon tetrachloride	ND		0.00100	1	07/01/2021 11:17	WG1697902
Chlorobenzene	ND		0.00100	1	07/01/2021 11:17	WG1697902
Chlorodibromomethane	ND		0.00100	1	07/01/2021 11:17	WG1697902
Chloroethane	ND		0.00500	1	07/01/2021 11:17	WG1697902
Chloroform	ND		0.00500	1	07/01/2021 11:17	WG1697902
Chloromethane	ND		0.00250	1	07/01/2021 11:17	WG1697902
2-Chlorotoluene	ND		0.00100	1	07/01/2021 11:17	WG1697902
4-Chlorotoluene	ND		0.00100	1	07/01/2021 11:17	WG1697902
1,2-Dibromo-3-Chloropropane	ND		0.00500	1	07/01/2021 11:17	WG1697902
1,2-Dibromoethane	ND		0.00100	1	07/01/2021 11:17	WG1697902
Dibromomethane	ND		0.00100	1	07/01/2021 11:17	WG1697902
1,2-Dichlorobenzene	ND		0.00100	1	07/01/2021 11:17	WG1697902
1,3-Dichlorobenzene	ND		0.00100	1	07/01/2021 11:17	WG1697902
1,4-Dichlorobenzene	ND		0.00100	1	07/01/2021 11:17	WG1697902
Dichlorodifluoromethane	ND		0.00500	1	07/01/2021 11:17	WG1697902
1,1-Dichloroethane	ND		0.00100	1	07/01/2021 11:17	WG1697902
1,2-Dichloroethane	ND		0.00100	1	07/01/2021 11:17	WG1697902
1,1-Dichloroethene	ND		0.00100	1	07/01/2021 11:17	WG1697902
cis-1,2-Dichloroethene	0.0702		0.00100	1	07/01/2021 11:17	WG1697902
trans-1,2-Dichloroethene	ND		0.00100	1	07/01/2021 11:17	WG1697902
1,2-Dichloropropane	ND		0.00100	1	07/01/2021 11:17	WG1697902
1,1-Dichloropropene	ND		0.00100	1	07/01/2021 11:17	WG1697902
1,3-Dichloropropane	ND		0.00100	1	07/01/2021 11:17	WG1697902
cis-1,3-Dichloropropene	ND		0.00100	1	07/01/2021 11:17	WG1697902
trans-1,3-Dichloropropene	ND		0.00100	1	07/01/2021 11:17	WG1697902
2,2-Dichloropropane	ND		0.00100	1	07/01/2021 11:17	WG1697902
Di-isopropyl ether	ND		0.00100	1	07/01/2021 11:17	WG1697902
Ethylbenzene	ND		0.00100	1	07/01/2021 11:17	WG1697902
Hexachloro-1,3-butadiene	ND		0.00100	1	07/01/2021 11:17	WG1697902
Isopropylbenzene	ND		0.00100	1	07/01/2021 11:17	WG1697902
p-Isopropyltoluene	ND		0.00100	1	07/01/2021 11:17	WG1697902
2-Butanone (MEK)	ND		0.0100	1	07/01/2021 11:17	WG1697902
Methylene Chloride	ND		0.00500	1	07/01/2021 11:17	WG1697902
4-Methyl-2-pentanone (MIBK)	ND		0.0100	1	07/01/2021 11:17	WG1697902
Methyl tert-butyl ether	ND		0.00100	1	07/01/2021 11:17	WG1697902
Naphthalene	ND		0.00500	1	07/01/2021 11:17	WG1697902
n-Propylbenzene	ND		0.00100	1	07/01/2021 11:17	WG1697902
Styrene	ND		0.00100	1	07/01/2021 11:17	WG1697902
1,1,1,2-Tetrachloroethane	ND		0.00100	1	07/01/2021 11:17	WG1697902
1,1,2,2-Tetrachloroethane	ND		0.00100	1	07/01/2021 11:17	WG1697902
1,1,2-Trichlorotrifluoroethane	ND		0.00100	1	07/01/2021 11:17	WG1697902
Tetrachloroethene	ND		0.00100	1	07/01/2021 11:17	WG1697902
Toluene	ND		0.00100	1	07/01/2021 11:17	WG1697902
1,2,3-Trichlorobenzene	ND		0.00100	1	07/01/2021 11:17	WG1697902
1,2,4-Trichlorobenzene	ND		0.00100	1	07/01/2021 11:17	WG1697902

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		0.00100	1	07/01/2021 11:17	WG1697902
1,1,2-Trichloroethane	ND		0.00100	1	07/01/2021 11:17	WG1697902
Trichloroethene	ND		0.00100	1	07/01/2021 11:17	WG1697902
Trichlorofluoromethane	ND		0.00500	1	07/01/2021 11:17	WG1697902
1,2,3-Trichloropropane	ND		0.00250	1	07/01/2021 11:17	WG1697902
1,2,4-Trimethylbenzene	ND		0.00100	1	07/01/2021 11:17	WG1697902
1,2,3-Trimethylbenzene	ND		0.00100	1	07/01/2021 11:17	WG1697902
1,3,5-Trimethylbenzene	ND		0.00100	1	07/01/2021 11:17	WG1697902
Vinyl chloride	0.00306		0.00100	1	07/01/2021 11:17	WG1697902
Xylenes, Total	ND		0.00300	1	07/01/2021 11:17	WG1697902
<i>(S) Toluene-d8</i>	105		80.0-120		07/01/2021 11:17	WG1697902
<i>(S) 4-Bromofluorobenzene</i>	101		77.0-126		07/01/2021 11:17	WG1697902
<i>(S) 1,2-Dichloroethane-d4</i>	101		70.0-130		07/01/2021 11:17	WG1697902

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Acetone	ND		0.0500	1	07/01/2021 11:36	WG1697902
Acrolein	ND		0.0500	1	07/01/2021 11:36	WG1697902
Acrylonitrile	ND		0.0100	1	07/01/2021 11:36	WG1697902
Benzene	ND		0.00100	1	07/01/2021 11:36	WG1697902
Bromobenzene	ND		0.00100	1	07/01/2021 11:36	WG1697902
Bromodichloromethane	ND		0.00100	1	07/01/2021 11:36	WG1697902
Bromoform	ND		0.00100	1	07/01/2021 11:36	WG1697902
Bromomethane	ND		0.00500	1	07/01/2021 11:36	WG1697902
n-Butylbenzene	ND		0.00100	1	07/01/2021 11:36	WG1697902
sec-Butylbenzene	ND		0.00100	1	07/01/2021 11:36	WG1697902
tert-Butylbenzene	ND		0.00100	1	07/01/2021 11:36	WG1697902
Carbon tetrachloride	ND		0.00100	1	07/01/2021 11:36	WG1697902
Chlorobenzene	ND		0.00100	1	07/01/2021 11:36	WG1697902
Chlorodibromomethane	ND		0.00100	1	07/01/2021 11:36	WG1697902
Chloroethane	ND		0.00500	1	07/01/2021 11:36	WG1697902
Chloroform	ND		0.00500	1	07/01/2021 11:36	WG1697902
Chloromethane	ND		0.00250	1	07/01/2021 11:36	WG1697902
2-Chlorotoluene	ND		0.00100	1	07/01/2021 11:36	WG1697902
4-Chlorotoluene	ND		0.00100	1	07/01/2021 11:36	WG1697902
1,2-Dibromo-3-Chloropropane	ND		0.00500	1	07/01/2021 11:36	WG1697902
1,2-Dibromoethane	ND		0.00100	1	07/01/2021 11:36	WG1697902
Dibromomethane	ND		0.00100	1	07/01/2021 11:36	WG1697902
1,2-Dichlorobenzene	ND		0.00100	1	07/01/2021 11:36	WG1697902
1,3-Dichlorobenzene	ND		0.00100	1	07/01/2021 11:36	WG1697902
1,4-Dichlorobenzene	ND		0.00100	1	07/01/2021 11:36	WG1697902
Dichlorodifluoromethane	ND		0.00500	1	07/01/2021 11:36	WG1697902
1,1-Dichloroethane	ND		0.00100	1	07/01/2021 11:36	WG1697902
1,2-Dichloroethane	ND		0.00100	1	07/01/2021 11:36	WG1697902
1,1-Dichloroethene	ND		0.00100	1	07/01/2021 11:36	WG1697902
cis-1,2-Dichloroethene	ND		0.00100	1	07/01/2021 11:36	WG1697902
trans-1,2-Dichloroethene	ND		0.00100	1	07/01/2021 11:36	WG1697902
1,2-Dichloropropane	ND		0.00100	1	07/01/2021 11:36	WG1697902
1,1-Dichloropropene	ND		0.00100	1	07/01/2021 11:36	WG1697902
1,3-Dichloropropane	ND		0.00100	1	07/01/2021 11:36	WG1697902
cis-1,3-Dichloropropene	ND		0.00100	1	07/01/2021 11:36	WG1697902
trans-1,3-Dichloropropene	ND		0.00100	1	07/01/2021 11:36	WG1697902
2,2-Dichloropropane	ND		0.00100	1	07/01/2021 11:36	WG1697902
Di-isopropyl ether	ND		0.00100	1	07/01/2021 11:36	WG1697902
Ethylbenzene	ND		0.00100	1	07/01/2021 11:36	WG1697902
Hexachloro-1,3-butadiene	ND		0.00100	1	07/01/2021 11:36	WG1697902
Isopropylbenzene	ND		0.00100	1	07/01/2021 11:36	WG1697902
p-Isopropyltoluene	ND		0.00100	1	07/01/2021 11:36	WG1697902
2-Butanone (MEK)	ND		0.0100	1	07/01/2021 11:36	WG1697902
Methylene Chloride	ND		0.00500	1	07/01/2021 11:36	WG1697902
4-Methyl-2-pentanone (MIBK)	ND		0.0100	1	07/01/2021 11:36	WG1697902
Methyl tert-butyl ether	ND		0.00100	1	07/01/2021 11:36	WG1697902
Naphthalene	ND		0.00500	1	07/01/2021 11:36	WG1697902
n-Propylbenzene	ND		0.00100	1	07/01/2021 11:36	WG1697902
Styrene	ND		0.00100	1	07/01/2021 11:36	WG1697902
1,1,1,2-Tetrachloroethane	ND		0.00100	1	07/01/2021 11:36	WG1697902
1,1,2,2-Tetrachloroethane	ND		0.00100	1	07/01/2021 11:36	WG1697902
1,1,2-Trichlorotrifluoroethane	ND		0.00100	1	07/01/2021 11:36	WG1697902
Tetrachloroethene	ND		0.00100	1	07/01/2021 11:36	WG1697902
Toluene	ND		0.00100	1	07/01/2021 11:36	WG1697902
1,2,3-Trichlorobenzene	ND		0.00100	1	07/01/2021 11:36	WG1697902
1,2,4-Trichlorobenzene	ND		0.00100	1	07/01/2021 11:36	WG1697902

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		0.00100	1	07/01/2021 11:36	WG1697902
1,1,2-Trichloroethane	ND		0.00100	1	07/01/2021 11:36	WG1697902
Trichloroethene	ND		0.00100	1	07/01/2021 11:36	WG1697902
Trichlorofluoromethane	ND		0.00500	1	07/01/2021 11:36	WG1697902
1,2,3-Trichloropropane	ND		0.00250	1	07/01/2021 11:36	WG1697902
1,2,4-Trimethylbenzene	ND		0.00100	1	07/01/2021 11:36	WG1697902
1,2,3-Trimethylbenzene	ND		0.00100	1	07/01/2021 11:36	WG1697902
1,3,5-Trimethylbenzene	ND		0.00100	1	07/01/2021 11:36	WG1697902
Vinyl chloride	ND		0.00100	1	07/01/2021 11:36	WG1697902
Xylenes, Total	ND		0.00300	1	07/01/2021 11:36	WG1697902
(S) Toluene-d8	105		80.0-120		07/01/2021 11:36	WG1697902
(S) 4-Bromofluorobenzene	96.7		77.0-126		07/01/2021 11:36	WG1697902
(S) 1,2-Dichloroethane-d4	101		70.0-130		07/01/2021 11:36	WG1697902

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Acetone	ND		0.0500	1	07/01/2021 11:56	WG1697902
Acrolein	ND		0.0500	1	07/01/2021 11:56	WG1697902
Acrylonitrile	ND		0.0100	1	07/01/2021 11:56	WG1697902
Benzene	ND		0.00100	1	07/01/2021 11:56	WG1697902
Bromobenzene	ND		0.00100	1	07/01/2021 11:56	WG1697902
Bromodichloromethane	ND		0.00100	1	07/01/2021 11:56	WG1697902
Bromoform	ND		0.00100	1	07/01/2021 11:56	WG1697902
Bromomethane	ND		0.00500	1	07/01/2021 11:56	WG1697902
n-Butylbenzene	ND		0.00100	1	07/01/2021 11:56	WG1697902
sec-Butylbenzene	ND		0.00100	1	07/01/2021 11:56	WG1697902
tert-Butylbenzene	ND		0.00100	1	07/01/2021 11:56	WG1697902
Carbon tetrachloride	ND		0.00100	1	07/01/2021 11:56	WG1697902
Chlorobenzene	ND		0.00100	1	07/01/2021 11:56	WG1697902
Chlorodibromomethane	ND		0.00100	1	07/01/2021 11:56	WG1697902
Chloroethane	ND		0.00500	1	07/01/2021 11:56	WG1697902
Chloroform	ND		0.00500	1	07/01/2021 11:56	WG1697902
Chloromethane	ND		0.00250	1	07/01/2021 11:56	WG1697902
2-Chlorotoluene	ND		0.00100	1	07/01/2021 11:56	WG1697902
4-Chlorotoluene	ND		0.00100	1	07/01/2021 11:56	WG1697902
1,2-Dibromo-3-Chloropropane	ND		0.00500	1	07/01/2021 11:56	WG1697902
1,2-Dibromoethane	ND		0.00100	1	07/01/2021 11:56	WG1697902
Dibromomethane	ND		0.00100	1	07/01/2021 11:56	WG1697902
1,2-Dichlorobenzene	ND		0.00100	1	07/01/2021 11:56	WG1697902
1,3-Dichlorobenzene	ND		0.00100	1	07/01/2021 11:56	WG1697902
1,4-Dichlorobenzene	ND		0.00100	1	07/01/2021 11:56	WG1697902
Dichlorodifluoromethane	ND		0.00500	1	07/01/2021 11:56	WG1697902
1,1-Dichloroethane	ND		0.00100	1	07/01/2021 11:56	WG1697902
1,2-Dichloroethane	ND		0.00100	1	07/01/2021 11:56	WG1697902
1,1-Dichloroethene	ND		0.00100	1	07/01/2021 11:56	WG1697902
cis-1,2-Dichloroethene	ND		0.00100	1	07/01/2021 11:56	WG1697902
trans-1,2-Dichloroethene	ND		0.00100	1	07/01/2021 11:56	WG1697902
1,2-Dichloropropane	ND		0.00100	1	07/01/2021 11:56	WG1697902
1,1-Dichloropropene	ND		0.00100	1	07/01/2021 11:56	WG1697902
1,3-Dichloropropane	ND		0.00100	1	07/01/2021 11:56	WG1697902
cis-1,3-Dichloropropene	ND		0.00100	1	07/01/2021 11:56	WG1697902
trans-1,3-Dichloropropene	ND		0.00100	1	07/01/2021 11:56	WG1697902
2,2-Dichloropropane	ND		0.00100	1	07/01/2021 11:56	WG1697902
Di-isopropyl ether	ND		0.00100	1	07/01/2021 11:56	WG1697902
Ethylbenzene	ND		0.00100	1	07/01/2021 11:56	WG1697902
Hexachloro-1,3-butadiene	ND		0.00100	1	07/01/2021 11:56	WG1697902
Isopropylbenzene	ND		0.00100	1	07/01/2021 11:56	WG1697902
p-Isopropyltoluene	ND		0.00100	1	07/01/2021 11:56	WG1697902
2-Butanone (MEK)	ND		0.0100	1	07/01/2021 11:56	WG1697902
Methylene Chloride	ND		0.00500	1	07/01/2021 11:56	WG1697902
4-Methyl-2-pentanone (MIBK)	ND		0.0100	1	07/01/2021 11:56	WG1697902
Methyl tert-butyl ether	ND		0.00100	1	07/01/2021 11:56	WG1697902
Naphthalene	ND		0.00500	1	07/01/2021 11:56	WG1697902
n-Propylbenzene	ND		0.00100	1	07/01/2021 11:56	WG1697902
Styrene	ND		0.00100	1	07/01/2021 11:56	WG1697902
1,1,1,2-Tetrachloroethane	ND		0.00100	1	07/01/2021 11:56	WG1697902
1,1,2,2-Tetrachloroethane	ND		0.00100	1	07/01/2021 11:56	WG1697902
1,1,2-Trichlorotrifluoroethane	ND		0.00100	1	07/01/2021 11:56	WG1697902
Tetrachloroethene	ND		0.00100	1	07/01/2021 11:56	WG1697902
Toluene	ND		0.00100	1	07/01/2021 11:56	WG1697902
1,2,3-Trichlorobenzene	ND		0.00100	1	07/01/2021 11:56	WG1697902
1,2,4-Trichlorobenzene	ND		0.00100	1	07/01/2021 11:56	WG1697902

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		0.00100	1	07/01/2021 11:56	WG1697902
1,1,2-Trichloroethane	ND		0.00100	1	07/01/2021 11:56	WG1697902
Trichloroethene	ND		0.00100	1	07/01/2021 11:56	WG1697902
Trichlorofluoromethane	ND		0.00500	1	07/01/2021 11:56	WG1697902
1,2,3-Trichloropropane	ND		0.00250	1	07/01/2021 11:56	WG1697902
1,2,4-Trimethylbenzene	ND		0.00100	1	07/01/2021 11:56	WG1697902
1,2,3-Trimethylbenzene	ND		0.00100	1	07/01/2021 11:56	WG1697902
1,3,5-Trimethylbenzene	ND		0.00100	1	07/01/2021 11:56	WG1697902
Vinyl chloride	ND		0.00100	1	07/01/2021 11:56	WG1697902
Xylenes, Total	ND		0.00300	1	07/01/2021 11:56	WG1697902
(S) Toluene-d8	103		80.0-120		07/01/2021 11:56	WG1697902
(S) 4-Bromofluorobenzene	97.9		77.0-126		07/01/2021 11:56	WG1697902
(S) 1,2-Dichloroethane-d4	102		70.0-130		07/01/2021 11:56	WG1697902

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Acetone	ND		0.0500	1	07/01/2021 12:16	WG1697902
Acrolein	ND		0.0500	1	07/01/2021 12:16	WG1697902
Acrylonitrile	ND		0.0100	1	07/01/2021 12:16	WG1697902
Benzene	ND		0.00100	1	07/01/2021 12:16	WG1697902
Bromobenzene	ND		0.00100	1	07/01/2021 12:16	WG1697902
Bromodichloromethane	ND		0.00100	1	07/01/2021 12:16	WG1697902
Bromoform	ND		0.00100	1	07/01/2021 12:16	WG1697902
Bromomethane	ND		0.00500	1	07/01/2021 12:16	WG1697902
n-Butylbenzene	ND		0.00100	1	07/01/2021 12:16	WG1697902
sec-Butylbenzene	ND		0.00100	1	07/01/2021 12:16	WG1697902
tert-Butylbenzene	ND		0.00100	1	07/01/2021 12:16	WG1697902
Carbon tetrachloride	ND		0.00100	1	07/01/2021 12:16	WG1697902
Chlorobenzene	ND		0.00100	1	07/01/2021 12:16	WG1697902
Chlorodibromomethane	ND		0.00100	1	07/01/2021 12:16	WG1697902
Chloroethane	ND		0.00500	1	07/01/2021 12:16	WG1697902
Chloroform	ND		0.00500	1	07/01/2021 12:16	WG1697902
Chloromethane	ND		0.00250	1	07/01/2021 12:16	WG1697902
2-Chlorotoluene	ND		0.00100	1	07/01/2021 12:16	WG1697902
4-Chlorotoluene	ND		0.00100	1	07/01/2021 12:16	WG1697902
1,2-Dibromo-3-Chloropropane	ND		0.00500	1	07/01/2021 12:16	WG1697902
1,2-Dibromoethane	ND		0.00100	1	07/01/2021 12:16	WG1697902
Dibromomethane	ND		0.00100	1	07/01/2021 12:16	WG1697902
1,2-Dichlorobenzene	ND		0.00100	1	07/01/2021 12:16	WG1697902
1,3-Dichlorobenzene	ND		0.00100	1	07/01/2021 12:16	WG1697902
1,4-Dichlorobenzene	ND		0.00100	1	07/01/2021 12:16	WG1697902
Dichlorodifluoromethane	ND		0.00500	1	07/01/2021 12:16	WG1697902
1,1-Dichloroethane	ND		0.00100	1	07/01/2021 12:16	WG1697902
1,2-Dichloroethane	ND		0.00100	1	07/01/2021 12:16	WG1697902
1,1-Dichloroethene	ND		0.00100	1	07/01/2021 12:16	WG1697902
cis-1,2-Dichloroethene	0.00309		0.00100	1	07/01/2021 12:16	WG1697902
trans-1,2-Dichloroethene	ND		0.00100	1	07/01/2021 12:16	WG1697902
1,2-Dichloropropane	ND		0.00100	1	07/01/2021 12:16	WG1697902
1,1-Dichloropropene	ND		0.00100	1	07/01/2021 12:16	WG1697902
1,3-Dichloropropane	ND		0.00100	1	07/01/2021 12:16	WG1697902
cis-1,3-Dichloropropene	ND		0.00100	1	07/01/2021 12:16	WG1697902
trans-1,3-Dichloropropene	ND		0.00100	1	07/01/2021 12:16	WG1697902
2,2-Dichloropropane	ND		0.00100	1	07/01/2021 12:16	WG1697902
Di-isopropyl ether	ND		0.00100	1	07/01/2021 12:16	WG1697902
Ethylbenzene	ND		0.00100	1	07/01/2021 12:16	WG1697902
Hexachloro-1,3-butadiene	ND		0.00100	1	07/01/2021 12:16	WG1697902
Isopropylbenzene	ND		0.00100	1	07/01/2021 12:16	WG1697902
p-Isopropyltoluene	ND		0.00100	1	07/01/2021 12:16	WG1697902
2-Butanone (MEK)	ND		0.0100	1	07/01/2021 12:16	WG1697902
Methylene Chloride	ND		0.00500	1	07/01/2021 12:16	WG1697902
4-Methyl-2-pentanone (MIBK)	ND		0.0100	1	07/01/2021 12:16	WG1697902
Methyl tert-butyl ether	ND		0.00100	1	07/01/2021 12:16	WG1697902
Naphthalene	ND		0.00500	1	07/01/2021 12:16	WG1697902
n-Propylbenzene	ND		0.00100	1	07/01/2021 12:16	WG1697902
Styrene	ND		0.00100	1	07/01/2021 12:16	WG1697902
1,1,1,2-Tetrachloroethane	ND		0.00100	1	07/01/2021 12:16	WG1697902
1,1,2,2-Tetrachloroethane	ND		0.00100	1	07/01/2021 12:16	WG1697902
1,1,2-Trichlorotrifluoroethane	ND		0.00100	1	07/01/2021 12:16	WG1697902
Tetrachloroethene	0.00300		0.00100	1	07/01/2021 12:16	WG1697902
Toluene	ND		0.00100	1	07/01/2021 12:16	WG1697902
1,2,3-Trichlorobenzene	ND		0.00100	1	07/01/2021 12:16	WG1697902
1,2,4-Trichlorobenzene	ND		0.00100	1	07/01/2021 12:16	WG1697902

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		0.00100	1	07/01/2021 12:16	WG1697902
1,1,2-Trichloroethane	ND		0.00100	1	07/01/2021 12:16	WG1697902
Trichloroethene	0.00200		0.00100	1	07/01/2021 12:16	WG1697902
Trichlorofluoromethane	ND		0.00500	1	07/01/2021 12:16	WG1697902
1,2,3-Trichloropropane	ND		0.00250	1	07/01/2021 12:16	WG1697902
1,2,4-Trimethylbenzene	ND		0.00100	1	07/01/2021 12:16	WG1697902
1,2,3-Trimethylbenzene	ND		0.00100	1	07/01/2021 12:16	WG1697902
1,3,5-Trimethylbenzene	ND		0.00100	1	07/01/2021 12:16	WG1697902
Vinyl chloride	ND		0.00100	1	07/01/2021 12:16	WG1697902
Xylenes, Total	ND		0.00300	1	07/01/2021 12:16	WG1697902
(S) Toluene-d8	104		80.0-120		07/01/2021 12:16	WG1697902
(S) 4-Bromofluorobenzene	98.0		77.0-126		07/01/2021 12:16	WG1697902
(S) 1,2-Dichloroethane-d4	101		70.0-130		07/01/2021 12:16	WG1697902

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Acetone	ND		0.0500	1	07/01/2021 12:36	WG1697902
Acrolein	ND		0.0500	1	07/01/2021 12:36	WG1697902
Acrylonitrile	ND		0.0100	1	07/01/2021 12:36	WG1697902
Benzene	ND		0.00100	1	07/01/2021 12:36	WG1697902
Bromobenzene	ND		0.00100	1	07/01/2021 12:36	WG1697902
Bromodichloromethane	ND		0.00100	1	07/01/2021 12:36	WG1697902
Bromoform	ND		0.00100	1	07/01/2021 12:36	WG1697902
Bromomethane	ND		0.00500	1	07/01/2021 12:36	WG1697902
n-Butylbenzene	ND		0.00100	1	07/01/2021 12:36	WG1697902
sec-Butylbenzene	ND		0.00100	1	07/01/2021 12:36	WG1697902
tert-Butylbenzene	ND		0.00100	1	07/01/2021 12:36	WG1697902
Carbon tetrachloride	ND		0.00100	1	07/01/2021 12:36	WG1697902
Chlorobenzene	ND		0.00100	1	07/01/2021 12:36	WG1697902
Chlorodibromomethane	ND		0.00100	1	07/01/2021 12:36	WG1697902
Chloroethane	ND		0.00500	1	07/01/2021 12:36	WG1697902
Chloroform	ND		0.00500	1	07/01/2021 12:36	WG1697902
Chloromethane	ND		0.00250	1	07/01/2021 12:36	WG1697902
2-Chlorotoluene	ND		0.00100	1	07/01/2021 12:36	WG1697902
4-Chlorotoluene	ND		0.00100	1	07/01/2021 12:36	WG1697902
1,2-Dibromo-3-Chloropropane	ND		0.00500	1	07/01/2021 12:36	WG1697902
1,2-Dibromoethane	ND		0.00100	1	07/01/2021 12:36	WG1697902
Dibromomethane	ND		0.00100	1	07/01/2021 12:36	WG1697902
1,2-Dichlorobenzene	ND		0.00100	1	07/01/2021 12:36	WG1697902
1,3-Dichlorobenzene	ND		0.00100	1	07/01/2021 12:36	WG1697902
1,4-Dichlorobenzene	ND		0.00100	1	07/01/2021 12:36	WG1697902
Dichlorodifluoromethane	ND		0.00500	1	07/01/2021 12:36	WG1697902
1,1-Dichloroethane	ND		0.00100	1	07/01/2021 12:36	WG1697902
1,2-Dichloroethane	ND		0.00100	1	07/01/2021 12:36	WG1697902
1,1-Dichloroethene	ND		0.00100	1	07/01/2021 12:36	WG1697902
cis-1,2-Dichloroethene	0.00686		0.00100	1	07/01/2021 12:36	WG1697902
trans-1,2-Dichloroethene	ND		0.00100	1	07/01/2021 12:36	WG1697902
1,2-Dichloropropane	ND		0.00100	1	07/01/2021 12:36	WG1697902
1,1-Dichloropropene	ND		0.00100	1	07/01/2021 12:36	WG1697902
1,3-Dichloropropane	ND		0.00100	1	07/01/2021 12:36	WG1697902
cis-1,3-Dichloropropene	ND		0.00100	1	07/01/2021 12:36	WG1697902
trans-1,3-Dichloropropene	ND		0.00100	1	07/01/2021 12:36	WG1697902
2,2-Dichloropropane	ND		0.00100	1	07/01/2021 12:36	WG1697902
Di-isopropyl ether	ND		0.00100	1	07/01/2021 12:36	WG1697902
Ethylbenzene	ND		0.00100	1	07/01/2021 12:36	WG1697902
Hexachloro-1,3-butadiene	ND		0.00100	1	07/01/2021 12:36	WG1697902
Isopropylbenzene	ND		0.00100	1	07/01/2021 12:36	WG1697902
p-Isopropyltoluene	ND		0.00100	1	07/01/2021 12:36	WG1697902
2-Butanone (MEK)	ND		0.0100	1	07/01/2021 12:36	WG1697902
Methylene Chloride	ND		0.00500	1	07/01/2021 12:36	WG1697902
4-Methyl-2-pentanone (MIBK)	ND		0.0100	1	07/01/2021 12:36	WG1697902
Methyl tert-butyl ether	ND		0.00100	1	07/01/2021 12:36	WG1697902
Naphthalene	ND		0.00500	1	07/01/2021 12:36	WG1697902
n-Propylbenzene	ND		0.00100	1	07/01/2021 12:36	WG1697902
Styrene	ND		0.00100	1	07/01/2021 12:36	WG1697902
1,1,1,2-Tetrachloroethane	ND		0.00100	1	07/01/2021 12:36	WG1697902
1,1,2,2-Tetrachloroethane	ND		0.00100	1	07/01/2021 12:36	WG1697902
1,1,2-Trichlorotrifluoroethane	ND		0.00100	1	07/01/2021 12:36	WG1697902
Tetrachloroethene	0.0515		0.00100	1	07/01/2021 12:36	WG1697902
Toluene	ND		0.00100	1	07/01/2021 12:36	WG1697902
1,2,3-Trichlorobenzene	ND		0.00100	1	07/01/2021 12:36	WG1697902
1,2,4-Trichlorobenzene	ND		0.00100	1	07/01/2021 12:36	WG1697902

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		0.00100	1	07/01/2021 12:36	WG1697902
1,1,2-Trichloroethane	ND		0.00100	1	07/01/2021 12:36	WG1697902
Trichloroethene	0.00918		0.00100	1	07/01/2021 12:36	WG1697902
Trichlorofluoromethane	ND		0.00500	1	07/01/2021 12:36	WG1697902
1,2,3-Trichloropropane	ND		0.00250	1	07/01/2021 12:36	WG1697902
1,2,4-Trimethylbenzene	ND		0.00100	1	07/01/2021 12:36	WG1697902
1,2,3-Trimethylbenzene	ND		0.00100	1	07/01/2021 12:36	WG1697902
1,3,5-Trimethylbenzene	ND		0.00100	1	07/01/2021 12:36	WG1697902
Vinyl chloride	ND		0.00100	1	07/01/2021 12:36	WG1697902
Xylenes, Total	ND		0.00300	1	07/01/2021 12:36	WG1697902
(S) Toluene-d8	103		80.0-120		07/01/2021 12:36	WG1697902
(S) 4-Bromofluorobenzene	99.9		77.0-126		07/01/2021 12:36	WG1697902
(S) 1,2-Dichloroethane-d4	105		70.0-130		07/01/2021 12:36	WG1697902

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Acetone	ND		0.0500	1	07/01/2021 12:56	WG1697902
Acrolein	ND		0.0500	1	07/01/2021 12:56	WG1697902
Acrylonitrile	ND		0.0100	1	07/01/2021 12:56	WG1697902
Benzene	ND		0.00100	1	07/01/2021 12:56	WG1697902
Bromobenzene	ND		0.00100	1	07/01/2021 12:56	WG1697902
Bromodichloromethane	ND		0.00100	1	07/01/2021 12:56	WG1697902
Bromoform	ND		0.00100	1	07/01/2021 12:56	WG1697902
Bromomethane	ND		0.00500	1	07/01/2021 12:56	WG1697902
n-Butylbenzene	ND		0.00100	1	07/01/2021 12:56	WG1697902
sec-Butylbenzene	ND		0.00100	1	07/01/2021 12:56	WG1697902
tert-Butylbenzene	ND		0.00100	1	07/01/2021 12:56	WG1697902
Carbon tetrachloride	ND		0.00100	1	07/01/2021 12:56	WG1697902
Chlorobenzene	ND		0.00100	1	07/01/2021 12:56	WG1697902
Chlorodibromomethane	ND		0.00100	1	07/01/2021 12:56	WG1697902
Chloroethane	ND		0.00500	1	07/01/2021 12:56	WG1697902
Chloroform	ND		0.00500	1	07/01/2021 12:56	WG1697902
Chloromethane	ND		0.00250	1	07/01/2021 12:56	WG1697902
2-Chlorotoluene	ND		0.00100	1	07/01/2021 12:56	WG1697902
4-Chlorotoluene	ND		0.00100	1	07/01/2021 12:56	WG1697902
1,2-Dibromo-3-Chloropropane	ND		0.00500	1	07/01/2021 12:56	WG1697902
1,2-Dibromoethane	ND		0.00100	1	07/01/2021 12:56	WG1697902
Dibromomethane	ND		0.00100	1	07/01/2021 12:56	WG1697902
1,2-Dichlorobenzene	ND		0.00100	1	07/01/2021 12:56	WG1697902
1,3-Dichlorobenzene	ND		0.00100	1	07/01/2021 12:56	WG1697902
1,4-Dichlorobenzene	ND		0.00100	1	07/01/2021 12:56	WG1697902
Dichlorodifluoromethane	ND		0.00500	1	07/01/2021 12:56	WG1697902
1,1-Dichloroethane	ND		0.00100	1	07/01/2021 12:56	WG1697902
1,2-Dichloroethane	ND		0.00100	1	07/01/2021 12:56	WG1697902
1,1-Dichloroethene	ND		0.00100	1	07/01/2021 12:56	WG1697902
cis-1,2-Dichloroethene	0.00147		0.00100	1	07/01/2021 12:56	WG1697902
trans-1,2-Dichloroethene	0.00129		0.00100	1	07/01/2021 12:56	WG1697902
1,2-Dichloropropane	ND		0.00100	1	07/01/2021 12:56	WG1697902
1,1-Dichloropropene	ND		0.00100	1	07/01/2021 12:56	WG1697902
1,3-Dichloropropane	ND		0.00100	1	07/01/2021 12:56	WG1697902
cis-1,3-Dichloropropene	ND		0.00100	1	07/01/2021 12:56	WG1697902
trans-1,3-Dichloropropene	ND		0.00100	1	07/01/2021 12:56	WG1697902
2,2-Dichloropropane	ND		0.00100	1	07/01/2021 12:56	WG1697902
Di-isopropyl ether	ND		0.00100	1	07/01/2021 12:56	WG1697902
Ethylbenzene	ND		0.00100	1	07/01/2021 12:56	WG1697902
Hexachloro-1,3-butadiene	ND		0.00100	1	07/01/2021 12:56	WG1697902
Isopropylbenzene	ND		0.00100	1	07/01/2021 12:56	WG1697902
p-Isopropyltoluene	ND		0.00100	1	07/01/2021 12:56	WG1697902
2-Butanone (MEK)	ND		0.0100	1	07/01/2021 12:56	WG1697902
Methylene Chloride	ND		0.00500	1	07/01/2021 12:56	WG1697902
4-Methyl-2-pentanone (MIBK)	ND		0.0100	1	07/01/2021 12:56	WG1697902
Methyl tert-butyl ether	ND		0.00100	1	07/01/2021 12:56	WG1697902
Naphthalene	ND		0.00500	1	07/01/2021 12:56	WG1697902
n-Propylbenzene	ND		0.00100	1	07/01/2021 12:56	WG1697902
Styrene	ND		0.00100	1	07/01/2021 12:56	WG1697902
1,1,1,2-Tetrachloroethane	ND		0.00100	1	07/01/2021 12:56	WG1697902
1,1,2,2-Tetrachloroethane	ND		0.00100	1	07/01/2021 12:56	WG1697902
1,1,2-Trichlorotrifluoroethane	ND		0.00100	1	07/01/2021 12:56	WG1697902
Tetrachloroethene	0.0909		0.00100	1	07/01/2021 12:56	WG1697902
Toluene	ND		0.00100	1	07/01/2021 12:56	WG1697902
1,2,3-Trichlorobenzene	ND		0.00100	1	07/01/2021 12:56	WG1697902
1,2,4-Trichlorobenzene	ND		0.00100	1	07/01/2021 12:56	WG1697902



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		0.00100	1	07/01/2021 12:56	WG1697902
1,1,2-Trichloroethane	ND		0.00100	1	07/01/2021 12:56	WG1697902
Trichloroethene	0.0265		0.00100	1	07/01/2021 12:56	WG1697902
Trichlorofluoromethane	ND		0.00500	1	07/01/2021 12:56	WG1697902
1,2,3-Trichloropropane	ND		0.00250	1	07/01/2021 12:56	WG1697902
1,2,4-Trimethylbenzene	ND		0.00100	1	07/01/2021 12:56	WG1697902
1,2,3-Trimethylbenzene	ND		0.00100	1	07/01/2021 12:56	WG1697902
1,3,5-Trimethylbenzene	ND		0.00100	1	07/01/2021 12:56	WG1697902
Vinyl chloride	ND		0.00100	1	07/01/2021 12:56	WG1697902
Xylenes, Total	ND		0.00300	1	07/01/2021 12:56	WG1697902
(S) Toluene-d8	105		80.0-120		07/01/2021 12:56	WG1697902
(S) 4-Bromofluorobenzene	97.3		77.0-126		07/01/2021 12:56	WG1697902
(S) 1,2-Dichloroethane-d4	101		70.0-130		07/01/2021 12:56	WG1697902

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Acetone	ND		0.0500	1	07/01/2021 13:16	WG1697902
Acrolein	ND		0.0500	1	07/01/2021 13:16	WG1697902
Acrylonitrile	ND		0.0100	1	07/01/2021 13:16	WG1697902
Benzene	ND		0.00100	1	07/01/2021 13:16	WG1697902
Bromobenzene	ND		0.00100	1	07/01/2021 13:16	WG1697902
Bromodichloromethane	ND		0.00100	1	07/01/2021 13:16	WG1697902
Bromoform	ND		0.00100	1	07/01/2021 13:16	WG1697902
Bromomethane	ND		0.00500	1	07/01/2021 13:16	WG1697902
n-Butylbenzene	ND		0.00100	1	07/01/2021 13:16	WG1697902
sec-Butylbenzene	ND		0.00100	1	07/01/2021 13:16	WG1697902
tert-Butylbenzene	ND		0.00100	1	07/01/2021 13:16	WG1697902
Carbon tetrachloride	ND		0.00100	1	07/01/2021 13:16	WG1697902
Chlorobenzene	ND		0.00100	1	07/01/2021 13:16	WG1697902
Chlorodibromomethane	ND		0.00100	1	07/01/2021 13:16	WG1697902
Chloroethane	ND		0.00500	1	07/01/2021 13:16	WG1697902
Chloroform	ND		0.00500	1	07/01/2021 13:16	WG1697902
Chloromethane	ND		0.00250	1	07/01/2021 13:16	WG1697902
2-Chlorotoluene	ND		0.00100	1	07/01/2021 13:16	WG1697902
4-Chlorotoluene	ND		0.00100	1	07/01/2021 13:16	WG1697902
1,2-Dibromo-3-Chloropropane	ND		0.00500	1	07/01/2021 13:16	WG1697902
1,2-Dibromoethane	ND		0.00100	1	07/01/2021 13:16	WG1697902
Dibromomethane	ND		0.00100	1	07/01/2021 13:16	WG1697902
1,2-Dichlorobenzene	ND		0.00100	1	07/01/2021 13:16	WG1697902
1,3-Dichlorobenzene	ND		0.00100	1	07/01/2021 13:16	WG1697902
1,4-Dichlorobenzene	ND		0.00100	1	07/01/2021 13:16	WG1697902
Dichlorodifluoromethane	ND		0.00500	1	07/01/2021 13:16	WG1697902
1,1-Dichloroethane	ND		0.00100	1	07/01/2021 13:16	WG1697902
1,2-Dichloroethane	ND		0.00100	1	07/01/2021 13:16	WG1697902
1,1-Dichloroethene	ND		0.00100	1	07/01/2021 13:16	WG1697902
cis-1,2-Dichloroethene	0.00335		0.00100	1	07/01/2021 13:16	WG1697902
trans-1,2-Dichloroethene	ND		0.00100	1	07/01/2021 13:16	WG1697902
1,2-Dichloropropane	ND		0.00100	1	07/01/2021 13:16	WG1697902
1,1-Dichloropropene	ND		0.00100	1	07/01/2021 13:16	WG1697902
1,3-Dichloropropane	ND		0.00100	1	07/01/2021 13:16	WG1697902
cis-1,3-Dichloropropene	ND		0.00100	1	07/01/2021 13:16	WG1697902
trans-1,3-Dichloropropene	ND		0.00100	1	07/01/2021 13:16	WG1697902
2,2-Dichloropropane	ND		0.00100	1	07/01/2021 13:16	WG1697902
Di-isopropyl ether	ND		0.00100	1	07/01/2021 13:16	WG1697902
Ethylbenzene	ND		0.00100	1	07/01/2021 13:16	WG1697902
Hexachloro-1,3-butadiene	ND		0.00100	1	07/01/2021 13:16	WG1697902
Isopropylbenzene	ND		0.00100	1	07/01/2021 13:16	WG1697902
p-Isopropyltoluene	ND		0.00100	1	07/01/2021 13:16	WG1697902
2-Butanone (MEK)	ND		0.0100	1	07/01/2021 13:16	WG1697902
Methylene Chloride	ND		0.00500	1	07/01/2021 13:16	WG1697902
4-Methyl-2-pentanone (MIBK)	ND		0.0100	1	07/01/2021 13:16	WG1697902
Methyl tert-butyl ether	ND		0.00100	1	07/01/2021 13:16	WG1697902
Naphthalene	ND		0.00500	1	07/01/2021 13:16	WG1697902
n-Propylbenzene	ND		0.00100	1	07/01/2021 13:16	WG1697902
Styrene	ND		0.00100	1	07/01/2021 13:16	WG1697902
1,1,1,2-Tetrachloroethane	ND		0.00100	1	07/01/2021 13:16	WG1697902
1,1,2,2-Tetrachloroethane	ND		0.00100	1	07/01/2021 13:16	WG1697902
1,1,2-Trichlorotrifluoroethane	ND		0.00100	1	07/01/2021 13:16	WG1697902
Tetrachloroethene	0.00828		0.00100	1	07/01/2021 13:16	WG1697902
Toluene	ND		0.00100	1	07/01/2021 13:16	WG1697902
1,2,3-Trichlorobenzene	ND		0.00100	1	07/01/2021 13:16	WG1697902
1,2,4-Trichlorobenzene	ND		0.00100	1	07/01/2021 13:16	WG1697902

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		0.00100	1	07/01/2021 13:16	WG1697902
1,1,2-Trichloroethane	ND		0.00100	1	07/01/2021 13:16	WG1697902
Trichloroethene	0.00914		0.00100	1	07/01/2021 13:16	WG1697902
Trichlorofluoromethane	ND		0.00500	1	07/01/2021 13:16	WG1697902
1,2,3-Trichloropropane	ND		0.00250	1	07/01/2021 13:16	WG1697902
1,2,4-Trimethylbenzene	ND		0.00100	1	07/01/2021 13:16	WG1697902
1,2,3-Trimethylbenzene	ND		0.00100	1	07/01/2021 13:16	WG1697902
1,3,5-Trimethylbenzene	ND		0.00100	1	07/01/2021 13:16	WG1697902
Vinyl chloride	ND		0.00100	1	07/01/2021 13:16	WG1697902
Xylenes, Total	ND		0.00300	1	07/01/2021 13:16	WG1697902
(S) Toluene-d8	104		80.0-120		07/01/2021 13:16	WG1697902
(S) 4-Bromofluorobenzene	96.9		77.0-126		07/01/2021 13:16	WG1697902
(S) 1,2-Dichloroethane-d4	102		70.0-130		07/01/2021 13:16	WG1697902

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Acetone	ND		0.0500	1	07/01/2021 13:36	WG1697902
Acrolein	ND		0.0500	1	07/01/2021 13:36	WG1697902
Acrylonitrile	ND		0.0100	1	07/01/2021 13:36	WG1697902
Benzene	ND		0.00100	1	07/01/2021 13:36	WG1697902
Bromobenzene	ND		0.00100	1	07/01/2021 13:36	WG1697902
Bromodichloromethane	ND		0.00100	1	07/01/2021 13:36	WG1697902
Bromoform	ND		0.00100	1	07/01/2021 13:36	WG1697902
Bromomethane	ND		0.00500	1	07/01/2021 13:36	WG1697902
n-Butylbenzene	ND		0.00100	1	07/01/2021 13:36	WG1697902
sec-Butylbenzene	ND		0.00100	1	07/01/2021 13:36	WG1697902
tert-Butylbenzene	ND		0.00100	1	07/01/2021 13:36	WG1697902
Carbon tetrachloride	ND		0.00100	1	07/01/2021 13:36	WG1697902
Chlorobenzene	ND		0.00100	1	07/01/2021 13:36	WG1697902
Chlorodibromomethane	ND		0.00100	1	07/01/2021 13:36	WG1697902
Chloroethane	ND		0.00500	1	07/01/2021 13:36	WG1697902
Chloroform	ND		0.00500	1	07/01/2021 13:36	WG1697902
Chloromethane	ND		0.00250	1	07/01/2021 13:36	WG1697902
2-Chlorotoluene	ND		0.00100	1	07/01/2021 13:36	WG1697902
4-Chlorotoluene	ND		0.00100	1	07/01/2021 13:36	WG1697902
1,2-Dibromo-3-Chloropropane	ND		0.00500	1	07/01/2021 13:36	WG1697902
1,2-Dibromoethane	ND		0.00100	1	07/01/2021 13:36	WG1697902
Dibromomethane	ND		0.00100	1	07/01/2021 13:36	WG1697902
1,2-Dichlorobenzene	ND		0.00100	1	07/01/2021 13:36	WG1697902
1,3-Dichlorobenzene	ND		0.00100	1	07/01/2021 13:36	WG1697902
1,4-Dichlorobenzene	ND		0.00100	1	07/01/2021 13:36	WG1697902
Dichlorodifluoromethane	ND		0.00500	1	07/01/2021 13:36	WG1697902
1,1-Dichloroethane	ND		0.00100	1	07/01/2021 13:36	WG1697902
1,2-Dichloroethane	ND		0.00100	1	07/01/2021 13:36	WG1697902
1,1-Dichloroethene	ND		0.00100	1	07/01/2021 13:36	WG1697902
cis-1,2-Dichloroethene	0.00260		0.00100	1	07/01/2021 13:36	WG1697902
trans-1,2-Dichloroethene	ND		0.00100	1	07/01/2021 13:36	WG1697902
1,2-Dichloropropane	ND		0.00100	1	07/01/2021 13:36	WG1697902
1,1-Dichloropropene	ND		0.00100	1	07/01/2021 13:36	WG1697902
1,3-Dichloropropane	ND		0.00100	1	07/01/2021 13:36	WG1697902
cis-1,3-Dichloropropene	ND		0.00100	1	07/01/2021 13:36	WG1697902
trans-1,3-Dichloropropene	ND		0.00100	1	07/01/2021 13:36	WG1697902
2,2-Dichloropropane	ND		0.00100	1	07/01/2021 13:36	WG1697902
Di-isopropyl ether	ND		0.00100	1	07/01/2021 13:36	WG1697902
Ethylbenzene	ND		0.00100	1	07/01/2021 13:36	WG1697902
Hexachloro-1,3-butadiene	ND		0.00100	1	07/01/2021 13:36	WG1697902
Isopropylbenzene	ND		0.00100	1	07/01/2021 13:36	WG1697902
p-Isopropyltoluene	ND		0.00100	1	07/01/2021 13:36	WG1697902
2-Butanone (MEK)	ND		0.0100	1	07/01/2021 13:36	WG1697902
Methylene Chloride	ND		0.00500	1	07/01/2021 13:36	WG1697902
4-Methyl-2-pentanone (MIBK)	ND		0.0100	1	07/01/2021 13:36	WG1697902
Methyl tert-butyl ether	ND		0.00100	1	07/01/2021 13:36	WG1697902
Naphthalene	ND		0.00500	1	07/01/2021 13:36	WG1697902
n-Propylbenzene	ND		0.00100	1	07/01/2021 13:36	WG1697902
Styrene	ND		0.00100	1	07/01/2021 13:36	WG1697902
1,1,1,2-Tetrachloroethane	ND		0.00100	1	07/01/2021 13:36	WG1697902
1,1,2,2-Tetrachloroethane	ND		0.00100	1	07/01/2021 13:36	WG1697902
1,1,2-Trichlorotrifluoroethane	ND		0.00100	1	07/01/2021 13:36	WG1697902
Tetrachloroethene	0.0331		0.00100	1	07/01/2021 13:36	WG1697902
Toluene	ND		0.00100	1	07/01/2021 13:36	WG1697902
1,2,3-Trichlorobenzene	ND		0.00100	1	07/01/2021 13:36	WG1697902
1,2,4-Trichlorobenzene	ND		0.00100	1	07/01/2021 13:36	WG1697902



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		0.00100	1	07/01/2021 13:36	WG1697902
1,1,2-Trichloroethane	ND		0.00100	1	07/01/2021 13:36	WG1697902
Trichloroethene	0.00463		0.00100	1	07/01/2021 13:36	WG1697902
Trichlorofluoromethane	ND		0.00500	1	07/01/2021 13:36	WG1697902
1,2,3-Trichloropropane	ND		0.00250	1	07/01/2021 13:36	WG1697902
1,2,4-Trimethylbenzene	ND		0.00100	1	07/01/2021 13:36	WG1697902
1,2,3-Trimethylbenzene	ND		0.00100	1	07/01/2021 13:36	WG1697902
1,3,5-Trimethylbenzene	ND		0.00100	1	07/01/2021 13:36	WG1697902
Vinyl chloride	ND		0.00100	1	07/01/2021 13:36	WG1697902
Xylenes, Total	ND		0.00300	1	07/01/2021 13:36	WG1697902
(S) Toluene-d8	106		80.0-120		07/01/2021 13:36	WG1697902
(S) 4-Bromofluorobenzene	99.6		77.0-126		07/01/2021 13:36	WG1697902
(S) 1,2-Dichloroethane-d4	102		70.0-130		07/01/2021 13:36	WG1697902

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Acetone	ND		0.0500	1	07/01/2021 13:56	WG1697902
Acrolein	ND		0.0500	1	07/01/2021 13:56	WG1697902
Acrylonitrile	ND		0.0100	1	07/01/2021 13:56	WG1697902
Benzene	ND		0.00100	1	07/01/2021 13:56	WG1697902
Bromobenzene	ND		0.00100	1	07/01/2021 13:56	WG1697902
Bromodichloromethane	ND		0.00100	1	07/01/2021 13:56	WG1697902
Bromoform	ND		0.00100	1	07/01/2021 13:56	WG1697902
Bromomethane	ND		0.00500	1	07/01/2021 13:56	WG1697902
n-Butylbenzene	ND		0.00100	1	07/01/2021 13:56	WG1697902
sec-Butylbenzene	ND		0.00100	1	07/01/2021 13:56	WG1697902
tert-Butylbenzene	ND		0.00100	1	07/01/2021 13:56	WG1697902
Carbon tetrachloride	ND		0.00100	1	07/01/2021 13:56	WG1697902
Chlorobenzene	ND		0.00100	1	07/01/2021 13:56	WG1697902
Chlorodibromomethane	ND		0.00100	1	07/01/2021 13:56	WG1697902
Chloroethane	ND		0.00500	1	07/01/2021 13:56	WG1697902
Chloroform	ND		0.00500	1	07/01/2021 13:56	WG1697902
Chloromethane	ND		0.00250	1	07/01/2021 13:56	WG1697902
2-Chlorotoluene	ND		0.00100	1	07/01/2021 13:56	WG1697902
4-Chlorotoluene	ND		0.00100	1	07/01/2021 13:56	WG1697902
1,2-Dibromo-3-Chloropropane	ND		0.00500	1	07/01/2021 13:56	WG1697902
1,2-Dibromoethane	ND		0.00100	1	07/01/2021 13:56	WG1697902
Dibromomethane	ND		0.00100	1	07/01/2021 13:56	WG1697902
1,2-Dichlorobenzene	ND		0.00100	1	07/01/2021 13:56	WG1697902
1,3-Dichlorobenzene	ND		0.00100	1	07/01/2021 13:56	WG1697902
1,4-Dichlorobenzene	ND		0.00100	1	07/01/2021 13:56	WG1697902
Dichlorodifluoromethane	ND		0.00500	1	07/01/2021 13:56	WG1697902
1,1-Dichloroethane	ND		0.00100	1	07/01/2021 13:56	WG1697902
1,2-Dichloroethane	ND		0.00100	1	07/01/2021 13:56	WG1697902
1,1-Dichloroethene	ND		0.00100	1	07/01/2021 13:56	WG1697902
cis-1,2-Dichloroethene	ND		0.00100	1	07/01/2021 13:56	WG1697902
trans-1,2-Dichloroethene	ND		0.00100	1	07/01/2021 13:56	WG1697902
1,2-Dichloropropane	ND		0.00100	1	07/01/2021 13:56	WG1697902
1,1-Dichloropropene	ND		0.00100	1	07/01/2021 13:56	WG1697902
1,3-Dichloropropane	ND		0.00100	1	07/01/2021 13:56	WG1697902
cis-1,3-Dichloropropene	ND		0.00100	1	07/01/2021 13:56	WG1697902
trans-1,3-Dichloropropene	ND		0.00100	1	07/01/2021 13:56	WG1697902
2,2-Dichloropropane	ND		0.00100	1	07/01/2021 13:56	WG1697902
Di-isopropyl ether	ND		0.00100	1	07/01/2021 13:56	WG1697902
Ethylbenzene	ND		0.00100	1	07/01/2021 13:56	WG1697902
Hexachloro-1,3-butadiene	ND		0.00100	1	07/01/2021 13:56	WG1697902
Isopropylbenzene	ND		0.00100	1	07/01/2021 13:56	WG1697902
p-Isopropyltoluene	ND		0.00100	1	07/01/2021 13:56	WG1697902
2-Butanone (MEK)	ND		0.0100	1	07/01/2021 13:56	WG1697902
Methylene Chloride	ND		0.00500	1	07/01/2021 13:56	WG1697902
4-Methyl-2-pentanone (MIBK)	ND		0.0100	1	07/01/2021 13:56	WG1697902
Methyl tert-butyl ether	ND		0.00100	1	07/01/2021 13:56	WG1697902
Naphthalene	ND		0.00500	1	07/01/2021 13:56	WG1697902
n-Propylbenzene	ND		0.00100	1	07/01/2021 13:56	WG1697902
Styrene	ND		0.00100	1	07/01/2021 13:56	WG1697902
1,1,1,2-Tetrachloroethane	ND		0.00100	1	07/01/2021 13:56	WG1697902
1,1,2,2-Tetrachloroethane	ND		0.00100	1	07/01/2021 13:56	WG1697902
1,1,2-Trichlorotrifluoroethane	ND		0.00100	1	07/01/2021 13:56	WG1697902
Tetrachloroethene	0.00142		0.00100	1	07/01/2021 13:56	WG1697902
Toluene	ND		0.00100	1	07/01/2021 13:56	WG1697902
1,2,3-Trichlorobenzene	ND		0.00100	1	07/01/2021 13:56	WG1697902
1,2,4-Trichlorobenzene	ND		0.00100	1	07/01/2021 13:56	WG1697902



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		0.00100	1	07/01/2021 13:56	WG1697902
1,1,2-Trichloroethane	ND		0.00100	1	07/01/2021 13:56	WG1697902
Trichloroethene	ND		0.00100	1	07/01/2021 13:56	WG1697902
Trichlorofluoromethane	ND		0.00500	1	07/01/2021 13:56	WG1697902
1,2,3-Trichloropropane	ND		0.00250	1	07/01/2021 13:56	WG1697902
1,2,4-Trimethylbenzene	ND		0.00100	1	07/01/2021 13:56	WG1697902
1,2,3-Trimethylbenzene	ND		0.00100	1	07/01/2021 13:56	WG1697902
1,3,5-Trimethylbenzene	ND		0.00100	1	07/01/2021 13:56	WG1697902
Vinyl chloride	ND		0.00100	1	07/01/2021 13:56	WG1697902
Xylenes, Total	ND		0.00300	1	07/01/2021 13:56	WG1697902
(S) Toluene-d8	104		80.0-120		07/01/2021 13:56	WG1697902
(S) 4-Bromofluorobenzene	98.9		77.0-126		07/01/2021 13:56	WG1697902
(S) 1,2-Dichloroethane-d4	102		70.0-130		07/01/2021 13:56	WG1697902

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	ND		0.0500	1	07/01/2021 14:16	WG1697902
Acrolein	ND		0.0500	1	07/01/2021 14:16	WG1697902
Acrylonitrile	ND		0.0100	1	07/01/2021 14:16	WG1697902
Benzene	ND		0.00100	1	07/01/2021 14:16	WG1697902
Bromobenzene	ND		0.00100	1	07/01/2021 14:16	WG1697902
Bromodichloromethane	ND		0.00100	1	07/01/2021 14:16	WG1697902
Bromoform	ND		0.00100	1	07/01/2021 14:16	WG1697902
Bromomethane	ND		0.00500	1	07/01/2021 14:16	WG1697902
n-Butylbenzene	ND		0.00100	1	07/01/2021 14:16	WG1697902
sec-Butylbenzene	ND		0.00100	1	07/01/2021 14:16	WG1697902
tert-Butylbenzene	ND		0.00100	1	07/01/2021 14:16	WG1697902
Carbon tetrachloride	ND		0.00100	1	07/01/2021 14:16	WG1697902
Chlorobenzene	ND		0.00100	1	07/01/2021 14:16	WG1697902
Chlorodibromomethane	ND		0.00100	1	07/01/2021 14:16	WG1697902
Chloroethane	ND		0.00500	1	07/01/2021 14:16	WG1697902
Chloroform	ND		0.00500	1	07/01/2021 14:16	WG1697902
Chloromethane	ND		0.00250	1	07/01/2021 14:16	WG1697902
2-Chlorotoluene	ND		0.00100	1	07/01/2021 14:16	WG1697902
4-Chlorotoluene	ND		0.00100	1	07/01/2021 14:16	WG1697902
1,2-Dibromo-3-Chloropropane	ND		0.00500	1	07/01/2021 14:16	WG1697902
1,2-Dibromoethane	ND		0.00100	1	07/01/2021 14:16	WG1697902
Dibromomethane	ND		0.00100	1	07/01/2021 14:16	WG1697902
1,2-Dichlorobenzene	ND		0.00100	1	07/01/2021 14:16	WG1697902
1,3-Dichlorobenzene	ND		0.00100	1	07/01/2021 14:16	WG1697902
1,4-Dichlorobenzene	ND		0.00100	1	07/01/2021 14:16	WG1697902
Dichlorodifluoromethane	ND		0.00500	1	07/01/2021 14:16	WG1697902
1,1-Dichloroethane	ND		0.00100	1	07/01/2021 14:16	WG1697902
1,2-Dichloroethane	ND		0.00100	1	07/01/2021 14:16	WG1697902
1,1-Dichloroethene	ND		0.00100	1	07/01/2021 14:16	WG1697902
cis-1,2-Dichloroethene	0.00351		0.00100	1	07/01/2021 14:16	WG1697902
trans-1,2-Dichloroethene	ND		0.00100	1	07/01/2021 14:16	WG1697902
1,2-Dichloropropane	ND		0.00100	1	07/01/2021 14:16	WG1697902
1,1-Dichloropropene	ND		0.00100	1	07/01/2021 14:16	WG1697902
1,3-Dichloropropane	ND		0.00100	1	07/01/2021 14:16	WG1697902
cis-1,3-Dichloropropene	ND		0.00100	1	07/01/2021 14:16	WG1697902
trans-1,3-Dichloropropene	ND		0.00100	1	07/01/2021 14:16	WG1697902
2,2-Dichloropropane	ND		0.00100	1	07/01/2021 14:16	WG1697902
Di-isopropyl ether	ND		0.00100	1	07/01/2021 14:16	WG1697902
Ethylbenzene	ND		0.00100	1	07/01/2021 14:16	WG1697902
Hexachloro-1,3-butadiene	ND		0.00100	1	07/01/2021 14:16	WG1697902
Isopropylbenzene	ND		0.00100	1	07/01/2021 14:16	WG1697902
p-Isopropyltoluene	ND		0.00100	1	07/01/2021 14:16	WG1697902
2-Butanone (MEK)	ND		0.0100	1	07/01/2021 14:16	WG1697902
Methylene Chloride	ND		0.00500	1	07/01/2021 14:16	WG1697902
4-Methyl-2-pentanone (MIBK)	ND		0.0100	1	07/01/2021 14:16	WG1697902
Methyl tert-butyl ether	ND		0.00100	1	07/01/2021 14:16	WG1697902
Naphthalene	ND		0.00500	1	07/01/2021 14:16	WG1697902
n-Propylbenzene	ND		0.00100	1	07/01/2021 14:16	WG1697902
Styrene	ND		0.00100	1	07/01/2021 14:16	WG1697902
1,1,1,2-Tetrachloroethane	ND		0.00100	1	07/01/2021 14:16	WG1697902
1,1,2,2-Tetrachloroethane	ND		0.00100	1	07/01/2021 14:16	WG1697902
1,1,2-Trichlorotrifluoroethane	ND		0.00100	1	07/01/2021 14:16	WG1697902
Tetrachloroethene	0.0311		0.00100	1	07/01/2021 14:16	WG1697902
Toluene	ND		0.00100	1	07/01/2021 14:16	WG1697902
1,2,3-Trichlorobenzene	ND		0.00100	1	07/01/2021 14:16	WG1697902
1,2,4-Trichlorobenzene	ND		0.00100	1	07/01/2021 14:16	WG1697902



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		0.00100	1	07/01/2021 14:16	WG1697902
1,1,2-Trichloroethane	ND		0.00100	1	07/01/2021 14:16	WG1697902
Trichloroethene	0.00663		0.00100	1	07/01/2021 14:16	WG1697902
Trichlorofluoromethane	ND		0.00500	1	07/01/2021 14:16	WG1697902
1,2,3-Trichloropropane	ND		0.00250	1	07/01/2021 14:16	WG1697902
1,2,4-Trimethylbenzene	0.00410		0.00100	1	07/01/2021 14:16	WG1697902
1,2,3-Trimethylbenzene	0.00223		0.00100	1	07/01/2021 14:16	WG1697902
1,3,5-Trimethylbenzene	0.00258		0.00100	1	07/01/2021 14:16	WG1697902
Vinyl chloride	ND		0.00100	1	07/01/2021 14:16	WG1697902
Xylenes, Total	ND		0.00300	1	07/01/2021 14:16	WG1697902
(S) Toluene-d8	104		80.0-120		07/01/2021 14:16	WG1697902
(S) 4-Bromofluorobenzene	98.2		77.0-126		07/01/2021 14:16	WG1697902
(S) 1,2-Dichloroethane-d4	101		70.0-130		07/01/2021 14:16	WG1697902

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Acetone	ND		0.0500	1	07/01/2021 14:37	WG1697902
Acrolein	ND		0.0500	1	07/01/2021 14:37	WG1697902
Acrylonitrile	ND		0.0100	1	07/01/2021 14:37	WG1697902
Benzene	ND		0.00100	1	07/01/2021 14:37	WG1697902
Bromobenzene	ND		0.00100	1	07/01/2021 14:37	WG1697902
Bromodichloromethane	ND		0.00100	1	07/01/2021 14:37	WG1697902
Bromoform	ND		0.00100	1	07/01/2021 14:37	WG1697902
Bromomethane	ND		0.00500	1	07/01/2021 14:37	WG1697902
n-Butylbenzene	ND		0.00100	1	07/01/2021 14:37	WG1697902
sec-Butylbenzene	ND		0.00100	1	07/01/2021 14:37	WG1697902
tert-Butylbenzene	ND		0.00100	1	07/01/2021 14:37	WG1697902
Carbon tetrachloride	ND		0.00100	1	07/01/2021 14:37	WG1697902
Chlorobenzene	ND		0.00100	1	07/01/2021 14:37	WG1697902
Chlorodibromomethane	ND		0.00100	1	07/01/2021 14:37	WG1697902
Chloroethane	ND		0.00500	1	07/01/2021 14:37	WG1697902
Chloroform	ND		0.00500	1	07/01/2021 14:37	WG1697902
Chloromethane	ND		0.00250	1	07/01/2021 14:37	WG1697902
2-Chlorotoluene	ND		0.00100	1	07/01/2021 14:37	WG1697902
4-Chlorotoluene	ND		0.00100	1	07/01/2021 14:37	WG1697902
1,2-Dibromo-3-Chloropropane	ND		0.00500	1	07/01/2021 14:37	WG1697902
1,2-Dibromoethane	ND		0.00100	1	07/01/2021 14:37	WG1697902
Dibromomethane	ND		0.00100	1	07/01/2021 14:37	WG1697902
1,2-Dichlorobenzene	ND		0.00100	1	07/01/2021 14:37	WG1697902
1,3-Dichlorobenzene	ND		0.00100	1	07/01/2021 14:37	WG1697902
1,4-Dichlorobenzene	ND		0.00100	1	07/01/2021 14:37	WG1697902
Dichlorodifluoromethane	ND		0.00500	1	07/01/2021 14:37	WG1697902
1,1-Dichloroethane	ND		0.00100	1	07/01/2021 14:37	WG1697902
1,2-Dichloroethane	ND		0.00100	1	07/01/2021 14:37	WG1697902
1,1-Dichloroethene	ND		0.00100	1	07/01/2021 14:37	WG1697902
cis-1,2-Dichloroethene	0.00606		0.00100	1	07/01/2021 14:37	WG1697902
trans-1,2-Dichloroethene	ND		0.00100	1	07/01/2021 14:37	WG1697902
1,2-Dichloropropane	ND		0.00100	1	07/01/2021 14:37	WG1697902
1,1-Dichloropropene	ND		0.00100	1	07/01/2021 14:37	WG1697902
1,3-Dichloropropane	ND		0.00100	1	07/01/2021 14:37	WG1697902
cis-1,3-Dichloropropene	ND		0.00100	1	07/01/2021 14:37	WG1697902
trans-1,3-Dichloropropene	ND		0.00100	1	07/01/2021 14:37	WG1697902
2,2-Dichloropropane	ND		0.00100	1	07/01/2021 14:37	WG1697902
Di-isopropyl ether	ND		0.00100	1	07/01/2021 14:37	WG1697902
Ethylbenzene	ND		0.00100	1	07/01/2021 14:37	WG1697902
Hexachloro-1,3-butadiene	ND		0.00100	1	07/01/2021 14:37	WG1697902
Isopropylbenzene	ND		0.00100	1	07/01/2021 14:37	WG1697902
p-Isopropyltoluene	ND		0.00100	1	07/01/2021 14:37	WG1697902
2-Butanone (MEK)	ND		0.0100	1	07/01/2021 14:37	WG1697902
Methylene Chloride	ND		0.00500	1	07/01/2021 14:37	WG1697902
4-Methyl-2-pentanone (MIBK)	ND		0.0100	1	07/01/2021 14:37	WG1697902
Methyl tert-butyl ether	ND		0.00100	1	07/01/2021 14:37	WG1697902
Naphthalene	ND		0.00500	1	07/01/2021 14:37	WG1697902
n-Propylbenzene	ND		0.00100	1	07/01/2021 14:37	WG1697902
Styrene	ND		0.00100	1	07/01/2021 14:37	WG1697902
1,1,1,2-Tetrachloroethane	ND		0.00100	1	07/01/2021 14:37	WG1697902
1,1,2,2-Tetrachloroethane	ND		0.00100	1	07/01/2021 14:37	WG1697902
1,1,2-Trichlorotrifluoroethane	ND		0.00100	1	07/01/2021 14:37	WG1697902
Tetrachloroethene	0.0280		0.00100	1	07/01/2021 14:37	WG1697902
Toluene	ND		0.00100	1	07/01/2021 14:37	WG1697902
1,2,3-Trichlorobenzene	ND		0.00100	1	07/01/2021 14:37	WG1697902
1,2,4-Trichlorobenzene	ND		0.00100	1	07/01/2021 14:37	WG1697902

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

DUPLICATE

SAMPLE RESULTS - 14

Collected date/time: 06/25/21 00:00

L1371546

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		0.00100	1	07/01/2021 14:37	WG1697902
1,1,2-Trichloroethane	ND		0.00100	1	07/01/2021 14:37	WG1697902
Trichloroethene	0.00442		0.00100	1	07/01/2021 14:37	WG1697902
Trichlorofluoromethane	ND		0.00500	1	07/01/2021 14:37	WG1697902
1,2,3-Trichloropropane	ND		0.00250	1	07/01/2021 14:37	WG1697902
1,2,4-Trimethylbenzene	ND		0.00100	1	07/01/2021 14:37	WG1697902
1,2,3-Trimethylbenzene	ND		0.00100	1	07/01/2021 14:37	WG1697902
1,3,5-Trimethylbenzene	ND		0.00100	1	07/01/2021 14:37	WG1697902
Vinyl chloride	ND		0.00100	1	07/01/2021 14:37	WG1697902
Xylenes, Total	ND		0.00300	1	07/01/2021 14:37	WG1697902
(S) Toluene-d8	106		80.0-120		07/01/2021 14:37	WG1697902
(S) 4-Bromofluorobenzene	97.2		77.0-126		07/01/2021 14:37	WG1697902
(S) 1,2-Dichloroethane-d4	101		70.0-130		07/01/2021 14:37	WG1697902

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Method Blank (MB)

(MB) R3674645-2 07/01/21 07:13

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0113	0.0500
Acrolein	U		0.00254	0.0500
Acrylonitrile	U		0.000671	0.0100
Benzene	U		0.0000941	0.00100
Bromobenzene	U		0.000118	0.00100
Bromodichloromethane	U		0.000136	0.00100
Bromoform	U		0.000129	0.00100
Bromomethane	U		0.000605	0.00500
n-Butylbenzene	U		0.000157	0.00100
sec-Butylbenzene	U		0.000125	0.00100
tert-Butylbenzene	U		0.000127	0.00100
Carbon tetrachloride	U		0.000128	0.00100
Chlorobenzene	U		0.000116	0.00100
Chlorodibromomethane	U		0.000140	0.00100
Chloroethane	U		0.000192	0.00500
Chloroform	U		0.000111	0.00500
Chloromethane	U		0.000960	0.00250
2-Chlorotoluene	U		0.000106	0.00100
4-Chlorotoluene	U		0.000114	0.00100
1,2-Dibromo-3-Chloropropane	U		0.000276	0.00500
1,2-Dibromoethane	U		0.000126	0.00100
Dibromomethane	U		0.000122	0.00100
1,2-Dichlorobenzene	U		0.000107	0.00100
1,3-Dichlorobenzene	U		0.000110	0.00100
1,4-Dichlorobenzene	U		0.000120	0.00100
Dichlorodifluoromethane	U		0.000374	0.00500
1,1-Dichloroethane	U		0.000100	0.00100
1,2-Dichloroethane	U		0.0000819	0.00100
1,1-Dichloroethene	U		0.000188	0.00100
cis-1,2-Dichloroethene	U		0.000126	0.00100
trans-1,2-Dichloroethene	U		0.000149	0.00100
1,2-Dichloropropane	U		0.000149	0.00100
1,1-Dichloropropene	U		0.000142	0.00100
1,3-Dichloropropane	U		0.000110	0.00100
cis-1,3-Dichloropropene	U		0.000111	0.00100
trans-1,3-Dichloropropene	U		0.000118	0.00100
2,2-Dichloropropane	U		0.000161	0.00100
Di-isopropyl ether	U		0.000105	0.00100
Ethylbenzene	U		0.000137	0.00100
Hexachloro-1,3-butadiene	U		0.000337	0.00100

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

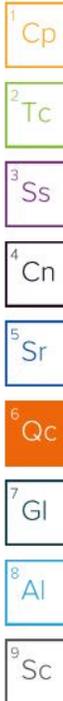
⁸ Al

⁹ Sc

Method Blank (MB)

(MB) R3674645-2 07/01/21 07:13

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Isopropylbenzene	U		0.000105	0.00100
p-Isopropyltoluene	U		0.000120	0.00100
2-Butanone (MEK)	U		0.00119	0.0100
Methylene Chloride	U		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100
Methyl tert-butyl ether	U		0.000101	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.0000993	0.00100
Styrene	U		0.000118	0.00100
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100
Tetrachloroethene	U		0.000300	0.00100
Toluene	U		0.000278	0.00100
1,1,2-Trichlorotrifluoroethane	U		0.000180	0.00100
1,2,3-Trichlorobenzene	U		0.000230	0.00100
1,2,4-Trichlorobenzene	U		0.000481	0.00100
1,1,1-Trichloroethane	U		0.000149	0.00100
1,1,2-Trichloroethane	U		0.000158	0.00100
Trichloroethene	U		0.000190	0.00100
Trichlorofluoromethane	U		0.000160	0.00500
1,2,3-Trichloropropane	U		0.000237	0.00250
1,2,3-Trimethylbenzene	U		0.000104	0.00100
1,2,4-Trimethylbenzene	U		0.000322	0.00100
1,3,5-Trimethylbenzene	U		0.000104	0.00100
Vinyl chloride	U		0.000234	0.00100
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	105			80.0-120
(S) 4-Bromofluorobenzene	98.8			77.0-126
(S) 1,2-Dichloroethane-d4	99.6			70.0-130



Laboratory Control Sample (LCS)

(LCS) R3674645-1 07/01/21 05:51

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.0250	0.0265	106	19.0-160	
Acrolein	0.0250	0.0128	51.2	10.0-160	
Acrylonitrile	0.0250	0.0233	93.2	55.0-149	
Benzene	0.00500	0.00520	104	70.0-123	

Laboratory Control Sample (LCS)

(LCS) R3674645-1 07/01/21 05:51

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Bromobenzene	0.00500	0.00466	93.2	73.0-121	
Bromodichloromethane	0.00500	0.00533	107	75.0-120	
Bromoform	0.00500	0.00544	109	68.0-132	
Bromomethane	0.00500	0.00661	132	10.0-160	
n-Butylbenzene	0.00500	0.00551	110	73.0-125	
sec-Butylbenzene	0.00500	0.00521	104	75.0-125	
tert-Butylbenzene	0.00500	0.00503	101	76.0-124	
Carbon tetrachloride	0.00500	0.00519	104	68.0-126	
Chlorobenzene	0.00500	0.00577	115	80.0-121	
Chlorodibromomethane	0.00500	0.00515	103	77.0-125	
Chloroethane	0.00500	0.00557	111	47.0-150	
Chloroform	0.00500	0.00566	113	73.0-120	
Chloromethane	0.00500	0.00500	100	41.0-142	
2-Chlorotoluene	0.00500	0.00501	100	76.0-123	
4-Chlorotoluene	0.00500	0.00513	103	75.0-122	
1,2-Dibromo-3-Chloropropane	0.00500	0.00515	103	58.0-134	
1,2-Dibromoethane	0.00500	0.00533	107	80.0-122	
Dibromomethane	0.00500	0.00518	104	80.0-120	
1,2-Dichlorobenzene	0.00500	0.00569	114	79.0-121	
1,3-Dichlorobenzene	0.00500	0.00571	114	79.0-120	
1,4-Dichlorobenzene	0.00500	0.00515	103	79.0-120	
Dichlorodifluoromethane	0.00500	0.00559	112	51.0-149	
1,1-Dichloroethane	0.00500	0.00549	110	70.0-126	
1,2-Dichloroethane	0.00500	0.00552	110	70.0-128	
1,1-Dichloroethene	0.00500	0.00506	101	71.0-124	
cis-1,2-Dichloroethene	0.00500	0.00561	112	73.0-120	
trans-1,2-Dichloroethene	0.00500	0.00535	107	73.0-120	
1,2-Dichloropropane	0.00500	0.00533	107	77.0-125	
1,1-Dichloropropene	0.00500	0.00525	105	74.0-126	
1,3-Dichloropropane	0.00500	0.00527	105	80.0-120	
cis-1,3-Dichloropropene	0.00500	0.00529	106	80.0-123	
trans-1,3-Dichloropropene	0.00500	0.00486	97.2	78.0-124	
2,2-Dichloropropane	0.00500	0.00522	104	58.0-130	
Di-isopropyl ether	0.00500	0.00498	99.6	58.0-138	
Ethylbenzene	0.00500	0.00563	113	79.0-123	
Hexachloro-1,3-butadiene	0.00500	0.00514	103	54.0-138	
Isopropylbenzene	0.00500	0.00531	106	76.0-127	
p-Isopropyltoluene	0.00500	0.00516	103	76.0-125	
2-Butanone (MEK)	0.0250	0.0231	92.4	44.0-160	
Methylene Chloride	0.00500	0.00528	106	67.0-120	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R3674645-1 07/01/21 05:51

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
4-Methyl-2-pentanone (MIBK)	0.0250	0.0240	96.0	68.0-142	
Methyl tert-butyl ether	0.00500	0.00513	103	68.0-125	
Naphthalene	0.00500	0.00540	108	54.0-135	
n-Propylbenzene	0.00500	0.00483	96.6	77.0-124	
Styrene	0.00500	0.00497	99.4	73.0-130	
1,1,1,2-Tetrachloroethane	0.00500	0.00557	111	75.0-125	
1,1,2,2-Tetrachloroethane	0.00500	0.00478	95.6	65.0-130	
Tetrachloroethene	0.00500	0.00579	116	72.0-132	
Toluene	0.00500	0.00549	110	79.0-120	
1,1,2-Trichlorotrifluoroethane	0.00500	0.00573	115	69.0-132	
1,2,3-Trichlorobenzene	0.00500	0.00513	103	50.0-138	
1,2,4-Trichlorobenzene	0.00500	0.00538	108	57.0-137	
1,1,1-Trichloroethane	0.00500	0.00536	107	73.0-124	
1,1,2-Trichloroethane	0.00500	0.00535	107	80.0-120	
Trichloroethene	0.00500	0.00610	122	78.0-124	
Trichlorofluoromethane	0.00500	0.00580	116	59.0-147	
1,2,3-Trichloropropane	0.00500	0.00510	102	73.0-130	
1,2,3-Trimethylbenzene	0.00500	0.00511	102	77.0-120	
1,2,4-Trimethylbenzene	0.00500	0.00533	107	76.0-121	
1,3,5-Trimethylbenzene	0.00500	0.00510	102	76.0-122	
Vinyl chloride	0.00500	0.00530	106	67.0-131	
Xylenes, Total	0.0150	0.0168	112	79.0-123	
<i>(S) Toluene-d8</i>			104	80.0-120	
<i>(S) 4-Bromofluorobenzene</i>			101	77.0-126	
<i>(S) 1,2-Dichloroethane-d4</i>			104	70.0-130	

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

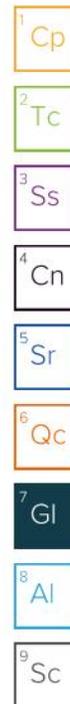
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier Description

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.



ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



APPENDIX D



Alabama Department of Environmental Management
adem.alabama.gov

1400 Coliseum Blvd. 36110-2400 ■ Post Office Box 301463
Montgomery, Alabama 36130-1463
(334) 271-7700 ■ FAX (334) 271-7950

July 9, 2021

Delivered via email to Ms. Meghan A. DiGiorgio
Terracon Consultants, Inc.
2147 Riverchase Office Road
Birmingham, Alabama 35244

RE: Contained-In/Contained-Out Determination Request
Aladdin Cleaners & Laundry purged groundwater Montclair
Birmingham, Alabama

Dear Ms. DiGiorgio:

On July 8, 2021, the Department received a contained-in/contained-out determination request for the purge water generated during the on-site monitoring well sampling event at the Montclair location. The Department has completed a review of these documents and determined that the drum of contaminated waste exceed the EPA's regional screening level of 0.005 mg/L for both tetrachloroethene and trichloroethylene.

Therefore, based upon the aforementioned analytical results, the 55-gallon drum of purge water is deemed to contain a F002 hazardous waste. The purge water waste cannot be disposed of in a Subtitle D Landfill and should be managed as F002 listed hazardous waste.

If additional waste is generated as a result of future events, a separate contained-in/contained-out request must be submitted to the Department with supporting documentation. If any questions or comments should arise concerning this matter, please contact Ms. Cala Obenauf at 334-271-7824.

Sincerely,

A handwritten signature in black ink that reads "Brent A. Watson".

Brent A. Watson, Chief
Compliance and Enforcement Section
Industrial Hazardous Waste Branch
Land Division

BAW/cjo



HERITAGE - CRYSTAL CLEAN - BILL OF LADING

FCC Use: _____ Loc: **BIRMINGHAM** Route: _____ Page 1 of 1
 Doc #: _____ - _____ PB: 191223 WO #:

Shipper's Name And Mailing Address ALAND CLEANERS 2819 Cahaba ROAD Mountain Brook AL 35203 Generator Phone: _____		Physical Address _____	Generator EPA ID _____ Generator State ID _____
Transporter 1 Company Name HERITAGE-CRYSTAL CLEAN, LLC	Transp 1 EPA Id ILR000130062	Transp 1 State Id _____	Transp 1 Phone (847) 636-5670
Transporter 2 Company Name _____	Transp 2 EPA Id _____	Transp 2 State Id _____	Transp 2 Phone _____
Transporter 3 Company Name _____	Transp 3 EPA Id _____	Transp 3 State Id _____	Transp 3 Phone _____
Receiving Facility HERITAGE-CRYSTAL CLEAN, LLC 6140 PURDIE DRIVE ATLANTA, GA 30335	Facility EPA Id ILR000130062 24Hr Emergency Phn: (800) 424-6556	Facility State Id _____	Facility Phone (404) 696-2024

HA	Waste Shipping Description and DOT Description (as applicable)	Container No.	Type	Total Qty	Unit Wt/vol
A	RG, UNDRWASTE TOXIC LIQUID, ORGANIC N.O.S. 6.1 PBT (TETRACHLOROETHYLENE) FOOD LIG 153	1	DM	50	G
B					
C					
D					

Special Handling Instructions, Additional Information and Handling Codes (as Applicable)

316810-1

SHIPPER'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled, placarded, and are in all respects in proper condition for transport according to applicable (international and national) governmental regulations.

Printed/Typed Name: <u>CHRIS LEISANG</u> Signature: _____ Date: _____	Printed/Typed Name: _____ Signature: _____ Date: _____
Transporter 1 Acknowledgement of Receipt Materials: Printed/Typed Name: <u>ROBERT CARL SIK</u> Signature: _____ Date: <u>8-9-21</u>	Transporter 2 Acknowledgement of Receipt Materials: Printed/Typed Name: _____ Signature: _____ Date: _____
Transporter 3 Acknowledgement of Receipt Materials: Printed/Typed Name: _____ Signature: _____ Date: _____	

Additional Description / Discrepancies

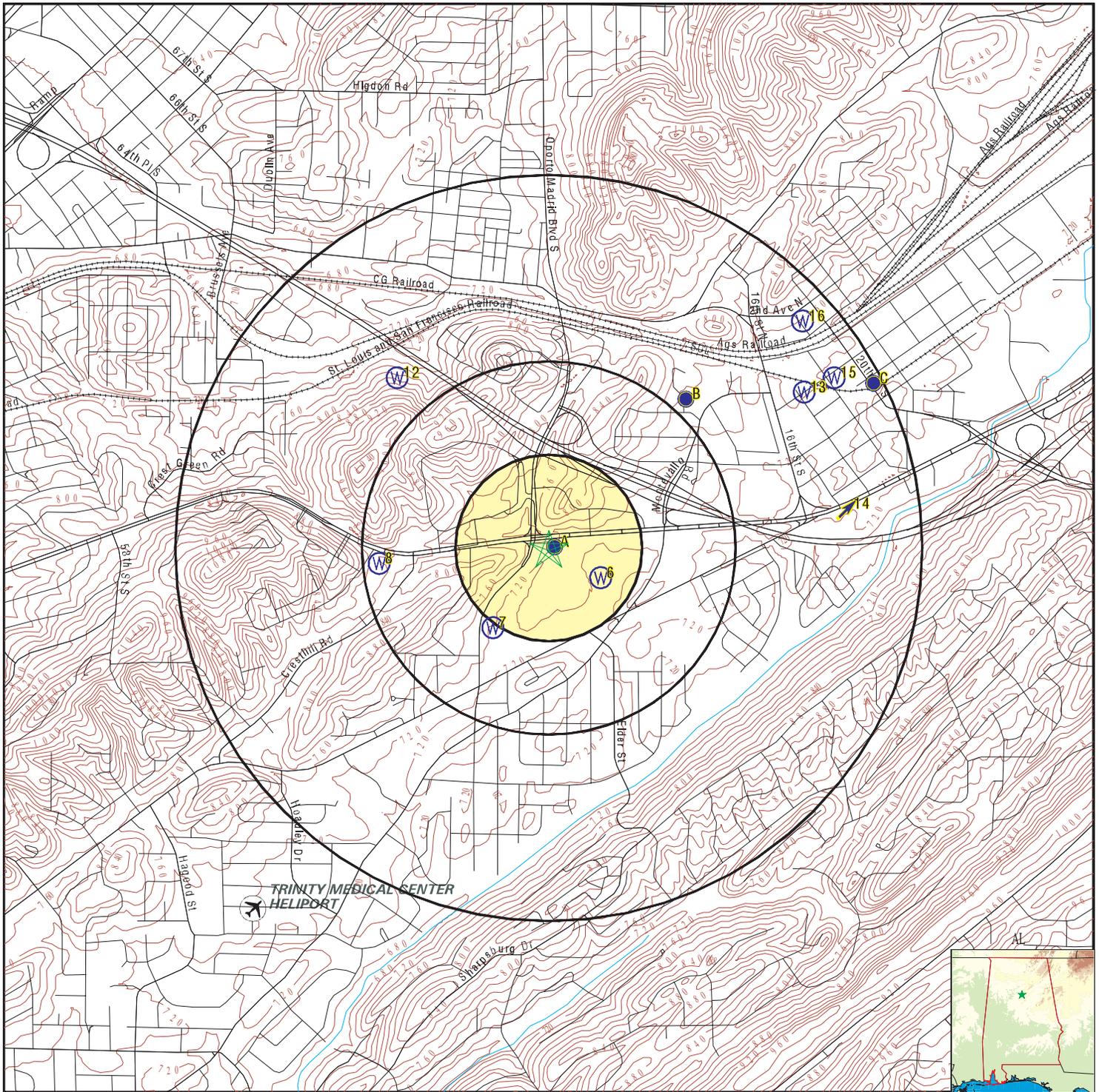
Facility Owner or Operator: _____
 Certification of receipt of waste materials covered by this bill of lading.
 Printed/Typed Name: _____ Signature: _____ Date: _____

APPENDIX B

**WATER WELL INFORMATION &
ANNUAL DRINKING WATER QUALITY REPORT (IRONDALE)**



PHYSICAL SETTING SOURCE MAP - 6352605.2s



- County Boundary
- Major Roads
- Contour Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons



- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Oil, gas or related wells



SITE NAME: Olive Garden Crestwood
 ADDRESS: 7701 Crestwood Boulevard
 Birmingham AL 35210
 LAT/LONG: 33.530151 / 86.720457

CLIENT: Bullock Environmental, LLC
 CONTACT: Mary Reid Prince
 INQUIRY #: 6352605.2s
 DATE: February 02, 2021 9:20 am

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

A1
ESE
0 - 1/8 Mile
Higher

FED USGS USGS4000008356

Organization ID:	USGS-AL	Organization Name:	USGS Alabama Water Science Center
Monitor Location:	W 9 EASTWOOD MALL #2-USGS 333148086431302		
Type:	Well	Description:	EASTWOOD MALL WELL # 2
HUC:	03160111	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Units:	Not Reported	Aquifer:	Not Reported
Formation Type:	Bangor Limestone	Aquifer Type:	Confined single aquifer
Construction Date:	19591200	Well Depth:	90
Well Depth Units:	ft	Well Hole Depth:	90
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	2	Level reading date:	1968
Feet below surface:	63	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	1960	Feet below surface:	20
Feet to sea level:	Not Reported	Note:	Not Reported

A2
ESE
0 - 1/8 Mile
Higher

FED USGS USGS4000008355

Organization ID:	USGS-AL	Organization Name:	USGS Alabama Water Science Center
Monitor Location:	W 8 EASTWOOD MALL #1-USGS 333148086431301		
Type:	Well	Description:	EASTWOOD MALL WELL # 1.
HUC:	03160111	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Units:	Not Reported	Aquifer:	Not Reported
Formation Type:	Bangor Limestone	Aquifer Type:	Confined single aquifer
Construction Date:	Not Reported	Well Depth:	80
Well Depth Units:	ft	Well Hole Depth:	80
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	3	Level reading date:	1968-08-27
Feet below surface:	68.3	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	1968-07-02	Feet below surface:	55.3
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1960	Feet below surface:	21
Feet to sea level:	Not Reported	Note:	Not Reported

A3
ESE
0 - 1/8 Mile
Higher

FED USGS USGS4000008357

Organization ID:	USGS-AL	Organization Name:	USGS Alabama Water Science Center
Monitor Location:	W 10 EASTWOOD MALL #3-USGS 333148086431303		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Type:	Well	Description:	EASTWOOD MALL WELL # 3
HUC:	03160111	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Units:	Not Reported	Aquifer:	Not Reported
Formation Type:	Bangor Limestone	Aquifer Type:	Confined single aquifer
Construction Date:	19591200	Well Depth:	86
Well Depth Units:	ft	Well Hole Depth:	86
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1960
Feet below surface:	16	Feet to sea level:	Not Reported
Note:	Not Reported		

**A4
West
0 - 1/8 Mile
Higher**

FED USGS USGS4000008358

Organization ID:	USGS-AL	Organization Name:	USGS Alabama Water Science Center
Monitor Location:	W 29 EASTWOOD MALL #5	Type:	Well
Description:	EASTWOOD MALL # 5. (UNUSED WELL)		
HUC:	03160111	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Units:	Not Reported	Aquifer:	Not Reported
Formation Type:	Bangor Limestone	Aquifer Type:	Confined single aquifer
Construction Date:	19700101	Well Depth:	462
Well Depth Units:	ft	Well Hole Depth:	462
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	6	Level reading date:	1980-11-17
Feet below surface:	18.57	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	1978-11-22	Feet below surface:	9.40
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1977-11-01	Feet below surface:	8.96
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1977-04-22	Feet below surface:	9.47
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1976-11-03	Feet below surface:	10.10
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1975-06-05	Feet below surface:	7.15
Feet to sea level:	Not Reported	Note:	Not Reported

**A5
ENE
0 - 1/8 Mile
Lower**

Site ID:	1474
Groundwater Flow:	Varies
Shallowest Water Table Depth:	4.86
Deepest Water Table Depth:	8.82
Average Water Table Depth:	Not Reported
Date:	10/22/1998

AQUIFLOW 33439

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

6
ESE
1/8 - 1/4 Mile
Lower

FED USGS USGS40000008361

Organization ID:	USGS-AL	Organization Name:	USGS Alabama Water Science Center
Monitor Location:	W 11 EASTWOOD MALL #4-USGS 333150086424401	Type:	Well
Type:	Well	Description:	EASTWOOD MALL WELL # 4.
HUC:	03160111	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Units:	Not Reported	Aquifer:	Not Reported
Formation Type:	Bangor Limestone	Aquifer Type:	Confined single aquifer
Construction Date:	19651000	Well Depth:	135
Well Depth Units:	ft	Well Hole Depth:	135
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	2	Level reading date:	1968-08-27
Feet below surface:	30.40	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	1965-10-28	Feet below surface:	28.5
Feet to sea level:	Not Reported	Note:	Not Reported

7
SW
1/4 - 1/2 Mile
Lower

FED USGS USGS40000008340

Organization ID:	USGS-AL	Organization Name:	USGS Alabama Water Science Center
Monitor Location:	W 23 EASTWOOD MALL	Type:	Well
Description:	USED FOR AIR CONDITIONING	HUC:	03160111
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Units:	Not Reported
Aquifer:	Not Reported	Formation Type:	Fort Payne Chert/formation
Aquifer Type:	Confined single aquifer	Construction Date:	19700000
Well Depth:	297	Well Depth Units:	ft
Well Hole Depth:	297	Well Hole Depth Units:	ft

Ground water levels,Number of Measurements:	1	Level reading date:	1977-03-23
Feet below surface:	73	Feet to sea level:	Not Reported
Note:	Not Reported		

8
West
1/4 - 1/2 Mile
Higher

FED USGS USGS40000008351

Organization ID:	USGS-AL	Organization Name:	USGS Alabama Water Science Center
Monitor Location:	W 25	Type:	Well
Description:	GULAS RESTAURANT (WELL DEEPEND TO 118 AFTER 1952)	Drainage Area:	Not Reported
HUC:	03160111	Contrib Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Aquifer:	Valley and Ridge aquifers
Contrib Drainage Area Units:	Not Reported	Aquifer Type:	Confined single aquifer
Formation Type:	Red Mountain Formation	Well Depth:	118
Construction Date:	19510601	Well Hole Depth:	118
Well Depth Units:	ft		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well Hole Depth Units: ft

**B9
NE
1/2 - 1 Mile
Higher**

FED USGS USGS4000008386

Organization ID:	USGS-AL	Organization Name:	USGS Alabama Water Science Center
Monitor Location:	W 28 IRONDALE PWS # 6	Type:	Well
Description:	CITY OF IRONDALE PWS # 6-SWIM-CLUB WELL XXX.		
HUC:	03160111	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Not Reported
Formation Type:	Bangor Limestone	Aquifer Type:	Confined single aquifer
Construction Date:	19750701	Well Depth:	300
Well Depth Units:	ft	Well Hole Depth:	300
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1977-02-07
Feet below surface:	108.58	Feet to sea level:	Not Reported
Note:	Not Reported		

**B10
NE
1/2 - 1 Mile
Higher**

AL WELLS AL00000499

Well ID:	751	SE ID:	5
System Name:	IRONDALE WATER SYSTEM	Source:	PLANT
GPS Update:	3/10/1995		

**B11
NE
1/2 - 1 Mile
Higher**

AL WELLS AL00000504

Well ID:	751	SE ID:	6
System Name:	IRONDALE WATER SYSTEM	Source:	WELL 6
GPS Update:	8/20/1998		

**12
NW
1/2 - 1 Mile
Higher**

FED USGS USGS4000008391

Organization ID:	USGS-AL	Organization Name:	USGS Alabama Water Science Center
Monitor Location:	W 12-USGS 333212086433901	Type:	Well
Description:	Not Reported	HUC:	03160111
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Bangor Limestone
Aquifer Type:	Confined single aquifer	Construction Date:	19480000
Well Depth:	126	Well Depth Units:	ft
Well Hole Depth:	126	Well Hole Depth Units:	ft

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

13
ENE
1/2 - 1 Mile
Higher

FED USGS USGS40000008397

Organization ID:	USGS-AL	Organization Name:	USGS Alabama Water Science Center
Monitor Location:	W 16 IRONDALE PWS # 5-USGS 333220086423101		
Type:	Well	Description:	IRONDALE PWS # 5.
HUC:	03150202	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Units:	Not Reported	Aquifer:	Not Reported
Formation Type:	Tuscumbia Limestone	Aquifer Type:	Confined single aquifer
Construction Date:	19750801	Well Depth:	303
Well Depth Units:	ft	Well Hole Depth:	303
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1976-01-19
Feet below surface:	94.20	Feet to sea level:	Not Reported
Note:	Not Reported		

14
East
1/2 - 1 Mile
Lower

AQUIFLOW 33706

Site ID:	15174
Groundwater Flow:	NE
Shallowest Water Table Depth:	Not Reported
Deepest Water Table Depth:	Not Reported
Average Water Table Depth:	Not Reported
Date:	08/1991

15
ENE
1/2 - 1 Mile
Higher

FED USGS USGS40000008392

Organization ID:	USGS-AL	Organization Name:	USGS Alabama Water Science Center
Monitor Location:	W 7 IRONDALE PWS # 2-USGS 333216086421301		
Type:	Well	Description:	CITY OF IRONDALE PWS. WELL
HUC:	03160111	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Units:	Not Reported	Aquifer:	Not Reported
Formation Type:	Bangor Limestone	Aquifer Type:	Confined single aquifer
Construction Date:	19540700	Well Depth:	312
Well Depth Units:	ft	Well Hole Depth:	312
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	2	Level reading date:	1954-09-06
Feet below surface:	19.00	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	1954-07	Feet below surface:	20
Feet to sea level:	Not Reported	Note:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

16
NE
1/2 - 1 Mile
Higher

AL WELLS AL00000503

Well ID:	751	SE ID:	4
System Name:	IRONDALE WATER SYSTEM	Source:	WELL 5
GPS Update:	3/10/1995		

C17
ENE
1/2 - 1 Mile
Lower

AQUIFLOW 33667

Site ID:	Not Reported
Groundwater Flow:	Not Reported
Shallowest Water Table Depth:	6
Deepest Water Table Depth:	14
Average Water Table Depth:	Not Reported
Date:	06/20/1995

C18
ENE
1/2 - 1 Mile
Lower

FED USGS USGS40000008387

Organization ID:	USGS-AL	Organization Name:	USGS Alabama Water Science Center
Monitor Location:	W 6-USGS 333211086421901	Type:	Well
Description:	IRONDALE ICE CO.	HUC:	03160111
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Units:	Not Reported
Aquifer:	Not Reported	Formation Type:	Bangor Limestone
Aquifer Type:	Confined single aquifer	Construction Date:	19490000
Well Depth:	210	Well Depth Units:	ft
Well Hole Depth:	210	Well Hole Depth Units:	ft

1G
ENE
1/2 - 1 Mile
Lower

AQUIFLOW 33667

Site ID:	Not Reported
Groundwater Flow:	Not Reported
Shallowest Water Table Depth:	6
Deepest Water Table Depth:	14
Average Water Table Depth:	Not Reported
Date:	06/20/1995

2G
East
1/2 - 1 Mile
Lower

AQUIFLOW 33706

Site ID:	15174
Groundwater Flow:	NE
Shallowest Water Table Depth:	Not Reported
Deepest Water Table Depth:	Not Reported
Average Water Table Depth:	Not Reported
Date:	08/1991

3G
ENE
0 - 1/8 Mile
Lower

AQUIFLOW 33439

Site ID:	1474
Groundwater Flow:	Varies
Shallowest Water Table Depth:	4.86
Deepest Water Table Depth:	8.82
Average Water Table Depth:	Not Reported
Date:	10/22/1998

ANNUAL DRINKING WATER QUALITY REPORT JANUARY-DECEMBER 2023

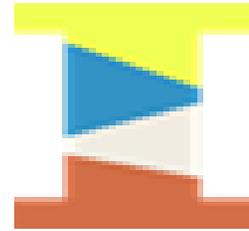
IRONDALE WATER SYSTEM

CITY OF IRONDALE

IS MY WATER SAFE?

Last year, your tap water met all U.S. Environmental Protection Agency (EPA) and Alabama Department of Environmental Management (ADEM) drinking water health requirements.

The City of Irondale has a total of 4 wells that serve the city. We have 4 storage tanks with the capacity of 4,105,000 gallons of water. The water system pumps around 32 million gallons of water per month and serves an average of 3,700 customers.



**James D. Stewart, Jr. , Mayor/
Superintendent**

John London, Council Member

Robert Box, Council Member

Aaron Sims, Council Member

David Spivey, Council Member

Cindy Cuellar, Council Member

Important Drinking Water Definitions:

Disinfection Byproducts - contaminants formed when chlorine is used as a disinfectant.

Non-Detects (ND) - laboratory analysis indicates that the constituent is not present.

Parts per million (ppm) or Milligrams per liter (mg/l) - one part per million corresponds to one minute in two years or a single penny in \$10,000.

Parts per billion (ppb) or Micrograms per liter - one part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.

Parts per trillion (ppt) or Nanograms per liter (nanograms/l) - one part per trillion corresponds to one minute in 2,000,000 years or a single penny in \$10,000,000,000.

Parts per quadrillion (ppq) or Picograms per liter (picograms/l) - one part per quadrillion corresponds to one minute in 2,000,000,000 years or a single penny in \$10,000,000,000,000.

Picocuries per liter (pCi/L) - picocuries per liter is a measure of the radioactivity in water.

Millirems per year (mrem/yr) - measure of radiation absorbed by the body.

Nephelometric Turbidity Unit (NTU) - nephelometric turbidity unit is a measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

Variations & Exemptions - ADEM or EPA permission not to meet an MCL or a treatment technique under certain conditions.

Maximum Contaminant Level Goal or MCLG - The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

Maximum Contaminant Level or MCL - The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

Maximum Residual Disinfectant Level Goal or MRDLG - The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

Maximum Residual Disinfectant Level or MRDL - The highest level of a disinfectant allowed in drinking water. There is convincing evidence that the addition of a disinfectant is necessary for control of microbial contaminants.

Treatment Technique - A required process intended to reduce the level of a contaminant in drinking water.

Action Level - The concentration of a contaminant that triggers treatment or other requirements a water system must follow.

Unregulated contaminants - are those for which EPA has not established drinking water standards. The purpose of unregulated contaminant monitoring is to assist EPA in determining the occurrence of unregulated contaminants in drinking water and whether future regulation is warranted.

The Irondale Water System routinely monitors for contaminants in your drinking water according to federal and state laws. This table shows the results of our monitoring for the period of January 1st to December 31st, 2023. All drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline (800-426-4791).

Irondale Water System utilizes a Bacteriological Monitoring Plan, and a Cross Connection Policy is in place to ensure the best drinking water for our customers. The Irondale Water System has completed a Source Water Assessment Plan which is available for review at our office. A Source Water Assessment Plan provides information about potential sources of contamination and is set up to help protect our multiple water sources.

Please attend the regularly scheduled Council Meetings!

Every 1st & 3rd Tuesday of each month at 6:00 p.m. at the Irondale City Hall located at 101 20th Street South Irondale, Alabama 35210.

Hope to See You There!

Table of Primary Contaminants

At high levels some primary contaminants are known to pose a health risks to humans. This table provides a quick glance of any primary contaminant detections.

CONTAMINANT	MCL	AMOUNT DETECTED	CONTAMINANT	MCL	AMOUNT DETECTED	CONTAMINANT	MCL	AMOUNT DETECTED
Bacteriological			Selenium(ppb)	50	ND	Epichlorohydrin	TT	ND
Total Coliform Bacteria	< 5%	ND	Thallium(ppb)	2	ND	Ethylbenzene(ppb)	700	ND
Turbidity	TT	0.12	Organic Chemicals			Ethylene dibromide(ppt)	50	ND
Fecal Coliform & E. coli	0	ND	Acrylamide	TT	ND	Glyphosate(ppb)	700	ND
Radiological			Alachlor(ppb)	2	ND	Haloacetic Acids(ppb)	60	ND
Beta/Photon emitters (mrem/yr)	4	ND	Atrazine(ppb)	3	ND	Heptachlor(ppt)	400	ND
Alpha emitters (pci/l)	15	3.40	Benzene(ppb)	5	ND	Heptachlor epoxide(ppt)	200	ND
Combined radium (pci/l)	5	0.70	Benzo(a)pyrene[PHAs](ppt)	200	ND	Hexachlorobenzene(ppb)	1	ND
Uranium(pci/l)	30	ND	Carbofuran(ppb)	40	ND	Hexachlorocyclopentadiene(ppb)	50	ND
Inorganic			Carbon Tetrachloride(ppb)	5	ND	Lindane(ppt)	200	ND
Antimony (ppb)	6	ND	Chlordane(ppb)	2	ND	Methoxychlor(ppb)	40	ND
Arsenic (ppb)	10	ND	Chlorobenzene(ppb)	100	ND	Oxamyl [Vydate](ppb)	200	ND
Asbestos (MFL)	7	ND	2,4-D	70	ND	Pentachlorophenol(ppb)	1	ND
Barium (ppm)	2	0.02	Dalapon(ppb)	200	ND	Picloram(ppb)	500	ND
Beryllium (ppb)	4	ND	Dibromochloropropane(ppt)	200	ND	PCBs(ppt)	500	ND
Bromate(ppb)	10	ND	0-Dichlorobenzene(ppb)	600	ND	Simazine(ppb)	4	ND
Cadmium (ppb)	5	ND	p-Dichlorobenzene(ppb)	75	ND	Styrene(ppb)	100	ND
Chloramines(ppm)	4	ND	1,2-Dichloroethane(ppb)	5	ND	Tetrachloroethylene(ppb)	5	0.90
Chlorine(ppm)	4	1.90-2.03	1,1-Dichloroethylene(ppb)	7	ND	Toluene(ppm)	1	ND
Chlorine dioxide(ppb)	800	ND	Cis-1,2-Dichloroethylene(ppb)	70	0.90	TOC	TT	9.20
Chlorite(ppm)	1	ND	trans-1,2-Dichloroethylene(ppb)	100	ND	TTHM(ppb)	80	17.70
Chromium (ppb)	100	0.01	Dichloromethane(ppb)	5	ND	Toxaphene(ppb)	3	ND
Copper (ppm)	AL=1.3	1.09	1,2-Dichloropropane(ppb)	5	ND	2,4,5-TP (Silvex)(ppb)	50	ND
Cyanide (ppb)	200	ND	Di-(2-ethylhexyl)adipate(ppb)	400	ND	1,2,4-Trichlorobenzene(ppb)	70	ND
Fluoride (ppm)	4	ND	Di(2-ethylhexyl)phthalates(ppb)	6	ND	1,1,1-Trichloroethane(ppb)	200	ND
Lead (ppb)	AL=15	0.005	Dinoseb(ppb)	7	ND	1,1,2-Trichloroethane(ppb)	5	ND
Mercury (ppb)	2	ND	Dioxin[2,3,7,8-TCDD](ppq)	30	ND	Trichloroethylene(ppb)	5	ND
Nitrate (ppm)	10	0.48	Diquat(ppb)	20	ND	Vinyl Chloride(ppb)	2	ND
Nitrite (ppm)	1	ND	Endothall(ppb)	100	ND	Xylenes(ppm)	10	ND
Total Nitrate & Nitrite	10	0.48	Endrin(ppb)	2	ND			

Table of Secondary and Unregulated Contaminants

Secondary Drinking Water Standards are guidelines regulating contaminants that may cause cosmetic effects (such as skin or tooth discoloration) or aesthetic effects (such as taste, odor, or color) in drinking water. ADEM has Secondary Drinking Water Standards established in state regulations applicable to water systems required to monitor for the various components. **Unregulated contaminants** are those for which EPA has not established drinking water standards. The purpose of unregulated contaminant monitoring is to assist EPA in determining the occurrence of unregulated contaminants in drinking water and whether future regulation is warranted.

CONTAMINANT	MCL	DETECT	CONTAMINANT	MCL	DETECT	CONTAMINANT	MCL	DETECT
Secondary								
Aluminum	0.2	..004	Foaming Agents	0.5	ND	Silver	7	ND
Chloride	250	11.00	Iron	0.3	ND	Sulfate	70	16.2
Color (PCU)	15	ND	Magnesium	75	2.73	Total Dissolved Solids	500	212
Copper	1	0.013	Odor (T.O.N.)	5	ND	Zinc	5	ND
Special								
Calcium	N/A	66.50	pH (SU)	N/A	7.21	Temperature (*C)	N/A	ND
Carbon Dioxide	N/A	71	Sodium	N/A	2.69	Total Alkalinity	N/A	180
Manganese	0.05	ND	Specific Conductance (umhos)	<500	330.00	Total Hardness (as CaCO3)	N/A	177
Unregulated								
1,1 - Dichloropropene	N/A	ND	Bromobenzene	N/A	ND	Hexachlorobutadiene	N/A	ND
1,1,2,2-Tetrachloroethane	N/A	ND	Bromochloromethane	N/A	ND	Isopropylbenzene	N/A	ND
1,1-Dichloroethane	N/A	ND	Bromodichloromethane	N/A	0.01	M-Dichlorobenzene	N/A	ND
TCE - Trichloroethene	N/A	0.00	Bromoform	N/A	ND	Methomyl	N/A	ND
1,2,3 - Trichloropropane	N/A	ND	Bromomethane	N/A	ND	Metolachlor	N/A	ND
1,2,4 - Trimethylbenzene	N/A	ND	Butachlor	N/A	ND	Metribuzin	N/A	ND
1,2,4-Trichlorobenzene	N/A	ND	Carbaryl	N/A	ND	MTBE	N/A	ND
1,3 - Dichloropropane	N/A	ND	Chloroethane	N/A	ND	N - Butylbenzene	N/A	ND
1,3 - Dichloropropene	N/A	ND	Chlorodibromomethane	N/A	ND	Naphthalene	N/A	ND
1,3,5 - Trimethylbenzene	N/A	ND	Chloroform	N/A	0.02	N-Propylbenzene	N/A	ND
2,2 - Dichloropropane	N/A	ND	Chloromethane	N/A	ND	O-Chlorotoluene	N/A	ND
3-Hydroxycarbofuran	N/A	ND	Dibromochloromethane	N/A	ND	P-Chlorotoluene	N/A	ND
Aldicarb	N/A	ND	Dibromomethane	N/A	ND	P-Isopropyltoluene	N/A	ND
Aldicarb Sulfone	N/A	ND	Dichlorodifluoromethane	N/A	ND	Propachlor	N/A	ND
Aldicarb Sulfoxide	N/A	ND	Dieldrin	N/A	ND	Sec - Butylbenzene	N/A	ND
Aldrin	N/A	ND	Fluorotrichloromethan	N/A	ND	Tert - Butylbenzene	N/A	ND

UCMR-5

CONTAMINANT	Well 2	Well 5, 6, 7	UNITS	CONTAMINANT	Well 2	Well 5, 6, 7	UNITS	CONTAMINANT	Well 2	Well 5, 6, 7	UNITS
11Cl-PF3OUds	<0.019	<0.019	ug/L	Perfluorodecanoic Acid	<0.019	<0.019	ug/L	Perfluorooctanoic Acid	0.005	0.0058	ug/L
4:2 FTS	<0.019	<0.019	ug/L	Perfluorohexanoic Acid	0.0039	0.0031	ug/L	Perfluorotetradecanoic Acid	<0.019	<0.019	ug/L
6:2 FTS	<0.019	<0.019	ug/L	Perfluorododecanoic Acid	<0.019	<0.019	ug/L	Perfluorotridecanoic Acid	<0.019	<0.019	ug/L
8:2 FTS	<0.019	<0.019	ug/L	Perfluoroheptanoic Acid	0.0024	0.0021	ug/L	Perfluoroundecanoic Acid	<0.019	<0.019	ug/L
9Cl-PF3ONS	<0.019	<0.019	ug/L	Perfluorohexanesulfonic Acid	0.0068	0.0028	ug/L				
ADONA	<0.019	<0.019	ug/L	Perfluorononanoic Acid	<0.019	<0.019	ug/L				
HFPO-DA	<0.019	<0.019	ug/L	Perfluorooctanesulfonic Acid	0.052	0.021	ug/L				
NFDHA	<0.019	<0.019	ug/L								
PFBS	<0.019	<0.019	ug/L								
PFDA	<0.019	<0.019	ug/L								
PFHxA	<0.019	<0.019	ug/L								
PFBA	<0.019	<0.019	ug/L								
PFESAA	<0.019	<0.019	ug/L								

PFAS Compounds

CONTAMINANT	Well 2	Well 5, 6, 7	UNITS	CONTAMINANT	Well 2	Well 5, 6, 7	UNITS	CONTAMINANT	Well 2	Well 5, 6, 7	UNITS
11Cl-PF3OUds	<0.019	<0.019	ug/L	Perfluorodecanoic Acid	<0.019	<0.019	ug/L	Perfluorooctanoic Acid	0.005	0.0058	ug/L
9Cl-PF3ONS	<0.019	<0.019	ug/L	Perfluorohexanoic Acid	0.0039	0.0031	ug/L	Perfluorotetradecanoic Acid	<0.019	<0.019	ug/L
ADONA	<0.019	<0.019	ug/L	Perfluorododecanoic Acid	<0.019	<0.019	ug/L	Perfluorotridecanoic Acid	<0.019	<0.019	ug/L
HFPO-DA	<0.019	<0.019	ug/L	Perfluoroheptanoic Acid	0.0024	0.0021	ug/L	Perfluoroundecanoic Acid	<0.019	<0.019	ug/L
NETFOSAA	<0.019	<0.019	ug/L	Perfluorohexanesulfonic Acid	0.0068	0.0028	ug/L				
NMeFOSAA	<0.019	<0.019	ug/L	Perfluorononanoic Acid	<0.019	<0.019	ug/L				
Perfluorobutanesulfonic Acid	0.052	0.0036	ug/L	Perfluorooctanesulfonic Acid	0.052	0.021	ug/L				

The table below lists all of the drinking water contaminants that we detected during the calendar year of this report. The presence of contaminants in the water does not necessarily indicate that the water poses a health risk. Unless otherwise noted, the data presented in this table is from testing done in the calendar year of the report. The EPA or ADEM requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants do not change frequently.

Table of Detected Drinking Water Contaminants								
CONTAMINANT	MCLG	MCL	Range			Amount Detected		Likely Source of Contamination
Bacteriological Contaminants January - December 2023								
Total Coliform Bacteria	0	< 5%				ND	Present or Absent	Naturally present in the environment
Turbidity	0	TT				0.12	NTU	Soil runoff
Fecal Coliform & E. coli	0	0				ND	Present or Absent	Human and animal fecal waste
Viruses, Giardia	0	TT				0	Present or Absent	Human and animal fecal waste
Legionella	0	TT				0	Present or Absent	Found naturally in water, multiplies in heating systems
Radiological Contaminants January - December 2020								
Beta particle and photon	0	4				ND	mrem/yr	Decay of natural and man-made deposits
Alpha emitters	0	15				3.40	pCi/L	Erosion of natural deposits
Combined Radium 226 & 228	0	5				0.70	pCi/L	Erosion of natural deposits
Uranium	0	30				ND	pCi/L	Erosion of natural deposits
Inorganic Contaminants January - December 2023								
Barium	2	2	ND	-	0.02	0.02	ppm	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Chlorine	MRDLG 4	MRDL 4	1.90	-	2.03	2.03	ppm	Water additive used to control microbes
Chromium	100	100	ND	-	0.01	0.01	ppb	Discharge from steel and pulp mills erosion of natural deposits
Copper	1.3	10 Sites AL=1.3	No. of Sites above action level 0			1.09	ppm	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lead	0	10 Sites AL=15	No. of Sites above action level 0			0.005	ppb	Corrosion of household plumbing systems, erosion of natural deposits
Nitrate (as N)	10	10	0.47	-	0.48	0.48	ppm	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Nitrite (as N)	1	1	ND	-	ND	ND	ppm	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Total Nitrate & Nitrite	10	10	0.47	-	0.48	0.48	ppm	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Organic Contaminants January - December 2023								
cis-1,2-Dichloroethylene	70	70	ND	-	0.90	0.90	ppb	Discharge from industrial chemical factories
Haloacetic Acids (HAA5)	0	60	ND	-	ND	ND	ppb	By-product of drinking water chlorination
Tetrachloroethylene	0	5	0.80	-	0.90	0.90	ppb	Leaching from PVC pipes; discharge from factories and dry cleaners
Total Organic Carbon (TOC)	N/A	TT	ND	-	9.20	9.20	TT	Naturally present in the environment
Total trihalomethanes (TTHM)	0	80	12.30	-	17.70	17.70	ppb	By-product of drinking water chlorination
Secondary Contaminants January - December 2023								
Aluminum	N/A	0.2	ND	-	0.00	.004	ppm	Erosion of natural deposits or as a result of treatment with water additives
Chloride	N/A	250	6.42	-	11.00	11.00	ppm	Naturally occurring in the environment or as a result of agricultural runoff
Copper	N/A	1	0.007	-	0.013	0.013	ppm	Erosion of natural deposits; leaching from pipes
Iron	N/A	0.3	ND	-	ND	ND	ppm	Erosion of natural deposits
Magnesium	N/A	0.05	2.55	-	2.73	2.73	ppm	Erosion of natural deposits
Sulfate	N/A	250	15.00	-	16.20	16.20	ppm	Naturally occurring in the environment
Total Dissolved Solids	N/A	500	96.00	-	212.00	212.00	ppm	Erosion of natural deposits
Zinc	N/A	5	ND	-	ND	ND	ppm	Erosion of natural deposits
Special Contaminants January - December 2023								
Calcium	N/A	N/A	64.50	-	66.50	66.50	ppm	Erosion of natural deposits
Carbon Dioxide	N/A	N/A	60.00	-	71.00	71.00	ppm	Erosion of natural deposits
Manganese	N/A	N/A	ND	-	ND	ND	ppm	Erosion of natural deposits
pH	N/A	N/A	6.84	-	7.21	7.21	SU	Naturally occurring in the environment or as a result of treatment with water additives
Sodium	N/A	N/A	2.48	-	2.69	2.69	ppm	Naturally occurring in the environment
Specific Conductance	N/A	<500	320.00	-	330.00	330.00	umhos	Naturally occurring in the environment or as a result of treatment with water additives
Temperature	N/A	N/A	ND	-	ND	ND	-c	Naturally occurring in the environment
Total Alkalinity	N/A	N/A	150.00	-	180.00	180.00	ppm	Erosion of natural deposits
Total Hardness (as CaCO3)	N/A	N/A	172.00	-	177.00	177.00	ppm	Naturally occurring in the environment or as a result of treatment with water additives
Unregulated Contaminants January - December 2023								
TCE - Trichloroethene	N/A	N/A	ND	-	0.00	0.00	ppm	Discharge from textile-finishing factories
Bromodichloromethane	N/A	N/A	ND	-	0.00	0.00	ppb	Naturally occurring in the environment or as a result of industrial discharge or agricultural runoff; by-product of chlorination

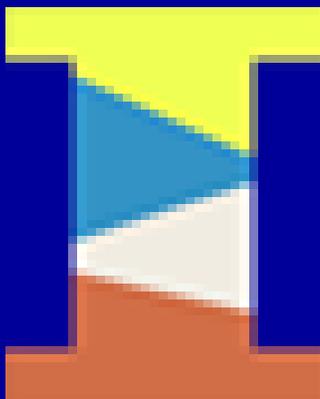
IRONDALE WATER SYSTEM

Irondale Water System
1801 Crestwood Blvd.
Irondale, AL 35210

Phone: (205) 951-1410
Hours: 7:00am - 5:00pm
Monday - Thursday

*Thank you,
our customers!*

Please be sure to download the Irondale mobile app to stay updated on everything happening and the latest news in the City of Irondale.



Total Coliform: The Total Coliform Rule requires water systems to meet a stricter limit for coliform bacteria. Coliform bacteria are usually harmless, but their presence in water can be an indication of disease-causing bacteria. When coliform bacteria are found, special follow-up tests are done to determine if harmful bacteria are present in the water supply. If this limit is exceeded, the water supplier must notify the public by newspaper, television or radio. To comply with the stricter regulation, we have increased the average amount of chlorine in the distribution system.

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and radioactive material, and it can pick up substances resulting from the presence of animals or from human activity.

Some people may be more vulnerable to contaminants in drinking water than the general population. People who are immuno-compromised such as cancer patients undergoing chemotherapy, organ transplant recipients, HIV/AIDS positive or other immune system disorders, some elderly, and infants can be particularly at risk for infections. People at risk should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbiological contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. The Irondale Water System is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at <http://www.epa.gov/safewater/lead>.

A Message from the Manager

It is the mission of the Irondale Water System to provide every customer with a dependable supply of drinking water. We pride ourselves on being good stewards of the community as you have entrusted us with the most valuable resource on earth. If you see any standing water around your meter box or in the street, please contact our office at (205) 951-1410. Standing water can be a sign of a leak or a potential health hazard, so your prompt reporting is crucial. We appreciate your assistance and look forward to serving you.

**Thank You,
Jared Morris**

A MESSAGE FROM YOUR MAYOR

Thank you for allowing us the privilege of providing your family with quality water. It is my pleasure to provide this annual report on the City's Water System.

Our employees work very hard to provide you with the highest quality water available at the best price possible. We at the City of Irondale, work around the clock to provide quality

water to every tap. We ask that all our customers help protect our water sources, which are the heart of our community, way of life, and our children's future.

James D. Stewart, Jr.

Mayor

APPENDIX C
LABORATORY ANALYTICAL DATA REPORTS



**CHAIN OF CUSTODY
ANALYSIS REQUEST**

SEND REPORT TO:
Name: Debra B. Hill Invoice # 54328

Company: Bechtel Environmental
Address: _____

Page of

Sutherland
Environmental Company, Inc.
2515 5th Avenue South
Birmingham, AL 35233
PHONE: (205)581-9500
E-mail: suthlab@bellsouth.net

Client P.O. # _____

Phone #: _____
E-mail(s): _____

Call # _____

PDF: yes no

CLIENT:

PROJECT NAME/#: PEC Metals Lab 2.1

SAMPLER(S): Seawater (Sutherland)

ANALYSIS REQUESTED / METHOD

DATE DELIVERED: _____

LAB ID	FIELD ID	DATE Collected	TIME Collected	SAMPLE DESCRIPTION (matrix)	VOL		SAMPLER(S) (print)	ANALYSIS REQUESTED / METHOD				Number of sample containers							
268049	MW-1	7/6/25	1415	Seawater															
268050	MW-2		1400																
268051	MW-3		1430																
268052	MW-4		1300																
268053	MW-5		1200																
268054	MW-6		1230																
268055	MW-1		1300																
268056	MW-2		1330																
268057	MW-3		945																
268058	MW-3		1345																
268059	MW-4		1400																
268060	MW-8		1410																

Preservative: (a) HCl, (b) HNO₃, (c) H₂SO₄, (d) NaOH, (e) Na₂S₂O₃, (f) H₃PO₄, (g) Zn Acetate
Container type: (a) Amber, (g) Glass, (p) Plastic, (v) VOC Vial, (air) air bag

Preservative: _____
Container: _____
Standard: Turn Around Time _____ RUSH: _____
3-DAY 1-DAY
2-DAY SAME DAY

Relinquished by: S
Signed: _____

Date: 7/6/25 Time: 1510

Received by: _____
Signed: _____

Date: _____ Time: _____

Remarks: _____

Relinquished by: _____
Signed: _____

Date: _____ Time: _____

Received by: _____
Signed: _____

Date: _____ Time: _____

Remarks: _____

Relinquished by: _____
Signed: _____

Date: _____ Time: _____

Received in Lab by: M. W.

Date: 7/16 Time: 3:10

Refrigerated upon receipt: yes no

Sutherland

Environmental Company, Inc.

2515 5th Avenue South
Birmingham, AL 35233
205-581-9500



Client:	Bullock Environmental, LLC	Report Date:	July 21, 2025
Attention:	Mr. Doug Bullock	Reference #	54328
Address:	4924 5th Ave. South	P.O. #	verbal
	Birmingham, AL 35222	Project ID:	PNC Montclair Rd.

Sample Matrix:	water	Analytical	
Date Received:	7/16/25	Analyst:	Hageman/Heard
Date Collected:	7/16/25	Date Analysis:	7/18/25
Sample Collector:	S. Smith	Method:	EPA Method 8260B

VOLATILE ORGANIC COMPOUNDS						
VOLATILE ORGANIC COMPOUNDS, PPM	FIELD ID	Detection Limit PPM				
	MW-1	MW-2	MW-3	MW-4	MW-5	
	LAB ID					
	268049	268050	268051	268052	268053	
Benzene	BDL	BDL	BDL	BDL	BDL	0.005
Bromobenzene	BDL	BDL	BDL	BDL	BDL	0.005
Bromochloromethane	BDL	BDL	BDL	BDL	BDL	0.005
Bromodichloromethane	BDL	BDL	BDL	BDL	BDL	0.005
Bromoform	BDL	BDL	BDL	BDL	BDL	0.005
Bromomethane	BDL	BDL	BDL	BDL	BDL	0.005
n-Butylbenzene	BDL	BDL	BDL	BDL	BDL	0.005
sec-Butylbenzene	BDL	BDL	BDL	BDL	BDL	0.005
tert-Butylbenzene	BDL	BDL	BDL	BDL	BDL	0.005
Carbon Tetrachloride	BDL	BDL	BDL	BDL	BDL	0.005
Chlorobenzene	BDL	BDL	BDL	BDL	BDL	0.005
Chloroethane	BDL	BDL	BDL	BDL	BDL	0.005
Chloroform	BDL	BDL	BDL	BDL	BDL	0.005
Chloromethane	BDL	BDL	BDL	BDL	BDL	0.005
2-Chlorotoluene	BDL	BDL	BDL	BDL	BDL	0.005
4-Chlorotoluene	BDL	BDL	BDL	BDL	BDL	0.005
Dibromochloromethane	BDL	BDL	BDL	BDL	BDL	0.005
1,2-Dibromo-3-Chloropropane	BDL	BDL	BDL	BDL	BDL	0.005
1,2-Dibromoethane	BDL	BDL	BDL	BDL	BDL	0.005
Dibromomethane	BDL	BDL	BDL	BDL	BDL	0.005
1,2-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	0.005
1,3-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	0.005
1,4-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	0.005
Dichlorodifluoromethane	BDL	BDL	BDL	BDL	BDL	0.005
1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL	0.002
1,2-Dichloroethane	BDL	BDL	BDL	BDL	BDL	0.005

Compound List Continued next page

BDL = Below Detection Limit, Method
All results expressed as PPM (mg/L)

Sutherland

Environmental Company, Inc.

2515 5th Avenue South
Birmingham, AL 35233
205-581-9500



Client:	Bullock Environmental, LLC	Report Date:	July 21, 2025
Attention:	Mr. Doug Bullock	Reference #	54328
Address:	4924 5th Ave. South Birmingham, AL 35222	P.O. #	verbal
		Project ID:	PNC Montclair Rd.

Sample Matrix:	water	Analytical	
Date Received:	7/16/25	Analyst:	Hageman/Heard
Date Collected:	7/16/25	Date Analysis:	7/18/25
Sample Collector:	S. Smith	Method:	EPA Method 8260B

VOLATILE ORGANIC COMPOUNDS						
	FIELD ID	Detection Limit PPM				
	MW-1	MW-2	MW-3	MW-4	MW-5	
VOLATILE ORGANIC COMPOUNDS, PPM	LAB ID					
	268049	268050	268051	268052	268053	
1,1-Dichloroethene	BDL	BDL	BDL	BDL	BDL	0.005
cis-1,2-Dichloroethene	BDL	BDL	BDL	BDL	BDL	0.005
trans-1,2-Dichloroethene	BDL	BDL	BDL	BDL	BDL	0.005
1,2-Dichloropropane	BDL	BDL	BDL	BDL	BDL	0.005
1,3- Dichloropropane	BDL	BDL	BDL	BDL	BDL	0.005
2,2-Dichloropropane	BDL	BDL	BDL	BDL	BDL	0.005
1,1-Dichloropropene	BDL	BDL	BDL	BDL	BDL	0.005
cis-1,3-Dichloropropene	BDL	BDL	BDL	BDL	BDL	0.005
trans-1,3-Dichloropropene	BDL	BDL	BDL	BDL	BDL	0.005
Ethylbenzene	BDL	BDL	BDL	BDL	BDL	0.005
Hexachlorobutadiene	BDL	BDL	BDL	BDL	BDL	0.005
Isopropylbenzene	BDL	BDL	BDL	BDL	BDL	0.005
4-Isopropyltoluene	BDL	BDL	BDL	BDL	BDL	0.005
Methylene Chloride	BDL	BDL	BDL	BDL	BDL	0.005
Naphthalene	BDL	BDL	BDL	BDL	BDL	0.010
n-Propylbenzene	BDL	BDL	BDL	BDL	BDL	0.005
Styrene	BDL	BDL	BDL	BDL	BDL	0.005
1,1,1,2-Tetrachloroethane	BDL	BDL	BDL	BDL	BDL	0.005
1,1,2,2-Tetrachloroethane	BDL	BDL	BDL	BDL	BDL	0.005
Tetrachloroethene	0.007	BDL	BDL	BDL	BDL	0.005
Toluene	BDL	BDL	BDL	BDL	BDL	0.005
1,2,3-Trichlorobenzene	BDL	BDL	BDL	BDL	BDL	0.005
1,2,4-Trichlorobenzene	BDL	BDL	BDL	BDL	BDL	0.005
1,1,1-Trichloroethane	BDL	BDL	BDL	BDL	BDL	0.005
1,1,2-Trichloroethane	BDL	BDL	BDL	BDL	BDL	0.005

Compound List Continued next page

BDL = Below Detection Limit, Method
All results expressed as PPM (mg/L)

Sutherland

Environmental Company, Inc.

2515 5th Avenue South
Birmingham, AL 35233
205-581-9500



Client:	Bullock Environmental, LLC	Report Date:	July 21, 2025
Attention:	Mr. Doug Bullock	Reference #	54328
Address:	4924 5th Ave. South Birmingham, AL 35222	P.O. #	verbal
		Project ID:	PNC Montclair Rd.

Sample Matrix:	water	Analytical	
Date Received:	7/16/25	Analyst:	Hageman/Heard
Date Collected:	7/16/25	Date Analysis:	7/18/25
Sample Collector:	S. Smith	Method:	EPA Method 8260B

VOLATILE ORGANIC COMPOUNDS						
VOLATILE ORGANIC COMPOUNDS, PPM	FIELD ID	Detection Limit PPM				
	MW-1	MW-2	MW-3	MW-4	MW-5	
	LAB ID					
	268049	268050	268051	268052	268053	
Trichloroethylene	BDL	BDL	BDL	BDL	BDL	0.005
Trichlorofluoromethane	BDL	BDL	BDL	BDL	BDL	0.005
1,2,3-Trichloropropane	BDL	BDL	BDL	BDL	BDL	0.005
1,2,4-Trimethylbenzene	BDL	BDL	BDL	BDL	BDL	0.005
1,3,5-Trimethylbenzene	BDL	BDL	BDL	BDL	BDL	0.005
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	0.002
Xylenes, o,m,p	BDL	BDL	BDL	BDL	BDL	0.005
MTBE	BDL	BDL	BDL	BDL	BDL	0.005

BDL = Below Detection Limit, Method
All results expressed as PPM (mg/L)

Sutherland

Environmental Company, Inc.

2515 5th Avenue South
Birmingham, AL 35233
205-581-9500



Client:	Bullock Environmental, LLC	Report Date:	July 21, 2025
Attention:	Mr. Doug Bullock	Reference #	54328
Address:	4924 5th Ave. South Birmingham, AL 35222	P.O. #	verbal
		Project ID:	PNC Montclair Rd.

Sample Matrix:	water	Analytical	
Date Received:	7/16/25	Analyst:	Hageman/Heard
Date Collected:	7/16/25	Date Analysis:	7/18/25
Sample Collector:	S. Smith	Method:	EPA Method 8260B

VOLATILE ORGANIC COMPOUNDS						
	FIELD ID					
VOLATILE ORGANIC COMPOUNDS, PPM	MW-6	DW-1	DW-1D	DW-2	DW-3	Detection Limit PPM
	LAB ID					
	268054	268055	268056	268057	268058	
Benzene	BDL	BDL	BDL	BDL	BDL	0.005
Bromobenzene	BDL	BDL	BDL	BDL	BDL	0.005
Bromochloromethane	BDL	BDL	BDL	BDL	BDL	0.005
Bromodichloromethane	BDL	BDL	BDL	BDL	BDL	0.005
Bromoform	BDL	BDL	BDL	BDL	BDL	0.005
Bromomethane	BDL	BDL	BDL	BDL	BDL	0.005
n-Butylbenzene	BDL	BDL	BDL	BDL	BDL	0.005
sec-Butylbenzene	BDL	BDL	BDL	BDL	BDL	0.005
tert-Butylbenzene	BDL	BDL	BDL	BDL	BDL	0.005
Carbon Tetrachloride	BDL	BDL	BDL	BDL	BDL	0.005
Chlorobenzene	BDL	BDL	BDL	BDL	BDL	0.005
Chloroethane	BDL	BDL	BDL	BDL	BDL	0.005
Chloroform	BDL	BDL	BDL	BDL	BDL	0.005
Chloromethane	BDL	BDL	BDL	BDL	BDL	0.005
2-Chlorotoluene	BDL	BDL	BDL	BDL	BDL	0.005
4-Chlorotoluene	BDL	BDL	BDL	BDL	BDL	0.005
Dibromochloromethane	BDL	BDL	BDL	BDL	BDL	0.005
1,2-Dibromo-3-Chloropropane	BDL	BDL	BDL	BDL	BDL	0.005
1,2-Dibromoethane	BDL	BDL	BDL	BDL	BDL	0.005
Dibromomethane	BDL	BDL	BDL	BDL	BDL	0.005
1,2-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	0.005
1,3-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	0.005
1,4-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	0.005
Dichlorodifluoromethane	BDL	BDL	BDL	BDL	BDL	0.005
1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL	0.002
1,2-Dichloroethane	BDL	BDL	BDL	BDL	BDL	0.005

Compound List Continued next page

BDL = Below Detection Limit, Method
All results expressed as PPM (mg/L)

Sutherland

Environmental Company, Inc.

2515 5th Avenue South
Birmingham, AL 35233
205-581-9500



Client:	Bullock Environmental, LLC	Report Date:	July 21, 2025
Attention:	Mr. Doug Bullock	Reference #	54328
Address:	4924 5th Ave. South Birmingham, AL 35222	P.O. #	verbal
		Project ID:	PNC Montclair Rd.

Sample Matrix:	water	Analytical	
Date Received:	7/16/25	Analyst:	Hageman/Heard
Date Collected:	7/16/25	Date Analysis:	7/18/25
Sample Collector:	S. Smith	Method:	EPA Method 8260B

VOLATILE ORGANIC COMPOUNDS						
VOLATILE ORGANIC COMPOUNDS, PPM	FIELD ID	Detection Limit PPM				
	MW-6	DW-1	DW-1D	DW-2	DW-3	
	LAB ID					
	268054	268055	268056	268057	268058	
1,1-Dichloroethene	BDL	BDL	BDL	BDL	BDL	0.005
cis-1,2-Dichloroethene	BDL	BDL	BDL	BDL	BDL	0.005
trans-1,2-Dichloroethene	BDL	BDL	0.016	BDL	BDL	0.005
1,2-Dichloropropane	BDL	BDL	BDL	BDL	BDL	0.005
1,3-Dichloropropane	BDL	BDL	BDL	BDL	BDL	0.005
2,2-Dichloropropane	BDL	BDL	BDL	BDL	BDL	0.005
1,1-Dichloropropene	BDL	BDL	BDL	BDL	BDL	0.005
cis-1,3-Dichloropropene	BDL	BDL	BDL	BDL	BDL	0.005
trans-1,3-Dichloropropene	BDL	BDL	BDL	BDL	BDL	0.005
Ethylbenzene	BDL	BDL	BDL	BDL	BDL	0.005
Hexachlorobutadiene	BDL	BDL	BDL	BDL	BDL	0.005
Isopropylbenzene	BDL	BDL	BDL	BDL	BDL	0.005
4-Isopropyltoluene	BDL	BDL	BDL	BDL	BDL	0.005
Methylene Chloride	BDL	BDL	BDL	BDL	BDL	0.005
Naphthalene	BDL	BDL	BDL	BDL	BDL	0.010
n-Propylbenzene	BDL	BDL	BDL	BDL	BDL	0.005
Styrene	BDL	BDL	BDL	BDL	BDL	0.005
1,1,1,2-Tetrachloroethane	BDL	BDL	BDL	BDL	BDL	0.005
1,1,2,2-Tetrachloroethane	BDL	BDL	BDL	BDL	BDL	0.005
Tetrachloroethene	BDL	0.021	0.051	0.006	0.014	0.005
Toluene	BDL	BDL	BDL	BDL	BDL	0.005
1,2,3-Trichlorobenzene	BDL	BDL	BDL	BDL	BDL	0.005
1,2,4-Trichlorobenzene	BDL	BDL	BDL	BDL	BDL	0.005
1,1,1-Trichloroethane	BDL	BDL	BDL	BDL	BDL	0.005
1,1,2-Trichloroethane	BDL	BDL	BDL	BDL	BDL	0.005

Compound List Continued next page

BDL = Below Detection Limit, Method
All results expressed as PPM (mg/L)

Sutherland

Environmental Company, Inc.

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Birmingham, AL 35233
205-581-9500



Client:	Bullock Environmental, LLC	Report Date:	July 21, 2025
Attention:	Mr. Doug Bullock	Reference #	54328
Address:	4924 5th Ave. South Birmingham, AL 35222	P.O. #	verbal
		Project ID:	PNC Montclair Rd.

Sample Matrix:	water	Analytical	
Date Received:	7/16/25	Analyst:	Hageman/Heard
Date Collected:	7/16/25	Date Analysis:	7/18/25
Sample Collector:	S. Smith	Method:	EPA Method 8260B

VOLATILE ORGANIC COMPOUNDS						
	FIELD ID					
VOLATILE ORGANIC COMPOUNDS, PPM	MW-6	DW-1	DW-1D	DW-2	DW-3	Detection Limit PPM
	LAB ID					
	268054	268055	268056	268057	268058	
Trichloroethylene	BDL	BDL	0.053	0.007	BDL	0.005
Trichlorofluoromethane	BDL	BDL	BDL	BDL	BDL	0.005
1,2,3-Trichloropropane	BDL	BDL	BDL	BDL	BDL	0.005
1,2,4-Trimethylbenzene	BDL	BDL	BDL	BDL	BDL	0.005
1,3,5-Trimethylbenzene	BDL	BDL	BDL	BDL	BDL	0.005
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	0.002
Xylenes, o,m,p	BDL	BDL	BDL	BDL	BDL	0.005
MTBE	BDL	BDL	BDL	BDL	BDL	0.005

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Sample Matrix:	water	Analytical	
Date Received:	7/16/25	Analyst:	Hageman/Heard
Date Collected:	7/16/25	Date Analysis:	7/18/25
Sample Collector:	S. Smith	Method:	EPA Method 8260B

VOLATILE ORGANIC COMPOUNDS						
	FIELD ID	FIELD ID				Detection
VOLATILE ORGANIC COMPOUNDS, PPM	DW-4	MW-8				Limit
	LAB ID	LAB ID				PPM
	268059	268060				
Benzene	BDL	BDL				0.005
Bromobenzene	BDL	BDL				0.005
Bromochloromethane	BDL	BDL				0.005
Bromodichloromethane	BDL	BDL				0.005
Bromoform	BDL	BDL				0.005
Bromomethane	BDL	BDL				0.005
n-Butylbenzene	BDL	BDL				0.005
sec-Butylbenzene	BDL	BDL				0.005
tert-Butylbenzene	BDL	BDL				0.005
Carbon Tetrachloride	BDL	BDL				0.005
Chlorobenzene	BDL	BDL				0.005
Chloroethane	BDL	BDL				0.005
Chloroform	BDL	BDL				0.005
Chloromethane	BDL	BDL				0.005
2-Chlorotoluene	BDL	BDL				0.005
4-Chlorotoluene	BDL	BDL				0.005
Dibromochloromethane	BDL	BDL				0.005
1,2-Dibromo-3-Chloropropane	BDL	BDL				0.005
1,2-Dibromoethane	BDL	BDL				0.005
Dibromomethane	BDL	BDL				0.005
1,2-Dichlorobenzene	BDL	BDL				0.005
1,3-Dichlorobenzene	BDL	BDL				0.005
1,4-Dichlorobenzene	BDL	BDL				0.005
Dichlorodifluoromethane	BDL	BDL				0.005
1,1-Dichloroethane	BDL	BDL				0.002
1,2-Dichloroethane	BDL	BDL				0.005

Compound List Continued next page

BDL = Below Detection Limit, Method
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Sutherland

Environmental Company, Inc.

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Birmingham, AL 35233
205-581-9500



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Sample Matrix:	water	Analytical	
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Date Collected:	7/16/25	Date Analysis:	7/18/25
Sample Collector:	S. Smith	Method:	EPA Method 8260B

VOLATILE ORGANIC COMPOUNDS						
VOLATILE ORGANIC COMPOUNDS, PPM	FIELD ID	FIELD ID				Detection Limit PPM
	DW-4	MW-8				
	LAB ID	LAB ID				
	268059	268060				
1,1-Dichloroethene	BDL	BDL				0.005
cis-1,2-Dichloroethene	BDL	BDL				0.005
trans-1,2-Dichloroethene	BDL	BDL				0.005
1,2-Dichloropropane	BDL	BDL				0.005
1,3-Dichloropropane	BDL	BDL				0.005
2,2-Dichloropropane	BDL	BDL				0.005
1,1-Dichloropropene	BDL	BDL				0.005
cis-1,3-Dichloropropene	BDL	BDL				0.005
trans-1,3-Dichloropropene	BDL	BDL				0.005
Ethylbenzene	BDL	BDL				0.005
Hexachlorobutadiene	BDL	BDL				0.005
Isopropylbenzene	BDL	BDL				0.005
4-Isopropyltoluene	BDL	BDL				0.005
Methylene Chloride	BDL	BDL				0.005
Naphthalene	BDL	BDL				0.010
n-Propylbenzene	BDL	BDL				0.005
Styrene	BDL	BDL				0.005
1,1,1,2-Tetrachloroethane	BDL	BDL				0.005
1,1,2,2-Tetrachloroethane	BDL	BDL				0.005
Tetrachloroethene	BDL	BDL				0.005
Toluene	BDL	BDL				0.005
1,2,3-Trichlorobenzene	BDL	BDL				0.005
1,2,4-Trichlorobenzene	BDL	BDL				0.005
1,1,1-Trichloroethane	BDL	BDL				0.005
1,1,2-Trichloroethane	BDL	BDL				0.005

Compound List Continued next page

BDL = Below Detection Limit, Method
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205-581-9500



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		Project ID:	PNC Montclair Rd.

Sample Matrix:	water	Analytical	
Date Received:	7/16/25	Analyst:	Hageman/Heard
Date Collected:	7/16/25	Date Analysis:	7/18/25
Sample Collector:	S. Smith	Method:	EPA Method 8260B

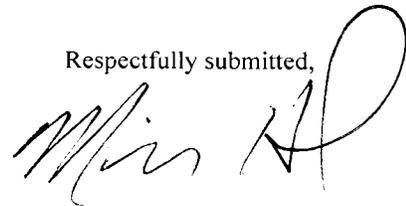
VOLATILE ORGANIC COMPOUNDS						
	FIELD ID	FIELD ID				
VOLATILE ORGANIC COMPOUNDS, PPM	DW-4	MW-8				Detection Limit PPM
	LAB ID	LAB ID				
	268059	268060				
Trichloroethylene	BDL	BDL				0.005
Trichlorofluoromethane	BDL	BDL				0.005
1,2,3-Trichloropropane	BDL	BDL				0.005
1,2,4-Trimethylbenzene	BDL	BDL				0.005
1,3,5-Trimethylbenzene	BDL	BDL				0.005
Vinyl Chloride	BDL	BDL				0.002
Xylenes, o,m,p	BDL	BDL				0.005
MTBE	BDL	BDL				0.005

BDL = Below Detection Limit, Method
All results expressed as PPM (mg/L)

 /QAQC

EPA Laboratory ID AL01084

Respectfully submitted,



Michael Heard
VP/Laboratory Manager

Sutherland Environmental Read and Review Checklist

1. Is the client and the sample collector(s) accurately noted on report?	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
2. Do all dates match the COC on the report?	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
3. Is the purchase order ID (PO) and project ID accurately noted on report?	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
4. Are all methods and method references correct on report?	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
5. Do the Field ID(s) and the Lab ID(s) correspond to the COC?	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
6. Is the report formatted correctly?	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
7. Does the following information on report correspond to the printout information from the analytical instrumentation:				
Sample Matrix	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
Analyst	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
Analysis Date/Time	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
Analyte concentration	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
Units	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
Dilution Factors/Conversions	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
Detection/Reporting/Quant. Limits	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
QC Reviewed:	<input checked="" type="checkbox"/> YES		<input checked="" type="checkbox"/> YES	

Initial*:

LKH
MJH

* MJH = Michael Heard, KD = Kevin Doriety, MSH = Matt Hageman, KH = Kelly Hester

PDF /
Notes:

BULLOCK

Invoice

54328
54238

Sutherland Environmental Co., Inc.

Sutherland Environmental Company Inc.

Sample Check-in Form

Date Received:	<u>7/16/25</u>	Invoice #	<u>54328</u>
Method of Delivery:	<u>hand</u>	Client:	<u>BULLOCK</u>

1. Did any containers arrive broken?	YES	<input checked="" type="checkbox"/> NO
* If so, please state field ID with analysis of broken sample(s) _____		
2. Were cooler(s) sealed upon arrival?	<input checked="" type="checkbox"/> YES	NO NA
3. Were the samples received at the proper temperature (4°C +/- 2°C)?	<input checked="" type="checkbox"/> YES	NO NA
4. Did a chain of custody accompany the samples?	<input checked="" type="checkbox"/> YES	NO
* Was it properly filled out?		
	<input checked="" type="checkbox"/> YES	NO
5. Were correct containers used for the analysis requested?	<input checked="" type="checkbox"/> YES	NO
6. Were all containers properly preserved?	<input checked="" type="checkbox"/> YES	NO NA
7. Were all water samples received at the proper pH?	<input checked="" type="checkbox"/> YES	NO NA
8. If VOA vials were present, was there any head space?	YES	<input checked="" type="checkbox"/> NO NA
* If so, please state field ID of deficient sample(s): _____		
9. Were all containers properly labeled and match chain of custody?	<input checked="" type="checkbox"/> YES	NO
10. Did containers arrive within holding time of analysis?	<input checked="" type="checkbox"/> YES	NO
* If not, please state field ID and analysis of sample(s) out of holding time: _____		
11. Was client informed of any/all deficiencies in sample check-in?	YES	NO <input checked="" type="checkbox"/> NA
12. Were any samples rejected?	YES	NO <input checked="" type="checkbox"/>
* If so, please state field ID of rejected sample(s): _____		

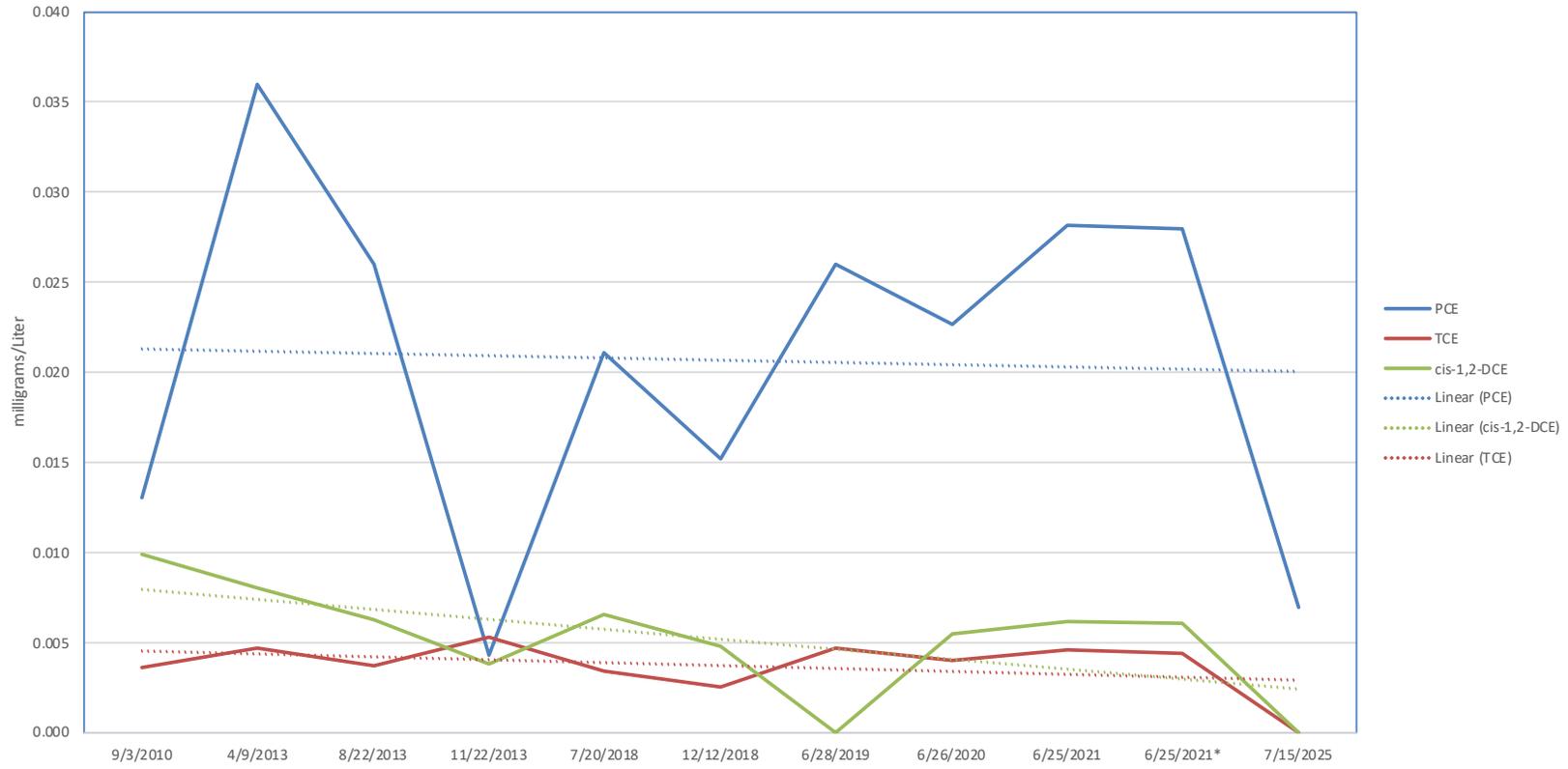
Sample Custodian (signed): M.W.

APPENDIX D

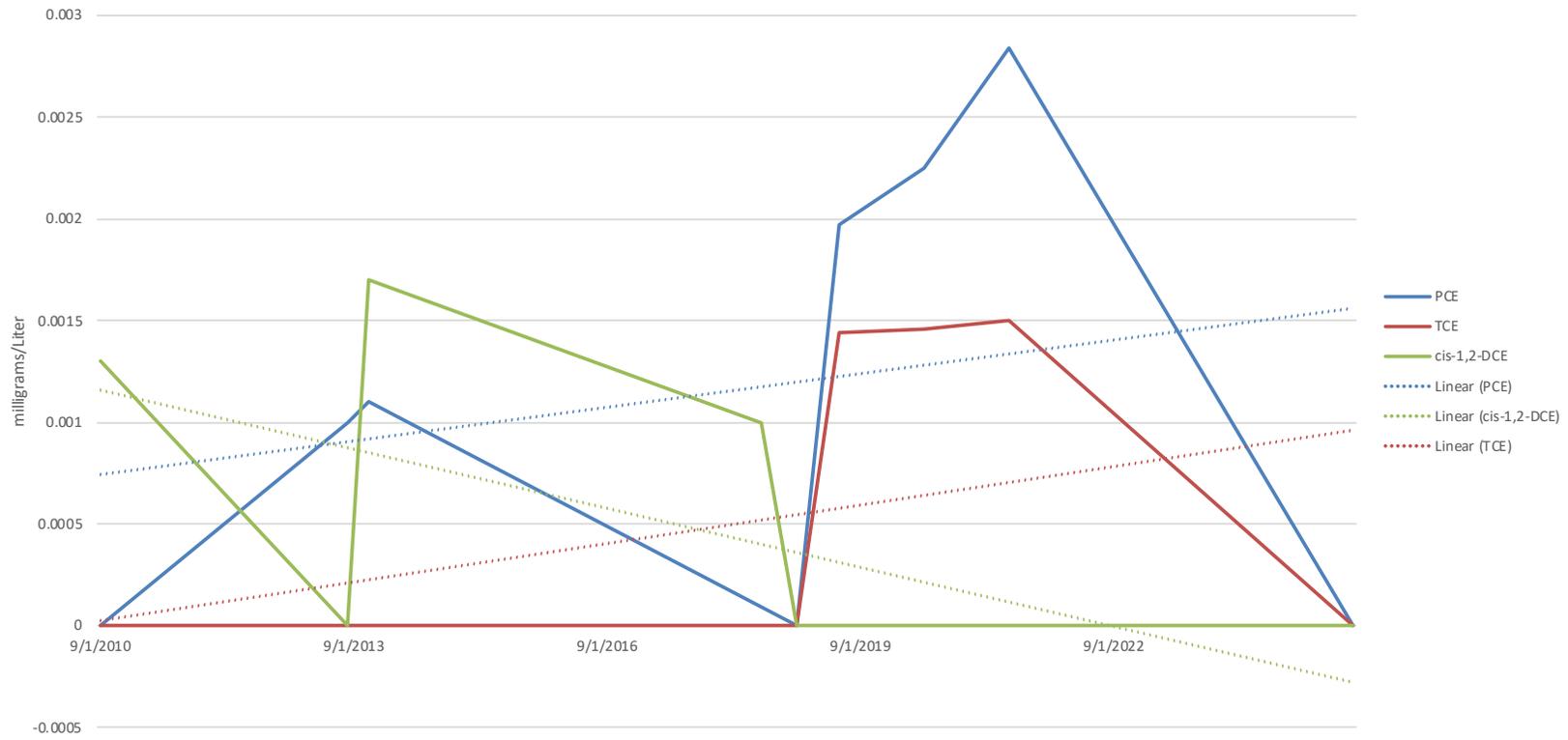
COC CONCENTRATIONS OVER TIME



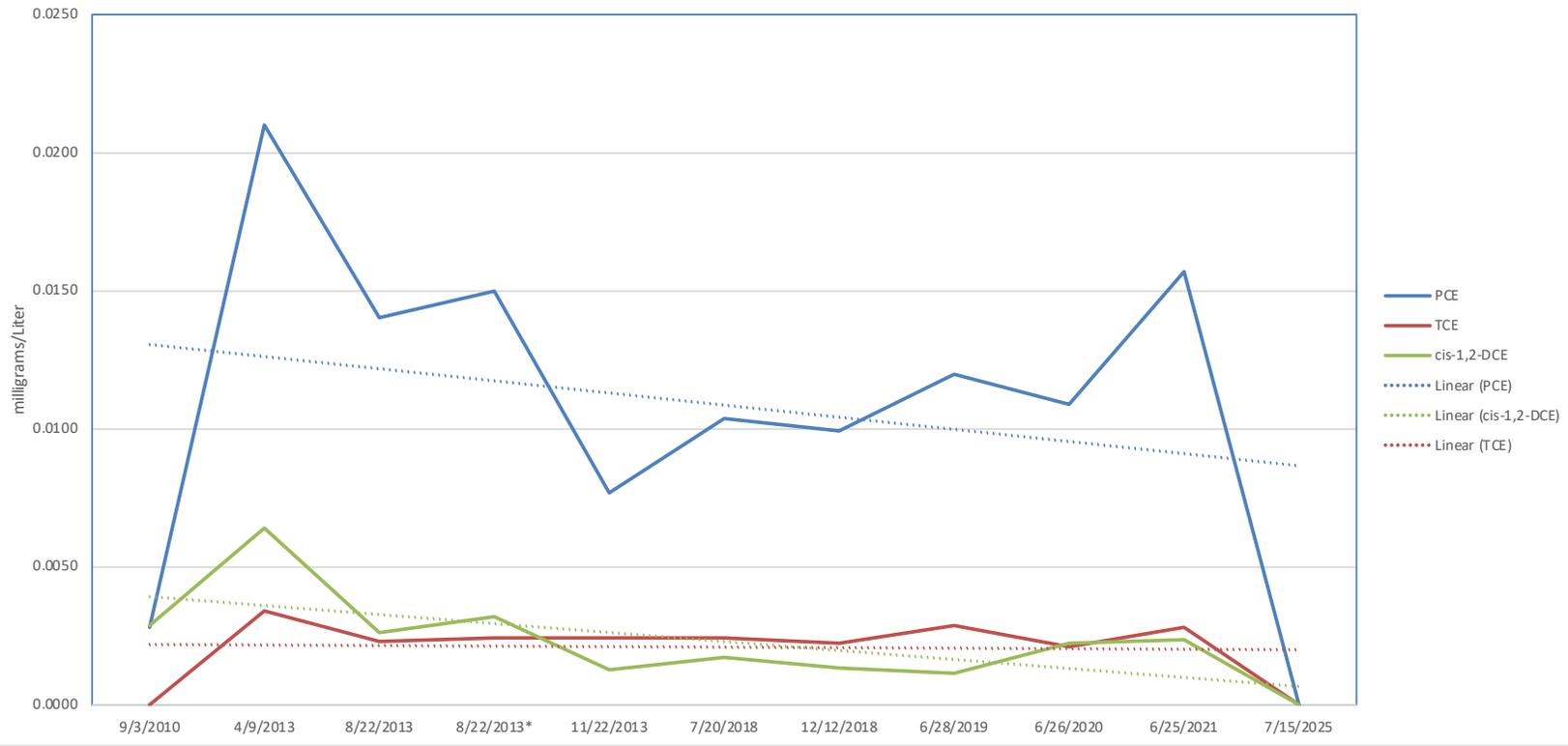
MW-1 (Concentrations versus Time)



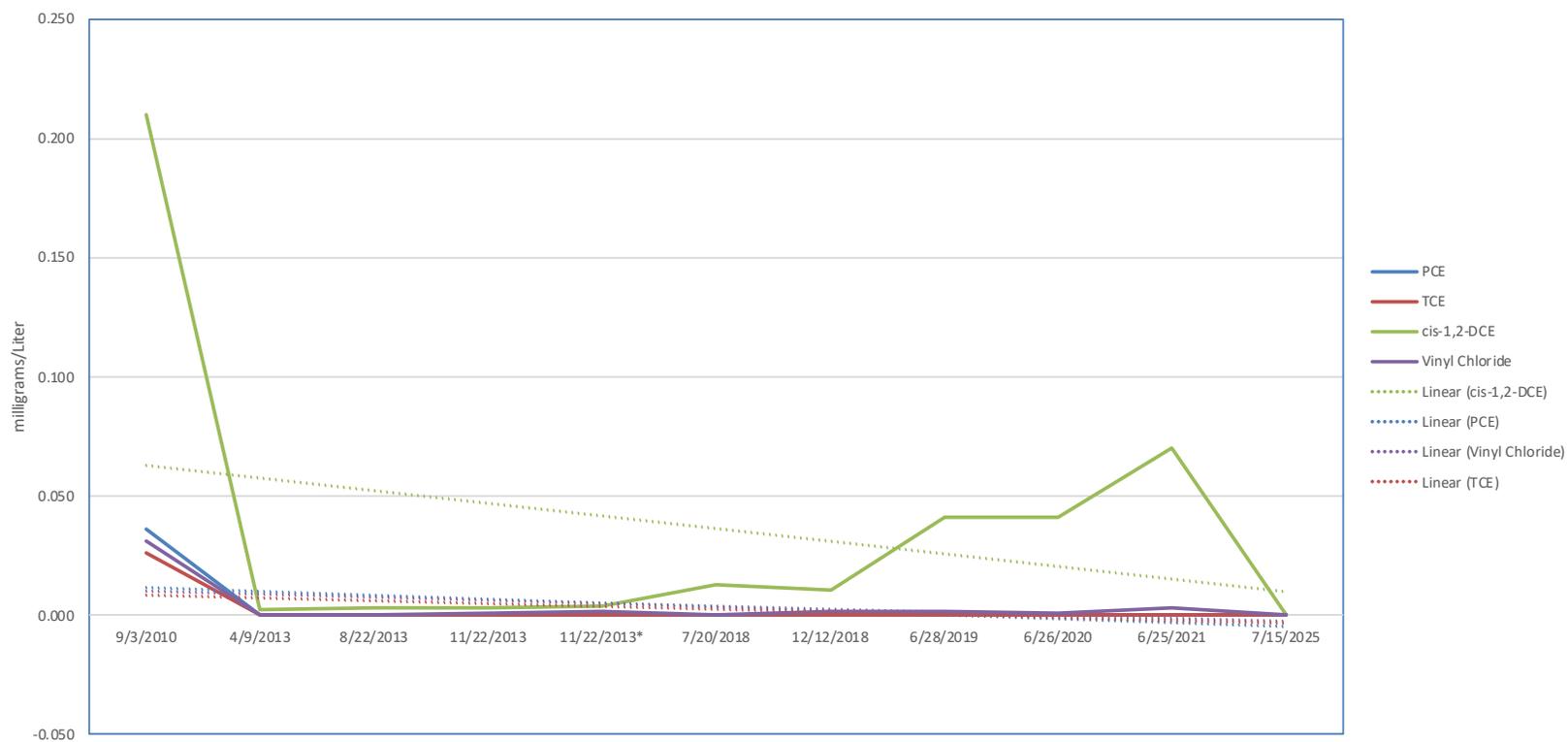
MW-2 (Concentrations versus Time)



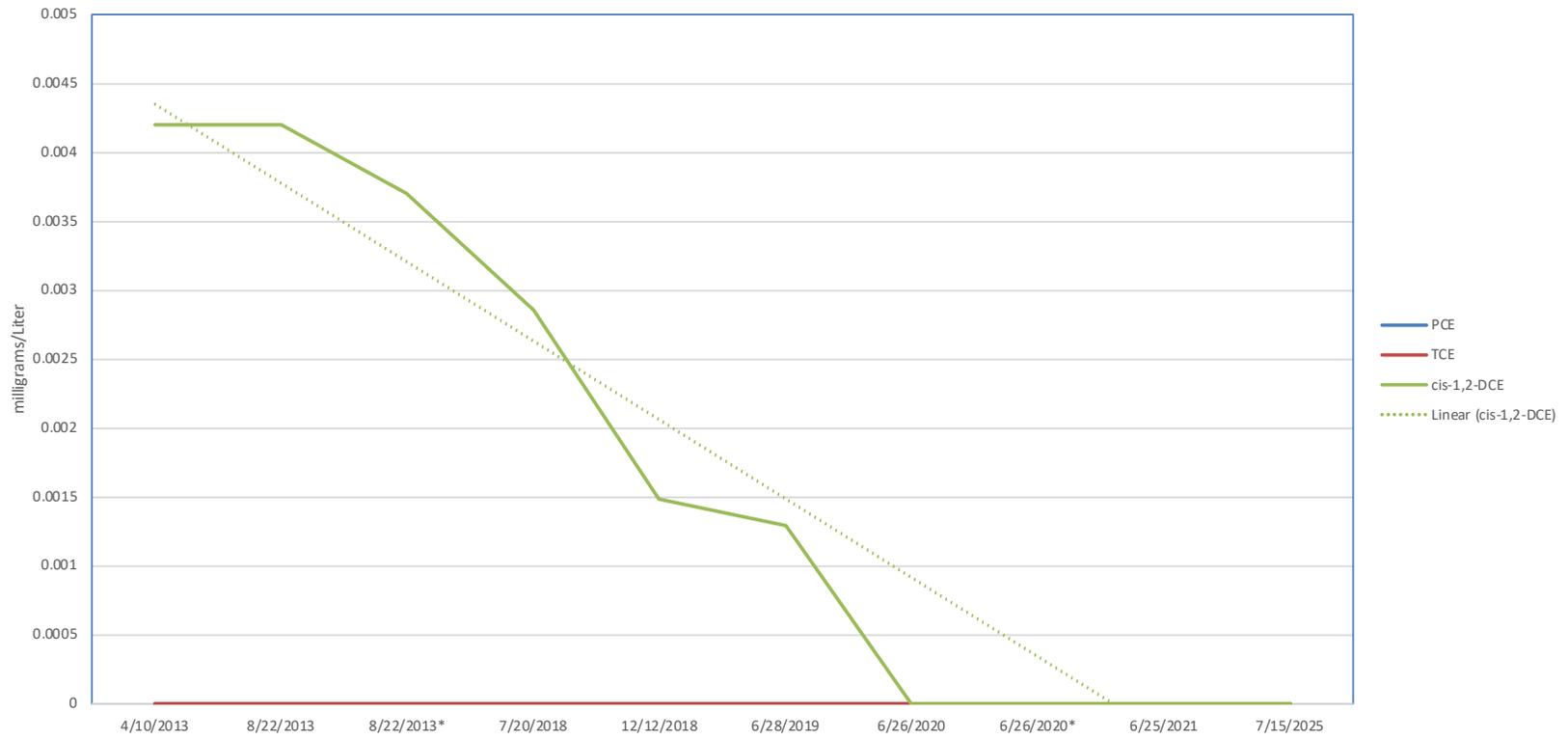
MW-3 (Concentrations versus Time)



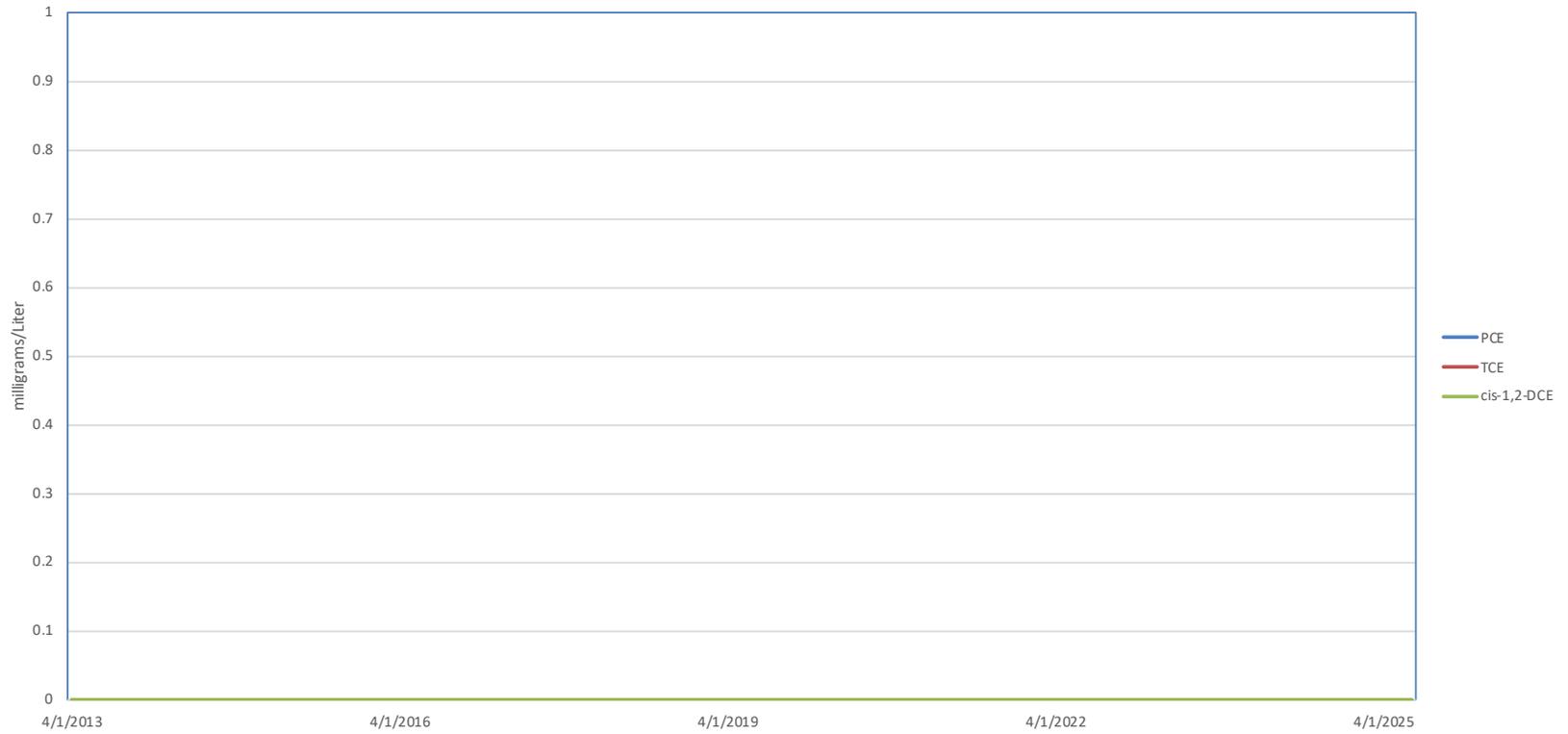
MW- 4 (Concentrations versus Time)



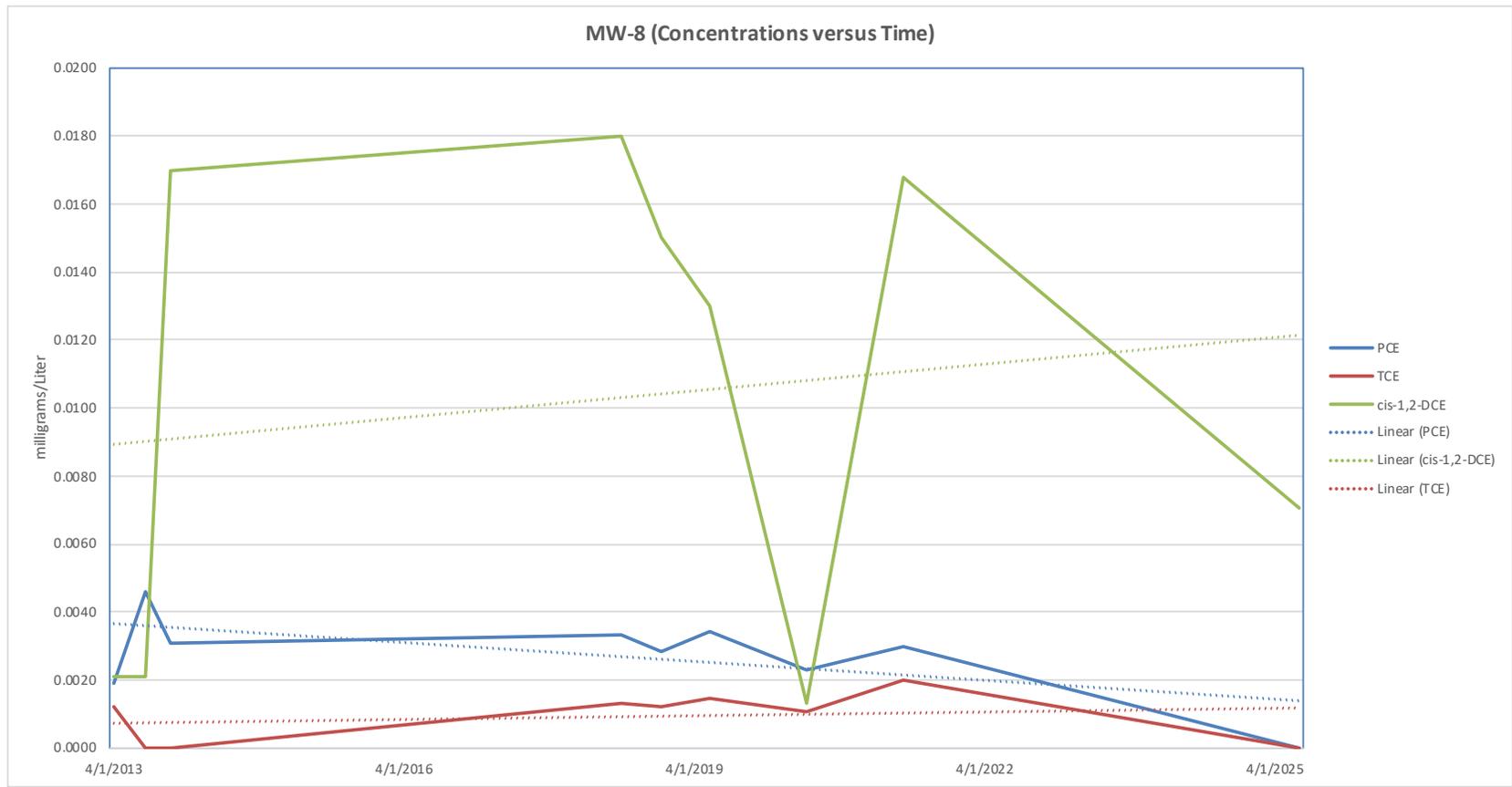
MW-5 (Concentrations versus Time)



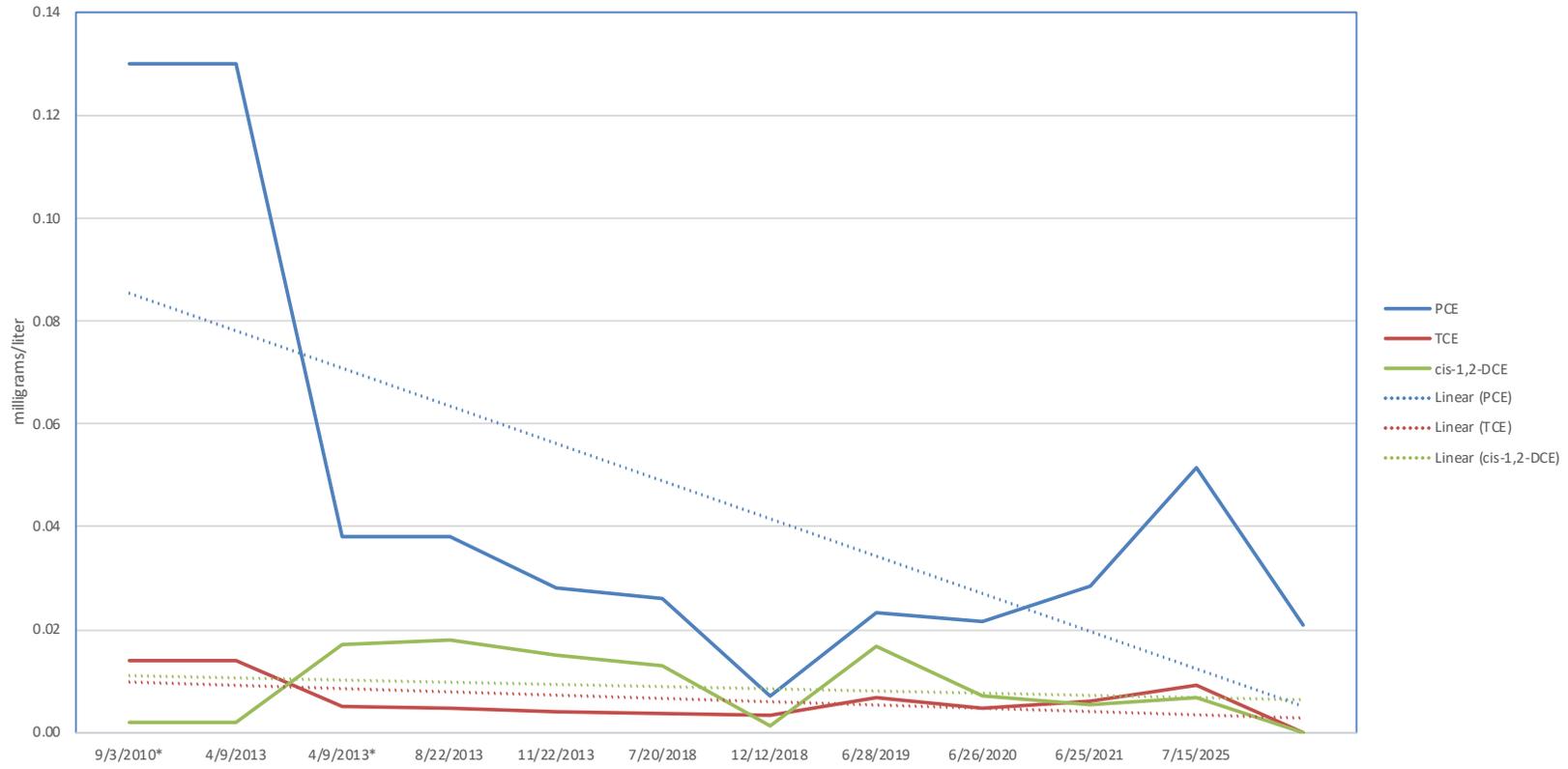
MW-6 (Concentrations versus Time)



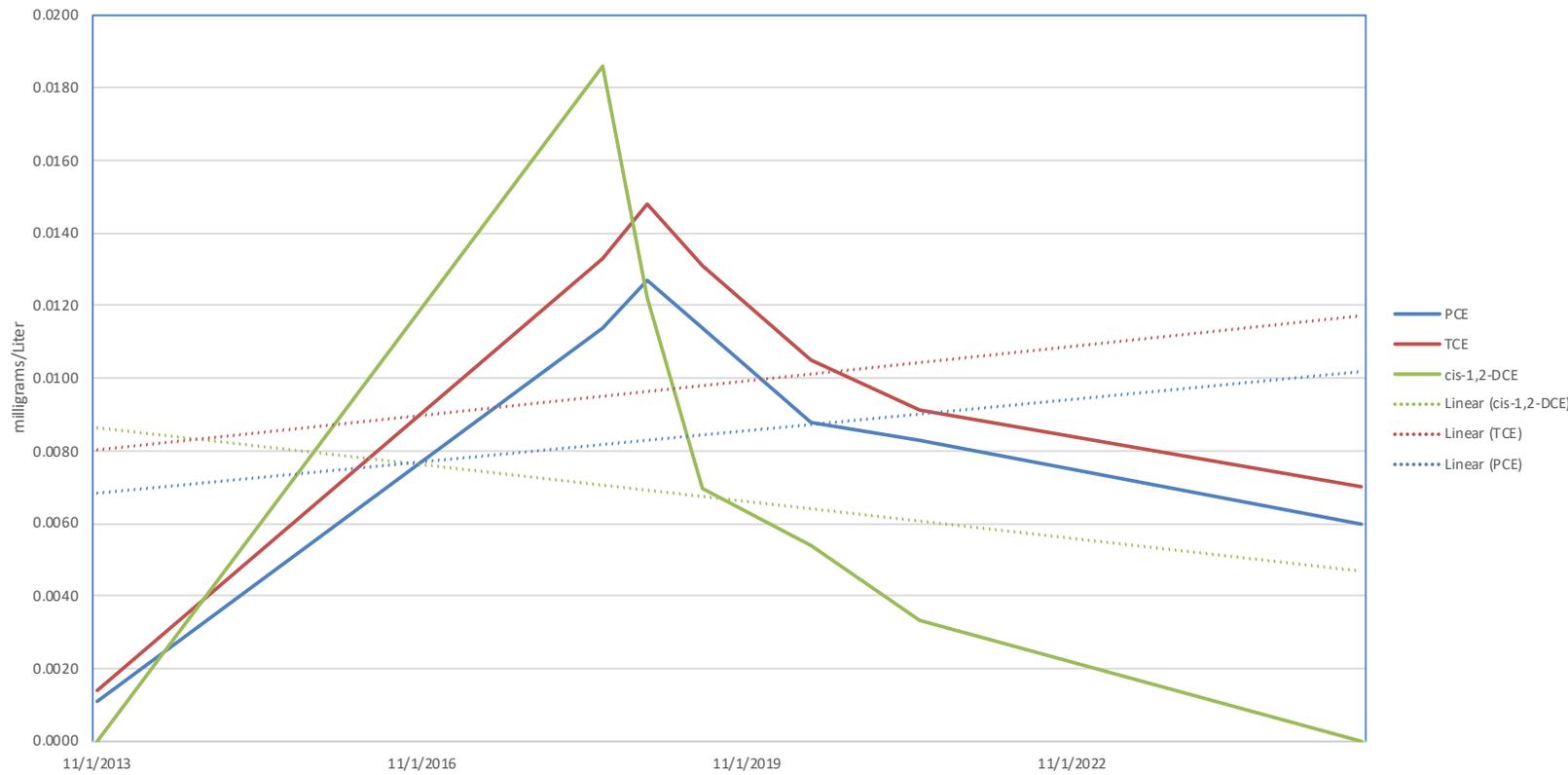
a



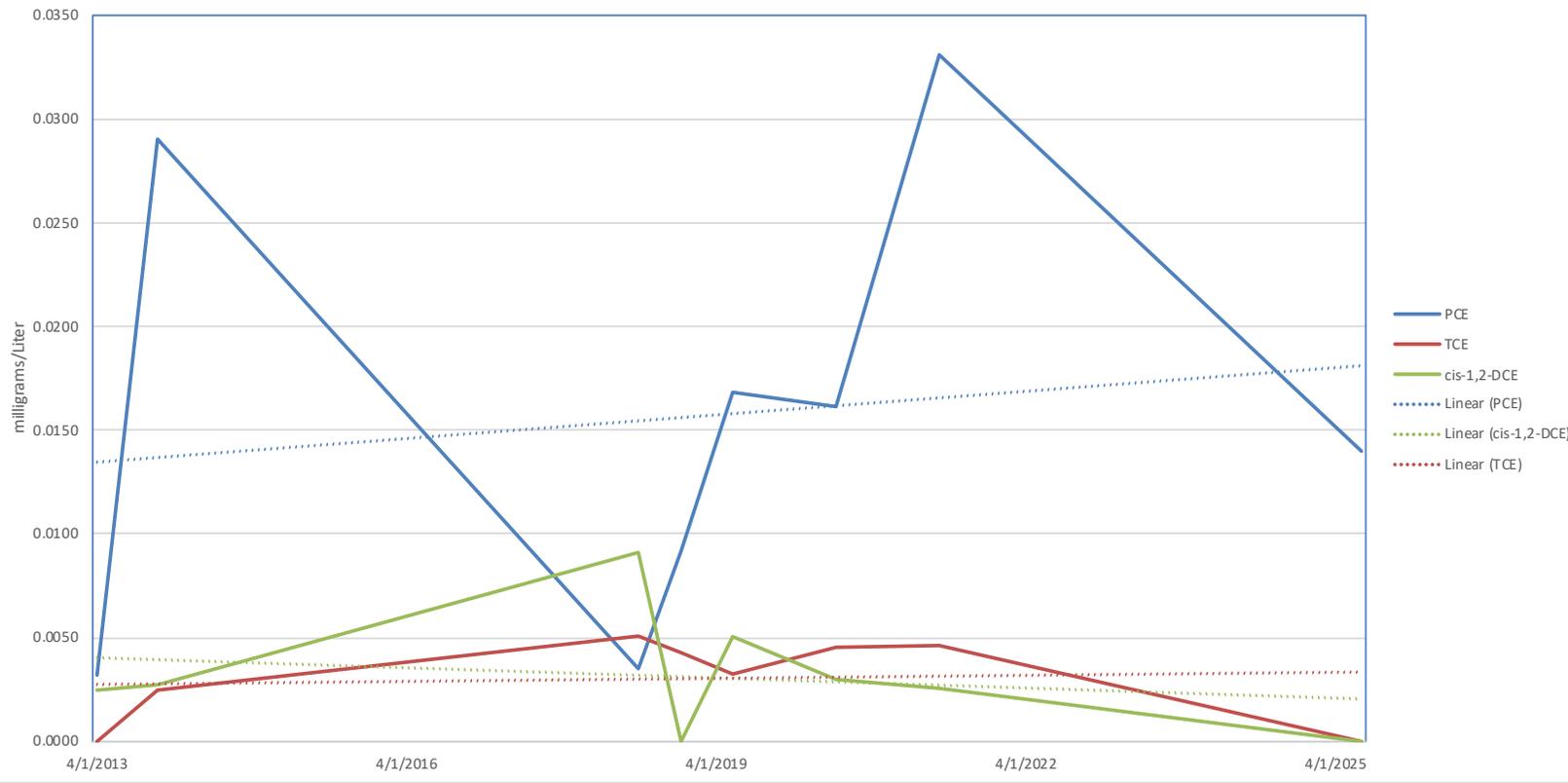
DW-1 (Concentrations versus Time)



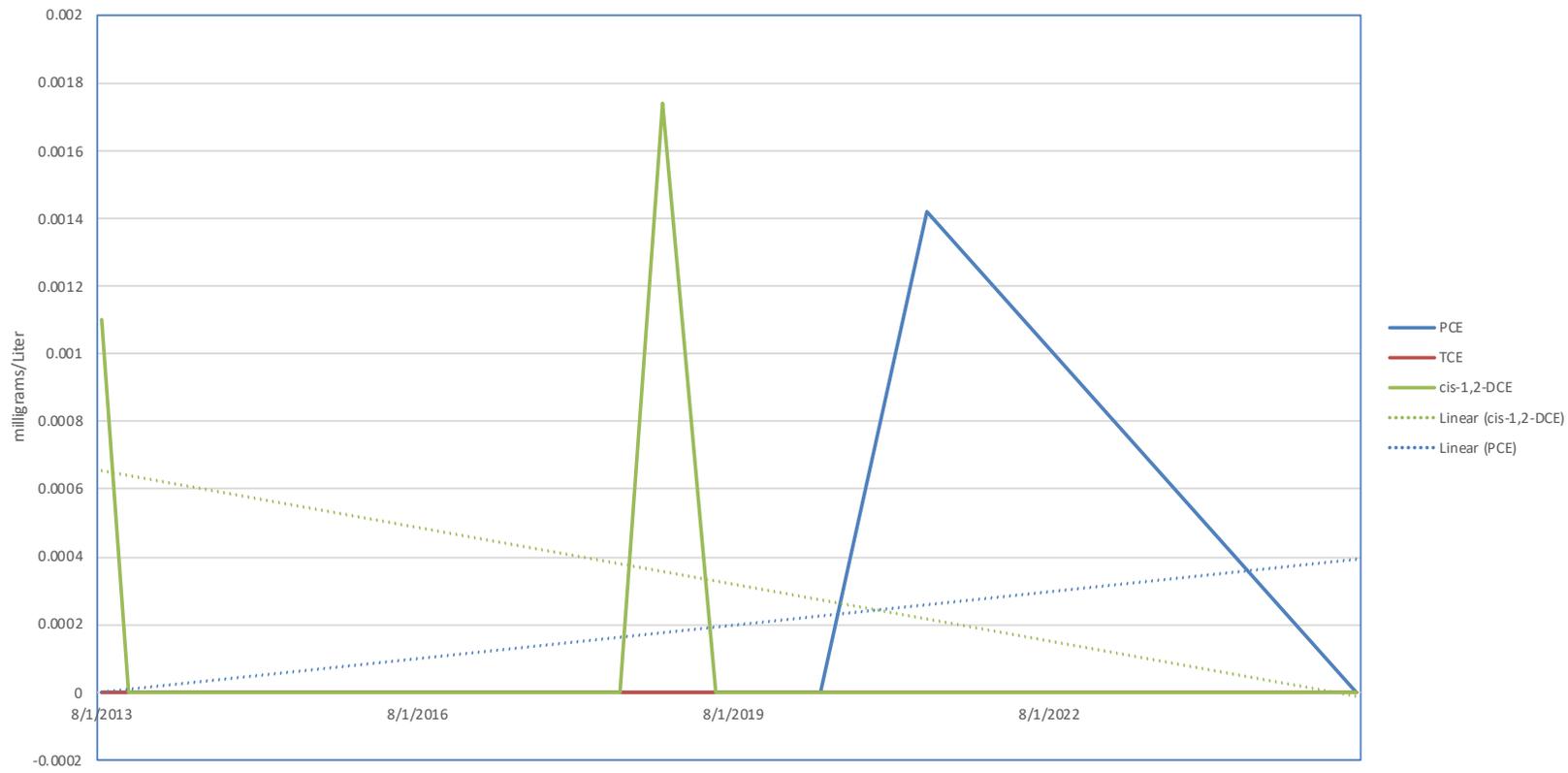
DW-2 (Concentrations versus Time)



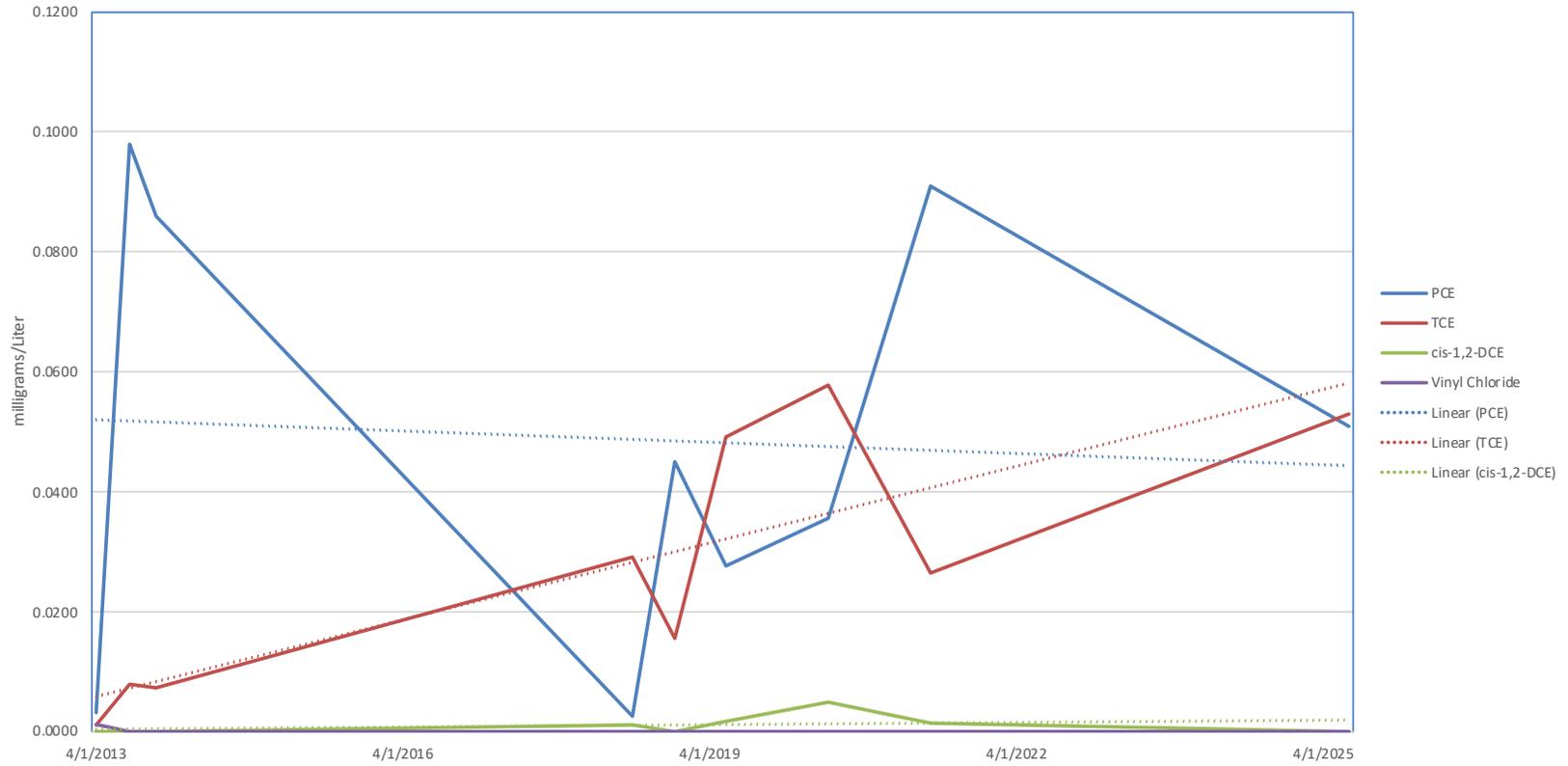
DW-3 (Concentrations versus Time)



DW-4 (Concentrations versus Time)



DW-1-D (Concentrations versus Time)



APPENDIX E
VAPOR INTRUSION RISK EVALUATION



Commercial Air Inputs

Variable	Commercial Air Default Value	Site-Specific Value
AF _{gw} (Attenuation Factor Groundwater) unitless	0.001	0.001
AF _{ee} (Attenuation Factor Sub-Slab) unitless	0.03	0.03
AT _{com} (averaging time - composite worker)	365	365
ED _{com} (exposure duration - composite worker) yr	25	25
EF _{com} (exposure frequency - composite worker) day/yr	250	250
ET _{com} (exposure time - composite worker) hr	8	8
THQ (target hazard quotient) unitless	0.1	1
LT (lifetime) yr	70	70
TR (target risk) unitless	1.0E-06	1.0E-05

Commercial Vapor Intrusion Screening Levels (VISL)

Key: I = IRIS; P = PPRTV; O = OPP; A = ATSDR; C = Cal EPA; X = PPRTV Screening Level; H = HEAST; D = DWSHA; W = TEF applied; E = RPF applied; U = user provided; G = see RSL User's Guide Section 5; CA = cancer; NC = noncancer.

Chemical	CAS Number	Does the chemical meet the definition for volatility? (HLC>1E-5 or VP>1)	Does the chemical have inhalation toxicity data? (IUR and/or RfC)	Is Chemical Sufficiently Volatile and Toxic to Pose Inhalation Risk Via Vapor Intrusion from Soil Source? ($C_{vp} > C_{ia,Target}$?)	Is Chemical Sufficiently Volatile and Toxic to Pose Inhalation Risk Via Vapor Intrusion from Groundwater Source? ($C_{hc} > C_{ia,Target}$?)	Target Indoor Air Concentration (TCR=1E-05 or THQ=1) $MIN(C_{ia,c}, C_{ia,nc})$ ($\mu g/m^3$)	Toxicity Basis	Target Sub-Slab and Near-source Soil Gas Concentration (TCR=1E-05 or THQ=1) $C_{sg,Target}$ ($\mu g/m^3$)	Target Groundwater Concentration (TCR=1E-05 or THQ=1) $C_{gw,Target}$ ($\mu g/L$)
Tetrachloroethylene	127-18-4	Yes	Yes	Yes	Yes	1.75E+02	NC	5.84E+03	2.42E+02
Trichloroethylene	79-01-6	Yes	Yes	Yes	Yes	8.76E+00	NC	2.92E+02	2.18E+01

Is Target Groundwater Concentration < MCL? ($C_{gw} < MCL$?)	Pure Phase Vapor Concentration C_{vp} (25 °C) ($\mu g/m^3$)	Maximum Groundwater Vapor Concentration C_{hc} ($\mu g/m^3$)	Temperature for Maximum Groundwater Vapor Concentration (°C)	Lower Explosive Limit LEL (% by volume)	LEL Ref	IUR ($\mu g/m^3$) ⁻¹	IUR Ref	RfC (mg/m^3)	RfC Ref	Mutagenic Indicator	Carcinogenic VISL TCR=1E-05 $C_{ia,c}$ ($\mu g/m^3$)	Noncarcinogenic VISL THQ=1 $C_{ia,nc}$ ($\mu g/m^3$)
No (5)	1.65E+08	1.49E+08	25	-		2.60E-07	I	4.00E-02	I	No	4.72E+02	1.75E+02
No (5)	4.88E+08	5.15E+08	25	8.00	CRC	4.10E-06	I	2.00E-03	I	Mut	2.99E+01	8.76E+00

Commercial Vapor Intrusion Risk

Chemical	CAS Number	Site Groundwater Concentration C_{gw} ($\mu\text{g/L}$)	Site Indoor Air Concentration C_{ia} ($\mu\text{g/m}^3$)	VI Carcinogenic Risk CDI ($\mu\text{g/m}^3$)	VI Carcinogenic Risk CR	VI Hazard CDI (mg/m^3)	VI Hazard HQ	IUR ($\mu\text{g/m}^3$) ⁻¹
Tetrachloroethylene	127-18-4	51	3.69E+01	3.01E+00	7.82E-07	8.43E-03	2.11E-01	2.60E-07
Trichloroethylene	79-01-6	53	2.13E+01	1.74E+00	7.14E-06	4.87E-03	2.44E+00	4.10E-06
<i>*Sum</i>		-	-	-	7.92E-06	-	2.65E+00	-

IUR Ref	RfC (mg/m^3)	RfC Ref	Temperature ($^{\circ}\text{C}$)\ for Groundwater Vapor Concentration	Mutagen?
I	4.00E-02	I	25	No
I	2.00E-03	I	25	Mut
	-		-	

Chemical Properties

Chemical	CAS Number	Does the chemical meet the definition for volatility? (HLC>1E-5 or VP>1)	Does the chemical have inhalation toxicity data? (IUR and/or RfC)	MW	MW Ref	Vapor Pressure VP (mm Hg)	VP Ref	S (mg/L)	S Ref	MCL (ug/L)
Tetrachloroethylene	127-18-4	Yes	Yes	165.83	PHYSPROP	1.85E+01	PHYSPROP	2.06E+02	PHYSPROP	5
Trichloroethylene	79-01-6	Yes	Yes	131.39	PHYSPROP	6.90E+01	PHYSPROP	1.28E+03	PHYSPROP	5

Henry's Law Constant (atm·m ³ /mole)	Henry's Law Constant (unitless)	H ⁺ and HLC Ref	Henry's Law Constant Used in Calcs (unitless)	Normal Boiling Point BP (K)	BP Ref	Critical Temperature T _c (K)	T _c Ref	Enthalpy of vaporization at the normal boiling point ΔH _{v,b} (cal/mol)	ΔH _{v,b} Ref	Lower Explosive Limit LEL (% by volume)	LEL Ref
1.77E-02	7.24E-01	PHYSPROP	7.24E-01	394.45	PHYSPROP	6.20E+02	YAWS	8288.72	CRC	-	
9.85E-03	4.03E-01	PHYSPROP	4.03E-01	360.35	PHYSPROP	5.71E+02	YAWS	7504.78	CRC	8.00	CRC

Table of Inputs and Outputs for Multiple Chemicals

Note: Parameters other than the chemical concentration must be entered in the MODEL sheet and must be the same for all chemicals. Warnings and errors are displayed in only on the MODEL sheet.

			Tetrachloroethylene	Trichloroethylene
Source Characteristics:	Units	Symbol	Value	Value
Source medium		Source	Groundwater	Groundwater
Groundwater concentration	(ug/L)	Cmedium	51	53
Depth below grade to water table	(m)	Ls	2.10	2.10
Average groundwater temperature	(°C)	Ts	25	25
Calc: Source vapor concentration	(ug/m3)	Cs	36916	21349
Calc: % of pure component saturated vapor concentration	(%)	%Sat	0.022%	0.004%
Chemical:	Units	Symbol	Value	Value
Chemical Name		Chem	Tetrachloroethylene	Trichloroethylene
CAS No.		CAS	127-18-4	79-01-6
Toxicity Factors				
Unit risk factor	(ug/m ³) ⁻¹	IUR	2.60E-07	see note
Mutagenic compound		Mut	No	Yes
Reference concentration	(ug/m ³)	RFc	4.00E-02	2.00E-03
Chemical Properties:	Units	Symbol	Value	Value
Pure component water solubility	(mg/L)	S	2.06E+02	1.28E+03
Henry's Law Constant @ 25°C	(atm-m ³ /mol)	Hc	1.77E-02	9.85E-03
Calc: Henry's Law Constant @ 25°C	(dimensionless)	Hr	7.24E-01	4.03E-01
Calc: Henry's Law Constant @ system temperature	(dimensionless)	Hs	7.24E-01	4.03E-01
Diffusivity in air	(cm ² /s)	Dair	5.05E-02	6.87E-02
Diffusivity in water	(cm ² /s)	Dwater	9.46E-06	1.02E-05
Building Characteristics:	Units	Symbol	Value	Value
Building setting		Bldg_Setting	Commercial	Commercial
Foundation type		Found_Type	Slab-on-grade	Slab-on-grade
Depth below grade to base of foundation	(m)	Lb	0.10	0.10
Foundation thickness	(m)	Lf	0.20	0.20
Fraction of foundation area with cracks	(-)	eta	0.001	0.001
Enclosed space floor area	(m ²)	Ab	804.00	804.00
Enclosed space mixing height	(m)	Hb	3.01	3.01
Indoor air exchange rate	(1/hr)	ach	1.50	1.50
Qsoil/Qbuilding	(-)	Qsoil_Qb	0.0030	0.0030
Calc: Building ventilation rate	(m ³ /hr)	Qb	3624.03	3624.03
Calc: Average vapor flow rate into building	(m ³ /hr)	Qsoil	10.87	10.87

Vadose zone characteristics:		Units	Symbol	Value	Value
Stratum A (Top of soil profile):					
Stratum A SCS soil type			SCS_A	Silty Clay	Silty Clay
Stratum A thickness (from surface)	(m)		hSA	6.10	6.10
Stratum A total porosity	(-)		nSA	0.481	0.481
Stratum A water-filled porosity	(-)		nwSA	0.216	0.216
Stratum A bulk density	(g/cm ³)		rhoSA	1.380	1.380
Stratum B (Soil layer below Stratum A):					
Stratum B SCS soil type			SCS_B	Not Present	Not Present
Stratum B thickness	(m)		hSB	0.00	0.00
Stratum B total porosity	(-)		nSB		
Stratum B water-filled porosity	(-)		nwSB		
Stratum B bulk density	(g/cm ³)		rhoSB		
Stratum C (Soil layer below Stratum B):					
Stratum C SCS soil type			SCS_C	Not Present	Not Present
Stratum C thickness	(m)		hSC	0.00	0.00
Stratum C total porosity	(-)		nSC		
Stratum C water-filled porosity	(-)		nwSC		
Stratum C bulk density	(g/cm ³)		rhoSC		
Stratum directly above the water table					
Stratum A, B, or C			src_soil	Stratum A	Stratum A
Height of capillary fringe	(m)		hcz	1.923	1.923
Capillary zone total porosity	(-)		ncz	0.481	0.481
Capillary zone water filled porosity	(-)		nwcz	0.424	0.424

Exposure Parameters:		Units	Symbol	Value	Value
Target risk for carcinogens	(-)		Target_CR	1.00E-06	1.00E-06
Target hazard quotient for non-carcinogens	(-)		Target_HQ	1	1
Exposure Scenario			Scenario	Commercial	Commercial
Averaging time for carcinogens	(yrs)		ATc	70	70
Averaging time for non-carcinogens	(yrs)		ATnc	25	25
Exposure duration	(yrs)		ED	25	25
Exposure frequency	(days/yr)		EF	250	250
Exposure time	(hrs/24 hrs)		ET	8	8
Mutagenic mode-of-action factor	(yrs)		MMOAF	72	72

Source to Indoor Air Attenuation Factor		Units	Symbol	Value	Value
Groundwater to indoor air attenuation coefficient	(-)		alpha	2.4E-06	3.5E-06
			Range	2.3E-06 - 2.4E-06	3.4E-06 - 3.5E-06

Predicted Indoor Air Concentration			Value	Value
Indoor air concentration due to vapor intrusion	(ug/m3)	Cia	8.8E-02	7.4E-02
		Range	8.6E-02 - 8.8E-02	7.2E-02 - 7.4E-02
	(ppbv)	Cia	1.3E-02	1.4E-02
		Range	1.3E-02 - 1.3E-02	1.3E-02 - 1.4E-02

Predicted Vapor Concentration Beneath the Foundation			Value	Value
Subslab vapor concentration	(ug/m3)	Css	2.9E+01	2.5E+01
		Range	1.8E+00 - 8.6E+02	1.5E+00 - 7.2E+02
	(ppbv)	Css	4.3E+00	4.6E+00
		Range	2.6E+01 - 1.3E+02	2.8E+01 - 1.3E+02

Diffusive Transport Upward Through Vadose Zone			Value	Value
Effective diffusion coefficient through Stratum A	(cm2/sec)	DeffA	2.6E-03	3.6E-03
Effective diffusion coefficient through Stratum B	(cm2/sec)	DeffB		
Effective diffusion coefficient through Stratum C	(cm2/sec)	DeffC		
Effective diffusion coefficient through capillary zone	(cm2/sec)	DeffCZ	1.9E-05	2.8E-05
Effective diffusion coefficient through unsaturated zone	(cm2/sec)	Defft	5.9E-05	8.6E-05

Critical Parameters			Value	Value
α for diffusive transport from source to building with	(-)	A_Param	2.4E-06	3.5E-06
Pe (Peclet Number) for transport through the foundation	(-)	B_Param	2.8E+03	2.1E+03

α for convective transport from subslab to building	(-)	C_Param	3.0E-03 3.2E+03	3.0E-03 4.2E+03
Interpretation				
			Advection is the dominant	Advection is the dominant
			Diffusion through soil is the	Diffusion through soil is the
Critical Parameters				
			Hb, Ls, Defft, ach	Hb, Ls, Defft, ach
Non-Critical Parameters				
			Qsoil_Qb, Lf, DeffA, eta	Qsoil_Qb, Lf, DeffA, eta

Risk Calculations	Units	Symbol	Value	Value
Risk-Based Target Screening Levels				
Target risk for carcinogens	(-)	Target_CR	1E-06	1E-06
Target hazard quotient for noncarcinogens	(-)	Target_HQ	1	1
Target indoor air concentration	(ug/m3)	Target_IA	4.72E+01	2.05E+00
	(ppbv)	Target_IA	6.96E+00	3.82E-01
Target groundwater concentration	(ug/l)	Target_GW	2.72E+04	1.46E+03
Incremental Risk Estimates				
Incremental cancer risk from vapor intrusion	(-)	Cancer_Risk	1.87E-09	9.65E-08
		Range	1.8E-09 - 1.9E-09	9.3E-08 - 9.7E-08
Hazard quotient from vapor intrusion	(-)	HQ	0.000504397	0.0084913
		Range	4.9E-04 - 5.0E-04	8.2E-03 - 8.5E-03
			1.4E-03 - 1.5E-03	1.2E-04 - 1.2E-04
			1.3E-04 - 1.3E-04	5.3E-05 - 5.3E-05
			5.3E-05 - 5.3E-05	1.6E-03 - 1.7E-03
			5.3E-05 - 5.3E-05	1.6E-03 - 1.7E-03
			3.0E-05 - 3.0E-05	9.2E-04 - 9.8E-04