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April 1, 2016

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Reference: **Corrective Measures Study**
Safety-Kleen Service Center
6182 Old Mendenhall Road
Archdale, North Carolina
EPA ID No. NCD 077840148
ATC Project No. SKARCHDAL2

Dear Ms. Lawson:

ATC Associates of North Carolina, P.C. (ATC) has prepared this Corrective Measures Study (CMS) on behalf of Safety-Kleen Systems, Inc. (S-K) for the Archdale, North Carolina S-K facility. The CMS was prepared in response to the request issued by the North Carolina Department of Environmental Quality Hazardous Waste Section in a letter dated November 5, 2015.

Sincerely,
ATC Associates of North Carolina, P.C.

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cc: Robert Schoepke – S-K, Todd Blake – S-K, Facility File

Corrective Measures Study
Safety-Kleen Service Center
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April 1, 2016

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1.0 INTRODUCTION

ATC Associates of North Carolina, P.C. (ATC) has prepared this Corrective Measures Study (CMS) on behalf of Safety-Kleen Systems, Inc. (S-K) for the Archdale, North Carolina S-K facility. The CMS was prepared in response to the request issued by the North Carolina Department of Environmental Quality (NCDEQ, formerly the North Carolina Department of Environment and Natural Resources) Hazardous Waste Section (HWS) in a letter dated November 5, 2015. This report describes background information, recent and historical assessment data, corrective action objectives, screening of corrective measures technologies, and recommendations for corrective measures to be taken at the site.

1.1 Site Overview

S-K currently operates a hazardous waste storage facility at 6182 Old Mendenhall Road in Archdale, Randolph County, North Carolina (35.91°, -80.01°). The site property is a 6.15 acre tract owned by S-K. The adjoining properties to the north and south are occupied by industrial/commercial businesses. The adjoining properties to the east are wooded and undeveloped closest to the site property, then residential further to the east (single-family homes and trailers). Old Mendenhall Road borders the site to the west. A site location map is included as ***Figure 1***.

S-K is engaged in the collection, replacement, accumulation and storage of spent mineral spirits, immersion cleaner, paint waste, and dry-cleaning wastes generated by industrial maintenance, automotive repair, and dry-cleaning businesses. S-K has operated a hazardous waste storage facility at the site since the 1970s. Waste materials are stored in appropriate boxes, drums, or aboveground storage tanks (ASTs) at the facility before being shipped to one of S-K's recycle centers. The recycled product is returned to S-K as reusable product. The facility is permitted under the Resource Conservation and Recovery Act (RCRA) for storage of hazardous waste. A site map showing the facility layout is included as ***Figure 2***.

1.2 Site History

The facility was issued a RCRA permit for hazardous waste storage in 1991. The RCRA permit included the US EPA Hazardous and Solid Waste Amendments of 1984 (HSWA) permit and a Hazardous Waste Management permit issued by NCDEQ. A Preliminary Review and Site Inspection was conducted by NCDEQ at the site in 1989. The inspection identified 12 Solid Waste Management Units (SWMUs). The SWMU locations are shown on ***Figures 2*** and ***3***. The RCRA permit required that a Confirmatory Sampling Plan (CSP) be implemented for SWMU-8 and SWMU-9. SWMU-8 is a former return and fill station used prior to 1985 and SWMU-9 is a former 10,000-gallon waste mineral spirits AST used prior to 1985.

A CSP was submitted on January 21, 1992, and implemented in March 1992. The results of the soil sampling activities indicated evidence of impacted soil. The sampling event and a workplan for additional assessment were documented in a Confirmatory Sampling Field Activities and Workplan for Further Assessment report dated May 21, 1992. NCDEQ responded to this report with a request for submittal of a RCRA Facility Investigation (RFI) Workplan on March 5, 1993.

In May 1993, closure of the permitted tank farm used after 1985 at the facility was conducted. This tank farm consisted of one virgin mineral spirits tank and one 10,000-gallon waste mineral spirits tank. The waste mineral spirits tank constitutes SWMU-1. Soil samples were collected in the area of the old tank farm and indicated impacted soil. Sampling conducted in the area of the old tank farm was documented in the Old Tank Farm Closure Sampling and Analysis Plan dated June 18, 1993, Old Tank Farm Soil Assessment report dated February 7, 1994, Old Tank Farm Closure report dated August 1, 1994, and Old Tank Farm Area Supplemental Soil Assessment – Metals report dated February 1, 1995.

In 1996, soil was excavated to a depth of 4 feet below ground surface (bgs) below the footprint of the former tank farm, as documented in the Old Tank Farm Closure report dated April 26, 1996. NCDEQ approved RCRA closure for the former tank farm in August 1996. However, additional investigation of impacted soils in the area of the old tank farm (AOC-1) was required. NCDEQ determined that the AOC-1 impacts could be addressed as part of the RFI concurrent with investigation of SWMU-8 and SWMU-9.

An RFI Workplan was originally submitted for the site on June 7, 1993. However, due to comments from NCDEQ, a revised RFI Workplan was submitted on May 17, 1996. No additional investigation or submittals were made for the site from 1996 through 2011 pending NCDEQ approval of the May 1996 RFI Workplan. On April 13, 2011, NCDEQ issued a letter requesting submittal of an updated RFI Workplan. In response, a Soil Investigation Workplan was submitted for the site on June 22, 2011. On April 26, 2012, NCDEQ issued a letter conditionally approving the workplan.

A soil investigation was performed at the site in May 2012 in accordance with the April 2012 workplan. Soil borings were advanced in two general source areas, the “northern source area” encompassing the area around SWMU-8 (former return and fill station used prior to 1985) and SWMU-9 (former waste mineral spirits AST used prior to 1985), and the “southern source area” encompassing the area around SWMU-1 (former permitted waste mineral spirits AST used between 1985 and 1993) and AOC-1 (impacted soil identified in the general area of the SWMU-1 tank farm). The results of the investigation indicated impacts associated with volatile organic compounds (VOCs) and semivolatile organic compounds (SVOCs) in both the northern and southern source areas. Analysis of soil samples for metals also indicated chromium at concentrations above applicable action levels, but a statistical evaluation was performed that indicated the chromium was indicative of naturally occurring background conditions. The soil investigation was documented in a Soil Investigation Report dated July 6, 2012.

Several additional phases of soil and groundwater investigation were performed between 2012 and 2015, as documented in a Soil and Groundwater Investigation Report dated February 7, 2013, Groundwater Investigation Report/Soil and Groundwater Investigation Workplan dated May 6, 2013, and Soil and Groundwater Investigation Report dated September 15, 2015. During these investigations, additional soil borings were advanced to delineate the extent of impacts in the northern and southern source areas. Based on the results of the soil sampling, ATC concluded that the extent of impacted soil was fully delineated in the northern source area and substantially delineated in the southern source area. Groundwater investigation activities included completion of a passive soil gas survey to map the downgradient plume extent and installation of eight monitoring wells. Light non-aqueous phase liquid (LNAPL) was detected in

one monitoring well (MW-4). The groundwater plume was found to extend off-site in the downgradient direction, but downgradient shallow monitoring wells (MW-6, MW-7, and MW-8) indicated no impacts above Title 15A NCAC 2L .0202 Groundwater Standards (2L Standards). An updated receptor survey was also performed that indicated nine water supply wells within 1,500 feet of the site, although no active wells were identified that appear to be threatened by the release.

NCDEQ issued correspondence on November 5, 2015, requesting a soil sampling and well installation work plan by November 19, 2015, and a CMS by February 2, 2016. The purpose of the additional sampling requested by NCDEQ was to delineate the extent of impacted soil in the southern source area and evaluate for impacted groundwater in the bedrock aquifer. A Soil and Groundwater Investigation Work Plan was submitted on November 19, 2015, and approved by NCDEQ on November 24, 2015. This report documents implementation of the sampling proposed in the workplan. In addition, as discussed during a telephone call with NCDEQ personnel on February 12, 2016, this report documents additional groundwater assessment performed at the site beyond the scope of work required by NCDEQ. The additional assessment was performed in conjunction with SVE pilot testing in order to better characterize the plume extent and site hydrogeology in the release source areas. Following submittal of an extension request for the CMS and conversations with NCDEQ, correspondence was issued by NCDEQ on February 17, 2016, indicating the revised due date for the CMS was April 2, 2016.

2.0 SITE INVESTIGATION ACTIVITIES

2.1 Soil Investigation

2.1.1 Historical Soil Investigation

Following is a summary of historical soil investigation activities performed at the site:

- March 1992 - A total of 14 samples were collected from borings B1 through B10 in the northern source area for analysis of total petroleum hydrocarbons (TPH). Select samples were also analyzed for VOCs, SVOCs, and metals. The results of the sampling indicated evidence of soil impacted above applicable action levels.

- May 1993 through January 1995 – Soil samples were collected during closure of the permitted tank farm used after 1985 in the southern source area. Several subsequent phases of investigation were also performed to evaluate the extent of impacts. A total of 63 soil samples were collected from borings #1, #2, and B-1 through B-26 for analysis of TPH, VOCs, SVOCs, and/or metals. The results of the sampling indicated evidence of soil impacted above applicable action levels.

- 1996 - Soil was excavated to a depth of 4 feet below ground surface (bgs) below the footprint of the former tank farm in the southern source area.

- May 2012 – Soil sampling was performed in the northern and southern source areas where impacts were identified historically in order to confirm current concentrations and attempt to delineate the extent of impacts. A total of 20 samples were collected from borings B-27 through B-42 for analysis of VOCs and SVOCs. The results of the investigation indicated evidence of soil impacted by VOCs and SVOCs in both the northern and southern source areas; however, the extent of impacted soil was not fully delineated. Background soil samples were also collected for analysis of selected metals. A statistical evaluation was performed that concluded that metals detected at the site were indicative of natural background conditions rather than S-K's operations. As such, no further investigation for metals at the site has been performed.

- December 2012 - Soil sampling was performed in the northern and southern source areas to attempt to delineate the extent of impacts. A total of 27 soil samples were collected from borings B-2R, B-4R, B-5R, B-8R, B-14R, B-16R, B-18R, B-28R, B-29R, B-30R, B-31R, B-34R, B-36R, B-37R, B-41R, and B-43 through B-47 for analysis of VOCs and/or SVOCs. Based on the results of the assessment, ATC concluded that the extent of impacted soil was adequately delineated in the northern source area, but not in the southern source area.

- August 2013 – Soil samples were collected from borings B-2R, B-8R, and B-16R for analysis of VOCs and/or SVOCs. The sampling locations were within the off-site wooded area southeast of the southern source area. The results of the sampling confirmed no significant surficial soil impacts which could pose a direct-contact risk in the off-site wooded area.

- June 2015 - Soil samples were collected from borings B-8R1, B-16R1, B-48 and B-49 for analysis of VOCs and/or SVOCs. Based on the results of the sampling, ATC concluded that the extent of impacted soil was adequately delineated in the southern source area; however, as discussed in Section 2.1.2, NCDEQ responded with a request for additional soil assessment.

2.1.2 January 2016 Soil Investigation

Soil Sampling

In correspondence issued on November 5, 2015, NCDEQ requested additional soil sampling to delineate the vertical extent of impacted soil in the area of prior borings B-34, B-34R, and MW-3 (note that all three of these borings were located within the same area). In response to this request, on January 6, 2016, ATC supervised Geologic Exploration (GEX) during the advancement of boring SVE-1 in the vicinity of prior borings B-34, B-34R, and MW-3. The first 5 feet of the boring was advanced using a hand auger to avoid striking potential underground utilities. Hollow-stem augers were used from 5 to 14 feet bgs. Prior sampling confirmed that impacted soil was present to a minimum depth of 14 feet bgs at this location. To delineate the vertical extent of impacts, split-spoons were employed for the collection of soil samples beginning at a depth of 14 feet bgs. Samples were collected at approximate 2-foot intervals. The split spoons were decontaminated between sample collections. Bedrock refusal was encountered at 21 feet bgs. The samples were field screened using a photoionization detector (PID). Each collected sample indicated impacts based on the PID readings. ATC submitted the deepest sample from the 19-21 feet bgs interval for analysis of VOCs. Due to the competency of the subsurface at this interval, not enough soil was recovered from the split spoon at the 19-21 foot interval for analysis of SVOCs or for the collection of a duplicate sample.

On January 8, 2016, GEX advanced an additional boring adjacent to SVE-1 for the collection of soil for analysis of SVOCs. The boring was advanced in the same manner as the January 6, 2016 boring. ATC collected a sample from the 17-19 foot interval. The sample was collected at this depth because it was the deepest depth generating sufficient split spoon recovery for collection of a sample for analysis of SVOCs as well as a duplicate sample for quality assurance/quality control (QA/QC). Soil boring logs are included in ***Appendix A***.

Soil Laboratory Analyses

Soil samples were shipped in an ice-filled cooler under chain-of-custody protocol to Analytical Services Inc. (ASI) in Norcross, Georgia for analysis. Sample SVE-1 19-21 was analyzed for VOCs by EPA Method 8260B with EPA Method 5035 preparation. Sample SVE-1 17-19 was analyzed for SVOCs by EPA Method 8270D. For QA/QC, the duplicate sample collected from boring SVE-1 17-19 was also analyzed for SVOCs by EPA Method 8270D. Not enough soil was recovered during the collection of soil sample SVE-1 19-21 for preparation of a duplicate sample. A trip blank accompanied the SVE-1 19-21 sample to the laboratory for analysis of VOCs by EPA Method 8260.

The laboratory analytical report is included in ***Appendix B***. ATC reviewed the laboratory report to confirm the data quality. Some minor data flags were reported. However, based on review of the specific data flags and detected constituents of concern (COCs), ATC concludes that the data flags do not significantly impact the data usability.

Soil Laboratory Analytical Results

The results of the laboratory analyses indicated detectable concentrations of VOCs and/or SVOCs in each of the collected samples. Concentrations were compared to the Inactive Hazardous Sites Branch (IHSB) Preliminary Soil Remediation Goals (PSRGs) dated September 2015, which are the action levels for impacted soil currently used by the NCDEQ HWS. Di-n-butyl-phthalate was detected in sample SVE-1 17-19 at a concentration above the lowest established PSRG. However, di-n-butyl-phthalate is a commonly used plasticizer and is attributed to sample or laboratory contamination. No other VOC or SVOC compounds were detected above the lowest PRSGs.

Recent and historical soil analytical data are summarized in ***Tables 1*** through ***4.*** Map view and cross-section views of soil analytical data are provided in ***Figures 4*** through ***10***. Refer to Section 4.0 of this report for a discussion of the extent of impacted soil based on the recent and historical soil investigation activities.

2.2 Groundwater Investigation

2.2.1 Historical Groundwater Investigations

Following is a summary of historical groundwater investigation activities performed at the site:

- December 2012 - Monitoring wells MW-1 through MW-5 were installed. The monitoring wells were intended to be screened within the surficial water table aquifer at each location. However, some monitoring wells were advanced to deeper depths due to complex geology, as discussed further in Section 3.0. Monitoring wells MW-1 and MW-5 were installed at the first encountered groundwater depth, which was in the unconsolidated zone. Well MW-4 was initially dry to the top of bedrock, but groundwater was encountered in shallow bedrock so the well was screened in the partially weathered rock (PWR)/shallow bedrock zone. In the borings for monitoring wells MW-2 and MW-2, no groundwater was encountered in the unconsolidated, PWR, or shallow bedrock zones. These wells were therefore installed in the deep bedrock zone. (Additional discussion of the geologic zones is detailed in Section 3.0.) Samples collected from wells MW-1, MW-4, and MW-5 indicated VOCs and/or SVOCs at concentrations above 2L Standards, although exceedences in well MW-1 were limited to bis(2-ethylhexyl)phthalate which was attributed to sample or laboratory contamination. The sampling also indicated 0.06 feet of LNAPL in well MW-4. Monitoring wells MW-2 and MW-3 were dry at the time of sampling.

- March 2013 – A groundwater sampling event was performed for the existing monitoring wells. Note that monitoring wells MW-2 and MW-3 were found to contain groundwater and could therefore be included in the sampling. The results of the sampling event indicated VOCs and/or VOCs at concentrations above 2L Standards in monitoring wells

MW-4 and MW-5. In addition, LNAPL was detected in MW-4 at a thickness of 0.01 feet.

- July 2013 – A passive soil gas survey was performed to attempt to map the contaminant plume in the wooded area southeast of the site. A total of 12 passive soil gas samplers were collected and analyzed using the methodology developed by Beacon Environmental. The results of the passive soil gas survey indicated a soil gas plume extending southeast towards the nearest surface water body.

- June/July 2015 – Monitoring wells MW-6, MW-7, and MW-8 were installed in the unconsolidated zone on top of bedrock downgradient of the site to the east and south for horizontal delineation purposes. Groundwater samples collected from the newly installed wells indicated only bis(2-ethylhexyl)phthalate at concentrations above 2L Standards, which was attributed to sample or laboratory contamination. Based on the results, ATC concluded that the downgradient plume extent was defined. Sampling of the remaining monitoring wells indicated VOCs and SVOCs at concentrations above 2L Standards in well MW-5 and LNAPL at a thickness of 0.37 feet in well MW-4.

2.2.2 January 2016 Groundwater Investigation

Monitoring Well Installations

In correspondence dated November 5, 2015, NCDEQ noted that the origin of LNAPL in monitoring well MW-4 cannot be accurately determined since the screen interval of the well is across both the PWR and bedrock zones. Therefore, NCDEQ requested installation of one bedrock monitoring well downgradient of MW-4 to verify the extent of impacted groundwater. To further clarify the depth of the LNAPL source area, ATC also installed a nested monitoring well to the top of bedrock in this area. Furthermore, ATC installed one soil vapor extraction (SVE) well and six observations wells for pilot testing activities to be performed at the site for preparation of this CMS. Although these wells were primarily intended for use during SVE pilot testing, the wells also provided valuable additional data regarding the site hydrogeology. Prior assessment activities indicated that groundwater recharge in some areas of the site was extremely slow, and prior borings may not have had sufficient time to develop groundwater. The pilot testing wells were all installed to the top of bedrock refusal in order to clarify whether the groundwater table was continuous within the overburden/PWR zone across the site.

On January 4 through 8, 2016, monitoring wells MW-9 and MW-10, vapor extraction well SVE-1, and observation wells OW-1 through OW-6 were installed by GEX under supervision by ATC personnel. Monitoring well locations are shown on ***Figure 3***. The borings were advanced from the ground surface to 5 feet bgs using hand auger methods to avoid damage to potential underground utilities. The borings for wells MW-10, SVE-1, and OW-1 through OW-6 were advanced using a drill rig with hollow stem augers. These borings were advanced to the auger refusal depth. The boring for MW-9 was advanced into bedrock using a combination drill rig with compressed air.

Monitoring well MW-9 is a Type III well with an outer casing set approximately 2 feet into bedrock, which was encountered at a depth of 9 feet bgs. The well was advanced to a depth of

23.5 feet bgs with a screened interval of 11 to 23.5 feet bgs. The boring for monitoring well MW-10 indicated refusal at 7 feet bgs and the well was set with a screen interval of 4 to 7 feet bgs. Well depths for wells SVE-1 (21 feet), OW-1 (30 feet), OW-2 (25 feet), OW-3 (17 feet), OW-4 (19 feet), OW-5 (10 feet), and OW-6 (15 feet) were set at auger refusal and were screened from 5 feet bgs to the depth of refusal. All wells installed during the January 2016 event are 4-inches in diameter, which the exception of MW-9 which is 2-inches in diameter. Wells MW-9, MW-10, and SVE-1 were set with 0.010-inch machine slotted poly vinyl chloride (PVC) well screen and solid PVC riser to the surface. Wells OW-1 through OW-6 were set with 0.020-inch machine slotted PVC well screen and solid PVC riser to the surface The annular space of each boring was filled with washed silica sand to a depth of approximately 1 to 2 feet above the top of the well screen. A bentonite seal was placed above the sand and the remainder of the annulus was filled with a grout/bentonite mixture. Well heads were each completed with a flush-mount manhole and set into a 2-foot by 2-foot concrete pad. Following installation, the monitoring wells were developed by pumping groundwater until the groundwater appeared clear and without significant sediment load.

The monitoring well locations, ground surface elevations, and top-of-casing elevations were subsequently surveyed on January 13, 2016. The elevations were tied into the previous survey data for the existing monitoring wells. Well construction details are summarized in ***Table 5*** and soil boring logs and well construction records are included in ***Appendix A.***

Depth to Groundwater Measurements

The depths to groundwater in monitoring wells MW-1 through MW-10, SVE-1, and OW-1 through OW-6 were measured on January 13, 2016. Depth to water measurements ranged from 1.24 feet bgs in MW-6 to 29.24 feet bgs in MW-2. Observations wells OW-5 and OW-6 were dry during the gauging event. Depth to groundwater data are summarized in ***Tables 5*** and ***6***. A groundwater elevation contour map is included as ***Figure 11***. Refer to Section 3.0 for a discussion of the groundwater flow direction and site hydrogeology.

Free Product Measurements

LNAPL was detected in monitoring well MW-4 during the previous sampling events and during the recent sampling event. A sorbent was placed in well MW-4 during the prior sampling event in July 2015. On January 4, 2016, during the commencement of drilling activities, the sorbent sock was removed from the monitoring well. On January 13, 2016, the depths to groundwater and LNAPL were measured using an oil/water interface probe. The LNAPL thickness was measured at 0.12 feet. The sorbent sock was not replaced following the gauging so that actual product levels could be determined in the monitoring well during pilot testing activities performed at the site, as discussed further in Section 6.1.1. Historical free product measurements are summarized in ***Table 6.***

Groundwater Sampling

Groundwater samples were collected from monitoring wells MW-1 through MW-3, MW-5 through MW-10, SVE-1, and OW-1 through OW-4 on January 13 through 15, 2016. A sample was not collected from MW-4 due to the presence of LNAPL. Observations wells OW-5 and

OW-6 were dry at the time of sampling. A 12-volt peristaltic pump and dedicated polyethylene tubing were used to collect groundwater samples using standard low-flow sampling protocol. A YSI water quality meter and flow-through cell were used to monitor temperature, conductivity, dissolved oxygen (DO), pH, and oxygen-reduction potential (ORP) during purging. A turbidity meter was also used to monitor turbidity during purging. Samples were collected after the water quality parameters stabilized between readings consistent with EPA guidelines. For QA/QC, a duplicate sample was collected from well MW-1.

Groundwater Laboratory Analyses

Groundwater samples were collected in laboratory supplied containers and shipped in an ice-filled cooler under chain-of-custody protocol to ASI for analysis. Samples were analyzed for VOCs by EPA Method 8260 and SVOCs by EPA Method 8270. For QA/QC, the duplicate sample collected from well MW-1 was also analyzed for VOCs by EPA Method 8260 and SVOCs by EPA Method 8270, and a trip blank accompanied the samples to the laboratory for analysis of VOCs by EPA Method 8260.

The laboratory analytical report is included in ***Appendix B***. ATC reviewed the laboratory report to confirm the data quality. Some common data flags were reported. However, based on review of the specific data flags and detected COCs, ATC concludes that the data flags do not significantly impact the data usability.

Groundwater Laboratory Analytical Results

The results of the laboratory analyses indicated VOCs and/or SVOCs at concentrations exceeding 2L Standards in samples collected from wells MW-5, MW-9, SVE-1, OW-2, OW-3, and OW-4. Recent and historical groundwater analytical data are summarized in ***Table 7***. Cross-section and map views of groundwater analytical data are provided in ***Figures 7*** through ***10*** and ***Figure 12***, respectively. Refer to Section 4.0 of this report for a discussion of the extent of impacted groundwater based on the recent and historical groundwater investigation activities.

3.0 TOPOGRAPHY, GEOLOGY, & HYDROGEOLOGY

3.1 Topography and Surface Water Drainage

3.1.1 Regional Topography and Surface Water Drainage

According to the United States Geological Survey (USGS) topographic map for the site area (see ***Figure 1***), the site is located in an area of high topographic relief, with the general topographic high along Old Mendenhall Road and a downward slope towards the southeast. The nearest mapped surface water body in the downgradient direction is a pond located approximately 1,330 feet to the south. The pond discharges into an unnamed tributary which in turn discharges into the Uwharrie River further south of the site.

3.1.2 Site Topography and Surface Water Drainage

Based on site observations, the topography in the developed portion of the site has been altered by cut and fill operations. The area downgradient of the plume consists of wooded land which slopes downward to the southeast. Based on site observations performed during a rain event in March 2013, a network of intermittent drainage features is present within the wooded area. Several obvious stream sinks and seeps were observed within these drainage features, which indicate a disappearing and reappearing regime. The upper reaches of the stream network (*i.e.* near the S-K facility) are ephemeral and were dry at the time of the field survey. Since the survey occurred during a significant rainfall event, the lack of surface flow in these areas at the time of the survey indicates a component of subsurface flow that contributes to the lower reaches of the local drainage network. In the lower reaches, significantly higher flow was observed, and the stream channel has incised into the surrounding soil and bedrock to depths of up to approximately 4 feet bgs. In the area directly downgradient of the on-site source areas, the only observed seeps were along the bank of the stream directly downgradient to the southeast. No evidence of oil sheens, stressed vegetation, or other signs of possible contamination were discovered during the site walk. ***Figure 3*** shows the locations of drainage features in the wooded area downgradient of the site.

3.2 Geology

3.2.1 Regional Geology

The site is located within the Piedmont Physiographic Province of North Carolina. This province extends from the Coastal Plain to the east to the base of the Blue Ridge Mountains to the west. The geology of the Piedmont is a complex assemblage of metamorphic, igneous, and sedimentary rocks, most of which have undergone uplift, folding and faulting, alteration, and erosion. The major rock units and structural features are typically northeast-southwest trending. Bedrock depth varies from ground surface at outcrops to depths of 70 or more feet in areas of readily weathered material. The bedrock of the Piedmont typically weathers in the shallow subsurface to a variable thickness of unconsolidated material termed regolith. The regolith may include alluvium, a soil zone, and a zone of weathered decomposed bedrock known as saprolite. Alluvial and terrace deposits are typically restricted in area and saprolite dominates the unconsolidated geology. Saprolite is the product of chemical and mechanical weathering of the underlying bedrock and

often reflects the texture of the rock from which it was formed. Saprolite generated from the weathering of granitic rocks may be quartz-rich and sandy textured, while rocks poor in quartz and rich in feldspar and other soluble materials generally form a more clayey saprolite. A transition zone of partially weathered rock (PWR) often exists at the base of the regolith between the soil-saprolite and unweathered bedrock (LeGrand, 2004).

According to the Geologic Map of North Carolina (North Carolina Geological Survey, 1985) and the Geologic Map of Region G, North Carolina (North Carolina Geological Survey, 1982), the site lies within the Carolina Slate Belt. The Carolina Slate Belt includes volcanic and sedimentary rocks that have undergone low grade metamorphism and are intruded by a variety of plutons. The bedrock underlying the site is described as felsic intrusive complex, which consists of white to gray, fine to coarse-grained, massive to foliated, metamorphosed bodies of varying assemblages of felsic intrusive rock types, with granite and diorite predominating. In some areas, the complex includes mineralogical gradations within a single body, while in other areas it includes quartz monzonite. Primary minerals include quartz, plagioclase, potassium feldspar, muscovite, and biotite; metamorphic minerals include chlorite, epidote, and sericite. Local northeast-southwest trending shearing is mapped to the south of the site. Mafic intrusions are common in the area, but none are mapped in the immediate site vicinity. The site is mapped within approximately 1,000 feet of the boundary with a separate unit of intermediate intrusive rocks to the northeast. This unit is described as gray to greenish gray, medium to coarse-grained, massive, well-jointed metamorphosed bodies, which include diorite and gabbro.

According to the Soil Survey of Randolph County, the source areas at the site are underlain by Wilkes-Poindexter-Wynott complex soils. These soils are described as residuum or saprolite derived from diorite, gabbro, diabase, and/or gneiss. The shallow soils typically consist of loam, clay loam, and sandy clay loam underlain by bedrock at depths ranging from approximately 2 to 7 feet bgs (although note the depth to bedrock encountered during site drilling operations was deeper as discussed in Section 3.2.2). The depth to water is reported as greater than 7 feet bgs.

3.2.2 Site Geology

Based on soils encountered during drilling operations, the site geology can be conveniently divided into three depth zones: the unconsolidated zone, the partially weathered rock (PWR) zone, and the bedrock zone. The shallowest zone consists of unconsolidated and poorly sorted mixtures of sand, silt, and clay. These soil types are consistent with typical soils derived from underlying granite and diorite bedrock. The unconsolidated zone is estimated to extend from the surface to depths of approximately 7 to 30 feet bgs. The thickness of the unconsolidated zone generally decreases from northwest to southeast across the site. Note that some fill material, including concrete and brick, was encountered above the unconsolidated zone in the southern source area (borings B-37 and B-40).

The unconsolidated zone is underlain by the PWR zone followed by competent bedrock. The thickness of the PWR zone and the depth to bedrock also decrease from northwest to southeast across the site. In the most upgradient well to the northwest (MW-1), the PWR zone is estimated to begin at a depth of approximately 17 feet bgs and no competent bedrock was encountered to the boring termination depth of 25 feet bgs. In the most downgradient well to the southeast (MW-7), the PWR zone is absent and bedrock was encountered at a depth of 9 feet bgs.

Detailed bedrock descriptions cannot be feasibly provided due to the air rotary drilling technology. However, based on the limited available data, rock cuttings were primarily composed of gray rock chips with a composition that appeared consistent with metamorphosed granite or diorite as reported in regional bedrock descriptions. Rock cuttings with a green appearance were encountered at approximately 13 to 15 feet bgs in the boring for well MW-4. The green rock cuttings may be indicative of a mafic intrusion, but are more likely reflective of the weathered mineral spirits product detected in this boring. Bedrock outcrops are present in the stream bed downgradient of the site. Observed bedrock in this area is described as weathered, metamorphosed granite to diorite in composition, weakly foliated, and slightly friable where exposed. This is consistent with published references regarding geology in the site vicinity and bedrock types encountered during the installation of bedrock monitoring wells at the site in December 2012. No evidence of diabase dikes was observed in the stream beds.

A cross-section location map is included as ***Figure 7*** and three cross-sections depicting the subsurface geology are included as ***Figures 8, 9,*** and ***10.***

3.3 Hydrogeology

3.3.1 Regional Hydrogeology

Groundwater in the Piedmont region is a two-part system comprised of the regolith and the underlying bedrock. The two units are interconnected and commonly act as one hydrogeologic unit. Precipitation infiltrates the regolith until it reaches the saturated zone where it is stored in intergranular pore spaces. Some groundwater drains further downward into bedrock fracture zones, while another component flows through the regolith parallel to the bedrock surface. A transition zone of PWR between the regolith and bedrock may exist and, if present, often serves as a zone of rapid groundwater flow. In some cases the saturated zone may be absent in the regolith, in which case the saturated zone is contained entirely within bedrock. The water table depth may vary from near land surface in valleys to as much as 30 to 50 feet below land surface beneath hills.

In areas underlain by massive granite and gabbro (such as the subject site), the regolith is thin and the bedrock unit is poorly fractured. Because igneous and metamorphic rocks consist of interlocking crystals, primary porosity is very low, generally less than 3 percent. Secondary porosity of crystalline bedrock resulting from fracturing and weathering ranges from 1 to 10 percent, but it more often in the lower range of 1 to 3 percent. The yield of individual wells varies greatly. Wells located where the regolith zone is thick near topographic lowlands are likely to have higher yield, while wells located where the regolith zone is thin near topographic uplands (such as the subject site), are likely to have lower yields.

Precipitation is the primary source of groundwater recharge in the area. Extreme variations in precipitation may occur locally. During droughts groundwater storage in the regolith zone may be greatly reduced or diminish completely. In addition, the water table fluctuates seasonally with a range of 2 to 10 feet. The water table is generally highest in late winter/early spring, and lowest in late summer/early fall.

The discharge zone for groundwater in both the regolith and bedrock is most often at downgradient streams. The pathway of groundwater flow towards streams in the regolith is generally parallel to topography, but with less relief. In contrast, the pathway of groundwater flow towards streams in bedrock may be deeper and longer and require groundwater to move erratically through fractured bedrock. In transit to discharge zones, some groundwater may discharge to small springs and seeps at topographic depressions, especially near the base of valleys. Springs and seeps at higher elevations are most commonly associated with wet weather conditions and suggest poorly fractured underlying bedrock (LeGrand, 2004).

3.3.2 Site Hydrogeology

Seventeen wells (monitoring, observation, and vapor extraction) were installed across the site during recent and prior assessment activities. Thirteen wells are installed in the unconsolidated and/or PWR zones, one well is installed in the PWR and bedrock zones, and three wells are installed in the bedrock zone. Well construction details are summarized in ***Table 5***.

In the unconsolidated and PWR zones, the depths to groundwater measured historically range from 1.24 feet to 17.60 feet bgs. The depth to groundwater generally decreases from northwest to southeast across the site. Note that ATC previously speculated that the shallow groundwater in monitoring well MW-5 could be indicative of a discontinuous perched zone. However, in January 2016, ATC performed a groundwater recovery event on MW-5 in an attempt to dewater the monitoring well and remove the perched groundwater. Based on the groundwater recharge measured during the event, ATC concluded that the water in well MW-5 likely does not represent a discontinuous perched zone. The groundwater recovery event is discussed further in Section 6.1.1. In addition, ATC previously speculated that no groundwater was present in the unconsolidated/PWR zones in some areas of the site, based on dry conditions encountered during drilling of wells MW-2 and MW-3. However, the SVE and observation wells installed at the site during the recent investigation in these areas eventually developed groundwater. As such, ATC concludes that the water table is continuous across the unconsolidated/PWR zone, but exhibits low permeability and slow recharge in some areas.

The depth to groundwater measured in the bedrock zone is variable based on the installed well depth. Wells MW-2 and MW-3 are installed in the deep bedrock zone between 45 and 61 feet bgs. The depths to groundwater measured historically in these wells range from 24.62 to 53.79 feet bgs; although the deepest water level measurements were collected one week following well installation and groundwater may have not fully recharged into the wells at that time. Monitoring wells MW-4 and MW-9 are screened within the PWR and shallow bedrock. The depths to groundwater measured in these wells range from 7.98 to 13.59 bgs. (Note well MW-4 has a stick-up casing, so these depths reflect the depth from ground surface versus the depth from top of casing.) Historical depth to groundwater data are summarized in ***Table 6***.

Based on recent and historical depth to water measurements, groundwater appears to flow primarily to the southeast in the unconsolidated/PWR zone. This groundwater flow direction is consistent with topography and surface water drainage features. A groundwater elevation contour map based on the January 2016 gauging event for the unconsolidated/PWR zone is included as ***Figure 11***. The horizontal hydraulic gradient based on the January 2016 data ranges from 0.081 feet per foot to the southwest (using wells MW-5 and OW-3) to 0.144 feet per foot to

the southeast (using wells MW-5 and MW-7). The vertical hydraulic gradient ranges from 0.275 feet per foot (determined with wells MW-3 and SVE-1) to 0.304 feet per foot (determined using wells MW-9 and MW-10), both with a downward flow. Based on slug testing performed on monitoring well MW-4 on March 7, 2013, the hydraulic conductivity in the area of well MW-4 is estimated at approximately 0.18 feet per day (ft/d). However, due to the complex hydrogeology, the hydraulic conductivity across the site as a whole may vary considerably.

4.0 EXTENT OF IMPACTED SOIL AND GROUNDWATER

4.1 Extent of Impacted Soil

Recent and historical soil analytical data are summarized in ***Tables 1*** through ***4.*** Map view and cross-section views of soil analytical data are provided in ***Figures 4*** through ***10***.

Historical soil sampling events were conducted at the site between 1992 and 1995. Historical soil analytical data collected in the northern and southern source areas are summarized in ***Tables 1*** and ***2***. More recent soil sampling events were conducted at the site between 2015 and 2016. Recent soil analytical data collected in the northern and southern source areas are summarized in ***Tables 3*** and ***4***. As discussed in detail in the previous investigation reports for the site, all areas of impacted soil identified during the historical 1992 and 1995 assessments are either encompassed in the current estimated extent of impacted soil plumes, or were resampled in 2012. Therefore, ATC focused on the post-2012 analytical data to confirm the extent of impacted soil. Soil analytical data were compared to the PSRGs dated September 2015. The values indicated in bold on the referenced tables represent concentrations above the lowest of the Protection of Groundwater or Residential PSRGs.

Based on the soil analytical data collected to date, two areas of impacted soil are present at the site and are identified as the northern source area and southern source area. The northern source area encompasses the area around SWMU-8 (former return and fill station used prior to 1985) and SWMU-9 (former waste mineral spirits AST used prior to 1985). A soil analytical map for the northern source area is included as ***Figure 4***. As shown, the horizontal extent appears adequately delineated to the north, east, south, and southwest. To the southwest, boring B-43 was intended to be a perimeter delineation boring, but impacts were detected in this boring above action levels. This boring is located adjacent to the current return and fill station and warehouse building. Based on the data collected from this boring, it appears likely that impacted soil extends below the building in this area. The exact extent of impacted soil below the building has not been confirmed, but borings B-4R and B-33 were advanced on the opposite side of the warehouse as part of the southern source area assessment and contained no impacts above action levels. Considering the impracticality of sampling inside the building, ATC considers the borings on the other side of the building sufficient for delineation in this area.

Vertically, the extent of impacted soil associated with the northern source area also appears adequately delineated. At all boring locations showing impacts above action levels, deeper samples have been collected showing no exceedances. Based on the deeper sample data, the vertical extent of impacted soil is limited to depths ranging from 7.5 to 12.5 feet bgs. Note that the impacted soil intersects the groundwater table in some areas. The vertical extent of impacted soil is depicted on ***Figures 8***, ***9***, and ***10***.

The southern source area encompasses the area around SWMU-1 (former permitted waste mineral spirits AST used between 1985 and 1993) and AOC-1 (impacted soil identified in the general area of the SWMU-1 tank farm). A soil analytical map for the southern source area is included as ***Figure 5***. As shown, impacts in this area encompass the area below the former tank farm and extend off-site below the wooded area to the southeast. The horizontal extent of impacts appears reasonably delineated. Although no post-2012 borings have been advanced

southeast of the plume in the wooded area, pre-1995 borings B-17 and B-19 in this area contained no significant impacts.

Vertically, the extent of impacted soil associated with the southern source area also appears adequately delineated. At the majority of boring locations showing impacts above action levels, deeper samples have been collected showing no exceedances, or the data indicated the impacted soil intersects the groundwater table. Based on the deeper sample data, the vertical extent of impacted soil is limited to depths ranging from 7.5 feet bgs to below the groundwater table, which occurs at depths ranging from approximately 5 to 15 feet bgs. Note that vertical delineation samples could not be collected in some areas due to direct-push refusal. However, additional assessment does not appear warranted in these areas because the base of known impacts is in close proximity to the water table, and the proposed remedial actions assume that the impacts extend to the groundwater table. Refer to Section 6.0 for additional discussion of the proposed corrective measures. The estimated vertical extent of impacted soil is depicted on ***Figures 8***, ***9***, and ***10***. A map indicating the extent of impacted soil for the entire site is included as ***Figure 6***.

4.2 Extent of Impacted Groundwater

Based on the data collected during the January 2016 sampling event, the extent of groundwater impacted above 2L Standards encompasses monitoring wells MW-4, MW-5, MW-9, SVE-1, OW-2, OW-3, and OW-4. In addition, MW-4 contained LNAPL at a thickness of 0.12 feet. Based on the locations of these monitoring wells, the plume generally covers the northern and southern source areas and extends downgradient and off-site to the southeast. COCs detected above the 2L Standard during the January 2016 sampling event include benzene, chlorobenzene, 1,2-dichloroethane, 1,4-dichlorobenzene, p-isopropyltoluene, naphthalene, bis(2-ethylhexyl)phthalate, benzo(a)anthracene, benzo(a)pyrene, dibenz(a,h)anthracene, 2-methylnaphthalene, indeno(1,2,3-cd)pyrene, and benzo(b)fluoranthene.

In the northern and southern source areas, the vertical extent of impacted groundwater appears limited to the unconsolidated and PWR zones. In the downgradient portion of the plume, LNAPL is present in well MW-4 and concentrations of VOCs were detected above NC 2L Standards in nested bedrock well MW-9. However, ATC does not consider additional bedrock delineation to be warranted based on the generally low concentrations in well MW-9. At a minimum, ATC recommends additional groundwater monitoring prior to making conclusions regarding impacts in the bedrock aquifer. Note that use of an air rotary drilling rig to install Type III bedrock wells in the wooded area would be difficult due to the wooded conditions and strong topography. In the interim, the corrective measures will be focused on the groundwater source area, which is clearly in the area of well MW-4. Refer to Section 6.0 for additional discussion of the proposed corrective measures. A groundwater analytical data map is included as ***Figure 12***.

5.0 CORRECTIVE MEASURES STUDY

5.1 Corrective Action Objectives

The objectives of the corrective action are as follows:

- Reduction of VOC and SVOC concentrations in soil to below the lower of the Protection of Groundwater PSRGs or the Residential PSRGs;
- Removal of LNAPL; and
- Reduction of VOC and SVOC concentrations in groundwater to below NC 2L Groundwater Standards.

The referenced action levels for soil and groundwater are summarized in the attached ***Tables 1*** through ***4*** and ***Table 7***, respectively. Note that the corrective actions proposed in this CMS are intended to achieve the conservative objectives detailed above. However, depending on the effectiveness of the remedial efforts, S-K may propose alternate corrective action objectives at a later date which rely on risk assessment calculations or land use restrictions. If alternate objectives are proposed at a later date, those objectives and the rationale for their selection will be presented to NCDEQ for review.

5.2 Preliminary Screening of Corrective Measures Technologies

ATC conducted a preliminary screening of available remedial technologies and their potential applicability to impacts present at the subject site. During this screening, the site characteristics, waste characteristics, and technology limitations were taken into account. Based on evaluation of these factors, the technologies listed below were selected for additional evaluation.

Technologies for Groundwater Remediation:

- Air sparging
- Pump and treat
- Dual-phase extraction (DPE)
- In-situ chemical injection
- Monitored natural attenuation

Technologies for Soil Remediation:

- Soil excavation
- In-situ chemical injection
- Soil vapor extraction (SVE)

ATC conducted further evaluation of each of the corrective measures alternatives referenced above with regard to their applicability to the subject site. The results of this evaluation are documented in the following sections.

5.3 Evaluation of Corrective Measures Alternatives

5.3.1 Evaluation of Corrective Measures Alternatives for Impacted Groundwater

Air Sparging

Air sparging involves the injection of air under pressure beneath the deepest point of groundwater impact, usually through well points. The induced air flow enhances the volatilization of groundwater contaminants. Air bubbles percolate past dissolved and adsorbed contaminants, which are volatilized and carried upward into the unsaturated (vadose) zone. Additionally, air sparging enhances aerobic biodegradation of hydrocarbon constituents by providing oxygen to the microorganisms that break down the contaminants into carbon dioxide and water. Air sparge systems are implemented by installing sparge wells consisting of slotted PVC piping in impacted groundwater and applying air pressure to force the injection of air. SVE is typically performed in conjunction with air sparging to remove vapors from the vadose zone generated by sparging (see Section 5.3.2 for a discussion of SVE technology).

Air sparging is typically most effective for VOCs and may have limited effectiveness for SVOCs. Many chemicals of concern at the site consist of SVOCs, which could inhibit the effectiveness of air sparging in achieving the remedial goals. Air sparging also typically is not effective for LNAPL remediation, which is one of the remedial goals for the subject site. Another challenge associated with air sparging for the subject site is complex geology, which could result in migration of injected air and/or vapors in unexpected directions. Based on these factors, ATC does not consider air sparging to be the most effective corrective measure the most effective corrective measure for the subject site.

Groundwater Pump and Treat

Traditional groundwater pump and treat technology utilizes down-well pumps (electric or pneumatic) to remove impacted groundwater from the aquifer, where it is treated ex-situ, and then discharged. Pump and treat can be very effective when the primary objective is plume containment. However, rebound is often a concern, particularly at sites with LNAPL since after pump and treat is discontinued the groundwater level rises to come into contact with the LNAPL smear zone. Additional concerns associated with pump and treat include high capital equipment costs, a need for permanent infrastructure (wells, trenching, and central system location), long-term O&M, and discharge permitting. Based on these factors, ATC does not consider groundwater pump and treat to be the most effective corrective measure for the subject site.

Dual-Phase Extraction (DPE)

DPE is similar to pump and treat in that groundwater is removed, treated ex-situ and then discharged. However, with DPE, high vacuum pumps are used to remove both groundwater and vapors from the smear zone. As such, remediation efforts are typically more effective and the rebound issues associated with traditional pump and treat are less of a concern. DPE is also commonly effective for LNAPL remediation, which makes it a favorable option for the subject site.

DPE can be performed using a traditional system that is operated continuously, or over short term events on individual wells. Challenges associated with a traditional DPE system include high capital equipment costs, a need for permanent infrastructure (wells, trenching, and central system location), long-term O&M, and discharge permitting. Based on these challenges, ATC does not consider a traditional DPE system to be the most favorable corrective measure for the subject site.

Another option for DPE is to perform short term events on individual wells, which are commonly referred to as aggressive fluid vapor recovery (AFVR) events. AFVR uses traditional DPE to simultaneously remove vapors and liquids from the subsurface, but extraction is commonly performed using vacuum trucks and therefore does not require a permanent infrastructure. During the event, vacuum piping is commonly placed in the designated wells approximately 15 to 20 inches below the free product/water table interface. Throughout the event, the intake is adjusted to maximize the vapor emissions. The media removed from the subsurface is transferred to a dedicated container and properly disposed of at the conclusion of the event. AFVR events typically run for eight hours. Following the event, operations are dismantled and equipment associated with the event is removed from the site. AFVR events are typically performed on a quarterly or semiannual basis. ATC considers AFVR events to be the most favorable corrective measure for remediation of LNAPL at the subject site, as discussed further in Section 6.1.2.

In-Situ Chemical Injection

A variety of products can be injected into the groundwater to remediate COCs in-situ. Many injection products fall into one of two broad categories, those that remediate COCs via chemical oxidation and those that remediate via bioremediation. A variety of chemical oxidants are available that are capable of chemically converting COCs to harmless by-products in a very short timeframe. These oxidants include Fenton's Reagent, permanganate, ozone, persulfate, and others. In contrast, bioremediation involves the addition of amendments designed to enhance degradation of COCs by naturally occurring or injected subsurface bacteria. Biodegradation can occur via either aerobic or anaerobic processes. With aerobic biodegradation, the contaminant may be used by bacteria as a primary food source. The availability of sufficient oxygen is typically a limiting factor with aerobic biodegradation, so many injection products focus on providing additional oxygen to the aquifer. With anaerobic biodegradation, the contaminant is used as an electron acceptor to aid in respiration. Bioremediation is typically a longer term process than chemical oxidation, but not as long term as traditional technologies such as air sparge and pump and treat.

Most injection products require submittal of a permit application or Notice of Intent to the NCDEQ Underground Injection Control Group. The injection products are placed below ground via either injection wells or temporary direct-push points. Chemical injection is typically most cost-effective for smaller areas (either source area treatment or small plumes) due to the number of injection points required to cover larger areas. However, the installation of injection points in a permeable reactive barrier array may be a suitable alternative for larger plumes. Once products are injected, follow up activities are typically limited to groundwater monitoring, and on-going O&M is not required.

The most common difficulties associated with chemical injection include problems distributing injectate throughout the impacted aquifer due to heterogeneous geology, limited effectiveness due to site geochemical conditions which can strongly influence success rates, and inapplicability of certain injectates for certain COCs. The complex geology at the site is considered a significant challenge for implementation of chemical injection at the subject site. Distribution of injected materials would likely be limited by the low permeability in certain areas of the site. In addition, chemical injection is commonly not successful for LNAPL remediation. Based on these factors, ATC does not consider in-situ chemical injection to be the most effective corrective measure for the subject site.

Monitored Natural Attenuation

Natural attenuation occurs when natural physical, chemical, and biological processes act to reduce contaminant concentrations with no active remedy implemented. On-going groundwater monitoring is typically performed to monitor natural attenuation and confirm that the groundwater plume is stable or shrinking. Natural attenuation can be an excellent alternative for sites with fairly low contaminant concentrations where groundwater monitoring and/or geochemistry data confirms that natural attenuation is occurring. The primary costs associated with natural attenuation are the costs associated with on-going groundwater monitoring for an extended period (years). If groundwater monitoring is performed for a short timeframe, the costs for natural attenuation monitoring can be significantly less than other remedial options. However, if groundwater monitoring is required for a long timeframe, the monitoring costs may outweigh the costs of other active remedies.

For the subject site, only a limited number of groundwater monitoring events have been conducted so long term trends in natural attenuation are difficult to evaluate. However, dissolved concentrations are not excessive and the plume extent appears fairly limited. ATC recommends implementation of AFVR events to address the source area combined with period groundwater sampling events to monitor natural attenuation of the dissolved phase plume. Additional details regarding the proposed corrective measures are discussed in Section 6.1.

5.3.2 Evaluation of Corrective Measures Alternatives for Impacted Soil

Soil Excavation

Soil excavation involves the physical removal of impacted soil using excavation equipment. Once removed, the soil is typically disposed of off-site at a permitted facility. Options are available for on-site soil treatment and re-use instead of off-site disposal, but these options typically require extensive permitting and on-site treatment areas and are therefore not considered appropriate for the subject site. Excavation would be an effective method of remediating the impacted soil at the subject site. However, extent of impacted soil at the site is widespread, which could be excavation cost prohibitive. In addition, the impacted soil in the northern source area is below the existing tank farm and near a busy loading dock area. Excavation in this area is not considered feasible due to these structures. The impacted soil in the southern source area extends off-site within a heavily wooded area. Excavation in this area would require tree removal, which the off-site property owner may not agree to. Based on these

concerns, ATC does not consider excavation to be the most effective corrective measure for the subject site at this time.

In-Situ Chemical Amendments

Similar to in-situ chemical injection for groundwater remediation, a variety of products can be added to the soil to remediate COCs in-situ. The products and remediation chemistry are similar to that discussed in Section 5.3.1. Products may be injected directly, typically using direct-push technology, but achieving adequate contact with impacted soils is often a challenge. Injection points must be tightly spaced, particularly for sites with deeper water tables. Based on these concerns and particularly in consideration of the widespread soil impacts and complex geology, chemical injection is not considered feasible for soil remediation.

Soil Vapor Extraction (SVE)

SVE systems remediate impacted soils in-situ by removing vapors from the vadose zone and enhancing aerobic bioremediation. Vapors are removed by applying a vacuum to wells or trenches screened within the area of impacted soil. Extracted vapors are treated, if necessary, then discharged to the atmosphere. VOCs are typically removed via volatilization. Heavier SVOCs are less amenable to volatilization, but can also be favorably impacted by enhanced aerobic bioremediation occurring due to increased oxygen levels associated with SVE. Note that the primary SVOCs reported above action levels at the subject site are naphthalene and 2-methylnaphthalene, which are among the most volatile of SVOCs (naphthalene is also reported in the VOC analysis) and therefore amenable to remediation via SVE. Heavier SVOCs above action levels are limited to one shallow sample (B-37, 0-2.5 feet) and could be addressed via alternative measures if SVE is unsuccessful in this area. Challenges associated with SVE include a need for permanent infrastructure (extraction wells, trenching, and central system location) and costs associated with on-going O&M. However, these issues not insurmountable and considered less of a concern than the challenges associated with other soil remediation options. Based on an evaluation of remedial options and issues with excavation as discussed above, ATC recommends SVE as the corrective measure to address impacted soil at the subject site. Section 6.2.2 contains specific details regarding the proposed SVE system for the site.

6.0 RECOMMENDED CORRECTIVE MEASURES

6.1 Groundwater Remediation

6.1.1 DPE Pilot Test

On January 20 and 21, 2016, ATC performed a DPE pilot test to determine if DPE would be an effective form of remediation for removal of LNAPL historically detected in monitoring well MW-4. Extraction was primarily performed on well MW-4, but also for a shorter time period on wells MW-5 and MW-10 to gather additional data about the site hydrogeology. The pilot test was performed using a vacuum truck in a manner similar to an AFVR event. Stinger intake pipes were set below the water table interface in the extraction wells. Recovered groundwater was stored in a truck-mounted storage container and disposed of by S-K following the pilot test. Vacuum readings and depth to water measurements were collected from surrounding monitoring wells before, during, and after the test. The locations of wells MW-4, MW-5, and MW-10 are shown on ***Figure 3***.

Well MW-4 is a 2-inch well screened from 11 to 26 feet bgs in PWR and bedrock. On January 21, 2016, extraction was performed from MW-4 for approximately 3 hours and 30 minutes with vacuum levels ranging from 15 to 23 inches of mercury (Hg). Minor vacuum influence was measured at 0.05 inches of Hg in well OW-5, which is located approximately 40 feet north of well MW-4. However, no influence was measured in the other points, including wells MW-9 and MW-10 which are nested with well MW-4 at different depths. The lack of vacuum influence in these points is likely due to the fact that well MW-4 is screened below the groundwater table. A minor decrease in the groundwater level was measured in adjacent nested wells MW-9 and MW-10 during the test, but no substantial change in water levels was measured in the remaining observation wells. Based on these data, the radius of influence for DPE is assumed to be less than 40 feet, but sufficient monitoring points were not available to refine the exact radius of influence.

Well MW-10 is nested with well MW-4 and consists of a 2-inch diameter well screened from 4 to 7 feet bgs in the unconsolidated zone. On January 21, 2016, DPE was performed from well MW-10 for approximately 45 minutes with vacuum levels ranging from 20 inches of Hg to 22 inches of Hg. Vacuum influence and a decrease in the groundwater table were measured in nested bedrock/PWR well MW-4. A decrease in the groundwater table was also measured in nested bedrock well MW-9. These data indicate that extraction from wells screened in the unconsolidated zone will also recover groundwater from the shallow bedrock zone in this area.

Well MW-5 is a 2-inch diameter well screened from 5 to 15 feet bgs in the unconsolidated/PWR zone. On January 20, 2016, extraction was performed monitoring well MW-5 for approximately 2 hours and 35 minutes with vacuum levels ranging from 14 to 24 inches of Hg. No vacuum influence was measured in the surrounding wells, the closest of which was located approximately 55 feet from well MW-5. Water level measurements indicated lowering of the groundwater table in the area of well OW-2, which is located 90 feet from MW-5, but no substantial change in OW-1 or MW-2, which are located 65 and 55 feet from MW-5, respectively. These data suggest an irregular radius of influence, which is attributed to the complex site geology. One of the purposes of extracting from well MW-5 was to evaluate

whether the shallow groundwater in this well was indicative of perched conditions. During the test, approximately 495 gallons of fluids were recovered from well MW-5, and 95% groundwater recharge was measured within one hour following completion of the test. Based on these data, ATC concludes that the groundwater in well MW-5 likely does not represent a perched discontinuous zone.

Measurements of air flow, temperature, relative humidity, and total VOCs were collected from the effluent stack on the vacuum truck during the event. Concentrations of VOCs measured using a PID ranged from approximately 50 to 350 parts per million (ppm). Stack emission calculations indicated approximately 0.76 pounds of hydrocarbon vapors were emitted through the stack. Field readings collected during the pilot test and mass removal calculations are summarized in ***Appendix C***.

Overall, ATC concludes that DPE extraction would be an effective method of groundwater remediation with a focus on removal of LNAPL from well MW-4. Based on the limited extent of LNAPL, completion of short-term AFVR events is recommended rather than installation of a traditional DPE system.

6.1.2 Proposed AFVR Events for LNAPL Groundwater Remediation

ATC proposes to remediate LNAPL detected at the site by performing AFVR events on monitoring well MW-4. During each event, vacuum piping will be placed in the well approximately 15 to 20 inches below the free product/water table interface. Throughout each event, the intake will be adjusted to maximize the vapor emissions. The media removed from the well will be transferred to a dedicated truck-mounted container and will be disposed of by S-K at the conclusion of each event. Each AFVR event will run for approximately eight hours.

Within 60 days following each AFVR event, monitoring well MW-4 will be gauged to determine whether LNAPL is present. If LNAPL is detected, the subsequent quarterly AFVR event will be completed. If no LNAPL is detected, the subsequent AFVR events will be cancelled. If LNAPL is detected during a later semiannual groundwater monitoring event, quarterly AFVR events will resume within 60 days.

6.1.3 Proposed Monitored Natural Attenuation for Dissolved Phase Groundwater Remediation

Monitored natural attenuation is suitable for the dissolved phase groundwater plume associated with this site, since groundwater concentrations are relatively low and the groundwater plume extent is limited. A Groundwater Sampling and Analysis Plan (GSAP) detailing the proposed natural attenuation monitoring schedule and scope is provided in Section 7.0.

6.2 Soil Remediation

6.2.1 Soil Vapor Extraction Pilot Test

On January 19, 2016, ATC performed a SVE pilot test on well SVE-1 to determine an effective radius of influence for SVE in the southern source area. SVE-1 is a vertical 4-inch diameter well with a screen interval from 5 to 21 feet bgs. On January 20, 2016, ATC performed a SVE pilot test on well OW-2 to determine an effective radius of influence for SVE in the northern source

area. OW-2 is a vertical 4-inch diameter well with screen interval from 5 to 25 feet bgs. During both pilot tests, vacuum was applied to the test wells by a GAST R7100R 10-horsepower regenerative vapor extraction blower. The locations of SVE-1 and OW-2 are shown on ***Figure 3***.

For the pilot test on SVE-1, the initial vacuum level during Stage 1 of the pilot test was recorded at 40 inches of water column, which did not result in a measureable flow rate (less than 1 standard cubic feet per minute (scfm)) from SVE-1. The vacuum was increased to approximately 60 inches of water column during Stage 2, which coincided with an approximate air flow rate of 20 scfm from SVE-1 within 30 minutes of the vacuum increase. The vacuum was increased to approximately 80 inches of water column during Stage 3, which coincided with an approximate air flow rate of 20 scfm from SVE-1 at the beginning of the stage and decreased to 6 scfm at the end of the stage. The vacuum was increased to approximately 100 inches of water column during Stage 4, which coincided with an approximate air flow rate of 6 scfm from SVE-1. The decrease in air flow rate from SVE-1 at the end of Stage 3 and throughout Stage 4 may be attributed to groundwater upwelling, which reduced the amount of exposed well screen open to air flow.

Four monitoring points were established during the pilot test on SVE-1. The monitoring points and the approximate distances from SVE-1 are summarized as follows:

- Observation Well OW-3 (25 feet)
- Observation Well OW-4 (29 feet)
- Observation Well OW-6 (51 feet)
- Observation Well OW-5 (85 feet)

The locations of the monitoring points are shown in ***Figure 3.*** Throughout each SVE test, vacuum levels were observed and recorded for each monitoring point. Measureable vacuum levels were observed at all of the monitoring points throughout the SVE-1 test. The highest vacuum levels were observed at OW-3 and OW-4, which are located within 30 feet of SVE-1.

For the pilot test on OW-2, the initial vacuum level during Stage 1 of the pilot test was recorded at 40 inches of water column, which did not result in a measureable flow rate (less than 1 scfm) from OW-2. The vacuum was increased to approximately 60 inches of water column during Stage 2, which coincided with an approximate air flow rate ranging from 5 to 6 scfm from OW-2. The vacuum was increased to approximately 80 inches of water column during Stage 3, which coincided with an approximate air flow rate ranging from 6 to 11 scfm from OW-2. The vacuum was increased to approximately 100 inches of water column during Stage 4, which coincided with an approximate air flow rate of 17 scfm from OW-2.

Three monitoring points were established during the pilot test on OW-2. The monitoring points and the approximate distances from OW-2 are summarized as follows:

- Observation Well OW-1 (35 feet)
- Observation Well OW-4 (67 feet)
- Monitoring Well MW-5 (75 feet)

The locations of the monitoring points are shown in ***Figure 3.*** Throughout each SVE test, vacuum levels were observed and recorded for each monitoring point. Measureable vacuum levels were observed at OW-1 and OW-4 during the OW-2 test. The highest vacuum levels were observed at OW-1, which is located approximately 35 feet from OW-2. Low vacuum levels were observed at OW-4, which may have been attributed to changes in atmospheric pressure during the test. No measureable vacuum was observed at MW-5, which is most likely because the well screen was submerged below the groundwater table during the test.

Overall, based on the results of the SVE pilot tests, ATC recommends a radius of influence of 25 feet for design purposes in both the northern and southern source areas. Although vacuum influence was observed at greater distances from the extraction well during the pilot tests, the most effective vacuum influence for removal of volatilized COCs was observed within approximately 25 to 35 feet of the extraction point. In addition, an overlap in vacuum influence will help ensure effective removal of the volatilized COCs. Field readings collected during the pilot test are summarized in ***Appendix D***.

At the start and conclusion of both SVE pilot tests, ATC collected air samples to determine the potential vapor concentrations that may be encountered while the SVE system is active at the site. Samples collected during the SVE-1 pilot test are labeled as SVE-1 (40" H20) and SVE-1 (100" H2O) in the laboratory results. Samples collected during the OW-2 pilot test are labeled as SVE-2 (40" H20) and SVE-2 (100" H2O) in the laboratory results. Summa canisters were connected to the effluent port on the regenerative vapor extraction blower using laboratory supplied Teflon tubing. The samples were submitted to H&P Mobile Geochemistry, Inc. for laboratory analysis of volatile organic compounds by EPA Method TO-15. The laboratory results indicated detectable acetone, benzene, 1,1-dichloroethane, cis-1,2-dichloroethene, ethylbenzene, toluene, and vinyl chloride. However, based on the concentrations, no air permitting or off-gas treatment is required by NCDEQ, Randolph County, or the City of Archdale for the proposed SVE system. SVE effluent analytical data are included in ***Table* 8**. The soil gas laboratory report is included in ***Appendix B***.

Note that horizontal SVE piping was historically installed below the existing tank farm in the northern source area prior to the tank farm installation in 1992. The piping was installed as a precautionary measure in the event SVE was selected as a future remedial option. The piping consists of three horizontal SVE trenches. The westernmost two horizontal trenches were constructed with slotted PVC installed at a depth of 7 feet. The easternmost horizontal trench was constructed with slotted PVC installed to a depth of 3 feet. Three manholes are present which provide access to the piping. ATC attempted to access the piping during the pilot test. However, the piping appeared to be potentially filled with soil. As discussed in Section 6.2.2, ATC will further attempt to access the piping during the proposed SVE system piping and trenching.

6.2.2 Proposed SVE System for Soil Remediation

<u>Southern Source Area Extraction Points</u>

The current plan for the proposed SVE system for soil remediation in the southern source area consists of six vertical SVE wells and one horizontal SVE trench. The vertical wells will include existing well SVE-1, the existing observation wells (OW-3, OW-4, OW-5, OW-6), and one

additional proposed SVE well located at the western edge of the impacted soil area. The proposed SVE wells to be constructed will consist of 4-inch schedule 40 PVC piping with 20-slot well screen from approximately 5 feet bgs to the lowest historical groundwater table (approximately 15-20 feet bgs). In the area of impacted soil off-site in the wooded area, the depth to groundwater is estimated to be at a depth as shallow as 5 feet bgs. Due to this depth and the potential for frequent system shutdowns due to water recovery, ATC's current plan is to install a horizontal SVE trench in this area. The SVE trench will be constructed of screened 2-inch schedule 40 PVC piping with 20-slot screen and installed horizontally approximately 1.5 feet bgs. However, during the engineering design phase, ATC will further evaluate whether a horizontal trench or vertical wells are more appropriate to address soil impacts in the off-site wooded area. The final details for vapor extraction in the off-site wooded area will be included in the design specifications to be submitted following approval of this CMS by NCDEQ. The proposed SVE well and trench layout is shown on ***Figure 13***.

Note that the corrective measures proposed in this CMS for the off-site area are contingent on approval by the off-site property owners. Following approval of this CMS by NCDEQ, S-K will contact the off-site property owners to discuss the proposed scope of work. If changes to the proposed CMS are determined to be warranted based on these discussions, S-K will contact the NCDEQ to discuss alternative corrective measures.

Northern Source Area Extraction Points

The proposed SVE well system for soil remediation in the northern source area consists of four vertical SVE wells and three horizontal SVE trenches. The vertical wells will include existing wells OW-1 and OW-2, and one additional proposed SVE well located within the impacted soil area south of the tank farm. The proposed SVE wells to be constructed will consist of 4-inch schedule 40 PVC piping with 20-slot well screen from approximately 5 feet bgs to the lowest historical groundwater table (approximately 15-20 feet bgs). The horizontal trenches will consist of the existing piping previously installed beneath the tank farm. ATC will attempt to expose this piping during the system piping and trenching and confirm whether the piping can feasibly be used. If the piping cannot be used, the proposed system of vertical wells will still adequately cover the majority of the impacted soil area, with the exception of the area near well MW-5. The depth to groundwater in well MW-5 has been measured at a depth as shallow as 2.28 feet, so a substantial impacted vadose zone requiring remediation is not present in the area of this well. If additional shallow soil remediation is required in this area, extraction may be performed for a short time period on this well during scheduled AFVR events to be performed as detailed in Section 6.1.2. The proposed SVE well and trench layout is shown on ***Figure 13***.

Proposed System Equipment

Based on the pilot test data, the anticipated vacuum to provide an effective vacuum influence without causing significant groundwater upwelling is approximately 60 inches of water column. The flow rate from each SVE well is anticipated to be approximately 10 to 20 scfm based on the pilot test data. The proposed vapor extraction unit for the SVE system will consist of a sealed regenerative blower similar in design to the Ametek Rotron EN858D72WL. The design capacity of the SVE blower will be sufficient to handle the anticipated total flow rate from the SVE wells and maintain 60 inches of water column while overcoming the minor energy losses between the blower

and the SVE wells. Product literature for the Ametek Rotron regenerative blower is included in ***Appendix E***. Note that the existing SVE system currently present at the SK site in Charlotte, NC is no longer in use and meets the design criteria for the proposed Archdale system. As such, S-K's current plan is to move this system from the Charlotte facility and reuse it at the Charlotte facility.

Schedule 40 PVC piping will be installed to transfer air from the SVE wells to the SVE blower. Due to the large number of proposed extraction points, extraction will be focused on the extraction points indicating the highest PID readings. The extraction points will be alternated over time to maximize mass recovery while maintaining a flow that the system can handle. Following approval of this CMS by NCDEQ, additional details regarding the SVE system layout and equipment specifications will be provided to NCDEQ.

Criteria for System Shutdown

Air samples will be collected from the SVE system influent on a quarterly basis for analysis of VOCs by EPA Method TO-15. When influent concentrations reduce and stabilize showing reduced system effectiveness, soil sampling will be performed to evaluate whether remediation is complete. Post-remediation soil sampling will include collection of soil samples at selected locations where pre-remediation soil samples indicated the highest levels of impact. Prior to sampling, S-K will submit a proposed soil sampling plan to NCDEQ for review. If the results of the sampling indicate remedial goals have been achieved, or that residual impacts can be addressed using a risk-based approach, S-K will request NCDEQ approval for shutdown of the SVE system.

6.3 Estimated Costs

A cost estimate for implementation of this CMS is included in ***Appendix F***.

6.4 Implementation Schedule

A proposed implementation schedule is summarized in the attached ***Table 9***. Note that this schedule could vary depending on timeframes for regulatory approval, permitting, and off-site access negotiations. Also, note that the corrective measures proposed in this CMS for the off-site area are all contingent on approval by the off-site property owner. The following key compliance dates are proposed:

Compliance Dates Related to LNAPL Groundwater Remediation

- Within 60 days of approval of this CMS by NCDEQ, the initial quarterly AFVR event will be performed.

Compliance Dates Related to Dissolved Phase Groundwater Remediation

- Within 90 days of approval of this CMS by NCDEQ, the initial semiannual monitoring event will be performed. Note that ATC is postponing the first sampling event to 90 days so that wells which were used for the AFVR event may have a 30-day time period to recover and stabilize.

Compliance Dates Related to SVE for Soil Remediation

- Within 60 days of approval of this CMS by NCDEQ, final recommendations for the SVE system layout and design specifications will be prepared and the off-site property owners will be consulted regarding the proposed scope of work. A submittal to the NCDEQ will be made at the end of the 60 day timeframe confirming the proposed scope of work for the off-site area and detailing the SVE design specifications. Within 180 days of approval of the final SVE specifications by the NCDEQ, the SVE system will be installed and operational. (Note that this timeframe may be less, but a generous timeframe is assumed based on ATC's prior experience with local permitting requirements.)

6.5 Reporting

Reports documenting groundwater sampling events will be submitted on a semiannual basis within 60 days of each sampling event. ATC proposes to incorporate reporting related to the proposed corrective measures into the scheduled semiannual reports. Each semiannual report will contain a discussion of activities related to the quarterly AFVR events and the SVE system operation and maintenance during the prior six month time period.

7.0 GROUNDWATER SAMPLING AND ANALYSIS PLAN (GSAP)

7.1 Sampling Schedule

Ten monitoring wells currently exist at the site that were installed during recent or prior assessment activities (MW-1 through MW-10). Well construction details are summarized in ***Table 5*** and approximate well locations are shown on ***Figure 3***. ATC will attempt to sample monitoring wells MW-4 through MW-10 on a semiannual basis and monitoring wells MW-1, MW-2, and MW-3 on an annual basis. ATC will gauge water levels in each of the ten monitoring wells on a semiannual basis. The first sampling event will be performed within 90 days of NCDEQ approval of this CMS and will constitute the first semiannual sampling event.

Note that S-K may voluntarily collect groundwater samples from the proposed SVE wells (current SVE-1, current OW-1 through OW-6, and/or additional wells to be installed during implementation of this CMS) periodically to monitor the progress of remediation. However, this groundwater sampling will require temporary shutdown of the SVE system and disconnection of SVE piping. As such, regular monitoring of these wells is not planned. The following sections provide details regarding sampling and gauging protocol. Sampling and gauging events will continue until either NCDEQ approves termination of the groundwater monitoring or reported groundwater concentrations are below 2L Standards for a period of three consecutive years.

7.2 Pre-Mobilization Activities

7.2.1 Sampling Program Coordination

Prior to mobilization to the field for the sampling program, sampling personnel will review the GSAP to ensure collection of necessary field data and conformance with the procedures described below. Necessary equipment will be procured and/or prepared for use prior to commencement of field activities.

The sampling program will be coordinated with the contract laboratory to ensure that properly prepared sample kits are available. The sample kits will include necessary sample containers with closures and appropriate preservatives, coolers, waterproof labels, and chain-of-custody forms.

Records of site visits and sampling events will be maintained in weatherproof, bound, dedicated logbooks. Information to be recorded during the sampling event includes the following:

- Identification of sampling personnel;
- Identification of wells measured/sampled;
- Dates and times of measurement/sample collection;
- Results of static water level measurements and well soundings;
- Deficiencies in the physical condition of wells noted during well observations;
- Purging/sampling methods and volumes;
- Results of field water quality measurements and visual observation of samples; and
- Analyses to be performed, container types, and preservatives.

7.2.2 Health and Safety Plan Review

Field personnel will review the Health and Safety Plan prior to mobilization. Based on previous experience with groundwater sampling at the Archdale S-K facility, modified Level D protection, consisting of long pants, reflective high-visibility safety vests, safety glasses, and steel-toed shoes, is adequate to ensure worker protection. Latex or other chemical resistant gloves will be worn during well purging and sampling. Field personnel will also review health and safety procedures, job safety analyses, and site hazards each morning on-site to be prepared in the event of a medical emergency.

7.3 Sampling Equipment and Procedures

7.3.1 Static Water Level Survey

During each sampling event, a static water level survey will be conducted prior to well purging and sampling. The top of each well has been surveyed to a standard elevation. Static water levels will be measured from the top of casing using an electronic water level indicator or other suitable device in designated wells. Data will be recorded in logbooks. If certain monitoring wells are found to be dry or contain insufficient water for sampling, those wells were not be sampled during the scheduled event.

To minimize the potential for cross-contamination, wells that have historically shown no detectable or minimal concentrations of constituents of concern will be measured before wells with elevated constituent concentrations. The downhole measuring device will be thoroughly rinsed with laboratory-grade isopropyl alcohol then deionized water between well locations.

7.3.2 Well Integrity Observation

Prior to purging, the wells will be observed to confirm well integrity and identify needed repairs. Well observations will document observed deficiencies in the condition of the well casing, cap/protective cover, and surface pad. Deficiencies will be recorded in the logbooks and brought to the attention of appropriate project manager and/or S-K personnel upon completion of the sampling event.

7.3.3 Well Purging and Sampling

<u>Purging Equipment and Method</u>

Wells to be sampled will be purged prior to sample collection. Purging of each well will be accomplished using low flow techniques while monitoring water quality indicator parameters for stabilization, as described below. To minimize the potential for cross-contamination, wells that have historically shown no detectable or minimal concentrations of constituents of concern will be purged and sampled before wells with elevated constituent concentrations. The required purging equipment will include the following:

- Electronic water-level indicator;
- Sampling pump – adjustable rate peristaltic pump;

- Tubing – Primary tubing will be polyethylene, a short section of silicone tubing will also be used for the section around the rotohead of the peristaltic pump;
- Flow measurement supplies – graduated cylinder and stop watch;
- Multi-parameter water quality meter with flow-through-cell – YSI or similar, capable of monitoring pH, dissolved oxygen (DO), oxidation/reduction potential (ORP), temperature, and specific conductance;
- Turbidity meter;
- Decontamination supplies – deionized water, laboratory-grade isopropyl alcohol, and non-phosphate soap;
- Field logbook;
- Polyethylene sheeting – placed over the well head; and
- DOT approved container to contain the purged water and proper label.

Purging and Sampling Procedure

Disposable polyethylene tubing will be cut to a length necessary for an intake at the approximate middle of the screened interval for each well (see ***Table 5***). The water level will be measured to nearest 0.01 foot and recorded in the logbook. The water level indicator will be left in the monitoring well during purging to monitor the drawdown. The discharge line from the pump will be connected to a flow-through cell. The discharge line from the flow-through cell will be directed to a container to store the purge water during the purging and sampling of the monitoring well. A disposable T-valve will be installed in-line between the pump discharge and the flow-through cell to allow collection of samples for turbidity measurement.

Well purging will begin at a low flow rate (0.2 to 0.5 liter per minute). The rate will be slowly increased while the water level is monitored. An adequate flow rate that maintains a drawdown of less than 0.33 foot will be determined. If drawdown is greater than 0.33 foot, the flow rate will be maintained at a maximum level of 0.2 liter per minute. The discharge rate of the pump will be measured with a graduated cylinder and a stop watch. The water level and flow rate will be recorded in the field logbook.

During purging, the depth to water and water-quality indicator parameters will be monitored and recorded every three to five minutes. The water-quality indicator field parameters will include turbidity, DO, specific conductivity, ORP, temperature, and pH. Purging will continue until selected parameters have stabilized within the criteria detailed below for three successive readings. If stabilization of these parameters does not occur within one hour of purging, sampling will proceed with notes made in the field logbook regarding the lack of stabilization.

Parameter	**Stabilization Criteria**
pH	± 0.1 pH units
Specific Conductivity	± 5% µS/cm
Turbidity	± 10% NTUs (when turbidity is greater than 10 NTUs)

Once purging is complete, sampling will proceed at the same pumping rate or a slightly reduced rate (0.2 to 0.5 liter per minute) in order to minimize disturbance of the water column. Samples will be collected directly from the discharge port of the pump tubing prior to passing

through the flow-through cell or T-valve for the turbidity meter. Samples will be collected in laboratory supplied containers as detailed in Section 7.3.3.6. Once the required samples have been collected, the tubing will be removed from the well and disposed of properly.

Management of Purge Water

Purge water will be collected in a DOT approved container. The water will be managed and properly disposed of by S-K.

Decontamination Procedures

The electronic water level indicator probe will be thoroughly rinsed with laboratory-grade isopropyl alcohol then deionized water between well locations. Other purging and sampling equipment is either disposable (tubing) or sampled water does not come into contact with the equipment (flow-through cell and turbidity meter).

Groundwater Sample Handling

Groundwater samples will be collected and handled in such a way as to minimize the potential for cross-contamination, loss of volatile constituents, or other interferences. Sampling personnel will wear clean latex, nitrile, or other suitable chemical resistant, non-reactive gloves when handling sampling equipment and containers, and will minimize contact with the sampled groundwater. Care will be taken to prevent contact of the sampling equipment with the ground or other potential sources of sample contamination. Gloves will be changed between tasks and between sampling locations. The color, turbidity, and odor of each sample along with the field analysis parameters will be noted by the field technician and recorded in the logbook. Collected samples will be retained in coolers pending transport to the laboratory with adequate ice to maintain samples at a temperature of approximately 4 degrees Celsius until received by the laboratory.

Sample Containers, Preservatives, and Labels

Samples will be collected in clean, method-specified containers, with appropriate preservatives, supplied by the laboratory. The appropriate sample containers and preservatives for each analysis are specified on ***Table 10***. Prior to use, sample containers will be stored, with lids secured, in a clean cooler or box.

Once a sample is collected, the sample container will be secured with a tight-fitting lid and a waterproof adhesive label will be affixed. The label will include sample identification, time and date of collection, sampler's initials, and other pertinent information, as appropriate. The sample containers will be retained in a cooler at or below 4 degrees Celsius as described above pending transport to the laboratory.

Sample Custody Control, and Shipment and Receipt of Samples

After sample collection, chain-of-custody forms will be filled out in indelible ink, in legible writing, listing sample containers and will accompany the samples throughout shipment and

handling. Samples will be packed on sufficient ice to achieve a temperature of 4 degrees Celsius and sealed prior to shipment. To the extent practical, samples will be submitted to the laboratory within 24 hours of sample collection. If samples are delivered to the laboratory by a third party courier, a custody seal will be affixed to the cooler such that the cooler cannot be opened without breaking the seal.

Sampling personnel will be responsible for the care of collected samples until custody has been transferred to the laboratory, courier, or shipping department. Sample custodians will assure that the sample containers are in the custodians' physical possession, in view at all times, or stored in a secure area to prevent tampering.

Upon delivery of samples to the laboratory or courier, the sampler will retain a copy of the chain-of-custody form, signed by the sampler and/or laboratory personnel indicating the date and time the samples were relinquished and received. A copy of the chain-of-custody form showing all signatures from the sampler to the laboratory will be incorporated in the analytical report issued by the contract laboratory.

7.3.4 Collection of Quality Control Field Samples

For the purpose of field sample quality control, a laboratory-prepared trip blank will accompany the sample containers from the lab. One duplicate sample will be also collected during each sampling event. The monitoring well selected for duplicate sampling will rotate during each sampling event. The trip blank will be analyzed by EPA Method 8260, and the duplicate sample will be analyzed by EPA Method 8260 and EPA Method 8270, as further specified in Section 7.4.

7.4 Analytical Laboratory Procedures

7.4.1 Laboratory Methods and Sample Containers

Upon receipt, the laboratory will measure the internal temperature of each sample cooler. The samples will then be logged in and maintained at the appropriate temperature pending extraction and/or analysis within the method-specified holding times. In the event of sample container breakage or other problems with the sample shipment, the laboratory will contact ATC immediately.

Samples from each monitoring well and the duplicate samples will be analyzed for VOCs by EPA Method 8260B and semivolatile organic compounds (SVOCs) by EPA Method 8270D. The scope of the SVOC analysis will be limited to polynuclear aromatic hydrocarbons (PAHs) since the PAH analyte list covers the primary SVOC constituents of concern detected above 2L Standards during prior sampling events. Trip blanks will be analyzed for VOCs by EPA Method 8260. ***Table 10*** lists the analytical methods, containers, preservatives, and holding times for the groundwater laboratory analyses. ***Appendix G*** lists the compounds, reporting limits, and method detection limits for each analysis. Laboratory analyses will be performed in accordance with the QA/QC protocol specified in USEPA publications "Test Methods for Evaluating Solid Waste", SW-846, Rev. 6, February 2007; "Methods for Chemical Analysis of Water and Wastes", EPA/600/4-79-20, 1983; or other appropriate methods.

7.4.2 Data Reduction, Validation, and Management

Data Reduction

Calculations and data reduction will be completed by laboratory personnel in accordance with procedures specified by USEPA in "Test Methods for Evaluating Solid Waste", SW-846, Rev. 6, February 2007; "Methods for Chemical Analysis of Water and Wastes", EPA/600/4-79-020, 1983; or other appropriate methods. Procedures, units, and equations used in data reduction will be consistent with the analysis method.

Data Validation

The contracted laboratory will verify that the data are properly documented and filed according to chain-of-custody records, and that calculations made from raw data are correct. Results from calibration standards will be examined to ensure they are within expected ranges. Blank, duplicate, spike, standard, and QC data for each batch will be examined to ensure conformance with specified QA/QC goals.

Data Management

The sampling contractor will be responsible for tabulation, management, and statistical analysis of analytical data received from the laboratory.

7.4.3 Laboratory Quality Control Analyses

To monitor system performance, control samples, including blanks, duplicates, spike duplicates, analytical standards, and reference materials, will be incorporated in the operation of the laboratory facility. The laboratory selected to complete the specified analyses must submit laboratory QC data consistent with the provisions specified in this GSAP. Minimum QC sampling and testing requirements follow.

Matrix Spikes

Matrix spike samples will be run at a frequency of one per sample batch, one per every 20 samples analyzed, or consistent with EPA guidance. The results from these analyses will be compared to the control limits established for precision and bias to assess whether or not the analysis is in statistical control.

Method Blanks

To monitor potential contamination in the laboratory, method blanks will be run at a frequency of one every 20 samples, or a minimum of one per sample batch, or as specified in EPA guidance. For organic analyses, blank results will be acceptable if the concentration of the target analytes in the blank are below the practical quantitation limit for each analyte. In accordance with EPA guidance (USEPA, 1988), exceptions will be made for common laboratory contaminants (methylene chloride, acetone, 2-butanone, toluene, and phthalate esters may be

present at concentrations up to five times the method-specified practical quantitation limit) and the results for the blank will still be acceptable.

Matrix Spike Duplicates

Analysis of a matrix spike duplicate will be used to determine matrix-specific precision. A matrix duplicate or matrix spike duplicate will be run at a frequency of one in 20, or a minimum of one per sample batch, or as specified in EPA guidance.

7.4.4 Preventive Maintenance

Routine maintenance of instrumentation will be performed per manufacturer's recommendations according to standard operating procedures for each piece of equipment. Qualified instrument technicians will be consulted as required for repair, maintenance, or advice. The laboratory Quality Assurance Project Plan (QAPP) will include maintenance procedures for laboratory instrumentation.

7.4.5 Data Assessment Procedures and Corrective Action

Procedures for evaluating the precision, accuracy, representativeness, and comparability of laboratory test results are detailed in the EPA publications "Test Methods for Evaluating Solid Waste" and "Methods of Chemical Analysis of Water and Wastes". As an indicator of statistical control, precision and bias will be estimated by tracking spike recoveries and standard deviations of replicates. Corrective action will be taken when QC data are outside acceptable precision and accuracy values, blank concentrations exceed acceptable limits, or unanticipated changes in method detection limits are encountered. Corrective action may include recalibration of instruments with freshly prepared standards, replacement of solvents or reagents giving high blank values, additional training, or other appropriate measures.

7.5 Reporting

Reports documenting the groundwater gauging and sampling events will be submitted on a semiannual basis. Reports will be submitted within 60 days following each sampling event and will document sampling and gauging activities performed during the prior six-month time period. Reports will consist of a brief cover letter with attached tables and figures describing sampling and analytical protocol, groundwater elevation data and groundwater flow direction, laboratory results in comparison to 2L Standards, and a discussion of any notable trends in contaminant concentrations or plume migration.

TABLES

TABLE 1 (page 1 of 1)

SUMMARY OF PRE-1995 SOIL ANALYTICAL DATA FOR NORTHERN SOURCE AREA
SAFETY-KLEEN SERVICE CENTER
ARCHDALE, NORTH CAROLINA

PARAMETER	BORING	B1A	B1-B	B2-A	B2-B	B3-A	B3-B	B4-A	B4-B	B5	B7	B7	B8	B9	B10	Protection of Groundwater PSRG	Residential PSRG	Industrial PSRG
	DEPTH (feet)	0.5-1.0	2.0-2.5	0.5-1.0	2.0-2.5	0.5-1.0	2.0-2.5	0.5-1.0	2.0-2.5	6-8	2-4	6-8	6-8	1-1.5	1-1.5			
	DATE	3/2/92	3/2/92	3/2/92	3/2/92	3/2/92	3/2/92	3/2/92	3/2/92	3/3/92	3/3/92	3/3/92	3/3/92	3/3/92	3/3/92			
TPH in mg/kg																		
Mineral Spirits (mg/kg)		1100W	620W	290W	28W	400W	81W	90W	770W	5.7	4,800	<5.7	<6.5W	1,400	1,000	NE	NE	NE
#2 Fuel Oil (mg/kg)		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NE	NE	NE
SEMIVOLATILES in ug/kg																		
Naphthalene		NA	NA	NA	NA	NA	NA	NA	NA	NA	**15,000**	NA	NA	NA	<370	210	3,800	17,000
bis (2-ethylhexyl) phthalate		NA	NA	NA	NA	NA	NA	NA	NA	NA	**9,600Q**	NA	NA	NA	500	7,200	39,000	160,000
2-Methylnaphthalene		NA	NA	NA	NA	NA	NA	NA	NA	NA	**6,000Q**	NA	NA	NA	<370	1,600	48,000	600,000
VOLATILES in ug/kg																		
Acetone		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	24,000	12,000,000	100,000,000
1,2-Dichlorobenzene		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	240	360,000	380,000
1,4-Dichlorobenzene		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	70	2,600	11,000
Ethylbenzene		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<11	<7	NA	NA	8,100	5,800	25,000
Methylene Chloride		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2QB	<7	NA	NA	23	57,000	640,000
Tetrachloroethene		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<11	<7	NA	NA	5	16,000	78,000
1,1,1-Trichloroethane		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<11	<7	NA	NA	1,200	640,000	640,000
Vinyl Acetate		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	370	182,000	760,000
Xylene (Total)		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<11	<7	NA	NA	6,000	130,000	258,000

Notes:
1. "<" = Not detected above laboratory reporting limit.
2. PSRG = Preliminary Soil Remediation Goals established by NC Inactive Hazardous Sites Branch dated September 2015.
3. NE = No PSRG established.
4. Bold = Indicates concentrations above the lowest PSRG.
5. NA = Not analyzed.
6. Table shows constituents detected in soil during the 1992-1995 investigations.
7. Q = Qualitative evidence of analyte present. Concentration is less than the reporting limit.
8. B = Analyte present in the method blank.
9. W = Sample received with headspace.

TABLE 2 (page 1 of 3)

SUMMARY OF PRE-1995 SOIL ANALYTICAL DATA FOR SOUTHERN SOURCE AREA
SAFETY-KLEEN SERVICE CENTER
ARCHDALE, NORTH CAROLINA

PARAMETER	BORING	#1	#2	B-1	B-1	B-2*	B-2	B-3	B-3	B-4*	B-4	B-5	B-5*	B-6	B-6	B-7	B-7	B-8	B-8*	B-9	B-9	B-10	Protection of Groundwater PSRG	Residential PSRG	Industrial PSRG
	DEPTH (feet)	0.3-0.8	0.3-0.8	4-6	10-12	2-4	6-8	6-8	8-10	10-12	12-14	2-4	8-10	4-6	8-10	4-6	8-10	0-2	6-8	6-8	8-10	8-10			
	DATE	5/19/93	5/19/93	10/27/93	10/27/93	10/27/93	10/27/93	10/27/93	10/27/93	10/27/93	10/27/93	10/28/93	10/28/93	10/28/93	10/28/93	10/28/93	10/28/93	10/29/93	10/29/93	10/29/93	10/29/93	10/29/93			
TPH in mg/kg																									
Mineral Spirits (mg/kg)		2.5	350	4300[b]	<10	320[b]	<10	<10[b]	<10[b]	120[b]	74[b]	<10	4300[b]	<10	<10	<10	<10	<10[b]	47[b]	<10[b]	NA	<10[b]	NE	NE	NE
#2 Fuel Oil (mg/kg)		4.4	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NE	NE	NE
SEMIVOLATILES in ug/kg																									
Naphthalene		<330	<330	NA	<330	NA	<330	NA	<330	NA	**350**	<330	NA	<330	NA	<330	NA	<330	NA	<330	NA	<330	210	3,800	17,000
Benzyl Alcohol		<660	<660	NA	<670	NA	<670	NA	<670	NA	<670	<670	NA	<670	NA	<670	NA	<670	NA	<670	NA	<670	3,100	1,300,000	16,000,000
bis (2-ethylhexyl) phthalate		<330	<330	NA	<330	NA	<330	NA	<330	NA	<330	<330	NA	<330	NA	<330	NA	<330	NA	<330	NA	<330	7,200	39,000	160,000
2-Methylnaphthalene		<330	<330	NA	<330	NA	<330	NA	<330	NA	<330	<330	NA	<330	NA	<330	NA	<330	NA	<330	NA	<330	1,600	48,000	600,000
VOLATILES in ug/kg																									
Acetone		<10	<10	NA	<20	NA	<20	NA	<20	NA	<20	<20	NA	<20	NA	<20	NA	<20	NA	<20	NA	<20	24,000	12,000,000	100,000,000
1,2-Dichlorobenzene		NA	NA	NA	<10	NA	<10	NA	20	NA	11	<10	NA	<10	NA	<10	NA	<10	NA	<10	NA	<10	240	360,000	380,000
1,4-Dichlorobenzene		NA	NA	NA	<10	NA	<10	NA	10	NA	11	<10	NA	<10	NA	<10	NA	<10	NA	<10	NA	<10	70	2,600	11,000
Methylene Chloride		<5	<5	NA	<20	<20	<20	NA	<20	NA	<20	<20	NA	<20	NA	<10	NA	<10	NA	<10	NA	<10	23	57,000	640,000
Ethylbenzene		<5	<5	NA	<5	NA	<5	NA	<5	NA	12	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	8,100	5,800	25,000
2-Butanone		<10	<10	NA	<20	<20	<20	NA	<20	NA	<20	<20	NA	<20	NA	<20	NA	<20	NA	<20	NA	<20	16,000	5,400,000	38,000,000
Tetrachloroethene		<5	<5	NA	<5	<5	<5	NA	<5	NA	<5	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	5	16,000	78,000
Xylene (Total)		<5	<5	NA	<5	NA	<5	NA	7	NA	80	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	6,000	130,000	258,000

Notes:
1. "<" = Not detected above laboratory reporting limit.
2. PSRG = Preliminary Soil Remediation Goals established by NC Inactive Hazardous Sites Branch dated September 2015.
3. NE = No PSRG established.
4. Bold = Indicates concentrations above the lowest PSRG.
5. NA = Not analyzed.
6. Table shows constituents detected in soil during the 1992-1995 investigations.
7. b = Gas chromatograph (GC) data indicates the presence of non-target hydrocarbons.
8. bc = GC indicates the presence of non-target compounds, qualitative identification is uncertain because the material present does not match laboratory standards.
9. * = Replacement sample collected in December 2012.

TABLE 2 (page 2 of 3)

SUMMARY OF PRE-1995 SOIL ANALYTICAL DATA FOR SOUTHERN SOURCE AREA
SAFETY-KLEEN SERVICE CENTER
ARCHDALE, NORTH CAROLINA

PARAMETER	BORING	B-11	B-12	B-13	B-13	B-14	B-14*	B-15	B-15	B-16	B-16*	B-17	B-17	B-18	B-18*	B-19	B-20	B-21	B-22**	B-22	B-23**	B-23	Protection of Groundwater PSRG	Residential PSRG	Industrial PSRG
	DEPTH (feet)	6-8	8-10	0-2	8-10	0-2	12-14	0-2	6-8	0-2	6-8	2-4	6-8	2-4	6-8	8-10	6-8	6-8	0-2	8-10	2-4	8-10			
	DATE	11/1/93	11/1/93	11/1/93	11/1/93	11/1/93	11/1/93	11/1/93	11/1/93	11/2/93	11/2/93	11/2/93	11/2/93	11/2/93	11/2/93	11/2/93	11/3/93	11/3/93	6/21/94	6/21/94	6/21/94	6/21/94			
TPH in mg/kg																									
TPH Mineral Spirits (mg/kg)		<10	<10	<10[b]	<10	<10[b]	240[b]	<10[b]	<10[b]	<10[b]	1400[b]	<10	<10	<10	340[b]	<10	<10	41[b]	NA	NA	NA	NA	NE	NE	NE
#2 Fuel Oil (mg/kg)		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NE	NE	NE
SEMIVOLATILES in ug/kg																									
Naphthalene		<330	<330	<330	NA	<330	NA	<330	NA	<330	NA	<330	NA	<330	NA	<330	<330	<330	<330	<330	<330	<330	210	3,800	17,000
Benzyl Alcohol		<670	<670	<670	NA	<670	NA	<670	NA	<670	NA	<670	NA	<670	NA	<670	<670	<670	<660	<660	<660	<660	3,100	1,300,000	16,000,000
bis (2-ethylhexyl) phthalate		<330	<330	<330	NA	<330	NA	<330	NA	<330	NA	<330	NA	<330	NA	<330	350	<330	<330	<330	<330	<330	7,200	39,000	160,000
2-Methylnaphthalene		<330	<330	<330	NA	<330	NA	<330	NA	<330	NA	<330	NA	<330	NA	<330	<330	<330	<330	<330	<330	<330	1,600	48,000	600,000
VOLATILES in ug/kg																									
Acetone		<20	<20	<20	NA	<20	NA	<20	NA	<20	NA	40	NA	<20	NA	<20	<20	47	1500B	62	1600B	42	24,000	12,000,000	100,000,000
1,2-Dichlorobenzene		<10	<10	<10	NA	<10	NA	<10	NA	<10	NA	<10	NA	<10	NA	<10	<10	<10	<330[1]	<330[1]	<330[1]	<330[1]	240	360,000	380,000
1,4-Dichlorobenzene		<10	<10	<10	NA	<10	NA	<10	NA	<10	NA	<10	NA	<10	NA	<10	<10	<10	<330[1]	<330[1]	<330[1]	<330[1]	70	2,600	11,000
Methylene Chloride		<10	<10	<10	NA	<10	NA	<10	NA	<10	NA	<10	NA	<10	NA	<10	<10	<10	**230JB**	<5	**240JB**	<5	23	57,000	640,000
Ethylbenzene		<5	<5	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	<5	110	<620	<5	<620	<5	8,100	5,800	25,000
2-Butanone		<20	<20	<20	NA	<20	NA	<20	NA	<20	NA	<20	NA	<20	NA	<20	<20	<20	<1,200	16	<1,200	8J	16,000	5,400,000	38,000,000
Tetrachloroethene		<5	<5	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	<5	<5	<620	3J	<620	2J	5	16,000	78,000
Xylene (Total)		<5	<5	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	<5	160	<620	<5	<620	<5	6,000	130,000	258,000

Notes:
1. "<" = Not detected above laboratory reporting limit.
2. PSRG = Preliminary Soil Remediation Goals established by NC Inactive Hazardous Sites Branch dated September 2015.
3. NE = No PSRG established.
4. Bold = Indicates concentrations above the lowest PSRG.
5. NA = Not analyzed.
6. Table shows constituents detected in soil during the 1992-1995 investigations.
7. b = Gas chromatograph (GC) data indicates the presence of non-target hydrocarbons.
8. bc = GC indicates the presence of non-target compounds, qualitative identification is uncertain because the material present does not match laboratory standards.
9. * = Replacement sample collected in December 2012.
10. ** = Sample location removed during 1996 soil excavation.

TABLE 2 (page 3 of 3)

SUMMARY OF PRE-1995 SOIL ANALYTICAL DATA FOR SOUTHERN SOURCE AREA
SAFETY-KLEEN SERVICE CENTER
ARCHDALE, NORTH CAROLINA

PARAMETER	BORING	B-24**	B-24	B-25**	B-25	B-26**	B-26	B-22A	B-22A	B-22A	B-23A	B-23A	B-23A	B-24A	B-24A	B-24A	B-25A	B-25A	B-25A	B-26A	B-26A	B-26A	Protection of Groundwater PSRG	Residential PSRG	Industrial PSRG
	DEPTH (feet)	2-4	10-12	2-4	12-14	0-2	8-10	2-4	6-8	10-11.5	2-4	6-8	10-12	2-4	6-8	10-12	2-4	6-8	10-12	0-2	2-4	6-8			
	DATE	6/21/94	6/21/94	6/22/94	6/22/94	6/22/94	6/22/94	1/3/95	1/3/95	1/3/95	1/3/95	1/3/95	1/3/95	1/3/95	1/3/95	1/3/95	1/3/95	1/3/95	1/3/95	1/3/95	1/3/95	1/3/95			
TPH in mg/kg																									
TPH Mineral Spirits (mg/kg)		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NE	NE	NE
#2 Fuel Oil (mg/kg)		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NE	NE	NE
SEMIVOLATILES in ug/kg																									
Naphthalene		**1,400**	<330	<330	<330	<330	<330	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	210	3,800	17,000
Benzyl Alcohol		<660	<660	<660	<660	<660	<660	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,100	1,300,000	16,000,000
bis (2-ethylhexyl) phthalate		<330	<330	<330	<330	<330	<330	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7,200	39,000	160,000
2-Methylnaphthalene		<330	<330	<330	<330	<330	<330	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,600	48,000	600,000
VOLATILES in ug/kg																									
Acetone		1500B	35	300	580JB	33	1500B	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	24,000	12,000,000	100,000,000
1,2-Dichlorobenzene		<330[1]	<330[1]	<330[1]	<330[1]	<330[1]	<330[1]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	240	360,000	380,000
1,4-Dichlorobenzene		<330[1]	<330[1]	<330[1]	<330[1]	<330[1]	<330[1]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	70	2,600	11,000
Methylene Chloride		**260JB**	<5	<5	<620	<5	**210JB**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	23	57,000	640,000
Ethylbenzene		300J	<5	8	<620	1J	<620	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8,100	5,800	25,000
2-Butanone		<1,200	<10	65	<1,200	<10	<1,200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	16,000	5,400,000	38,000,000
Tetrachloroethene		<620	2J	<5	<620	4J	<620	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5	16,000	78,000
Xylene (Total)		2600	<5	88	240J	<5	<620	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6,000	130,000	258,000

Notes:
1. "<" = Not detected above laboratory reporting limit.
2. PSRG = Preliminary Soil Remediation Goals established by NC Inactive Hazardous Sites Branch dated September 2015.
3. NE = No PSRG established.
4. Bold = Indicates concentrations above the lowest PSRG.
5. NA = Not analyzed.
6. Table shows constituents detected in soil during the 1992-1995 investigations.
7. J = Estimated value less than reporting limit but greater than method detection limit.
8. B = Analyte present in the method blank.
9. ** = Sample location removed during 1996 soil excavation.

TABLE 3 (page 1 of 1)

SUMMARY OF POST-2012 SOIL ANALYTICAL DATA FOR NORTHERN SOURCE AREA
SAFETY-KLEEN SERVICE CENTER
ARCHDALE, NORTH CAROLINA

PARAMETER	SOURCE	NORTHERN SOURCE AREA																								Protection of Groundwater PSRG	Residential PSRG	Industrial PSRG
	BORING	B-27	B-28	B-28R	B-29	B-29 (dup)	B-29R	B-30	B-30R	B-30R	B-31	B-31	B-31R	B-32	B-32	B-43	B-43	B-43	B-44	B-45	B-45	B-45	B-46	B-47				
	DEPTH (feet)	7.5-10	2.5-5	12.5-15	2.5-5	2.5-5	7.5-10	2.5-5	10-12.5	12.5-15	0-2.5	2.5-5	7.5-10	0-2.5	5-7.5	0-2.5	5-7.5	7.5-10	0-2.5	2.5-5	7.5-10	12.5-14	5-7.5	0-3				
	DATE	5/9/12	5/11/12	12/4/12	5/11/12	5/11/12	12/4/12	5/10/12	12/3/12	12/3/12	5/11/12	5/11/12	12/4/12	5/11/12	5/11/12	12/4/12	12/4/12	12/4/12	12/4/12	12/4/12	12/4/12	12/4/12	12/4/12	12/4/12				
SEMIVOLATILES in ug/kg																												
Naphthalene		<12	19	NA	**610**	**470**	<11	**4,400**	<11	<11	<11	36 J,R-01	NA	<11	<11	**3,100**	6J	<11	<12	<11	<12	<11	62	<11		210	3,800	17,000
Benzo(k)fluoranthene		<390	<370	NA	<370	<380	<360	<370	<370	<370	<380	<400	NA	<370	<370	<390	<360	<350	<390	<380	<400	<380	<380	<360		5,900	1,600	29,000
Benzo(a)anthracene		<12	<11	NA	<11	<11	<11	<56	<11	<11	<11	<60 R-01	NA	<11	<11	40J	<11	<11	<12	<11	<12	<11	<11	<11		180	160	2,900
Benzo(a)pyrene		<12	<11	NA	<11	<11	<11	<56	<11	<11	<11	<60 R-01	NA	<11	<11	<59	<11	<11	<12	<11 QI-03	<12	<11	<11	<11		59	16	290
Benzo(b)fluoranthene		<12	<11	NA	<11	<11	<11	<56	<11	<11	<11	<60	NA	<11	<11	<59	<11	<11	<12	<11 QI-03	<12	<11	<11	<11		600	160	2,900
Benzyl Alcohol		<770	<740	NA	<740	<750	<730	<740	<740	<740	<750	<800 R-01	NA	<740	<740	<780	<720	<710	<790	<750	<790	<750	<750	<720		3,100	1,300,000	16,000,000
bis (2-ethylhexyl) phthalate		<390	<370	NA	200J	<380	<360	550	<370	<370	<380	<400	NA	<370	<370	1300	<360	<350	<390	290J	<400	<380	<380	<360		7,200	39,000	160,000
Chrysene		<390	<370	NA	<370	<380	<360	<370	<370	<370	<380	<400	NA	<370	<370	<390	<360	<350	<390	<380	<400	<380	<380	<360		18,000	16,000	290,000
Dibenzo(a,h)anthracene		<12	<11	NA	<11	<11	<11	<56	<11	<11	<11	<60 R-01	NA	<11	<11	<59	<11	<11	<12	<11 QI-03	<12	<11	<11	<11		190	16	290
Fluoranthene		<390	<370	NA	<370	<380	<360	<370	<370	<370	<380	<400	NA	<370	<370	<390	<360	<350	<390	<380	<400	<380	<380	<360		330,000	480,000	6,000,000
Fluorene		<390	<370	NA	<370	<380	<360	<370	<370	<370	<380	<400	NA	<370	<370	130J	<360	<350	<390	<.380	<400	<380	<380	<360		56,000	480,000	6,000,000
Indeno(1,2,3-cd)pyrene		<12	<11	NA	<11	<11	<11	<56	<11	<11	<11	<60 R-01	NA	<11	<11	<59	<11	<11	<12	<11 QI-03	<12	<11	<11	<11		2,000	160	2,900
2-Methylnaphthalene		<390	<370	NA	290J	130J	<360	1,200	<370	<370	<380	<400	NA	<370	<370	**1,800**	<360	<350	<390	<380	<400	<380	<380	<360		1,600	48,000	600,000
Phenanthrene		<390	<370	NA	<370	<380	<360	<370	<370	<370	<380	<400	NA	<370	<370	320J	<360	<350	<390	<380	<400	<380	<380	<360		68,000	NE	NE
Pyrene		<390	<370	NA	<370	<380	<360	<370	<370	<370	<380	<400	NA	<370	<370	<390	<360	<350	<390	<380	<400	<380	<380	<360		220,000	360,000	4,600,000
VOLATILES in ug/kg																												
Acetone		<110	<5500	<100	<5200	<5200	<100	<4300	47J	35J	11J	<5700	18J	41J	<5200 R-05	4400J	NA	<100	660J	770J	32	<100	17J	<100		24,000	12,000,000	100,000,000
Benzene		<5.7	<270	<5.2	<260	<260	<5.1	<210	<5.2	<5.5	<4.7	**42J**	<5.1	<5.6	<260 R-05	<540	NA	<5.0	<210	<210	<5.5	<5.0	<4.7	<5.2		7.3	1,200	5,100
Bromoform		<11	<550	<10	<520	<520	<10	<430	<10	<11	<9.5	<570	<10	<11	<520 R-05	<1100	NA	<10	<420	<430	<11	<10	<9.4	<10		19	19,000	86,000
n-Butylbenzene		<11	**13,000**	<10	**6,700**	**3,100**	0.5J	**19,000**	1.3J	<11	<9.5	27J	2.4J	<11	<520 R-05	**83,000**	NA	<10	1,600	230J	<11	<10	<9.4	<10		2,400	110,000	110,000
sec-Butylbenzene		<11	**6,200**	<10	**3,400**	1,300	0.7J	**53,000**	1.6J	<11	<9.5	<570	1.5J	<11	25 J,R-05	**33,000**	NA	<10	480	23J	1.3	<10	43	0.5J		2,200	150,000	150,000
tert-Butylbenzene		<11	420J	<10	350J	140J	<10	260J	<10	<11	<9.5	<570	<10	<11	<520 R-05	1000J	NA	<10	<420	<430	<11	<10	2.1J	<10		1,700	180,000	180,000
Carbon Disulfide		<11	<550	<10	<520	<520	2.2J	<430	<10	<11	<9.5	<570	<10	<11	<520 R-05	<1100	NA	<10	<420	<430	<11	<10	<9.4	<10		3,800	150,000	700,000
Chlorobenzene		<11	27J	<10	<520	<520	0.5J	40J	<10	<11	26	**13,000**	8.5J	0.8J	120 J,R-05	<1100	NA	<10	29J	25J	2.5	<10	<9.4	<10		440	56,000	260,000
Chloromethane		<11	<550	<10	<520	<520	<10	<430	<10	<11	<9.5	<570	<10	<11	<520 R-05	<1100	NA	<10	<210	<430	<11	<10	<9.4	<10		15	22,000	92,000
1,2-Dibromoethane		<11	<550	<10	<520	<520	<10	<430	<10	<11	**1.9J**	<570	<10	<11	<520 R-05	<1100	NA	<10	<420	<430	<11	<10	<9.4	<10		0.097	36	160
1,2-Dichlorobenzene		<11	160J	<10	48J	<520	<10	150J	<10	<11	2.2J	200J	1.0J	<11	<520 R-05	**570J**	NA	<10	58J	<430	<11	<10	5.6J	<10		240	360,000	380,000
1,3-Dichlorobenzene		<11	<550	<10	<520	<520	<10	<430	<10	<11	<9.5	85J	<10	<11	<520 R-05	<1100	NA	<10	<420	<430	<11	<10	1.0J	<10		2,400	NE	NE
1,4-Dichlorobenzene		<11	<550	<10	<520	<520	<10	<430	<10	<11	0.6J	**900**	3.6J	<11	<520 R-05	**110J**	NA	<10	43J	<430	<11	<10	3.1J	<10		70	2,600	11,000
Dichlorodifluoromethane		0.6J	<550	<10	<520	<520	0.3J	<430	<10	<11	<9.5	<570	0.4J	0.5J	<520 R-05	<1100	NA	<10	<420	<430	<11	<10	0.4J	0.4J		29,000	17,000	74,000
1,1-Dichloroethane		<5.7	<270	<5.2	<260	<260	<5.1	<210	<5.2	<5.5	<4.7	<290	<5.1	<5.6	<260 R-05	<540	NA	<5.0	<210	<210	<5.5	<5.0	<4.7	<5.2		30	3,600	16,000
1,2-Dichloroethane		<2.3	<110	<2.1	<100	<100	<2.0	<85	<2.1	<2.2	<1.9	<110	<2.1	<2.2	<100	<220	NA	<2.0	<83	<86	<2.2	<2.0	0.6J	<2.1		2	460	2,000
1,1-Dichloroethene		<5.7	<270	0.4	<260	<260	<5.1	<210	<5.2	<5.5	<4.7	<290	<5.1	<5.6	<260	<540	NA	<5.0	<210	<210	<5.5	<5.0	<4.7	<5.2		2,300	46,000	200,000
Ethylbenzene		<5.7	400	<5.2	260	99J	<5.1	1,500	<5.2	<5.5	<4.7	<290	<5.1	<5.6	<260 R-05	**11,000**	NA	<5.0	33J	47J	<5.5	<5.0	19	<5.2		8,100	5,800	25,000
Isopropylbenzene		<11	**1,500**	<10	670	260J	<10	1,000	<10	<11	<9.5	<570	<10	<11	<520 R-05	**6,500**	NA	<10	28J	<430	<11	<10	9.8	<10		1,300	270,000	270,000
p-Isopropyltoluene		<11	**3,700**	<10	**2,800**	**1,100**	<10	**5,100**	<10	<11	<9.5	<570	<10	<11	<520 R-05	**17,000**	NA	<10	240J	100J	<11	<10	35	<10		680	NE	NE
Methylene Chloride		<11	<550	<10	<520	<520	<10	**29J**	<10	<11	<9.5	<570	<10	<11	<520 R-05	<1100	NA	<10	<420	<430	<11	<10	<9.4	0.5J		23	57,000	640,000
2-Butanone		<110	87 B-01,J	<100	72 B-01,J	81 B-01,J	<100	58 B-01,J	4.8J	<110	<95	97 B-01,J	<100	5.4J	92 R-05,B-01,J	<11000	NA	<100	<4200	<4300	3.4	<100	2.3J	<100		16,000	5,400,000	38,000,000
4-Methyl-2-pentanone (MIBK)		<57	<2700	<52	<2600	<2600	<51	<2100	<52	<55	<47	<2900	<51	<56	<2600	<5400	NA	<50	<2100	<2100	<55	<50	12J	<52		430	1,100,000	3,400,000
Naphthalene		<11	**4,400**	3.5J	**3,000**	**1,500**	3.5J	**5,100**	2.9J	<11	<9.5	<570	<10	<11	<520 R-05	**6,900**	NA	<10	170J	160J	<11	<10	51	4.0J		210	3,800	17,000
n-Propylbenzene		<11	**4,900**	<10	**2,300**	590	<10	**3,500**	<10	<11	<9.5	<570	<10	<11	<520 R-05	**15,000**	NA	<10	130J	<430	<11	<10	27	0.5J		1,500	260,000	260,000
Styrene		<5.7	<270	<5.2	<260	<260	<5.1	<210	<5.2	<5.5	<4.7	<290	<5.1	<5.6	<260 R-05	<540	<5.4	<5.0	<210	<210	<5.5	<5.0	<4.7	<5.2		920	870,000	870,000
Tetrachloroethene		<5.7	<270	<5.2	<260	<260	<5.1	<210	<5.2	<5.5	<4.7	<290	<5.1	<5.6	<260 R-05	**52J**	NA	<5.0	<210	<210	<5.5	<5.0	<4.7	<5.2		5	16,000	78,000
Toluene		<5.7	<270	<5.2	<260	17J	<5.1	<210	<5.2	<5.5	<4.7	<290	<5.1	<5.6	<260 R-05	870	NA	<5.0	<210	<210	<5.5	<5.0	0.3J	<5.2		5,500	820,000	820,000
1,2,3-Trichlorobenzene		<11	<550	<10	<520	<520	<10	<430	<10	<11	<9.5	<9.5	<10	<11	<520	<1,100	NA	<10	<420	<430	<11	<10	<9.4	<10		NE	13,000	190,000
1,2,4-Trichlorobenzene		<11	<550	<10	<520	<520	<10	<430	<10	<11	<9.5	<570	<10	<11	<520	<1100	NA	<10	<420	<430	<11	<10	<9.4	<10		2,200	12,000	52,000
1,2,4-Trimethylbenzene		<11	**29,000**	<10	**13,000**	**6,900**	<10	**19,000**	1.4J	0.9J	<9.5	59J	<10	<11	<520 R-05	**120,000**	NA	<10	560	54J	<11	<10	260CN,E	3.0J		6,700	11,600	48,000
1,3,5-Trimethylbenzene		<11	**7,300**	<10	**8,200**	3,600	<10	**6,700**	<10	<11	<9.5	32J	<10	<11	<520 R-05	**30,000**	NA	<10	270J	51J	<11	<10	93	0.8J		6,700	156,000	182,000
Xylene (Total)		<5.7	730	<5.2	1,200	1,300	<5.1	2,900	<5.2	<5.5	<4.7	<290	<5.1	<5.6	<260 R-05	**20,000**	NA	<5.0	150J	150J	<5.5	<5.0	40	1.3J		6,000	130,000	258,000

Notes:
1. "<" = Not detected above laboratory reporting limit.
2. PSRG = Preliminary Soil Remediation Goals established by NC Inactive Hazardous Sites Branch dated September 2015.
3. NE = No PSRG established.
4. Bold = Indicates concentrations above the lowest PSRG.
5. NA = Not analyzed.
6. J = Estimated value less than reporting limit but greater than method detection limit.
7. QI-02 = Internal standard was outside control limits biased low due to suspected matrix interference.
8. B-01 = Analyte was detected in the associated method blank at an estimated level equal to or greater than the method detection limit. Sample values reported as greater than the method detection limit and less than 10 times the method blank value are reported as estimated values.
9. R-01 = Elevated reporting limit due to matrix interference.
10. R-05 = The sample was diluted due to the presence of high levels of non-target analytes resulting in elevated reporting limits.
11. CN,E = The concentration indicated for this analysis is an estimated value above the calibration range of the instrument.
12. QI-03 = Internal standard was outside control limits biased low. Associated target analytes were not detected at the project specified reporting limit, data was not affected.

TABLE 4 (page 1 of 1)

SUMMARY OF POST-2012 SOIL ANALYTICAL DATA FOR SOUTHERN SOURCE AREA
SAFETY-KLEEN SERVICE CENTER
ARCHDALE, NORTH CAROLINA

PARAMETER	SOURCE	SOUTHERN SOURCE AREA																																			Protection of Groundwater PSRG	Residential PSRG	Industrial PSRG
	BORING	B-2R	B-2R	B-4R	B-5R	B-8R	B-8R	B-8R (Dup)	B-8R1	B-8R1 (Dup)	B-14R	B-16R	B-16R	B-16R1	B-18R	B-33	B-34	B-34-R	B-34-R (Dup)	B-35	B-36	B-36	B-36R	B-37	B-37R	B-37R	B-38	B-39	B-40	B-41	B-41R	B-42	B-48	B-49	SVE-1	SVE-1 (Dup)	SVE-1			
	DEPTH (feet)	2-4	2-4	10-12	8-10	6-8	0-2	0-2	14-15	14-15	12-14	6-8	0-2	8-9	6-8	10-12.5	5-7.5	12.5-14	12.5-14	7.5-10	5-6	6-9	9-11	0-2.5	7.5-10	15-17.5	15-16.5	12.5-15	12.5-15	10-12	7.5-10	5-7.5	9-11	5-7	17-19	17-19	19-21			
	DATE	12/3/12	8/2/13	12/3/12	12/3/12	12/3/12	8/2/13	8/2/13	6/30/15	6/30/15	12/3/12	12/3/12	8/2/13	6/30/15	12/3/12	5/10/12	5/10/12	12/4/12	12/4/12	5/9/12	5/10/12	5/10/12	12/3/12	5/10/12	12/3/12	12/3/12	5/9/12	5/10/12	5/9/12	5/10/12	12/4/12	5/10/12	6/30/15	6/30/15	1/8/16	1/8/16	1/6/16			
SEMIVOLATILES in ug/kg																																								
Naphthalene		<11	<12	<12	<13	**220**	<11	<11	**990**	**910**	<14	**650**	<12	**1,700**	<12	6J	**29,000**	**360**	**510**	<11	**6,600**	140	NA	<12	<12	<17	<11	5J	<11	**3,600**	<12	<13	<12	**3,900**	9	7J	NA	210	3,800	17,000
Benzo(k)fluoranthene		<360	<400	<400	<420	<460	<380	<370	<380	<380	<460	<440	<380	<430	<400	<340	<780	<360	<370	<360	<3740	<350	NA	97J	<400	<560	<370	<360	<360	<420	<410	<420	<390	<1,900	<350	<350	NA	5,900	1,600	29,000
Benzo(a)anthracene		<11	<12	<12	<13	<14	<11	<11	<120	<110	<14	<13	<12	<130	<12	<10	<120	19	14	<11	<23	<10	NA	150	<12	<17	<11	<11	<11	<63	<12	<13	<12	<580	<350	<350	NA	180	160	2,900
Benzo(a)pyrene		<11	<12	<12	<13	<14	<11	<11	<120	<110	<14	<13	<12	<130	<12	<10	<120	**20**	10J	<11	<23	<10	NA	**190 QI-02**	<12	<17	<11	<11	<11	<63	<12	<13	<12	<580	<11	<11	NA	59	16	290
Benzo(b)fluoranthene		<11	<12	<12	<13	<14	<11	<11	<120	<110	<14	<13	<12	<130	<12	<10	<120	29	13J	<11	<23	<10	NA	**340**	<12	<17	<11	<11	<11	<63	<12	<13	<12	<580	<11	<11	NA	600	160	2,900
Benzyl Alcohol		<710	<800	<800	<840	<910	<750	<730	<760	<760	<920	<870	<760	<870	<800	<690	<1600	<720	<740	<730	<750	<690	NA	<770	<790	<1100	<740	<720	<710	<830	<820	<840	<780	<3,800	<700	<690	NA	3,100	1,300,000	16,000,000
bis (2-ethylhexyl) phthalate		<360	<400	<400	<420	<460	<380	<370	180J	180J	<460	<440	240J	280J	<400	<340	2,000	240J	240J	<360	520	<350	NA	230J	<400	<560	<370	<360	<360	520	<410	<420	<390	780J	380	370	NA	7,200	39,000	160,000
Chrysene		<360	<400	<400	<420	<460	<380	<370	<380	<380	<460	<440	<380	<430	<400	<340	<780	<360	<370	<360	<370	<350	NA	230J	<400	<560	<370	<360	<360	<420	<410	<420	<390	<1,900	<350	<350	NA	18,000	16,000	290,000
Dibenzo(a,h)anthracene		<11	<12	<12	<13	<14	<11	<11	<120	<110	<14	<13	<12	<130	<12	<10	<120	<11	<11	<11	<23	<10	NA	**21 QI-02**	<12	<17	<11	<11	<11	<63	<12	<13	<12	<580	<11	<11	NA	190	16	290
Di-n-butyl-phthalate		<360	<400	<400	<420	<460	<380	<370	<380	<380	<460	<440	<380	<430	<400	<340	<780	NA	NA	<360	<370	<350	NA	<390	<400	<560	<370	<390	<360	<420	NA	<420	<390	<1900	160J	150J	NA	19,000	1,300,000	16,000,000
Fluoranthene		<360	<400	<400	<420	<460	<380	<370	<380	<380	<460	<440	<380	<430	<400	<340	<780	<360	<370	<360	<370	<350	NA	420	<400	<560	<370	<360	<360	<420	<410	<420	<390	<1,900	<350	<350	NA	330,000	480,000	6,000,000
Fluorene		<360	<400	<400	<420	<460	<380	<370	<380	<380	<460	<440	<380	<430	<400	<340	540J	<360	<370	<360	<370	<350	NA	<390	<400	<560	<370	<360	<360	<420	<410	<420	<390	<1,900	<350	<350	NA	56,000	480,000	6,000,000
Indeno(1,2,3-cd)pyrene		<11	<12	<12	<13	<14	<11	<11	<120	<110	<14	<13	<12	<130	<12	<10	<120	6J	<11	<11	<23	<10	NA	65 QI-02	<12	<17	<11	<11	<11	<63	<12	<13	<12	<580	<11	<11	NA	2,000	160	2,900
2-Methylnaphthalene		<360	<400	<400	<420	<460	<380	<370	470	420	<460	550	<380	680	<400	<340	**7,200**	220J	310J	<360	1,500	<350	NA	<390	<400	<560	<370	<360	<360	**1,700**	<410	<420	<390	**1,600J**	<350	<350	NA	1,600	48,000	600,000
Phenanthrene		<360	<400	<400	<420	<460	<380	<370	<380	<380	<460	<440	<380	89J	<400	<340	1,300	<360	<370	<360	<370	<350	NA	290J	<400	<560	<370	<360	<360	<420	<410	<420	<390	<1,900	<350	<350	NA	68,000	NE	NE
Pyrene		<360	<400	<400	<420	<460	<380	<370	<380	<380	<460	<440	<380	<430	<400	<340	<780	<360	<370	<360	<370	<350	NA	380J	<400	<560	<370	<360	<360	<420	<410	<420	<390	<1,900	<350	<350	NA	220,000	360,000	4,600,000
VOLATILES in ug/kg																																								
Acetone		<95	NA	27J	<110	1900J	<120	2.6J	160J	<5000	2300J	1700J	170	<5,700	13J	45J	<8300	5,000J	4,700J	<95	<6100	<5700	16J	53J	NA	NA	77J	35J	<130	<7400	190QM-08	<6800	75J	280J	NA	NA	<130	24,000	12,000,000	100,000,000
Benzene		<4.7	NA	<5.1	<5.7	<250	<5.9	<4.9	<270	**9.4J**	<360	<300	<4.4	<290	<6.2	<4.7	<420	<610	<620	<4.8	<300	<290	<5.6	<4.6	NA	NA	<5.6	<6.0	<6.5	<370	<5.8	<340	<5.9	**10J**	NA	NA	<6.3	7.3	1,200	5,100
Bromoform		<9.5	NA	<10	<11	<510	<12	<9.9	<540	<500	<710	<610	<8.8	<570	<12	<9.4	<830	<1200	<1200	<9.5	**240J**	<570	<11	<9.2	NA	NA	<11	<12	<13	<740	<12	<680	<12	<520	NA	NA	<13	19	19,000	86,000
n-Butylbenzene		1.9J	NA	33	1.3J	1,300	<12	<9.9	**6,700**	**23,000**	1,100	**12,000**	<8.8	**2,600**	<12	<9.4	**76,000**	**4,100**	**3,100**	1,100	2,200	**2,500**	69	<9.2	NA	NA	41	8.7J	100	**65,000**	3.4J	890	18	**20,000**	NA	NA	3.5J	2,400	110,000	110,000
sec-Butylbenzene		1.7J	NA	13	<11	450J	<12	<9.9	1,700	**6,200**	460J	**4,100**	<8.8	**8,300**	<12	<9.4	**15,000**	900J	1,000J	1,600	920	1,200	22	8.6J	NA	NA	20	7.3J	99	**24,000**	5.2J	390J	11J	**4,900**	NA	NA	1.5J	2,200	150,000	150,000
tert-Butylbenzene		1.7J	NA	2.8J	<11	150J	<12	<9.9	250J	510	140J	520J	<8.8	550	<12	4.7J	350J	50J	95J	57	82J	88J	5.7J	0.7J	NA	NA	0.8J	0.9J	11J	930	0.6J	35J	3.7J	1,100	NA	NA	0.2J	1,700	180,000	180,000
Carbon Disulfide		<9.5	NA	<10	<11	<510	<12	<9.9	<540	<500	<710	<610	<8.8	<290	<12	<9.4	<830	<1200	<1200	8.8J	<610	<570	<11	8.1J	NA	NA	<11	<12	<13	<740	4.1J	<680	1.3J	<520	NA	NA	<13	3,800	150,000	700,000
Chlorobenzene		<9.5	NA	0.7J	<11	68J	<12	<9.9	<540	91J	<710	<610	<8.8	130J	<12	7.3J	<830	<1200	<1200	<9.5	44J	78J	2.7J	<9.2	NA	NA	<11	<12	2.1J	**570J**	1.0J	<680	<12	84J	NA	NA	<13	440	56,000	260,000
Chloromethane		<9.5	NA	<10	<11	<510	<12	<9.9	<540	<500	<710	<610	<8.8	<570	<12	<9.4	<830	<1200	<1200	<9.5	<610	<570	<11	<9.2	NA	NA	1.0J	<12	<13	<740	<12	<680	<12	<520	NA	NA	<6.3	15	22,000	92,000
1,2-Dibromoethane		<9.5	NA	<10	<11	<510	<12	<9.9	<540	<500	<710	<610	<8.8	<570	<12	<9.4	<830	<1200	<1200	<9.5	<610	<570	<11	<9.2	NA	NA	<11	<12	<13	<740	<12	<680	<12	<520	NA	NA	<13	0.097	36	160
1,2-Dichlorobenzene		2.7J	NA	5.0J	<11	<510	<12	<9.9	190J	**580**	<710	180J	<8.8	21J	<12	5.9J	**360J**	150J	**280J**	<9.5	**580J**	**580**	49	<9.2	NA	NA	<11	<12	<13	<740	<12	<680	<12	**5,600**	NA	NA	<13	240	360,000	380,000
1,3-Dichlorobenzene		<9.5	NA	0.6J	<11	50J	<12	<9.9	42J	160J	<710	56J	<8.8	52J	<12	4.3J	<830	<1200	79J	<9.5	61J	<570	3.8J	<9.2	NA	NA	<11	<12	<13	<740	<12	<680	<12	1,500	NA	NA	<13	2,400	NE	NE
1,4-Dichlorobenzene		1.7J	NA	3.7J	<11	**73J**	<12	<9.9	53J	**200J**	<710	**80J**	<8.8	**75J**	<12	18	<830	<1200	**120J**	<9.5	**390J**	**450J**	23	<9.2	NA	NA	<11	<12	<13	<740	<12	<680	<12	**1,700**	NA	NA	0.5J	70	2,600	11,000
Dichlorodifluoromethane		<9.5	NA	<10	0.4J	<510	<12	<9.9	<540	<500	<710	<610	<8.8	<570	<12	<9.4	<830	<1200	<1200	<9.5	<610	<570	<11	<9.2	NA	NA	<11	<12	<13	<740	0.4J	<680	<12	<520	NA	NA	<13	29,000	17,000	74,000
1,1-Dichloroethane		<4.7	NA	<5.1	<5.7	<250	<5.9	<4.9	<270	<250	<360	<300	<4.4	<290	<6.2	<4.7	**38J**	<610	<620	<4.8	<300	<290	<5.6	<4.6	NA	NA	<5.6	<6.0	<6.5	<370	<5.8	<340	<5.9	<260	NA	NA	<6.3	30	3,600	16,000
1,2-Dichloroethane		<1.9	NA	<2.1	<2.3	<100	<2.4	<2.0	<110	<99	<140	<120	<1.8	<110	<2.5	<1.9	<170	<250	<250	<1.9	<120	<110	<2.2	<1.8	NA	NA	<5.6	<2.4	<2.6	<150	<2.3	<140	<2.3	<100	NA	NA	<2.5	2	460	2,000
1,1-Dichloroethene		<4.7	NA	<5.1	<5.7	<250	<5.9	<4.9	<270	<250	<360	<300	<4.4	<290	<6.2	<4.7	<420	<610	<620	<4.8	<300	<290	<5.6	<4.6	NA	NA	<5.6	<6.2	<6.5	<370	<5.8	<340	<5.9	<260	NA	NA	<6.3	2,300	46,000	200,000
Ethylbenzene		<4.7	NA	0.6J	<5.7	74J	<5.9	<4.9	340	2,600	<360	190J	<4.4	1,200	<6.2	<4.7	1,300	110J	100J	1.8J	35J	<290	0.9J	<4.6	NA	NA	1.3J	<6.0	2.1J	2,600	0.7J	<340	1.4J	1,600	NA	NA	<6.3	8,100	5,800	25,000
Isopropylbenzene		1.7J	NA	3.9J	<11	190J	<12	<9.9	490	**1,700**	170J	740	<8.8	**1,800**	<12	1.2J	**1,500**	90J	130J	27	200J	120J	7.8J	<9.2	NA	NA	2.2J	<12	8.4J	**3,700**	0.9J	39J	4.6J	**2,100**	NA	NA	<13	1,300	270,000	270,000
p-Isopropyltoluene		<9.5	NA	9.2J	<11	670	<12	<9.9	**1,700**	**6,000**	130J	**5,100**	0.9J	**8,100**	<12	<9.4	**14,000**	610J	**730J**	<9.5	640	500J	27	<9.2	NA	NA	10J	<12	<13	**15,000**	<12	200J	4J	**8,700**	NA	NA	0.3J	680	NE	NE
Methylene Chloride		<9.5	NA	<10	<11	<510	<12	<9.9	<540	<500	<710	<610	0.2J	<570	<12	<9.4	**44J**	<1200	<1200	<11	**39J**	**34J**	<11	<9.2	NA	NA	<11	<12	<13	**47J**	<12	**46J**	<12	<520	NA	NA	<13	23	57,000	640,000
2-Butanone		<95	NA	3.8J	<110	<5100	<120	<99	<5400	<5000	<7100	<6100	11J	<5,700	<120	6.3 B-01,J	130 B-01,J	<12000	<12000	<95	91 B-01,J	74 B-01,J	<110	8.5 B-01, J	NA	NA	10J	5.9 B-01,J	<130	110 B-01,J	14J	110 B-01,J	6.1J	74J	NA	NA	<130	16,000	5,400,000	38,000,000
4-Methyl-2-pentanone (MIBK)		<47	NA	<51	<57	<2500	<59	<49	<2700	<2500	<3600	<3000	<44	<2,900	<62	<47	<4200	**490J**	<6200	<48	<3000	<2900	<56	<46	NA	NA	<56	<60	<65	<3700	<58	<3400	<59	<2,600	NA	NA	<63	430	1,100,000	3,400,000
Naphthalene		3.4J	NA	50	<11	**900**	<12	<9.9	**2,000**	**6,000**	**330J**	**1,400**	<8.8	**3,800**	3.9J	3.7J	**53,000**	**2,700**	**2,300**	15	**1,200**	**1,800**	140	3.4J	NA	NA	1.5J	<12	15	**5,500**	<12	160J	6.3J	**13,000**	NA	NA	5.8J	210	3,800	17,000
n-Propylbenzene		1.2J	NA	9.1J	<11	340J	<12	<9.9	1,200	**5,700**	200J	**1,900**	<8.8	**5,100**	<12	2.3J	**6,400**	430J	500J	45	1,000	600	18	<9.2	NA	NA	6.7J	<12	17	**14,000**	1.6J	170J	1.7J	**5,100**	NA	NA	0.6J	1,500	260,000	260,000
Styrene		<4.7	NA	<5.1	<5.7	<250	<5.9	<4.9	<270	<250	<360	<300	1.7J	<290	<6.2	<4.7	<420	<420	<620	<4.8	<300	<290	<5.6	<4.6	NA	NA	<5.6	<6.0	<6.5	<370	<5.8	<340	<5.9	<260	NA	NA	<6.3	920	870,000	870,000
Tetrachloroethene		<4.7	NA	<5.1	<5.7	<250	<5.9	<4.9	<270	<250	<360	<300	<4.4	<290	<6.2	<4.7	<420	<610	<620	<4.8	<300	<290	<5.6	<4.6	NA	NA	<5.6	<6.0	<6.5	<370	<5.8	<340	<5.9	<260	NA	NA	<6.3	5	16,000	78,000
Toluene		<4.7	NA	<5.1	<5.7	<250	<5.9	<4.9	<270	7.4J	<360	<300	0.2J	<290	<6.2	<4.7	190J	<610	<620	<4.8	<300	<290	<5.6	<4.6	NA	NA	<5.6	<6.0	<6.5	<370	<5.8	<340	<5.9	46J	NA	NA	<6.3	5,500	820,000	820,000
1,2,3-Trichlorobenzene		<9.5	NA	<10	<11	<510	<12	<9.9	160J	<250	<710	<610	<8.8	170J	<12	<9.4	<830	<1200	<1200	<9.5	<610	<570	<11	<9.2	NA	NA	<11	<12	<13	<740	<12	<680	<12	180J	NA	NA	<13	NE	13,000	190,000
1,2,4-Trichlorobenzene		<9.5	NA	1.7J	<11	80J	<12	<9.9	200J	190J	110J	110J	<8.8	210J	<12	<9.4	<830	<1200	<1200	<9.5	<9.5	<570	2.0J	<9.2	NA	NA	<11	<12	<13	<740	<12	<680	<12	310	NA	NA	<13	2,200	12,000	52,000
1,2,4-Trimethylbenzene		4.7J	NA	31	1.5J	4,900	<12	<9.9	**9,400**	**45,000**	220J	**24,000**	<8.8	**41,000**	<12	<9.4	**47,000**	1,900	820J	<9.5	6,200	3,200	450	<9.2	NA	NA	23	<12	<13	**76,000**	0.7J	370J	19	**78,000**	NA	NA	0.3J	6,700	11,600	48,000
1,3,5-Trimethylbenzene		2.7J	NA	6.9J	<11	2,100	<12	<9.9	2,700	**12,000**	100J	**9,900**	<8.8	**11,000**	<12	<9.4	**16,000**	720J	300J	<9.5	2,300	1,100	88	<9.2	NA	NA	5.9J	<12	<13	**22,000**	<12	51J	5.1J	**30,000**	NA	NA	<13	6,700	156,000	182,000
Xylene (Total)		<4.7	NA	<5.1	<5.7	240J	<5.9	<4.9	380	1,500	<360	490	<4.4	4,700	<6.2	<4.7	3,700	470J	470J	<4.8	490	150J	19	<4.6	NA	NA	<5.6	<6.0	<6.5	1,800	1.3J	<340	<5.9	**8,600**	NA	NA	<6.3	6,000	130,000	258,000

Notes:
1. "<" = Not detected above laboratory reporting limit.
2. PSRG = Preliminary Soil Remediation Goals established by NC Inactive Hazardous Sites Branch dated September 2015.
3. NE = No PSRG established.
4. Bold = Indicates concentrations above the lowest PSRG.
5. NA = Not analyzed.
6. J = Estimated value less than reporting limit but greater than method detection limit.
7. QI-02 = Internal standard was outside control limits biased low due to suspected matrix interference.
8. B-01 = Analyte was detected in the associated method blank at an estimated level equal to or greater than the method detection limit. Sample values reported as greater than the method detection limit and less than 10 times the method blank value are reported as estimated values.
9. R-01 = Elevated reporting limit due to matrix interference.
10. R-05 = The sample was diluted due to the presence of high levels of non-target analytes resulting in elevated reporting limits.
11. CN,E = The concentration indicated for this analysis is an estimated value above the calibration range of the instrument.
12. QI-03 = Internal standard was outside control limits biased low. Associated target analytes were not detected at the project specified reporting limit, data was not affected.

TABLE 5

MONITORING WELL CONSTRUCTION DATA
SAFETY-KLEEN SERVICE CENTER
ARCHDALE, NORTH CAROLINA

Monitoring Well ID	Date Installed	Well Casing Diameter (inches)	Casing Stick-Up Height (feet)	Top of Casing Elevation (feet)	From Top of Casing		From Ground Surface		Depth to Water		Depth to Product from Top of Casing (feet)	Product Thickness (feet)
					Depth of Well (feet)	Screened Interval (feet)	Depth of Well (feet)	Screened Interval (feet)	From Top of Casing (feet)	From Ground Surface (feet)		
MW-1	12/4/2012	2	NA - flush mount	878.82	25.0	10-25	25.0	10-25	15.81	15.81	ND	ND
MW-2	12/4/2012	2	NA - flush mount	871.92	61.3	46-61	61.3	46-61	29.24	29.24	ND	ND
MW-3	12/4/2012	2	NA - flush mount	871.11	60.2	45-60	60.2	45-60	24.62	24.62	ND	ND
MW-4	12/4/2012	2	2.98	866.91	26.0	11-26	23.0	8-23	11.84	8.86	11.72	0.12
MW-5	12/4/2012	2	NA - flush mount	872.08	15.0	5-15	15.0	5-15	2.85	2.85	ND	ND
MW-6	6/30/2015	2	2.53	857.36	12.5	7.5-12.5	10.0	5-10	3.77	1.24	ND	ND
MW-7	7/1/2015	2	2.88	837.36	11.9	7-12	9.0	4-9	7.02	4.14	ND	ND
MW-8	7/1/2015	2	2.47	854.00	14.5	7.5-14.5	12.0	5-12	7.42	4.95	ND	ND
MW-9	1/4-5/16	2	NA - flush mount	863.30	23.5	11-23.5	23.5	11-23.5	7.98	7.98	ND	ND
MW-10	1/5/2016	4	NA - flush mount	863.58	7.0	4-7	7.0	4-7	4.98	4.98	ND	ND
SVE-1	1/6/2015	4	NA - flush mount	871.17	21.0	5-21	21.0	5-21	15.22	15.22	ND	ND
OW-1	1/7/2016	4	NA - flush mount	872.72	30.0	5-30	30.0	5-30	10.48	10.48	ND	ND
OW-2	1/6/2016	4	NA - flush mount	872.66	25.0	5-25	25.0	5-25	13.72	13.72	ND	ND
OW-3	1/5/2016	4	NA - flush mount	870.09	17.0	5-17	17.0	5-17	13.85	13.85	ND	ND
OW-4	1/5/2016	4	NA - flush mount	871.38	19.0	5-19	19.0	5-19	14.21	14.21	ND	ND
OW-5	1/8/2016	4	NA - flush mount	870.64	10.0	5-10	10.0	5-10	Dry	Dry	ND	ND
OW-6	1/7/2016	4	NA - flush mount	871.12	15.0	5-15	15.0	5-15	Dry	Dry	ND	ND

Notes:

1. Casing stick-up heights in feet above ground surface based on surveyed ground surface and top-of-casing elevations.
2. Top-of-casing elevations referenced in feet above mean sea level.
3. NA = Not applicable.
4. ND = Not detected.

TABLE 6

GROUNDWATER ELEVATION DATA
SAFETY-KLEEN SERVICE CENTER
ARCHDALE, NORTH CAROLINA

Monitoring Well ID	Date Measured	Casing Stick-Up Height (feet)	TOC Elevation (feet)	Depth to Product from TOC (feet)	Depth to Groundwater from TOC (feet)	Product Thickness (feet)	Groundwater Elevations (feet)
MW-1	12/11/2012	NA - Flush Mount	878.82	--	17.60	--	861.22
	3/6/2013			--	16.86	--	861.96
	7/20/2015			--	NM	--	NM
	1/13/2016			--	15.81	--	863.01
MW-2	12/11/2012	NA - Flush Mount	871.92	--	DRY	--	DRY
	3/7/2013			--	51.60	--	820.32
	7/20/2015			--	28.94	--	842.98
	1/13/2016			--	29.24	--	842.68
MW-3	12/11/2012	NA - Flush Mount	871.11	--	DRY	--	DRY
	3/7/2013			--	53.79	--	817.32
	7/20/2015			--	27.20	--	843.91
	1/13/2016			--	24.62	--	846.49
MW-4*	12/11/2012	2.98	866.91	16.34	16.40	0.06	850.56
	3/6/2013			12.98	12.99	0.01	853.93
	7/20/2015			16.20	16.57	0.37	850.62
	1/13/2016			11.72	11.84	0.12	855.16
MW-5	12/11/2012	NA - Flush Mount	872.08	--	4.34	--	867.74
	3/6/2013			--	2.28	--	869.80
	7/20/2015			--	3.41	--	868.67
	1/13/2016			--	2.85	--	869.23
MW-6	7/20/2015	2.53	857.36	--	4.85	--	852.51
	1/13/2016			--	3.77	--	853.59
MW-7	7/20/2015	2.88	837.36	--	7.71	--	829.65
	1/13/2016			--	7.02	--	830.34
MW-8	7/20/2015	2.47	854.00	--	13.61	--	849.69
	1/13/2016			--	7.42	--	846.58
MW-9	1/13/2016	NA - flush mount	863.30	--	7.98	--	855.32
MW-10	1/13/2016	NA - flush mount	863.58	--	4.98	--	858.60
SVE-1	1/13/2016	NA - flush mount	871.17	--	15.22	--	855.95
OW-1	1/13/2016	NA - flush mount	872.72	--	10.48	--	862.24
OW-2	1/13/2016	NA - flush mount	872.66	--	13.72	--	858.94
OW-3	1/13/2016	NA - flush mount	870.09	--	13.85	--	856.24
OW-4	1/13/2016	NA - flush mount	871.38	--	14.21	--	857.17
OW-5	1/13/2016	NA - flush mount	870.64	--	DRY	--	DRY
OW-6	1/13/2016	NA - flush mount	871.12	--	DRY	--	DRY

Notes:
1. TOC = Top of casing.
2. Casing stick-up height in feet above ground surface based on surveyed ground surface and TOC elevations.
3. Elevations referenced in feet above mean sea level.
4. NM = Not measured.
5. * = Corrected groundwater elevations for MW-4 using the following formula: TOC - (DTW - (0.76*Product Thickness)).
6. NA = Not applicable.
7. -- = Not detected.

TABLE 7

GROUNDWATER ANALYTICAL DATA
SAFETY-KLEEN SERVICE CENTER
ARCHDALE, NORTH CAROLINA

Sampling Location	Date	Acetone	Benzene	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon Disulfide	Chlorobenzene	2-Chlorotoluene	Chloroethane	1,1-Dichloroethane	1,2-Dichloroethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	cis-1,2-Dichloroethene	Ethylbenzene	p-Isopropyltoluene	Isopropylbenzene	2-Butanone	2-Hexanone	4-Methyl-2-petnanone	Methyl-tert-Butyl Ether	Naphthalene	n-Propylbenzene	Tetrachloroethene	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl Chloride	Xylenes (Total)
		EPA 8260 ug/L																													
MW-1	12/11/12	52	<1.0	<5.0	<5.0	<5.0	8	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	5.2J	<10	<10	<10	<5.0	<5.0	<1.0	0.4J	<5.0	<5.0	<1.0	1.1J
	12/11/2012 (Dup)	44	<1.0	<5.0	<5.0	<5.0	8.4	0.6J	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<10	<10	<10	<10	<5.0	<5.0	<1.0	<1.0	<5.0	<5.0	<1.0	<2.0
	3/6/13	<10	<1.0	<5.0	<5.0	<5.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<10	<10	<10	<10	<5.0	<5.0	<1.0	<1.0	<5.0	<5.0	<1.0	<2.0
	3/6/2013 (Dup)	<10	<1.0	<5.0	<5.0	<5.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<10	<10	<10	<10	<5.0	<5.0	<1.0	<1.0	<5.0	<5.0	<1.0	<2.0
	7/21/15	NS / Inaccessible																													
	1/14/16	<100	<2.0	<10	<10	<10	<10	<10	<10	<5.0	<2.0	<2.0	<10	<10	<10	<2.0	<2.0	<10	<10	<100	<10	<10	<10	<10	<10	<2.0	<2.0	<10	<10	<2.0	<5
	1/14/2016 (Dup)	<100	<2.0	<10	<10	<10	<10	<10	<10	<5.0	<2.0	<2.0	<10	<10	<10	<2.0	<2.0	<10	<10	<100	<10	<10	<10	<10	<10	<2.0	<2.0	<10	<10	<2.0	<5
MW-2	12/11/12	NS / Dry																													
	3/7/13	23	<1.0	<5.0	<5.0	<5.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<10	<10	<10	<10	<5.0	<5.0	<1.0	0.2J	<5.0	<5.0	<1.0	<2.0
	7/21/15	<10	<1.0	<5.0	<5.0	<5.0	1J	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<10	<10	<10	<10	<5.0	<5.0	<1.0	<1	<5.0	<5.0	<1.0	<2.0
	7/21/15 (Dup)	<10	0.2J	<5.0	<5.0	<5.0	0.5J	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<10	<10	<10	<10	<5.0	<5.0	<1.0	<1.0	<5.0	<5.0	<1.0	<2.0
	1/14/16	<100	<2.0	<10	<10	<10	<10	<10	<10	<5.0	<2.0	<2.0	<10	<10	<10	<2.0	<2.0	<10	<10	<100	<10	<10	<10	<10	<10	<2.0	<2.0	<10	<10	<2.0	<5
MW-3	12/11/12	NS / Dry																													
	3/7/13	55	<1.0	<5.0	<5.0	<5.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.2J	<1.0	<5.0	<5.0	<10	<10	<10	<10	<5.0	<5.0	<1.0	<1.0	<5.0	<5.0	<1.0	<2.0
	7/21/15	<10	<1.0	<5.0	<5.0	<5.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<10	<10	<10	<10	<5.0	<5.0	<1.0	<1.0	<5.0	<5.0	<1.0	<2.0
	1/15/16	<100	<2.0	<10	<10	<10	<10	<10	<10	<5.0	<2.0	<2.0	<10	<10	<10	<2.0	<2.0	<10	<10	<100	<10	<10	<10	<10	<10	<2.0	<2.0	<10	<10	<2.0	<5
MW-4	12/11/12	270	0.5J	**750**	**280**	22	<5.0	**59**	<1.0	<1.0	<1.0	<1.0	2.3	4.7	**13**	0.4J	41	**280**	44	2.3J	<10	<10	<10	**140**	**230**	<1.0	<1.0	**900**	94	**0.2J**	6.9
	3/6/13	<10	0.5J	64	38	4.0J	<5.0	**68**	<1.0	<1.0	<1.0	<1.0	1.0	2.4	**6.7**	<1.0	9.5	21	22	<10	<10	<10	<10	**40**	44	<1.0	0.2J	100	4.2J	**0.2J**	1.9J
	7/20/15	NS / Free Product																													
	1/13/16	NS / Free Product																													
MW-5	12/11/12	61	**2.5**	<5.0	1.4J	1.1J	<5.0	**480**	<1.0	<1.0	<1.0	<1.0	2.4	1.8	**23**	<1.0	2.4	2.1J	1.1J	2.2J	<10	<10	<10	**12**	<5.0	<1.0	0.4	1.1	<5.0	<1.0	2
	3/6/13	<10	**8.6**	13	7.2	1.5J	<5.0	**1400**	0.3J	<1.0	<1.0	<1.0	4.4	2.5	**44**	<1.0	7.4	2.3J	5.2	<10	<10	<10	<10	**18**	10	<1.0	0.2J	3.6J	<5.0	<1.0	1.4J
	7/21/15	<10	**4.2**	4.3J	3.5J	2.6J	<5.0	**450**	<1.0	<1.0	<1.0	<1.0	0.7J	0.8J	**11**	<1.0	0.6J	2.1J	3.5J	<10	<10	<10	<10	5.8	2.7J	<1.0	<1.0	1.8J	<5.0	<1.0	<2.0
	1/14/16	<100	**5.8**	6.2J	5.8J	0.7J	<10	**480**	<10	<5.0	<2.0	<2.0	0.8J	1.2J	**18**	<2.0	1.2J	<10	2.2J	<100	<10	<10	<10	4.5J	4.8J	<2.0	<2.0	<10	<10	<2.0	<5
MW-6	7/21/15	27	0.5J	<5.0	<5.0	<5.0	0.7J	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	16	<5.0	2.2J	<10	6.9J	<10	<5.0	<5.0	<1.0	0.6J	<5.0	<5.0	<1.0	<2.0
	1/14/16	<100	<2.0	<10	<10	<10	<10	<10	<10	<5.0	<2.0	<2.0	<10	<10	<10	<2.0	<2.0	<10	<10	<100	<10	<10	<10	<10	<10	<2.0	<2.0	<10	<10	<2.0	<5
MW-7	7/20/15	81	<1.0	<5.0	<5.0	<5.0	2.6J	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	7.4J	<10	<10	<10	<5.0	<5.0	<1.0	<1.0	<5.0	<5.0	<1.0	<2.0
	1/13/16	<100	<2.0	<10	<10	<10	<10	1.7J	<10	<5.0	<2.0	<2.0	<10	<10	<10	<2.0	<2.0	<10	<10	<100	<10	<10	<10	<10	<10	<2.0	<2.0	<10	<10	<2.0	<5
MW-8	7/21/15	40	0.4J	<5.0	<5.0	<5.0	<5.0	2.8	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	14	6J	<10	<10	<5.0	<5.0	0.5J	0.4J	<5.0	<5.0	<1.0	<2.0
	1/13/16	<100	<2.0	<10	<10	<10	<10	<10	<10	<5.0	<2.0	<2.0	<10	<10	<10	<2.0	<2.0	<10	<10	<100	<10	<10	<10	<10	<10	<2.0	<2.0	<10	<10	<2.0	<5
MW-9	1/14/16	230	**2.5**	<10	3.8J	5.5J	<10	46	<10	<5.0	<2.0	<2.0	4.6J	3.2J	**9J**	0.8J	34	**42**	5.2J	<100	<10	<10	<10	**26**	1.5J	<2.0	1J	0.7J	87	<2.0	19
MW-10	1/14/16	25J	<2.0	<10	11	3.3J	<10	7.6J	<10	<5.0	<2.0	<2.0	0.6J	2.7J	5.6J	<2.0	0.5J	10	1.9J	<100	<10	<10	<10	2.1	2.8J	<2.0	<2.0	14	5.8J	<2.0	0.4J
SVE-1	1/15/16	23J	**2.3**	<10	3.8J	6.4J	<10	**140**	0.9J	0.9J	1.7J	**1.8J**	10	6J	**33**	<2.0	18	4.7J	6.6J	<100	<10	<10	<10	**48**	4.1J	<2.0	0.4J	<10	21	<2.0	7
OW-1	1/14/16	9.8J	<2.0	<10	<10	<10	<10	<10	<10	<5.0	<2.0	<2.0	0.5J	<10	<10	<2.0	<2.0	<10	<10	<100	<10	<10	<10	<10	<10	<2.0	<2.0	<10	<10	<2.0	<5
OW-2	1/15/16	16J	0.4J	<10	0.4J	0.6J	<10	35	<10	<5.0	<2.0	**0.8J**	4.5J	<10	1.6J	<2.0	2.2	1.3J	0.7J	<100	<10	<10	<10	2.4J	0.4J	<2.0	0.6J	<10	17	<2.0	5.5
OW-3	1/14/16	55J	0.5J	<10	11	12	<10	18	<10	<5.0	<2.0	<2.0	4.4J	1.5J	**8.2J**	<2.0	0.4J	<10	3.4J	4.7J	<10	<10	8.1J	4.7J	1.3J	<2.0	<2.0	<10	<10	<2.0	<5
OW-4	1/15/16	430	**1.9J**	60	45	3.8J	<10	30	<10	0.6J	<2.0	**1.9J**	8.6J	3.5J	**7.4J**	0.5J	41	18	29	83J	<10	5.1J	<10	**57**	51	<2.0	0.4J	110	18	<2.0	5.8
OW-5	1/15/16	NS / Dry																													
OW-6	1/15/16	NS / Dry																													
NC 2L Std		6,000	1	70	70	70	700	50	100	NE	6	0.4	20	200	6	70	600	25	70	4000	40	NE	20	6	70	0.7	600	400	400	0.03	500

Sampling Location	Date	Bis (2-ethylhexyl) phthalate	Benzo(a)anthracene	Benzo(k)fluoranthene	Benzyl alcohol	Benzyl butyl phthalate	Benzo(a)pyrene	Chrysene	Dibenzo(a,h)anthracene	Dimethyl phthalate	2-Methylnaphthalene	Naphthalene	Diethyl phthalate	Indeno(1,2,3-cd)pyrene	Pentachlorophenol	Phenanthrene	Benzo(b)fluoranthene	4,6-Dinitro-2-methylphenol
		EPA 8270 ug/L																
MW-1	12/11/12	**5.7J**	<0.9	<0.9	<19	<9.4	<0.9	<0.9	<0.9	<9.4	<9.4	0.08J	<9.4	<0.9	<0.9	<9.4	<0.9	<47
	12/11/2012 (Dup)	**5.7J**	<0.9	<0.9	<19	<9.4	<0.9	<0.9	<0.9	<9.4	<9.4	0.2J	<9.4	<0.9	<0.9	<9.4	<0.9	<47
	3/6/13	<10	<1	<1	<10	<9.4	<1	<1	<1	<10	<10	0.1J	<9.4	<1	<0.9	<10	<1	<50
	3/6/2013 (Dup)	<9.4	<0.9	<0.9	<19	<9.4	<0.9	<0.9	<0.9	<9.4	<9.4	<0.9	<9.4	<0.9	<0.9	<9.4	<0.9	<47
	7/21/15	NS / Inaccessible																
	1/14/16	<10	<1.0	<1.0	<20	<10	<1.0	<1.0	<1.0	<10	<10	<1.0	<10	<1.0	<1.0	<10	<1	<50
	1/14/2016 (Dup)	<10	<1.0	<1.0	<20	<10	<1.0	<1.0	<1.0	<10	<10	<1.0	<10	<1.0	<1.0	<10	0.02J	<50
MW-2	12/11/12	NS / Dry																
	3/7/13	<9.4	<0.9	<0.9	<19	<9.4	<0.9	<0.9	<0.9	<9.4	<9.4	<0.9	<9.4	<0.9	<0.9	<9.4	<0.9	<47
	7/21/15	**4.2J,B-01***	<1.0	<1.0	<20	3.2J	<1.0	<1.0	<1.0	<10	<10	<1	<10	<1.0	<1.0	<10	<1.0	<50
	7/21/15 (Dup)	**3.8J,B-01***	<1.0	<1.0	<20	3.2J	<1.0	<1.0	<1.0	<10	<10	<1.0	<10	<1.0	<1.0	<10	<1.0	<50
	1/14/16	<10	<1.0	<1.0	<20	<10	<1.0	<1.0	<1.0	<10	<10	<1.0	<10	<1.0	<1.0	<10	<1.0	6.0J
MW-3	12/11/12	NS / Dry																
	3/7/13	<9.4	<0.9	<0.9	<19	<9.4	<0.9	<0.9	<0.9	<9.4	<9.4	<0.9	<9.4	<0.9	<0.9	<9.4	<0.9	<47
	7/21/15	**3.6J,B-01***	<1.0	<1.0	<20	3.2J	<1.0	<1.0	<1.0	<10	<10	<1.0	<10	<1.0	<1.0	<10	<1.0	<50
	1/15/16	<10	<1.0	<1.0	<20	<10	<1.0	<1.0	<1.0	<10	<10	<1.0	<10	<1.0	<1.0	<10	<1.0	<50
MW-4	12/11/12	**190**	<5	<5	<94	<9.4	<5	<5	<5	<47	**56**	**100**	<9.4	<5	<0.9	4.8	<5	<240
	3/6/13	<9.4	<0.9	<0.9	<19	<9.4	<0.9	<0.9	<0.9	<9.4	3.7J	**26**	<9.4	<0.9	<0.9	<9.4	<0.9	<47
	7/20/15	NS / Free Product																
	1/13/16	NS / Free Product																
MW-5	12/11/12	**7.8**	<0.9	<0.9	<19	<9.4	<0.9	<0.9	<0.9	<9.4	1.1	**6**	<9.4	<0.9	<0.9	<9.4	<0.9	<47
	3/6/13	<9.4	<0.9	<0.9	<19	<9.4	<0.9	<0.9	<0.9	<9.4	<9.4	**6**	<9.4	<0.9	<0.9	<9.4	<0.9	<47
	7/21/15	**3.7J,B-01***	<1.0	<1.0	<20	<10	<1.0	<1.0	<1.0	<10	<10	1.8	<10	<1.0	**0.89J****	<10	<1.0	<50
	1/14/16	<10	<1.0	<1.0	<20	<10	<1.0	<1.0	<1.0	<10	<10	2.7	<10	<1.0	<1.0	<10	<1.0	<50
MW-6	7/21/15	**4J,B-01***	<1.0	<1.0	<20	3.5J	<1.0	<1.0	<1.0	<10	<10	<1.0	3.9J	<1.0	<1.0	<10	<1.0	<50
	1/14/16	<10	<1.0	<1.0	<20	<10	<1.0	<1.0	<1.0	<10	<10	0.07J	<10	<1.0	<1.0	<10	<1.0	<50
MW-7	7/20/15	**3.6J,B-01***	<1.0	<1.0	<20	3.3J	<1.0	<1.0	<1.0	<10	<10	<1.0	<10	<1.0	<1.0	<10	<1.0	<50
	1/13/16	<10	<1.0	<1.0	<20	<10	<1.0	<1.0	<1.0	<10	<10	<1.0	<10	<1.0	<1.0	<10	<1.0	<50
MW-8	7/21/15	**5J,B-01***	<1.2	<1.2	<24	4.7J	<1.2	<1.2	<1.2	<12	<10	<1.0	11J	<1.2	<1.0	<10	<1.2	<61
	1/13/16	<10	<1.0	<1.0	<20	<10	<1.0	<1.0	<1.0	<10	<10	<1.0	<10	<1.0	<1.0	<10	<1.0	<50
MW-9	1/14/16	<10	<1.0	<1.0	<20	<10	<1.0	<1.0	<1.0	<10	<10	<1.0	4.6J	<1.0	<1.0	<10	<1.0	<50
MW-10	1/14/16	<10	<1.0	<1.0	<20	<10	<1.0	<1.0	<1.0	<10	<10	<1.0	<10	<1.0	<1.0	<10	<1.0	<50
SVE-1	1/15/16	<10	<1.0	<1.0	<20	<10	<1.0	<1.0	<1.0	41	3.2J	**29**	<10	<1.0	<1.0	<10	<1.0	<50
OW-1	1/14/16	<10	<1.0	<1.0	<20	<10	<1.0	<1.0	<1.0	<10	<10	<1.0	<10	<1.0	<1.0	<10	<1.0	<50
OW-2	1/15/16	<10	**0.29J**	0.30J	<20	<10	**0.26J**	0.29J	**0.29J**	<10	<10	0.36J	<10	**0.29J**	<1.0	<10	**0.28J**	<50
OW-3	1/14/16	**8.3J**	<1.0	<1.0	<20	<10	<1.0	<1.0	<1.0	<10	3.7J	2.1	4.8J	<1.0	<1.0	<10	<1.0	<50
OW-4	1/15/16	<10	**0.16J**	0.12J	3.1J	<10	**0.09J**	0.09J	<1.0	<10	6.9J	**35**	<10	<1.0	<1.0	<10	**0.11J**	<50
OW-5	1/15/16	NS / Dry																
OW-6	1/15/16	NS / Dry																
NC 2L Std		3	0.05	0.5	700	1,000	0.005	5	0.005	NE	30	6	6,000	0.05	0.3	200	0.05	NE

Notes:
1. "<" = Not detected above laboratory reporting limit.
2. NC 2L Standard = Title 15A NCAC 2L .0202 Groundwater Standard or Interim Maximum Allowable Concentration (IMAC) updated April 2013.
3. Bold = Indicates concentrations above the corresponding NC 2L Standard.
4. NS = Not sampled.
5. J = Estimated value less than reporting limit but greater than method detection limit.
6. NE = Not established.
7. * = Bis(2-ethylhexyl)phthalate was detected in every sample and in the method blank in July 2015 and is therefore attributed to laboratory contamination.
8. ** = Pentachlorophenol concentration in MW-5 in July 2015 is considered suspect based on detection of a similar concentration in the method blank.

TABLE 8

SOIL VAPOR EXTRACTION EFFLUENT ANALYTICAL DATA
SAFETY-KLEEN SERVICE CENTER
ARCHDALE, NORTH CAROLINA

Sampling Location	Date	Acetone	Benzene	1,1-Dichloroethane	cis-1,2-Dichloroethene	Ethylbenzene	Toluene	Vinyl Chloride
		EPA TO-15 ug/m^3						
SVE-1 (40" H2O)	1/19/16	<24	3.9	10	<4.0	5.3	4.0	3.2
SVE-1 (100" H2O)	1/19/16	64	6.3	33	6.9	33	6.1	4.3
SVE-2 (40" H2O)	1/20/16	<24	<3.2	<4.1	<4.0	12	6.4	3.9
SVE-2 (100" H2O)	1/20/16	<24	4.2	<4.1	7.4	17	6.6	15

Notes:
1. "<" = Not detected above laboratory reporting limit.

TABLE 9

IMPLEMENTATION SCHEDULE
SAFETY-KLEEN SERVICE CENTER
ARCHDALE, NORTH CAROLINA

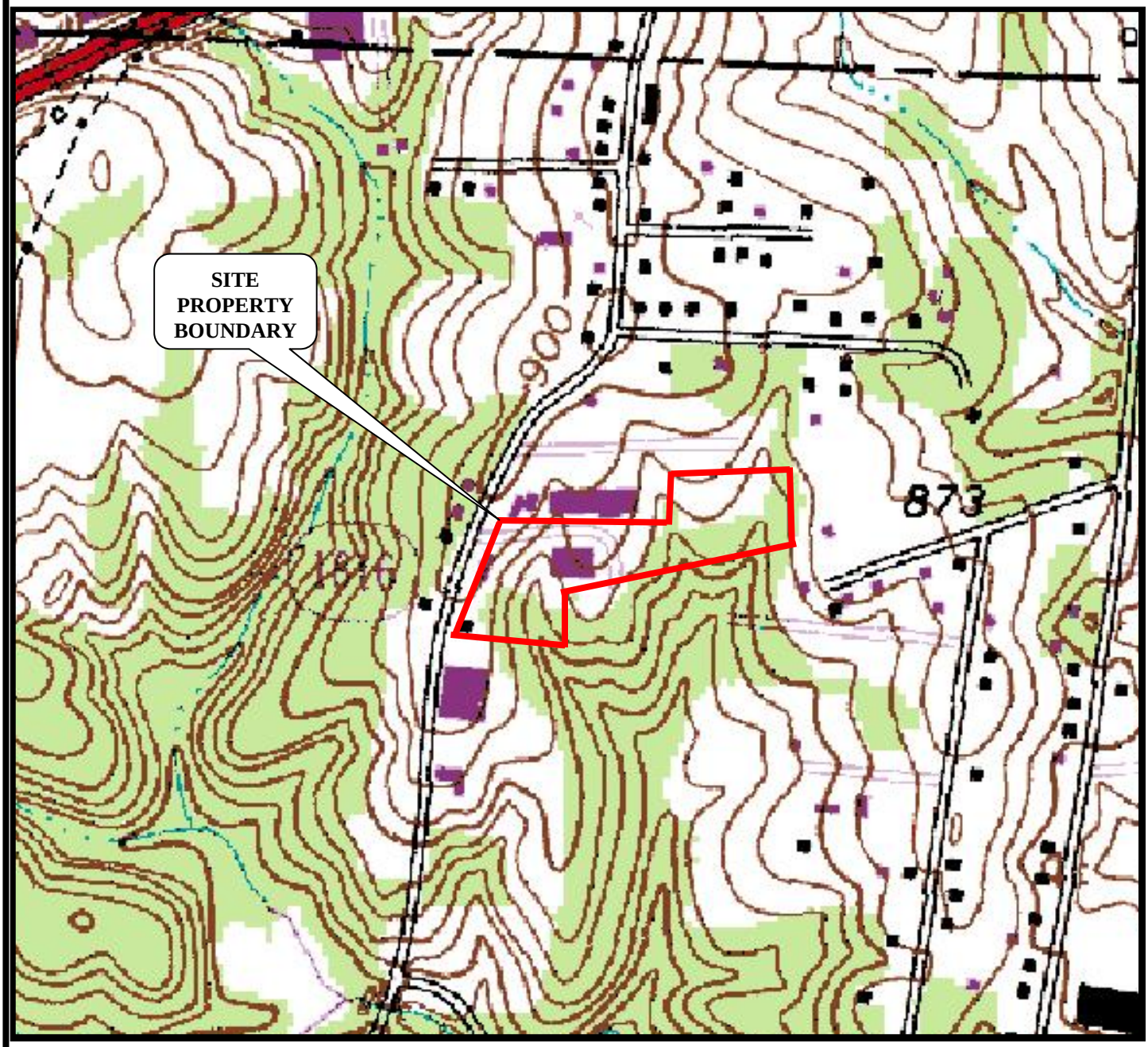
TASK	Year 1												Year 2											
	Quarter 1			Quarter 2			Quarter 3			Quarter 4			Quarter 1			Quarter 2			Quarter 3			Quarter 4		
	Month 1	Month 2	Month 3	Month 1	Month 2	Month 3	Month 1	Month 2	Month 3	Month 1	Month 2	Month 3	Month 1	Month 2	Month 3	Month 1	Month 2	Month 3	Month 1	Month 2	Month 3	Month 1	Month 2	Month 3
NCDEQ Approval of CMS																								
SCHEDULE RELATED TO LNAPL GROUNDWATER REMEDIATION																								
AFVR Event																								
SCHEDULE RELATED TO DISSOLVED PHASE GROUNDWATER REMEDIATION																								
Groundwater Sampling Event																								
SCHEDULE RELATED TO SVE FOR SOIL REMEDIATION																								
Confer with off-site property owners regarding proposed corrective measures																								
Submittal to NCDEQ of any changes to scope based on discussions with off-site property owners and final proposed SVE design specifications.																								
Estimated date of receipt of approval for final SVE design specifications (may vary depending on NCDEQ response time)																								
Preparation of bidding specifications and collection of bids for system construction (if applicable)																								
System construction by subcontractor (if applicable) and permitting with local entities																								
Final SVE system installation and startup																								
Quarterly SVE influent sampling																								

TABLE 10

ANALYTICAL METHODS, CONTAINERS, PRESERVATIVES AND HOLDING TIMES
SAFETY-KLEEN SERVICE CENTER
ARCHDALE, NORTH CAROLINA

Constituent	Analytical Method Numbers	Sample Container and Preservative	Maximum Holding Time	Proposed Sampling Locations
Volatile Organic Compounds	EPA 8260B	One (1) 40 ml glass vial, headspace free, HCl preservative (pH<2), cool to 4°C Two (2) 40 ml glass vials, headspace free, cool to 4°C	7 days for unpreserved vials, 14 days for preserved vial	MW-1 through MW-10, Trip Blank, Duplicate
Semivolatile Organic Compounds (Polynuclear Aromatic Hydrocarbons Only)	EPA 8270D	Two (2) 1 liter amber bottles, cool to 4°C	14 days for extraction, 40 days after extraction	MW-1 through MW-10, Duplicate

FIGURES



Quadrangle Location

0 517

Scale in feet

N

SOURCE: USGS 7.5 MINUTE SERIES TOPOGRAPHIC MAP, HIGH POINT WEST, NC QUADRANGLE, 10-FOOT CONTOUR INTERVAL

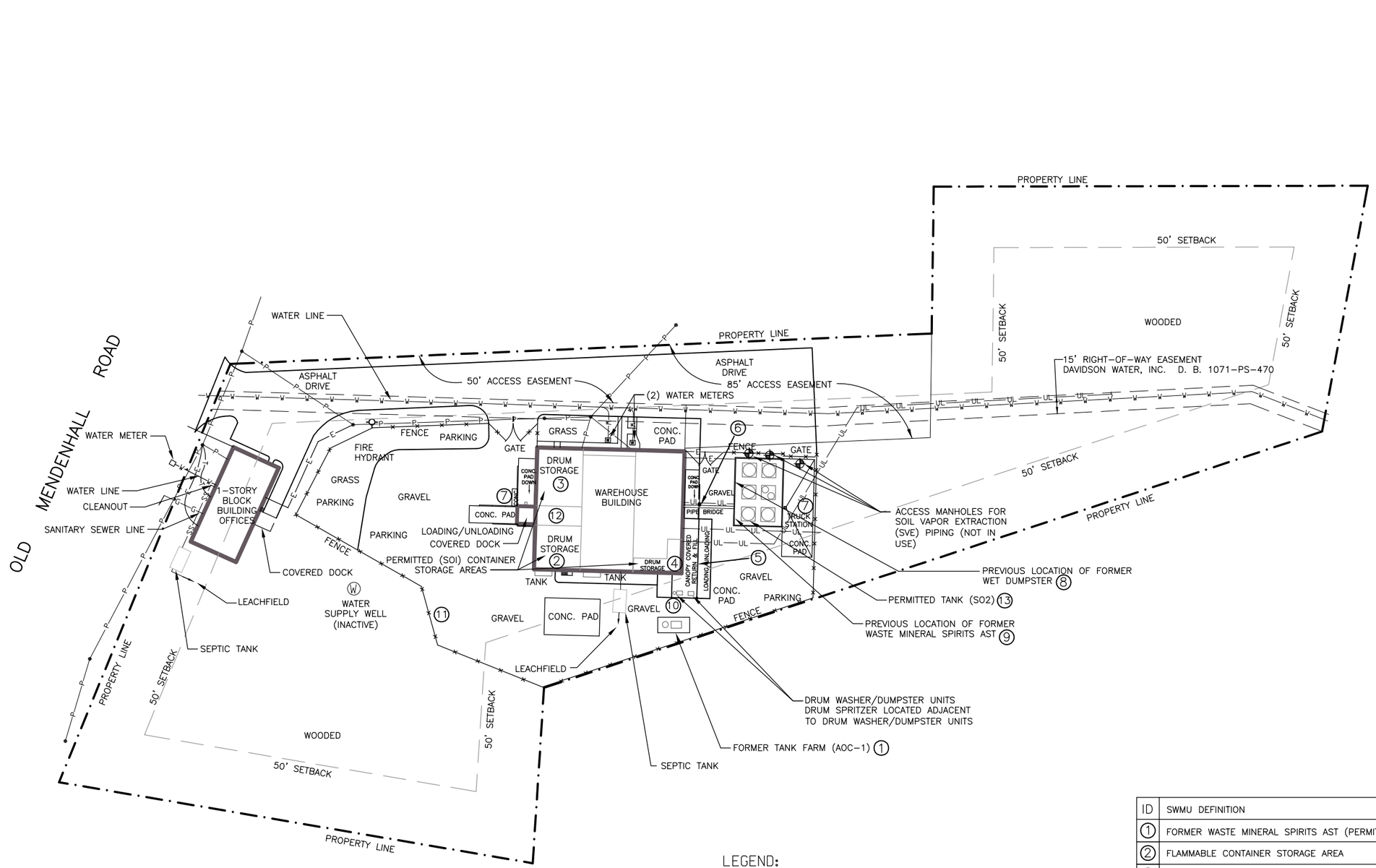
ATC
2725 E. Millbrook Road, Suite 121
Raleigh, NC 27604
(919) 871-0999

PROJECT NO: SKARCHDAL1

REVIEWED BY: GKO	SCALE:1"=517'	DATE: 3-1-16

FIGURE 1
TOPOGRAPHIC MAP

SAFETY-KLEEN SYSTEMS, INC.
6182 OLD MENDENHALL ROAD
ARCHDALE, NORTH CAROLINA 27263



LEGEND:

- PROPERTY BOUNDARY LINE
- OVERHEAD POWER/TELEPHONE LINE
- WATER LINE
- SANITARY SEWER LINE
- NATURAL GAS LINE
- ELECTRIC LINE
- TELEPHONE LINE
- UNKNOWN LINE
- WATER METER
- SVE PIPING ACCESS MANHOLE
- SWMU NUMBER
- WATER SUPPLY WELL

ID	SWMU DEFINITION
1	FORMER WASTE MINERAL SPIRITS AST (PERMITTED)
2	FLAMMABLE CONTAINER STORAGE AREA
3	NORTHWEST CONTAINER STORAGE AREA
4	SOUTHEAST CONTAINER STORAGE AREA
5	SOLVENT RETURN AND FILL STATION
6	STORM DRAIN
7	FORMER MUNICIPAL WASTE DUMPSTERS
8	FORMER WET DUMPSTER (INTERIM STATUS)
9	FORMER WASTE MINERAL SPIRITS AST (INTERIM STATUS)
10	ALUMINUM FILTER BALER
11	WASTE OIL TRAILER
12	FLUID RECOVERY SERVICE ACCUMULATION AREA
13	EXISTING WASTE MINERAL SPIRITS AST

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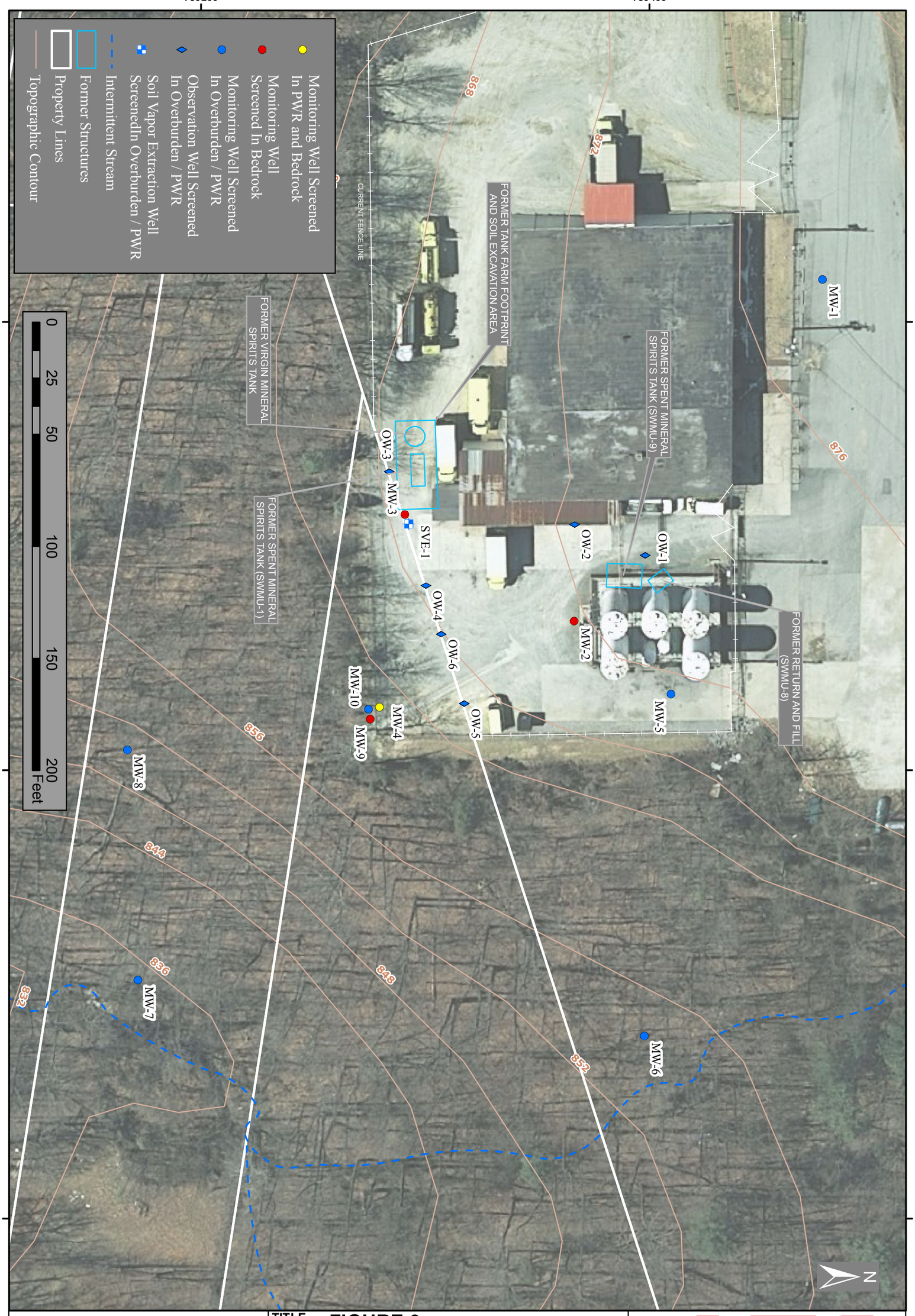
PROJECT NO.	DATE	SCALE	REV. BY	PREP. BY	TYPE CODE
SKARCHDAL1	03-04-2016	1" = 80'	GO	ED	

TITLE **FIGURE 2**
SWMU LOCATION MAP
SAFETY-KLEEN SYSTEMS, INC.
6180 OLD MENDENHALL ROAD.
ARCHDALE, NORTH CAROLINA

CAD FILE 1252897.DWG

NOTES:

03/16/2016 11:01am - sthompson - H:\125 - ATC___1252897_p1-03-04-16.dwg



NOTES:

1. TOPOGRAHPIC CONTOUR INTERVAL = 4'.

TITLE **FIGURE 3**

SITE MAP
SAFETY-KLEEN FACILITY
6182 OLD MENDENHALL ROAD
ARCHDALE, RANDOLPH COUNTY, N.C.

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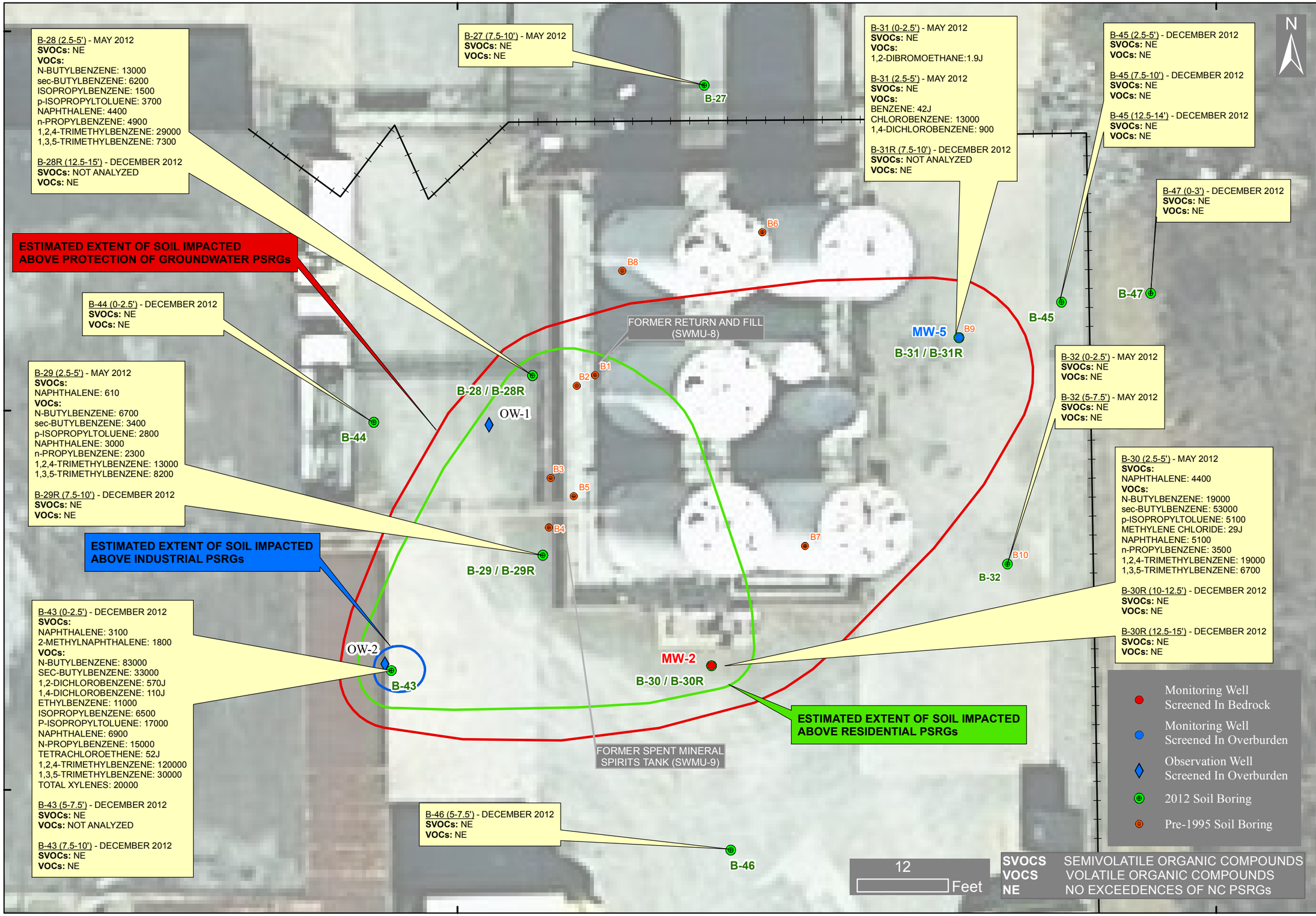
MAP FILE:	PREP:	REV:	SCALE:	DATE:	PROJECT NO.
	RB	GO	1" = 40'	3/16/2016	SKARCHDAL1

Path: S:\GIS_GPS\Project_Folders\SK_Archdale\2016-02 Report\Figure 3 -Site Map SK Archdale.mxd



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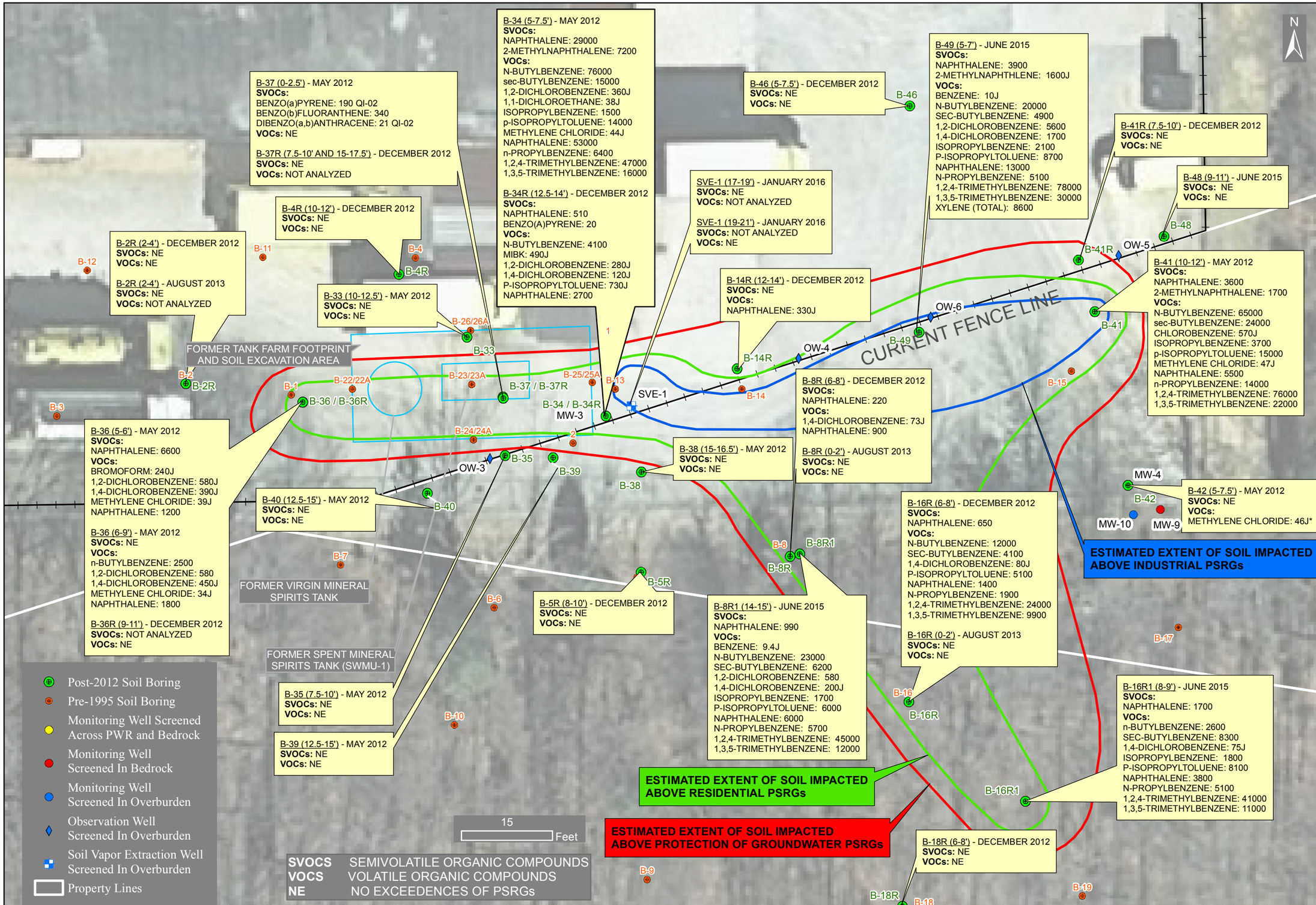
PROJECT NO. SKARCHDAL1
DATE: 3/31/2016
SCALE: 1" = 12'
REV: GO
PREP: ED / RB
MAP FILE:

TITLE **FIGURE 4**
NORTHERN SOURCE AREA ANALYTICAL MAP
SAFETY-KLEEN FACILITY
6182 OLD MENDENHALL ROAD
ARCHDALE, RANDOLPH COUNTY, N.C.

NOTES:
1. PSRGs=NC INACTIVE HAZARDOUS SITES BRANCH PRELIMINARY SOIL REMEDIATION GOALS UPDATED SEPTEMBER 2015.
2. ONLY POST- 2012 DATA IS SHOWN.
3. DATA CALLOUTS ONLY SHOW COMPOUNDS EXCEEDING NC PSRGs.
4. B-30R AND MW-2 SHARE BORING LOCATION.
5. B-31R AND MW-5 SHARE BORING LOCATION.
6. CONCENTRATION SHOWN IN MICROGRAMS PER KILOGRAM.
7. NE=NO EXCEEDENCES OF PSRGs.

S:\GIS_GPS\Project_Folders\SK_Archdale\2016-02 Report\Mxds_propbably_need_to_be_deleted\Figure 4 - Northern Source Area Analytical Map.mxd



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PROJECT NO.	DATE:	SCALE:	REV:	PREP:
SKARCHDAL1	3/31/2016	1" = 15'	GO	RB

TITLE **FIGURE 5**

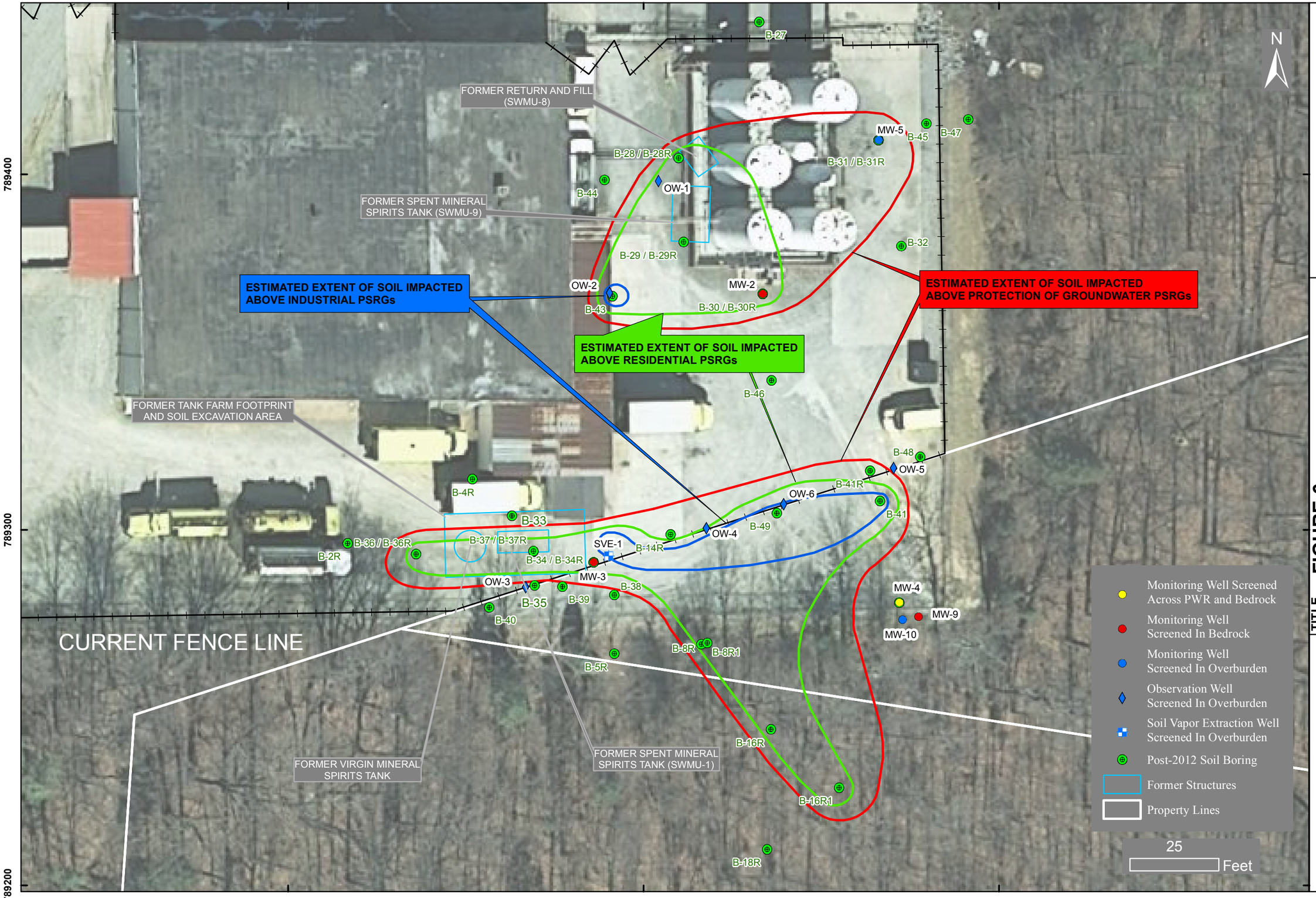
SOUTHERN SOURCE AREA ANALYTICAL MAP
SAFETY-KLEEN FACILITY
6182 OLD MENDENHALL ROAD
ARCHDALE, RANDOLPH COUNTY, N.C.

MAP FILE: 2013-01_SKA.mxd

NOTES:

1. PSRG= NC INACTIVE HAZARDOUS SITES BRANCH PRELIMINARY SOIL REMEDIATION GOALS DATED SEPTEMBER 2015.
2. ONLY POST-2012 DATA IS SHOWN.
3. DATA CALLOUTS ONLY SHOW COMPOUNDS EXCEEDING PSRGs.
4. B-34R AND MW-3 SHARE BORING LOCATION.
5. CONCENTRATIONS SHOWN REPRESENT HIGHEST RESULT FROM ORIGINAL AND DUPLICATE SAMPLE, WHEN APPLICABLE.
6. * = METHYLENE CHLORIDE ATTRIBUTED TO LABORATORY CONTAMINATION.
7. CONCENTRATIONS SHOWN IN MICROGRAMS PER KILOGRAM.
8. NE=NO EXCEEDENCES OF PSRGs.

Path: S:\GIS_GPS\Project_Folders\SK_Archdale\2016-02 Report\Figure 5 - Southern Source Area Analytical Map.mxd



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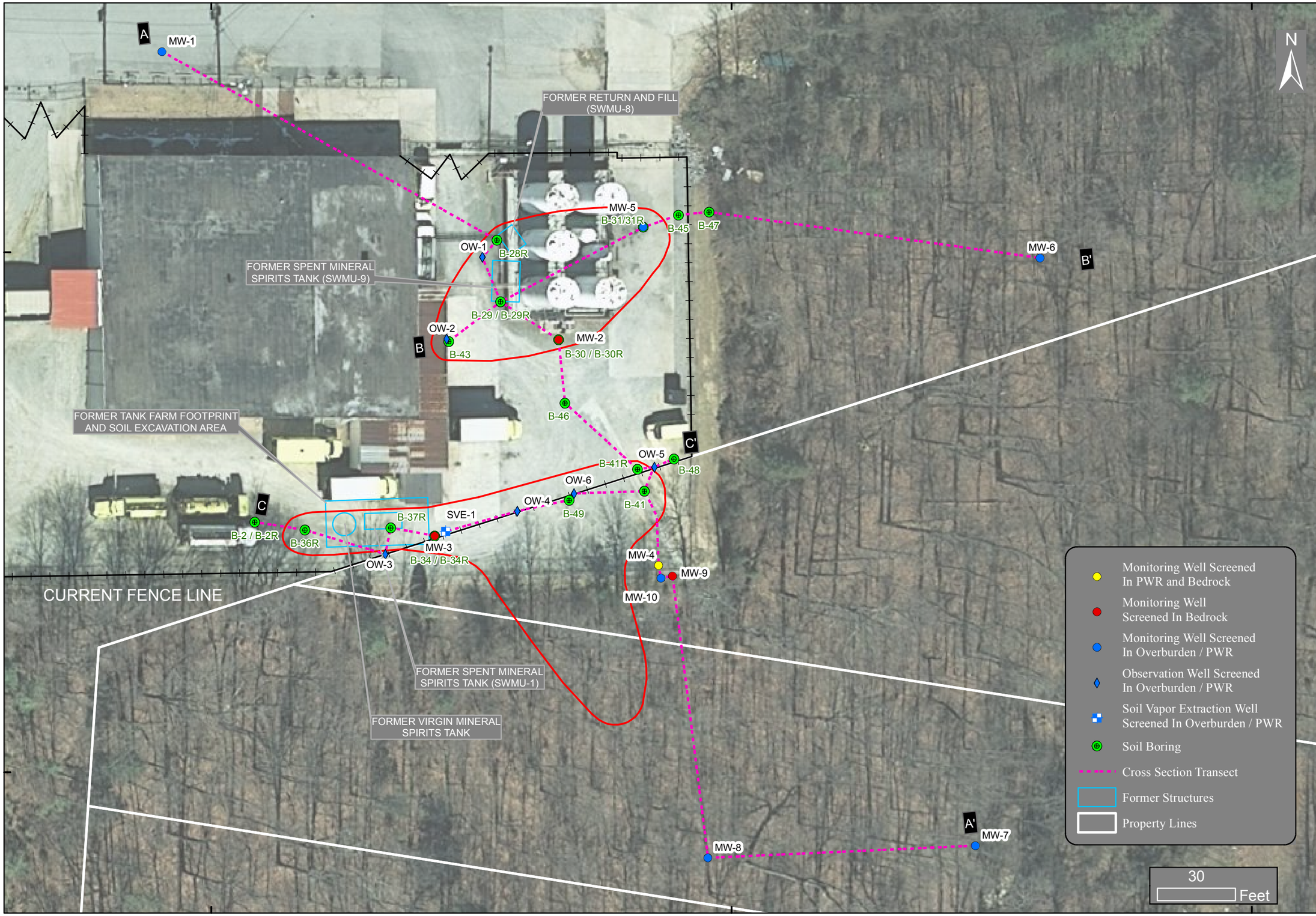
PROJECT NO. SKARCHDAL1
DATE: 3/16/2016
SCALE: 1" = 25'
REV: GO
PREP: RB

TITLE **FIGURE 6**
EXTENT OF IMPACTED SOIL MAP
SAFETY-KLEEN FACILITY
6182 OLD MENDENHALL ROAD
ARCHDALE, RANDOLPH COUNTY, N.C.

MAP FILE: 2013-01_SKA.mxd

NOTES:
1. 1993 AND 1995 SOIL BORINGS ARE NOT SHOWN.
2. SEE FIGURES 4 AND 5 FOR SOIL ANALYTICAL DATA

S:\GIS_GPS\Project_Folders\SK_Archdale\2016-02 Report\Figure 6 - Extent of Impacted Soil Map.mxd



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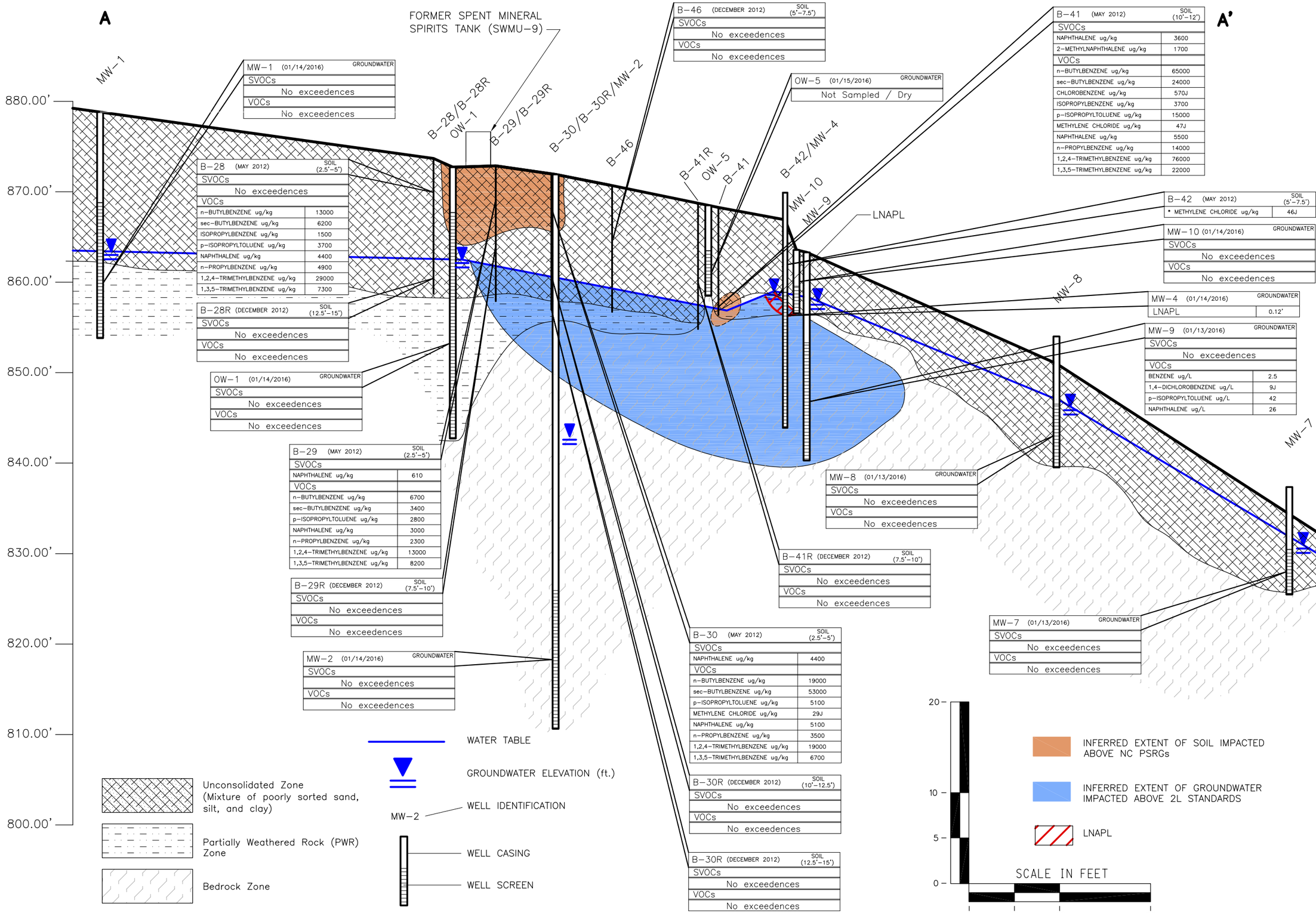
PROJECT NO. SKARCHDAL1
DATE: 3/31/2016
SCALE: 1" = 35'
REV: GO
PREP: RB

TITLE **FIGURE 7**
CROSS-SECTION LOCATION MAP
SAFETY-KLEEN FACILITY
6182 OLD MENDENHALL ROAD
ARCHDALE, RANDOLPH COUNTY, N.C.

MAP FILE: 2013-01_SKA.mxd

NOTES:
1. ONLY BORINGS AND WELLS ALONG TRANSECTS SHOWN FOR CLARITY

S:\GIS_GPS\Project_Folders\SK_Archdale\2016-02 Report\Figure 7 - Geologic Cross Section Transect Map.mxd



NOTES:
1. SOIL COMPOUNDS SHOWN EXCEED NC INACTIVE HAZARDOUS SITES BRANCH PRELIMINARY SOIL REMEDIATION GOALS (PSRG) DATED SEPTEMBER 2015.
2. LNAPL = LIGHT NON AQUEOUS LIQUID.
3. GROUNDWATER COMPOUNDS EXCEED NC 2L STANDARDS.
4. WATER TABLE BASED ON JANUARY 2016 ELEVATIONS FOR WELLS IN THE UNCONSOLIDATED/PWR ZONE.
5. * = METHYLENE CHLORIDE IN B-42 ATTRIBUTED TO LABORATORY CONTAMINATION.

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PROJECT NO.	DATE	SCALE	REV. BY	PREP. BY	TYPE CODE
SKARCHDAL1	08-18-2015	AS SHOWN	GO	AW	

TITLE FIGURE 8
GEOLOGIC CROSS-SECTION A-A'
SAFETY-KLEEN SYSTEMS, INC.
6180 OLD MENDENHALL ROAD.
ARCHDALE, NORTH CAROLINA

CAD FILE 1252897.DWG

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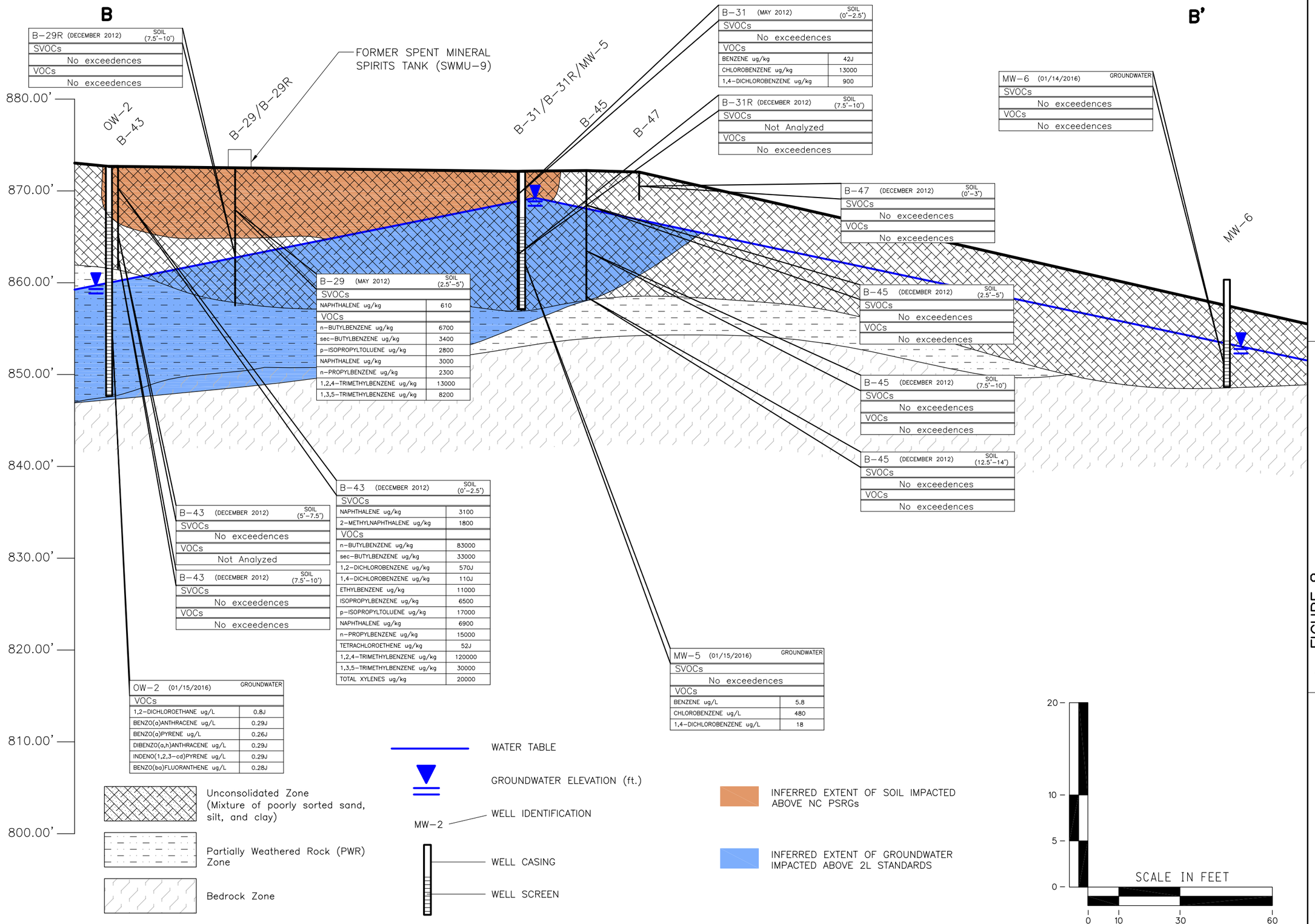

NOTES:
1. SOIL COMPOUNDS SHOWN EXCEED NC INACTIVE HAZARDOUS SITES BRANCH PRELIMINARY SOIL REMEDIATION GOALS (PSRG) DATED SEPTEMBER 2015.
2. GROUNDWATER COMPOUNDS EXCEED NC 2L STANDARDS.
3. WATER TABLE BASED ON JANUARY 2016 ELEVATIONS FOR WELLS IN THE UNCONSOLIDATED/PWR ZONE.

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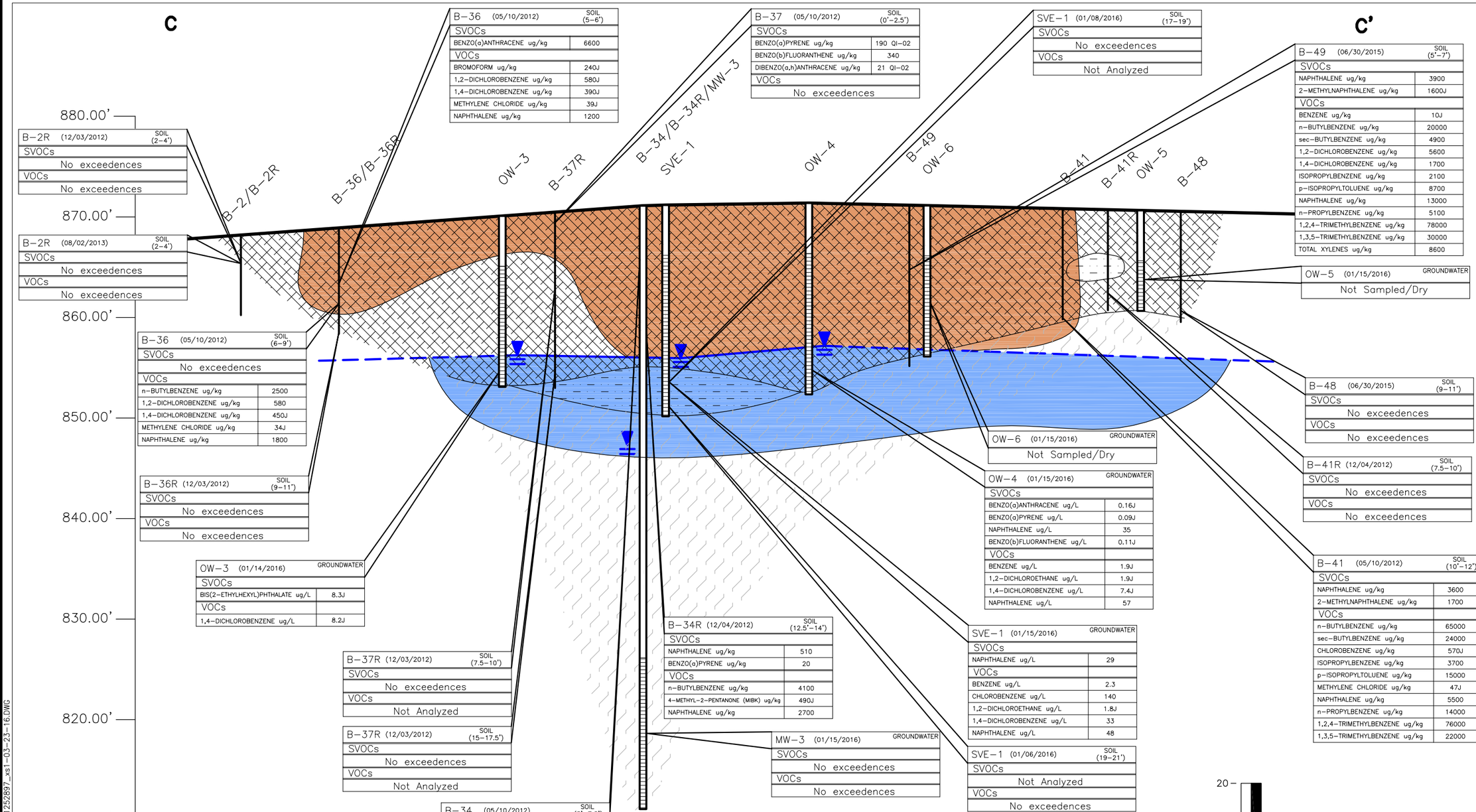
SKARCHDAL1	08-18-2015	AS SHOWN	GO	ED		1252897.DWG

TITLE FIGURE 9
GEOLOGIC CROSS-SECTION B-B'
SAFETY-KLEEN SYSTEMS, INC.
6180 OLD MENDENHALL ROAD.
ARCHDALE, NORTH CAROLINA

03/23/2016 2:21pm - sthompson - H:\125 - ATC__1252897_xs1-03-23-16.DWG



B-2R (12/03/2012)	SOIL (2-4')
SVOCs	
No exceedences	
VOCs	
No exceedences	

B-2R (08/02/2013)	SOIL (2-4')
SVOCs	
No exceedences	
VOCs	
No exceedences	

B-36 (05/10/2012)	SOIL (6-9')
SVOCs	
No exceedences	
VOCs	
n-BUTYLBENZENE ug/kg	2500
1,2-DICHLOROBENZENE ug/kg	580
1,4-DICHLOROBENZENE ug/kg	450J
METHYLENE CHLORIDE ug/kg	34J
NAPHTHALENE ug/kg	1800

B-36R (12/03/2012)	SOIL (9-11')
SVOCs	
No exceedences	
VOCs	
No exceedences	

OW-3 (01/14/2016)	GROUNDWATER
SVOCs	
BIS(2-ETHYLHEXYL)PHTHALATE ug/L	8.3J
VOCs	
1,4-DICHLOROBENZENE ug/L	8.2J

B-37R (12/03/2012)	SOIL (7.5-10')
SVOCs	
No exceedences	
VOCs	
Not Analyzed	

B-37R (12/03/2012)	SOIL (15-17.5')
SVOCs	
No exceedences	
VOCs	
Not Analyzed	

B-34 (05/10/2012)	SOIL (5'-7.5')
SVOCs	
NAPHTHALENE ug/kg	29000
2-METHYLNAPHTHALENE ug/kg	7200
VOCs	
n-BUTYLBENZENE ug/kg	76000
sec-BUTYLBENZENE ug/kg	15000
1,2-DICHLOROBENZENE ug/kg	360J
1,1-DICHLOROETHANE ug/kg	38J
ISOPROPYLBENZENE ug/kg	1500
p-ISOPROPYLTOLUENE ug/kg	14000
METHYLENE CHLORIDE ug/kg	44J
NAPHTHALENE ug/kg	53000
n-PROPYLBENZENE ug/kg	6400
1,2,4-TRIMETHYLBENZENE ug/kg	47000
1,3,5-TRIMETHYLBENZENE ug/kg	16000

B-36 (05/10/2012)	SOIL (5-6')
SVOCs	
BENZO(a)ANTHRACENE ug/kg	6600
VOCs	
BROMOFORM ug/kg	240J
1,2-DICHLOROBENZENE ug/kg	580J
1,4-DICHLOROBENZENE ug/kg	390J
METHYLENE CHLORIDE ug/kg	39J
NAPHTHALENE ug/kg	1200

B-37 (05/10/2012)	SOIL (0'-2.5')
SVOCs	
BENZO(a)PYRENE ug/kg	190 QI-02
BENZO(b)FLUORANTHENE ug/kg	340
DIBENZO(a,h)ANTHRACENE ug/kg	21 QI-02
VOCs	
No exceedences	

B-34R (12/04/2012)	SOIL (12.5'-14')
SVOCs	
NAPHTHALENE ug/kg	510
BENZO(a)PYRENE ug/kg	20
VOCs	
n-BUTYLBENZENE ug/kg	4100
4-METHYL-2-PENTANONE (MIBK) ug/kg	490J
NAPHTHALENE ug/kg	2700

MW-3 (01/15/2016)	GROUNDWATER
SVOCs	
No exceedences	
VOCs	
No exceedences	

SVE-1 (01/08/2016)	SOIL (17-19')
SVOCs	
No exceedences	
VOCs	
Not Analyzed	

OW-4 (01/15/2016)	GROUNDWATER
SVOCs	
BENZO(a)ANTHRACENE ug/L	0.16J
BENZO(a)PYRENE ug/L	0.09J
NAPHTHALENE ug/L	35
BENZO(b)FLUORANTHENE ug/L	0.11J
VOCs	
BENZENE ug/L	1.9J
1,2-DICHLOROETHANE ug/L	1.9J
1,4-DICHLOROBENZENE ug/L	7.4J
NAPHTHALENE ug/L	57

SVE-1 (01/15/2016)	GROUNDWATER
SVOCs	
NAPHTHALENE ug/L	29
VOCs	
BENZENE ug/L	2.3
CHLOROBENZENE ug/L	140
1,2-DICHLOROETHANE ug/L	1.8J
1,4-DICHLOROBENZENE ug/L	33
NAPHTHALENE ug/L	48

SVE-1 (01/06/2016)	SOIL (19-21')
SVOCs	
Not Analyzed	
VOCs	
No exceedences	

B-49 (06/30/2015)	SOIL (5'-7')
SVOCs	
NAPHTHALENE ug/kg	3900
2-METHYLNAPHTHALENE ug/kg	1600J
VOCs	
BENZENE ug/kg	10J
n-BUTYLBENZENE ug/kg	20000
sec-BUTYLBENZENE ug/kg	4900
1,2-DICHLOROBENZENE ug/kg	5600
1,4-DICHLOROBENZENE ug/kg	1700
ISOPROPYLBENZENE ug/kg	2100
p-ISOPROPYLTOLUENE ug/kg	8700
NAPHTHALENE ug/kg	13000
n-PROPYLBENZENE ug/kg	5100
1,2,4-TRIMETHYLBENZENE ug/kg	78000
1,3,5-TRIMETHYLBENZENE ug/kg	30000
TOTAL XYLENES ug/kg	8600

OW-5 (01/15/2016)	GROUNDWATER
Not Sampled/Dry	

OW-6 (01/15/2016)	GROUNDWATER
Not Sampled/Dry	

B-48 (06/30/2015)	SOIL (9-11')
SVOCs	
No exceedences	
VOCs	
No exceedences	

B-41R (12/04/2012)	SOIL (7.5-10')
SVOCs	
No exceedences	
VOCs	
No exceedences	

B-41 (05/10/2012)	SOIL (10'-12')
SVOCs	
NAPHTHALENE ug/kg	3600
2-METHYLNAPHTHALENE ug/kg	1700
VOCs	
n-BUTYLBENZENE ug/kg	65000
sec-BUTYLBENZENE ug/kg	24000
CHLOROBENZENE ug/kg	570J
ISOPROPYLBENZENE ug/kg	3700
p-ISOPROPYLTOLUENE ug/kg	15000
METHYLENE CHLORIDE ug/kg	47J
NAPHTHALENE ug/kg	5500
n-PROPYLBENZENE ug/kg	14000
1,2,4-TRIMETHYLBENZENE ug/kg	76000
1,3,5-TRIMETHYLBENZENE ug/kg	22000

WATER TABLE

GROUNDWATER ELEVATION

MW-2 — WELL IDENTIFICATION

WELL CASING

WELL SCREEN

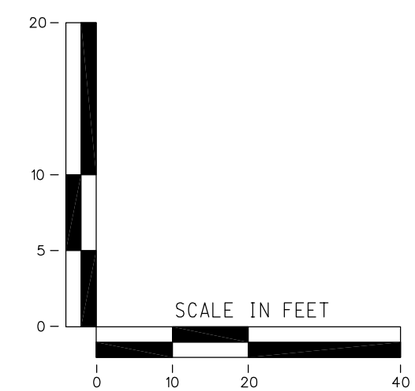
Unconsolidated Zone (Mixture of poorly sorted sand, silt, and clay)

Partially Weathered Rock (PWR) Zone

Bedrock Zone

INFERRED EXTENT OF SOIL IMPACTED ABOVE NC PSRGs

INFERRED EXTENT OF GROUNDWATER IMPACTED ABOVE 2L STANDARDS



NOTES:
1. SOIL COMPOUNDS SHOWN EXCEED NC INACTIVE HAZARDOUS SITES BRANCH PRELIMINARY SOIL REMEDIATION GOALS (PSRG) DATED SEPTEMBER 2015.
2. LNAPL = LIGHT NON AQUEOUS LIQUID.
3. GROUNDWATER COMPOUNDS EXCEED NC 2L STANDARDS.

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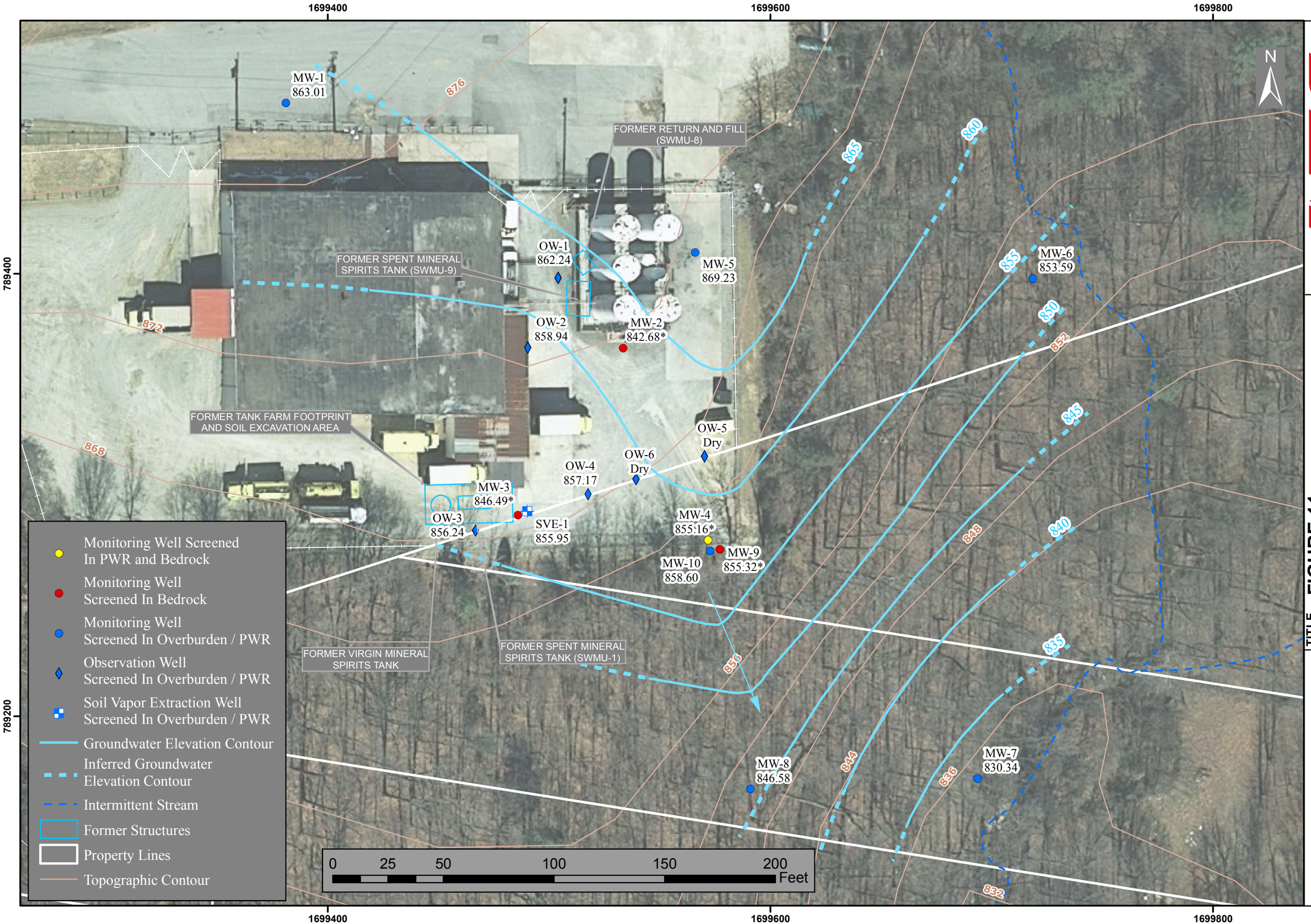
SKARCHDAL1	08-18-2015	AS SHOWN	GO	AW	

TITLE FIGURE 10
GEOLOGIC CROSS-SECTION C-C'
SAFETY-KLEEN SYSTEMS, INC.
6180 OLD MENDENHALL ROAD.
ARCHDALE, NORTH CAROLINA

CAD FILE 1252897.DWG

03/23/2016 2:14pm - sthompson - H:\125 - ATC___1252897_xs1-03-23-16.DWG



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PROJECT NO.	SKARCHDAL1
DATE:	3/31/2016
SCALE:	1" = 40'
REV:	GO
PREP:	RB

TITLE **FIGURE 11**

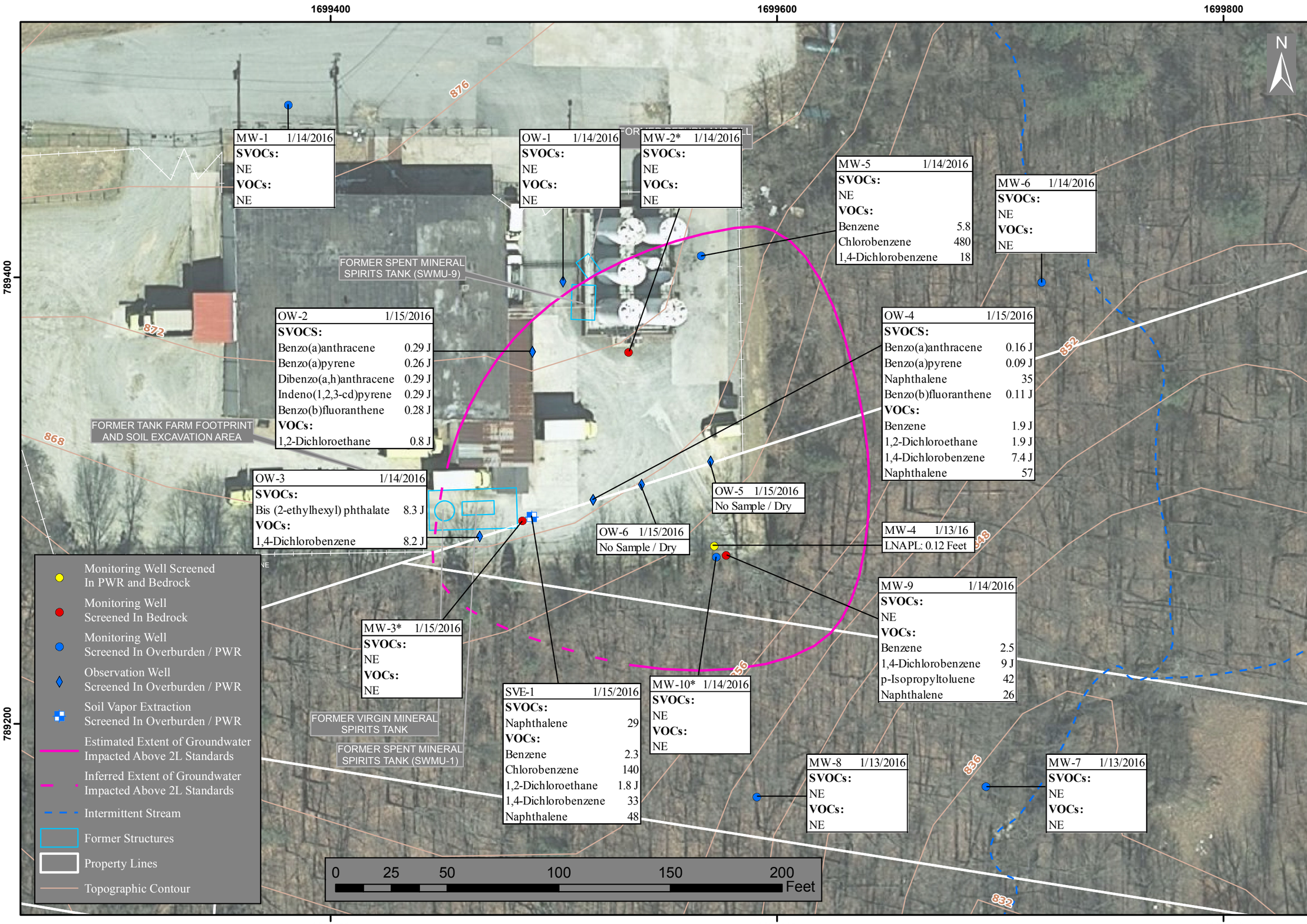
GROUNDWATER ELEVATION CONTOUR MAP
SAFETY-KLEEN FACILITY
6182 OLD MENDENHALL ROAD
ARCHDALE, RANDOLPH COUNTY, N.C.

MAP FILE:

NOTES:

1. TOPOGRAHPIC CONTOUR INTERVAL = 4'.
2. GROUNDWATER ELEVATION CONTOUR INTERVAL = 5'
3. WELLS SCREENED IN PWR OR BEDROCK NOT USED TO CONSTRUCT CONTOURS.
4. * = ELEVATIONS NOT USED TO CONSTRUCT CONTOURS

Path: S:\GIS_GPS\Project_Folders\SK_Archdale\2016-02 Report\New_Better_Mxds\Figure 11 - Groundwater Elevation Contour Map SK Archdale.mxd



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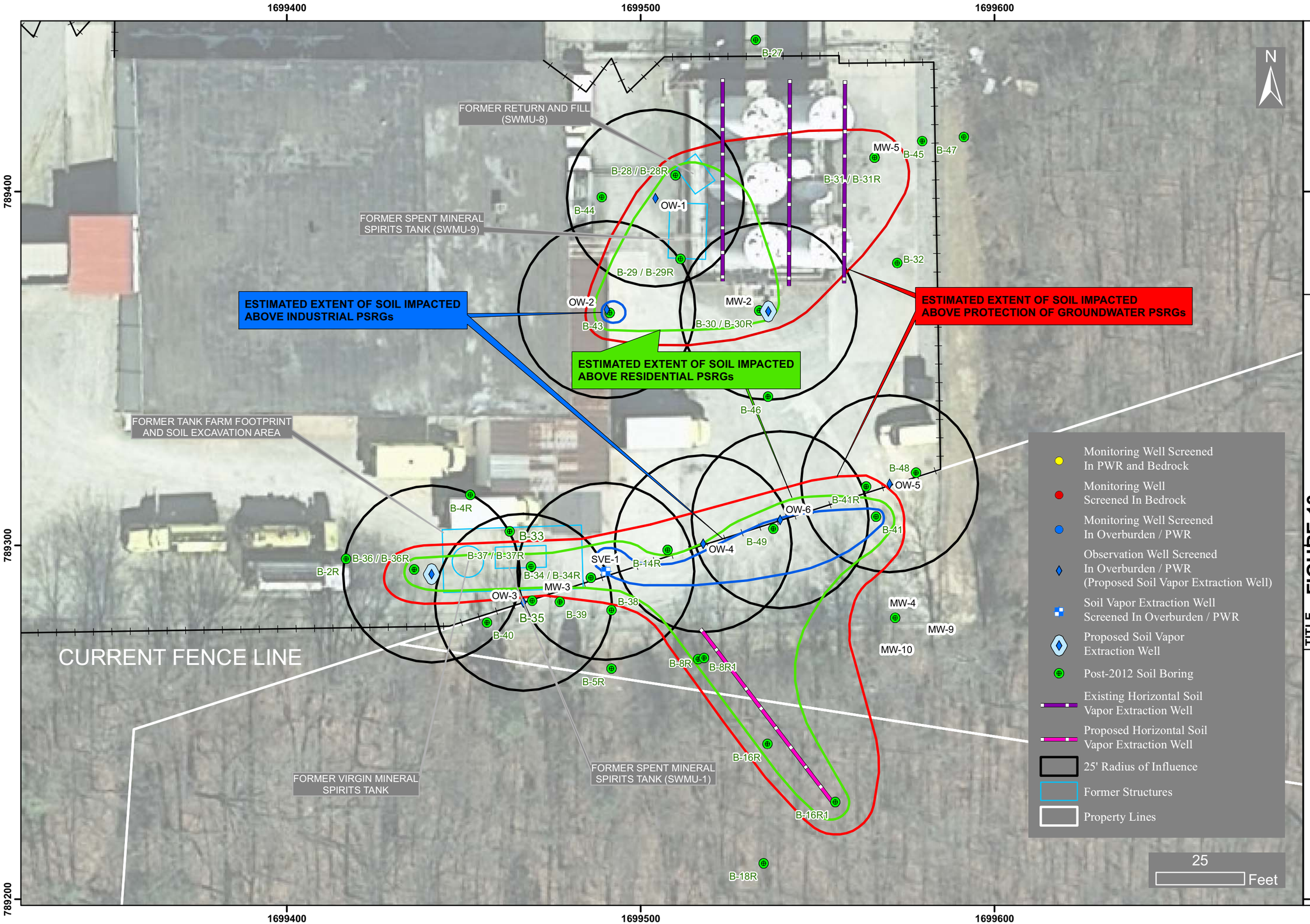
PROJECT NO. SKARCHDAL1
DATE: 3/31/2016
SCALE: 1" = 40'
REV: GO
PREP: RB

TITLE **FIGURE 12**
GROUNDWATER ANALYTICAL DATA MAP
SAFETY-KLEEN FACILITY
6182 OLD MENDENHALL ROAD
ARCHDALE, RANDOLPH COUNTY, N.C.

MAP FILE:

NOTES:
1. TOPOGRAHPIC CONTOUR INTERVAL = 4'.
2. CONTOUR IS BASED ONMAXIMUM CONTAMINANT AT ANY DEPTH
3. CONCENTRATIONS SHOWN IN MICROGRAMS PER LITER
4. SVOCs = SEMIVOLATILE ORGANIC COMPOUNDS
5. VOCs = VOLATILE ORGANIC COMPOUNDS
6. NE = NO EXCEEDANCES OF NC 2L STANDARDS
7. ONLY COMPOUNDS DETECTED ABOVE NC 2L STANDARDS ARE SHOWN
8. * = WELL NOT USED IN CONTOURING.

S:\GIS_GPS\Project_Folders\SK_Archdale\2016-02 Report\Figure 12 - Groundwater Analytical Data Map.mxd
Coordinate System: NAD 1983 StatePlane North Carolina FIPS 3200 Feet



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PROJECT NO. SKARCHDAL1
DATE: 3/16/2016
SCALE: 1" = 25'
REV: GO
PREP: RB
MAP FILE: 2013-01_SKA.mxd

TITLE **FIGURE 13**
SVE WELL LAYOUT
SAFETY-KLEEN FACILITY
6182 OLD MENDENHALL ROAD
ARCHDALE, RANDOLPH COUNTY, N.C.

NOTES:
1. 1993 AND 1995 SOIL BORINGS ARE NOT SHOWN.
2. SEE FIGURES 4 AND 5 FOR SOIL ANALYTICAL DATA

S:\GIS_GPS\Project_Folders\SK_Archdale\2016-02 Report\Figure 13 - SVE Well Layout Map w Impacted Soil.mxd

APPENDIX A

SOIL BORING LOGS AND WELL CONSTRUCTION RECORDS

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MONITORING WELL: MW-9

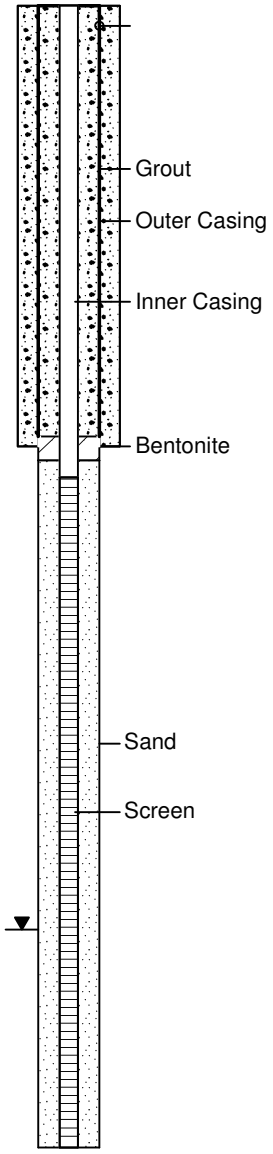
Safety-Kleen Service Center
6182 Old Mendenhall Road
Archdale, North Carolina
ATC Project No. 45.16031.0010

Client: Safety-Kleen

Date(s) Drilled	: 1/4/2016 - 1/5/2016	Boring Diameter	: 6 inches
Drilling Contractor	: Geologic Exploration	Sampling Method	: Soil Cuttings
Drilling Method	: HSA/ Air	Sampling Interval	: Continuous
		Logged By	: RJB

Well: MW-9
Elevation: 863.30

Depth In Feet	USCS	GRAPHIC	DESCRIPTION
0–2	CL		Grey SANDY CLAY
2–6	CL		Orange SILTY CLAY
6–7	CL		Brown SILTY CLAY
7–24	GR		Refusal at BEDROCK, switched to air rig to advance for an additional 16.85'. Lithology not recorded form 7'- 23.85'.
24			End of boring.



Refusal was met with HSA at 7' bgs.
Switched to air rig and drilled from 7'- 23.85' bgs.
Bottom of well was set at 23.85' bgs.
Depth to water was measured on 1-6-2016.
bgs = below ground surface.

Well is 2 inches in diameter.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

JOHNNY BURR

Well Contractor Name

A - 3098

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

- ☐Agricultural
- ☐Municipal/Public
- ☐Geothermal (Heating/Cooling Supply)
- ☐Residential Water Supply (single)
- ☐Industrial/Commercial
- ☐Residential Water Supply (shared)
- ☐Irrigation

Non-Water Supply Well:

- ☑Monitoring
- ☐Recovery

Injection Well:

- ☐Aquifer Recharge
- ☐Groundwater Remediation
- ☐Aquifer Storage and Recovery
- ☐Salinity Barrier
- ☐Aquifer Test
- ☐Stormwater Drainage
- ☐Experimental Technology
- ☐Subsidence Control
- ☐Geothermal (Closed Loop)
- ☐Tracer
- ☐Geothermal (Heating/Cooling Return)
- ☐Other (explain under #21 Remarks)

4. Date Well(s) Completed: 01/05/16 **Well ID#** MW-9

5a. Well Location:

SAFETY KLEEN

Facility/Owner Name

Facility ID# (if applicable)

6182 OLD MENDENHALL ROAD ARCHDALE 27263

Physical Address, City, and Zip

RANDOLPH

County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

35° 54' 50.15" N 80° 00' 51.12" W

6. Is (are) the well(s): ☑**Permanent** or ☐**Temporary**

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1

For multiple injection or non-water supply wells ONLY with the same construction, you can submit one form.

9. Total well depth below land surface: 23.5 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: DRY **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 12.0/6.0/8.5 **(in.)**

12. Well construction method: AUGER/AIR ROTARY

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	9.0 ft.	6.0 in.	SCH 40	PVC

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	11.0 ft.	2.0 in.	SCH 40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
11.0 ft.	23.5 ft.	2.0 in.	.010	SCH 40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	8.0 ft.	PORTLAND BENTONITE	SLURRY
0.0 ft.	9.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
10.0 ft.	23.5 ft.	20-40	FINE SILICA SAND
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	2.0 ft.	GRAY SANDY CLAY
2.0 ft.	6.0 ft.	ORANGE SILTY CLAY
6.0 ft.	7.0 ft.	BROWN SILTY CLAY
7.0 ft.	23.5 ft.	GRAY ROCK
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 8.0 TO 10.0 FEET

22. Certification:

Johnny Burr

Signature of Certified Well Contractor

01/20/16

Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

SUBMITTAL INSTUCTIONS

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Quality, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Quality, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

ENVIRONMENTAL • GEOTECHNICAL
BUILDING SCIENCES • MATERIALS TESTING

MONITORING WELL: MW-10

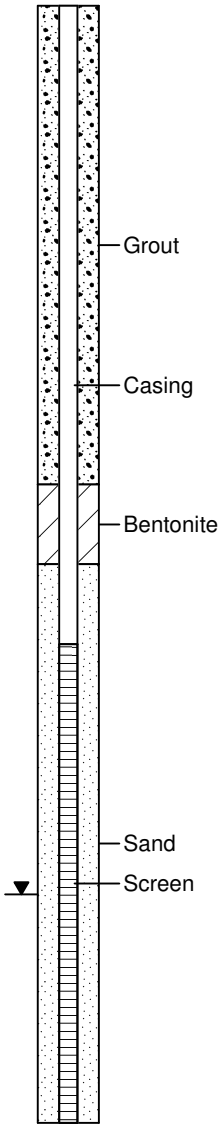
Safety-Kleen Service Center
6182 Old Mendenhall Road
Archdale, North Carolina
ATC Project No. 45.16031.0010

Client: Safety-Kleen

Date(s) Drilled	: 1/5/2016	Boring Diameter	: 6 inches
Drilling Contractor	: Geologic Exploration	Sampling Method	: Soil Cuttings
Drilling Method	: HSA	Sampling Interval	: Continuous
		Logged By	: RJB

Depth In Feet	USCS	GRAPHIC	DESCRIPTION
0			Grey SANDY CLAY
1	CL		
2			Orange SILTY CLAY
3			
4	CL		
5			
6			Brown SILTY CLAY
7	CL		Refusal at BEDROCK.

Well: MW-10
Elevation: 863.58



Refusal at 7' bgs.
Bottom of well was set at 7' bgs.
Depth to water was measured on 1/6/2016.
bgs = below ground surface.
Well is 4 inches in diameter

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

JOHNNY BURR

Well Contractor Name

A - 3098

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:

- ☑ Monitoring
- ☐ Recovery

Injection Well:

- ☐ Aquifer Recharge
- ☐ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ☐ Other (explain under #21 Remarks)

4. Date Well(s) Completed: 01/05/16 **Well ID#** MW-10

5a. Well Location:

SAFETY KLEEN

Facility/Owner Name

Facility ID# (if applicable)

6182 OLD MENDENHALL ROAD ARCHDALE 27263

Physical Address, City, and Zip

RANDOLPH

County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

35° 54' 50.15" N 80° 00' 51.12" W

6. Is (are) the well(s): ☑ **Permanent** or ☐ **Temporary**

7. Is this a repair to an existing well: ☐ **Yes** or ☑ **No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1

For multiple injection or non-water supply wells ONLY with the same construction, you can submit one form.

9. Total well depth below land surface: 7.0 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 6.0 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 12.0 **(in.)**

12. Well construction method: AUGER

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	4.0 ft.	4.0 in.	SCH 40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
4.0 ft.	7.0 ft.	4.0 in.	.010	SCH 40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	3.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
3.5 ft.	7.0 ft.	20-40	FINE SILICA SAND
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	2.0 ft.	GRAY SANDY CLAY
2.0 ft.	6.0 ft.	ORANGE SILTY CLAY
6.0 ft.	7.0 ft.	BROWN SILTY CLAY
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 3.0 TO 3.5 FEET

22. Certification:

Johnny Burr

Signature of Certified Well Contractor

01/20/16

Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

SUBMITTAL INSTUCTIONS

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Quality, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Quality, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

ENVIRONMENTAL • GEOTECHNICAL
BUILDING SCIENCES • MATERIALS TESTING

SOIL VAPOR EXTRACTION: SVE-1

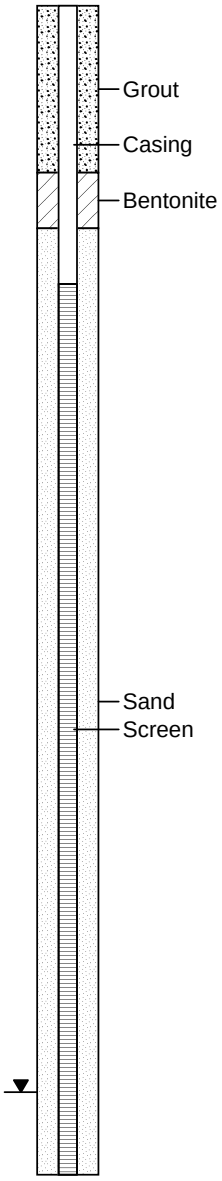
Safety-Kleen Service Center
6182 Old Mendenhall Road
Archdale, North Carolina
ATC Project No. 45.16031.0010

Client: Safety-Kleen

Date(s) Drilled	: 1/6/2016	Boring Diameter	: 6 inches
Drilling Contractor	: Geologic Exploration	Sampling Method	: Split Spoons
Drilling Method	: HSA / Split Spoons	Sampling Interval	: Continuous
		Logged By	: RJB

Well: SVE-1
Elevation: 871.17

Depth In Feet	USCS	GRAPHIC	DESCRIPTION	PID (ppm)
0–3	GW		Grey CLAYEY GRAVEL	
3–6	CL		Rocky grey-brown SANDY CLAY	
6–11	CL		Dry orange-brown SANDY CLAY	
11–14	CL		Dry grey-brown SANDY CLAY	
14–16	SC		Green fine to coarse grained SILTY SAND	209
16–21	CL		Light brown SILTY CLAY with rock fragments	57.3 70.5
21			Refusal at BEDROCK	



Refusal at 25' bgs.
Bottom of well was set at 25' bgs.
Water level was measured on 1/6/2016.
bgs = below ground surface.
Well is 4 Inches in diameter.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

JOHNNY BURR

Well Contractor Name

A - 3098

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:

- ☐ Monitoring
- ☐ Recovery

Injection Well:

- ☐ Aquifer Recharge
- ☐ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ☑ Other (explain under #21 Remarks)

4. Date Well(s) Completed: 01/06/16 **Well ID#** SVE-1

5a. Well Location:

SAFETY KLEEN

Facility/Owner Name

Facility ID# (if applicable)

6182 OLD MENDENHALL ROAD ARCHDALE 27263

Physical Address, City, and Zip

RANDOLPH

County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

35° 54' 50.15" N 80° 00' 51.12" W

6. Is (are) the well(s): ☑ **Permanent** or ☐ **Temporary**

7. Is this a repair to an existing well: ☐ **Yes** or ☑ **No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1

*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 21.0 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 19.0 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 10.0 **(in.)**

12. Well construction method: AUGER

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	5.0 ft.	4.0 in.	SCH 40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
5.0 ft.	21.0 ft.	4.0 in.	.010	SCH 40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	3.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
4.0 ft.	21.0 ft.	20-40	FINE SILICA SAND
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	3.5 ft.	GRAY GRAVEL
3.5 ft.	6.0 ft.	GRAY/BROWN ROCKY SANDY CLAY
6.0 ft.	11.0 ft.	ORANGE/BROWN SANDY CLAY
11.0 ft.	21.0 ft.	GRAY/BROWN SANDY CLAY
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 3.0 TO 4.0 FEET

SOIL VAPOR EXTRACTION

22. Certification:

Johnny Burr — 01/20/16

Signature of Certified Well Contractor — Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

SUBMITTAL INSTUCTIONS

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Quality, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Quality, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

ENVIRONMENTAL • GEOTECHNICAL
BUILDING SCIENCES • MATERIALS TESTING

OBSERVATION WELL: OW-1

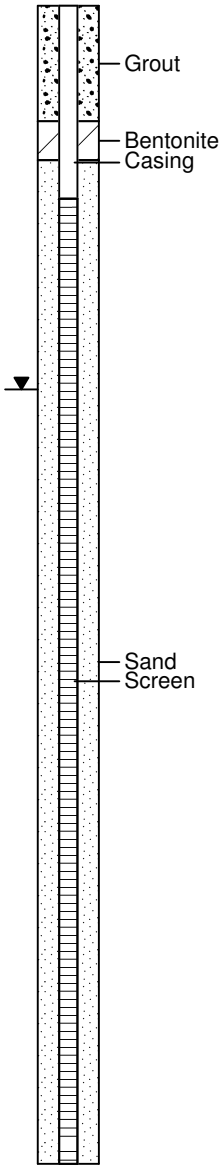
Safety-Kleen Service Center
6182 Old Mendenhall Road
Archdale, North Carolina
ATC Project No. 45.16031.0010

Client: Safety-Kleen

Date(s) Drilled	: 1/7/2016	Boring Diameter	: 6 inches
Drilling Contractor	: Geologic Exploration	Sampling Method	: Soil Cuttings
Drilling Method	: HSA	Sampling Interval	: Continuous
		Logged By	: RJB

Depth In Feet	USCS	GRAPHIC	DESCRIPTION
0	GW		Grey CLAYEY GRAVEL
2	CL		Grey-brown SANDY CLAY with traces of gravel
4	CL		Brown-orange SILTY CLAY
6	CL		Greenish-grey SANDY CLAY
8			
10			
12	CL		Brown-orange SILTY CLAY
14			
16			
18			
20			
22			
24			
26			
28			
30			Refusal at BEDROCK

Well: OW-1
Elevation: 872.72



Refusal at 30' bgs.
Bottom of well was set at 30' bgs.
Water level was measured on 1/8/2016.
bgs = below ground surface.
Well is 4 Inches in diameter.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

JOHNNY BURR

Well Contractor Name

A - 3098

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:

- ☐ Monitoring
- ☑ Recovery

Injection Well:

- ☐ Aquifer Recharge
- ☐ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ☐ Other (explain under #21 Remarks)

4. Date Well(s) Completed: 01/07/16 **Well ID#** OW-1

5a. Well Location:

SAFETY KLEEN

Facility/Owner Name

Facility ID# (if applicable)

6182 OLD MENDENHALL ROAD ARCHDALE 27263

Physical Address, City, and Zip

RANDOLPH

County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

35° 54' 50.15" N 80° 00' 51.12" W

6. Is (are) the well(s): ☑ **Permanent** or ☐ **Temporary**

7. Is this a repair to an existing well: ☐ **Yes** or ☑ **No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1

For multiple injection or non-water supply wells ONLY with the same construction, you can submit one form.

9. Total well depth below land surface: 30.0 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 19.0 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 10.0 **(in.)**

12. Well construction method: AUGER

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	5.0 ft.	4.0 in.	SCH 40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
5.0 ft.	30.0 ft.	4.0 in.	.020	SCH 40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	3.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
4.0 ft.	30.0 ft.	20-40	FINE SILICA SAND
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	3.5 ft.	GRAVEL
3.5 ft.	6.0 ft.	ORANGE SANDY CLAY
6.0 ft.	30.0 ft.	BROWN SANDY ROCKY CLAY
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 3.0 TO 4.0 FEET

22. Certification:

Johnny Burr 01/20/16

Signature of Certified Well Contractor — Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

SUBMITTAL INSTUCTIONS

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Quality, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Quality, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

ENVIRONMENTAL • GEOTECHNICAL
BUILDING SCIENCES • MATERIALS TESTING

OBSERVATION WELL: OW-2

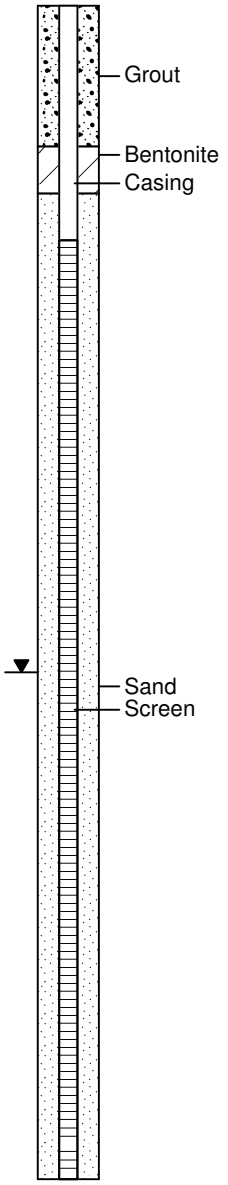
Safety-Kleen Service Center
6182 Old Mendenhall Road
Archdale, North Carolina
ATC Project No. 45.16031.0010

Client: Safety-Kleen

Date(s) Drilled	: 1/6/2016	Boring Diameter	: 6 inches
Drilling Contractor	: Geologic Exploration	Sampling Method	: Soil Cuttings
Drilling Method	: HSA	Sampling Interval	: Continuous
		Logged By	: RJB

Well: OW-2
Elevation: 872.66

Depth In Feet	USCS	GRAPHIC	DESCRIPTION
0–1	GW		Grey CLAYEY GRAVEL
1–2			
2–3	CL		Grey-brown SANDY CLAY with traces of gravel and concrete
3–4	CL		Greenish-grey SANDY CLAY, odor
4–5	CL		Greyish-brown SANDY CLAY
5–12	CL		Orange-brown SANDY CLAY
12–25	CL		Grey-brown SANDY CLAY
25			Refusal at BEDROCK



Refusal at 25' bgs.
Bottom of well was set at 25' bgs.
Water level was measured on 1/6/2016.
bgs = below ground surface.
Well is 4 Inches in diameter.

01-29-2016 S:\Enviro\Safety-Kleen\North Carolina\Archdale, NC\Boring Logs\2016-01 Boring Logs\OW-2.bor

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

JOHNNY BURR

Well Contractor Name

A - 3098

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:

- ☐ Monitoring
- ☑ Recovery

Injection Well:

- ☐ Aquifer Recharge
- ☐ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ☐ Other (explain under #21 Remarks)

4. Date Well(s) Completed: 01/06/16 **Well ID#** OW-2

5a. Well Location:

SAFETY KLEEN

Facility/Owner Name

Facility ID# (if applicable)

6182 OLD MENDENHALL ROAD ARCHDALE 27263

Physical Address, City, and Zip

RANDOLPH

County

Parcel Identification No (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

35° 54' 50.15" N 80° 00' 51.12" W

6. Is (are) the well(s): ☑ **Permanent** or ☐ **Temporary**

7. Is this a repair to an existing well: ☐ **Yes** or ☑ **No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1

For multiple injection or non-water supply wells ONLY with the same construction, you can submit one form.

9. Total well depth below land surface: 25.0 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 19.0 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 10.0 **(in.)**

12. Well construction method: AUGER

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	5.0 ft.	4.0 in.	SCH 40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
5.0 ft.	25.0 ft.	4.0 in.	.020	SCH 40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	3.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
4.0 ft.	25.0 ft.	20-40	FINE SILICA SAND
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	3.0 ft.	CONCRETE/GRAVEL
3.0 ft.	5.0 ft.	GREEN/GRAY CLAY
5.0 ft.	25.0 ft.	GRAY/BROWN SANDY CLAY
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 3.0 TO 4.0 FEET

22. Certification:

Johnny Burr 01/20/16

Signature of Certified Well Contractor — Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

SUBMITTAL INSTUCTIONS

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Quality, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Quality, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

ENVIRONMENTAL • GEOTECHNICAL
BUILDING SCIENCES • MATERIALS TESTING

OBSERVATION WELL: OW-3

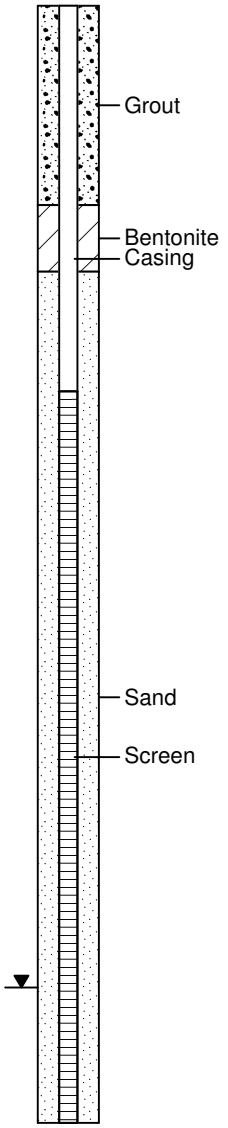
Safety-Kleen Service Center
6182 Old Mendenhall Road
Archdale, North Carolina
ATC Project No. 45.16031.0010

Client: Safety-Kleen

Date(s) Drilled	: 1/5/2016	Boring Diameter	: 6 inches
Drilling Contractor	: Geologic Exploration	Sampling Method	: Soil Cuttings
Drilling Method	: HSA	Sampling Interval	: Continuous
		Logged By	: RJB

Well: OW-3
Elevation: 870.09

Depth In Feet	USCS	GRAPHIC	DESCRIPTION
0–1	GW		Grey-brown CLAYEY GRAVEL
1–4	CL		Grey-brown SILTY CLAY
4–5	CL		Grey-orange brown SILTY CLAY
5–10	CL		Grey-brown SANDY CLAY
10–17	CL		Greyish-green SANDY CLAY, strong petroleum odor
17			Refusal at BEDROCK



Refusal at 16.8' bgs.
Bottom of well was set at 16.8' bgs.
Water level was measured on 1/8/2016.
bgs = below ground surface.
Well is 4 Inches in diameter.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

JOHNNY BURR

Well Contractor Name

A - 3098

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:

- ☐ Monitoring
- ☑ Recovery

Injection Well:

- ☐ Aquifer Recharge
- ☐ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ☐ Other (explain under #21 Remarks)

4. Date Well(s) Completed: 01/07/16 **Well ID#** OW-3

5a. Well Location:

SAFETY KLEEN

Facility/Owner Name

Facility ID# (if applicable)

6182 OLD MENDENHALL ROAD ARCHDALE 27263

Physical Address, City, and Zip

RANDOLPH

County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

35° 54' 50.15" N 80° 00' 51.12" W

6. Is (are) the well(s): ☑ **Permanent** or ☐ **Temporary**

7. Is this a repair to an existing well: ☐ **Yes** or ☑ **No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1

For multiple injection or non-water supply wells ONLY with the same construction, you can submit one form.

9. Total well depth below land surface: 17.0 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: DRY **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 10.0 **(in.)**

12. Well construction method: AUGER

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	5.0 ft.	4.0 in.	SCH 40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
5.0 ft.	17.0 ft.	4.0 in.	.020	SCH 40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	3.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
4.0 ft.	17.0 ft.	20-40	FINE SILICA SAND
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	3.0 ft.	GRAVEL
3.0 ft.	10.0 ft.	TAN SANDY CLAY
10.0 ft.	17.0 ft.	ORANGE SANDY CLAY
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 3.0 TO 4.0 FEET

22. Certification:

Johnny Burr 01/20/16

Signature of Certified Well Contractor — Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

SUBMITTAL INSTUCTIONS

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Quality, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Quality, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

ENVIRONMENTAL • GEOTECHNICAL
BUILDING SCIENCES • MATERIALS TESTING

OBSERVATION WELL: OW-4

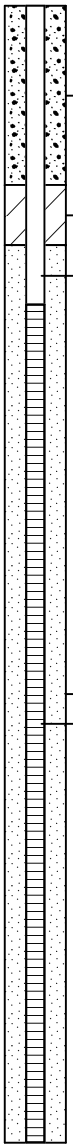
Safety-Kleen Service Center
6182 Old Mendenhall Road
Archdale, North Carolina
ATC Project No. 45.16031.0010

Client: Safety-Kleen

Date(s) Drilled	: 1/5/2016	Boring Diameter	: 4 inches
Drilling Contractor	: Geologic Exploration	Sampling Method	: Soil Cuttings
Drilling Method	: HSA	Sampling Interval	: Continuous
		Logged By	: RJB

Well: OW-4
Elevation: 871.38

Depth In Feet	USCS	DESCRIPTION
0–3	GW	Grey CLAYEY GRAVEL
3–6	CL	Greenish grey SANDY CLAY
6–8	CL	Grey-brown SANDY CLAY
8–19	CL	Brown SILTY CLAY
19		Refusal at BEDROCK



Refusal at 19' bgs.
Bottom of well was set at 19' bgs.
OW-4 was dry from 1/5/2016 to 1/8/2016.
bgs = below ground surface.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

JOHNNY BURR

Well Contractor Name

A - 3098

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:

- ☐ Monitoring
- ☑ Recovery

Injection Well:

- ☐ Aquifer Recharge
- ☐ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ☐ Other (explain under #21 Remarks)

4. Date Well(s) Completed: 01/06/16 **Well ID#** OW-4

5a. Well Location:

SAFETY KLEEN

Facility/Owner Name

Facility ID# (if applicable)

6182 OLD MENDENHALL ROAD ARCHDALE 27263

Physical Address, City, and Zip

RANDOLPH

County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

35° 54' 50.15" N 80° 00' 51.12" W

6. Is (are) the well(s): ☑ **Permanent** or ☐ **Temporary**

7. Is this a repair to an existing well: ☐ **Yes** or ☑ **No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1

For multiple injection or non-water supply wells ONLY with the same construction, you can submit one form.

9. Total well depth below land surface: 19.0 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: DRY **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 12.0 **(in.)**

12. Well construction method: AUGER

(i.e. auger, rotary, cable, direct push, etc)

FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	5.0 ft.	4.0 in.	SCH 40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
5.0 ft.	19.0 ft.	4.0 in.	.020	SCH 40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	3.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
4.0 ft.	19.0 ft.	20-40	FINE SILICA SAND
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	3.0 ft.	GRAVEL
3.0 ft.	6.0 ft.	GREEN CLAYEY SILT
6.0 ft.	8.0 ft.	GREEN SANDY CLAY
8.0 ft.	19.0 ft.	BROWN SILTY CLAY
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 3.0 TO 4.0 FEET

22. Certification:

Johnny Burr

Signature of Certified Well Contractor

01/20/16

Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

SUBMITTAL INSTUCTIONS

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Quality, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Quality, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

ENVIRONMENTAL • GEOTECHNICAL
BUILDING SCIENCES • MATERIALS TESTING

OBSERVATION WELL: OW-5

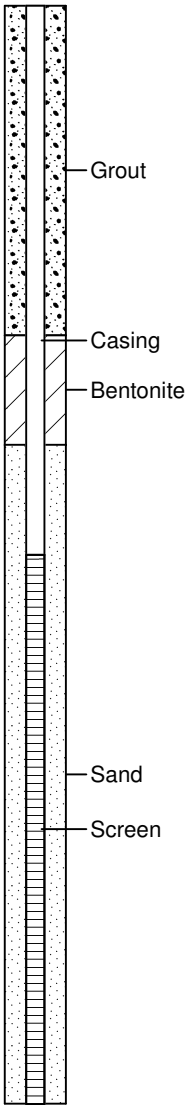
Safety-Kleen Service Center
6182 Old Mendenhall Road
Archdale, North Carolina
ATC Project No. 45.16031.0010

Client: Safety-Kleen

Date(s) Drilled	: 1/8/2016	Boring Diameter	: 6 inches
Drilling Contractor	: Geologic Exploration	Sampling Method	: Soil Cuttings
Drilling Method	: HSA	Sampling Interval	: Continuous
		Logged By	: RJB

Depth In Feet	USCS	GRAPHIC	DESCRIPTION
0	GW		Grey CLAYEY GRAVEL
1	CL		Orange-brown SANDY CLAY
2			
3			
4	CL		Brown-grey SANDY CLAY with gravel
5			
6			
7	CL		Grey-brown SILTY CLAY
8			
9			
10			Refusal at BEDROCK

Well: OW-5
Elevation: 870.64



Refusal at 10' bgs.
Bottom of well was set at 10' bgs.
OW-5 was dry on 1/8/2016.
bgs = below ground surface.
Well is 4 Inches in diameter.

01-29-2016 S:\Enviro\Safety-Kleen\North Carolina\Archdale, NC\Boring Logs\2016-01 Boring Logs\OW-5.bor

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

JOHNNY BURR

Well Contractor Name

A - 3098

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

- ☐Agricultural
- ☐Municipal/Public
- ☐Geothermal (Heating/Cooling Supply)
- ☐Residential Water Supply (single)
- ☐Industrial/Commercial
- ☐Residential Water Supply (shared)
- ☐Irrigation

Non-Water Supply Well:

- ☐Monitoring
- ☑Recovery

Injection Well:

- ☐Aquifer Recharge
- ☐Groundwater Remediation
- ☐Aquifer Storage and Recovery
- ☐Salinity Barrier
- ☐Aquifer Test
- ☐Stormwater Drainage
- ☐Experimental Technology
- ☐Subsidence Control
- ☐Geothermal (Closed Loop)
- ☐Tracer
- ☐Geothermal (Heating/Cooling Return)
- ☐Other (explain under #21 Remarks)

4. Date Well(s) Completed: 01/08/16 **Well ID#** OW-5

5a. Well Location:

SAFETY KLEEN

Facility/Owner Name

Facility ID# (if applicable)

6182 OLD MENDENHALL ROAD ARCHDALE 27263

Physical Address, City, and Zip

RANDOLPH

County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

35° 54' 50.15" N 80° 00' 51.12" W

6. Is (are) the well(s): ☑**Permanent** or ☐**Temporary**

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1

*For multiple injection or non-water supply wells **ONLY** with the same construction, you can submit one form.*

9. Total well depth below land surface: 10.0 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: DRY **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 10.0 **(in.)**

12. Well construction method: AUGER

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	5.0 ft.	4.0 in.	SCH 40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
5.0 ft.	10.0 ft.	4.0 in.	.020	SCH 40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	3.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
4.0 ft.	10.0 ft.	20-40	FINE SILICA SAND
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	0.5 ft.	GRAVEL
0.5 ft.	4.0 ft.	TAN SILTY CLAY
4.0 ft.	10.0 ft.	GRAY PWR
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 3.0 TO 4.0 FEET

22. Certification:

Johnny Burr

Signature of Certified Well Contractor

01/20/16

Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

SUBMITTAL INSTUCTIONS

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Quality, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Quality, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

ENVIRONMENTAL • GEOTECHNICAL
BUILDING SCIENCES • MATERIALS TESTING

OBSERVATION WELL: OW-6

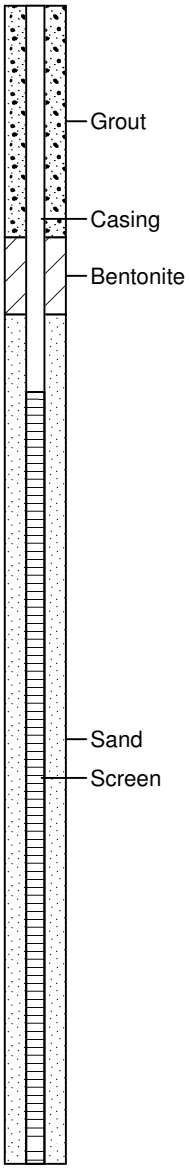
Safety-Kleen Service Center
6182 Old Mendenhall Road
Archdale, North Carolina
ATC Project No. 45.16031.0010

Client: Safety-Kleen

Date(s) Drilled	: 1/7/2016	Boring Diameter	: 6 inches
Drilling Contractor	: Geologic Exploration	Sampling Method	: Soil Cuttings
Drilling Method	: HSA	Sampling Interval	: Continuous
		Logged By	: RJB

Well: OW-6
Elevation: 871.12

Depth In Feet	USCS	GRAPHIC	DESCRIPTION
0	GW		Grey-brown CLAYEY GRAVEL
3	CL		Orange-brown SANDY CLAY
4	CL		Brown-grey SILTY CLAY with gravel
7	CL		Grey-brown SILTY CLAY
15			Refusal at BEDROCK



Refusal at 15' bgs.
Bottom of well was set at 15' bgs.
OW-6 was dry from 1/7/2016 to 1/8/2016.
bgs = below ground surface.
Well is 4 Inches in diameter.

01-29-2016 S:\Enviro\Safety-Kleen\North Carolina\Archdale, NC\Boring Logs\2016-01 Boring Logs\OW-6.bor

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

JOHNNY BURR

Well Contractor Name

A - 3098

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:

- ☐ Monitoring
- ☑ Recovery

Injection Well:

- ☐ Aquifer Recharge
- ☐ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ☐ Other (explain under #21 Remarks)

4. Date Well(s) Completed: 01/07/16 **Well ID#** OW-6

5a. Well Location:

SAFETY KLEEN

Facility/Owner Name

Facility ID# (if applicable)

6182 OLD MENDENHALL ROAD ARCHDALE 27263

Physical Address, City, and Zip

RANDOLPH

County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

35° 54' 50.15" N 80° 00' 51.12" W

6. Is (are) the well(s): ☑ **Permanent** or ☐ **Temporary**

7. Is this a repair to an existing well: ☐ **Yes** or ☑ **No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1

*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 15.0 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: DRY **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 10.0 **(in.)**

12. Well construction method: AUGER

(i.e. auger, rotary, cable, direct push, etc)

FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	5.0 ft.	4.0 in.	SCH 40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
5.0 ft.	15.0 ft.	4.0 in.	.020	SCH 40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	3.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
4.0 ft.	15.0 ft.	20-40	FINE SILICA SAND
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	2.5 ft.	GRAVEL
2.5 ft.	6.0 ft.	TAN SILTY CLAY
6.0 ft.	15.0 ft.	BROWN SILTY SANDY CLAY
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 3.0 TO 4.0 FEET

22. Certification:

Johnny Burr

Signature of Certified Well Contractor

01/20/16

Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:

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Division of Water Quality, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

APPENDIX B

LABORATORY ANALYTICAL REPORTS

ASI

ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Laboratory Report

Prepared For:

Safety-Kleen Corporation - Elgin
1502 E. Villa Street
Elgin, IL 60120

Attention: Mr. Bob Schoepke

Report Number: AZA0142

January 19, 2016

Project: Archdale, NC

Project #:45.16031.0010

We appreciate the opportunity to provide the analytical support for your project. 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.

Approved:

Signature

This report may not be reproduced, except in full, without written approval from Analytical Services, Inc.
Analytical Services, Inc. certifies that the following analytical results meet all requirements of the National Environmental Laboratory Accreditation Conference(NELAC).
All test results relate only to the samples analyzed.

ASI

ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Safety-Kleen Corporation - Elgin
1502 E. Villa Street
Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 19, 2016

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SEV-1 (19-21)	AZA0142-01	Soil	01/06/16 15:30	01/08/16 10:05
Trip Blank	AZA0142-02	Water	01/06/16 00:00	01/08/16 10:05

ASI

ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Safety-Kleen Corporation - Elgin
1502 E. Villa Street
Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 19, 2016

Report No.: AZA0142
Client ID: SEV-1 (19-21)
Date/Time Sampled: 1/6/2016 3:30:00PM
Matrix: Soil

Project: Archdale, NC
Lab Number ID: AZA0142-01
Date/Time Received: 1/8/2016 10:05:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
General Chemistry											
% Solids	96.5	0.04	0.04	% by Weight	SOP Moisture		1	01/11/16 09:56	01/11/16 09:56	6010153	DDN
Volatile Organic Compounds by EPA 8260											
Acetone	ND	130	3.8	ug/kg dry	EPA 8260B		1	01/08/16 14:30	01/08/16 15:17	6010133	GCN
Acrolein	ND	63	1.2	ug/kg dry	EPA 8260B		1	01/08/16 14:30	01/08/16 15:17	6010133	GCN
Acrylonitrile	ND	63	1.3	ug/kg dry	EPA 8260B		1	01/08/16 14:30	01/08/16 15:17	6010133	GCN
Benzene	ND	6.3	0.2	ug/kg dry	EPA 8260B		1	01/08/16 14:30	01/08/16 15:17	6010133	GCN
Bromobenzene	ND	13	0.3	ug/kg dry	EPA 8260B		1	01/08/16 14:30	01/08/16 15:17	6010133	GCN
Bromochloromethane	ND	13	0.3	ug/kg dry	EPA 8260B		1	01/08/16 14:30	01/08/16 15:17	6010133	GCN
Bromodichloromethane	ND	3.7	0.1	ug/kg dry	EPA 8260B		1	01/08/16 14:30	01/08/16 15:17	6010133	GCN
Bromoform	ND	13	0.5	ug/kg dry	EPA 8260B		1	01/08/16 14:30	01/08/16 15:17	6010133	GCN
Bromomethane	ND	13	0.9	ug/kg dry	EPA 8260B		1	01/08/16 14:30	01/08/16 15:17	6010133	GCN
n-Butylbenzene	3.5	13	0.2	ug/kg dry	EPA 8260B	J	1	01/08/16 14:30	01/08/16 15:17	6010133	GCN
sec-Butylbenzene	1.5	13	0.2	ug/kg dry	EPA 8260B	J	1	01/08/16 14:30	01/08/16 15:17	6010133	GCN
tert-Butylbenzene	0.2	13	0.1	ug/kg dry	EPA 8260B	J	1	01/08/16 14:30	01/08/16 15:17	6010133	GCN
Carbon Disulfide	ND	13	0.5	ug/kg dry	EPA 8260B		1	01/08/16 14:30	01/08/16 15:17	6010133	GCN
Carbon Tetrachloride	ND	6.3	0.2	ug/kg dry	EPA 8260B		1	01/08/16 14:30	01/08/16 15:17	6010133	GCN
Chlorobenzene	ND	13	0.3	ug/kg dry	EPA 8260B		1	01/08/16 14:30	01/08/16 15:17	6010133	GCN
Chloroethane	ND	6.3	0.3	ug/kg dry	EPA 8260B		1	01/08/16 14:30	01/08/16 15:17	6010133	GCN
Chloroform	ND	6.3	0.2	ug/kg dry	EPA 8260B		1	01/08/16 14:30	01/08/16 15:17	6010133	GCN
Chloromethane	ND	13	0.4	ug/kg dry	EPA 8260B		1	01/08/16 14:30	01/08/16 15:17	6010133	GCN
2-Chlorotoluene	ND	13	0.3	ug/kg dry	EPA 8260B		1	01/08/16 14:30	01/08/16 15:17	6010133	GCN
4-Chlorotoluene	ND	13	0.2	ug/kg dry	EPA 8260B		1	01/08/16 14:30	01/08/16 15:17	6010133	GCN
Dibromochloromethane	ND	6.3	0.3	ug/kg dry	EPA 8260B		1	01/08/16 14:30	01/08/16 15:17	6010133	GCN

ASI

ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Safety-Kleen Corporation - Elgin
1502 E. Villa Street
Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 19, 2016

Report No.: AZA0142
Client ID: SEV-1 (19-21)
Date/Time Sampled: 1/6/2016 3:30:00PM
Matrix: Soil

Project: Archdale, NC
Lab Number ID: AZA0142-01
Date/Time Received: 1/8/2016 10:05:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Volatile Organic Compounds by EPA 8260											
1,2-Dibromo-3-chloropropane	ND	13	1.0	ug/kg dry	EPA 8260B		1	01/08/16 14:30	01/08/16 15:17	6010133	GCN
1,2-Dibromoethane	ND	13	0.3	ug/kg dry	EPA 8260B		1	01/08/16 14:30	01/08/16 15:17	6010133	GCN
Dibromomethane	ND	13	0.3	ug/kg dry	EPA 8260B		1	01/08/16 14:30	01/08/16 15:17	6010133	GCN
1,2-Dichlorobenzene	ND	13	0.1	ug/kg dry	EPA 8260B		1	01/08/16 14:30	01/08/16 15:17	6010133	GCN
1,3-Dichlorobenzene	ND	13	0.2	ug/kg dry	EPA 8260B		1	01/08/16 14:30	01/08/16 15:17	6010133	GCN
1,4-Dichlorobenzene	0.5	13	0.2	ug/kg dry	EPA 8260B	J	1	01/08/16 14:30	01/08/16 15:17	6010133	GCN
Dichlorodifluoromethane	ND	13	0.4	ug/kg dry	EPA 8260B		1	01/08/16 14:30	01/08/16 15:17	6010133	GCN
1,1-Dichloroethane	ND	6.3	0.3	ug/kg dry	EPA 8260B		1	01/08/16 14:30	01/08/16 15:17	6010133	GCN
1,2-Dichloroethane	ND	2.5	0.2	ug/kg dry	EPA 8260B		1	01/08/16 14:30	01/08/16 15:17	6010133	GCN
1,1-Dichloroethene	ND	6.3	0.2	ug/kg dry	EPA 8260B		1	01/08/16 14:30	01/08/16 15:17	6010133	GCN
cis-1,2-Dichloroethene	ND	6.3	0.4	ug/kg dry	EPA 8260B		1	01/08/16 14:30	01/08/16 15:17	6010133	GCN
trans-1,2-Dichloroethene	ND	6.3	0.3	ug/kg dry	EPA 8260B		1	01/08/16 14:30	01/08/16 15:17	6010133	GCN
1,2-Dichloropropane	ND	6.3	0.2	ug/kg dry	EPA 8260B		1	01/08/16 14:30	01/08/16 15:17	6010133	GCN
1,3-Dichloropropane	ND	6.3	0.2	ug/kg dry	EPA 8260B		1	01/08/16 14:30	01/08/16 15:17	6010133	GCN
2,2-Dichloropropane	ND	13	0.3	ug/kg dry	EPA 8260B		1	01/08/16 14:30	01/08/16 15:17	6010133	GCN
1,1-Dichloropropene	ND	13	0.08	ug/kg dry	EPA 8260B		1	01/08/16 14:30	01/08/16 15:17	6010133	GCN
cis-1,3-Dichloropropene	ND	6.3	0.3	ug/kg dry	EPA 8260B		1	01/08/16 14:30	01/08/16 15:17	6010133	GCN
trans-1,3-Dichloropropene	ND	6.3	0.3	ug/kg dry	EPA 8260B		1	01/08/16 14:30	01/08/16 15:17	6010133	GCN
Ethylbenzene	ND	6.3	0.2	ug/kg dry	EPA 8260B		1	01/08/16 14:30	01/08/16 15:17	6010133	GCN
Hexachlorobutadiene	ND	11	0.4	ug/kg dry	EPA 8260B		1	01/08/16 14:30	01/08/16 15:17	6010133	GCN
Isopropylbenzene	ND	13	0.06	ug/kg dry	EPA 8260B		1	01/08/16 14:30	01/08/16 15:17	6010133	GCN
p-Isopropyltoluene	0.3	13	0.2	ug/kg dry	EPA 8260B	J	1	01/08/16 14:30	01/08/16 15:17	6010133	GCN
Methyl Butyl Ketone (2-Hexanone)	ND	63	2.2	ug/kg dry	EPA 8260B		1	01/08/16 14:30	01/08/16 15:17	6010133	GCN
Methylene Chloride	ND	13	0.2	ug/kg dry	EPA 8260B		1	01/08/16 14:30	01/08/16 15:17	6010133	GCN

ASI

ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Safety-Kleen Corporation - Elgin
1502 E. Villa Street
Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 19, 2016

Report No.: AZA0142
Client ID: SEV-1 (19-21)
Date/Time Sampled: 1/6/2016 3:30:00PM
Matrix: Soil

Project: Archdale, NC
Lab Number ID: AZA0142-01
Date/Time Received: 1/8/2016 10:05:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Volatile Organic Compounds by EPA 8260											
Methyl Ethyl Ketone (2-Butanone)	ND	130	1.4	ug/kg dry	EPA 8260B		1	01/08/16 14:30	01/08/16 15:17	6010133	GCN
4-Methyl-2-pentanone (MIBK)	ND	63	1.3	ug/kg dry	EPA 8260B		1	01/08/16 14:30	01/08/16 15:17	6010133	GCN
Naphthalene	5.8	13	0.7	ug/kg dry	EPA 8260B	J	1	01/08/16 14:30	01/08/16 15:17	6010133	GCN
n-Propylbenzene	0.6	13	0.1	ug/kg dry	EPA 8260B	J	1	01/08/16 14:30	01/08/16 15:17	6010133	GCN
Styrene	ND	6.3	0.2	ug/kg dry	EPA 8260B		1	01/08/16 14:30	01/08/16 15:17	6010133	GCN
1,1,1,2-Tetrachloroethane	ND	7.4	0.2	ug/kg dry	EPA 8260B		1	01/08/16 14:30	01/08/16 15:17	6010133	GCN
1,1,2,2-Tetrachloroethane	ND	1.5	0.2	ug/kg dry	EPA 8260B		1	01/08/16 14:30	01/08/16 15:17	6010133	GCN
Tetrachloroethene	ND	6.3	0.4	ug/kg dry	EPA 8260B		1	01/08/16 14:30	01/08/16 15:17	6010133	GCN
Toluene	ND	6.3	0.2	ug/kg dry	EPA 8260B		1	01/08/16 14:30	01/08/16 15:17	6010133	GCN
1,2,3-Trichlorobenzene	ND	13	0.2	ug/kg dry	EPA 8260B		1	01/08/16 14:30	01/08/16 15:17	6010133	GCN
1,2,4-Trichlorobenzene	ND	13	0.4	ug/kg dry	EPA 8260B		1	01/08/16 14:30	01/08/16 15:17	6010133	GCN
1,1,1-Trichloroethane	ND	6.3	0.3	ug/kg dry	EPA 8260B		1	01/08/16 14:30	01/08/16 15:17	6010133	GCN
1,1,2-Trichloroethane	ND	6.3	0.4	ug/kg dry	EPA 8260B		1	01/08/16 14:30	01/08/16 15:17	6010133	GCN
Trichloroethene	ND	6.3	0.3	ug/kg dry	EPA 8260B		1	01/08/16 14:30	01/08/16 15:17	6010133	GCN
Trichlorofluoromethane	ND	13	0.3	ug/kg dry	EPA 8260B		1	01/08/16 14:30	01/08/16 15:17	6010133	GCN
1,2,3-Trichloropropane	ND	13	0.7	ug/kg dry	EPA 8260B		1	01/08/16 14:30	01/08/16 15:17	6010133	GCN
1,2,4-Trimethylbenzene	0.3	13	0.08	ug/kg dry	EPA 8260B	J	1	01/08/16 14:30	01/08/16 15:17	6010133	GCN
1,3,5-Trimethylbenzene	ND	13	0.1	ug/kg dry	EPA 8260B		1	01/08/16 14:30	01/08/16 15:17	6010133	GCN
Vinyl Acetate	ND	13	0.5	ug/kg dry	EPA 8260B		1	01/08/16 14:30	01/08/16 15:17	6010133	GCN
Vinyl Chloride	ND	13	0.5	ug/kg dry	EPA 8260B		1	01/08/16 14:30	01/08/16 15:17	6010133	GCN
m+p-Xylene	ND	6.3	0.1	ug/kg dry	EPA 8260B		1	01/08/16 14:30	01/08/16 15:17	6010133	GCN
o-Xylene	ND	6.3	0.3	ug/kg dry	EPA 8260B		1	01/08/16 14:30	01/08/16 15:17	6010133	GCN
Xylenes, total	ND	6.3	0.3	ug/kg dry	EPA 8260B		1	01/08/16 14:30	01/08/16 15:17	6010133	GCN
Surrogate: Dibromofluoromethane	*95 %*	*80-121*			*EPA 8260B*			01/08/16 14:30	01/08/16 15:17	*6010133*	

ASI

ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Safety-Kleen Corporation - Elgin
1502 E. Villa Street
Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 19, 2016

Report No.: AZA0142
Client ID: SEV-1 (19-21)
Date/Time Sampled: 1/6/2016 3:30:00PM
Matrix: Soil

Project: Archdale, NC
Lab Number ID: AZA0142-01
Date/Time Received: 1/8/2016 10:05:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Volatile Organic Compounds by EPA 8260											
Surrogate: 1,2-Dichloroethane-d4	*98 %*		*70-131*		*EPA 8260B*			01/08/16 14:30	01/08/16 15:17	*6010133*	
Surrogate: Toluene-d8	*90 %*		*79-120*		*EPA 8260B*			01/08/16 14:30	01/08/16 15:17	*6010133*	
Surrogate: 4-Bromofluorobenzene	*97 %*		*80-121*		*EPA 8260B*			01/08/16 14:30	01/08/16 15:17	*6010133*	

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ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Safety-Kleen Corporation - Elgin
1502 E. Villa Street
Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 19, 2016

Report No.: AZA0142
Client ID: Trip Blank
Date/Time Sampled: 1/6/2016 12:00:00AM
Matrix: Water

Project: Archdale, NC
Lab Number ID: AZA0142-02
Date/Time Received: 1/8/2016 10:05:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Volatile Organic Compounds by EPA 8260											
Acetone	ND	10	3.1	ug/L	EPA 8260B		1	01/11/16 13:30	01/11/16 15:09	6010171	GCN
Acrolein	ND	10	1.8	ug/L	EPA 8260B		1	01/11/16 13:30	01/11/16 15:09	6010171	GCN
Acrylonitrile	ND	10	2.0	ug/L	EPA 8260B		1	01/11/16 13:30	01/11/16 15:09	6010171	GCN
Benzene	ND	1.0	0.2	ug/L	EPA 8260B		1	01/11/16 13:30	01/11/16 15:09	6010171	GCN
Bromobenzene	ND	5.0	0.4	ug/L	EPA 8260B		1	01/11/16 13:30	01/11/16 15:09	6010171	GCN
Bromochloromethane	ND	2.0	0.5	ug/L	EPA 8260B		1	01/11/16 13:30	01/11/16 15:09	6010171	GCN
Bromodichloromethane	ND	1.0	0.5	ug/L	EPA 8260B		1	01/11/16 13:30	01/11/16 15:09	6010171	GCN
Bromoform	ND	2.0	0.5	ug/L	EPA 8260B		1	01/11/16 13:30	01/11/16 15:09	6010171	GCN
Bromomethane	ND	2.0	0.8	ug/L	EPA 8260B		1	01/11/16 13:30	01/11/16 15:09	6010171	GCN
n-Butylbenzene	ND	5.0	0.5	ug/L	EPA 8260B		1	01/11/16 13:30	01/11/16 15:09	6010171	GCN
sec-Butylbenzene	ND	5.0	0.4	ug/L	EPA 8260B		1	01/11/16 13:30	01/11/16 15:09	6010171	GCN
tert-Butylbenzene	ND	5.0	0.3	ug/L	EPA 8260B		1	01/11/16 13:30	01/11/16 15:09	6010171	GCN
Carbon Disulfide	ND	5.0	0.5	ug/L	EPA 8260B		1	01/11/16 13:30	01/11/16 15:09	6010171	GCN
Carbon Tetrachloride	ND	1.0	0.4	ug/L	EPA 8260B		1	01/11/16 13:30	01/11/16 15:09	6010171	GCN
Chlorobenzene	ND	2.0	0.5	ug/L	EPA 8260B		1	01/11/16 13:30	01/11/16 15:09	6010171	GCN
1-Chlorobutane	ND	10	0.8	ug/L	EPA 8260B		1	01/11/16 13:30	01/11/16 15:09	6010171	GCN
Chloroethane	ND	1.0	0.6	ug/L	EPA 8260B		1	01/11/16 13:30	01/11/16 15:09	6010171	GCN
Chloroform	ND	1.0	0.4	ug/L	EPA 8260B		1	01/11/16 13:30	01/11/16 15:09	6010171	GCN
Chloromethane	ND	1.0	0.6	ug/L	EPA 8260B		1	01/11/16 13:30	01/11/16 15:09	6010171	GCN
2-Chlorotoluene	ND	1.0	0.3	ug/L	EPA 8260B		1	01/11/16 13:30	01/11/16 15:09	6010171	GCN
4-Chlorotoluene	ND	1.0	0.5	ug/L	EPA 8260B		1	01/11/16 13:30	01/11/16 15:09	6010171	GCN
Dibromochloromethane	ND	2.0	0.3	ug/L	EPA 8260B		1	01/11/16 13:30	01/11/16 15:09	6010171	GCN
1,2-Dibromo-3-chloropropane	ND	2.0	1.0	ug/L	EPA 8260B		1	01/11/16 13:30	01/11/16 15:09	6010171	GCN
1,2-Dibromoethane	ND	1.0	0.4	ug/L	EPA 8260B		1	01/11/16 13:30	01/11/16 15:09	6010171	GCN
Dibromomethane	ND	2.0	0.4	ug/L	EPA 8260B		1	01/11/16 13:30	01/11/16 15:09	6010171	GCN
1,2-Dichlorobenzene	ND	1.0	0.2	ug/L	EPA 8260B		1	01/11/16 13:30	01/11/16 15:09	6010171	GCN
1,3-Dichlorobenzene	ND	1.0	0.3	ug/L	EPA 8260B		1	01/11/16 13:30	01/11/16 15:09	6010171	GCN
1,4-Dichlorobenzene	ND	1.0	0.4	ug/L	EPA 8260B		1	01/11/16 13:30	01/11/16 15:09	6010171	GCN
Dichlorodifluoromethane	ND	2.0	0.5	ug/L	EPA 8260B		1	01/11/16 13:30	01/11/16 15:09	6010171	GCN
1,1-Dichloroethane	ND	1.0	0.3	ug/L	EPA 8260B		1	01/11/16 13:30	01/11/16 15:09	6010171	GCN
1,2-Dichloroethane	ND	1.0	0.3	ug/L	EPA 8260B		1	01/11/16 13:30	01/11/16 15:09	6010171	GCN
1,1-Dichloroethene	ND	1.0	0.6	ug/L	EPA 8260B		1	01/11/16 13:30	01/11/16 15:09	6010171	GCN

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Safety-Kleen Corporation - Elgin
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Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 19, 2016

Report No.: AZA0142
Client ID: Trip Blank
Date/Time Sampled: 1/6/2016 12:00:00AM
Matrix: Water

Project: Archdale, NC
Lab Number ID: AZA0142-02
Date/Time Received: 1/8/2016 10:05:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Volatile Organic Compounds by EPA 8260											
cis-1,2-Dichloroethene	ND	1.0	0.3	ug/L	EPA 8260B		1	01/11/16 13:30	01/11/16 15:09	6010171	GCN
trans-1,2-Dichloroethene	ND	1.0	0.4	ug/L	EPA 8260B		1	01/11/16 13:30	01/11/16 15:09	6010171	GCN
1,2-Dichloropropane	ND	1.0	0.4	ug/L	EPA 8260B		1	01/11/16 13:30	01/11/16 15:09	6010171	GCN
1,3-Dichloropropane	ND	1.0	0.4	ug/L	EPA 8260B		1	01/11/16 13:30	01/11/16 15:09	6010171	GCN
2,2-Dichloropropane	ND	2.0	0.5	ug/L	EPA 8260B		1	01/11/16 13:30	01/11/16 15:09	6010171	GCN
1,1-Dichloropropene	ND	1.0	0.3	ug/L	EPA 8260B		1	01/11/16 13:30	01/11/16 15:09	6010171	GCN
cis-1,3-Dichloropropene	ND	1.0	0.3	ug/L	EPA 8260B		1	01/11/16 13:30	01/11/16 15:09	6010171	GCN
trans-1,3-Dichloropropene	ND	1.0	0.3	ug/L	EPA 8260B		1	01/11/16 13:30	01/11/16 15:09	6010171	GCN
Ethylbenzene	ND	1.0	0.2	ug/L	EPA 8260B		1	01/11/16 13:30	01/11/16 15:09	6010171	GCN
Hexachlorobutadiene	ND	5.0	0.8	ug/L	EPA 8260B		1	01/11/16 13:30	01/11/16 15:09	6010171	GCN
p-Isopropyltoluene	ND	5.0	0.4	ug/L	EPA 8260B		1	01/11/16 13:30	01/11/16 15:09	6010171	GCN
Isopropylbenzene	ND	5.0	0.3	ug/L	EPA 8260B		1	01/11/16 13:30	01/11/16 15:09	6010171	GCN
Methyl Butyl Ketone (2-Hexanone)	ND	10	0.7	ug/L	EPA 8260B		1	01/11/16 13:30	01/11/16 15:09	6010171	GCN
Methylene Chloride	ND	1.0	0.6	ug/L	EPA 8260B		1	01/11/16 13:30	01/11/16 15:09	6010171	GCN
Methyl Ethyl Ketone (2-Butanone)	ND	10	0.9	ug/L	EPA 8260B		1	01/11/16 13:30	01/11/16 15:09	6010171	GCN
4-Methyl-2-pentanone (MIBK)	ND	10	1.0	ug/L	EPA 8260B		1	01/11/16 13:30	01/11/16 15:09	6010171	GCN
Naphthalene	ND	5.0	0.3	ug/L	EPA 8260B		1	01/11/16 13:30	01/11/16 15:09	6010171	GCN
n-Propylbenzene	ND	5.0	0.4	ug/L	EPA 8260B		1	01/11/16 13:30	01/11/16 15:09	6010171	GCN
Styrene	ND	1.0	0.3	ug/L	EPA 8260B		1	01/11/16 13:30	01/11/16 15:09	6010171	GCN
1,1,1,2-Tetrachloroethane	ND	1.0	0.4	ug/L	EPA 8260B		1	01/11/16 13:30	01/11/16 15:09	6010171	GCN
1,1,2,2-Tetrachloroethane	ND	2.0	0.5	ug/L	EPA 8260B		1	01/11/16 13:30	01/11/16 15:09	6010171	GCN
Tetrachloroethene	ND	1.0	0.4	ug/L	EPA 8260B		1	01/11/16 13:30	01/11/16 15:09	6010171	GCN
Toluene	ND	1.0	0.2	ug/L	EPA 8260B		1	01/11/16 13:30	01/11/16 15:09	6010171	GCN
1,2,3-Trichlorobenzene	ND	5.0	0.5	ug/L	EPA 8260B		1	01/11/16 13:30	01/11/16 15:09	6010171	GCN
1,2,4-Trichlorobenzene	ND	5.0	0.8	ug/L	EPA 8260B		1	01/11/16 13:30	01/11/16 15:09	6010171	GCN
1,1,1-Trichloroethane	ND	1.0	0.3	ug/L	EPA 8260B		1	01/11/16 13:30	01/11/16 15:09	6010171	GCN
1,1,2-Trichloroethane	ND	1.0	0.4	ug/L	EPA 8260B		1	01/11/16 13:30	01/11/16 15:09	6010171	GCN
Trichloroethene	ND	1.0	0.4	ug/L	EPA 8260B		1	01/11/16 13:30	01/11/16 15:09	6010171	GCN
Trichlorofluoromethane	ND	1.0	0.3	ug/L	EPA 8260B		1	01/11/16 13:30	01/11/16 15:09	6010171	GCN
1,2,3-Trichloropropane	ND	1.0	0.3	ug/L	EPA 8260B		1	01/11/16 13:30	01/11/16 15:09	6010171	GCN
1,2,4-Trimethylbenzene	ND	5.0	0.3	ug/L	EPA 8260B		1	01/11/16 13:30	01/11/16 15:09	6010171	GCN
1,3,5-Trimethylbenzene	ND	5.0	0.3	ug/L	EPA 8260B		1	01/11/16 13:30	01/11/16 15:09	6010171	GCN

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Attention: Mr. Bob Schoepke

January 19, 2016

Report No.: AZA0142

Client ID: Trip Blank

Date/Time Sampled: 1/6/2016 12:00:00AM

Matrix: Water

Project: Archdale, NC

Lab Number ID: AZA0142-02

Date/Time Received: 1/8/2016 10:05:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Volatile Organic Compounds by EPA 8260											
Vinyl Acetate	ND	5.0	0.6	ug/L	EPA 8260B		1	01/11/16 13:30	01/11/16 15:09	6010171	GCN
Vinyl Chloride	ND	1.0	0.4	ug/L	EPA 8260B		1	01/11/16 13:30	01/11/16 15:09	6010171	GCN
m+p-Xylene	ND	2.0	0.6	ug/L	EPA 8260B		1	01/11/16 13:30	01/11/16 15:09	6010171	GCN
o-Xylene	ND	2.0	0.2	ug/L	EPA 8260B		1	01/11/16 13:30	01/11/16 15:09	6010171	GCN
Xylenes, total	ND	2.0	0.6	ug/L	EPA 8260B		1	01/11/16 13:30	01/11/16 15:09	6010171	GCN
Surrogate: Dibromofluoromethane	*98 %*		*80-120*		*EPA 8260B*			01/11/16 13:30	01/11/16 15:09	*6010171*	
Surrogate: 1,2-Dichloroethane-d4	*95 %*		*78-120*		*EPA 8260B*			01/11/16 13:30	01/11/16 15:09	*6010171*	
Surrogate: Toluene-d8	*94 %*		*80-120*		*EPA 8260B*			01/11/16 13:30	01/11/16 15:09	*6010171*	
Surrogate: 4-Bromofluorobenzene	*100 %*		*80-120*		*EPA 8260B*			01/11/16 13:30	01/11/16 15:09	*6010171*	

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Attention: Mr. Bob Schoepke

January 19, 2016

Report No.: AZA0142

General Chemistry - Quality Control

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6010153 - % Solids											
Duplicate (6010153-DUP1)			**Source: AZA0142-01**			Prepared & Analyzed: 01/11/16					
% Solids	96.6	0.04	0.04	% by Weight		96.5			0.1	10	

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Attention: Mr. Bob Schoepke

January 19, 2016

Report No.: AZA0142

Volatile Organic Compounds by EPA 8260 - Quality Control

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6010133 - EPA 5035											
Blank (6010133-BLK1)						Prepared & Analyzed: 01/08/16					
Acetone	ND	100	3.0	ug/kg wet							
Acrolein	ND	50	0.9	ug/kg wet							
Acrylonitrile	ND	50	1.0	ug/kg wet							
Benzene	ND	5.0	0.2	ug/kg wet							
Bromobenzene	ND	10	0.2	ug/kg wet							
Bromochloromethane	ND	10	0.3	ug/kg wet							
Bromodichloromethane	ND	2.9	0.08	ug/kg wet							
Bromoform	ND	10	0.4	ug/kg wet							
Bromomethane	ND	10	0.7	ug/kg wet							
n-Butylbenzene	ND	10	0.1	ug/kg wet							
sec-Butylbenzene	ND	10	0.2	ug/kg wet							
tert-Butylbenzene	ND	10	0.09	ug/kg wet							
Carbon Disulfide	ND	10	0.4	ug/kg wet							
Carbon Tetrachloride	ND	5.0	0.2	ug/kg wet							
Chlorobenzene	ND	10	0.2	ug/kg wet							
Chloroethane	ND	5.0	0.3	ug/kg wet							
Chloroform	ND	5.0	0.2	ug/kg wet							
Chloromethane	ND	10	0.3	ug/kg wet							
2-Chlorotoluene	ND	10	0.2	ug/kg wet							
4-Chlorotoluene	ND	10	0.2	ug/kg wet							
Dibromochloromethane	ND	5.0	0.3	ug/kg wet							
1,2-Dibromo-3-chloropropane	ND	10	0.8	ug/kg wet							
1,2-Dibromoethane	ND	10	0.2	ug/kg wet							
Dibromomethane	ND	10	0.2	ug/kg wet							
1,2-Dichlorobenzene	ND	10	0.1	ug/kg wet							
1,3-Dichlorobenzene	ND	10	0.2	ug/kg wet							
1,4-Dichlorobenzene	ND	10	0.1	ug/kg wet							
Dichlorodifluoromethane	ND	10	0.3	ug/kg wet							
1,1-Dichloroethane	ND	5.0	0.2	ug/kg wet							
1,2-Dichloroethane	ND	2.0	0.2	ug/kg wet							
1,1-Dichloroethene	ND	5.0	0.2	ug/kg wet							
cis-1,2-Dichloroethene	ND	5.0	0.3	ug/kg wet							
trans-1,2-Dichloroethene	ND	5.0	0.2	ug/kg wet							
1,2-Dichloropropane	ND	5.0	0.2	ug/kg wet							
1,3-Dichloropropane	ND	5.0	0.1	ug/kg wet							
2,2-Dichloropropane	ND	10	0.3	ug/kg wet							
1,1-Dichloropropene	ND	10	0.06	ug/kg wet							
cis-1,3-Dichloropropene	ND	5.0	0.2	ug/kg wet							
trans-1,3-Dichloropropene	ND	5.0	0.3	ug/kg wet							

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January 19, 2016

Report No.: AZA0142

Volatile Organic Compounds by EPA 8260 - Quality Control

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6010133 - EPA 5035											
Blank (6010133-BLK1)						Prepared & Analyzed: 01/08/16					
Ethylbenzene	ND	5.0	0.2	ug/kg wet							
Hexachlorobutadiene	ND	8.7	0.3	ug/kg wet							
Isopropylbenzene	ND	10	0.05	ug/kg wet							
p-Isopropyltoluene	ND	10	0.1	ug/kg wet							
Methyl Butyl Ketone (2-Hexanone)	ND	50	1.7	ug/kg wet							
Methylene Chloride	ND	10	0.1	ug/kg wet							
Methyl Ethyl Ketone (2-Butanone)	ND	100	1.1	ug/kg wet							
4-Methyl-2-pentanone (MIBK)	ND	50	1.0	ug/kg wet							
Naphthalene	ND	10	0.5	ug/kg wet							
n-Propylbenzene	ND	10	0.1	ug/kg wet							
Styrene	ND	5.0	0.1	ug/kg wet							
1,1,1,2-Tetrachloroethane	ND	5.9	0.2	ug/kg wet							
1,1,2,2-Tetrachloroethane	ND	1.2	0.2	ug/kg wet							
Tetrachloroethene	ND	5.0	0.3	ug/kg wet							
Toluene	ND	5.0	0.2	ug/kg wet							
1,2,3-Trichlorobenzene	ND	10	0.2	ug/kg wet							
1,2,4-Trichlorobenzene	ND	10	0.3	ug/kg wet							
1,1,1-Trichloroethane	ND	5.0	0.2	ug/kg wet							
1,1,2-Trichloroethane	ND	5.0	0.3	ug/kg wet							
Trichloroethene	ND	5.0	0.3	ug/kg wet							
Trichlorofluoromethane	ND	10	0.2	ug/kg wet							
1,2,3-Trichloropropane	ND	10	0.5	ug/kg wet							
1,2,4-Trimethylbenzene	ND	10	0.06	ug/kg wet							
1,3,5-Trimethylbenzene	ND	10	0.1	ug/kg wet							
Vinyl Acetate	ND	10	0.4	ug/kg wet							
Vinyl Chloride	ND	10	0.4	ug/kg wet							
m+p-Xylene	ND	5.0	0.1	ug/kg wet							
o-Xylene	ND	5.0	0.2	ug/kg wet							
Xylenes, total	ND	5.0	0.2	ug/kg wet							
Surrogate: Dibromofluoromethane	*47*			*ug/kg*	*50.000*		*93*	*80-121*			
Surrogate: 1,2-Dichloroethane-d4	*48*			*ug/kg*	*50.000*		*96*	*70-131*			
Surrogate: Toluene-d8	*47*			*ug/kg*	*50.000*		*95*	*79-120*			
Surrogate: 4-Bromofluorobenzene	*52*			*ug/kg*	*50.000*		*103*	*80-121*			

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January 19, 2016

Report No.: AZA0142

Volatile Organic Compounds by EPA 8260 - Quality Control

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6010133 - EPA 5035											
LCS (6010133-BS1)						Prepared & Analyzed: 01/08/16					
Benzene	42			ug/kg	50.000		84	71-125			
Chlorobenzene	43			ug/kg	50.000		86	70-120			
1,1-Dichloroethene	45			ug/kg	50.000		90	71-139			
Toluene	42			ug/kg	50.000		84	69-120			
Trichloroethene	44			ug/kg	50.000		88	75-124			
Surrogate: Dibromofluoromethane	*46*			*ug/kg*	*50.000*		*93*	*80-121*			
Surrogate: 1,2-Dichloroethane-d4	*49*			*ug/kg*	*50.000*		*97*	*70-131*			
Surrogate: Toluene-d8	*47*			*ug/kg*	*50.000*		*94*	*79-120*			
Surrogate: 4-Bromofluorobenzene	*50*			*ug/kg*	*50.000*		*99*	*80-121*			
Matrix Spike (6010133-MS1)		**Source: AZA0142-01**				Prepared & Analyzed: 01/08/16					
Benzene	44			ug/kg	50.000	ND	88	70-137			
Chlorobenzene	45			ug/kg	50.000	ND	90	33-131			
1,1-Dichloroethene	47			ug/kg	50.000	ND	94	48-146			
Toluene	44			ug/kg	50.000	ND	89	41-133			
Trichloroethene	45			ug/kg	50.000	ND	90	43-138			
Surrogate: Dibromofluoromethane	*47*			*ug/kg*	*50.000*		*95*	*80-121*			
Surrogate: 1,2-Dichloroethane-d4	*51*			*ug/kg*	*50.000*		*101*	*70-131*			
Surrogate: Toluene-d8	*47*			*ug/kg*	*50.000*		*93*	*79-120*			
Surrogate: 4-Bromofluorobenzene	*52*			*ug/kg*	*50.000*		*104*	*80-121*			
Matrix Spike Dup (6010133-MSD1)		**Source: AZA0142-01**				Prepared & Analyzed: 01/08/16					
Benzene	45			ug/kg	50.000	ND	89	70-137	2	41	
Chlorobenzene	46			ug/kg	50.000	ND	92	33-131	2	46	
1,1-Dichloroethene	47			ug/kg	50.000	ND	94	48-146	0.5	57	
Toluene	44			ug/kg	50.000	ND	87	41-133	2	61	
Trichloroethene	44			ug/kg	50.000	ND	88	43-138	1	49	
Surrogate: Dibromofluoromethane	*47*			*ug/kg*	*50.000*		*94*	*80-121*			
Surrogate: 1,2-Dichloroethane-d4	*50*			*ug/kg*	*50.000*		*101*	*70-131*			
Surrogate: Toluene-d8	*47*			*ug/kg*	*50.000*		*94*	*79-120*			
Surrogate: 4-Bromofluorobenzene	*53*			*ug/kg*	*50.000*		*106*	*80-121*			

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ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Safety-Kleen Corporation - Elgin
1502 E. Villa Street
Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 19, 2016

Report No.: AZA0142

Volatile Organic Compounds by EPA 8260 - Quality Control

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6010171 - EPA 5030B											
Blank (6010171-BLK1)						Prepared & Analyzed: 01/11/16					
Acetone	ND	100	3.1	ug/L							
Acrolein	ND	50	1.8	ug/L							
Acrylonitrile	ND	50	2.0	ug/L							
Allyl Chloride (3-Chloropropylene)	ND	10	1.0	ug/L							
Benzene	ND	2.0	0.2	ug/L							
Bromobenzene	ND	10	0.4	ug/L							
Bromochloromethane	ND	10	0.5	ug/L							
Bromodichloromethane	ND	10	0.5	ug/L							
Bromoform	ND	10	0.5	ug/L							
Bromomethane	ND	10	0.8	ug/L							
n-Butylbenzene	ND	10	0.5	ug/L							
sec-Butylbenzene	ND	10	0.4	ug/L							
tert-Butylbenzene	ND	10	0.3	ug/L							
Carbon Disulfide	ND	10	0.5	ug/L							
Carbon Tetrachloride	ND	2.0	0.4	ug/L							
Chlorobenzene	ND	10	0.5	ug/L							
1-Chlorobutane	ND	10	0.8	ug/L							
Chloroethane	ND	5.0	0.6	ug/L							
2-Chloroethyl Vinyl Ether	ND	10	0.6	ug/L							
Chloroform	ND	2.0	0.4	ug/L							
Chloromethane	ND	10	0.6	ug/L							
2-Chlorotoluene	ND	10	0.3	ug/L							
4-Chlorotoluene	ND	10	0.5	ug/L							
Dibromochloromethane	ND	10	0.3	ug/L							
1,2-Dibromo-3-chloropropane	ND	10	1.0	ug/L							
1,2-Dibromoethane	ND	10	0.4	ug/L							
Dibromomethane	ND	10	0.4	ug/L							
1,2-Dichlorobenzene	ND	10	0.2	ug/L							
1,3-Dichlorobenzene	ND	10	0.3	ug/L							
1,4-Dichlorobenzene	ND	10	0.4	ug/L							
trans-1,4-Dichloro-2-butene	ND	5.0	1.1	ug/L							
Dichlorodifluoromethane	ND	10	0.5	ug/L							
1,1-Dichloroethane	ND	2.0	0.3	ug/L							
1,2-Dichloroethane	ND	2.0	0.3	ug/L							
1,1-Dichloroethene	ND	2.0	0.6	ug/L							
cis-1,2-Dichloroethene	ND	2.0	0.3	ug/L							
trans-1,2-Dichloroethene	ND	2.0	0.4	ug/L							
1,2-Dichloropropane	ND	2.0	0.4	ug/L							
1,3-Dichloropropane	ND	2.0	0.4	ug/L							

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January 19, 2016

Report No.: AZA0142

Volatile Organic Compounds by EPA 8260 - Quality Control

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6010171 - EPA 5030B											
Blank (6010171-BLK1)						Prepared & Analyzed: 01/11/16					
2,2-Dichloropropane	ND	10	0.5	ug/L							
1,1-Dichloropropene	ND	10	0.3	ug/L							
cis-1,3-Dichloropropene	ND	2.0	0.3	ug/L							
trans-1,3-Dichloropropene	ND	2.0	0.3	ug/L							
Ethylbenzene	ND	2.0	0.2	ug/L							
Ethyl Methacrylate	ND	10	0.5	ug/L							
Hexachlorobutadiene	ND	10	0.8	ug/L							
p-Isopropyltoluene	ND	10	0.4	ug/L							
Hexachloroethane	ND	10	0.8	ug/L							
Iodomethane	ND	10	1.7	ug/L							
Isopropylbenzene	ND	10	0.3	ug/L							
Methacrylonitrile	ND	10	1.6	ug/L							
Methyl Acrylate	ND	10	1.0	ug/L							
Methyl Butyl Ketone (2-Hexanone)	ND	10	0.7	ug/L							
Methylene Chloride	ND	5.0	0.6	ug/L							
Methyl Ethyl Ketone (2-Butanone)	ND	100	0.9	ug/L							
Methyl Methacrylate	ND	10	0.4	ug/L							
4-Methyl-2-pentanone (MIBK)	ND	10	1.0	ug/L							
Methyl-tert-Butyl Ether	ND	10	0.6	ug/L							
Naphthalene	ND	10	0.3	ug/L							
2-Nitropropane	ND	10	1.2	ug/L							
Propionitrile (Ethyl Cyanide)	ND	20	1.4	ug/L							
n-Propylbenzene	ND	10	0.4	ug/L							
Styrene	ND	5.0	0.3	ug/L							
1,1,1,2-Tetrachloroethane	ND	2.0	0.4	ug/L							
1,1,2,2-Tetrachloroethane	ND	2.0	0.5	ug/L							
Tetrachloroethene	ND	2.0	0.4	ug/L							
Toluene	ND	2.0	0.2	ug/L							
1,2,3-Trichlorobenzene	ND	10	0.5	ug/L							
1,2,4-Trichlorobenzene	ND	10	0.8	ug/L							
1,1,1-Trichloroethane	ND	2.0	0.3	ug/L							
1,1,2-Trichloroethane	ND	2.0	0.4	ug/L							
Trichloroethene	ND	2.0	0.4	ug/L							
Trichlorofluoromethane	ND	10	0.3	ug/L							
1,2,3-Trichloropropane	ND	10	0.3	ug/L							
1,2,4-Trimethylbenzene	ND	10	0.3	ug/L							
1,3,5-Trimethylbenzene	ND	10	0.3	ug/L							
Vinyl Acetate	ND	10	0.6	ug/L							
Vinyl Chloride	ND	2.0	0.4	ug/L							

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January 19, 2016

Report No.: AZA0142

Volatile Organic Compounds by EPA 8260 - Quality Control

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6010171 - EPA 5030B											
Blank (6010171-BLK1)						Prepared & Analyzed: 01/11/16					
m+p-Xylene	ND	5.0	0.6	ug/L							
o-Xylene	ND	5.0	0.2	ug/L							
Xylenes, total	ND	5.0	0.6	ug/L							
Surrogate: Dibromofluoromethane	*47*			*ug/L*	*50.000*		*95*	*80-120*			
Surrogate: 1,2-Dichloroethane-d4	*46*			*ug/L*	*50.000*		*92*	*78-120*			
Surrogate: Toluene-d8	*47*			*ug/L*	*50.000*		*93*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*51*			*ug/L*	*50.000*		*101*	*80-120*			
LCS (6010171-BS1)						Prepared & Analyzed: 01/11/16					
Benzene	51			ug/L	50.000		102	67-134			
Chlorobenzene	49			ug/L	50.000		97	69-122			
1,1-Dichloroethene	46			ug/L	50.000		93	58-142			
Toluene	49			ug/L	50.000		98	68-127			
Trichloroethene	51			ug/L	50.000		102	72-132			
Surrogate: Dibromofluoromethane	*52*			*ug/L*	*50.000*		*105*	*80-120*			
Surrogate: 1,2-Dichloroethane-d4	*47*			*ug/L*	*50.000*		*94*	*78-120*			
Surrogate: Toluene-d8	*46*			*ug/L*	*50.000*		*92*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*46*			*ug/L*	*50.000*		*92*	*80-120*			
Matrix Spike (6010171-MS1)			**Source: AZA0185-01**			Prepared & Analyzed: 01/11/16					
Benzene	46			ug/L	50.000	ND	92	67-134			
Chlorobenzene	46			ug/L	50.000	0.8	90	69-122			
1,1-Dichloroethene	46			ug/L	50.000	ND	93	58-142			
Toluene	46			ug/L	50.000	ND	91	68-127			
Trichloroethene	47			ug/L	50.000	ND	93	72-132			
Surrogate: Dibromofluoromethane	*45*			*ug/L*	*50.000*		*91*	*80-120*			
Surrogate: 1,2-Dichloroethane-d4	*50*			*ug/L*	*50.000*		*100*	*78-120*			
Surrogate: Toluene-d8	*46*			*ug/L*	*50.000*		*93*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*48*			*ug/L*	*50.000*		*97*	*80-120*			

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Attention: Mr. Bob Schoepke

January 19, 2016

Report No.: AZA0142

Volatile Organic Compounds by EPA 8260 - Quality Control

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6010171 - EPA 5030B											
Matrix Spike Dup (6010171-MSD1)			**Source: AZA0185-01**			Prepared & Analyzed: 01/11/16					
Benzene	51			ug/L	50.000	ND	102	67-134	11	9	QR-02
Chlorobenzene	53			ug/L	50.000	0.8	105	69-122	15	13	QR-02
1,1-Dichloroethene	50			ug/L	50.000	ND	100	58-142	7	9	
Toluene	51			ug/L	50.000	ND	103	68-127	12	9	QR-02
Trichloroethene	51			ug/L	50.000	ND	102	72-132	9	11	
Surrogate: Dibromofluoromethane	*47*			*ug/L*	*50.000*		*93*	*80-120*			
Surrogate: 1,2-Dichloroethane-d4	*51*			*ug/L*	*50.000*		*101*	*78-120*			
Surrogate: Toluene-d8	*46*			*ug/L*	*50.000*		*93*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*49*			*ug/L*	*50.000*		*98*	*80-120*			

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Attention: Mr. Bob Schoepke

January 19, 2016

Laboratory Certifications

Code	Description	Number	Expires
LA	Louisiana	02069	06/30/2016
NC	North Carolina	381	12/31/2016
NELAC	FL DOH (Non-Pot. Water, Solids) Eff:: 07/01/2015	E87315	06/30/2016
TX	Texas	T104704397-08-TX	03/31/2016
VA	Virginia	1340	12/14/2016

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Attention: Mr. Bob Schoepke

January 19, 2016

Legend

Definition of Laboratory Terms

ND - Not Detected at levels equal to or greater than the MDL
BRL - Not Detected at levels equal to or greater than the RL
RL - Reporting Limit **MDL** - Method Detection Limit
SOP - Method run per ASI Standard Operating Procedure
CFU - Colony Forming Units
DF - Dilution Factor **TIC** - Tentatively Identified Compound
***** - Analyte not included in the NELAC list of certified analytes.

Sample Information

N-Nitrosodiphenylamine breaks down to diphenylamine in the GCMS; both analytes are reported as N-Nitrososdiphenylamine. ASI is not NELAC certified for N-Nitrososdiphenylamine.

Phthalic acid and phthalic anhydride are reported as dimethyl phthalate

Maleic acid and maleic anhydride are reported as dimethyl malate

1,2-Diphenylhydrazine breaks down to azobenzene in the GCMS; both analytes are reported as azobenzene

Definition of Qualifiers

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries.

J Estimated value less than Reporting Limit (RL) but greater than Method Detection Limit(MDL) (CLP J-Flag).

Note: Unless otherwise noted, all results are reported on an as received basis.

ANALYTICAL SERVICES, INC.

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Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 19, 2016

248459

CHAIN OF CUSTODY RECORD

ASI ANALYTICAL SERVICES, INC.
ENVIRONMENTAL MONITORING & LABORATORY ANALYSIS
110 TECHNOLOGY PARKWAY NORCROSS, GA 30092
(770) 734-4200 : FAX (770) 734-4201 : www.asi-lab.com

PAGE: 1 OF 1

CLIENT NAME: ATC
CLIENT ADDRESS/PHONE NUMBER/FAX NUMBER: 2725 E millbrook Rd Raleigh NC 27604 919-871-0999
REPORT TO: Gerald Olsen CC: Ashley Winkelman
REQUESTED COMPLETION DATE: PO #:
PROJECT NAME/STATE: SK-Arcinsake / NC
PROJECT #: 045.16031.0010

ANALYSIS REQUESTED: CONTAINER TYPE / PRESERVATION / # of CONTAINERS — EPA 8260

DATE	TIME	MATRIX CODE* (COMPOSITE / GRAB)	SAMPLE IDENTIFICATION	# of CONTAINERS
1/6/16	1530	S	SVE-1 (19-21)	4
—	—	W	TRIP BLANK	3

CONTAINER TYPE	PRESERVATION
P - PLASTIC	1 - HCl, ≤6°C
A - AMBER GLASS	2 - H_2SO_4, ≤6°C
G - CLEAR GLASS	3 - HNO_3
V - VOA VIAL	4 - NaOH, ≤6°C
S - STERILE	5 - NaOH/ZnAc, ≤6°C
O - OTHER	6 - $Na_2S_2O_3$, ≤6°C
	7 - ≤6°C not frozen

*MATRIX CODES:

DW - DRINKING WATER	S - SOIL		
WW - WASTEWATER	SL - SLUDGE		
GW - GROUNDWATER	SD - SOLID		
SW - SURFACE WATER	A - AIR		
ST - STORM WATER	L - LIQUID		
W - WATER	P - PRODUCT		

REMARKS/ADDITIONAL INFORMATION: Do not Test for EPA 8260

SAMPLED BY AND TITLE: EG / Staff Scientist — DATE/TIME: 1/6/16 1005
RECEIVED BY: — DATE/TIME:
RELINQUISHED BY: Robert Brown — DATE/TIME: 1/7/16 1800
RELINQUISHED BY: — DATE/TIME:
RECEIVED BY/LAB: — DATE/TIME: 1/8/16 1005
SAMPLE SHIPPED VIA: UPS FEDEX USPS COURIER CLIENT OTHER
Custody Seal: Intact Broken Not Present — # of Coolers: — Cooler Temp: 2.8 Min: Max:
pH Checked: Yes No NA — Rec'd No NA

FOR LAB USE ONLY
LAB #: A24014-2
Entered into LIMS: [illegible]

Revised 2013-10-31

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Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

LOG-IN CHECKLIST **Printed: 1/19/2016 6:12:44PM**

Attn: Mr. Bob Schoepke

Client: Safety-Kleen Corporation - Elgin
Project: Archdale, NC
Date Received: 01/08/16 10:05

Work Order: AZA0142
Logged In By: Charles Hawks

OBSERVATIONS

#Samples: 2 **#Containers:** 7

Minimum Temp(C): 2.0 **Maximum Temp(C):** 2.0 **Custody Seal(s) Used:** Yes

CHECKLIST ITEMS

COC included with Samples	YES
Sample Container(s) Intact	YES
Chain of Custody Complete	YES
Sample Container(s) Match COC	YES
Custody seal Intact	YES
Temperature in Compliance	YES
Sufficient Sample Volume for Analysis	YES
Zero Headspace Maintained for VOA Analyses	YES
Samples labeled preserved (If Applicable)	YES
Samples received within Allowable Hold Times	YES
Samples Received on Ice	YES
Preservation Confirmed	YES

Comments:

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ANALYTICAL SERVICES, INC.

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Laboratory Report

Prepared For:

Safety-Kleen Corporation - Elgin
1502 E. Villa Street
Elgin, IL 60120

Attention: Mr. Bob Schoepke

Report Number: AZA0197

January 22, 2016

Project: Archdale, NC

Project #:45.16031.0010

We appreciate the opportunity to provide the analytical support for your project. 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.

Approved:

Signature

This report may not be reproduced, except in full, without written approval from Analytical Services, Inc.
Analytical Services, Inc. certifies that the following analytical results meet all requirements of the National Environmental Laboratory Accreditation Conference(NELAC).
All test results relate only to the samples analyzed.

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ANALYTICAL SERVICES, INC.

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Safety-Kleen Corporation - Elgin
1502 E. Villa Street
Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 22, 2016

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SVE-1 (17-19)	AZA0197-01	Soil	01/08/16 09:00	01/12/16 09:50
Duplicate	AZA0197-02	Soil	01/08/16 09:00	01/12/16 09:50

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1502 E. Villa Street
Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 22, 2016

Report No.: AZA0197
Client ID: SVE-1 (17-19)
Date/Time Sampled: 1/8/2016 9:00:00AM
Matrix: Soil

Project: Archdale, NC
Lab Number ID: AZA0197-01
Date/Time Received: 1/12/2016 9:50:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
General Chemistry											
% Solids	95.1	0.04	0.04	% by Weight	SOP Moisture		1	01/18/16 15:56	01/18/16 15:56	6010323	DDN
Semivolatile Organic Compounds by EPA 8270											
Acenaphthene	ND	350	100	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 21:44	6010315	JRS
Acenaphthylene	ND	350	110	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 21:44	6010315	JRS
Anthracene	ND	350	76	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 21:44	6010315	JRS
Benzo(ghi)perylene	ND	350	82	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 21:44	6010315	JRS
Benzo(k)fluoranthene	ND	350	88	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 21:44	6010315	JRS
Benzoic acid	ND	1800	130	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 21:44	6010315	JRS
Benzyl alcohol	ND	700	140	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 21:44	6010315	JRS
Benzyl butyl phthalate	ND	350	130	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 21:44	6010315	JRS
4-Bromophenyl phenyl ether	ND	350	93	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 21:44	6010315	JRS
Di-n-butyl phthalate	160	350	97	ug/kg dry	EPA 8270D	J	1	01/18/16 08:23	01/18/16 21:44	6010315	JRS
4-Chloroaniline	ND	700	110	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 21:44	6010315	JRS
Bis(2-chloroethoxy)methane	ND	350	140	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 21:44	6010315	JRS
Bis(2-chloroethyl)ether	ND	350	140	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 21:44	6010315	JRS
Bis(2-chloroisopropyl)ether	ND	350	160	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 21:44	6010315	JRS
4-Chloro-3-methylphenol	ND	350	130	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 21:44	6010315	JRS
2-Chloronaphthalene	ND	700	110	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 21:44	6010315	JRS
2-Chlorophenol	ND	350	130	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 21:44	6010315	JRS
4-Chlorophenyl phenyl ether	ND	350	100	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 21:44	6010315	JRS
Chrysene	ND	350	79	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 21:44	6010315	JRS
Dibenzofuran	ND	350	91	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 21:44	6010315	JRS
3,3´-Dichlorobenzidine	ND	350	100	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 21:44	6010315	JRS

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ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Safety-Kleen Corporation - Elgin
1502 E. Villa Street
Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 22, 2016

Report No.: AZA0197
Client ID: SVE-1 (17-19)
Date/Time Sampled: 1/8/2016 9:00:00AM
Matrix: Soil

Project: Archdale, NC
Lab Number ID: AZA0197-01
Date/Time Received: 1/12/2016 9:50:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Semivolatile Organic Compounds by EPA 8270											
2,4-Dichlorophenol	ND	350	130	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 21:44	6010315	JRS
Diethyl phthalate	ND	350	96	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 21:44	6010315	JRS
2,4-Dimethylphenol	ND	350	160	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 21:44	6010315	JRS
Dimethyl phthalate	ND	350	69	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 21:44	6010315	JRS
4,6-Dinitro-2-methylphenol	ND	1800	110	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 21:44	6010315	JRS
2,4-Dinitrophenol	ND	1800	130	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 21:44	6010315	JRS
2,4-Dinitrotoluene	ND	700	87	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 21:44	6010315	JRS
2,6-Dinitrotoluene	ND	700	100	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 21:44	6010315	JRS
Bis(2-ethylhexyl)phthalate	380	350	120	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 21:44	6010315	JRS
Fluoranthene	ND	350	88	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 21:44	6010315	JRS
Fluorene	ND	350	93	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 21:44	6010315	JRS
Hexachlorobenzene	ND	350	85	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 21:44	6010315	JRS
Hexachlorobutadiene	ND	350	140	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 21:44	6010315	JRS
Hexachlorocyclopentadiene	ND	350	140	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 21:44	6010315	JRS
Hexachloroethane	ND	350	160	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 21:44	6010315	JRS
Isophorone	ND	350	140	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 21:44	6010315	JRS
2-Methylnaphthalene	ND	350	120	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 21:44	6010315	JRS
2-Methylphenol (o-cresol)	ND	350	150	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 21:44	6010315	JRS
3+4-Methylphenol (m+p-cresol)	ND	350	180	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 21:44	6010315	JRS
2-Nitroaniline	ND	1800	110	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 21:44	6010315	JRS
3-Nitroaniline	ND	1800	110	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 21:44	6010315	JRS
4-Nitroaniline	ND	1800	93	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 21:44	6010315	JRS
Nitrobenzene	ND	350	120	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 21:44	6010315	JRS
2-Nitrophenol	ND	1800	160	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 21:44	6010315	JRS

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Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Safety-Kleen Corporation - Elgin
1502 E. Villa Street
Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 22, 2016

Report No.: AZA0197
Client ID: SVE-1 (17-19)
Date/Time Sampled: 1/8/2016 9:00:00AM
Matrix: Soil

Project: Archdale, NC
Lab Number ID: AZA0197-01
Date/Time Received: 1/12/2016 9:50:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Semivolatile Organic Compounds by EPA 8270											
4-Nitrophenol	ND	1800	170	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 21:44	6010315	JRS
N-Nitrosodimethylamine	ND	350	140	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 21:44	6010315	JRS
N-Nitrosodiphenylamine/Diphenylamine	ND	350	93	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 21:44	6010315	JRS
N-Nitrosodi-n-propylamine	ND	350	150	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 21:44	6010315	JRS
Di-n-octyl phthalate	ND	350	110	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 21:44	6010315	JRS
Pentachlorophenol	ND	350	120	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 21:44	6010315	JRS
Phenanthrene	ND	350	66	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 21:44	6010315	JRS
Phenol	ND	350	150	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 21:44	6010315	JRS
Pyrene	ND	350	97	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 21:44	6010315	JRS
1,2,4-Trichlorobenzene	ND	350	130	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 21:44	6010315	JRS
2,4,5-Trichlorophenol	ND	350	140	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 21:44	6010315	JRS
2,4,6-Trichlorophenol	ND	350	94	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 21:44	6010315	JRS
Surrogate: 2-Fluorophenol	*61 %*		*21-120*		*EPA 8270D*			01/18/16 08:23	01/18/16 21:44	*6010315*	
Surrogate: Phenol-d6	*67 %*		*19-120*		*EPA 8270D*			01/18/16 08:23	01/18/16 21:44	*6010315*	
Surrogate: Nitrobenzene-d5	*60 %*		*13-120*		*EPA 8270D*			01/18/16 08:23	01/18/16 21:44	*6010315*	
Surrogate: 2-Fluorobiphenyl	*73 %*		*17-120*		*EPA 8270D*			01/18/16 08:23	01/18/16 21:44	*6010315*	
Surrogate: 2,4,6-Tribromophenol	*93 %*		*30-120*		*EPA 8270D*			01/18/16 08:23	01/18/16 21:44	*6010315*	
Surrogate: p-Terphenyl-dl4	*100 %*		*41-120*		*EPA 8270D*			01/18/16 08:23	01/18/16 21:44	*6010315*	
Benzo(a)anthracene	ND	11	3	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/20/16 20:07	6010315	JRS
Benzo(a)pyrene	ND	11	4	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/20/16 20:07	6010315	JRS
Benzo(b)fluoranthene	ND	11	4	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/20/16 20:07	6010315	JRS
Dibenzo(a,h)anthracene	ND	11	5	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/20/16 20:07	6010315	JRS
Indeno(1,2,3-cd)pyrene	ND	11	4	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/20/16 20:07	6010315	JRS
Naphthalene	9	11	4	ug/kg dry	EPA 8270D	J	1	01/18/16 08:23	01/20/16 20:07	6010315	JRS

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Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 22, 2016

Report No.: AZA0197
Client ID: Duplicate
Date/Time Sampled: 1/8/2016 9:00:00AM
Matrix: Soil

Project: Archdale, NC
Lab Number ID: AZA0197-02
Date/Time Received: 1/12/2016 9:50:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
General Chemistry											
% Solids	95.1	0.04	0.04	% by Weight	SOP Moisture		1	01/18/16 15:56	01/18/16 15:56	6010323	DDN
Semivolatile Organic Compounds by EPA 8270											
Acenaphthene	ND	350	100	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 22:06	6010315	JRS
Acenaphthylene	ND	350	110	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 22:06	6010315	JRS
Anthracene	ND	350	75	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 22:06	6010315	JRS
Benzo(ghi)perylene	ND	350	82	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 22:06	6010315	JRS
Benzo(k)fluoranthene	ND	350	88	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 22:06	6010315	JRS
Benzoic acid	ND	1800	130	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 22:06	6010315	JRS
Benzyl alcohol	ND	690	140	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 22:06	6010315	JRS
Benzyl butyl phthalate	ND	350	130	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 22:06	6010315	JRS
4-Bromophenyl phenyl ether	ND	350	93	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 22:06	6010315	JRS
Di-n-butyl phthalate	150	350	97	ug/kg dry	EPA 8270D	J	1	01/18/16 08:23	01/18/16 22:06	6010315	JRS
4-Chloroaniline	ND	690	110	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 22:06	6010315	JRS
Bis(2-chloroethoxy)methane	ND	350	140	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 22:06	6010315	JRS
Bis(2-chloroethyl)ether	ND	350	140	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 22:06	6010315	JRS
Bis(2-chloroisopropyl)ether	ND	350	160	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 22:06	6010315	JRS
4-Chloro-3-methylphenol	ND	350	130	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 22:06	6010315	JRS
2-Chloronaphthalene	ND	690	110	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 22:06	6010315	JRS
2-Chlorophenol	ND	350	130	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 22:06	6010315	JRS
4-Chlorophenyl phenyl ether	ND	350	100	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 22:06	6010315	JRS
Chrysene	ND	350	78	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 22:06	6010315	JRS
Dibenzofuran	ND	350	90	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 22:06	6010315	JRS
3,3´-Dichlorobenzidine	ND	350	100	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 22:06	6010315	JRS

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January 22, 2016

Report No.: AZA0197
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Date/Time Sampled: 1/8/2016 9:00:00AM
Matrix: Soil

Project: Archdale, NC
Lab Number ID: AZA0197-02
Date/Time Received: 1/12/2016 9:50:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Semivolatile Organic Compounds by EPA 8270											
2,4-Dichlorophenol	ND	350	130	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 22:06	6010315	JRS
Diethyl phthalate	ND	350	96	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 22:06	6010315	JRS
2,4-Dimethylphenol	ND	350	160	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 22:06	6010315	JRS
Dimethyl phthalate	ND	350	69	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 22:06	6010315	JRS
4,6-Dinitro-2-methylphenol	ND	1800	110	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 22:06	6010315	JRS
2,4-Dinitrophenol	ND	1800	130	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 22:06	6010315	JRS
2,4-Dinitrotoluene	ND	690	87	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 22:06	6010315	JRS
2,6-Dinitrotoluene	ND	690	100	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 22:06	6010315	JRS
Bis(2-ethylhexyl)phthalate	370	350	120	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 22:06	6010315	JRS
Fluoranthene	ND	350	87	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 22:06	6010315	JRS
Fluorene	ND	350	93	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 22:06	6010315	JRS
Hexachlorobenzene	ND	350	84	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 22:06	6010315	JRS
Hexachlorobutadiene	ND	350	140	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 22:06	6010315	JRS
Hexachlorocyclopentadiene	ND	350	130	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 22:06	6010315	JRS
Hexachloroethane	ND	350	160	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 22:06	6010315	JRS
Isophorone	ND	350	140	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 22:06	6010315	JRS
2-Methylnaphthalene	ND	350	120	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 22:06	6010315	JRS
2-Methylphenol (o-cresol)	ND	350	150	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 22:06	6010315	JRS
3+4-Methylphenol (m+p-cresol)	ND	350	180	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 22:06	6010315	JRS
2-Nitroaniline	ND	1800	110	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 22:06	6010315	JRS
3-Nitroaniline	ND	1800	110	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 22:06	6010315	JRS
4-Nitroaniline	ND	1800	93	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 22:06	6010315	JRS
Nitrobenzene	ND	350	110	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 22:06	6010315	JRS
2-Nitrophenol	ND	1800	160	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 22:06	6010315	JRS

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Matrix: Soil

Project: Archdale, NC
Lab Number ID: AZA0197-02
Date/Time Received: 1/12/2016 9:50:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Semivolatile Organic Compounds by EPA 8270											
4-Nitrophenol	ND	1800	170	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 22:06	6010315	JRS
N-Nitrosodimethylamine	ND	350	140	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 22:06	6010315	JRS
N-Nitrosodiphenylamine/Diphenylamine	ND	350	93	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 22:06	6010315	JRS
N-Nitrosodi-n-propylamine	ND	350	150	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 22:06	6010315	JRS
Di-n-octyl phthalate	ND	350	110	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 22:06	6010315	JRS
Pentachlorophenol	ND	350	120	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 22:06	6010315	JRS
Phenanthrene	ND	350	66	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 22:06	6010315	JRS
Phenol	ND	350	150	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 22:06	6010315	JRS
Pyrene	ND	350	97	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 22:06	6010315	JRS
1,2,4-Trichlorobenzene	ND	350	130	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 22:06	6010315	JRS
2,4,5-Trichlorophenol	ND	350	140	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 22:06	6010315	JRS
2,4,6-Trichlorophenol	ND	350	93	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/18/16 22:06	6010315	JRS
Surrogate: 2-Fluorophenol	*62 %*		*21-120*		*EPA 8270D*			01/18/16 08:23	01/18/16 22:06	*6010315*	
Surrogate: Phenol-d6	*68 %*		*19-120*		*EPA 8270D*			01/18/16 08:23	01/18/16 22:06	*6010315*	
Surrogate: Nitrobenzene-d5	*60 %*		*13-120*		*EPA 8270D*			01/18/16 08:23	01/18/16 22:06	*6010315*	
Surrogate: 2-Fluorobiphenyl	*75 %*		*17-120*		*EPA 8270D*			01/18/16 08:23	01/18/16 22:06	*6010315*	
Surrogate: 2,4,6-Tribromophenol	*92 %*		*30-120*		*EPA 8270D*			01/18/16 08:23	01/18/16 22:06	*6010315*	
Surrogate: p-Terphenyl-dl4	*97 %*		*41-120*		*EPA 8270D*			01/18/16 08:23	01/18/16 22:06	*6010315*	
Benzo(a)anthracene	ND	11	3	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/20/16 20:33	6010315	JRS
Benzo(a)pyrene	ND	11	4	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/20/16 20:33	6010315	JRS
Benzo(b)fluoranthene	ND	11	4	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/20/16 20:33	6010315	JRS
Dibenzo(a,h)anthracene	ND	11	5	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/20/16 20:33	6010315	JRS
Indeno(1,2,3-cd)pyrene	ND	11	4	ug/kg dry	EPA 8270D		1	01/18/16 08:23	01/20/16 20:33	6010315	JRS
Naphthalene	7	11	4	ug/kg dry	EPA 8270D	J	1	01/18/16 08:23	01/20/16 20:33	6010315	JRS

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Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 22, 2016

Report No.: AZA0197

General Chemistry - Quality Control

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6010323 - % Solids											
Duplicate (6010323-DUP1)			**Source: AZA0328-01**			Prepared & Analyzed: 01/18/16					
% Solids	76.9	0.04	0.04	% by Weight		78.5			2	10	
Duplicate (6010323-DUP2)			**Source: AZA0396-04**			Prepared & Analyzed: 01/18/16					
% Solids	24.0	0.04	0.04	% by Weight		24.0			0.3	10	

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ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Safety-Kleen Corporation - Elgin
1502 E. Villa Street
Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 22, 2016

Report No.: AZA0197

Semivolatile Organic Compounds by EPA 8270 - Quality Control

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6010315 - EPA 3550C											
Blank (6010315-BLK1)						Prepared & Analyzed: 01/18/16					
Acenaphthene	ND	330	95	ug/kg wet							
Acenaphthylene	ND	330	100	ug/kg wet							
Anthracene	ND	330	72	ug/kg wet							
Benzo(a)anthracene	ND	10	3	ug/kg wet							
Benzo(a)pyrene	ND	10	4	ug/kg wet							
Benzo(b)fluoranthene	ND	10	4	ug/kg wet							
Benzo(ghi)perylene	94.21	330	78	ug/kg wet							J
Benzo(k)fluoranthene	ND	330	83	ug/kg wet							
Benzoic acid	ND	1700	120	ug/kg wet							
Benzyl alcohol	ND	660	140	ug/kg wet							
Benzyl butyl phthalate	ND	330	120	ug/kg wet							
4-Bromophenyl phenyl ether	ND	330	88	ug/kg wet							
Di-n-butyl phthalate	ND	330	92	ug/kg wet							
4-Chloroaniline	ND	660	110	ug/kg wet							
Bis(2-chloroethoxy)methane	ND	330	130	ug/kg wet							
Bis(2-chloroethyl)ether	ND	330	130	ug/kg wet							
Bis(2-chloroisopropyl)ether	ND	330	160	ug/kg wet							
4-Chloro-3-methylphenol	ND	330	130	ug/kg wet							
2-Chloronaphthalene	ND	660	100	ug/kg wet							
2-Chlorophenol	ND	330	130	ug/kg wet							
4-Chlorophenyl phenyl ether	ND	330	95	ug/kg wet							
Chrysene	ND	330	75	ug/kg wet							
Dibenzo(a,h)anthracene	ND	10	4	ug/kg wet							
Dibenzofuran	ND	330	86	ug/kg wet							
3,3´-Dichlorobenzidine	ND	330	98	ug/kg wet							
2,4-Dichlorophenol	ND	330	120	ug/kg wet							
Diethyl phthalate	ND	330	91	ug/kg wet							
2,4-Dimethylphenol	ND	330	150	ug/kg wet							
Dimethyl phthalate	ND	330	66	ug/kg wet							
4,6-Dinitro-2-methylphenol	ND	1700	100	ug/kg wet							
2,4-Dinitrophenol	ND	1700	120	ug/kg wet							
2,4-Dinitrotoluene	ND	660	83	ug/kg wet							
2,6-Dinitrotoluene	ND	660	98	ug/kg wet							
Bis(2-ethylhexyl)phthalate	ND	330	110	ug/kg wet							
Fluoranthene	ND	330	83	ug/kg wet							
Fluorene	ND	330	88	ug/kg wet							
Hexachlorobenzene	ND	330	80	ug/kg wet							
Hexachlorobutadiene	ND	330	130	ug/kg wet							
Hexachlorocyclopentadiene	ND	330	130	ug/kg wet							

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January 22, 2016

Report No.: AZA0197

Semivolatile Organic Compounds by EPA 8270 - Quality Control

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6010315 - EPA 3550C											
Blank (6010315-BLK1)						Prepared & Analyzed: 01/18/16					
Hexachloroethane	ND	330	150	ug/kg wet							
Indeno(1,2,3-cd)pyrene	ND	10	4	ug/kg wet							
Isophorone	ND	330	130	ug/kg wet							
2-Methylnaphthalene	ND	330	120	ug/kg wet							
2-Methylphenol (o-cresol)	ND	330	140	ug/kg wet							
3+4-Methylphenol (m+p-cresol)	ND	330	170	ug/kg wet							
Naphthalene	ND	10	4	ug/kg wet							
2-Nitroaniline	ND	1700	100	ug/kg wet							
3-Nitroaniline	ND	1700	100	ug/kg wet							
4-Nitroaniline	ND	1700	88	ug/kg wet							
Nitrobenzene	ND	330	110	ug/kg wet							
2-Nitrophenol	ND	1700	150	ug/kg wet							
4-Nitrophenol	ND	1700	160	ug/kg wet							
N-Nitrosodimethylamine	ND	330	130	ug/kg wet							
N-Nitrosodiphenylamine/Diphenylamine	ND	330	88	ug/kg wet							
N-Nitrosodi-n-propylamine	ND	330	140	ug/kg wet							
Di-n-octyl phthalate	ND	330	110	ug/kg wet							
Pentachlorophenol	ND	330	110	ug/kg wet							
Phenanthrene	ND	330	63	ug/kg wet							
Phenol	ND	330	150	ug/kg wet							
Pyrene	ND	330	92	ug/kg wet							
1,2,4-Trichlorobenzene	ND	330	130	ug/kg wet							
2,4,5-Trichlorophenol	ND	330	130	ug/kg wet							
2,4,6-Trichlorophenol	ND	330	89	ug/kg wet							
Surrogate: 2-Fluorophenol	*2397*			*ug/kg wet*	*3328.9*		*72*	*21-120*			
Surrogate: Phenol-d6	*2655*			*ug/kg wet*	*3328.9*		*80*	*19-120*			
Surrogate: Nitrobenzene-d5	*1203*			*ug/kg wet*	*1664.4*		*72*	*13-120*			
Surrogate: 2-Fluorobiphenyl	*1407*			*ug/kg wet*	*1664.4*		*85*	*17-120*			
Surrogate: 2,4,6-Tribromophenol	*3093*			*ug/kg wet*	*3328.9*		*93*	*30-120*			
Surrogate: p-Terphenyl-dl4	*1685*			*ug/kg wet*	*1664.4*		*101*	*41-120*			

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1502 E. Villa Street
Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 22, 2016

Report No.: AZA0197

Semivolatile Organic Compounds by EPA 8270 - Quality Control

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6010315 - EPA 3550C											
LCS (6010315-BS1)						Prepared & Analyzed: 01/18/16					
Acenaphthene	1600	330	95	ug/kg wet	1669.4		97	40-120			
4-Chloro-3-methylphenol	3000	330	130	ug/kg wet	3338.9		90	35-120			
2-Chlorophenol	2300	330	130	ug/kg wet	3338.9		70	25-120			
1,4-Dichlorobenzene	1100	330	110	ug/kg wet	1669.4		65	24-120			
2,4-Dinitrotoluene	1900	660	83	ug/kg wet	1669.4		115	36-120			
4-Nitrophenol	3000	1700	160	ug/kg wet	3338.9		89	14-125			
N-Nitrosodi-n-propylamine	1400	330	150	ug/kg wet	1669.4		86	30-120			
Pentachlorophenol	3300	660	110	ug/kg wet	3338.9		99	40-120			
Phenol	2200	330	150	ug/kg wet	3338.9		67	22-120			
Pyrene	1900	330	92	ug/kg wet	1669.4		113	62-120			
1,2,4-Trichlorobenzene	1200	330	130	ug/kg wet	1669.4		72	30-120			
Surrogate: 2-Fluorophenol	*2011*			*ug/kg wet*	*3338.9*		*60*	*21-120*			
Surrogate: Phenol-d6	*2306*			*ug/kg wet*	*3338.9*		*69*	*19-120*			
Surrogate: Nitrobenzene-d5	*1030*			*ug/kg wet*	*1669.4*		*62*	*13-120*			
Surrogate: 2-Fluorobiphenyl	*1297*			*ug/kg wet*	*1669.4*		*78*	*17-120*			
Surrogate: 2,4,6-Tribromophenol	*3531*			*ug/kg wet*	*3338.9*		*106*	*30-120*			
Surrogate: p-Terphenyl-dl4	*1906*			*ug/kg wet*	*1669.4*		*114*	*41-120*			
Matrix Spike (6010315-MS1)		**Source: AZA0197-01**				Prepared & Analyzed: 01/18/16					
Acenaphthene	1500	350	99	ug/kg dry	1749.2	ND	85	10-120			
4-Chloro-3-methylphenol	2600	350	130	ug/kg dry	3498.5	ND	74	10-129			
2-Chlorophenol	2300	350	130	ug/kg dry	3498.5	ND	65	10-120			
1,4-Dichlorobenzene	1100	350	120	ug/kg dry	1749.2	ND	63	10-120			
2,4-Dinitrotoluene	1500	690	87	ug/kg dry	1749.2	ND	88	10-126			
4-Nitrophenol	2400	1800	170	ug/kg dry	3498.5	ND	67	10-128			
N-Nitrosodi-n-propylamine	1200	350	150	ug/kg dry	1749.2	ND	66	10-121			
Pentachlorophenol	2800	690	120	ug/kg dry	3498.5	ND	79	40-120			
Phenol	2200	350	150	ug/kg dry	3498.5	ND	63	10-120			
Pyrene	1700	350	97	ug/kg dry	1749.2	ND	97	10-138			
1,2,4-Trichlorobenzene	1200	350	130	ug/kg dry	1749.2	ND	68	10-120			
Surrogate: 2-Fluorophenol	*2091*			*ug/kg dry*	*3498.5*		*60*	*21-120*			
Surrogate: Phenol-d6	*2209*			*ug/kg dry*	*3498.5*		*63*	*19-120*			
Surrogate: Nitrobenzene-d5	*1046*			*ug/kg dry*	*1749.2*		*60*	*13-120*			
Surrogate: 2-Fluorobiphenyl	*1253*			*ug/kg dry*	*1749.2*		*72*	*17-120*			
Surrogate: 2,4,6-Tribromophenol	*3193*			*ug/kg dry*	*3498.5*		*91*	*30-120*			
Surrogate: p-Terphenyl-dl4	*1714*			*ug/kg dry*	*1749.2*		*98*	*41-120*			

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ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
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Safety-Kleen Corporation - Elgin
1502 E. Villa Street
Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 22, 2016

Report No.: AZA0197

Semivolatile Organic Compounds by EPA 8270 - Quality Control

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6010315 - EPA 3550C											
Matrix Spike Dup (6010315-MSD1)		**Source: AZA0197-01**				Prepared & Analyzed: 01/18/16					
Acenaphthene	1500	350	100	ug/kg dry	1751.0	ND	86	10-120	1	58	
4-Chloro-3-methylphenol	2700	350	130	ug/kg dry	3501.9	ND	78	10-129	5	45	
2-Chlorophenol	2400	350	130	ug/kg dry	3501.9	ND	69	10-120	7	45	
1,4-Dichlorobenzene	1100	350	120	ug/kg dry	1751.0	ND	64	10-120	2	63	
2,4-Dinitrotoluene	1600	690	87	ug/kg dry	1751.0	ND	93	10-126	5	62	
4-Nitrophenol	2500	1800	170	ug/kg dry	3501.9	ND	73	10-128	8	50	
N-Nitrosodi-n-propylamine	1300	350	150	ug/kg dry	1751.0	ND	75	10-121	12	59	
Pentachlorophenol	3100	690	120	ug/kg dry	3501.9	ND	88	40-120	11	40	
Phenol	2300	350	150	ug/kg dry	3501.9	ND	67	10-120	6	41	
Pyrene	1700	350	97	ug/kg dry	1751.0	ND	99	10-138	2	47	
1,2,4-Trichlorobenzene	1200	350	130	ug/kg dry	1751.0	ND	70	10-120	4	65	
Surrogate: 2-Fluorophenol	*2176*			*ug/kg dry*	*3501.9*		*62*	*21-120*			
Surrogate: Phenol-d6	*2402*			*ug/kg dry*	*3501.9*		*69*	*19-120*			
Surrogate: Nitrobenzene-d5	*1099*			*ug/kg dry*	*1751.0*		*63*	*13-120*			
Surrogate: 2-Fluorobiphenyl	*1284*			*ug/kg dry*	*1751.0*		*73*	*17-120*			
Surrogate: 2,4,6-Tribromophenol	*3460*			*ug/kg dry*	*3501.9*		*99*	*30-120*			
Surrogate: p-Terphenyl-dl4	*1747*			*ug/kg dry*	*1751.0*		*100*	*41-120*			

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Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 22, 2016

Laboratory Certifications

Code	Description	Number	Expires
LA	Louisiana	02069	06/30/2016
NC	North Carolina	381	12/31/2016
NELAC	FL DOH (Non-Pot. Water, Solids) Eff:: 07/01/2015	E87315	06/30/2016
SC	South Carolina	98011001	06/30/2016
TX	Texas	T104704397-08-TX	03/31/2016
VA	Virginia	1340	12/14/2016

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Attention: Mr. Bob Schoepke

January 22, 2016

Legend

Definition of Laboratory Terms

ND - Not Detected at levels equal to or greater than the MDL
BRL - Not Detected at levels equal to or greater than the RL
RL - Reporting Limit **MDL** - Method Detection Limit
SOP - Method run per ASI Standard Operating Procedure
CFU - Colony Forming Units
DF - Dilution Factor **TIC** - Tentatively Identified Compound
***** - Analyte not included in the NELAC list of certified analytes.

Sample Information

N-Nitrosodiphenylamine breaks down to diphenylamine in the GCMS; both analytes are reported as N-Nitrososdiphenylamine. ASI is not NELAC certified for N-Nitrososdiphenylamine.

Phthalic acid and phthalic anhydride are reported as dimethyl phthalate

Maleic acid and maleic anhydride are reported as dimethyl malate

1,2-Diphenylhydrazine breaks down to azobenzene in the GCMS; both analytes are reported as azobenzene

Definition of Qualifiers

J Estimated value less than Reporting Limit (RL) but greater than Method Detection Limit(MDL) (CLP J-Flag).

Note: Unless otherwise noted, all results are reported on an as received basis.

ANALYTICAL SERVICES, INC.

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Attention: Mr. Bob Schoepke

January 22, 2016

234155

CHAIN OF CUSTODY RECORD

ASI ANALYTICAL SERVICES, INC.
ENVIRONMENTAL MONITORING & LABORATORY ANALYSIS
110 TECHNOLOGY PARKWAY NORCROSS, GA 30092
(770) 734-4200 : FAX (770) 734-4201 : www.asi-lab.com

PAGE: 1 OF 1

CLIENT NAME: ATC

CLIENT ADDRESS/PHONE NUMBER/FAX NUMBER: 8725 E Millbrook Rd Raleigh NC 27604 919-871-0999

REPORT TO: Gregory Osborn CC: Ashley Winkelmann

REQUESTED COMPLETION DATE: PO #:

PROJECT NAME/STATE: Six-Alchivale / NC

PROJECT #: 045, 16031.0010

ANALYSIS REQUESTED

DATE	TIME	MATRIX CODE*	COMPOSITE OR GRAB	SAMPLE IDENTIFICATION	# of containers	VOCs	TPH
1-8-2016	9:00	S	X	SVE-1 (17-19)	1	X	
1/8/16	900	S	X	Duplicate	1		X

CONTAINER TYPE: G

PRESERVATION

SAMPLED BY AND TITLE: Robert Gordon State Scientist DATE/TIME: 1-8-2016 / 4:00 AM

RELINQUISHED BY: Robert Gordon DATE/TIME: 1-11-2016 / 7:00

RECEIVED BY: DATE/TIME:

RELINQUISHED BY: DATE/TIME:

RECEIVED BY LAB: DATE/TIME: 1/13/16 0950

SAMPLE SHIPPED VIA: UPS FEDEX USPS COURIER CLIENT OTHER

pH checked: Yes No N/A Temp Blank: Yes No N/A Temperature: Min: 1.4 Max: Custody Seal: Intact Broken Not Present # of Coolers: Cooler ID:

FOR LAB USE ONLY

LAB #: HZ40197

Entered into LIMS: CAL

8027151917897

Revised 2013-10-31

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ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

LOG-IN CHECKLIST **Printed: 1/22/2016 2:08:43PM**

Attn: Mr. Bob Schoepke

Client: Safety-Kleen Corporation - Elgin
Project: Archdale, NC
Date Received: 01/12/16 09:50

Work Order: AZA0197
Logged In By: Charles Hawks

OBSERVATIONS

#Samples: 2 **#Containers:** 2

Minimum Temp(C): 1.0 **Maximum Temp(C):** 1.0 **Custody Seal(s) Used:** Yes

CHECKLIST ITEMS

COC included with Samples	YES
Sample Container(s) Intact	YES
Chain of Custody Complete	YES
Sample Container(s) Match COC	YES
Custody seal Intact	YES
Temperature in Compliance	YES
Sufficient Sample Volume for Analysis	YES
Zero Headspace Maintained for VOA Analyses	YES
Samples labeled preserved (If Applicable)	YES
Samples received within Allowable Hold Times	YES
Samples Received on Ice	YES
Preservation Confirmed	YES

Comments:

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ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Laboratory Report

Prepared For:

Safety-Kleen Corporation - Elgin
1502 E. Villa Street
Elgin, IL 60120

Attention: Mr. Bob Schoepke

Report Number: AZA0397

January 27, 2016

Project: Archdale, NC

Project #:45.16031.0010

We appreciate the opportunity to provide the analytical support for your project. 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.

Approved:

Signature

This report may not be reproduced, except in full, without written approval from Analytical Services, Inc.
Analytical Services, Inc. certifies that the following analytical results meet all requirements of the National Environmental Laboratory Accreditation Conference(NELAC).
All test results relate only to the samples analyzed.

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Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 27, 2016

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	AZA0397-01	Ground Water	01/14/16 13:50	01/16/16 10:40
MW-2	AZA0397-02	Ground Water	01/14/16 15:40	01/16/16 10:40
MW-3	AZA0397-03	Ground Water	01/15/16 09:30	01/16/16 10:40
MW-5	AZA0397-04	Ground Water	01/14/16 15:00	01/16/16 10:40
MW-6	AZA0397-05	Ground Water	01/14/16 10:00	01/16/16 10:40
MW-7	AZA0397-06	Ground Water	01/13/16 14:35	01/16/16 10:40
MW-8	AZA0397-07	Ground Water	01/13/16 13:10	01/16/16 10:40
MW-9	AZA0397-08	Ground Water	01/14/16 11:10	01/16/16 10:40
MW-10	AZA0397-09	Ground Water	01/14/16 12:05	01/16/16 10:40
SVE-1	AZA0397-10	Ground Water	01/15/16 10:10	01/16/16 10:40
OW-1	AZA0397-11	Ground Water	01/14/16 16:30	01/16/16 10:40
OW-2	AZA0397-12	Ground Water	01/15/16 11:20	01/16/16 10:40
OW-3	AZA0397-13	Ground Water	01/14/16 17:00	01/16/16 10:40
OW-4	AZA0397-14	Ground Water	01/15/16 10:45	01/16/16 10:40
Duplicate-1	AZA0397-15	Ground Water	01/14/16 13:55	01/16/16 10:40
Trip Blank	AZA0397-16	Water	01/15/16 00:00	01/16/16 10:40

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Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 27, 2016

Report No.: AZA0397
Client ID: MW-1
Date/Time Sampled: 1/14/2016 1:50:00PM
Matrix: Ground Water

Project: Archdale, NC
Lab Number ID: AZA0397-01
Date/Time Received: 1/16/2016 10:40:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Volatile Organic Compounds by EPA 8260											
Acetone	ND	100	4.9	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:24	6010321	ART
Acrolein	ND	50	1.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:24	6010321	ART
Acrylonitrile	ND	50	1.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:24	6010321	ART
Allyl Chloride (3-Chloropropylene)	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:24	6010321	ART
Benzene	ND	2.0	0.2	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:24	6010321	ART
Bromobenzene	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:24	6010321	ART
Bromochloromethane	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:24	6010321	ART
Bromodichloromethane	ND	10	0.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:24	6010321	ART
Bromoform	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:24	6010321	ART
Bromomethane	ND	10	0.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:24	6010321	ART
n-Butylbenzene	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:24	6010321	ART
sec-Butylbenzene	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:24	6010321	ART
tert-Butylbenzene	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:24	6010321	ART
Carbon Disulfide	ND	10	0.9	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:24	6010321	ART
Carbon Tetrachloride	ND	2.0	0.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:24	6010321	ART
Chlorobenzene	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:24	6010321	ART
1-Chlorobutane	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:24	6010321	ART
Chloroethane	ND	5.0	0.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:24	6010321	ART
2-Chloroethyl Vinyl Ether	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:24	6010321	ART
Chloroform	ND	2.0	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:24	6010321	ART
Chloromethane	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:24	6010321	ART
2-Chlorotoluene	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:24	6010321	ART
4-Chlorotoluene	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:24	6010321	ART
Dibromochloromethane	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:24	6010321	ART
1,2-Dibromo-3-chloropropane	ND	10	2.0	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:24	6010321	ART
1,2-Dibromoethane	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:24	6010321	ART
Dibromomethane	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:24	6010321	ART
1,2-Dichlorobenzene	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:24	6010321	ART
1,3-Dichlorobenzene	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:24	6010321	ART
1,4-Dichlorobenzene	ND	10	0.2	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:24	6010321	ART
trans-1,4-Dichloro-2-butene	ND	5.0	1.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:24	6010321	ART
Dichlorodifluoromethane	ND	10	0.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:24	6010321	ART

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ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Safety-Kleen Corporation - Elgin
1502 E. Villa Street
Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 27, 2016

Report No.: AZA0397
Client ID: MW-1
Date/Time Sampled: 1/14/2016 1:50:00PM
Matrix: Ground Water

Project: Archdale, NC
Lab Number ID: AZA0397-01
Date/Time Received: 1/16/2016 10:40:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Volatile Organic Compounds by EPA 8260											
1,1-Dichloroethane	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:24	6010321	ART
1,2-Dichloroethane	ND	2.0	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:24	6010321	ART
1,1-Dichloroethene	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:24	6010321	ART
cis-1,2-Dichloroethene	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:24	6010321	ART
trans-1,2-Dichloroethene	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:24	6010321	ART
1,2-Dichloropropane	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:24	6010321	ART
1,3-Dichloropropane	ND	2.0	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:24	6010321	ART
2,2-Dichloropropane	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:24	6010321	ART
1,1-Dichloropropene	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:24	6010321	ART
cis-1,3-Dichloropropene	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:24	6010321	ART
trans-1,3-Dichloropropene	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:24	6010321	ART
Ethylbenzene	ND	2.0	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:24	6010321	ART
Ethyl Methacrylate	ND	10	0.9	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:24	6010321	ART
Hexachlorobutadiene	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:24	6010321	ART
p-Isopropyltoluene	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:24	6010321	ART
Hexachloroethane	ND	10	1.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:24	6010321	ART
Iodomethane	ND	10	0.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:24	6010321	ART
Isopropylbenzene	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:24	6010321	ART
Methacrylonitrile	ND	10	1.2	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:24	6010321	ART
Methyl Acrylate	ND	10	0.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:24	6010321	ART
Methyl Butyl Ketone (2-Hexanone)	ND	10	0.9	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:24	6010321	ART
Methylene Chloride	ND	5.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:24	6010321	ART
Methyl Ethyl Ketone (2-Butanone)	ND	100	1.1	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:24	6010321	ART
Methyl Methacrylate	ND	10	0.9	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:24	6010321	ART
4-Methyl-2-pentanone (MIBK)	ND	10	1.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:24	6010321	ART
Methyl-tert-Butyl Ether	ND	10	0.9	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:24	6010321	ART
Naphthalene	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:24	6010321	ART
2-Nitropropane	ND	10	1.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:24	6010321	ART
Propionitrile (Ethyl Cyanide)	ND	20	1.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:24	6010321	ART
n-Propylbenzene	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:24	6010321	ART
Styrene	ND	5.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:24	6010321	ART
1,1,1,2-Tetrachloroethane	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:24	6010321	ART

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Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 27, 2016

Report No.: AZA0397
Client ID: MW-1
Date/Time Sampled: 1/14/2016 1:50:00PM
Matrix: Ground Water

Project: Archdale, NC
Lab Number ID: AZA0397-01
Date/Time Received: 1/16/2016 10:40:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Volatile Organic Compounds by EPA 8260											
1,1,2,2-Tetrachloroethane	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:24	6010321	ART
Tetrachloroethene	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:24	6010321	ART
Toluene	ND	2.0	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:24	6010321	ART
1,2,3-Trichlorobenzene	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:24	6010321	ART
1,2,4-Trichlorobenzene	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:24	6010321	ART
1,1,1-Trichloroethane	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:24	6010321	ART
1,1,2-Trichloroethane	ND	2.0	0.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:24	6010321	ART
Trichloroethene	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:24	6010321	ART
Trichlorofluoromethane	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:24	6010321	ART
1,2,3-Trichloropropane	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:24	6010321	ART
1,2,4-Trimethylbenzene	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:24	6010321	ART
1,3,5-Trimethylbenzene	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:24	6010321	ART
Vinyl Acetate	ND	10	0.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:24	6010321	ART
Vinyl Chloride	ND	2.0	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:24	6010321	ART
m+p-Xylene	ND	5.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:24	6010321	ART
o-Xylene	ND	5.0	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:24	6010321	ART
Xylenes, total	ND	5.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:24	6010321	ART
Surrogate: Dibromofluoromethane	*94 %*		*80-120*		*EPA 8260B*			01/18/16 08:30	01/18/16 12:24	*6010321*	
Surrogate: 1,2-Dichloroethane-d4	*99 %*		*78-120*		*EPA 8260B*			01/18/16 08:30	01/18/16 12:24	*6010321*	
Surrogate: Toluene-d8	*97 %*		*80-120*		*EPA 8260B*			01/18/16 08:30	01/18/16 12:24	*6010321*	
Surrogate: 4-Bromofluorobenzene	*96 %*		*80-120*		*EPA 8260B*			01/18/16 08:30	01/18/16 12:24	*6010321*	
Semivolatile Organic Compounds by EPA 8270											
Acenaphthene	ND	10	2.2	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:33	6010366	JRS
Acenaphthylene	ND	10	2.1	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:33	6010366	JRS
Anthracene	ND	10	1.8	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:33	6010366	JRS
Benzo(ghi)perylene	ND	10	2.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:33	6010366	JRS
Benzoic acid	ND	50	3.5	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:33	6010366	JRS
Benzyl alcohol	ND	20	3.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:33	6010366	JRS
Benzyl butyl phthalate	ND	10	3.2	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:33	6010366	JRS
4-Bromophenyl phenyl ether	ND	10	1.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:33	6010366	JRS
Di-n-butyl phthalate	ND	10	2.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:33	6010366	JRS

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Safety-Kleen Corporation - Elgin
1502 E. Villa Street
Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 27, 2016

Report No.: AZA0397
Client ID: MW-1
Date/Time Sampled: 1/14/2016 1:50:00PM
Matrix: Ground Water

Project: Archdale, NC
Lab Number ID: AZA0397-01
Date/Time Received: 1/16/2016 10:40:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Semivolatile Organic Compounds by EPA 8270											
4-Chloroaniline	ND	20	3.1	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:33	6010366	JRS
Bis(2-chloroethoxy)methane	ND	10	3.7	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:33	6010366	JRS
Bis(2-chloroethyl)ether	ND	10	4.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:33	6010366	JRS
Bis(2-chloroisopropyl)ether	ND	10	3.7	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:33	6010366	JRS
4-Chloro-3-methylphenol	ND	10	2.3	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:33	6010366	JRS
2-Chloronaphthalene	ND	10	2.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:33	6010366	JRS
2-Chlorophenol	ND	10	3.5	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:33	6010366	JRS
4-Chlorophenyl phenyl ether	ND	10	1.8	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:33	6010366	JRS
3,3´-Dichlorobenzidine	ND	20	2.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:33	6010366	JRS
2,4-Dichlorophenol	ND	10	2.8	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:33	6010366	JRS
Diethyl phthalate	ND	10	2.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:33	6010366	JRS
2,4-Dimethylphenol	ND	10	2.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:33	6010366	JRS
Dimethyl phthalate	ND	10	1.7	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:33	6010366	JRS
4,6-Dinitro-2-methylphenol	ND	50	3.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:33	6010366	JRS
2,4-Dinitrophenol	ND	50	2.8	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:33	6010366	JRS
2,4-Dinitrotoluene	ND	20	2.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:33	6010366	JRS
2,6-Dinitrotoluene	ND	20	1.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:33	6010366	JRS
Bis(2-ethylhexyl)phthalate	ND	10	3.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:33	6010366	JRS
Fluoranthene	ND	10	2.2	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:33	6010366	JRS
Fluorene	ND	10	1.7	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:33	6010366	JRS
Hexachlorobutadiene	ND	10	2.7	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:33	6010366	JRS
Hexachlorocyclopentadiene	ND	10	3.3	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:33	6010366	JRS
Hexachloroethane	ND	10	3.1	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:33	6010366	JRS
Isophorone	ND	10	3.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:33	6010366	JRS
2-Methylnaphthalene	ND	10	2.5	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:33	6010366	JRS
2-Methylphenol (o-cresol)	ND	10	6.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:33	6010366	JRS
3+4-Methylphenol (m+p-cresol)	ND	10	5.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:33	6010366	JRS
2-Nitroaniline	ND	50	2.5	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:33	6010366	JRS
3-Nitroaniline	ND	50	2.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:33	6010366	JRS
4-Nitroaniline	ND	50	3.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:33	6010366	JRS
Nitrobenzene	ND	10	3.6	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:33	6010366	JRS
2-Nitrophenol	ND	50	3.1	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:33	6010366	JRS

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Date/Time Sampled: 1/14/2016 1:50:00PM
Matrix: Ground Water

Project: Archdale, NC
Lab Number ID: AZA0397-01
Date/Time Received: 1/16/2016 10:40:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Semivolatile Organic Compounds by EPA 8270											
4-Nitrophenol	ND	50	1.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:33	6010366	JRS
N-Nitrosodimethylamine	ND	10	3.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:33	6010366	JRS
N-Nitrosodiphenylamine/Diphenylamine	ND	10	1.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:33	6010366	JRS
N-Nitrosodi-n-propylamine	ND	10	3.6	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:33	6010366	JRS
Di-n-octyl phthalate	ND	10	4.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:33	6010366	JRS
Phenanthrene	ND	10	1.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:33	6010366	JRS
Phenol	ND	10	1.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:33	6010366	JRS
Pyrene	ND	10	2.6	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:33	6010366	JRS
1,2,4-Trichlorobenzene	ND	10	2.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:33	6010366	JRS
2,4,5-Trichlorophenol	ND	10	2.3	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:33	6010366	JRS
2,4,6-Trichlorophenol	ND	10	3.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:33	6010366	JRS
Surrogate: 2-Fluorophenol	*38 %*		*11-120*		*EPA 8270D*			01/20/16 08:30	01/20/16 18:33	*6010366*	
Surrogate: Phenol-d6	*23 %*		*10-120*		*EPA 8270D*			01/20/16 08:30	01/20/16 18:33	*6010366*	
Surrogate: Nitrobenzene-d5	*66 %*		*15-120*		*EPA 8270D*			01/20/16 08:30	01/20/16 18:33	*6010366*	
Surrogate: 2-Fluorobiphenyl	*79 %*		*23-120*		*EPA 8270D*			01/20/16 08:30	01/20/16 18:33	*6010366*	
Surrogate: 2,4,6-Tribromophenol	*88 %*		*36-120*		*EPA 8270D*			01/20/16 08:30	01/20/16 18:33	*6010366*	
Surrogate: p-Terphenyl-dl4	*77 %*		*53-121*		*EPA 8270D*			01/20/16 08:30	01/20/16 18:33	*6010366*	
Benzo(a)anthracene	ND	1.0	0.05	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 15:04	6010366	JRS
Benzo(b)fluoranthene	ND	1.0	0.02	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 15:04	6010366	JRS
Benzo(k)fluoranthene	ND	1.0	0.05	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 15:04	6010366	JRS
Chrysene	ND	1.0	0.05	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 15:04	6010366	JRS
Dibenzo(a,h)anthracene	ND	1.0	0.14	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 15:04	6010366	JRS
Benzo(a)pyrene	ND	1.0	0.06	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 15:04	6010366	JRS
Indeno(1,2,3-cd)pyrene	ND	1.0	0.11	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 15:04	6010366	JRS
Naphthalene	ND	1.0	0.06	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 15:04	6010366	JRS
Hexachlorobenzene	ND	1.0	0.06	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 15:04	6010366	JRS
Pentachlorophenol	ND	1.0	0.11	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 15:04	6010366	JRS

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Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092
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Safety-Kleen Corporation - Elgin
1502 E. Villa Street
Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 27, 2016

Report No.: AZA0397
Client ID: MW-2
Date/Time Sampled: 1/14/2016 3:40:00PM
Matrix: Ground Water

Project: Archdale, NC
Lab Number ID: AZA0397-02
Date/Time Received: 1/16/2016 10:40:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Volatile Organic Compounds by EPA 8260											
Acetone	ND	100	4.9	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:50	6010321	ART
Acrolein	ND	50	1.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:50	6010321	ART
Acrylonitrile	ND	50	1.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:50	6010321	ART
Allyl Chloride (3-Chloropropylene)	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:50	6010321	ART
Benzene	ND	2.0	0.2	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:50	6010321	ART
Bromobenzene	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:50	6010321	ART
Bromochloromethane	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:50	6010321	ART
Bromodichloromethane	ND	10	0.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:50	6010321	ART
Bromoform	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:50	6010321	ART
Bromomethane	ND	10	0.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:50	6010321	ART
n-Butylbenzene	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:50	6010321	ART
sec-Butylbenzene	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:50	6010321	ART
tert-Butylbenzene	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:50	6010321	ART
Carbon Disulfide	ND	10	0.9	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:50	6010321	ART
Carbon Tetrachloride	ND	2.0	0.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:50	6010321	ART
Chlorobenzene	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:50	6010321	ART
1-Chlorobutane	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:50	6010321	ART
Chloroethane	ND	5.0	0.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:50	6010321	ART
2-Chloroethyl Vinyl Ether	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:50	6010321	ART
Chloroform	ND	2.0	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:50	6010321	ART
Chloromethane	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:50	6010321	ART
2-Chlorotoluene	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:50	6010321	ART
4-Chlorotoluene	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:50	6010321	ART
Dibromochloromethane	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:50	6010321	ART
1,2-Dibromo-3-chloropropane	ND	10	2.0	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:50	6010321	ART
1,2-Dibromoethane	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:50	6010321	ART
Dibromomethane	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:50	6010321	ART
1,2-Dichlorobenzene	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:50	6010321	ART
1,3-Dichlorobenzene	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:50	6010321	ART
1,4-Dichlorobenzene	ND	10	0.2	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:50	6010321	ART
trans-1,4-Dichloro-2-butene	ND	5.0	1.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:50	6010321	ART
Dichlorodifluoromethane	ND	10	0.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:50	6010321	ART

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Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 27, 2016

Report No.: AZA0397
Client ID: MW-2
Date/Time Sampled: 1/14/2016 3:40:00PM
Matrix: Ground Water

Project: Archdale, NC
Lab Number ID: AZA0397-02
Date/Time Received: 1/16/2016 10:40:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Volatile Organic Compounds by EPA 8260											
1,1-Dichloroethane	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:50	6010321	ART
1,2-Dichloroethane	ND	2.0	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:50	6010321	ART
1,1-Dichloroethene	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:50	6010321	ART
cis-1,2-Dichloroethene	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:50	6010321	ART
trans-1,2-Dichloroethene	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:50	6010321	ART
1,2-Dichloropropane	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:50	6010321	ART
1,3-Dichloropropane	ND	2.0	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:50	6010321	ART
2,2-Dichloropropane	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:50	6010321	ART
1,1-Dichloropropene	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:50	6010321	ART
cis-1,3-Dichloropropene	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:50	6010321	ART
trans-1,3-Dichloropropene	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:50	6010321	ART
Ethylbenzene	ND	2.0	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:50	6010321	ART
Ethyl Methacrylate	ND	10	0.9	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:50	6010321	ART
Hexachlorobutadiene	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:50	6010321	ART
p-Isopropyltoluene	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:50	6010321	ART
Hexachloroethane	ND	10	1.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:50	6010321	ART
Iodomethane	ND	10	0.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:50	6010321	ART
Isopropylbenzene	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:50	6010321	ART
Methacrylonitrile	ND	10	1.2	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:50	6010321	ART
Methyl Acrylate	ND	10	0.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:50	6010321	ART
Methyl Butyl Ketone (2-Hexanone)	ND	10	0.9	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:50	6010321	ART
Methylene Chloride	ND	5.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:50	6010321	ART
Methyl Ethyl Ketone (2-Butanone)	ND	100	1.1	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:50	6010321	ART
Methyl Methacrylate	ND	10	0.9	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:50	6010321	ART
4-Methyl-2-pentanone (MIBK)	ND	10	1.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:50	6010321	ART
Methyl-tert-Butyl Ether	ND	10	0.9	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:50	6010321	ART
Naphthalene	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:50	6010321	ART
2-Nitropropane	ND	10	1.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:50	6010321	ART
Propionitrile (Ethyl Cyanide)	ND	20	1.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:50	6010321	ART
n-Propylbenzene	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:50	6010321	ART
Styrene	ND	5.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:50	6010321	ART
1,1,1,2-Tetrachloroethane	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:50	6010321	ART

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Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 27, 2016

Report No.: AZA0397
Client ID: MW-2
Date/Time Sampled: 1/14/2016 3:40:00PM
Matrix: Ground Water

Project: Archdale, NC
Lab Number ID: AZA0397-02
Date/Time Received: 1/16/2016 10:40:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Volatile Organic Compounds by EPA 8260											
1,1,2,2-Tetrachloroethane	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:50	6010321	ART
Tetrachloroethene	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:50	6010321	ART
Toluene	ND	2.0	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:50	6010321	ART
1,2,3-Trichlorobenzene	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:50	6010321	ART
1,2,4-Trichlorobenzene	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:50	6010321	ART
1,1,1-Trichloroethane	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:50	6010321	ART
1,1,2-Trichloroethane	ND	2.0	0.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:50	6010321	ART
Trichloroethene	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:50	6010321	ART
Trichlorofluoromethane	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:50	6010321	ART
1,2,3-Trichloropropane	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:50	6010321	ART
1,2,4-Trimethylbenzene	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:50	6010321	ART
1,3,5-Trimethylbenzene	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:50	6010321	ART
Vinyl Acetate	ND	10	0.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:50	6010321	ART
Vinyl Chloride	ND	2.0	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:50	6010321	ART
m+p-Xylene	ND	5.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:50	6010321	ART
o-Xylene	ND	5.0	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:50	6010321	ART
Xylenes, total	ND	5.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 12:50	6010321	ART
Surrogate: Dibromofluoromethane	*94 %*		*80-120*		*EPA 8260B*			01/18/16 08:30	01/18/16 12:50	*6010321*	
Surrogate: 1,2-Dichloroethane-d4	*103 %*		*78-120*		*EPA 8260B*			01/18/16 08:30	01/18/16 12:50	*6010321*	
Surrogate: Toluene-d8	*97 %*		*80-120*		*EPA 8260B*			01/18/16 08:30	01/18/16 12:50	*6010321*	
Surrogate: 4-Bromofluorobenzene	*96 %*		*80-120*		*EPA 8260B*			01/18/16 08:30	01/18/16 12:50	*6010321*	
Semivolatile Organic Compounds by EPA 8270											
Acenaphthene	ND	10	2.2	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:56	6010366	JRS
Acenaphthylene	ND	10	2.1	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:56	6010366	JRS
Anthracene	ND	10	1.8	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:56	6010366	JRS
Benzo(ghi)perylene	ND	10	2.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:56	6010366	JRS
Benzoic acid	ND	50	3.5	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:56	6010366	JRS
Benzyl alcohol	ND	20	3.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:56	6010366	JRS
Benzyl butyl phthalate	ND	10	3.2	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:56	6010366	JRS
4-Bromophenyl phenyl ether	ND	10	1.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:56	6010366	JRS
Di-n-butyl phthalate	ND	10	2.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:56	6010366	JRS

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Lab Number ID: AZA0397-02
Date/Time Received: 1/16/2016 10:40:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Semivolatile Organic Compounds by EPA 8270											
4-Chloroaniline	ND	20	3.1	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:56	6010366	JRS
Bis(2-chloroethoxy)methane	ND	10	3.7	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:56	6010366	JRS
Bis(2-chloroethyl)ether	ND	10	4.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:56	6010366	JRS
Bis(2-chloroisopropyl)ether	ND	10	3.7	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:56	6010366	JRS
4-Chloro-3-methylphenol	ND	10	2.3	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:56	6010366	JRS
2-Chloronaphthalene	ND	10	2.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:56	6010366	JRS
2-Chlorophenol	ND	10	3.5	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:56	6010366	JRS
4-Chlorophenyl phenyl ether	ND	10	1.8	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:56	6010366	JRS
3,3´-Dichlorobenzidine	ND	20	2.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:56	6010366	JRS
2,4-Dichlorophenol	ND	10	2.8	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:56	6010366	JRS
Diethyl phthalate	ND	10	2.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:56	6010366	JRS
2,4-Dimethylphenol	ND	10	2.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:56	6010366	JRS
Dimethyl phthalate	ND	10	1.7	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:56	6010366	JRS
4,6-Dinitro-2-methylphenol	6.0	50	3.0	ug/L	EPA 8270D	J	1	01/20/16 08:30	01/20/16 18:56	6010366	JRS
2,4-Dinitrophenol	ND	50	2.8	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:56	6010366	JRS
2,4-Dinitrotoluene	ND	20	2.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:56	6010366	JRS
2,6-Dinitrotoluene	ND	20	1.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:56	6010366	JRS
Bis(2-ethylhexyl)phthalate	ND	10	3.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:56	6010366	JRS
Fluoranthene	ND	10	2.2	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:56	6010366	JRS
Fluorene	ND	10	1.7	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:56	6010366	JRS
Hexachlorobutadiene	ND	10	2.7	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:56	6010366	JRS
Hexachlorocyclopentadiene	ND	10	3.3	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:56	6010366	JRS
Hexachloroethane	ND	10	3.1	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:56	6010366	JRS
Isophorone	ND	10	3.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:56	6010366	JRS
2-Methylnaphthalene	ND	10	2.5	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:56	6010366	JRS
2-Methylphenol (o-cresol)	ND	10	6.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:56	6010366	JRS
3+4-Methylphenol (m+p-cresol)	ND	10	5.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:56	6010366	JRS
2-Nitroaniline	ND	50	2.5	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:56	6010366	JRS
3-Nitroaniline	ND	50	2.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:56	6010366	JRS
4-Nitroaniline	ND	50	3.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:56	6010366	JRS
Nitrobenzene	ND	10	3.6	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:56	6010366	JRS
2-Nitrophenol	ND	50	3.1	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:56	6010366	JRS

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ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Safety-Kleen Corporation - Elgin
1502 E. Villa Street
Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 27, 2016

Report No.: AZA0397
Client ID: MW-2
Date/Time Sampled: 1/14/2016 3:40:00PM
Matrix: Ground Water

Project: Archdale, NC
Lab Number ID: AZA0397-02
Date/Time Received: 1/16/2016 10:40:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Semivolatile Organic Compounds by EPA 8270											
4-Nitrophenol	ND	50	1.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:56	6010366	JRS
N-Nitrosodimethylamine	ND	10	3.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:56	6010366	JRS
N-Nitrosodiphenylamine/Diphenylamine	ND	10	1.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:56	6010366	JRS
N-Nitrosodi-n-propylamine	ND	10	3.6	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:56	6010366	JRS
Di-n-octyl phthalate	ND	10	4.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:56	6010366	JRS
Phenanthrene	ND	10	1.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:56	6010366	JRS
Phenol	ND	10	1.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:56	6010366	JRS
Pyrene	ND	10	2.6	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:56	6010366	JRS
1,2,4-Trichlorobenzene	ND	10	2.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:56	6010366	JRS
2,4,5-Trichlorophenol	ND	10	2.3	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:56	6010366	JRS
2,4,6-Trichlorophenol	ND	10	3.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 18:56	6010366	JRS
Surrogate: 2-Fluorophenol	*44 %*		*11-120*		*EPA 8270D*			01/20/16 08:30	01/20/16 18:56	*6010366*	
Surrogate: Phenol-d6	*28 %*		*10-120*		*EPA 8270D*			01/20/16 08:30	01/20/16 18:56	*6010366*	
Surrogate: Nitrobenzene-d5	*71 %*		*15-120*		*EPA 8270D*			01/20/16 08:30	01/20/16 18:56	*6010366*	
Surrogate: 2-Fluorobiphenyl	*81 %*		*23-120*		*EPA 8270D*			01/20/16 08:30	01/20/16 18:56	*6010366*	
Surrogate: 2,4,6-Tribromophenol	*101 %*		*36-120*		*EPA 8270D*			01/20/16 08:30	01/20/16 18:56	*6010366*	
Surrogate: p-Terphenyl-dl4	*95 %*		*53-121*		*EPA 8270D*			01/20/16 08:30	01/20/16 18:56	*6010366*	
Benzo(a)anthracene	ND	1.0	0.05	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 15:29	6010366	JRS
Benzo(b)fluoranthene	ND	1.0	0.02	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 15:29	6010366	JRS
Benzo(k)fluoranthene	ND	1.0	0.05	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 15:29	6010366	JRS
Chrysene	ND	1.0	0.05	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 15:29	6010366	JRS
Dibenzo(a,h)anthracene	ND	1.0	0.14	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 15:29	6010366	JRS
Benzo(a)pyrene	ND	1.0	0.06	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 15:29	6010366	JRS
Indeno(1,2,3-cd)pyrene	ND	1.0	0.11	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 15:29	6010366	JRS
Naphthalene	ND	1.0	0.06	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 15:29	6010366	JRS
Hexachlorobenzene	ND	1.0	0.06	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 15:29	6010366	JRS
Pentachlorophenol	ND	1.0	0.11	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 15:29	6010366	JRS

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Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Safety-Kleen Corporation - Elgin
1502 E. Villa Street
Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 27, 2016

Report No.: AZA0397
Client ID: MW-3
Date/Time Sampled: 1/15/2016 9:30:00AM
Matrix: Ground Water

Project: Archdale, NC
Lab Number ID: AZA0397-03
Date/Time Received: 1/16/2016 10:40:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Volatile Organic Compounds by EPA 8260											
Acetone	ND	100	4.9	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:16	6010321	ART
Acrolein	ND	50	1.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:16	6010321	ART
Acrylonitrile	ND	50	1.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:16	6010321	ART
Allyl Chloride (3-Chloropropylene)	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:16	6010321	ART
Benzene	ND	2.0	0.2	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:16	6010321	ART
Bromobenzene	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:16	6010321	ART
Bromochloromethane	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:16	6010321	ART
Bromodichloromethane	ND	10	0.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:16	6010321	ART
Bromoform	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:16	6010321	ART
Bromomethane	ND	10	0.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:16	6010321	ART
n-Butylbenzene	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:16	6010321	ART
sec-Butylbenzene	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:16	6010321	ART
tert-Butylbenzene	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:16	6010321	ART
Carbon Disulfide	ND	10	0.9	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:16	6010321	ART
Carbon Tetrachloride	ND	2.0	0.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:16	6010321	ART
Chlorobenzene	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:16	6010321	ART
1-Chlorobutane	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:16	6010321	ART
Chloroethane	ND	5.0	0.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:16	6010321	ART
2-Chloroethyl Vinyl Ether	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:16	6010321	ART
Chloroform	ND	2.0	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:16	6010321	ART
Chloromethane	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:16	6010321	ART
2-Chlorotoluene	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:16	6010321	ART
4-Chlorotoluene	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:16	6010321	ART
Dibromochloromethane	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:16	6010321	ART
1,2-Dibromo-3-chloropropane	ND	10	2.0	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:16	6010321	ART
1,2-Dibromoethane	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:16	6010321	ART
Dibromomethane	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:16	6010321	ART
1,2-Dichlorobenzene	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:16	6010321	ART
1,3-Dichlorobenzene	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:16	6010321	ART
1,4-Dichlorobenzene	ND	10	0.2	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:16	6010321	ART
trans-1,4-Dichloro-2-butene	ND	5.0	1.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:16	6010321	ART
Dichlorodifluoromethane	ND	10	0.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:16	6010321	ART

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Safety-Kleen Corporation - Elgin
1502 E. Villa Street
Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 27, 2016

Report No.: AZA0397
Client ID: MW-3
Date/Time Sampled: 1/15/2016 9:30:00AM
Matrix: Ground Water

Project: Archdale, NC
Lab Number ID: AZA0397-03
Date/Time Received: 1/16/2016 10:40:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Volatile Organic Compounds by EPA 8260											
1,1-Dichloroethane	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:16	6010321	ART
1,2-Dichloroethane	ND	2.0	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:16	6010321	ART
1,1-Dichloroethene	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:16	6010321	ART
cis-1,2-Dichloroethene	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:16	6010321	ART
trans-1,2-Dichloroethene	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:16	6010321	ART
1,2-Dichloropropane	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:16	6010321	ART
1,3-Dichloropropane	ND	2.0	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:16	6010321	ART
2,2-Dichloropropane	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:16	6010321	ART
1,1-Dichloropropene	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:16	6010321	ART
cis-1,3-Dichloropropene	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:16	6010321	ART
trans-1,3-Dichloropropene	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:16	6010321	ART
Ethylbenzene	ND	2.0	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:16	6010321	ART
Ethyl Methacrylate	ND	10	0.9	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:16	6010321	ART
Hexachlorobutadiene	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:16	6010321	ART
p-Isopropyltoluene	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:16	6010321	ART
Hexachloroethane	ND	10	1.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:16	6010321	ART
Iodomethane	ND	10	0.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:16	6010321	ART
Isopropylbenzene	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:16	6010321	ART
Methacrylonitrile	ND	10	1.2	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:16	6010321	ART
Methyl Acrylate	ND	10	0.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:16	6010321	ART
Methyl Butyl Ketone (2-Hexanone)	ND	10	0.9	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:16	6010321	ART
Methylene Chloride	ND	5.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:16	6010321	ART
Methyl Ethyl Ketone (2-Butanone)	ND	100	1.1	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:16	6010321	ART
Methyl Methacrylate	ND	10	0.9	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:16	6010321	ART
4-Methyl-2-pentanone (MIBK)	ND	10	1.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:16	6010321	ART
Methyl-tert-Butyl Ether	ND	10	0.9	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:16	6010321	ART
Naphthalene	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:16	6010321	ART
2-Nitropropane	ND	10	1.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:16	6010321	ART
Propionitrile (Ethyl Cyanide)	ND	20	1.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:16	6010321	ART
n-Propylbenzene	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:16	6010321	ART
Styrene	ND	5.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:16	6010321	ART
1,1,1,2-Tetrachloroethane	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:16	6010321	ART

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Attention: Mr. Bob Schoepke

January 27, 2016

Report No.: AZA0397
Client ID: MW-3
Date/Time Sampled: 1/15/2016 9:30:00AM
Matrix: Ground Water

Project: Archdale, NC
Lab Number ID: AZA0397-03
Date/Time Received: 1/16/2016 10:40:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Volatile Organic Compounds by EPA 8260											
1,1,2,2-Tetrachloroethane	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:16	6010321	ART
Tetrachloroethene	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:16	6010321	ART
Toluene	ND	2.0	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:16	6010321	ART
1,2,3-Trichlorobenzene	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:16	6010321	ART
1,2,4-Trichlorobenzene	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:16	6010321	ART
1,1,1-Trichloroethane	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:16	6010321	ART
1,1,2-Trichloroethane	ND	2.0	0.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:16	6010321	ART
Trichloroethene	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:16	6010321	ART
Trichlorofluoromethane	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:16	6010321	ART
1,2,3-Trichloropropane	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:16	6010321	ART
1,2,4-Trimethylbenzene	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:16	6010321	ART
1,3,5-Trimethylbenzene	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:16	6010321	ART
Vinyl Acetate	ND	10	0.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:16	6010321	ART
Vinyl Chloride	ND	2.0	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:16	6010321	ART
m+p-Xylene	ND	5.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:16	6010321	ART
o-Xylene	ND	5.0	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:16	6010321	ART
Xylenes, total	ND	5.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:16	6010321	ART
Surrogate: Dibromofluoromethane	*92 %*		*80-120*		*EPA 8260B*			01/18/16 08:30	01/18/16 13:16	*6010321*	
Surrogate: 1,2-Dichloroethane-d4	*99 %*		*78-120*		*EPA 8260B*			01/18/16 08:30	01/18/16 13:16	*6010321*	
Surrogate: Toluene-d8	*97 %*		*80-120*		*EPA 8260B*			01/18/16 08:30	01/18/16 13:16	*6010321*	
Surrogate: 4-Bromofluorobenzene	*99 %*		*80-120*		*EPA 8260B*			01/18/16 08:30	01/18/16 13:16	*6010321*	
Semivolatile Organic Compounds by EPA 8270											
Acenaphthene	ND	10	2.2	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:19	6010366	JRS
Acenaphthylene	ND	10	2.1	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:19	6010366	JRS
Anthracene	ND	10	1.8	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:19	6010366	JRS
Benzo(ghi)perylene	ND	10	2.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:19	6010366	JRS
Benzoic acid	ND	50	3.5	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:19	6010366	JRS
Benzyl alcohol	ND	20	3.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:19	6010366	JRS
Benzyl butyl phthalate	ND	10	3.2	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:19	6010366	JRS
4-Bromophenyl phenyl ether	ND	10	1.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:19	6010366	JRS
Di-n-butyl phthalate	ND	10	2.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:19	6010366	JRS

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ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Safety-Kleen Corporation - Elgin
1502 E. Villa Street
Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 27, 2016

Report No.: AZA0397
Client ID: MW-3
Date/Time Sampled: 1/15/2016 9:30:00AM
Matrix: Ground Water

Project: Archdale, NC
Lab Number ID: AZA0397-03
Date/Time Received: 1/16/2016 10:40:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Semivolatile Organic Compounds by EPA 8270											
4-Chloroaniline	ND	20	3.1	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:19	6010366	JRS
Bis(2-chloroethoxy)methane	ND	10	3.7	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:19	6010366	JRS
Bis(2-chloroethyl)ether	ND	10	4.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:19	6010366	JRS
Bis(2-chloroisopropyl)ether	ND	10	3.7	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:19	6010366	JRS
4-Chloro-3-methylphenol	ND	10	2.3	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:19	6010366	JRS
2-Chloronaphthalene	ND	10	2.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:19	6010366	JRS
2-Chlorophenol	ND	10	3.5	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:19	6010366	JRS
4-Chlorophenyl phenyl ether	ND	10	1.8	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:19	6010366	JRS
3,3´-Dichlorobenzidine	ND	20	2.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:19	6010366	JRS
2,4-Dichlorophenol	ND	10	2.8	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:19	6010366	JRS
Diethyl phthalate	ND	10	2.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:19	6010366	JRS
2,4-Dimethylphenol	ND	10	2.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:19	6010366	JRS
Dimethyl phthalate	ND	10	1.7	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:19	6010366	JRS
4,6-Dinitro-2-methylphenol	ND	50	3.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:19	6010366	JRS
2,4-Dinitrophenol	ND	50	2.8	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:19	6010366	JRS
2,4-Dinitrotoluene	ND	20	2.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:19	6010366	JRS
2,6-Dinitrotoluene	ND	20	1.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:19	6010366	JRS
Bis(2-ethylhexyl)phthalate	ND	10	3.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:19	6010366	JRS
Fluoranthene	ND	10	2.2	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:19	6010366	JRS
Fluorene	ND	10	1.7	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:19	6010366	JRS
Hexachlorobutadiene	ND	10	2.7	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:19	6010366	JRS
Hexachlorocyclopentadiene	ND	10	3.3	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:19	6010366	JRS
Hexachloroethane	ND	10	3.1	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:19	6010366	JRS
Isophorone	ND	10	3.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:19	6010366	JRS
2-Methylnaphthalene	ND	10	2.5	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:19	6010366	JRS
2-Methylphenol (o-cresol)	ND	10	6.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:19	6010366	JRS
3+4-Methylphenol (m+p-cresol)	ND	10	5.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:19	6010366	JRS
2-Nitroaniline	ND	50	2.5	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:19	6010366	JRS
3-Nitroaniline	ND	50	2.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:19	6010366	JRS
4-Nitroaniline	ND	50	3.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:19	6010366	JRS
Nitrobenzene	ND	10	3.6	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:19	6010366	JRS
2-Nitrophenol	ND	50	3.1	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:19	6010366	JRS

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Safety-Kleen Corporation - Elgin
1502 E. Villa Street
Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 27, 2016

Report No.: AZA0397
Client ID: MW-3
Date/Time Sampled: 1/15/2016 9:30:00AM
Matrix: Ground Water

Project: Archdale, NC
Lab Number ID: AZA0397-03
Date/Time Received: 1/16/2016 10:40:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Semivolatile Organic Compounds by EPA 8270											
4-Nitrophenol	ND	50	1.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:19	6010366	JRS
N-Nitrosodimethylamine	ND	10	3.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:19	6010366	JRS
N-Nitrosodiphenylamine/Diphenylamine	ND	10	1.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:19	6010366	JRS
N-Nitrosodi-n-propylamine	ND	10	3.6	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:19	6010366	JRS
Di-n-octyl phthalate	ND	10	4.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:19	6010366	JRS
Phenanthrene	ND	10	1.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:19	6010366	JRS
Phenol	ND	10	1.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:19	6010366	JRS
Pyrene	ND	10	2.6	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:19	6010366	JRS
1,2,4-Trichlorobenzene	ND	10	2.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:19	6010366	JRS
2,4,5-Trichlorophenol	ND	10	2.3	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:19	6010366	JRS
2,4,6-Trichlorophenol	ND	10	3.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:19	6010366	JRS
Surrogate: 2-Fluorophenol	*38 %*		*11-120*		*EPA 8270D*			01/20/16 08:30	01/20/16 19:19	*6010366*	
Surrogate: Phenol-d6	*25 %*		*10-120*		*EPA 8270D*			01/20/16 08:30	01/20/16 19:19	*6010366*	
Surrogate: Nitrobenzene-d5	*62 %*		*15-120*		*EPA 8270D*			01/20/16 08:30	01/20/16 19:19	*6010366*	
Surrogate: 2-Fluorobiphenyl	*77 %*		*23-120*		*EPA 8270D*			01/20/16 08:30	01/20/16 19:19	*6010366*	
Surrogate: 2,4,6-Tribromophenol	*99 %*		*36-120*		*EPA 8270D*			01/20/16 08:30	01/20/16 19:19	*6010366*	
Surrogate: p-Terphenyl-dl4	*98 %*		*53-121*		*EPA 8270D*			01/20/16 08:30	01/20/16 19:19	*6010366*	
Benzo(a)anthracene	ND	1.0	0.05	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 15:55	6010366	JRS
Benzo(b)fluoranthene	ND	1.0	0.02	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 15:55	6010366	JRS
Benzo(k)fluoranthene	ND	1.0	0.05	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 15:55	6010366	JRS
Chrysene	ND	1.0	0.05	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 15:55	6010366	JRS
Dibenzo(a,h)anthracene	ND	1.0	0.14	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 15:55	6010366	JRS
Benzo(a)pyrene	ND	1.0	0.06	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 15:55	6010366	JRS
Indeno(1,2,3-cd)pyrene	ND	1.0	0.11	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 15:55	6010366	JRS
Naphthalene	ND	1.0	0.06	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 15:55	6010366	JRS
Hexachlorobenzene	ND	1.0	0.06	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 15:55	6010366	JRS
Pentachlorophenol	ND	1.0	0.11	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 15:55	6010366	JRS

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Safety-Kleen Corporation - Elgin
1502 E. Villa Street
Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 27, 2016

Report No.: AZA0397
Client ID: MW-5
Date/Time Sampled: 1/14/2016 3:00:00PM
Matrix: Ground Water

Project: Archdale, NC
Lab Number ID: AZA0397-04
Date/Time Received: 1/16/2016 10:40:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Volatile Organic Compounds by EPA 8260											
Acetone	ND	100	4.9	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 11:57	6010321	ART
Acrolein	ND	50	1.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 11:57	6010321	ART
Acrylonitrile	ND	50	1.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 11:57	6010321	ART
Allyl Chloride (3-Chloropropylene)	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 11:57	6010321	ART
Benzene	5.8	2.0	0.2	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 11:57	6010321	ART
Bromobenzene	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 11:57	6010321	ART
Bromochloromethane	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 11:57	6010321	ART
Bromodichloromethane	ND	10	0.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 11:57	6010321	ART
Bromoform	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 11:57	6010321	ART
Bromomethane	ND	10	0.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 11:57	6010321	ART
n-Butylbenzene	6.2	10	0.5	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 11:57	6010321	ART
sec-Butylbenzene	5.8	10	0.3	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 11:57	6010321	ART
tert-Butylbenzene	0.7	10	0.3	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 11:57	6010321	ART
Carbon Disulfide	ND	10	0.9	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 11:57	6010321	ART
Carbon Tetrachloride	ND	2.0	0.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 11:57	6010321	ART
Chlorobenzene	480	100	3.7	ug/L	EPA 8260B		10	01/18/16 10:00	01/18/16 19:49	6010321	ART
1-Chlorobutane	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 11:57	6010321	ART
Chloroethane	ND	5.0	0.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 11:57	6010321	ART
2-Chloroethyl Vinyl Ether	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 11:57	6010321	ART
Chloroform	ND	2.0	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 11:57	6010321	ART
Chloromethane	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 11:57	6010321	ART
2-Chlorotoluene	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 11:57	6010321	ART
4-Chlorotoluene	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 11:57	6010321	ART
Dibromochloromethane	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 11:57	6010321	ART
1,2-Dibromo-3-chloropropane	ND	10	2.0	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 11:57	6010321	ART
1,2-Dibromoethane	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 11:57	6010321	ART
Dibromomethane	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 11:57	6010321	ART
1,2-Dichlorobenzene	0.8	10	0.5	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 11:57	6010321	ART
1,3-Dichlorobenzene	1.2	10	0.3	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 11:57	6010321	ART
1,4-Dichlorobenzene	18	10	0.2	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 11:57	6010321	ART
trans-1,4-Dichloro-2-butene	ND	5.0	1.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 11:57	6010321	ART
Dichlorodifluoromethane	ND	10	0.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 11:57	6010321	ART

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Attention: Mr. Bob Schoepke

January 27, 2016

Report No.: AZA0397
Client ID: MW-5
Date/Time Sampled: 1/14/2016 3:00:00PM
Matrix: Ground Water

Project: Archdale, NC
Lab Number ID: AZA0397-04
Date/Time Received: 1/16/2016 10:40:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Volatile Organic Compounds by EPA 8260											
1,1-Dichloroethane	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 11:57	6010321	ART
1,2-Dichloroethane	ND	2.0	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 11:57	6010321	ART
1,1-Dichloroethene	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 11:57	6010321	ART
cis-1,2-Dichloroethene	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 11:57	6010321	ART
trans-1,2-Dichloroethene	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 11:57	6010321	ART
1,2-Dichloropropane	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 11:57	6010321	ART
1,3-Dichloropropane	ND	2.0	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 11:57	6010321	ART
2,2-Dichloropropane	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 11:57	6010321	ART
1,1-Dichloropropene	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 11:57	6010321	ART
cis-1,3-Dichloropropene	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 11:57	6010321	ART
trans-1,3-Dichloropropene	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 11:57	6010321	ART
Ethylbenzene	1.2	2.0	0.3	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 11:57	6010321	ART
Ethyl Methacrylate	ND	10	0.9	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 11:57	6010321	ART
Hexachlorobutadiene	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 11:57	6010321	ART
p-Isopropyltoluene	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 11:57	6010321	ART
Hexachloroethane	ND	10	1.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 11:57	6010321	ART
Iodomethane	ND	10	0.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 11:57	6010321	ART
Isopropylbenzene	2.2	10	0.3	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 11:57	6010321	ART
Methacrylonitrile	ND	10	1.2	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 11:57	6010321	ART
Methyl Acrylate	ND	10	0.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 11:57	6010321	ART
Methyl Butyl Ketone (2-Hexanone)	ND	10	0.9	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 11:57	6010321	ART
Methylene Chloride	ND	5.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 11:57	6010321	ART
Methyl Ethyl Ketone (2-Butanone)	ND	100	1.1	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 11:57	6010321	ART
Methyl Methacrylate	ND	10	0.9	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 11:57	6010321	ART
4-Methyl-2-pentanone (MIBK)	ND	10	1.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 11:57	6010321	ART
Methyl-tert-Butyl Ether	ND	10	0.9	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 11:57	6010321	ART
Naphthalene	4.5	10	0.3	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 11:57	6010321	ART
2-Nitropropane	ND	10	1.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 11:57	6010321	ART
Propionitrile (Ethyl Cyanide)	ND	20	1.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 11:57	6010321	ART
n-Propylbenzene	4.8	10	0.3	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 11:57	6010321	ART
Styrene	ND	5.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 11:57	6010321	ART
1,1,1,2-Tetrachloroethane	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 11:57	6010321	ART

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January 27, 2016

Report No.: AZA0397
Client ID: MW-5
Date/Time Sampled: 1/14/2016 3:00:00PM
Matrix: Ground Water

Project: Archdale, NC
Lab Number ID: AZA0397-04
Date/Time Received: 1/16/2016 10:40:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Volatile Organic Compounds by EPA 8260											
1,1,2,2-Tetrachloroethane	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 11:57	6010321	ART
Tetrachloroethene	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 11:57	6010321	ART
Toluene	ND	2.0	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 11:57	6010321	ART
1,2,3-Trichlorobenzene	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 11:57	6010321	ART
1,2,4-Trichlorobenzene	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 11:57	6010321	ART
1,1,1-Trichloroethane	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 11:57	6010321	ART
1,1,2-Trichloroethane	ND	2.0	0.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 11:57	6010321	ART
Trichloroethene	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 11:57	6010321	ART
Trichlorofluoromethane	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 11:57	6010321	ART
1,2,3-Trichloropropane	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 11:57	6010321	ART
1,2,4-Trimethylbenzene	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 11:57	6010321	ART
1,3,5-Trimethylbenzene	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 11:57	6010321	ART
Vinyl Acetate	ND	10	0.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 11:57	6010321	ART
Vinyl Chloride	ND	2.0	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 11:57	6010321	ART
m+p-Xylene	ND	5.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 11:57	6010321	ART
o-Xylene	ND	5.0	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 11:57	6010321	ART
Xylenes, total	ND	5.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 11:57	6010321	ART
Surrogate: Dibromofluoromethane	*91 %*		*80-120*		*EPA 8260B*			01/18/16 08:30	01/18/16 11:57	*6010321*	
Surrogate: Dibromofluoromethane	*91 %*		*80-120*		*EPA 8260B*			01/18/16 10:00	01/18/16 19:49	*6010321*	
Surrogate: 1,2-Dichloroethane-d4	*100 %*		*78-120*		*EPA 8260B*			01/18/16 08:30	01/18/16 11:57	*6010321*	
Surrogate: 1,2-Dichloroethane-d4	*101 %*		*78-120*		*EPA 8260B*			01/18/16 10:00	01/18/16 19:49	*6010321*	
Surrogate: Toluene-d8	*96 %*		*80-120*		*EPA 8260B*			01/18/16 08:30	01/18/16 11:57	*6010321*	
Surrogate: Toluene-d8	*95 %*		*80-120*		*EPA 8260B*			01/18/16 10:00	01/18/16 19:49	*6010321*	
Surrogate: 4-Bromofluorobenzene	*95 %*		*80-120*		*EPA 8260B*			01/18/16 08:30	01/18/16 11:57	*6010321*	
Surrogate: 4-Bromofluorobenzene	*97 %*		*80-120*		*EPA 8260B*			01/18/16 10:00	01/18/16 19:49	*6010321*	
Semivolatile Organic Compounds by EPA 8270											
Acenaphthene	ND	10	2.2	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:41	6010366	JRS
Acenaphthylene	ND	10	2.1	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:41	6010366	JRS
Anthracene	ND	10	1.8	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:41	6010366	JRS
Benzo(ghi)perylene	ND	10	2.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:41	6010366	JRS
Benzoic acid	ND	50	3.5	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:41	6010366	JRS

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ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Safety-Kleen Corporation - Elgin
1502 E. Villa Street
Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 27, 2016

Report No.: AZA0397
Client ID: MW-5
Date/Time Sampled: 1/14/2016 3:00:00PM
Matrix: Ground Water

Project: Archdale, NC
Lab Number ID: AZA0397-04
Date/Time Received: 1/16/2016 10:40:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Semivolatile Organic Compounds by EPA 8270											
Benzyl alcohol	ND	20	3.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:41	6010366	JRS
Benzyl butyl phthalate	ND	10	3.2	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:41	6010366	JRS
4-Bromophenyl phenyl ether	ND	10	1.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:41	6010366	JRS
Di-n-butyl phthalate	ND	10	2.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:41	6010366	JRS
4-Chloroaniline	ND	20	3.1	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:41	6010366	JRS
Bis(2-chloroethoxy)methane	ND	10	3.7	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:41	6010366	JRS
Bis(2-chloroethyl)ether	ND	10	4.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:41	6010366	JRS
Bis(2-chloroisopropyl)ether	ND	10	3.7	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:41	6010366	JRS
4-Chloro-3-methylphenol	ND	10	2.3	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:41	6010366	JRS
2-Chloronaphthalene	ND	10	2.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:41	6010366	JRS
2-Chlorophenol	ND	10	3.5	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:41	6010366	JRS
4-Chlorophenyl phenyl ether	ND	10	1.8	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:41	6010366	JRS
3,3´-Dichlorobenzidine	ND	20	2.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:41	6010366	JRS
2,4-Dichlorophenol	ND	10	2.8	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:41	6010366	JRS
Diethyl phthalate	ND	10	2.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:41	6010366	JRS
2,4-Dimethylphenol	ND	10	2.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:41	6010366	JRS
Dimethyl phthalate	ND	10	1.7	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:41	6010366	JRS
4,6-Dinitro-2-methylphenol	ND	50	3.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:41	6010366	JRS
2,4-Dinitrophenol	ND	50	2.8	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:41	6010366	JRS
2,4-Dinitrotoluene	ND	20	2.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:41	6010366	JRS
2,6-Dinitrotoluene	ND	20	1.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:41	6010366	JRS
Bis(2-ethylhexyl)phthalate	ND	10	3.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:41	6010366	JRS
Fluoranthene	ND	10	2.2	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:41	6010366	JRS
Fluorene	ND	10	1.7	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:41	6010366	JRS
Hexachlorobutadiene	ND	10	2.7	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:41	6010366	JRS
Hexachlorocyclopentadiene	ND	10	3.3	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:41	6010366	JRS
Hexachloroethane	ND	10	3.1	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:41	6010366	JRS
Isophorone	ND	10	3.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:41	6010366	JRS
2-Methylnaphthalene	ND	10	2.5	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:41	6010366	JRS
2-Methylphenol (o-cresol)	ND	10	6.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:41	6010366	JRS
3+4-Methylphenol (m+p-cresol)	ND	10	5.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:41	6010366	JRS
2-Nitroaniline	ND	50	2.5	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:41	6010366	JRS

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Safety-Kleen Corporation - Elgin
1502 E. Villa Street
Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 27, 2016

Report No.: AZA0397
Client ID: MW-5
Date/Time Sampled: 1/14/2016 3:00:00PM
Matrix: Ground Water

Project: Archdale, NC
Lab Number ID: AZA0397-04
Date/Time Received: 1/16/2016 10:40:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Semivolatile Organic Compounds by EPA 8270											
3-Nitroaniline	ND	50	2.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:41	6010366	JRS
4-Nitroaniline	ND	50	3.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:41	6010366	JRS
Nitrobenzene	ND	10	3.6	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:41	6010366	JRS
2-Nitrophenol	ND	50	3.1	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:41	6010366	JRS
4-Nitrophenol	ND	50	1.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:41	6010366	JRS
N-Nitrosodimethylamine	ND	10	3.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:41	6010366	JRS
N-Nitrosodiphenylamine/Diphenylamine	ND	10	1.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:41	6010366	JRS
N-Nitrosodi-n-propylamine	ND	10	3.6	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:41	6010366	JRS
Di-n-octyl phthalate	ND	10	4.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:41	6010366	JRS
Phenanthrene	ND	10	1.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:41	6010366	JRS
Phenol	ND	10	1.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:41	6010366	JRS
Pyrene	ND	10	2.6	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:41	6010366	JRS
1,2,4-Trichlorobenzene	ND	10	2.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:41	6010366	JRS
2,4,5-Trichlorophenol	ND	10	2.3	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:41	6010366	JRS
2,4,6-Trichlorophenol	ND	10	3.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 19:41	6010366	JRS
Surrogate: 2-Fluorophenol	*39 %*		*11-120*		*EPA 8270D*			01/20/16 08:30	01/20/16 19:41	*6010366*	
Surrogate: Phenol-d6	*26 %*		*10-120*		*EPA 8270D*			01/20/16 08:30	01/20/16 19:41	*6010366*	
Surrogate: Nitrobenzene-d5	*70 %*		*15-120*		*EPA 8270D*			01/20/16 08:30	01/20/16 19:41	*6010366*	
Surrogate: 2-Fluorobiphenyl	*84 %*		*23-120*		*EPA 8270D*			01/20/16 08:30	01/20/16 19:41	*6010366*	
Surrogate: 2,4,6-Tribromophenol	*102 %*		*36-120*		*EPA 8270D*			01/20/16 08:30	01/20/16 19:41	*6010366*	
Surrogate: p-Terphenyl-dl4	*85 %*		*53-121*		*EPA 8270D*			01/20/16 08:30	01/20/16 19:41	*6010366*	
Benzo(a)anthracene	ND	1.0	0.05	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 16:21	6010366	JRS
Benzo(b)fluoranthene	ND	1.0	0.02	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 16:21	6010366	JRS
Benzo(k)fluoranthene	ND	1.0	0.05	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 16:21	6010366	JRS
Chrysene	ND	1.0	0.05	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 16:21	6010366	JRS
Dibenzo(a,h)anthracene	ND	1.0	0.14	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 16:21	6010366	JRS
Benzo(a)pyrene	ND	1.0	0.06	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 16:21	6010366	JRS
Indeno(1,2,3-cd)pyrene	ND	1.0	0.11	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 16:21	6010366	JRS
Naphthalene	2.7	1.0	0.06	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 16:21	6010366	JRS
Hexachlorobenzene	ND	1.0	0.06	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 16:21	6010366	JRS
Pentachlorophenol	ND	1.0	0.11	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 16:21	6010366	JRS

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Safety-Kleen Corporation - Elgin
1502 E. Villa Street
Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 27, 2016

Report No.: AZA0397
Client ID: MW-6
Date/Time Sampled: 1/14/2016 10:00:00AM
Matrix: Ground Water

Project: Archdale, NC
Lab Number ID: AZA0397-05
Date/Time Received: 1/16/2016 10:40:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Volatile Organic Compounds by EPA 8260											
Acetone	ND	100	4.9	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:42	6010321	ART
Acrolein	ND	50	1.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:42	6010321	ART
Acrylonitrile	ND	50	1.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:42	6010321	ART
Allyl Chloride (3-Chloropropylene)	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:42	6010321	ART
Benzene	ND	2.0	0.2	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:42	6010321	ART
Bromobenzene	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:42	6010321	ART
Bromochloromethane	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:42	6010321	ART
Bromodichloromethane	ND	10	0.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:42	6010321	ART
Bromoform	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:42	6010321	ART
Bromomethane	ND	10	0.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:42	6010321	ART
n-Butylbenzene	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:42	6010321	ART
sec-Butylbenzene	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:42	6010321	ART
tert-Butylbenzene	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:42	6010321	ART
Carbon Disulfide	ND	10	0.9	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:42	6010321	ART
Carbon Tetrachloride	ND	2.0	0.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:42	6010321	ART
Chlorobenzene	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:42	6010321	ART
1-Chlorobutane	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:42	6010321	ART
Chloroethane	ND	5.0	0.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:42	6010321	ART
2-Chloroethyl Vinyl Ether	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:42	6010321	ART
Chloroform	ND	2.0	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:42	6010321	ART
Chloromethane	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:42	6010321	ART
2-Chlorotoluene	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:42	6010321	ART
4-Chlorotoluene	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:42	6010321	ART
Dibromochloromethane	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:42	6010321	ART
1,2-Dibromo-3-chloropropane	ND	10	2.0	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:42	6010321	ART
1,2-Dibromoethane	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:42	6010321	ART
Dibromomethane	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:42	6010321	ART
1,2-Dichlorobenzene	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:42	6010321	ART
1,3-Dichlorobenzene	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:42	6010321	ART
1,4-Dichlorobenzene	ND	10	0.2	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:42	6010321	ART
trans-1,4-Dichloro-2-butene	ND	5.0	1.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:42	6010321	ART
Dichlorodifluoromethane	ND	10	0.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:42	6010321	ART

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Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 27, 2016

Report No.: AZA0397
Client ID: MW-6
Date/Time Sampled: 1/14/2016 10:00:00AM
Matrix: Ground Water

Project: Archdale, NC
Lab Number ID: AZA0397-05
Date/Time Received: 1/16/2016 10:40:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Volatile Organic Compounds by EPA 8260											
1,1-Dichloroethane	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:42	6010321	ART
1,2-Dichloroethane	ND	2.0	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:42	6010321	ART
1,1-Dichloroethene	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:42	6010321	ART
cis-1,2-Dichloroethene	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:42	6010321	ART
trans-1,2-Dichloroethene	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:42	6010321	ART
1,2-Dichloropropane	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:42	6010321	ART
1,3-Dichloropropane	ND	2.0	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:42	6010321	ART
2,2-Dichloropropane	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:42	6010321	ART
1,1-Dichloropropene	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:42	6010321	ART
cis-1,3-Dichloropropene	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:42	6010321	ART
trans-1,3-Dichloropropene	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:42	6010321	ART
Ethylbenzene	ND	2.0	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:42	6010321	ART
Ethyl Methacrylate	ND	10	0.9	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:42	6010321	ART
Hexachlorobutadiene	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:42	6010321	ART
p-Isopropyltoluene	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:42	6010321	ART
Hexachloroethane	ND	10	1.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:42	6010321	ART
Iodomethane	ND	10	0.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:42	6010321	ART
Isopropylbenzene	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:42	6010321	ART
Methacrylonitrile	ND	10	1.2	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:42	6010321	ART
Methyl Acrylate	ND	10	0.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:42	6010321	ART
Methyl Butyl Ketone (2-Hexanone)	ND	10	0.9	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:42	6010321	ART
Methylene Chloride	ND	5.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:42	6010321	ART
Methyl Ethyl Ketone (2-Butanone)	ND	100	1.1	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:42	6010321	ART
Methyl Methacrylate	ND	10	0.9	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:42	6010321	ART
4-Methyl-2-pentanone (MIBK)	ND	10	1.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:42	6010321	ART
Methyl-tert-Butyl Ether	ND	10	0.9	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:42	6010321	ART
Naphthalene	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:42	6010321	ART
2-Nitropropane	ND	10	1.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:42	6010321	ART
Propionitrile (Ethyl Cyanide)	ND	20	1.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:42	6010321	ART
n-Propylbenzene	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:42	6010321	ART
Styrene	ND	5.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:42	6010321	ART
1,1,1,2-Tetrachloroethane	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:42	6010321	ART

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ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Safety-Kleen Corporation - Elgin
1502 E. Villa Street
Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 27, 2016

Report No.: AZA0397
Client ID: MW-6
Date/Time Sampled: 1/14/2016 10:00:00AM
Matrix: Ground Water

Project: Archdale, NC
Lab Number ID: AZA0397-05
Date/Time Received: 1/16/2016 10:40:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Volatile Organic Compounds by EPA 8260											
1,1,2,2-Tetrachloroethane	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:42	6010321	ART
Tetrachloroethene	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:42	6010321	ART
Toluene	ND	2.0	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:42	6010321	ART
1,2,3-Trichlorobenzene	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:42	6010321	ART
1,2,4-Trichlorobenzene	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:42	6010321	ART
1,1,1-Trichloroethane	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:42	6010321	ART
1,1,2-Trichloroethane	ND	2.0	0.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:42	6010321	ART
Trichloroethene	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:42	6010321	ART
Trichlorofluoromethane	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:42	6010321	ART
1,2,3-Trichloropropane	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:42	6010321	ART
1,2,4-Trimethylbenzene	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:42	6010321	ART
1,3,5-Trimethylbenzene	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:42	6010321	ART
Vinyl Acetate	ND	10	0.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:42	6010321	ART
Vinyl Chloride	ND	2.0	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:42	6010321	ART
m+p-Xylene	ND	5.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:42	6010321	ART
o-Xylene	ND	5.0	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:42	6010321	ART
Xylenes, total	ND	5.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 13:42	6010321	ART
Surrogate: Dibromofluoromethane	*93 %*		*80-120*		*EPA 8260B*			01/18/16 08:30	01/18/16 13:42	*6010321*	
Surrogate: 1,2-Dichloroethane-d4	*100 %*		*78-120*		*EPA 8260B*			01/18/16 08:30	01/18/16 13:42	*6010321*	
Surrogate: Toluene-d8	*97 %*		*80-120*		*EPA 8260B*			01/18/16 08:30	01/18/16 13:42	*6010321*	
Surrogate: 4-Bromofluorobenzene	*97 %*		*80-120*		*EPA 8260B*			01/18/16 08:30	01/18/16 13:42	*6010321*	
Semivolatile Organic Compounds by EPA 8270											
Acenaphthene	ND	10	2.2	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:04	6010366	JRS
Acenaphthylene	ND	10	2.1	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:04	6010366	JRS
Anthracene	ND	10	1.8	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:04	6010366	JRS
Benzo(ghi)perylene	ND	10	2.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:04	6010366	JRS
Benzoic acid	ND	50	3.5	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:04	6010366	JRS
Benzyl alcohol	ND	20	3.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:04	6010366	JRS
Benzyl butyl phthalate	ND	10	3.2	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:04	6010366	JRS
4-Bromophenyl phenyl ether	ND	10	1.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:04	6010366	JRS
Di-n-butyl phthalate	ND	10	2.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:04	6010366	JRS

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Safety-Kleen Corporation - Elgin
1502 E. Villa Street
Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 27, 2016

Report No.: AZA0397

Client ID: MW-6

Date/Time Sampled: 1/14/2016 10:00:00AM

Matrix: Ground Water

Project: Archdale, NC

Lab Number ID: AZA0397-05

Date/Time Received: 1/16/2016 10:40:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Semivolatile Organic Compounds by EPA 8270											
4-Chloroaniline	ND	20	3.1	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:04	6010366	JRS
Bis(2-chloroethoxy)methane	ND	10	3.7	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:04	6010366	JRS
Bis(2-chloroethyl)ether	ND	10	4.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:04	6010366	JRS
Bis(2-chloroisopropyl)ether	ND	10	3.7	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:04	6010366	JRS
4-Chloro-3-methylphenol	ND	10	2.3	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:04	6010366	JRS
2-Chloronaphthalene	ND	10	2.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:04	6010366	JRS
2-Chlorophenol	ND	10	3.5	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:04	6010366	JRS
4-Chlorophenyl phenyl ether	ND	10	1.8	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:04	6010366	JRS
3,3´-Dichlorobenzidine	ND	20	2.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:04	6010366	JRS
2,4-Dichlorophenol	ND	10	2.8	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:04	6010366	JRS
Diethyl phthalate	ND	10	2.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:04	6010366	JRS
2,4-Dimethylphenol	ND	10	2.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:04	6010366	JRS
Dimethyl phthalate	ND	10	1.7	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:04	6010366	JRS
4,6-Dinitro-2-methylphenol	ND	50	3.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:04	6010366	JRS
2,4-Dinitrophenol	ND	50	2.8	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:04	6010366	JRS
2,4-Dinitrotoluene	ND	20	2.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:04	6010366	JRS
2,6-Dinitrotoluene	ND	20	1.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:04	6010366	JRS
Bis(2-ethylhexyl)phthalate	ND	10	3.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:04	6010366	JRS
Fluoranthene	ND	10	2.2	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:04	6010366	JRS
Fluorene	ND	10	1.7	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:04	6010366	JRS
Hexachlorobutadiene	ND	10	2.7	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:04	6010366	JRS
Hexachlorocyclopentadiene	ND	10	3.3	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:04	6010366	JRS
Hexachloroethane	ND	10	3.1	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:04	6010366	JRS
Isophorone	ND	10	3.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:04	6010366	JRS
2-Methylnaphthalene	ND	10	2.5	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:04	6010366	JRS
2-Methylphenol (o-cresol)	ND	10	6.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:04	6010366	JRS
3+4-Methylphenol (m+p-cresol)	ND	10	5.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:04	6010366	JRS
2-Nitroaniline	ND	50	2.5	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:04	6010366	JRS
3-Nitroaniline	ND	50	2.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:04	6010366	JRS
4-Nitroaniline	ND	50	3.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:04	6010366	JRS
Nitrobenzene	ND	10	3.6	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:04	6010366	JRS
2-Nitrophenol	ND	50	3.1	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:04	6010366	JRS

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Environmental Monitoring & Laboratory Analysis
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Safety-Kleen Corporation - Elgin
1502 E. Villa Street
Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 27, 2016

Report No.: AZA0397
Client ID: MW-6
Date/Time Sampled: 1/14/2016 10:00:00AM
Matrix: Ground Water

Project: Archdale, NC
Lab Number ID: AZA0397-05
Date/Time Received: 1/16/2016 10:40:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Semivolatile Organic Compounds by EPA 8270											
4-Nitrophenol	ND	50	1.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:04	6010366	JRS
N-Nitrosodimethylamine	ND	10	3.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:04	6010366	JRS
N-Nitrosodiphenylamine/Diphenylamine	ND	10	1.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:04	6010366	JRS
N-Nitrosodi-n-propylamine	ND	10	3.6	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:04	6010366	JRS
Di-n-octyl phthalate	ND	10	4.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:04	6010366	JRS
Phenanthrene	ND	10	1.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:04	6010366	JRS
Phenol	ND	10	1.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:04	6010366	JRS
Pyrene	ND	10	2.6	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:04	6010366	JRS
1,2,4-Trichlorobenzene	ND	10	2.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:04	6010366	JRS
2,4,5-Trichlorophenol	ND	10	2.3	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:04	6010366	JRS
2,4,6-Trichlorophenol	ND	10	3.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:04	6010366	JRS
Surrogate: 2-Fluorophenol	*41 %*		*11-120*		*EPA 8270D*			01/20/16 08:30	01/20/16 20:04	*6010366*	
Surrogate: Phenol-d6	*25 %*		*10-120*		*EPA 8270D*			01/20/16 08:30	01/20/16 20:04	*6010366*	
Surrogate: Nitrobenzene-d5	*70 %*		*15-120*		*EPA 8270D*			01/20/16 08:30	01/20/16 20:04	*6010366*	
Surrogate: 2-Fluorobiphenyl	*79 %*		*23-120*		*EPA 8270D*			01/20/16 08:30	01/20/16 20:04	*6010366*	
Surrogate: 2,4,6-Tribromophenol	*98 %*		*36-120*		*EPA 8270D*			01/20/16 08:30	01/20/16 20:04	*6010366*	
Surrogate: p-Terphenyl-dl4	*95 %*		*53-121*		*EPA 8270D*			01/20/16 08:30	01/20/16 20:04	*6010366*	
Benzo(a)anthracene	ND	1.0	0.05	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 16:47	6010366	JRS
Benzo(b)fluoranthene	ND	1.0	0.02	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 16:47	6010366	JRS
Benzo(k)fluoranthene	ND	1.0	0.05	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 16:47	6010366	JRS
Chrysene	ND	1.0	0.05	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 16:47	6010366	JRS
Dibenzo(a,h)anthracene	ND	1.0	0.14	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 16:47	6010366	JRS
Benzo(a)pyrene	ND	1.0	0.06	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 16:47	6010366	JRS
Indeno(1,2,3-cd)pyrene	ND	1.0	0.11	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 16:47	6010366	JRS
Naphthalene	0.07	1.0	0.06	ug/L	EPA 8270D	J	1	01/20/16 08:30	01/21/16 16:47	6010366	JRS
Hexachlorobenzene	ND	1.0	0.06	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 16:47	6010366	JRS
Pentachlorophenol	ND	1.0	0.11	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 16:47	6010366	JRS

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1502 E. Villa Street
Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 27, 2016

Report No.: AZA0397
Client ID: MW-7
Date/Time Sampled: 1/13/2016 2:35:00PM
Matrix: Ground Water

Project: Archdale, NC
Lab Number ID: AZA0397-06
Date/Time Received: 1/16/2016 10:40:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Volatile Organic Compounds by EPA 8260											
Acetone	ND	100	4.9	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:08	6010321	ART
Acrolein	ND	50	1.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:08	6010321	ART
Acrylonitrile	ND	50	1.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:08	6010321	ART
Allyl Chloride (3-Chloropropylene)	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:08	6010321	ART
Benzene	ND	2.0	0.2	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:08	6010321	ART
Bromobenzene	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:08	6010321	ART
Bromochloromethane	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:08	6010321	ART
Bromodichloromethane	ND	10	0.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:08	6010321	ART
Bromoform	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:08	6010321	ART
Bromomethane	ND	10	0.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:08	6010321	ART
n-Butylbenzene	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:08	6010321	ART
sec-Butylbenzene	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:08	6010321	ART
tert-Butylbenzene	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:08	6010321	ART
Carbon Disulfide	ND	10	0.9	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:08	6010321	ART
Carbon Tetrachloride	ND	2.0	0.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:08	6010321	ART
Chlorobenzene	1.7	10	0.4	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 14:08	6010321	ART
1-Chlorobutane	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:08	6010321	ART
Chloroethane	ND	5.0	0.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:08	6010321	ART
2-Chloroethyl Vinyl Ether	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:08	6010321	ART
Chloroform	ND	2.0	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:08	6010321	ART
Chloromethane	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:08	6010321	ART
2-Chlorotoluene	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:08	6010321	ART
4-Chlorotoluene	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:08	6010321	ART
Dibromochloromethane	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:08	6010321	ART
1,2-Dibromo-3-chloropropane	ND	10	2.0	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:08	6010321	ART
1,2-Dibromoethane	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:08	6010321	ART
Dibromomethane	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:08	6010321	ART
1,2-Dichlorobenzene	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:08	6010321	ART
1,3-Dichlorobenzene	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:08	6010321	ART
1,4-Dichlorobenzene	ND	10	0.2	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:08	6010321	ART
trans-1,4-Dichloro-2-butene	ND	5.0	1.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:08	6010321	ART
Dichlorodifluoromethane	ND	10	0.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:08	6010321	ART

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ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
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Safety-Kleen Corporation - Elgin
1502 E. Villa Street
Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 27, 2016

Report No.: AZA0397
Client ID: MW-7
Date/Time Sampled: 1/13/2016 2:35:00PM
Matrix: Ground Water

Project: Archdale, NC
Lab Number ID: AZA0397-06
Date/Time Received: 1/16/2016 10:40:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Volatile Organic Compounds by EPA 8260											
1,1-Dichloroethane	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:08	6010321	ART
1,2-Dichloroethane	ND	2.0	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:08	6010321	ART
1,1-Dichloroethene	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:08	6010321	ART
cis-1,2-Dichloroethene	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:08	6010321	ART
trans-1,2-Dichloroethene	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:08	6010321	ART
1,2-Dichloropropane	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:08	6010321	ART
1,3-Dichloropropane	ND	2.0	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:08	6010321	ART
2,2-Dichloropropane	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:08	6010321	ART
1,1-Dichloropropene	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:08	6010321	ART
cis-1,3-Dichloropropene	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:08	6010321	ART
trans-1,3-Dichloropropene	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:08	6010321	ART
Ethylbenzene	ND	2.0	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:08	6010321	ART
Ethyl Methacrylate	ND	10	0.9	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:08	6010321	ART
Hexachlorobutadiene	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:08	6010321	ART
p-Isopropyltoluene	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:08	6010321	ART
Hexachloroethane	ND	10	1.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:08	6010321	ART
Iodomethane	ND	10	0.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:08	6010321	ART
Isopropylbenzene	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:08	6010321	ART
Methacrylonitrile	ND	10	1.2	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:08	6010321	ART
Methyl Acrylate	ND	10	0.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:08	6010321	ART
Methyl Butyl Ketone (2-Hexanone)	ND	10	0.9	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:08	6010321	ART
Methylene Chloride	ND	5.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:08	6010321	ART
Methyl Ethyl Ketone (2-Butanone)	ND	100	1.1	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:08	6010321	ART
Methyl Methacrylate	ND	10	0.9	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:08	6010321	ART
4-Methyl-2-pentanone (MIBK)	ND	10	1.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:08	6010321	ART
Methyl-tert-Butyl Ether	ND	10	0.9	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:08	6010321	ART
Naphthalene	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:08	6010321	ART
2-Nitropropane	ND	10	1.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:08	6010321	ART
Propionitrile (Ethyl Cyanide)	ND	20	1.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:08	6010321	ART
n-Propylbenzene	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:08	6010321	ART
Styrene	ND	5.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:08	6010321	ART
1,1,1,2-Tetrachloroethane	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:08	6010321	ART

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Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 27, 2016

Report No.: AZA0397
Client ID: MW-7
Date/Time Sampled: 1/13/2016 2:35:00PM
Matrix: Ground Water

Project: Archdale, NC
Lab Number ID: AZA0397-06
Date/Time Received: 1/16/2016 10:40:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Volatile Organic Compounds by EPA 8260											
1,1,2,2-Tetrachloroethane	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:08	6010321	ART
Tetrachloroethene	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:08	6010321	ART
Toluene	ND	2.0	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:08	6010321	ART
1,2,3-Trichlorobenzene	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:08	6010321	ART
1,2,4-Trichlorobenzene	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:08	6010321	ART
1,1,1-Trichloroethane	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:08	6010321	ART
1,1,2-Trichloroethane	ND	2.0	0.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:08	6010321	ART
Trichloroethene	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:08	6010321	ART
Trichlorofluoromethane	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:08	6010321	ART
1,2,3-Trichloropropane	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:08	6010321	ART
1,2,4-Trimethylbenzene	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:08	6010321	ART
1,3,5-Trimethylbenzene	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:08	6010321	ART
Vinyl Acetate	ND	10	0.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:08	6010321	ART
Vinyl Chloride	ND	2.0	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:08	6010321	ART
m+p-Xylene	ND	5.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:08	6010321	ART
o-Xylene	ND	5.0	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:08	6010321	ART
Xylenes, total	ND	5.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:08	6010321	ART
Surrogate: Dibromofluoromethane	*93 %*		*80-120*		*EPA 8260B*			01/18/16 08:30	01/18/16 14:08	*6010321*	
Surrogate: 1,2-Dichloroethane-d4	*102 %*		*78-120*		*EPA 8260B*			01/18/16 08:30	01/18/16 14:08	*6010321*	
Surrogate: Toluene-d8	*96 %*		*80-120*		*EPA 8260B*			01/18/16 08:30	01/18/16 14:08	*6010321*	
Surrogate: 4-Bromofluorobenzene	*98 %*		*80-120*		*EPA 8260B*			01/18/16 08:30	01/18/16 14:08	*6010321*	
Semivolatile Organic Compounds by EPA 8270											
Acenaphthene	ND	10	2.2	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:26	6010366	JRS
Acenaphthylene	ND	10	2.1	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:26	6010366	JRS
Anthracene	ND	10	1.8	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:26	6010366	JRS
Benzo(ghi)perylene	ND	10	2.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:26	6010366	JRS
Benzoic acid	ND	50	3.5	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:26	6010366	JRS
Benzyl alcohol	ND	20	3.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:26	6010366	JRS
Benzyl butyl phthalate	ND	10	3.2	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:26	6010366	JRS
4-Bromophenyl phenyl ether	ND	10	1.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:26	6010366	JRS
Di-n-butyl phthalate	ND	10	2.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:26	6010366	JRS

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Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 27, 2016

Report No.: AZA0397
Client ID: MW-7
Date/Time Sampled: 1/13/2016 2:35:00PM
Matrix: Ground Water

Project: Archdale, NC
Lab Number ID: AZA0397-06
Date/Time Received: 1/16/2016 10:40:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Semivolatile Organic Compounds by EPA 8270											
4-Chloroaniline	ND	20	3.1	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:26	6010366	JRS
Bis(2-chloroethoxy)methane	ND	10	3.7	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:26	6010366	JRS
Bis(2-chloroethyl)ether	ND	10	4.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:26	6010366	JRS
Bis(2-chloroisopropyl)ether	ND	10	3.7	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:26	6010366	JRS
4-Chloro-3-methylphenol	ND	10	2.3	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:26	6010366	JRS
2-Chloronaphthalene	ND	10	2.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:26	6010366	JRS
2-Chlorophenol	ND	10	3.5	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:26	6010366	JRS
4-Chlorophenyl phenyl ether	ND	10	1.8	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:26	6010366	JRS
3,3´-Dichlorobenzidine	ND	20	2.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:26	6010366	JRS
2,4-Dichlorophenol	ND	10	2.8	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:26	6010366	JRS
Diethyl phthalate	ND	10	2.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:26	6010366	JRS
2,4-Dimethylphenol	ND	10	2.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:26	6010366	JRS
Dimethyl phthalate	ND	10	1.7	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:26	6010366	JRS
4,6-Dinitro-2-methylphenol	ND	50	3.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:26	6010366	JRS
2,4-Dinitrophenol	ND	50	2.8	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:26	6010366	JRS
2,4-Dinitrotoluene	ND	20	2.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:26	6010366	JRS
2,6-Dinitrotoluene	ND	20	1.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:26	6010366	JRS
Bis(2-ethylhexyl)phthalate	ND	10	3.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:26	6010366	JRS
Fluoranthene	ND	10	2.2	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:26	6010366	JRS
Fluorene	ND	10	1.7	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:26	6010366	JRS
Hexachlorobutadiene	ND	10	2.7	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:26	6010366	JRS
Hexachlorocyclopentadiene	ND	10	3.3	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:26	6010366	JRS
Hexachloroethane	ND	10	3.1	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:26	6010366	JRS
Isophorone	ND	10	3.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:26	6010366	JRS
2-Methylnaphthalene	ND	10	2.5	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:26	6010366	JRS
2-Methylphenol (o-cresol)	ND	10	6.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:26	6010366	JRS
3+4-Methylphenol (m+p-cresol)	ND	10	5.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:26	6010366	JRS
2-Nitroaniline	ND	50	2.5	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:26	6010366	JRS
3-Nitroaniline	ND	50	2.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:26	6010366	JRS
4-Nitroaniline	ND	50	3.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:26	6010366	JRS
Nitrobenzene	ND	10	3.6	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:26	6010366	JRS
2-Nitrophenol	ND	50	3.1	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:26	6010366	JRS

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Client ID: MW-7
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Matrix: Ground Water

Project: Archdale, NC
Lab Number ID: AZA0397-06
Date/Time Received: 1/16/2016 10:40:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Semivolatile Organic Compounds by EPA 8270											
4-Nitrophenol	ND	50	1.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:26	6010366	JRS
N-Nitrosodimethylamine	ND	10	3.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:26	6010366	JRS
N-Nitrosodiphenylamine/Diphenylamine	ND	10	1.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:26	6010366	JRS
N-Nitrosodi-n-propylamine	ND	10	3.6	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:26	6010366	JRS
Di-n-octyl phthalate	ND	10	4.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:26	6010366	JRS
Phenanthrene	ND	10	1.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:26	6010366	JRS
Phenol	ND	10	1.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:26	6010366	JRS
Pyrene	ND	10	2.6	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:26	6010366	JRS
1,2,4-Trichlorobenzene	ND	10	2.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:26	6010366	JRS
2,4,5-Trichlorophenol	ND	10	2.3	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:26	6010366	JRS
2,4,6-Trichlorophenol	ND	10	3.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:26	6010366	JRS
Surrogate: 2-Fluorophenol	*37 %*		*11-120*		*EPA 8270D*			01/20/16 08:30	01/20/16 20:26	*6010366*	
Surrogate: Phenol-d6	*25 %*		*10-120*		*EPA 8270D*			01/20/16 08:30	01/20/16 20:26	*6010366*	
Surrogate: Nitrobenzene-d5	*49 %*		*15-120*		*EPA 8270D*			01/20/16 08:30	01/20/16 20:26	*6010366*	
Surrogate: 2-Fluorobiphenyl	*57 %*		*23-120*		*EPA 8270D*			01/20/16 08:30	01/20/16 20:26	*6010366*	
Surrogate: 2,4,6-Tribromophenol	*74 %*		*36-120*		*EPA 8270D*			01/20/16 08:30	01/20/16 20:26	*6010366*	
Surrogate: p-Terphenyl-dl4	*74 %*		*53-121*		*EPA 8270D*			01/20/16 08:30	01/20/16 20:26	*6010366*	
Benzo(a)anthracene	ND	1.0	0.05	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 17:13	6010366	JRS
Benzo(b)fluoranthene	ND	1.0	0.02	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 17:13	6010366	JRS
Benzo(k)fluoranthene	ND	1.0	0.05	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 17:13	6010366	JRS
Chrysene	ND	1.0	0.05	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 17:13	6010366	JRS
Dibenzo(a,h)anthracene	ND	1.0	0.14	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 17:13	6010366	JRS
Benzo(a)pyrene	ND	1.0	0.06	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 17:13	6010366	JRS
Indeno(1,2,3-cd)pyrene	ND	1.0	0.11	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 17:13	6010366	JRS
Naphthalene	ND	1.0	0.06	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 17:13	6010366	JRS
Hexachlorobenzene	ND	1.0	0.06	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 17:13	6010366	JRS
Pentachlorophenol	ND	1.0	0.11	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 17:13	6010366	JRS

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110 Technology Parkway, Norcross, GA 30092
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Safety-Kleen Corporation - Elgin
1502 E. Villa Street
Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 27, 2016

Report No.: AZA0397
Client ID: MW-8
Date/Time Sampled: 1/13/2016 1:10:00PM
Matrix: Ground Water

Project: Archdale, NC
Lab Number ID: AZA0397-07
Date/Time Received: 1/16/2016 10:40:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Volatile Organic Compounds by EPA 8260											
Acetone	ND	100	4.9	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:34	6010321	ART
Acrolein	ND	50	1.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:34	6010321	ART
Acrylonitrile	ND	50	1.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:34	6010321	ART
Allyl Chloride (3-Chloropropylene)	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:34	6010321	ART
Benzene	ND	2.0	0.2	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:34	6010321	ART
Bromobenzene	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:34	6010321	ART
Bromochloromethane	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:34	6010321	ART
Bromodichloromethane	ND	10	0.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:34	6010321	ART
Bromoform	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:34	6010321	ART
Bromomethane	ND	10	0.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:34	6010321	ART
n-Butylbenzene	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:34	6010321	ART
sec-Butylbenzene	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:34	6010321	ART
tert-Butylbenzene	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:34	6010321	ART
Carbon Disulfide	ND	10	0.9	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:34	6010321	ART
Carbon Tetrachloride	ND	2.0	0.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:34	6010321	ART
Chlorobenzene	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:34	6010321	ART
1-Chlorobutane	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:34	6010321	ART
Chloroethane	ND	5.0	0.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:34	6010321	ART
2-Chloroethyl Vinyl Ether	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:34	6010321	ART
Chloroform	ND	2.0	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:34	6010321	ART
Chloromethane	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:34	6010321	ART
2-Chlorotoluene	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:34	6010321	ART
4-Chlorotoluene	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:34	6010321	ART
Dibromochloromethane	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:34	6010321	ART
1,2-Dibromo-3-chloropropane	ND	10	2.0	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:34	6010321	ART
1,2-Dibromoethane	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:34	6010321	ART
Dibromomethane	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:34	6010321	ART
1,2-Dichlorobenzene	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:34	6010321	ART
1,3-Dichlorobenzene	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:34	6010321	ART
1,4-Dichlorobenzene	ND	10	0.2	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:34	6010321	ART
trans-1,4-Dichloro-2-butene	ND	5.0	1.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:34	6010321	ART
Dichlorodifluoromethane	ND	10	0.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:34	6010321	ART

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Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 27, 2016

Report No.: AZA0397
Client ID: MW-8
Date/Time Sampled: 1/13/2016 1:10:00PM
Matrix: Ground Water

Project: Archdale, NC
Lab Number ID: AZA0397-07
Date/Time Received: 1/16/2016 10:40:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Volatile Organic Compounds by EPA 8260											
1,1-Dichloroethane	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:34	6010321	ART
1,2-Dichloroethane	ND	2.0	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:34	6010321	ART
1,1-Dichloroethene	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:34	6010321	ART
cis-1,2-Dichloroethene	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:34	6010321	ART
trans-1,2-Dichloroethene	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:34	6010321	ART
1,2-Dichloropropane	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:34	6010321	ART
1,3-Dichloropropane	ND	2.0	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:34	6010321	ART
2,2-Dichloropropane	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:34	6010321	ART
1,1-Dichloropropene	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:34	6010321	ART
cis-1,3-Dichloropropene	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:34	6010321	ART
trans-1,3-Dichloropropene	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:34	6010321	ART
Ethylbenzene	ND	2.0	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:34	6010321	ART
Ethyl Methacrylate	ND	10	0.9	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:34	6010321	ART
Hexachlorobutadiene	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:34	6010321	ART
p-Isopropyltoluene	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:34	6010321	ART
Hexachloroethane	ND	10	1.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:34	6010321	ART
Iodomethane	ND	10	0.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:34	6010321	ART
Isopropylbenzene	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:34	6010321	ART
Methacrylonitrile	ND	10	1.2	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:34	6010321	ART
Methyl Acrylate	ND	10	0.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:34	6010321	ART
Methyl Butyl Ketone (2-Hexanone)	ND	10	0.9	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:34	6010321	ART
Methylene Chloride	ND	5.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:34	6010321	ART
Methyl Ethyl Ketone (2-Butanone)	ND	100	1.1	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:34	6010321	ART
Methyl Methacrylate	ND	10	0.9	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:34	6010321	ART
4-Methyl-2-pentanone (MIBK)	ND	10	1.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:34	6010321	ART
Methyl-tert-Butyl Ether	ND	10	0.9	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:34	6010321	ART
Naphthalene	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:34	6010321	ART
2-Nitropropane	ND	10	1.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:34	6010321	ART
Propionitrile (Ethyl Cyanide)	ND	20	1.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:34	6010321	ART
n-Propylbenzene	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:34	6010321	ART
Styrene	ND	5.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:34	6010321	ART
1,1,1,2-Tetrachloroethane	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:34	6010321	ART

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Safety-Kleen Corporation - Elgin
1502 E. Villa Street
Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 27, 2016

Report No.: AZA0397
Client ID: MW-8
Date/Time Sampled: 1/13/2016 1:10:00PM
Matrix: Ground Water

Project: Archdale, NC
Lab Number ID: AZA0397-07
Date/Time Received: 1/16/2016 10:40:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Volatile Organic Compounds by EPA 8260											
1,1,2,2-Tetrachloroethane	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:34	6010321	ART
Tetrachloroethene	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:34	6010321	ART
Toluene	ND	2.0	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:34	6010321	ART
1,2,3-Trichlorobenzene	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:34	6010321	ART
1,2,4-Trichlorobenzene	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:34	6010321	ART
1,1,1-Trichloroethane	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:34	6010321	ART
1,1,2-Trichloroethane	ND	2.0	0.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:34	6010321	ART
Trichloroethene	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:34	6010321	ART
Trichlorofluoromethane	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:34	6010321	ART
1,2,3-Trichloropropane	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:34	6010321	ART
1,2,4-Trimethylbenzene	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:34	6010321	ART
1,3,5-Trimethylbenzene	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:34	6010321	ART
Vinyl Acetate	ND	10	0.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:34	6010321	ART
Vinyl Chloride	ND	2.0	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:34	6010321	ART
m+p-Xylene	ND	5.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:34	6010321	ART
o-Xylene	ND	5.0	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:34	6010321	ART
Xylenes, total	ND	5.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 14:34	6010321	ART
Surrogate: Dibromofluoromethane	*93 %*		*80-120*		*EPA 8260B*			01/18/16 08:30	01/18/16 14:34	*6010321*	
Surrogate: 1,2-Dichloroethane-d4	*101 %*		*78-120*		*EPA 8260B*			01/18/16 08:30	01/18/16 14:34	*6010321*	
Surrogate: Toluene-d8	*96 %*		*80-120*		*EPA 8260B*			01/18/16 08:30	01/18/16 14:34	*6010321*	
Surrogate: 4-Bromofluorobenzene	*98 %*		*80-120*		*EPA 8260B*			01/18/16 08:30	01/18/16 14:34	*6010321*	
Semivolatile Organic Compounds by EPA 8270											
Acenaphthene	ND	10	2.2	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:49	6010366	JRS
Acenaphthylene	ND	10	2.1	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:49	6010366	JRS
Anthracene	ND	10	1.8	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:49	6010366	JRS
Benzo(ghi)perylene	ND	10	2.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:49	6010366	JRS
Benzoic acid	ND	50	3.5	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:49	6010366	JRS
Benzyl alcohol	ND	20	3.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:49	6010366	JRS
Benzyl butyl phthalate	ND	10	3.2	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:49	6010366	JRS
4-Bromophenyl phenyl ether	ND	10	1.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:49	6010366	JRS
Di-n-butyl phthalate	ND	10	2.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:49	6010366	JRS

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Lab Number ID: AZA0397-07
Date/Time Received: 1/16/2016 10:40:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Semivolatile Organic Compounds by EPA 8270											
4-Chloroaniline	ND	20	3.1	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:49	6010366	JRS
Bis(2-chloroethoxy)methane	ND	10	3.7	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:49	6010366	JRS
Bis(2-chloroethyl)ether	ND	10	4.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:49	6010366	JRS
Bis(2-chloroisopropyl)ether	ND	10	3.7	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:49	6010366	JRS
4-Chloro-3-methylphenol	ND	10	2.3	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:49	6010366	JRS
2-Chloronaphthalene	ND	10	2.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:49	6010366	JRS
2-Chlorophenol	ND	10	3.5	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:49	6010366	JRS
4-Chlorophenyl phenyl ether	ND	10	1.8	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:49	6010366	JRS
3,3´-Dichlorobenzidine	ND	20	2.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:49	6010366	JRS
2,4-Dichlorophenol	ND	10	2.8	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:49	6010366	JRS
Diethyl phthalate	ND	10	2.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:49	6010366	JRS
2,4-Dimethylphenol	ND	10	2.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:49	6010366	JRS
Dimethyl phthalate	ND	10	1.7	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:49	6010366	JRS
4,6-Dinitro-2-methylphenol	ND	50	3.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:49	6010366	JRS
2,4-Dinitrophenol	ND	50	2.8	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:49	6010366	JRS
2,4-Dinitrotoluene	ND	20	2.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:49	6010366	JRS
2,6-Dinitrotoluene	ND	20	1.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:49	6010366	JRS
Bis(2-ethylhexyl)phthalate	ND	10	3.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:49	6010366	JRS
Fluoranthene	ND	10	2.2	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:49	6010366	JRS
Fluorene	ND	10	1.7	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:49	6010366	JRS
Hexachlorobutadiene	ND	10	2.7	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:49	6010366	JRS
Hexachlorocyclopentadiene	ND	10	3.3	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:49	6010366	JRS
Hexachloroethane	ND	10	3.1	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:49	6010366	JRS
Isophorone	ND	10	3.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:49	6010366	JRS
2-Methylnaphthalene	ND	10	2.5	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:49	6010366	JRS
2-Methylphenol (o-cresol)	ND	10	6.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:49	6010366	JRS
3+4-Methylphenol (m+p-cresol)	ND	10	5.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:49	6010366	JRS
2-Nitroaniline	ND	50	2.5	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:49	6010366	JRS
3-Nitroaniline	ND	50	2.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:49	6010366	JRS
4-Nitroaniline	ND	50	3.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:49	6010366	JRS
Nitrobenzene	ND	10	3.6	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:49	6010366	JRS
2-Nitrophenol	ND	50	3.1	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:49	6010366	JRS

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ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Safety-Kleen Corporation - Elgin
1502 E. Villa Street
Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 27, 2016

Report No.: AZA0397
Client ID: MW-8
Date/Time Sampled: 1/13/2016 1:10:00PM
Matrix: Ground Water

Project: Archdale, NC
Lab Number ID: AZA0397-07
Date/Time Received: 1/16/2016 10:40:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Semivolatile Organic Compounds by EPA 8270											
4-Nitrophenol	ND	50	1.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:49	6010366	JRS
N-Nitrosodimethylamine	ND	10	3.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:49	6010366	JRS
N-Nitrosodiphenylamine/Diphenylamine	ND	10	1.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:49	6010366	JRS
N-Nitrosodi-n-propylamine	ND	10	3.6	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:49	6010366	JRS
Di-n-octyl phthalate	ND	10	4.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:49	6010366	JRS
Phenanthrene	ND	10	1.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:49	6010366	JRS
Phenol	ND	10	1.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:49	6010366	JRS
Pyrene	ND	10	2.6	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:49	6010366	JRS
1,2,4-Trichlorobenzene	ND	10	2.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:49	6010366	JRS
2,4,5-Trichlorophenol	ND	10	2.3	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:49	6010366	JRS
2,4,6-Trichlorophenol	ND	10	3.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 20:49	6010366	JRS
Surrogate: 2-Fluorophenol	*39 %*		*11-120*		*EPA 8270D*			01/20/16 08:30	01/20/16 20:49	*6010366*	
Surrogate: Phenol-d6	*25 %*		*10-120*		*EPA 8270D*			01/20/16 08:30	01/20/16 20:49	*6010366*	
Surrogate: Nitrobenzene-d5	*61 %*		*15-120*		*EPA 8270D*			01/20/16 08:30	01/20/16 20:49	*6010366*	
Surrogate: 2-Fluorobiphenyl	*73 %*		*23-120*		*EPA 8270D*			01/20/16 08:30	01/20/16 20:49	*6010366*	
Surrogate: 2,4,6-Tribromophenol	*91 %*		*36-120*		*EPA 8270D*			01/20/16 08:30	01/20/16 20:49	*6010366*	
Surrogate: p-Terphenyl-dl4	*88 %*		*53-121*		*EPA 8270D*			01/20/16 08:30	01/20/16 20:49	*6010366*	
Benzo(a)anthracene	ND	1.0	0.05	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 17:38	6010366	JRS
Benzo(b)fluoranthene	ND	1.0	0.02	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 17:38	6010366	JRS
Benzo(k)fluoranthene	ND	1.0	0.05	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 17:38	6010366	JRS
Chrysene	ND	1.0	0.05	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 17:38	6010366	JRS
Dibenzo(a,h)anthracene	ND	1.0	0.14	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 17:38	6010366	JRS
Benzo(a)pyrene	ND	1.0	0.06	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 17:38	6010366	JRS
Indeno(1,2,3-cd)pyrene	ND	1.0	0.11	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 17:38	6010366	JRS
Naphthalene	ND	1.0	0.06	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 17:38	6010366	JRS
Hexachlorobenzene	ND	1.0	0.06	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 17:38	6010366	JRS
Pentachlorophenol	ND	1.0	0.11	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 17:38	6010366	JRS

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Safety-Kleen Corporation - Elgin
1502 E. Villa Street
Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 27, 2016

Report No.: AZA0397
Client ID: MW-9
Date/Time Sampled: 1/14/2016 11:10:00AM
Matrix: Ground Water

Project: Archdale, NC
Lab Number ID: AZA0397-08
Date/Time Received: 1/16/2016 10:40:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Volatile Organic Compounds by EPA 8260											
Acetone	230	100	24	ug/L	EPA 8260B		5	01/19/16 06:00	01/19/16 07:12	6010321	ART
Acrolein	ND	50	1.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:00	6010321	ART
Acrylonitrile	ND	50	1.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:00	6010321	ART
Allyl Chloride (3-Chloropropylene)	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:00	6010321	ART
Benzene	2.5	2.0	0.2	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:00	6010321	ART
Bromobenzene	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:00	6010321	ART
Bromochloromethane	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:00	6010321	ART
Bromodichloromethane	ND	10	0.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:00	6010321	ART
Bromoform	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:00	6010321	ART
Bromomethane	ND	10	0.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:00	6010321	ART
n-Butylbenzene	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:00	6010321	ART
sec-Butylbenzene	3.8	10	0.3	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 15:00	6010321	ART
tert-Butylbenzene	5.5	10	0.3	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 15:00	6010321	ART
Carbon Disulfide	ND	10	0.9	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:00	6010321	ART
Carbon Tetrachloride	ND	2.0	0.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:00	6010321	ART
Chlorobenzene	46	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:00	6010321	ART
1-Chlorobutane	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:00	6010321	ART
Chloroethane	ND	5.0	0.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:00	6010321	ART
2-Chloroethyl Vinyl Ether	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:00	6010321	ART
Chloroform	ND	2.0	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:00	6010321	ART
Chloromethane	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:00	6010321	ART
2-Chlorotoluene	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:00	6010321	ART
4-Chlorotoluene	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:00	6010321	ART
Dibromochloromethane	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:00	6010321	ART
1,2-Dibromo-3-chloropropane	ND	10	2.0	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:00	6010321	ART
1,2-Dibromoethane	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:00	6010321	ART
Dibromomethane	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:00	6010321	ART
1,2-Dichlorobenzene	4.6	10	0.5	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 15:00	6010321	ART
1,3-Dichlorobenzene	3.2	10	0.3	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 15:00	6010321	ART
1,4-Dichlorobenzene	9.0	10	0.2	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 15:00	6010321	ART
trans-1,4-Dichloro-2-butene	ND	5.0	1.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:00	6010321	ART
Dichlorodifluoromethane	ND	10	0.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:00	6010321	ART

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Safety-Kleen Corporation - Elgin
1502 E. Villa Street
Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 27, 2016

Report No.: AZA0397
Client ID: MW-9
Date/Time Sampled: 1/14/2016 11:10:00AM
Matrix: Ground Water

Project: Archdale, NC
Lab Number ID: AZA0397-08
Date/Time Received: 1/16/2016 10:40:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Volatile Organic Compounds by EPA 8260											
1,1-Dichloroethane	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:00	6010321	ART
1,2-Dichloroethane	ND	2.0	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:00	6010321	ART
1,1-Dichloroethene	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:00	6010321	ART
cis-1,2-Dichloroethene	0.8	2.0	0.5	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 15:00	6010321	ART
trans-1,2-Dichloroethene	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:00	6010321	ART
1,2-Dichloropropane	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:00	6010321	ART
1,3-Dichloropropane	ND	2.0	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:00	6010321	ART
2,2-Dichloropropane	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:00	6010321	ART
1,1-Dichloropropene	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:00	6010321	ART
cis-1,3-Dichloropropene	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:00	6010321	ART
trans-1,3-Dichloropropene	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:00	6010321	ART
Ethylbenzene	34	2.0	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:00	6010321	ART
Ethyl Methacrylate	ND	10	0.9	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:00	6010321	ART
Hexachlorobutadiene	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:00	6010321	ART
p-Isopropyltoluene	42	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:00	6010321	ART
Hexachloroethane	ND	10	1.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:00	6010321	ART
Iodomethane	ND	10	0.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:00	6010321	ART
Isopropylbenzene	5.2	10	0.3	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 15:00	6010321	ART
Methacrylonitrile	ND	10	1.2	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:00	6010321	ART
Methyl Acrylate	ND	10	0.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:00	6010321	ART
Methyl Butyl Ketone (2-Hexanone)	ND	10	0.9	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:00	6010321	ART
Methylene Chloride	ND	5.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:00	6010321	ART
Methyl Ethyl Ketone (2-Butanone)	ND	100	1.1	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:00	6010321	ART
Methyl Methacrylate	ND	10	0.9	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:00	6010321	ART
4-Methyl-2-pentanone (MIBK)	ND	10	1.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:00	6010321	ART
Methyl-tert-Butyl Ether	ND	10	0.9	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:00	6010321	ART
Naphthalene	26	10	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:00	6010321	ART
2-Nitropropane	ND	10	1.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:00	6010321	ART
Propionitrile (Ethyl Cyanide)	ND	20	1.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:00	6010321	ART
n-Propylbenzene	1.5	10	0.3	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 15:00	6010321	ART
Styrene	ND	5.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:00	6010321	ART
1,1,1,2-Tetrachloroethane	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:00	6010321	ART

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Attention: Mr. Bob Schoepke

January 27, 2016

Report No.: AZA0397
Client ID: MW-9
Date/Time Sampled: 1/14/2016 11:10:00AM
Matrix: Ground Water

Project: Archdale, NC
Lab Number ID: AZA0397-08
Date/Time Received: 1/16/2016 10:40:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Volatile Organic Compounds by EPA 8260											
1,1,2,2-Tetrachloroethane	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:00	6010321	ART
Tetrachloroethene	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:00	6010321	ART
Toluene	1.0	2.0	0.3	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 15:00	6010321	ART
1,2,3-Trichlorobenzene	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:00	6010321	ART
1,2,4-Trichlorobenzene	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:00	6010321	ART
1,1,1-Trichloroethane	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:00	6010321	ART
1,1,2-Trichloroethane	ND	2.0	0.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:00	6010321	ART
Trichloroethene	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:00	6010321	ART
Trichlorofluoromethane	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:00	6010321	ART
1,2,3-Trichloropropane	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:00	6010321	ART
1,2,4-Trimethylbenzene	0.7	10	0.3	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 15:00	6010321	ART
1,3,5-Trimethylbenzene	87	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:00	6010321	ART
Vinyl Acetate	ND	10	0.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:00	6010321	ART
Vinyl Chloride	ND	2.0	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:00	6010321	ART
m+p-Xylene	8.9	5.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:00	6010321	ART
o-Xylene	11	5.0	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:00	6010321	ART
Xylenes, total	19	5.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:00	6010321	ART
Surrogate: Dibromofluoromethane	*94 %*		*80-120*		*EPA 8260B*			01/18/16 08:30	01/18/16 15:00	*6010321*	
Surrogate: Dibromofluoromethane	*92 %*		*80-120*		*EPA 8260B*			01/19/16 06:00	01/19/16 07:12	*6010321*	
Surrogate: 1,2-Dichloroethane-d4	*98 %*		*78-120*		*EPA 8260B*			01/19/16 06:00	01/19/16 07:12	*6010321*	
Surrogate: 1,2-Dichloroethane-d4	*101 %*		*78-120*		*EPA 8260B*			01/18/16 08:30	01/18/16 15:00	*6010321*	
Surrogate: Toluene-d8	*95 %*		*80-120*		*EPA 8260B*			01/19/16 06:00	01/19/16 07:12	*6010321*	
Surrogate: Toluene-d8	*97 %*		*80-120*		*EPA 8260B*			01/18/16 08:30	01/18/16 15:00	*6010321*	
Surrogate: 4-Bromofluorobenzene	*95 %*		*80-120*		*EPA 8260B*			01/19/16 06:00	01/19/16 07:12	*6010321*	
Surrogate: 4-Bromofluorobenzene	*94 %*		*80-120*		*EPA 8260B*			01/18/16 08:30	01/18/16 15:00	*6010321*	

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ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Safety-Kleen Corporation - Elgin
1502 E. Villa Street
Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 27, 2016

Report No.: AZA0397
Client ID: MW-9
Date/Time Sampled: 1/14/2016 11:10:00AM
Matrix: Ground Water

Project: Archdale, NC
Lab Number ID: AZA0397-08
Date/Time Received: 1/16/2016 10:40:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Semivolatile Organic Compounds by EPA 8270											
Acenaphthene	ND	10	2.2	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:12	6010366	JRS
Acenaphthylene	ND	10	2.1	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:12	6010366	JRS
Anthracene	ND	10	1.8	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:12	6010366	JRS
Benzo(ghi)perylene	ND	10	2.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:12	6010366	JRS
Benzoic acid	ND	50	3.5	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:12	6010366	JRS
Benzyl alcohol	ND	20	3.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:12	6010366	JRS
Benzyl butyl phthalate	ND	10	3.2	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:12	6010366	JRS
4-Bromophenyl phenyl ether	ND	10	1.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:12	6010366	JRS
Di-n-butyl phthalate	ND	10	2.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:12	6010366	JRS
4-Chloroaniline	ND	20	3.1	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:12	6010366	JRS
Bis(2-chloroethoxy)methane	ND	10	3.7	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:12	6010366	JRS
Bis(2-chloroethyl)ether	ND	10	4.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:12	6010366	JRS
Bis(2-chloroisopropyl)ether	ND	10	3.7	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:12	6010366	JRS
4-Chloro-3-methylphenol	ND	10	2.3	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:12	6010366	JRS
2-Chloronaphthalene	ND	10	2.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:12	6010366	JRS
2-Chlorophenol	ND	10	3.5	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:12	6010366	JRS
4-Chlorophenyl phenyl ether	ND	10	1.8	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:12	6010366	JRS
3,3´-Dichlorobenzidine	ND	20	2.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:12	6010366	JRS
2,4-Dichlorophenol	ND	10	2.8	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:12	6010366	JRS
Diethyl phthalate	4.6	10	2.0	ug/L	EPA 8270D	J	1	01/20/16 08:30	01/20/16 21:12	6010366	JRS
2,4-Dimethylphenol	ND	10	2.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:12	6010366	JRS
Dimethyl phthalate	ND	10	1.7	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:12	6010366	JRS
4,6-Dinitro-2-methylphenol	ND	50	3.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:12	6010366	JRS
2,4-Dinitrophenol	ND	50	2.8	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:12	6010366	JRS
2,4-Dinitrotoluene	ND	20	2.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:12	6010366	JRS
2,6-Dinitrotoluene	ND	20	1.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:12	6010366	JRS
Bis(2-ethylhexyl)phthalate	ND	10	3.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:12	6010366	JRS
Fluoranthene	ND	10	2.2	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:12	6010366	JRS
Fluorene	ND	10	1.7	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:12	6010366	JRS
Hexachlorobutadiene	ND	10	2.7	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:12	6010366	JRS
Hexachlorocyclopentadiene	ND	10	3.3	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:12	6010366	JRS
Hexachloroethane	ND	10	3.1	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:12	6010366	JRS

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Safety-Kleen Corporation - Elgin
1502 E. Villa Street
Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 27, 2016

Report No.: AZA0397
Client ID: MW-9
Date/Time Sampled: 1/14/2016 11:10:00AM
Matrix: Ground Water

Project: Archdale, NC
Lab Number ID: AZA0397-08
Date/Time Received: 1/16/2016 10:40:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Semivolatile Organic Compounds by EPA 8270											
Isophorone	ND	10	3.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:12	6010366	JRS
2-Methylnaphthalene	ND	10	2.5	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:12	6010366	JRS
2-Methylphenol (o-cresol)	ND	10	6.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:12	6010366	JRS
3+4-Methylphenol (m+p-cresol)	ND	10	5.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:12	6010366	JRS
2-Nitroaniline	ND	50	2.5	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:12	6010366	JRS
3-Nitroaniline	ND	50	2.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:12	6010366	JRS
4-Nitroaniline	ND	50	3.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:12	6010366	JRS
Nitrobenzene	ND	10	3.6	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:12	6010366	JRS
2-Nitrophenol	ND	50	3.1	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:12	6010366	JRS
4-Nitrophenol	ND	50	1.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:12	6010366	JRS
N-Nitrosodimethylamine	ND	10	3.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:12	6010366	JRS
N-Nitrosodiphenylamine/Diphenylamine	ND	10	1.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:12	6010366	JRS
N-Nitrosodi-n-propylamine	ND	10	3.6	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:12	6010366	JRS
Di-n-octyl phthalate	ND	10	4.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:12	6010366	JRS
Phenanthrene	ND	10	1.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:12	6010366	JRS
Phenol	ND	10	1.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:12	6010366	JRS
Pyrene	ND	10	2.6	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:12	6010366	JRS
1,2,4-Trichlorobenzene	ND	10	2.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:12	6010366	JRS
2,4,5-Trichlorophenol	ND	10	2.3	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:12	6010366	JRS
2,4,6-Trichlorophenol	ND	10	3.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:12	6010366	JRS
Surrogate: 2-Fluorophenol	*41 %*		*11-120*		*EPA 8270D*			01/20/16 08:30	01/20/16 21:12	*6010366*	
Surrogate: Phenol-d6	*25 %*		*10-120*		*EPA 8270D*			01/20/16 08:30	01/20/16 21:12	*6010366*	
Surrogate: Nitrobenzene-d5	*66 %*		*15-120*		*EPA 8270D*			01/20/16 08:30	01/20/16 21:12	*6010366*	
Surrogate: 2-Fluorobiphenyl	*52 %*		*23-120*		*EPA 8270D*			01/20/16 08:30	01/20/16 21:12	*6010366*	
Surrogate: 2,4,6-Tribromophenol	*105 %*		*36-120*		*EPA 8270D*			01/20/16 08:30	01/20/16 21:12	*6010366*	
Surrogate: p-Terphenyl-dl4	*81 %*		*53-121*		*EPA 8270D*			01/20/16 08:30	01/20/16 21:12	*6010366*	
Benzo(a)anthracene	ND	1.0	0.05	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 18:04	6010366	JRS
Benzo(b)fluoranthene	ND	1.0	0.02	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 18:04	6010366	JRS
Benzo(k)fluoranthene	ND	1.0	0.05	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 18:04	6010366	JRS
Chrysene	ND	1.0	0.05	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 18:04	6010366	JRS
Dibenzo(a,h)anthracene	ND	1.0	0.14	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 18:04	6010366	JRS
Benzo(a)pyrene	ND	1.0	0.06	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 18:04	6010366	JRS

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Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 27, 2016

Report No.: AZA0397

Client ID: MW-9

Date/Time Sampled: 1/14/2016 11:10:00AM

Matrix: Ground Water

Project: Archdale, NC

Lab Number ID: AZA0397-08

Date/Time Received: 1/16/2016 10:40:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Semivolatile Organic Compounds by EPA 8270											
Indeno(1,2,3-cd)pyrene	ND	1.0	0.11	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 18:04	6010366	JRS
Naphthalene	ND	1.0	0.06	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 18:04	6010366	JRS
Hexachlorobenzene	ND	1.0	0.06	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 18:04	6010366	JRS
Pentachlorophenol	ND	1.0	0.11	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 18:04	6010366	JRS

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Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 27, 2016

Report No.: AZA0397
Client ID: MW-10
Date/Time Sampled: 1/14/2016 12:05:00PM
Matrix: Ground Water

Project: Archdale, NC
Lab Number ID: AZA0397-09
Date/Time Received: 1/16/2016 10:40:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Volatile Organic Compounds by EPA 8260											
Acetone	25	100	4.9	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 15:26	6010321	ART
Acrolein	ND	50	1.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:26	6010321	ART
Acrylonitrile	ND	50	1.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:26	6010321	ART
Allyl Chloride (3-Chloropropylene)	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:26	6010321	ART
Benzene	ND	2.0	0.2	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:26	6010321	ART
Bromobenzene	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:26	6010321	ART
Bromochloromethane	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:26	6010321	ART
Bromodichloromethane	ND	10	0.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:26	6010321	ART
Bromoform	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:26	6010321	ART
Bromomethane	ND	10	0.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:26	6010321	ART
n-Butylbenzene	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:26	6010321	ART
sec-Butylbenzene	11	10	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:26	6010321	ART
tert-Butylbenzene	3.3	10	0.3	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 15:26	6010321	ART
Carbon Disulfide	ND	10	0.9	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:26	6010321	ART
Carbon Tetrachloride	ND	2.0	0.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:26	6010321	ART
Chlorobenzene	7.6	10	0.4	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 15:26	6010321	ART
1-Chlorobutane	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:26	6010321	ART
Chloroethane	ND	5.0	0.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:26	6010321	ART
2-Chloroethyl Vinyl Ether	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:26	6010321	ART
Chloroform	ND	2.0	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:26	6010321	ART
Chloromethane	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:26	6010321	ART
2-Chlorotoluene	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:26	6010321	ART
4-Chlorotoluene	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:26	6010321	ART
Dibromochloromethane	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:26	6010321	ART
1,2-Dibromo-3-chloropropane	ND	10	2.0	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:26	6010321	ART
1,2-Dibromoethane	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:26	6010321	ART
Dibromomethane	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:26	6010321	ART
1,2-Dichlorobenzene	0.6	10	0.5	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 15:26	6010321	ART
1,3-Dichlorobenzene	2.7	10	0.3	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 15:26	6010321	ART
1,4-Dichlorobenzene	5.6	10	0.2	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 15:26	6010321	ART
trans-1,4-Dichloro-2-butene	ND	5.0	1.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:26	6010321	ART
Dichlorodifluoromethane	ND	10	0.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:26	6010321	ART

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Attention: Mr. Bob Schoepke

January 27, 2016

Report No.: AZA0397
Client ID: MW-10
Date/Time Sampled: 1/14/2016 12:05:00PM
Matrix: Ground Water

Project: Archdale, NC
Lab Number ID: AZA0397-09
Date/Time Received: 1/16/2016 10:40:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Volatile Organic Compounds by EPA 8260											
1,1-Dichloroethane	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:26	6010321	ART
1,2-Dichloroethane	ND	2.0	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:26	6010321	ART
1,1-Dichloroethene	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:26	6010321	ART
cis-1,2-Dichloroethene	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:26	6010321	ART
trans-1,2-Dichloroethene	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:26	6010321	ART
1,2-Dichloropropane	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:26	6010321	ART
1,3-Dichloropropane	ND	2.0	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:26	6010321	ART
2,2-Dichloropropane	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:26	6010321	ART
1,1-Dichloropropene	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:26	6010321	ART
cis-1,3-Dichloropropene	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:26	6010321	ART
trans-1,3-Dichloropropene	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:26	6010321	ART
Ethylbenzene	0.5	2.0	0.3	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 15:26	6010321	ART
Ethyl Methacrylate	ND	10	0.9	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:26	6010321	ART
Hexachlorobutadiene	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:26	6010321	ART
p-Isopropyltoluene	10	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:26	6010321	ART
Hexachloroethane	ND	10	1.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:26	6010321	ART
Iodomethane	ND	10	0.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:26	6010321	ART
Isopropylbenzene	1.9	10	0.3	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 15:26	6010321	ART
Methacrylonitrile	ND	10	1.2	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:26	6010321	ART
Methyl Acrylate	ND	10	0.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:26	6010321	ART
Methyl Butyl Ketone (2-Hexanone)	ND	10	0.9	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:26	6010321	ART
Methylene Chloride	ND	5.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:26	6010321	ART
Methyl Ethyl Ketone (2-Butanone)	ND	100	1.1	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:26	6010321	ART
Methyl Methacrylate	ND	10	0.9	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:26	6010321	ART
4-Methyl-2-pentanone (MIBK)	ND	10	1.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:26	6010321	ART
Methyl-tert-Butyl Ether	ND	10	0.9	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:26	6010321	ART
Naphthalene	2.1	10	0.3	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 15:26	6010321	ART
2-Nitropropane	ND	10	1.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:26	6010321	ART
Propionitrile (Ethyl Cyanide)	ND	20	1.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:26	6010321	ART
n-Propylbenzene	2.8	10	0.3	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 15:26	6010321	ART
Styrene	ND	5.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:26	6010321	ART
1,1,1,2-Tetrachloroethane	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:26	6010321	ART

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ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Safety-Kleen Corporation - Elgin
1502 E. Villa Street
Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 27, 2016

Report No.: AZA0397
Client ID: MW-10
Date/Time Sampled: 1/14/2016 12:05:00PM
Matrix: Ground Water

Project: Archdale, NC
Lab Number ID: AZA0397-09
Date/Time Received: 1/16/2016 10:40:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Volatile Organic Compounds by EPA 8260											
1,1,2,2-Tetrachloroethane	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:26	6010321	ART
Tetrachloroethene	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:26	6010321	ART
Toluene	ND	2.0	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:26	6010321	ART
1,2,3-Trichlorobenzene	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:26	6010321	ART
1,2,4-Trichlorobenzene	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:26	6010321	ART
1,1,1-Trichloroethane	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:26	6010321	ART
1,1,2-Trichloroethane	ND	2.0	0.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:26	6010321	ART
Trichloroethene	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:26	6010321	ART
Trichlorofluoromethane	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:26	6010321	ART
1,2,3-Trichloropropane	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:26	6010321	ART
1,2,4-Trimethylbenzene	14	10	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:26	6010321	ART
1,3,5-Trimethylbenzene	5.8	10	0.4	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 15:26	6010321	ART
Vinyl Acetate	ND	10	0.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:26	6010321	ART
Vinyl Chloride	ND	2.0	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:26	6010321	ART
m+p-Xylene	ND	5.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:26	6010321	ART
o-Xylene	0.4	5.0	0.3	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 15:26	6010321	ART
Xylenes, total	0.4	5.0	0.4	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 15:26	6010321	ART
Surrogate: Dibromofluoromethane	*92 %*		*80-120*		*EPA 8260B*			01/18/16 08:30	01/18/16 15:26	*6010321*	
Surrogate: 1,2-Dichloroethane-d4	*102 %*		*78-120*		*EPA 8260B*			01/18/16 08:30	01/18/16 15:26	*6010321*	
Surrogate: Toluene-d8	*96 %*		*80-120*		*EPA 8260B*			01/18/16 08:30	01/18/16 15:26	*6010321*	
Surrogate: 4-Bromofluorobenzene	*95 %*		*80-120*		*EPA 8260B*			01/18/16 08:30	01/18/16 15:26	*6010321*	
Semivolatile Organic Compounds by EPA 8270											
Acenaphthene	ND	10	2.2	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:34	6010366	JRS
Acenaphthylene	ND	10	2.1	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:34	6010366	JRS
Anthracene	ND	10	1.8	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:34	6010366	JRS
Benzo(ghi)perylene	ND	10	2.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:34	6010366	JRS
Benzoic acid	ND	50	3.5	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:34	6010366	JRS
Benzyl alcohol	ND	20	3.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:34	6010366	JRS
Benzyl butyl phthalate	ND	10	3.2	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:34	6010366	JRS
4-Bromophenyl phenyl ether	ND	10	1.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:34	6010366	JRS
Di-n-butyl phthalate	ND	10	2.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:34	6010366	JRS

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Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 27, 2016

Report No.: AZA0397
Client ID: MW-10
Date/Time Sampled: 1/14/2016 12:05:00PM
Matrix: Ground Water

Project: Archdale, NC
Lab Number ID: AZA0397-09
Date/Time Received: 1/16/2016 10:40:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Semivolatile Organic Compounds by EPA 8270											
4-Chloroaniline	ND	20	3.1	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:34	6010366	JRS
Bis(2-chloroethoxy)methane	ND	10	3.7	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:34	6010366	JRS
Bis(2-chloroethyl)ether	ND	10	4.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:34	6010366	JRS
Bis(2-chloroisopropyl)ether	ND	10	3.7	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:34	6010366	JRS
4-Chloro-3-methylphenol	ND	10	2.3	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:34	6010366	JRS
2-Chloronaphthalene	ND	10	2.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:34	6010366	JRS
2-Chlorophenol	ND	10	3.5	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:34	6010366	JRS
4-Chlorophenyl phenyl ether	ND	10	1.8	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:34	6010366	JRS
3,3´-Dichlorobenzidine	ND	20	2.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:34	6010366	JRS
2,4-Dichlorophenol	ND	10	2.8	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:34	6010366	JRS
Diethyl phthalate	ND	10	2.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:34	6010366	JRS
2,4-Dimethylphenol	ND	10	2.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:34	6010366	JRS
Dimethyl phthalate	ND	10	1.7	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:34	6010366	JRS
4,6-Dinitro-2-methylphenol	ND	50	3.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:34	6010366	JRS
2,4-Dinitrophenol	ND	50	2.8	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:34	6010366	JRS
2,4-Dinitrotoluene	ND	20	2.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:34	6010366	JRS
2,6-Dinitrotoluene	ND	20	1.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:34	6010366	JRS
Bis(2-ethylhexyl)phthalate	ND	10	3.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:34	6010366	JRS
Fluoranthene	ND	10	2.2	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:34	6010366	JRS
Fluorene	ND	10	1.7	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:34	6010366	JRS
Hexachlorobutadiene	ND	10	2.7	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:34	6010366	JRS
Hexachlorocyclopentadiene	ND	10	3.3	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:34	6010366	JRS
Hexachloroethane	ND	10	3.1	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:34	6010366	JRS
Isophorone	ND	10	3.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:34	6010366	JRS
2-Methylnaphthalene	ND	10	2.5	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:34	6010366	JRS
2-Methylphenol (o-cresol)	ND	10	6.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:34	6010366	JRS
3+4-Methylphenol (m+p-cresol)	ND	10	5.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:34	6010366	JRS
2-Nitroaniline	ND	50	2.5	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:34	6010366	JRS
3-Nitroaniline	ND	50	2.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:34	6010366	JRS
4-Nitroaniline	ND	50	3.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:34	6010366	JRS
Nitrobenzene	ND	10	3.6	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:34	6010366	JRS
2-Nitrophenol	ND	50	3.1	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:34	6010366	JRS

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Safety-Kleen Corporation - Elgin
1502 E. Villa Street
Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 27, 2016

Report No.: AZA0397
Client ID: MW-10
Date/Time Sampled: 1/14/2016 12:05:00PM
Matrix: Ground Water

Project: Archdale, NC
Lab Number ID: AZA0397-09
Date/Time Received: 1/16/2016 10:40:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Semivolatile Organic Compounds by EPA 8270											
4-Nitrophenol	ND	50	1.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:34	6010366	JRS
N-Nitrosodimethylamine	ND	10	3.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:34	6010366	JRS
N-Nitrosodiphenylamine/Diphenylamine	ND	10	1.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:34	6010366	JRS
N-Nitrosodi-n-propylamine	ND	10	3.6	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:34	6010366	JRS
Di-n-octyl phthalate	ND	10	4.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:34	6010366	JRS
Phenanthrene	ND	10	1.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:34	6010366	JRS
Phenol	ND	10	1.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:34	6010366	JRS
Pyrene	ND	10	2.6	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:34	6010366	JRS
1,2,4-Trichlorobenzene	ND	10	2.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:34	6010366	JRS
2,4,5-Trichlorophenol	ND	10	2.3	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:34	6010366	JRS
2,4,6-Trichlorophenol	ND	10	3.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:34	6010366	JRS
Surrogate: 2-Fluorophenol	*36 %*		*11-120*		*EPA 8270D*			01/20/16 08:30	01/20/16 21:34	*6010366*	
Surrogate: Phenol-d6	*23 %*		*10-120*		*EPA 8270D*			01/20/16 08:30	01/20/16 21:34	*6010366*	
Surrogate: Nitrobenzene-d5	*62 %*		*15-120*		*EPA 8270D*			01/20/16 08:30	01/20/16 21:34	*6010366*	
Surrogate: 2-Fluorobiphenyl	*79 %*		*23-120*		*EPA 8270D*			01/20/16 08:30	01/20/16 21:34	*6010366*	
Surrogate: 2,4,6-Tribromophenol	*98 %*		*36-120*		*EPA 8270D*			01/20/16 08:30	01/20/16 21:34	*6010366*	
Surrogate: p-Terphenyl-dl4	*75 %*		*53-121*		*EPA 8270D*			01/20/16 08:30	01/20/16 21:34	*6010366*	
Benzo(a)anthracene	ND	1.0	0.05	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 18:30	6010366	JRS
Benzo(b)fluoranthene	ND	1.0	0.02	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 18:30	6010366	JRS
Benzo(k)fluoranthene	ND	1.0	0.05	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 18:30	6010366	JRS
Chrysene	ND	1.0	0.05	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 18:30	6010366	JRS
Dibenzo(a,h)anthracene	ND	1.0	0.14	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 18:30	6010366	JRS
Benzo(a)pyrene	ND	1.0	0.06	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 18:30	6010366	JRS
Indeno(1,2,3-cd)pyrene	ND	1.0	0.11	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 18:30	6010366	JRS
Naphthalene	ND	1.0	0.06	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 18:30	6010366	JRS
Hexachlorobenzene	ND	1.0	0.06	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 18:30	6010366	JRS
Pentachlorophenol	ND	1.0	0.11	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 18:30	6010366	JRS

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Safety-Kleen Corporation - Elgin
1502 E. Villa Street
Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 27, 2016

Report No.: AZA0397
Client ID: SVE-1
Date/Time Sampled: 1/15/2016 10:10:00AM
Matrix: Ground Water

Project: Archdale, NC
Lab Number ID: AZA0397-10
Date/Time Received: 1/16/2016 10:40:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Volatile Organic Compounds by EPA 8260											
Acetone	23	100	4.9	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 15:53	6010321	ART
Acrolein	ND	50	1.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:53	6010321	ART
Acrylonitrile	ND	50	1.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:53	6010321	ART
Allyl Chloride (3-Chloropropylene)	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:53	6010321	ART
Benzene	2.3	2.0	0.2	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:53	6010321	ART
Bromobenzene	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:53	6010321	ART
Bromochloromethane	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:53	6010321	ART
Bromodichloromethane	ND	10	0.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:53	6010321	ART
Bromoform	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:53	6010321	ART
Bromomethane	ND	10	0.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:53	6010321	ART
n-Butylbenzene	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:53	6010321	ART
sec-Butylbenzene	3.8	10	0.3	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 15:53	6010321	ART
tert-Butylbenzene	6.4	10	0.3	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 15:53	6010321	ART
Carbon Disulfide	ND	10	0.9	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:53	6010321	ART
Carbon Tetrachloride	ND	2.0	0.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:53	6010321	ART
Chlorobenzene	140	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:53	6010321	ART
1-Chlorobutane	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:53	6010321	ART
Chloroethane	0.9	5.0	0.6	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 15:53	6010321	ART
2-Chloroethyl Vinyl Ether	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:53	6010321	ART
Chloroform	ND	2.0	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:53	6010321	ART
Chloromethane	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:53	6010321	ART
2-Chlorotoluene	0.9	10	0.5	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 15:53	6010321	ART
4-Chlorotoluene	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:53	6010321	ART
Dibromochloromethane	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:53	6010321	ART
1,2-Dibromo-3-chloropropane	ND	10	2.0	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:53	6010321	ART
1,2-Dibromoethane	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:53	6010321	ART
Dibromomethane	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:53	6010321	ART
1,2-Dichlorobenzene	10	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:53	6010321	ART
1,3-Dichlorobenzene	6.0	10	0.3	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 15:53	6010321	ART
1,4-Dichlorobenzene	33	10	0.2	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:53	6010321	ART
trans-1,4-Dichloro-2-butene	ND	5.0	1.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:53	6010321	ART
Dichlorodifluoromethane	ND	10	0.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:53	6010321	ART

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ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Safety-Kleen Corporation - Elgin
1502 E. Villa Street
Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 27, 2016

Report No.: AZA0397
Client ID: SVE-1
Date/Time Sampled: 1/15/2016 10:10:00AM
Matrix: Ground Water

Project: Archdale, NC
Lab Number ID: AZA0397-10
Date/Time Received: 1/16/2016 10:40:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Volatile Organic Compounds by EPA 8260											
1,1-Dichloroethane	1.7	2.0	0.4	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 15:53	6010321	ART
1,2-Dichloroethane	1.8	2.0	0.3	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 15:53	6010321	ART
1,1-Dichloroethene	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:53	6010321	ART
cis-1,2-Dichloroethene	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:53	6010321	ART
trans-1,2-Dichloroethene	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:53	6010321	ART
1,2-Dichloropropane	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:53	6010321	ART
1,3-Dichloropropane	ND	2.0	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:53	6010321	ART
2,2-Dichloropropane	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:53	6010321	ART
1,1-Dichloropropene	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:53	6010321	ART
cis-1,3-Dichloropropene	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:53	6010321	ART
trans-1,3-Dichloropropene	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:53	6010321	ART
Ethylbenzene	18	2.0	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:53	6010321	ART
Ethyl Methacrylate	ND	10	0.9	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:53	6010321	ART
Hexachlorobutadiene	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:53	6010321	ART
p-Isopropyltoluene	4.7	10	0.4	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 15:53	6010321	ART
Hexachloroethane	ND	10	1.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:53	6010321	ART
Iodomethane	ND	10	0.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:53	6010321	ART
Isopropylbenzene	6.6	10	0.3	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 15:53	6010321	ART
Methacrylonitrile	ND	10	1.2	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:53	6010321	ART
Methyl Acrylate	ND	10	0.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:53	6010321	ART
Methyl Butyl Ketone (2-Hexanone)	ND	10	0.9	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:53	6010321	ART
Methylene Chloride	ND	5.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:53	6010321	ART
Methyl Ethyl Ketone (2-Butanone)	ND	100	1.1	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:53	6010321	ART
Methyl Methacrylate	ND	10	0.9	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:53	6010321	ART
4-Methyl-2-pentanone (MIBK)	ND	10	1.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:53	6010321	ART
Methyl-tert-Butyl Ether	ND	10	0.9	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:53	6010321	ART
Naphthalene	48	10	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:53	6010321	ART
2-Nitropropane	ND	10	1.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:53	6010321	ART
Propionitrile (Ethyl Cyanide)	ND	20	1.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:53	6010321	ART
n-Propylbenzene	4.1	10	0.3	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 15:53	6010321	ART
Styrene	ND	5.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:53	6010321	ART
1,1,1,2-Tetrachloroethane	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:53	6010321	ART

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Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 27, 2016

Report No.: AZA0397
Client ID: SVE-1
Date/Time Sampled: 1/15/2016 10:10:00AM
Matrix: Ground Water

Project: Archdale, NC
Lab Number ID: AZA0397-10
Date/Time Received: 1/16/2016 10:40:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Volatile Organic Compounds by EPA 8260											
1,1,2,2-Tetrachloroethane	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:53	6010321	ART
Tetrachloroethene	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:53	6010321	ART
Toluene	0.4	2.0	0.3	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 15:53	6010321	ART
1,2,3-Trichlorobenzene	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:53	6010321	ART
1,2,4-Trichlorobenzene	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:53	6010321	ART
1,1,1-Trichloroethane	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:53	6010321	ART
1,1,2-Trichloroethane	ND	2.0	0.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:53	6010321	ART
Trichloroethene	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:53	6010321	ART
Trichlorofluoromethane	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:53	6010321	ART
1,2,3-Trichloropropane	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:53	6010321	ART
1,2,4-Trimethylbenzene	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:53	6010321	ART
1,3,5-Trimethylbenzene	21	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:53	6010321	ART
Vinyl Acetate	ND	10	0.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:53	6010321	ART
Vinyl Chloride	ND	2.0	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:53	6010321	ART
m+p-Xylene	0.7	5.0	0.4	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 15:53	6010321	ART
o-Xylene	7.0	5.0	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:53	6010321	ART
Xylenes, total	7.0	5.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 15:53	6010321	ART
Surrogate: Dibromofluoromethane	*92 %*		*80-120*		*EPA 8260B*			01/18/16 08:30	01/18/16 15:53	*6010321*	
Surrogate: 1,2-Dichloroethane-d4	*105 %*		*78-120*		*EPA 8260B*			01/18/16 08:30	01/18/16 15:53	*6010321*	
Surrogate: Toluene-d8	*95 %*		*80-120*		*EPA 8260B*			01/18/16 08:30	01/18/16 15:53	*6010321*	
Surrogate: 4-Bromofluorobenzene	*95 %*		*80-120*		*EPA 8260B*			01/18/16 08:30	01/18/16 15:53	*6010321*	
Semivolatile Organic Compounds by EPA 8270											
Acenaphthene	ND	10	2.2	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:57	6010366	JRS
Acenaphthylene	ND	10	2.1	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:57	6010366	JRS
Anthracene	ND	10	1.8	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:57	6010366	JRS
Benzo(ghi)perylene	ND	10	2.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:57	6010366	JRS
Benzoic acid	ND	50	3.5	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:57	6010366	JRS
Benzyl alcohol	ND	20	3.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:57	6010366	JRS
Benzyl butyl phthalate	ND	10	3.2	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:57	6010366	JRS
4-Bromophenyl phenyl ether	ND	10	1.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:57	6010366	JRS
Di-n-butyl phthalate	ND	10	2.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:57	6010366	JRS

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Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 27, 2016

Report No.: AZA0397
Client ID: SVE-1
Date/Time Sampled: 1/15/2016 10:10:00AM
Matrix: Ground Water

Project: Archdale, NC
Lab Number ID: AZA0397-10
Date/Time Received: 1/16/2016 10:40:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Semivolatile Organic Compounds by EPA 8270											
4-Chloroaniline	ND	20	3.1	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:57	6010366	JRS
Bis(2-chloroethoxy)methane	ND	10	3.7	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:57	6010366	JRS
Bis(2-chloroethyl)ether	ND	10	4.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:57	6010366	JRS
Bis(2-chloroisopropyl)ether	ND	10	3.7	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:57	6010366	JRS
4-Chloro-3-methylphenol	ND	10	2.3	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:57	6010366	JRS
2-Chloronaphthalene	ND	10	2.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:57	6010366	JRS
2-Chlorophenol	ND	10	3.5	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:57	6010366	JRS
4-Chlorophenyl phenyl ether	ND	10	1.8	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:57	6010366	JRS
3,3´-Dichlorobenzidine	ND	20	2.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:57	6010366	JRS
2,4-Dichlorophenol	ND	10	2.8	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:57	6010366	JRS
Diethyl phthalate	ND	10	2.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:57	6010366	JRS
2,4-Dimethylphenol	ND	10	2.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:57	6010366	JRS
Dimethyl phthalate	41	10	1.7	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:57	6010366	JRS
4,6-Dinitro-2-methylphenol	ND	50	3.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:57	6010366	JRS
2,4-Dinitrophenol	ND	50	2.8	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:57	6010366	JRS
2,4-Dinitrotoluene	ND	20	2.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:57	6010366	JRS
2,6-Dinitrotoluene	ND	20	1.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:57	6010366	JRS
Bis(2-ethylhexyl)phthalate	ND	10	3.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:57	6010366	JRS
Fluoranthene	ND	10	2.2	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:57	6010366	JRS
Fluorene	ND	10	1.7	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:57	6010366	JRS
Hexachlorobutadiene	ND	10	2.7	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:57	6010366	JRS
Hexachlorocyclopentadiene	ND	10	3.3	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:57	6010366	JRS
Hexachloroethane	ND	10	3.1	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:57	6010366	JRS
Isophorone	ND	10	3.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:57	6010366	JRS
2-Methylnaphthalene	3.2	10	2.5	ug/L	EPA 8270D	J	1	01/20/16 08:30	01/20/16 21:57	6010366	JRS
2-Methylphenol (o-cresol)	ND	10	6.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:57	6010366	JRS
3+4-Methylphenol (m+p-cresol)	ND	10	5.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:57	6010366	JRS
Naphthalene	29	10	2.6	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:57	6010366	JRS
2-Nitroaniline	ND	50	2.5	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:57	6010366	JRS
3-Nitroaniline	ND	50	2.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:57	6010366	JRS
4-Nitroaniline	ND	50	3.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:57	6010366	JRS
Nitrobenzene	ND	10	3.6	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:57	6010366	JRS

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January 27, 2016

Report No.: AZA0397
Client ID: SVE-1
Date/Time Sampled: 1/15/2016 10:10:00AM
Matrix: Ground Water

Project: Archdale, NC
Lab Number ID: AZA0397-10
Date/Time Received: 1/16/2016 10:40:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Semivolatile Organic Compounds by EPA 8270											
2-Nitrophenol	ND	50	3.1	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:57	6010366	JRS
4-Nitrophenol	ND	50	1.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:57	6010366	JRS
N-Nitrosodimethylamine	ND	10	3.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:57	6010366	JRS
N-Nitrosodiphenylamine/Diphenylamine	ND	10	1.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:57	6010366	JRS
N-Nitrosodi-n-propylamine	ND	10	3.6	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:57	6010366	JRS
Di-n-octyl phthalate	ND	10	4.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:57	6010366	JRS
Phenanthrene	ND	10	1.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:57	6010366	JRS
Phenol	ND	10	1.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:57	6010366	JRS
Pyrene	ND	10	2.6	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:57	6010366	JRS
1,2,4-Trichlorobenzene	ND	10	2.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:57	6010366	JRS
2,4,5-Trichlorophenol	ND	10	2.3	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:57	6010366	JRS
2,4,6-Trichlorophenol	ND	10	3.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 21:57	6010366	JRS
Surrogate: 2-Fluorophenol	*35 %*		*11-120*		*EPA 8270D*			01/20/16 08:30	01/20/16 21:57	*6010366*	
Surrogate: Phenol-d6	*23 %*		*10-120*		*EPA 8270D*			01/20/16 08:30	01/20/16 21:57	*6010366*	
Surrogate: Nitrobenzene-d5	*60 %*		*15-120*		*EPA 8270D*			01/20/16 08:30	01/20/16 21:57	*6010366*	
Surrogate: 2-Fluorobiphenyl	*66 %*		*23-120*		*EPA 8270D*			01/20/16 08:30	01/20/16 21:57	*6010366*	
Surrogate: 2,4,6-Tribromophenol	*102 %*		*36-120*		*EPA 8270D*			01/20/16 08:30	01/20/16 21:57	*6010366*	
Surrogate: p-Terphenyl-dl4	*84 %*		*53-121*		*EPA 8270D*			01/20/16 08:30	01/20/16 21:57	*6010366*	
Benzo(a)anthracene	ND	1.0	0.05	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 18:56	6010366	JRS
Benzo(b)fluoranthene	ND	1.0	0.02	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 18:56	6010366	JRS
Benzo(k)fluoranthene	ND	1.0	0.05	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 18:56	6010366	JRS
Chrysene	ND	1.0	0.05	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 18:56	6010366	JRS
Dibenzo(a,h)anthracene	ND	1.0	0.14	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 18:56	6010366	JRS
Benzo(a)pyrene	ND	1.0	0.06	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 18:56	6010366	JRS
Indeno(1,2,3-cd)pyrene	ND	1.0	0.11	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 18:56	6010366	JRS
Hexachlorobenzene	ND	1.0	0.06	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 18:56	6010366	JRS
Pentachlorophenol	ND	1.0	0.11	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 18:56	6010366	JRS

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Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Safety-Kleen Corporation - Elgin
1502 E. Villa Street
Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 27, 2016

Report No.: AZA0397
Client ID: OW-1
Date/Time Sampled: 1/14/2016 4:30:00PM
Matrix: Ground Water

Project: Archdale, NC
Lab Number ID: AZA0397-11
Date/Time Received: 1/16/2016 10:40:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Volatile Organic Compounds by EPA 8260											
Acetone	9.8	100	4.9	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 16:19	6010321	ART
Acrolein	ND	50	1.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:19	6010321	ART
Acrylonitrile	ND	50	1.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:19	6010321	ART
Allyl Chloride (3-Chloropropylene)	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:19	6010321	ART
Benzene	ND	2.0	0.2	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:19	6010321	ART
Bromobenzene	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:19	6010321	ART
Bromochloromethane	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:19	6010321	ART
Bromodichloromethane	ND	10	0.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:19	6010321	ART
Bromoform	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:19	6010321	ART
Bromomethane	ND	10	0.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:19	6010321	ART
n-Butylbenzene	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:19	6010321	ART
sec-Butylbenzene	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:19	6010321	ART
tert-Butylbenzene	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:19	6010321	ART
Carbon Disulfide	ND	10	0.9	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:19	6010321	ART
Carbon Tetrachloride	ND	2.0	0.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:19	6010321	ART
Chlorobenzene	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:19	6010321	ART
1-Chlorobutane	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:19	6010321	ART
Chloroethane	ND	5.0	0.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:19	6010321	ART
2-Chloroethyl Vinyl Ether	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:19	6010321	ART
Chloroform	ND	2.0	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:19	6010321	ART
Chloromethane	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:19	6010321	ART
2-Chlorotoluene	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:19	6010321	ART
4-Chlorotoluene	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:19	6010321	ART
Dibromochloromethane	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:19	6010321	ART
1,2-Dibromo-3-chloropropane	ND	10	2.0	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:19	6010321	ART
1,2-Dibromoethane	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:19	6010321	ART
Dibromomethane	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:19	6010321	ART
1,2-Dichlorobenzene	0.5	10	0.5	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 16:19	6010321	ART
1,3-Dichlorobenzene	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:19	6010321	ART
1,4-Dichlorobenzene	ND	10	0.2	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:19	6010321	ART
trans-1,4-Dichloro-2-butene	ND	5.0	1.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:19	6010321	ART
Dichlorodifluoromethane	ND	10	0.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:19	6010321	ART

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Report No.: AZA0397
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Date/Time Sampled: 1/14/2016 4:30:00PM
Matrix: Ground Water

Project: Archdale, NC
Lab Number ID: AZA0397-11
Date/Time Received: 1/16/2016 10:40:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Volatile Organic Compounds by EPA 8260											
1,1-Dichloroethane	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:19	6010321	ART
1,2-Dichloroethane	ND	2.0	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:19	6010321	ART
1,1-Dichloroethene	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:19	6010321	ART
cis-1,2-Dichloroethene	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:19	6010321	ART
trans-1,2-Dichloroethene	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:19	6010321	ART
1,2-Dichloropropane	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:19	6010321	ART
1,3-Dichloropropane	ND	2.0	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:19	6010321	ART
2,2-Dichloropropane	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:19	6010321	ART
1,1-Dichloropropene	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:19	6010321	ART
cis-1,3-Dichloropropene	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:19	6010321	ART
trans-1,3-Dichloropropene	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:19	6010321	ART
Ethylbenzene	ND	2.0	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:19	6010321	ART
Ethyl Methacrylate	ND	10	0.9	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:19	6010321	ART
Hexachlorobutadiene	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:19	6010321	ART
p-Isopropyltoluene	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:19	6010321	ART
Hexachloroethane	ND	10	1.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:19	6010321	ART
Iodomethane	ND	10	0.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:19	6010321	ART
Isopropylbenzene	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:19	6010321	ART
Methacrylonitrile	ND	10	1.2	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:19	6010321	ART
Methyl Acrylate	ND	10	0.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:19	6010321	ART
Methyl Butyl Ketone (2-Hexanone)	ND	10	0.9	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:19	6010321	ART
Methylene Chloride	ND	5.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:19	6010321	ART
Methyl Ethyl Ketone (2-Butanone)	ND	100	1.1	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:19	6010321	ART
Methyl Methacrylate	ND	10	0.9	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:19	6010321	ART
4-Methyl-2-pentanone (MIBK)	ND	10	1.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:19	6010321	ART
Methyl-tert-Butyl Ether	ND	10	0.9	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:19	6010321	ART
Naphthalene	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:19	6010321	ART
2-Nitropropane	ND	10	1.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:19	6010321	ART
Propionitrile (Ethyl Cyanide)	ND	20	1.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:19	6010321	ART
n-Propylbenzene	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:19	6010321	ART
Styrene	ND	5.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:19	6010321	ART
1,1,1,2-Tetrachloroethane	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:19	6010321	ART

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Matrix: Ground Water

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Lab Number ID: AZA0397-11
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Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Volatile Organic Compounds by EPA 8260											
1,1,2,2-Tetrachloroethane	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:19	6010321	ART
Tetrachloroethene	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:19	6010321	ART
Toluene	ND	2.0	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:19	6010321	ART
1,2,3-Trichlorobenzene	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:19	6010321	ART
1,2,4-Trichlorobenzene	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:19	6010321	ART
1,1,1-Trichloroethane	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:19	6010321	ART
1,1,2-Trichloroethane	ND	2.0	0.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:19	6010321	ART
Trichloroethene	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:19	6010321	ART
Trichlorofluoromethane	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:19	6010321	ART
1,2,3-Trichloropropane	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:19	6010321	ART
1,2,4-Trimethylbenzene	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:19	6010321	ART
1,3,5-Trimethylbenzene	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:19	6010321	ART
Vinyl Acetate	ND	10	0.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:19	6010321	ART
Vinyl Chloride	ND	2.0	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:19	6010321	ART
m+p-Xylene	ND	5.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:19	6010321	ART
o-Xylene	ND	5.0	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:19	6010321	ART
Xylenes, total	ND	5.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:19	6010321	ART
Surrogate: Dibromofluoromethane	*93 %*		*80-120*		*EPA 8260B*			01/18/16 08:30	01/18/16 16:19	*6010321*	
Surrogate: 1,2-Dichloroethane-d4	*104 %*		*78-120*		*EPA 8260B*			01/18/16 08:30	01/18/16 16:19	*6010321*	
Surrogate: Toluene-d8	*96 %*		*80-120*		*EPA 8260B*			01/18/16 08:30	01/18/16 16:19	*6010321*	
Surrogate: 4-Bromofluorobenzene	*96 %*		*80-120*		*EPA 8260B*			01/18/16 08:30	01/18/16 16:19	*6010321*	
Semivolatile Organic Compounds by EPA 8270											
Acenaphthene	ND	10	2.2	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 22:20	6010366	JRS
Acenaphthylene	ND	10	2.1	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 22:20	6010366	JRS
Anthracene	ND	10	1.8	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 22:20	6010366	JRS
Benzo(ghi)perylene	ND	10	2.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 22:20	6010366	JRS
Benzoic acid	ND	50	3.5	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 22:20	6010366	JRS
Benzyl alcohol	ND	20	3.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 22:20	6010366	JRS
Benzyl butyl phthalate	ND	10	3.2	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 22:20	6010366	JRS
4-Bromophenyl phenyl ether	ND	10	1.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 22:20	6010366	JRS
Di-n-butyl phthalate	ND	10	2.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 22:20	6010366	JRS

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Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Semivolatile Organic Compounds by EPA 8270											
4-Chloroaniline	ND	20	3.1	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 22:20	6010366	JRS
Bis(2-chloroethoxy)methane	ND	10	3.7	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 22:20	6010366	JRS
Bis(2-chloroethyl)ether	ND	10	4.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 22:20	6010366	JRS
Bis(2-chloroisopropyl)ether	ND	10	3.7	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 22:20	6010366	JRS
4-Chloro-3-methylphenol	ND	10	2.3	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 22:20	6010366	JRS
2-Chloronaphthalene	ND	10	2.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 22:20	6010366	JRS
2-Chlorophenol	ND	10	3.5	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 22:20	6010366	JRS
4-Chlorophenyl phenyl ether	ND	10	1.8	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 22:20	6010366	JRS
3,3´-Dichlorobenzidine	ND	20	2.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 22:20	6010366	JRS
2,4-Dichlorophenol	ND	10	2.8	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 22:20	6010366	JRS
Diethyl phthalate	ND	10	2.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 22:20	6010366	JRS
2,4-Dimethylphenol	ND	10	2.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 22:20	6010366	JRS
Dimethyl phthalate	ND	10	1.7	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 22:20	6010366	JRS
4,6-Dinitro-2-methylphenol	ND	50	3.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 22:20	6010366	JRS
2,4-Dinitrophenol	ND	50	2.8	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 22:20	6010366	JRS
2,4-Dinitrotoluene	ND	20	2.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 22:20	6010366	JRS
2,6-Dinitrotoluene	ND	20	1.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 22:20	6010366	JRS
Bis(2-ethylhexyl)phthalate	ND	10	3.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 22:20	6010366	JRS
Fluoranthene	ND	10	2.2	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 22:20	6010366	JRS
Fluorene	ND	10	1.7	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 22:20	6010366	JRS
Hexachlorobutadiene	ND	10	2.7	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 22:20	6010366	JRS
Hexachlorocyclopentadiene	ND	10	3.3	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 22:20	6010366	JRS
Hexachloroethane	ND	10	3.1	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 22:20	6010366	JRS
Isophorone	ND	10	3.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 22:20	6010366	JRS
2-Methylnaphthalene	ND	10	2.5	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 22:20	6010366	JRS
2-Methylphenol (o-cresol)	ND	10	6.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 22:20	6010366	JRS
3+4-Methylphenol (m+p-cresol)	ND	10	5.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 22:20	6010366	JRS
2-Nitroaniline	ND	50	2.5	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 22:20	6010366	JRS
3-Nitroaniline	ND	50	2.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 22:20	6010366	JRS
4-Nitroaniline	ND	50	3.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 22:20	6010366	JRS
Nitrobenzene	ND	10	3.6	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 22:20	6010366	JRS
2-Nitrophenol	ND	50	3.1	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 22:20	6010366	JRS

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Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Semivolatile Organic Compounds by EPA 8270											
4-Nitrophenol	ND	50	1.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 22:20	6010366	JRS
N-Nitrosodimethylamine	ND	10	3.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 22:20	6010366	JRS
N-Nitrosodiphenylamine/Diphenylamine	ND	10	1.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 22:20	6010366	JRS
N-Nitrosodi-n-propylamine	ND	10	3.6	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 22:20	6010366	JRS
Di-n-octyl phthalate	ND	10	4.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 22:20	6010366	JRS
Phenanthrene	ND	10	1.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 22:20	6010366	JRS
Phenol	ND	10	1.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 22:20	6010366	JRS
Pyrene	ND	10	2.6	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 22:20	6010366	JRS
1,2,4-Trichlorobenzene	ND	10	2.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 22:20	6010366	JRS
2,4,5-Trichlorophenol	ND	10	2.3	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 22:20	6010366	JRS
2,4,6-Trichlorophenol	ND	10	3.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/20/16 22:20	6010366	JRS
Surrogate: 2-Fluorophenol	*37 %*		*11-120*		*EPA 8270D*			01/20/16 08:30	01/20/16 22:20	*6010366*	
Surrogate: Phenol-d6	*23 %*		*10-120*		*EPA 8270D*			01/20/16 08:30	01/20/16 22:20	*6010366*	
Surrogate: Nitrobenzene-d5	*62 %*		*15-120*		*EPA 8270D*			01/20/16 08:30	01/20/16 22:20	*6010366*	
Surrogate: 2-Fluorobiphenyl	*72 %*		*23-120*		*EPA 8270D*			01/20/16 08:30	01/20/16 22:20	*6010366*	
Surrogate: 2,4,6-Tribromophenol	*94 %*		*36-120*		*EPA 8270D*			01/20/16 08:30	01/20/16 22:20	*6010366*	
Surrogate: p-Terphenyl-dl4	*90 %*		*53-121*		*EPA 8270D*			01/20/16 08:30	01/20/16 22:20	*6010366*	
Benzo(a)anthracene	ND	1.0	0.05	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 19:21	6010366	JRS
Benzo(b)fluoranthene	ND	1.0	0.02	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 19:21	6010366	JRS
Benzo(k)fluoranthene	ND	1.0	0.05	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 19:21	6010366	JRS
Chrysene	ND	1.0	0.05	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 19:21	6010366	JRS
Dibenzo(a,h)anthracene	ND	1.0	0.14	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 19:21	6010366	JRS
Benzo(a)pyrene	ND	1.0	0.06	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 19:21	6010366	JRS
Indeno(1,2,3-cd)pyrene	ND	1.0	0.11	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 19:21	6010366	JRS
Naphthalene	ND	1.0	0.06	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 19:21	6010366	JRS
Hexachlorobenzene	ND	1.0	0.06	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 19:21	6010366	JRS
Pentachlorophenol	ND	1.0	0.11	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 19:21	6010366	JRS

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Safety-Kleen Corporation - Elgin
1502 E. Villa Street
Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 27, 2016

Report No.: AZA0397
Client ID: OW-2
Date/Time Sampled: 1/15/2016 11:20:00AM
Matrix: Ground Water

Project: Archdale, NC
Lab Number ID: AZA0397-12
Date/Time Received: 1/16/2016 10:40:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Volatile Organic Compounds by EPA 8260											
Acetone	16	100	4.9	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 16:45	6010321	ART
Acrolein	ND	50	1.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:45	6010321	ART
Acrylonitrile	ND	50	1.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:45	6010321	ART
Allyl Chloride (3-Chloropropylene)	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:45	6010321	ART
Benzene	0.4	2.0	0.2	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 16:45	6010321	ART
Bromobenzene	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:45	6010321	ART
Bromochloromethane	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:45	6010321	ART
Bromodichloromethane	ND	10	0.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:45	6010321	ART
Bromoform	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:45	6010321	ART
Bromomethane	ND	10	0.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:45	6010321	ART
n-Butylbenzene	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:45	6010321	ART
sec-Butylbenzene	0.4	10	0.3	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 16:45	6010321	ART
tert-Butylbenzene	0.6	10	0.3	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 16:45	6010321	ART
Carbon Disulfide	ND	10	0.9	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:45	6010321	ART
Carbon Tetrachloride	ND	2.0	0.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:45	6010321	ART
Chlorobenzene	35	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:45	6010321	ART
1-Chlorobutane	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:45	6010321	ART
Chloroethane	ND	5.0	0.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:45	6010321	ART
2-Chloroethyl Vinyl Ether	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:45	6010321	ART
Chloroform	ND	2.0	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:45	6010321	ART
Chloromethane	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:45	6010321	ART
2-Chlorotoluene	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:45	6010321	ART
4-Chlorotoluene	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:45	6010321	ART
Dibromochloromethane	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:45	6010321	ART
1,2-Dibromo-3-chloropropane	ND	10	2.0	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:45	6010321	ART
1,2-Dibromoethane	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:45	6010321	ART
Dibromomethane	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:45	6010321	ART
1,2-Dichlorobenzene	4.5	10	0.5	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 16:45	6010321	ART
1,3-Dichlorobenzene	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:45	6010321	ART
1,4-Dichlorobenzene	1.6	10	0.2	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 16:45	6010321	ART
trans-1,4-Dichloro-2-butene	ND	5.0	1.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:45	6010321	ART
Dichlorodifluoromethane	ND	10	0.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:45	6010321	ART

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Safety-Kleen Corporation - Elgin
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Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 27, 2016

Report No.: AZA0397
Client ID: OW-2
Date/Time Sampled: 1/15/2016 11:20:00AM
Matrix: Ground Water

Project: Archdale, NC
Lab Number ID: AZA0397-12
Date/Time Received: 1/16/2016 10:40:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Volatile Organic Compounds by EPA 8260											
1,1-Dichloroethane	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:45	6010321	ART
1,2-Dichloroethane	0.8	2.0	0.3	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 16:45	6010321	ART
1,1-Dichloroethene	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:45	6010321	ART
cis-1,2-Dichloroethene	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:45	6010321	ART
trans-1,2-Dichloroethene	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:45	6010321	ART
1,2-Dichloropropane	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:45	6010321	ART
1,3-Dichloropropane	ND	2.0	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:45	6010321	ART
2,2-Dichloropropane	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:45	6010321	ART
1,1-Dichloropropene	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:45	6010321	ART
cis-1,3-Dichloropropene	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:45	6010321	ART
trans-1,3-Dichloropropene	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:45	6010321	ART
Ethylbenzene	2.2	2.0	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:45	6010321	ART
Ethyl Methacrylate	ND	10	0.9	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:45	6010321	ART
Hexachlorobutadiene	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:45	6010321	ART
p-Isopropyltoluene	1.3	10	0.4	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 16:45	6010321	ART
Hexachloroethane	ND	10	1.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:45	6010321	ART
Iodomethane	ND	10	0.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:45	6010321	ART
Isopropylbenzene	0.7	10	0.3	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 16:45	6010321	ART
Methacrylonitrile	ND	10	1.2	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:45	6010321	ART
Methyl Acrylate	ND	10	0.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:45	6010321	ART
Methyl Butyl Ketone (2-Hexanone)	ND	10	0.9	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:45	6010321	ART
Methylene Chloride	ND	5.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:45	6010321	ART
Methyl Ethyl Ketone (2-Butanone)	ND	100	1.1	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:45	6010321	ART
Methyl Methacrylate	ND	10	0.9	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:45	6010321	ART
4-Methyl-2-pentanone (MIBK)	ND	10	1.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:45	6010321	ART
Methyl-tert-Butyl Ether	ND	10	0.9	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:45	6010321	ART
Naphthalene	2.4	10	0.3	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 16:45	6010321	ART
2-Nitropropane	ND	10	1.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:45	6010321	ART
Propionitrile (Ethyl Cyanide)	ND	20	1.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:45	6010321	ART
n-Propylbenzene	0.4	10	0.3	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 16:45	6010321	ART
Styrene	ND	5.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:45	6010321	ART
1,1,1,2-Tetrachloroethane	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:45	6010321	ART

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Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 27, 2016

Report No.: AZA0397
Client ID: OW-2
Date/Time Sampled: 1/15/2016 11:20:00AM
Matrix: Ground Water

Project: Archdale, NC
Lab Number ID: AZA0397-12
Date/Time Received: 1/16/2016 10:40:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Volatile Organic Compounds by EPA 8260											
1,1,2,2-Tetrachloroethane	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:45	6010321	ART
Tetrachloroethene	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:45	6010321	ART
Toluene	0.6	2.0	0.3	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 16:45	6010321	ART
1,2,3-Trichlorobenzene	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:45	6010321	ART
1,2,4-Trichlorobenzene	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:45	6010321	ART
1,1,1-Trichloroethane	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:45	6010321	ART
1,1,2-Trichloroethane	ND	2.0	0.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:45	6010321	ART
Trichloroethene	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:45	6010321	ART
Trichlorofluoromethane	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:45	6010321	ART
1,2,3-Trichloropropane	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:45	6010321	ART
1,2,4-Trimethylbenzene	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:45	6010321	ART
1,3,5-Trimethylbenzene	17	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:45	6010321	ART
Vinyl Acetate	ND	10	0.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:45	6010321	ART
Vinyl Chloride	ND	2.0	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:45	6010321	ART
m+p-Xylene	ND	5.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:45	6010321	ART
o-Xylene	5.5	5.0	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:45	6010321	ART
Xylenes, total	5.5	5.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 16:45	6010321	ART
Surrogate: Dibromofluoromethane	*93 %*		*80-120*		*EPA 8260B*			01/18/16 08:30	01/18/16 16:45	*6010321*	
Surrogate: 1,2-Dichloroethane-d4	*104 %*		*78-120*		*EPA 8260B*			01/18/16 08:30	01/18/16 16:45	*6010321*	
Surrogate: Toluene-d8	*96 %*		*80-120*		*EPA 8260B*			01/18/16 08:30	01/18/16 16:45	*6010321*	
Surrogate: 4-Bromofluorobenzene	*96 %*		*80-120*		*EPA 8260B*			01/18/16 08:30	01/18/16 16:45	*6010321*	
Semivolatile Organic Compounds by EPA 8270											
Acenaphthene	ND	10	2.2	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 13:48	6010366	JRS
Acenaphthylene	ND	10	2.1	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 13:48	6010366	JRS
Anthracene	ND	10	1.8	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 13:48	6010366	JRS
Benzo(ghi)perylene	ND	10	2.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 13:48	6010366	JRS
Benzoic acid	ND	50	3.5	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 13:48	6010366	JRS
Benzyl alcohol	ND	20	3.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 13:48	6010366	JRS
Benzyl butyl phthalate	ND	10	3.2	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 13:48	6010366	JRS
4-Bromophenyl phenyl ether	ND	10	1.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 13:48	6010366	JRS
Di-n-butyl phthalate	ND	10	2.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 13:48	6010366	JRS

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Date/Time Sampled: 1/15/2016 11:20:00AM
Matrix: Ground Water

Project: Archdale, NC
Lab Number ID: AZA0397-12
Date/Time Received: 1/16/2016 10:40:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Semivolatile Organic Compounds by EPA 8270											
4-Chloroaniline	ND	20	3.1	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 13:48	6010366	JRS
Bis(2-chloroethoxy)methane	ND	10	3.7	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 13:48	6010366	JRS
Bis(2-chloroethyl)ether	ND	10	4.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 13:48	6010366	JRS
Bis(2-chloroisopropyl)ether	ND	10	3.7	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 13:48	6010366	JRS
4-Chloro-3-methylphenol	ND	10	2.3	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 13:48	6010366	JRS
2-Chloronaphthalene	ND	10	2.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 13:48	6010366	JRS
2-Chlorophenol	ND	10	3.5	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 13:48	6010366	JRS
4-Chlorophenyl phenyl ether	ND	10	1.8	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 13:48	6010366	JRS
3,3´-Dichlorobenzidine	ND	20	2.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 13:48	6010366	JRS
2,4-Dichlorophenol	ND	10	2.8	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 13:48	6010366	JRS
Diethyl phthalate	ND	10	2.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 13:48	6010366	JRS
2,4-Dimethylphenol	ND	10	2.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 13:48	6010366	JRS
Dimethyl phthalate	ND	10	1.7	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 13:48	6010366	JRS
4,6-Dinitro-2-methylphenol	ND	50	3.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 13:48	6010366	JRS
2,4-Dinitrophenol	ND	50	2.8	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 13:48	6010366	JRS
2,4-Dinitrotoluene	ND	20	2.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 13:48	6010366	JRS
2,6-Dinitrotoluene	ND	20	1.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 13:48	6010366	JRS
Bis(2-ethylhexyl)phthalate	ND	10	3.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 13:48	6010366	JRS
Fluoranthene	ND	10	2.2	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 13:48	6010366	JRS
Fluorene	ND	10	1.7	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 13:48	6010366	JRS
Hexachlorobutadiene	ND	10	2.7	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 13:48	6010366	JRS
Hexachlorocyclopentadiene	ND	10	3.3	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 13:48	6010366	JRS
Hexachloroethane	ND	10	3.1	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 13:48	6010366	JRS
Isophorone	ND	10	3.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 13:48	6010366	JRS
2-Methylnaphthalene	ND	10	2.5	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 13:48	6010366	JRS
2-Methylphenol (o-cresol)	ND	10	6.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 13:48	6010366	JRS
3+4-Methylphenol (m+p-cresol)	ND	10	5.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 13:48	6010366	JRS
2-Nitroaniline	ND	50	2.5	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 13:48	6010366	JRS
3-Nitroaniline	ND	50	2.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 13:48	6010366	JRS
4-Nitroaniline	ND	50	3.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 13:48	6010366	JRS
Nitrobenzene	ND	10	3.6	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 13:48	6010366	JRS
2-Nitrophenol	ND	50	3.1	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 13:48	6010366	JRS

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ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Safety-Kleen Corporation - Elgin
1502 E. Villa Street
Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 27, 2016

Report No.: AZA0397
Client ID: OW-2
Date/Time Sampled: 1/15/2016 11:20:00AM
Matrix: Ground Water

Project: Archdale, NC
Lab Number ID: AZA0397-12
Date/Time Received: 1/16/2016 10:40:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Semivolatile Organic Compounds by EPA 8270											
4-Nitrophenol	ND	50	1.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 13:48	6010366	JRS
N-Nitrosodimethylamine	ND	10	3.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 13:48	6010366	JRS
N-Nitrosodiphenylamine/Diphenylamine	ND	10	1.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 13:48	6010366	JRS
N-Nitrosodi-n-propylamine	ND	10	3.6	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 13:48	6010366	JRS
Di-n-octyl phthalate	ND	10	4.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 13:48	6010366	JRS
Phenanthrene	ND	10	1.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 13:48	6010366	JRS
Phenol	ND	10	1.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 13:48	6010366	JRS
Pyrene	ND	10	2.6	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 13:48	6010366	JRS
1,2,4-Trichlorobenzene	ND	10	2.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 13:48	6010366	JRS
2,4,5-Trichlorophenol	ND	10	2.3	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 13:48	6010366	JRS
2,4,6-Trichlorophenol	ND	10	3.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 13:48	6010366	JRS
Surrogate: 2-Fluorophenol	*36 %*		*11-120*		*EPA 8270D*			01/20/16 08:30	01/21/16 13:48	*6010366*	
Surrogate: Phenol-d6	*24 %*		*10-120*		*EPA 8270D*			01/20/16 08:30	01/21/16 13:48	*6010366*	
Surrogate: Nitrobenzene-d5	*60 %*		*15-120*		*EPA 8270D*			01/20/16 08:30	01/21/16 13:48	*6010366*	
Surrogate: 2-Fluorobiphenyl	*75 %*		*23-120*		*EPA 8270D*			01/20/16 08:30	01/21/16 13:48	*6010366*	
Surrogate: 2,4,6-Tribromophenol	*100 %*		*36-120*		*EPA 8270D*			01/20/16 08:30	01/21/16 13:48	*6010366*	
Surrogate: p-Terphenyl-dl4	*86 %*		*53-121*		*EPA 8270D*			01/20/16 08:30	01/21/16 13:48	*6010366*	
Benzo(a)anthracene	0.29	1.0	0.05	ug/L	EPA 8270D	J	1	01/20/16 08:30	01/21/16 19:47	6010366	JRS
Benzo(b)fluoranthene	0.28	1.0	0.02	ug/L	EPA 8270D	J	1	01/20/16 08:30	01/21/16 19:47	6010366	JRS
Benzo(k)fluoranthene	0.30	1.0	0.05	ug/L	EPA 8270D	J	1	01/20/16 08:30	01/21/16 19:47	6010366	JRS
Chrysene	0.29	1.0	0.05	ug/L	EPA 8270D	J	1	01/20/16 08:30	01/21/16 19:47	6010366	JRS
Dibenzo(a,h)anthracene	0.29	1.0	0.14	ug/L	EPA 8270D	J	1	01/20/16 08:30	01/21/16 19:47	6010366	JRS
Benzo(a)pyrene	0.26	1.0	0.06	ug/L	EPA 8270D	J	1	01/20/16 08:30	01/21/16 19:47	6010366	JRS
Indeno(1,2,3-cd)pyrene	0.29	1.0	0.11	ug/L	EPA 8270D	J	1	01/20/16 08:30	01/21/16 19:47	6010366	JRS
Naphthalene	0.36	1.0	0.06	ug/L	EPA 8270D	J	1	01/20/16 08:30	01/21/16 19:47	6010366	JRS
Hexachlorobenzene	ND	1.0	0.06	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 19:47	6010366	JRS
Pentachlorophenol	ND	1.0	0.11	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 19:47	6010366	JRS

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ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Safety-Kleen Corporation - Elgin
1502 E. Villa Street
Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 27, 2016

Report No.: AZA0397
Client ID: OW-3
Date/Time Sampled: 1/14/2016 5:00:00PM
Matrix: Ground Water

Project: Archdale, NC
Lab Number ID: AZA0397-13
Date/Time Received: 1/16/2016 10:40:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Volatile Organic Compounds by EPA 8260											
Acetone	55	100	4.9	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 17:12	6010321	ART
Acrolein	ND	50	1.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:12	6010321	ART
Acrylonitrile	ND	50	1.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:12	6010321	ART
Allyl Chloride (3-Chloropropylene)	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:12	6010321	ART
Benzene	0.5	2.0	0.2	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 17:12	6010321	ART
Bromobenzene	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:12	6010321	ART
Bromochloromethane	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:12	6010321	ART
Bromodichloromethane	ND	10	0.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:12	6010321	ART
Bromoform	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:12	6010321	ART
Bromomethane	ND	10	0.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:12	6010321	ART
n-Butylbenzene	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:12	6010321	ART
sec-Butylbenzene	11	10	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:12	6010321	ART
tert-Butylbenzene	12	10	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:12	6010321	ART
Carbon Disulfide	ND	10	0.9	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:12	6010321	ART
Carbon Tetrachloride	ND	2.0	0.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:12	6010321	ART
Chlorobenzene	18	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:12	6010321	ART
1-Chlorobutane	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:12	6010321	ART
Chloroethane	ND	5.0	0.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:12	6010321	ART
2-Chloroethyl Vinyl Ether	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:12	6010321	ART
Chloroform	ND	2.0	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:12	6010321	ART
Chloromethane	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:12	6010321	ART
2-Chlorotoluene	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:12	6010321	ART
4-Chlorotoluene	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:12	6010321	ART
Dibromochloromethane	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:12	6010321	ART
1,2-Dibromo-3-chloropropane	ND	10	2.0	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:12	6010321	ART
1,2-Dibromoethane	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:12	6010321	ART
Dibromomethane	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:12	6010321	ART
1,2-Dichlorobenzene	4.4	10	0.5	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 17:12	6010321	ART
1,3-Dichlorobenzene	1.5	10	0.3	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 17:12	6010321	ART
1,4-Dichlorobenzene	8.2	10	0.2	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 17:12	6010321	ART
trans-1,4-Dichloro-2-butene	ND	5.0	1.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:12	6010321	ART
Dichlorodifluoromethane	ND	10	0.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:12	6010321	ART

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Safety-Kleen Corporation - Elgin
1502 E. Villa Street
Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 27, 2016

Report No.: AZA0397
Client ID: OW-3
Date/Time Sampled: 1/14/2016 5:00:00PM
Matrix: Ground Water

Project: Archdale, NC
Lab Number ID: AZA0397-13
Date/Time Received: 1/16/2016 10:40:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Volatile Organic Compounds by EPA 8260											
1,1-Dichloroethane	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:12	6010321	ART
1,2-Dichloroethane	ND	2.0	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:12	6010321	ART
1,1-Dichloroethene	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:12	6010321	ART
cis-1,2-Dichloroethene	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:12	6010321	ART
trans-1,2-Dichloroethene	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:12	6010321	ART
1,2-Dichloropropane	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:12	6010321	ART
1,3-Dichloropropane	ND	2.0	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:12	6010321	ART
2,2-Dichloropropane	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:12	6010321	ART
1,1-Dichloropropene	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:12	6010321	ART
cis-1,3-Dichloropropene	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:12	6010321	ART
trans-1,3-Dichloropropene	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:12	6010321	ART
Ethylbenzene	0.4	2.0	0.3	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 17:12	6010321	ART
Ethyl Methacrylate	ND	10	0.9	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:12	6010321	ART
Hexachlorobutadiene	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:12	6010321	ART
p-Isopropyltoluene	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:12	6010321	ART
Hexachloroethane	ND	10	1.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:12	6010321	ART
Iodomethane	ND	10	0.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:12	6010321	ART
Isopropylbenzene	3.4	10	0.3	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 17:12	6010321	ART
Methacrylonitrile	ND	10	1.2	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:12	6010321	ART
Methyl Acrylate	ND	10	0.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:12	6010321	ART
Methyl Butyl Ketone (2-Hexanone)	ND	10	0.9	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:12	6010321	ART
Methylene Chloride	ND	5.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:12	6010321	ART
Methyl Ethyl Ketone (2-Butanone)	4.7	100	1.1	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 17:12	6010321	ART
Methyl Methacrylate	ND	10	0.9	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:12	6010321	ART
4-Methyl-2-pentanone (MIBK)	ND	10	1.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:12	6010321	ART
Methyl-tert-Butyl Ether	8.1	10	0.9	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 17:12	6010321	ART
Naphthalene	4.7	10	0.3	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 17:12	6010321	ART
2-Nitropropane	ND	10	1.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:12	6010321	ART
Propionitrile (Ethyl Cyanide)	ND	20	1.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:12	6010321	ART
n-Propylbenzene	1.3	10	0.3	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 17:12	6010321	ART
Styrene	ND	5.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:12	6010321	ART
1,1,1,2-Tetrachloroethane	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:12	6010321	ART

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Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 27, 2016

Report No.: AZA0397
Client ID: OW-3
Date/Time Sampled: 1/14/2016 5:00:00PM
Matrix: Ground Water

Project: Archdale, NC
Lab Number ID: AZA0397-13
Date/Time Received: 1/16/2016 10:40:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Volatile Organic Compounds by EPA 8260											
1,1,2,2-Tetrachloroethane	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:12	6010321	ART
Tetrachloroethene	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:12	6010321	ART
Toluene	ND	2.0	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:12	6010321	ART
1,2,3-Trichlorobenzene	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:12	6010321	ART
1,2,4-Trichlorobenzene	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:12	6010321	ART
1,1,1-Trichloroethane	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:12	6010321	ART
1,1,2-Trichloroethane	ND	2.0	0.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:12	6010321	ART
Trichloroethene	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:12	6010321	ART
Trichlorofluoromethane	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:12	6010321	ART
1,2,3-Trichloropropane	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:12	6010321	ART
1,2,4-Trimethylbenzene	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:12	6010321	ART
1,3,5-Trimethylbenzene	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:12	6010321	ART
Vinyl Acetate	ND	10	0.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:12	6010321	ART
Vinyl Chloride	ND	2.0	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:12	6010321	ART
m+p-Xylene	ND	5.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:12	6010321	ART
o-Xylene	ND	5.0	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:12	6010321	ART
Xylenes, total	ND	5.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:12	6010321	ART
Surrogate: Dibromofluoromethane	*93 %*		*80-120*		*EPA 8260B*			01/18/16 08:30	01/18/16 17:12	*6010321*	
Surrogate: 1,2-Dichloroethane-d4	*103 %*		*78-120*		*EPA 8260B*			01/18/16 08:30	01/18/16 17:12	*6010321*	
Surrogate: Toluene-d8	*95 %*		*80-120*		*EPA 8260B*			01/18/16 08:30	01/18/16 17:12	*6010321*	
Surrogate: 4-Bromofluorobenzene	*97 %*		*80-120*		*EPA 8260B*			01/18/16 08:30	01/18/16 17:12	*6010321*	
Semivolatile Organic Compounds by EPA 8270											
Acenaphthene	ND	10	2.2	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:10	6010366	JRS
Acenaphthylene	ND	10	2.1	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:10	6010366	JRS
Anthracene	ND	10	1.8	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:10	6010366	JRS
Benzo(ghi)perylene	ND	10	2.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:10	6010366	JRS
Benzoic acid	ND	50	3.5	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:10	6010366	JRS
Benzyl alcohol	ND	20	3.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:10	6010366	JRS
Benzyl butyl phthalate	ND	10	3.2	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:10	6010366	JRS
4-Bromophenyl phenyl ether	ND	10	1.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:10	6010366	JRS
Di-n-butyl phthalate	ND	10	2.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:10	6010366	JRS

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Environmental Monitoring & Laboratory Analysis
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Safety-Kleen Corporation - Elgin
1502 E. Villa Street
Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 27, 2016

Report No.: AZA0397
Client ID: OW-3
Date/Time Sampled: 1/14/2016 5:00:00PM
Matrix: Ground Water

Project: Archdale, NC
Lab Number ID: AZA0397-13
Date/Time Received: 1/16/2016 10:40:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Semivolatile Organic Compounds by EPA 8270											
4-Chloroaniline	ND	20	3.1	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:10	6010366	JRS
Bis(2-chloroethoxy)methane	ND	10	3.7	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:10	6010366	JRS
Bis(2-chloroethyl)ether	ND	10	4.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:10	6010366	JRS
Bis(2-chloroisopropyl)ether	ND	10	3.7	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:10	6010366	JRS
4-Chloro-3-methylphenol	ND	10	2.3	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:10	6010366	JRS
2-Chloronaphthalene	ND	10	2.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:10	6010366	JRS
2-Chlorophenol	ND	10	3.5	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:10	6010366	JRS
4-Chlorophenyl phenyl ether	ND	10	1.8	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:10	6010366	JRS
3,3´-Dichlorobenzidine	ND	20	2.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:10	6010366	JRS
2,4-Dichlorophenol	ND	10	2.8	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:10	6010366	JRS
Diethyl phthalate	4.8	10	2.0	ug/L	EPA 8270D	J	1	01/20/16 08:30	01/21/16 14:10	6010366	JRS
2,4-Dimethylphenol	ND	10	2.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:10	6010366	JRS
Dimethyl phthalate	ND	10	1.7	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:10	6010366	JRS
4,6-Dinitro-2-methylphenol	ND	50	3.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:10	6010366	JRS
2,4-Dinitrophenol	ND	50	2.8	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:10	6010366	JRS
2,4-Dinitrotoluene	ND	20	2.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:10	6010366	JRS
2,6-Dinitrotoluene	ND	20	1.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:10	6010366	JRS
Bis(2-ethylhexyl)phthalate	8.3	10	3.0	ug/L	EPA 8270D	J	1	01/20/16 08:30	01/21/16 14:10	6010366	JRS
Fluoranthene	ND	10	2.2	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:10	6010366	JRS
Fluorene	ND	10	1.7	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:10	6010366	JRS
Hexachlorobutadiene	ND	10	2.7	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:10	6010366	JRS
Hexachlorocyclopentadiene	ND	10	3.3	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:10	6010366	JRS
Hexachloroethane	ND	10	3.1	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:10	6010366	JRS
Isophorone	ND	10	3.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:10	6010366	JRS
2-Methylnaphthalene	3.7	10	2.5	ug/L	EPA 8270D	J	1	01/20/16 08:30	01/21/16 14:10	6010366	JRS
2-Methylphenol (o-cresol)	ND	10	6.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:10	6010366	JRS
3+4-Methylphenol (m+p-cresol)	ND	10	5.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:10	6010366	JRS
2-Nitroaniline	ND	50	2.5	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:10	6010366	JRS
3-Nitroaniline	ND	50	2.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:10	6010366	JRS
4-Nitroaniline	ND	50	3.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:10	6010366	JRS
Nitrobenzene	ND	10	3.6	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:10	6010366	JRS
2-Nitrophenol	ND	50	3.1	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:10	6010366	JRS

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1502 E. Villa Street
Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 27, 2016

Report No.: AZA0397
Client ID: OW-3
Date/Time Sampled: 1/14/2016 5:00:00PM
Matrix: Ground Water

Project: Archdale, NC
Lab Number ID: AZA0397-13
Date/Time Received: 1/16/2016 10:40:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Semivolatile Organic Compounds by EPA 8270											
4-Nitrophenol	ND	50	1.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:10	6010366	JRS
N-Nitrosodimethylamine	ND	10	3.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:10	6010366	JRS
N-Nitrosodiphenylamine/Diphenylamine	ND	10	1.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:10	6010366	JRS
N-Nitrosodi-n-propylamine	ND	10	3.6	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:10	6010366	JRS
Di-n-octyl phthalate	ND	10	4.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:10	6010366	JRS
Phenanthrene	ND	10	1.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:10	6010366	JRS
Phenol	ND	10	1.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:10	6010366	JRS
Pyrene	ND	10	2.6	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:10	6010366	JRS
1,2,4-Trichlorobenzene	ND	10	2.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:10	6010366	JRS
2,4,5-Trichlorophenol	ND	10	2.3	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:10	6010366	JRS
2,4,6-Trichlorophenol	ND	10	3.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:10	6010366	JRS
Surrogate: 2-Fluorophenol	*38 %*		*11-120*		*EPA 8270D*			01/20/16 08:30	01/21/16 14:10	*6010366*	
Surrogate: Phenol-d6	*24 %*		*10-120*		*EPA 8270D*			01/20/16 08:30	01/21/16 14:10	*6010366*	
Surrogate: Nitrobenzene-d5	*65 %*		*15-120*		*EPA 8270D*			01/20/16 08:30	01/21/16 14:10	*6010366*	
Surrogate: 2-Fluorobiphenyl	*79 %*		*23-120*		*EPA 8270D*			01/20/16 08:30	01/21/16 14:10	*6010366*	
Surrogate: 2,4,6-Tribromophenol	*108 %*		*36-120*		*EPA 8270D*			01/20/16 08:30	01/21/16 14:10	*6010366*	
Surrogate: p-Terphenyl-dl4	*85 %*		*53-121*		*EPA 8270D*			01/20/16 08:30	01/21/16 14:10	*6010366*	
Benzo(a)anthracene	ND	1.0	0.05	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 20:13	6010366	JRS
Benzo(b)fluoranthene	ND	1.0	0.02	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 20:13	6010366	JRS
Benzo(k)fluoranthene	ND	1.0	0.05	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 20:13	6010366	JRS
Chrysene	ND	1.0	0.05	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 20:13	6010366	JRS
Dibenzo(a,h)anthracene	ND	1.0	0.14	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 20:13	6010366	JRS
Benzo(a)pyrene	ND	1.0	0.06	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 20:13	6010366	JRS
Indeno(1,2,3-cd)pyrene	ND	1.0	0.11	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 20:13	6010366	JRS
Naphthalene	2.1	1.0	0.06	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 20:13	6010366	JRS
Hexachlorobenzene	ND	1.0	0.06	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 20:13	6010366	JRS
Pentachlorophenol	ND	1.0	0.11	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 20:13	6010366	JRS

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Safety-Kleen Corporation - Elgin
1502 E. Villa Street
Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 27, 2016

Report No.: AZA0397
Client ID: OW-4
Date/Time Sampled: 1/15/2016 10:45:00AM
Matrix: Ground Water

Project: Archdale, NC
Lab Number ID: AZA0397-14
Date/Time Received: 1/16/2016 10:40:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Volatile Organic Compounds by EPA 8260											
Acetone	430	100	24	ug/L	EPA 8260B		5	01/19/16 06:00	01/19/16 07:38	6010321	ART
Acrolein	ND	50	1.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:38	6010321	ART
Acrylonitrile	ND	50	1.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:38	6010321	ART
Allyl Chloride (3-Chloropropylene)	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:38	6010321	ART
Benzene	1.9	2.0	0.2	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 17:38	6010321	ART
Bromobenzene	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:38	6010321	ART
Bromochloromethane	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:38	6010321	ART
Bromodichloromethane	ND	10	0.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:38	6010321	ART
Bromoform	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:38	6010321	ART
Bromomethane	ND	10	0.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:38	6010321	ART
n-Butylbenzene	60	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:38	6010321	ART
sec-Butylbenzene	45	10	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:38	6010321	ART
tert-Butylbenzene	3.8	10	0.3	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 17:38	6010321	ART
Carbon Disulfide	ND	10	0.9	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:38	6010321	ART
Carbon Tetrachloride	ND	2.0	0.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:38	6010321	ART
Chlorobenzene	30	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:38	6010321	ART
1-Chlorobutane	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:38	6010321	ART
Chloroethane	0.6	5.0	0.6	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 17:38	6010321	ART
2-Chloroethyl Vinyl Ether	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:38	6010321	ART
Chloroform	ND	2.0	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:38	6010321	ART
Chloromethane	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:38	6010321	ART
2-Chlorotoluene	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:38	6010321	ART
4-Chlorotoluene	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:38	6010321	ART
Dibromochloromethane	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:38	6010321	ART
1,2-Dibromo-3-chloropropane	ND	10	2.0	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:38	6010321	ART
1,2-Dibromoethane	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:38	6010321	ART
Dibromomethane	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:38	6010321	ART
1,2-Dichlorobenzene	8.6	10	0.5	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 17:38	6010321	ART
1,3-Dichlorobenzene	3.5	10	0.3	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 17:38	6010321	ART
1,4-Dichlorobenzene	7.4	10	0.2	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 17:38	6010321	ART
trans-1,4-Dichloro-2-butene	ND	5.0	1.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:38	6010321	ART
Dichlorodifluoromethane	ND	10	0.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:38	6010321	ART

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Attention: Mr. Bob Schoepke

January 27, 2016

Report No.: AZA0397
Client ID: OW-4
Date/Time Sampled: 1/15/2016 10:45:00AM
Matrix: Ground Water

Project: Archdale, NC
Lab Number ID: AZA0397-14
Date/Time Received: 1/16/2016 10:40:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Volatile Organic Compounds by EPA 8260											
1,1-Dichloroethane	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:38	6010321	ART
1,2-Dichloroethane	1.9	2.0	0.3	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 17:38	6010321	ART
1,1-Dichloroethene	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:38	6010321	ART
cis-1,2-Dichloroethene	0.5	2.0	0.5	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 17:38	6010321	ART
trans-1,2-Dichloroethene	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:38	6010321	ART
1,2-Dichloropropane	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:38	6010321	ART
1,3-Dichloropropane	ND	2.0	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:38	6010321	ART
2,2-Dichloropropane	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:38	6010321	ART
1,1-Dichloropropene	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:38	6010321	ART
cis-1,3-Dichloropropene	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:38	6010321	ART
trans-1,3-Dichloropropene	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:38	6010321	ART
Ethylbenzene	41	2.0	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:38	6010321	ART
Ethyl Methacrylate	ND	10	0.9	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:38	6010321	ART
Hexachlorobutadiene	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:38	6010321	ART
p-Isopropyltoluene	18	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:38	6010321	ART
Hexachloroethane	ND	10	1.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:38	6010321	ART
Iodomethane	ND	10	0.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:38	6010321	ART
Isopropylbenzene	29	10	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:38	6010321	ART
Methacrylonitrile	ND	10	1.2	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:38	6010321	ART
Methyl Acrylate	ND	10	0.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:38	6010321	ART
Methyl Butyl Ketone (2-Hexanone)	ND	10	0.9	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:38	6010321	ART
Methylene Chloride	ND	5.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:38	6010321	ART
Methyl Ethyl Ketone (2-Butanone)	83	100	1.1	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 17:38	6010321	ART
Methyl Methacrylate	ND	10	0.9	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:38	6010321	ART
4-Methyl-2-pentanone (MIBK)	5.1	10	1.7	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 17:38	6010321	ART
Methyl-tert-Butyl Ether	ND	10	0.9	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:38	6010321	ART
Naphthalene	57	10	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:38	6010321	ART
2-Nitropropane	ND	10	1.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:38	6010321	ART
Propionitrile (Ethyl Cyanide)	ND	20	1.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:38	6010321	ART
n-Propylbenzene	51	10	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:38	6010321	ART
Styrene	ND	5.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:38	6010321	ART
1,1,1,2-Tetrachloroethane	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:38	6010321	ART

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ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Safety-Kleen Corporation - Elgin
1502 E. Villa Street
Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 27, 2016

Report No.: AZA0397
Client ID: OW-4
Date/Time Sampled: 1/15/2016 10:45:00AM
Matrix: Ground Water

Project: Archdale, NC
Lab Number ID: AZA0397-14
Date/Time Received: 1/16/2016 10:40:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Volatile Organic Compounds by EPA 8260											
1,1,2,2-Tetrachloroethane	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:38	6010321	ART
Tetrachloroethene	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:38	6010321	ART
Toluene	0.4	2.0	0.3	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 17:38	6010321	ART
1,2,3-Trichlorobenzene	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:38	6010321	ART
1,2,4-Trichlorobenzene	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:38	6010321	ART
1,1,1-Trichloroethane	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:38	6010321	ART
1,1,2-Trichloroethane	ND	2.0	0.8	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:38	6010321	ART
Trichloroethene	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:38	6010321	ART
Trichlorofluoromethane	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:38	6010321	ART
1,2,3-Trichloropropane	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:38	6010321	ART
1,2,4-Trimethylbenzene	110	10	0.3	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:38	6010321	ART
1,3,5-Trimethylbenzene	18	10	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:38	6010321	ART
Vinyl Acetate	ND	10	0.6	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:38	6010321	ART
Vinyl Chloride	ND	2.0	0.7	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:38	6010321	ART
m+p-Xylene	3.9	5.0	0.4	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 17:38	6010321	ART
o-Xylene	2.0	5.0	0.3	ug/L	EPA 8260B	J	1	01/18/16 08:30	01/18/16 17:38	6010321	ART
Xylenes, total	5.8	5.0	0.4	ug/L	EPA 8260B		1	01/18/16 08:30	01/18/16 17:38	6010321	ART
Surrogate: Dibromofluoromethane	*93 %*		*80-120*		*EPA 8260B*			01/19/16 06:00	01/19/16 07:38	*6010321*	
Surrogate: Dibromofluoromethane	*94 %*		*80-120*		*EPA 8260B*			01/18/16 08:30	01/18/16 17:38	*6010321*	
Surrogate: 1,2-Dichloroethane-d4	*97 %*		*78-120*		*EPA 8260B*			01/19/16 06:00	01/19/16 07:38	*6010321*	
Surrogate: 1,2-Dichloroethane-d4	*104 %*		*78-120*		*EPA 8260B*			01/18/16 08:30	01/18/16 17:38	*6010321*	
Surrogate: Toluene-d8	*96 %*		*80-120*		*EPA 8260B*			01/19/16 06:00	01/19/16 07:38	*6010321*	
Surrogate: Toluene-d8	*95 %*		*80-120*		*EPA 8260B*			01/18/16 08:30	01/18/16 17:38	*6010321*	
Surrogate: 4-Bromofluorobenzene	*97 %*		*80-120*		*EPA 8260B*			01/19/16 06:00	01/19/16 07:38	*6010321*	
Surrogate: 4-Bromofluorobenzene	*92 %*		*80-120*		*EPA 8260B*			01/18/16 08:30	01/18/16 17:38	*6010321*	

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Safety-Kleen Corporation - Elgin
1502 E. Villa Street
Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 27, 2016

Report No.: AZA0397
Client ID: OW-4
Date/Time Sampled: 1/15/2016 10:45:00AM
Matrix: Ground Water

Project: Archdale, NC
Lab Number ID: AZA0397-14
Date/Time Received: 1/16/2016 10:40:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Semivolatile Organic Compounds by EPA 8270											
Acenaphthene	ND	10	2.2	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:33	6010366	JRS
Acenaphthylene	ND	10	2.1	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:33	6010366	JRS
Anthracene	ND	10	1.8	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:33	6010366	JRS
Benzo(ghi)perylene	ND	10	2.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:33	6010366	JRS
Benzoic acid	ND	50	3.5	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:33	6010366	JRS
Benzyl alcohol	3.1	20	3.0	ug/L	EPA 8270D	J	1	01/20/16 08:30	01/21/16 14:33	6010366	JRS
Benzyl butyl phthalate	ND	10	3.2	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:33	6010366	JRS
4-Bromophenyl phenyl ether	ND	10	1.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:33	6010366	JRS
Di-n-butyl phthalate	ND	10	2.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:33	6010366	JRS
4-Chloroaniline	ND	20	3.1	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:33	6010366	JRS
Bis(2-chloroethoxy)methane	ND	10	3.7	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:33	6010366	JRS
Bis(2-chloroethyl)ether	ND	10	4.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:33	6010366	JRS
Bis(2-chloroisopropyl)ether	ND	10	3.7	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:33	6010366	JRS
4-Chloro-3-methylphenol	ND	10	2.3	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:33	6010366	JRS
2-Chloronaphthalene	ND	10	2.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:33	6010366	JRS
2-Chlorophenol	ND	10	3.5	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:33	6010366	JRS
4-Chlorophenyl phenyl ether	ND	10	1.8	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:33	6010366	JRS
3,3´-Dichlorobenzidine	ND	20	2.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:33	6010366	JRS
2,4-Dichlorophenol	ND	10	2.8	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:33	6010366	JRS
Diethyl phthalate	ND	10	2.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:33	6010366	JRS
2,4-Dimethylphenol	ND	10	2.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:33	6010366	JRS
Dimethyl phthalate	ND	10	1.7	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:33	6010366	JRS
4,6-Dinitro-2-methylphenol	ND	50	3.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:33	6010366	JRS
2,4-Dinitrophenol	ND	50	2.8	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:33	6010366	JRS
2,4-Dinitrotoluene	ND	20	2.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:33	6010366	JRS
2,6-Dinitrotoluene	ND	20	1.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:33	6010366	JRS
Bis(2-ethylhexyl)phthalate	ND	10	3.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:33	6010366	JRS
Fluoranthene	ND	10	2.2	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:33	6010366	JRS
Fluorene	ND	10	1.7	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:33	6010366	JRS
Hexachlorobutadiene	ND	10	2.7	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:33	6010366	JRS
Hexachlorocyclopentadiene	ND	10	3.3	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:33	6010366	JRS
Hexachloroethane	ND	10	3.1	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:33	6010366	JRS

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Safety-Kleen Corporation - Elgin
1502 E. Villa Street
Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 27, 2016

Report No.: AZA0397
Client ID: OW-4
Date/Time Sampled: 1/15/2016 10:45:00AM
Matrix: Ground Water

Project: Archdale, NC
Lab Number ID: AZA0397-14
Date/Time Received: 1/16/2016 10:40:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Semivolatile Organic Compounds by EPA 8270											
Isophorone	ND	10	3.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:33	6010366	JRS
2-Methylnaphthalene	6.9	10	2.5	ug/L	EPA 8270D	J	1	01/20/16 08:30	01/21/16 14:33	6010366	JRS
2-Methylphenol (o-cresol)	ND	10	6.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:33	6010366	JRS
3+4-Methylphenol (m+p-cresol)	ND	10	5.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:33	6010366	JRS
Naphthalene	35	10	2.6	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:33	6010366	JRS
2-Nitroaniline	ND	50	2.5	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:33	6010366	JRS
3-Nitroaniline	ND	50	2.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:33	6010366	JRS
4-Nitroaniline	ND	50	3.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:33	6010366	JRS
Nitrobenzene	ND	10	3.6	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:33	6010366	JRS
2-Nitrophenol	ND	50	3.1	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:33	6010366	JRS
4-Nitrophenol	ND	50	1.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:33	6010366	JRS
N-Nitrosodimethylamine	ND	10	3.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:33	6010366	JRS
N-Nitrosodiphenylamine/Diphenylamine	ND	10	1.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:33	6010366	JRS
N-Nitrosodi-n-propylamine	ND	10	3.6	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:33	6010366	JRS
Di-n-octyl phthalate	ND	10	4.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:33	6010366	JRS
Phenanthrene	ND	10	1.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:33	6010366	JRS
Phenol	ND	10	1.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:33	6010366	JRS
Pyrene	ND	10	2.6	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:33	6010366	JRS
1,2,4-Trichlorobenzene	ND	10	2.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:33	6010366	JRS
2,4,5-Trichlorophenol	ND	10	2.3	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:33	6010366	JRS
2,4,6-Trichlorophenol	ND	10	3.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:33	6010366	JRS
Surrogate: 2-Fluorophenol	*39 %*		*11-120*		*EPA 8270D*			01/20/16 08:30	01/21/16 14:33	*6010366*	
Surrogate: Phenol-d6	*26 %*		*10-120*		*EPA 8270D*			01/20/16 08:30	01/21/16 14:33	*6010366*	
Surrogate: Nitrobenzene-d5	*66 %*		*15-120*		*EPA 8270D*			01/20/16 08:30	01/21/16 14:33	*6010366*	
Surrogate: 2-Fluorobiphenyl	*46 %*		*23-120*		*EPA 8270D*			01/20/16 08:30	01/21/16 14:33	*6010366*	
Surrogate: 2,4,6-Tribromophenol	*106 %*		*36-120*		*EPA 8270D*			01/20/16 08:30	01/21/16 14:33	*6010366*	
Surrogate: p-Terphenyl-dl4	*82 %*		*53-121*		*EPA 8270D*			01/20/16 08:30	01/21/16 14:33	*6010366*	
Benzo(a)anthracene	0.16	1.0	0.05	ug/L	EPA 8270D	J	1	01/20/16 08:30	01/21/16 20:38	6010366	JRS
Benzo(b)fluoranthene	0.11	1.0	0.02	ug/L	EPA 8270D	J	1	01/20/16 08:30	01/21/16 20:38	6010366	JRS
Benzo(k)fluoranthene	0.12	1.0	0.05	ug/L	EPA 8270D	J	1	01/20/16 08:30	01/21/16 20:38	6010366	JRS
Chrysene	0.09	1.0	0.05	ug/L	EPA 8270D	J	1	01/20/16 08:30	01/21/16 20:38	6010366	JRS
Dibenzo(a,h)anthracene	ND	1.0	0.14	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 20:38	6010366	JRS

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Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 27, 2016

Report No.: AZA0397

Client ID: OW-4

Date/Time Sampled: 1/15/2016 10:45:00AM

Matrix: Ground Water

Project: Archdale, NC

Lab Number ID: AZA0397-14

Date/Time Received: 1/16/2016 10:40:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Semivolatile Organic Compounds by EPA 8270											
Benzo(a)pyrene	0.09	1.0	0.06	ug/L	EPA 8270D	J	1	01/20/16 08:30	01/21/16 20:38	6010366	JRS
Indeno(1,2,3-cd)pyrene	ND	1.0	0.11	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 20:38	6010366	JRS
Hexachlorobenzene	ND	1.0	0.06	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 20:38	6010366	JRS
Pentachlorophenol	ND	1.0	0.11	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 20:38	6010366	JRS

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1502 E. Villa Street
Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 27, 2016

Report No.: AZA0397
Client ID: Duplicate-1
Date/Time Sampled: 1/14/2016 1:55:00PM
Matrix: Ground Water

Project: Archdale, NC
Lab Number ID: AZA0397-15
Date/Time Received: 1/16/2016 10:40:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Volatile Organic Compounds by EPA 8260											
Acetone	ND	100	4.9	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:04	6010321	ART
Acrolein	ND	50	1.6	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:04	6010321	ART
Acrylonitrile	ND	50	1.8	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:04	6010321	ART
Allyl Chloride (3-Chloropropylene)	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:04	6010321	ART
Benzene	ND	2.0	0.2	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:04	6010321	ART
Bromobenzene	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:04	6010321	ART
Bromochloromethane	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:04	6010321	ART
Bromodichloromethane	ND	10	0.6	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:04	6010321	ART
Bromoform	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:04	6010321	ART
Bromomethane	ND	10	0.8	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:04	6010321	ART
n-Butylbenzene	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:04	6010321	ART
sec-Butylbenzene	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:04	6010321	ART
tert-Butylbenzene	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:04	6010321	ART
Carbon Disulfide	ND	10	0.9	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:04	6010321	ART
Carbon Tetrachloride	ND	2.0	0.6	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:04	6010321	ART
Chlorobenzene	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:04	6010321	ART
1-Chlorobutane	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:04	6010321	ART
Chloroethane	ND	5.0	0.6	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:04	6010321	ART
2-Chloroethyl Vinyl Ether	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:04	6010321	ART
Chloroform	ND	2.0	0.3	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:04	6010321	ART
Chloromethane	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:04	6010321	ART
2-Chlorotoluene	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:04	6010321	ART
4-Chlorotoluene	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:04	6010321	ART
Dibromochloromethane	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:04	6010321	ART
1,2-Dibromo-3-chloropropane	ND	10	2.0	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:04	6010321	ART
1,2-Dibromoethane	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:04	6010321	ART
Dibromomethane	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:04	6010321	ART
1,2-Dichlorobenzene	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:04	6010321	ART
1,3-Dichlorobenzene	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:04	6010321	ART
1,4-Dichlorobenzene	ND	10	0.2	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:04	6010321	ART
trans-1,4-Dichloro-2-butene	ND	5.0	1.5	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:04	6010321	ART
Dichlorodifluoromethane	ND	10	0.8	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:04	6010321	ART

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ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Safety-Kleen Corporation - Elgin
1502 E. Villa Street
Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 27, 2016

Report No.: AZA0397
Client ID: Duplicate-1
Date/Time Sampled: 1/14/2016 1:55:00PM
Matrix: Ground Water

Project: Archdale, NC
Lab Number ID: AZA0397-15
Date/Time Received: 1/16/2016 10:40:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Volatile Organic Compounds by EPA 8260											
1,1-Dichloroethane	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:04	6010321	ART
1,2-Dichloroethane	ND	2.0	0.3	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:04	6010321	ART
1,1-Dichloroethene	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:04	6010321	ART
cis-1,2-Dichloroethene	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:04	6010321	ART
trans-1,2-Dichloroethene	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:04	6010321	ART
1,2-Dichloropropane	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:04	6010321	ART
1,3-Dichloropropane	ND	2.0	0.7	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:04	6010321	ART
2,2-Dichloropropane	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:04	6010321	ART
1,1-Dichloropropene	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:04	6010321	ART
cis-1,3-Dichloropropene	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:04	6010321	ART
trans-1,3-Dichloropropene	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:04	6010321	ART
Ethylbenzene	ND	2.0	0.3	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:04	6010321	ART
Ethyl Methacrylate	ND	10	0.9	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:04	6010321	ART
Hexachlorobutadiene	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:04	6010321	ART
p-Isopropyltoluene	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:04	6010321	ART
Hexachloroethane	ND	10	1.4	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:04	6010321	ART
Iodomethane	ND	10	0.6	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:04	6010321	ART
Isopropylbenzene	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:04	6010321	ART
Methacrylonitrile	ND	10	1.2	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:04	6010321	ART
Methyl Acrylate	ND	10	0.8	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:04	6010321	ART
Methyl Butyl Ketone (2-Hexanone)	ND	10	0.9	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:04	6010321	ART
Methylene Chloride	ND	5.0	0.5	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:04	6010321	ART
Methyl Ethyl Ketone (2-Butanone)	ND	100	1.1	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:04	6010321	ART
Methyl Methacrylate	ND	10	0.9	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:04	6010321	ART
4-Methyl-2-pentanone (MIBK)	ND	10	1.7	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:04	6010321	ART
Methyl-tert-Butyl Ether	ND	10	0.9	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:04	6010321	ART
Naphthalene	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:04	6010321	ART
2-Nitropropane	ND	10	1.8	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:04	6010321	ART
Propionitrile (Ethyl Cyanide)	ND	20	1.6	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:04	6010321	ART
n-Propylbenzene	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:04	6010321	ART
Styrene	ND	5.0	0.4	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:04	6010321	ART
1,1,1,2-Tetrachloroethane	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:04	6010321	ART

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Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 27, 2016

Report No.: AZA0397
Client ID: Duplicate-1
Date/Time Sampled: 1/14/2016 1:55:00PM
Matrix: Ground Water

Project: Archdale, NC
Lab Number ID: AZA0397-15
Date/Time Received: 1/16/2016 10:40:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Volatile Organic Compounds by EPA 8260											
1,1,2,2-Tetrachloroethane	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:04	6010321	ART
Tetrachloroethene	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:04	6010321	ART
Toluene	ND	2.0	0.3	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:04	6010321	ART
1,2,3-Trichlorobenzene	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:04	6010321	ART
1,2,4-Trichlorobenzene	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:04	6010321	ART
1,1,1-Trichloroethane	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:04	6010321	ART
1,1,2-Trichloroethane	ND	2.0	0.8	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:04	6010321	ART
Trichloroethene	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:04	6010321	ART
Trichlorofluoromethane	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:04	6010321	ART
1,2,3-Trichloropropane	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:04	6010321	ART
1,2,4-Trimethylbenzene	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:04	6010321	ART
1,3,5-Trimethylbenzene	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:04	6010321	ART
Vinyl Acetate	ND	10	0.6	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:04	6010321	ART
Vinyl Chloride	ND	2.0	0.7	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:04	6010321	ART
m+p-Xylene	ND	5.0	0.4	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:04	6010321	ART
o-Xylene	ND	5.0	0.3	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:04	6010321	ART
Xylenes, total	ND	5.0	0.4	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:04	6010321	ART
Surrogate: Dibromofluoromethane	*91 %*		*80-120*		*EPA 8260B*			01/18/16 09:30	01/18/16 18:04	*6010321*	
Surrogate: 1,2-Dichloroethane-d4	*104 %*		*78-120*		*EPA 8260B*			01/18/16 09:30	01/18/16 18:04	*6010321*	
Surrogate: Toluene-d8	*96 %*		*80-120*		*EPA 8260B*			01/18/16 09:30	01/18/16 18:04	*6010321*	
Surrogate: 4-Bromofluorobenzene	*96 %*		*80-120*		*EPA 8260B*			01/18/16 09:30	01/18/16 18:04	*6010321*	
Semivolatile Organic Compounds by EPA 8270											
Acenaphthene	ND	10	2.2	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:56	6010366	JRS
Acenaphthylene	ND	10	2.1	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:56	6010366	JRS
Anthracene	ND	10	1.8	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:56	6010366	JRS
Benzo(ghi)perylene	ND	10	2.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:56	6010366	JRS
Benzoic acid	ND	50	3.5	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:56	6010366	JRS
Benzyl alcohol	ND	20	3.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:56	6010366	JRS
Benzyl butyl phthalate	ND	10	3.2	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:56	6010366	JRS
4-Bromophenyl phenyl ether	ND	10	1.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:56	6010366	JRS
Di-n-butyl phthalate	ND	10	2.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:56	6010366	JRS

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1502 E. Villa Street
Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 27, 2016

Report No.: AZA0397
Client ID: Duplicate-1
Date/Time Sampled: 1/14/2016 1:55:00PM
Matrix: Ground Water

Project: Archdale, NC
Lab Number ID: AZA0397-15
Date/Time Received: 1/16/2016 10:40:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Semivolatile Organic Compounds by EPA 8270											
4-Chloroaniline	ND	20	3.1	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:56	6010366	JRS
Bis(2-chloroethoxy)methane	ND	10	3.7	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:56	6010366	JRS
Bis(2-chloroethyl)ether	ND	10	4.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:56	6010366	JRS
Bis(2-chloroisopropyl)ether	ND	10	3.7	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:56	6010366	JRS
4-Chloro-3-methylphenol	ND	10	2.3	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:56	6010366	JRS
2-Chloronaphthalene	ND	10	2.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:56	6010366	JRS
2-Chlorophenol	ND	10	3.5	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:56	6010366	JRS
4-Chlorophenyl phenyl ether	ND	10	1.8	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:56	6010366	JRS
3,3´-Dichlorobenzidine	ND	20	2.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:56	6010366	JRS
2,4-Dichlorophenol	ND	10	2.8	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:56	6010366	JRS
Diethyl phthalate	ND	10	2.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:56	6010366	JRS
2,4-Dimethylphenol	ND	10	2.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:56	6010366	JRS
Dimethyl phthalate	ND	10	1.7	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:56	6010366	JRS
4,6-Dinitro-2-methylphenol	ND	50	3.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:56	6010366	JRS
2,4-Dinitrophenol	ND	50	2.8	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:56	6010366	JRS
2,4-Dinitrotoluene	ND	20	2.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:56	6010366	JRS
2,6-Dinitrotoluene	ND	20	1.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:56	6010366	JRS
Bis(2-ethylhexyl)phthalate	ND	10	3.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:56	6010366	JRS
Fluoranthene	ND	10	2.2	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:56	6010366	JRS
Fluorene	ND	10	1.7	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:56	6010366	JRS
Hexachlorobutadiene	ND	10	2.7	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:56	6010366	JRS
Hexachlorocyclopentadiene	ND	10	3.3	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:56	6010366	JRS
Hexachloroethane	ND	10	3.1	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:56	6010366	JRS
Isophorone	ND	10	3.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:56	6010366	JRS
2-Methylnaphthalene	ND	10	2.5	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:56	6010366	JRS
2-Methylphenol (o-cresol)	ND	10	6.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:56	6010366	JRS
3+4-Methylphenol (m+p-cresol)	ND	10	5.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:56	6010366	JRS
2-Nitroaniline	ND	50	2.5	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:56	6010366	JRS
3-Nitroaniline	ND	50	2.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:56	6010366	JRS
4-Nitroaniline	ND	50	3.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:56	6010366	JRS
Nitrobenzene	ND	10	3.6	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:56	6010366	JRS
2-Nitrophenol	ND	50	3.1	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:56	6010366	JRS

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Project: Archdale, NC
Lab Number ID: AZA0397-15
Date/Time Received: 1/16/2016 10:40:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Semivolatile Organic Compounds by EPA 8270											
4-Nitrophenol	ND	50	1.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:56	6010366	JRS
N-Nitrosodimethylamine	ND	10	3.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:56	6010366	JRS
N-Nitrosodiphenylamine/Diphenylamine	ND	10	1.9	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:56	6010366	JRS
N-Nitrosodi-n-propylamine	ND	10	3.6	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:56	6010366	JRS
Di-n-octyl phthalate	ND	10	4.0	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:56	6010366	JRS
Phenanthrene	ND	10	1.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:56	6010366	JRS
Phenol	ND	10	1.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:56	6010366	JRS
Pyrene	ND	10	2.6	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:56	6010366	JRS
1,2,4-Trichlorobenzene	ND	10	2.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:56	6010366	JRS
2,4,5-Trichlorophenol	ND	10	2.3	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:56	6010366	JRS
2,4,6-Trichlorophenol	ND	10	3.4	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 14:56	6010366	JRS
Surrogate: 2-Fluorophenol	*41 %*		*11-120*		*EPA 8270D*			01/20/16 08:30	01/21/16 14:56	*6010366*	
Surrogate: Phenol-d6	*25 %*		*10-120*		*EPA 8270D*			01/20/16 08:30	01/21/16 14:56	*6010366*	
Surrogate: Nitrobenzene-d5	*66 %*		*15-120*		*EPA 8270D*			01/20/16 08:30	01/21/16 14:56	*6010366*	
Surrogate: 2-Fluorobiphenyl	*76 %*		*23-120*		*EPA 8270D*			01/20/16 08:30	01/21/16 14:56	*6010366*	
Surrogate: 2,4,6-Tribromophenol	*97 %*		*36-120*		*EPA 8270D*			01/20/16 08:30	01/21/16 14:56	*6010366*	
Surrogate: p-Terphenyl-dl4	*85 %*		*53-121*		*EPA 8270D*			01/20/16 08:30	01/21/16 14:56	*6010366*	
Benzo(a)anthracene	ND	1.0	0.05	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 21:04	6010366	JRS
Benzo(b)fluoranthene	0.02	1.0	0.02	ug/L	EPA 8270D	J	1	01/20/16 08:30	01/21/16 21:04	6010366	JRS
Benzo(k)fluoranthene	ND	1.0	0.05	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 21:04	6010366	JRS
Chrysene	ND	1.0	0.05	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 21:04	6010366	JRS
Dibenzo(a,h)anthracene	ND	1.0	0.14	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 21:04	6010366	JRS
Benzo(a)pyrene	ND	1.0	0.06	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 21:04	6010366	JRS
Indeno(1,2,3-cd)pyrene	ND	1.0	0.11	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 21:04	6010366	JRS
Naphthalene	ND	1.0	0.06	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 21:04	6010366	JRS
Hexachlorobenzene	ND	1.0	0.06	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 21:04	6010366	JRS
Pentachlorophenol	ND	1.0	0.11	ug/L	EPA 8270D		1	01/20/16 08:30	01/21/16 21:04	6010366	JRS

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ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Safety-Kleen Corporation - Elgin
1502 E. Villa Street
Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 27, 2016

Report No.: AZA0397
Client ID: Trip Blank
Date/Time Sampled: 1/15/2016 12:00:00AM
Matrix: Water

Project: Archdale, NC
Lab Number ID: AZA0397-16
Date/Time Received: 1/16/2016 10:40:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Volatile Organic Compounds by EPA 8260											
Acetone	ND	100	4.9	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:30	6010321	ART
Acrolein	ND	50	1.6	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:30	6010321	ART
Acrylonitrile	ND	50	1.8	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:30	6010321	ART
Allyl Chloride (3-Chloropropylene)	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:30	6010321	ART
Benzene	ND	2.0	0.2	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:30	6010321	ART
Bromobenzene	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:30	6010321	ART
Bromochloromethane	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:30	6010321	ART
Bromodichloromethane	ND	10	0.6	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:30	6010321	ART
Bromoform	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:30	6010321	ART
Bromomethane	ND	10	0.8	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:30	6010321	ART
n-Butylbenzene	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:30	6010321	ART
sec-Butylbenzene	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:30	6010321	ART
tert-Butylbenzene	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:30	6010321	ART
Carbon Disulfide	ND	10	0.9	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:30	6010321	ART
Carbon Tetrachloride	ND	2.0	0.6	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:30	6010321	ART
Chlorobenzene	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:30	6010321	ART
1-Chlorobutane	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:30	6010321	ART
Chloroethane	ND	5.0	0.6	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:30	6010321	ART
2-Chloroethyl Vinyl Ether	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:30	6010321	ART
Chloroform	ND	2.0	0.3	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:30	6010321	ART
Chloromethane	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:30	6010321	ART
2-Chlorotoluene	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:30	6010321	ART
4-Chlorotoluene	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:30	6010321	ART
Dibromochloromethane	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:30	6010321	ART
1,2-Dibromo-3-chloropropane	ND	10	2.0	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:30	6010321	ART
1,2-Dibromoethane	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:30	6010321	ART
Dibromomethane	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:30	6010321	ART
1,2-Dichlorobenzene	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:30	6010321	ART
1,3-Dichlorobenzene	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:30	6010321	ART
1,4-Dichlorobenzene	ND	10	0.2	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:30	6010321	ART
trans-1,4-Dichloro-2-butene	ND	5.0	1.5	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:30	6010321	ART
Dichlorodifluoromethane	ND	10	0.8	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:30	6010321	ART

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Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 27, 2016

Report No.: AZA0397
Client ID: Trip Blank
Date/Time Sampled: 1/15/2016 12:00:00AM
Matrix: Water

Project: Archdale, NC
Lab Number ID: AZA0397-16
Date/Time Received: 1/16/2016 10:40:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Volatile Organic Compounds by EPA 8260											
1,1-Dichloroethane	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:30	6010321	ART
1,2-Dichloroethane	ND	2.0	0.3	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:30	6010321	ART
1,1-Dichloroethene	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:30	6010321	ART
cis-1,2-Dichloroethene	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:30	6010321	ART
trans-1,2-Dichloroethene	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:30	6010321	ART
1,2-Dichloropropane	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:30	6010321	ART
1,3-Dichloropropane	ND	2.0	0.7	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:30	6010321	ART
2,2-Dichloropropane	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:30	6010321	ART
1,1-Dichloropropene	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:30	6010321	ART
cis-1,3-Dichloropropene	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:30	6010321	ART
trans-1,3-Dichloropropene	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:30	6010321	ART
Ethylbenzene	ND	2.0	0.3	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:30	6010321	ART
Ethyl Methacrylate	ND	10	0.9	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:30	6010321	ART
Hexachlorobutadiene	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:30	6010321	ART
p-Isopropyltoluene	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:30	6010321	ART
Hexachloroethane	ND	10	1.4	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:30	6010321	ART
Iodomethane	ND	10	0.6	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:30	6010321	ART
Isopropylbenzene	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:30	6010321	ART
Methacrylonitrile	ND	10	1.2	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:30	6010321	ART
Methyl Acrylate	ND	10	0.8	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:30	6010321	ART
Methyl Butyl Ketone (2-Hexanone)	ND	10	0.9	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:30	6010321	ART
Methylene Chloride	ND	5.0	0.5	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:30	6010321	ART
Methyl Ethyl Ketone (2-Butanone)	ND	100	1.1	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:30	6010321	ART
Methyl Methacrylate	ND	10	0.9	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:30	6010321	ART
4-Methyl-2-pentanone (MIBK)	ND	10	1.7	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:30	6010321	ART
Methyl-tert-Butyl Ether	ND	10	0.9	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:30	6010321	ART
Naphthalene	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:30	6010321	ART
2-Nitropropane	ND	10	1.8	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:30	6010321	ART
Propionitrile (Ethyl Cyanide)	ND	20	1.6	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:30	6010321	ART
n-Propylbenzene	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:30	6010321	ART
Styrene	ND	5.0	0.4	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:30	6010321	ART
1,1,1,2-Tetrachloroethane	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:30	6010321	ART

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1502 E. Villa Street
Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 27, 2016

Report No.: AZA0397
Client ID: Trip Blank
Date/Time Sampled: 1/15/2016 12:00:00AM
Matrix: Water

Project: Archdale, NC
Lab Number ID: AZA0397-16
Date/Time Received: 1/16/2016 10:40:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Volatile Organic Compounds by EPA 8260											
1,1,2,2-Tetrachloroethane	ND	2.0	0.5	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:30	6010321	ART
Tetrachloroethene	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:30	6010321	ART
Toluene	ND	2.0	0.3	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:30	6010321	ART
1,2,3-Trichlorobenzene	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:30	6010321	ART
1,2,4-Trichlorobenzene	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:30	6010321	ART
1,1,1-Trichloroethane	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:30	6010321	ART
1,1,2-Trichloroethane	ND	2.0	0.8	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:30	6010321	ART
Trichloroethene	ND	2.0	0.4	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:30	6010321	ART
Trichlorofluoromethane	ND	10	0.5	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:30	6010321	ART
1,2,3-Trichloropropane	ND	10	0.7	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:30	6010321	ART
1,2,4-Trimethylbenzene	ND	10	0.3	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:30	6010321	ART
1,3,5-Trimethylbenzene	ND	10	0.4	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:30	6010321	ART
Vinyl Acetate	ND	10	0.6	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:30	6010321	ART
Vinyl Chloride	ND	2.0	0.7	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:30	6010321	ART
m+p-Xylene	ND	5.0	0.4	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:30	6010321	ART
o-Xylene	ND	5.0	0.3	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:30	6010321	ART
Xylenes, total	ND	5.0	0.4	ug/L	EPA 8260B		1	01/18/16 09:30	01/18/16 18:30	6010321	ART
Surrogate: Dibromofluoromethane	*92 %*		*80-120*		*EPA 8260B*			01/18/16 09:30	01/18/16 18:30	*6010321*	
Surrogate: 1,2-Dichloroethane-d4	*103 %*		*78-120*		*EPA 8260B*			01/18/16 09:30	01/18/16 18:30	*6010321*	
Surrogate: Toluene-d8	*96 %*		*80-120*		*EPA 8260B*			01/18/16 09:30	01/18/16 18:30	*6010321*	
Surrogate: 4-Bromofluorobenzene	*99 %*		*80-120*		*EPA 8260B*			01/18/16 09:30	01/18/16 18:30	*6010321*	

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1502 E. Villa Street
Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 27, 2016

Report No.: AZA0397

Volatile Organic Compounds by EPA 8260 - Quality Control

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6010321 - EPA 5030B											
Blank (6010321-BLK1)						Prepared & Analyzed: 01/18/16					
Acetone	ND	20	4.9	ug/L							
Acrolein	ND	50	1.6	ug/L							
Acrylonitrile	ND	50	1.8	ug/L							
Allyl Chloride (3-Chloropropylene)	ND	10	0.7	ug/L							
Benzene	ND	2.0	0.2	ug/L							
Bromobenzene	ND	10	0.5	ug/L							
Bromochloromethane	ND	10	0.7	ug/L							
Bromodichloromethane	ND	10	0.6	ug/L							
Bromoform	ND	10	0.5	ug/L							
Bromomethane	ND	10	0.8	ug/L							
n-Butylbenzene	ND	10	0.5	ug/L							
sec-Butylbenzene	ND	10	0.3	ug/L							
tert-Butylbenzene	ND	10	0.3	ug/L							
Carbon Disulfide	ND	10	0.9	ug/L							
Carbon Tetrachloride	ND	2.0	0.6	ug/L							
Chlorobenzene	ND	10	0.4	ug/L							
1-Chlorobutane	ND	10	0.3	ug/L							
Chloroethane	ND	5.0	0.6	ug/L							
2-Chloroethyl Vinyl Ether	ND	10	0.5	ug/L							
Chloroform	ND	2.0	0.3	ug/L							
Chloromethane	ND	10	0.4	ug/L							
2-Chlorotoluene	ND	10	0.5	ug/L							
4-Chlorotoluene	ND	10	0.4	ug/L							
Dibromochloromethane	ND	10	0.4	ug/L							
1,2-Dibromo-3-chloropropane	ND	10	2.0	ug/L							
1,2-Dibromoethane	ND	10	0.7	ug/L							
Dibromomethane	ND	10	0.7	ug/L							
1,2-Dichlorobenzene	ND	10	0.5	ug/L							
1,3-Dichlorobenzene	ND	10	0.3	ug/L							
1,4-Dichlorobenzene	ND	10	0.2	ug/L							
trans-1,4-Dichloro-2-butene	ND	5.0	1.5	ug/L							
Dichlorodifluoromethane	ND	10	0.8	ug/L							
1,1-Dichloroethane	ND	2.0	0.4	ug/L							
1,2-Dichloroethane	ND	2.0	0.3	ug/L							
1,1-Dichloroethene	ND	2.0	0.5	ug/L							
cis-1,2-Dichloroethene	ND	2.0	0.5	ug/L							
trans-1,2-Dichloroethene	ND	2.0	0.5	ug/L							
1,2-Dichloropropane	ND	2.0	0.5	ug/L							
1,3-Dichloropropane	ND	2.0	0.7	ug/L							

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January 27, 2016

Report No.: AZA0397

Volatile Organic Compounds by EPA 8260 - Quality Control

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6010321 - EPA 5030B											
Blank (6010321-BLK1)						Prepared & Analyzed: 01/18/16					
2,2-Dichloropropane	ND	10	0.5	ug/L							
1,1-Dichloropropene	ND	10	0.4	ug/L							
cis-1,3-Dichloropropene	ND	2.0	0.4	ug/L							
trans-1,3-Dichloropropene	ND	2.0	0.4	ug/L							
Ethylbenzene	ND	2.0	0.3	ug/L							
Ethyl Methacrylate	ND	10	0.9	ug/L							
Hexachlorobutadiene	ND	10	0.7	ug/L							
p-Isopropyltoluene	ND	10	0.4	ug/L							
Hexachloroethane	ND	10	1.4	ug/L							
Iodomethane	ND	10	0.6	ug/L							
Isopropylbenzene	ND	10	0.3	ug/L							
Methacrylonitrile	ND	10	1.2	ug/L							
Methyl Acrylate	ND	10	0.8	ug/L							
Methyl Butyl Ketone (2-Hexanone)	ND	10	0.9	ug/L							
Methylene Chloride	ND	5.0	0.5	ug/L							
Methyl Ethyl Ketone (2-Butanone)	ND	100	1.1	ug/L							
Methyl Methacrylate	ND	10	0.9	ug/L							
4-Methyl-2-pentanone (MIBK)	ND	10	1.7	ug/L							
Methyl-tert-Butyl Ether	ND	10	0.9	ug/L							
2-Nitropropane	ND	10	1.8	ug/L							
Propionitrile (Ethyl Cyanide)	ND	20	1.6	ug/L							
n-Propylbenzene	ND	10	0.3	ug/L							
Styrene	ND	5.0	0.4	ug/L							
1,1,1,2-Tetrachloroethane	ND	2.0	0.5	ug/L							
1,1,2,2-Tetrachloroethane	ND	2.0	0.5	ug/L							
Tetrachloroethene	ND	2.0	0.4	ug/L							
Toluene	ND	2.0	0.3	ug/L							
1,2,3-Trichlorobenzene	ND	10	0.5	ug/L							
1,2,4-Trichlorobenzene	ND	10	0.4	ug/L							
1,1,1-Trichloroethane	ND	2.0	0.4	ug/L							
1,1,2-Trichloroethane	ND	2.0	0.8	ug/L							
Trichloroethene	ND	2.0	0.4	ug/L							
Trichlorofluoromethane	ND	10	0.5	ug/L							
1,2,3-Trichloropropane	ND	10	0.7	ug/L							
1,2,4-Trimethylbenzene	ND	10	0.3	ug/L							
1,3,5-Trimethylbenzene	ND	10	0.4	ug/L							
Vinyl Acetate	ND	10	0.6	ug/L							
Vinyl Chloride	ND	2.0	0.7	ug/L							
m+p-Xylene	ND	5.0	0.4	ug/L							

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ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Safety-Kleen Corporation - Elgin
1502 E. Villa Street
Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 27, 2016

Report No.: AZA0397

Volatile Organic Compounds by EPA 8260 - Quality Control

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6010321 - EPA 5030B											
Blank (6010321-BLK1)						Prepared & Analyzed: 01/18/16					
o-Xylene	ND	5.0	0.3	ug/L							
Xylenes, total	ND	5.0	0.4	ug/L							
Surrogate: Dibromofluoromethane	*47*			*ug/L*	*50.000*		*93*	*80-120*			
Surrogate: 1,2-Dichloroethane-d4	*48*			*ug/L*	*50.000*		*97*	*78-120*			
Surrogate: Toluene-d8	*48*			*ug/L*	*50.000*		*96*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*47*			*ug/L*	*50.000*		*94*	*80-120*			
Blank (6010321-BLK2)						Prepared & Analyzed: 01/19/16					
Acetone	ND	100	4.9	ug/L							
Acrolein	ND	50	1.6	ug/L							
Acrylonitrile	ND	50	1.8	ug/L							
Allyl Chloride (3-Chloropropylene)	ND	10	0.7	ug/L							
Benzene	ND	2.0	0.2	ug/L							
Bromobenzene	ND	10	0.5	ug/L							
Bromochloromethane	ND	10	0.7	ug/L							
Bromodichloromethane	ND	10	0.6	ug/L							
Bromoform	ND	10	0.5	ug/L							
Bromomethane	ND	10	0.8	ug/L							
n-Butylbenzene	ND	10	0.5	ug/L							
sec-Butylbenzene	ND	10	0.3	ug/L							
tert-Butylbenzene	ND	10	0.3	ug/L							
Carbon Disulfide	ND	10	0.9	ug/L							
Carbon Tetrachloride	ND	2.0	0.6	ug/L							
Chlorobenzene	ND	10	0.4	ug/L							
1-Chlorobutane	ND	10	0.3	ug/L							
Chloroethane	ND	5.0	0.6	ug/L							
2-Chloroethyl Vinyl Ether	ND	10	0.5	ug/L							
Chloroform	ND	2.0	0.3	ug/L							
Chloromethane	ND	10	0.4	ug/L							
2-Chlorotoluene	ND	10	0.5	ug/L							
4-Chlorotoluene	ND	10	0.4	ug/L							
Dibromochloromethane	ND	10	0.4	ug/L							
1,2-Dibromo-3-chloropropane	ND	10	2.0	ug/L							
1,2-Dibromoethane	ND	10	0.7	ug/L							
Dibromomethane	ND	10	0.7	ug/L							
1,2-Dichlorobenzene	ND	10	0.5	ug/L							
1,3-Dichlorobenzene	ND	10	0.3	ug/L							
1,4-Dichlorobenzene	ND	10	0.2	ug/L							
trans-1,4-Dichloro-2-butene	ND	5.0	1.5	ug/L							
Dichlorodifluoromethane	ND	10	0.8	ug/L							

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Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6010321 - EPA 5030B											
Blank (6010321-BLK2)						Prepared & Analyzed: 01/19/16					
1,1-Dichloroethane	ND	2.0	0.4	ug/L							
1,2-Dichloroethane	ND	2.0	0.3	ug/L							
1,1-Dichloroethene	ND	2.0	0.5	ug/L							
cis-1,2-Dichloroethene	ND	2.0	0.5	ug/L							
trans-1,2-Dichloroethene	ND	2.0	0.5	ug/L							
1,2-Dichloropropane	ND	2.0	0.5	ug/L							
1,3-Dichloropropane	ND	2.0	0.7	ug/L							
2,2-Dichloropropane	ND	10	0.5	ug/L							
1,1-Dichloropropene	ND	10	0.4	ug/L							
cis-1,3-Dichloropropene	ND	2.0	0.4	ug/L							
trans-1,3-Dichloropropene	ND	2.0	0.4	ug/L							
Ethylbenzene	ND	2.0	0.3	ug/L							
Ethyl Methacrylate	ND	10	0.9	ug/L							
Hexachlorobutadiene	ND	10	0.7	ug/L							
p-Isopropyltoluene	ND	10	0.4	ug/L							
Hexachloroethane	ND	10	1.4	ug/L							
Iodomethane	ND	10	0.6	ug/L							
Isopropylbenzene	ND	10	0.3	ug/L							
Methacrylonitrile	ND	10	1.2	ug/L							
Methyl Acrylate	ND	10	0.8	ug/L							
Methyl Butyl Ketone (2-Hexanone)	ND	10	0.9	ug/L							
Methylene Chloride	ND	5.0	0.5	ug/L							
Methyl Ethyl Ketone (2-Butanone)	ND	100	1.1	ug/L							
Methyl Methacrylate	ND	10	0.9	ug/L							
4-Methyl-2-pentanone (MIBK)	ND	10	1.7	ug/L							
Methyl-tert-Butyl Ether	ND	10	0.9	ug/L							
2-Nitropropane	ND	10	1.8	ug/L							
Propionitrile (Ethyl Cyanide)	ND	20	1.6	ug/L							
n-Propylbenzene	ND	10	0.3	ug/L							
Styrene	ND	5.0	0.4	ug/L							
1,1,1,2-Tetrachloroethane	ND	2.0	0.5	ug/L							
1,1,2,2-Tetrachloroethane	ND	2.0	0.5	ug/L							
Tetrachloroethene	ND	2.0	0.4	ug/L							
Toluene	ND	2.0	0.3	ug/L							
1,2,3-Trichlorobenzene	ND	10	0.5	ug/L							
1,2,4-Trichlorobenzene	ND	10	0.4	ug/L							
1,1,1-Trichloroethane	ND	2.0	0.4	ug/L							
1,1,2-Trichloroethane	ND	2.0	0.8	ug/L							
Trichloroethene	ND	2.0	0.4	ug/L							

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Volatile Organic Compounds by EPA 8260 - Quality Control

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6010321 - EPA 5030B											
Blank (6010321-BLK2)						Prepared & Analyzed: 01/19/16					
Trichlorofluoromethane	ND	10	0.5	ug/L							
1,2,3-Trichloropropane	ND	10	0.7	ug/L							
1,2,4-Trimethylbenzene	ND	10	0.3	ug/L							
1,3,5-Trimethylbenzene	ND	10	0.4	ug/L							
Vinyl Acetate	ND	10	0.6	ug/L							
Vinyl Chloride	ND	2.0	0.7	ug/L							
m+p-Xylene	ND	5.0	0.4	ug/L							
o-Xylene	ND	5.0	0.3	ug/L							
Xylenes, total	ND	5.0	0.4	ug/L							
Surrogate: Dibromofluoromethane	*47*			*ug/L*	*50.000*		*94*	*80-120*			
Surrogate: 1,2-Dichloroethane-d4	*50*			*ug/L*	*50.000*		*99*	*78-120*			
Surrogate: Toluene-d8	*48*			*ug/L*	*50.000*		*96*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*51*			*ug/L*	*50.000*		*101*	*80-120*			
LCS (6010321-BS1)						Prepared & Analyzed: 01/18/16					
Benzene	51			ug/L	50.000		103	67-134			
Chlorobenzene	48			ug/L	50.000		97	69-122			
1,1-Dichloroethene	49			ug/L	50.000		99	58-142			
Toluene	50			ug/L	50.000		99	68-127			
Trichloroethene	49			ug/L	50.000		98	72-132			
Surrogate: Dibromofluoromethane	*47*			*ug/L*	*50.000*		*93*	*80-120*			
Surrogate: 1,2-Dichloroethane-d4	*50*			*ug/L*	*50.000*		*101*	*78-120*			
Surrogate: Toluene-d8	*48*			*ug/L*	*50.000*		*96*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*47*			*ug/L*	*50.000*		*94*	*80-120*			
Matrix Spike (6010321-MS1)			**Source: AZA0397-01**			Prepared & Analyzed: 01/18/16					
Benzene	48			ug/L	50.000	ND	96	67-134			
Chlorobenzene	44			ug/L	50.000	ND	89	69-122			
1,1-Dichloroethene	46			ug/L	50.000	ND	93	58-142			
Toluene	47			ug/L	50.000	ND	94	68-127			
Trichloroethene	47			ug/L	50.000	ND	94	72-132			
Surrogate: Dibromofluoromethane	*46*			*ug/L*	*50.000*		*91*	*80-120*			
Surrogate: 1,2-Dichloroethane-d4	*51*			*ug/L*	*50.000*		*103*	*78-120*			
Surrogate: Toluene-d8	*48*			*ug/L*	*50.000*		*97*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*49*			*ug/L*	*50.000*		*97*	*80-120*			

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Volatile Organic Compounds by EPA 8260 - Quality Control

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6010321 - EPA 5030B											
Matrix Spike Dup (6010321-MSD1)			**Source: AZA0397-01**			Prepared & Analyzed: 01/18/16					
Benzene	49			ug/L	50.000	ND	98	67-134	3	9	
Chlorobenzene	45			ug/L	50.000	ND	91	69-122	2	13	
1,1-Dichloroethene	48			ug/L	50.000	ND	96	58-142	4	9	
Toluene	49			ug/L	50.000	ND	98	68-127	4	9	
Trichloroethene	50			ug/L	50.000	ND	100	72-132	6	11	
Surrogate: Dibromofluoromethane	*46*			*ug/L*	*50.000*		*92*	*80-120*			
Surrogate: 1,2-Dichloroethane-d4	*53*			*ug/L*	*50.000*		*106*	*78-120*			
Surrogate: Toluene-d8	*48*			*ug/L*	*50.000*		*96*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*48*			*ug/L*	*50.000*		*96*	*80-120*			

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Report No.: AZA0397

Semivolatile Organic Compounds by EPA 8270 - Quality Control

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6010366 - EPA 3510C											
Blank (6010366-BLK1)						Prepared: 01/20/16 Analyzed: 01/21/16					
Acenaphthene	ND	10	2.2	ug/L							
Acenaphthylene	ND	10	2.1	ug/L							
Anthracene	ND	10	1.8	ug/L							
Benzo(a)anthracene	ND	1.0	0.05	ug/L							
Benzo(b)fluoranthene	ND	1.0	0.02	ug/L							
Benzo(ghi)perylene	ND	10	2.9	ug/L							
Benzo(k)fluoranthene	ND	1.0	0.05	ug/L							
Benzoic acid	ND	50	3.5	ug/L							
Benzyl alcohol	ND	20	3.0	ug/L							
Benzyl butyl phthalate	ND	10	3.2	ug/L							
4-Bromophenyl phenyl ether	ND	10	1.4	ug/L							
Di-n-butyl phthalate	ND	10	2.4	ug/L							
4-Chloroaniline	ND	20	3.1	ug/L							
Bis(2-chloroethoxy)methane	ND	10	3.7	ug/L							
Bis(2-chloroethyl)ether	ND	10	4.9	ug/L							
Bis(2-chloroisopropyl)ether	ND	10	3.7	ug/L							
4-Chloro-3-methylphenol	ND	10	2.3	ug/L							
2-Chloronaphthalene	ND	10	2.9	ug/L							
2-Chlorophenol	ND	10	3.5	ug/L							
4-Chlorophenyl phenyl ether	ND	10	1.8	ug/L							
Chrysene	ND	1.0	0.05	ug/L							
Dibenzo(a,h)anthracene	ND	1.0	0.14	ug/L							
3,3´-Dichlorobenzidine	ND	20	2.4	ug/L							
2,4-Dichlorophenol	ND	10	2.8	ug/L							
Diethyl phthalate	ND	10	2.0	ug/L							
2,4-Dimethylphenol	ND	10	2.4	ug/L							
Dimethyl phthalate	ND	10	1.7	ug/L							
Benzo(a)pyrene	ND	1.0	0.06	ug/L							
4,6-Dinitro-2-methylphenol	ND	50	3.0	ug/L							
2,4-Dinitrophenol	ND	50	2.8	ug/L							
2,4-Dinitrotoluene	ND	20	2.9	ug/L							
2,6-Dinitrotoluene	ND	20	1.9	ug/L							
Bis(2-ethylhexyl)phthalate	ND	10	3.0	ug/L							
Fluoranthene	ND	10	2.2	ug/L							
Fluorene	ND	10	1.7	ug/L							
Hexachlorobutadiene	ND	10	2.7	ug/L							
Hexachlorocyclopentadiene	ND	10	3.3	ug/L							
Hexachloroethane	ND	10	3.1	ug/L							
Indeno(1,2,3-cd)pyrene	ND	1.0	0.11	ug/L							

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Semivolatile Organic Compounds by EPA 8270 - Quality Control

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6010366 - EPA 3510C											
Blank (6010366-BLK1)						Prepared: 01/20/16 Analyzed: 01/21/16					
Isophorone	ND	10	3.0	ug/L							
2-Methylnaphthalene	ND	10	2.5	ug/L							
2-Methylphenol (o-cresol)	ND	10	6.0	ug/L							
3+4-Methylphenol (m+p-cresol)	ND	10	5.0	ug/L							
Naphthalene	ND	1.0	0.06	ug/L							
2-Nitroaniline	ND	50	2.5	ug/L							
3-Nitroaniline	ND	50	2.9	ug/L							
4-Nitroaniline	ND	50	3.4	ug/L							
Nitrobenzene	ND	10	3.6	ug/L							
2-Nitrophenol	ND	50	3.1	ug/L							
4-Nitrophenol	ND	50	1.9	ug/L							
N-Nitrosodimethylamine	ND	10	3.0	ug/L							
N-Nitrosodiphenylamine/Diphenylamine	ND	10	1.9	ug/L							
N-Nitrosodi-n-propylamine	ND	10	3.6	ug/L							
Di-n-octyl phthalate	ND	10	4.0	ug/L							
Phenanthrene	ND	10	1.4	ug/L							
Phenol	ND	10	1.4	ug/L							
Pyrene	ND	10	2.6	ug/L							
1,2,4-Trichlorobenzene	ND	10	2.4	ug/L							
2,4,5-Trichlorophenol	ND	10	2.3	ug/L							
2,4,6-Trichlorophenol	ND	10	3.4	ug/L							
Hexachlorobenzene	ND	1.0	0.06	ug/L							
Pentachlorophenol	ND	1.0	0.11	ug/L							
2,6-Dichlorophenol	ND	20	10	ug/L							
Surrogate: 2-Fluorophenol	*44*			*ug/L*	*100.00*		*44*	*11-120*			
Surrogate: Phenol-d6	*28*			*ug/L*	*100.00*		*28*	*10-120*			
Surrogate: Nitrobenzene-d5	*32*			*ug/L*	*50.000*		*65*	*15-120*			
Surrogate: 2-Fluorobiphenyl	*37*			*ug/L*	*50.000*		*74*	*23-120*			
Surrogate: 2,4,6-Tribromophenol	*85*			*ug/L*	*100.00*		*85*	*36-120*			
Surrogate: p-Terphenyl-dl4	*47*			*ug/L*	*50.000*		*93*	*53-121*			

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January 27, 2016

Report No.: AZA0397

Semivolatile Organic Compounds by EPA 8270 - Quality Control

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6010366 - EPA 3510C											
LCS (6010366-BS1)						Prepared & Analyzed: 01/20/16					
Acenaphthene	48	10	2.2	ug/L	50.000		96	47-120			
4-Chloro-3-methylphenol	91	10	2.3	ug/L	100.00		91	43-120			
2-Chlorophenol	80	10	3.5	ug/L	100.00		80	30-120			
1,4-Dichlorobenzene	35	10	2.5	ug/L	50.000		70	25-120			
2,4-Dinitrotoluene	49	20	2.9	ug/L	50.000		98	55-120			
4-Nitrophenol	23	50	1.9	ug/L	100.00		23	14-120			J
N-Nitrosodi-n-propylamine	41	10	3.6	ug/L	50.000		83	38-120			
Pentachlorophenol	88	20	2.8	ug/L	100.00		88	47-120			
Phenol	30	10	1.4	ug/L	100.00		30	12-120			
Pyrene	51	10	2.6	ug/L	50.000		103	53-120			
1,2,4-Trichlorobenzene	39	10	2.4	ug/L	50.000		77	29-120			
Phenol	ND	20	10	ug/L	100.00			12-120			
4-Nitrophenol	ND	20	10	ug/L	100.00			14-120			
2-Chlorophenol	ND	20	10	ug/L	100.00			30-120			
4-Chloro-3-methylphenol	ND	20	10	ug/L	100.00			43-120			
Surrogate: 2-Fluorophenol	*48*			*ug/L*	*100.00*		*48*	*11-120*			
Surrogate: Phenol-d6	*29*			*ug/L*	*100.00*		*29*	*10-120*			
Surrogate: Nitrobenzene-d5	*35*			*ug/L*	*50.000*		*69*	*15-120*			
Surrogate: 2-Fluorobiphenyl	*42*			*ug/L*	*50.000*		*85*	*23-120*			
Surrogate: 2,4,6-Tribromophenol	*100*			*ug/L*	*100.00*		*100*	*36-120*			
Surrogate: p-Terphenyl-dl4	*53*			*ug/L*	*50.000*		*106*	*53-121*			
Matrix Spike (6010366-MS1)			**Source: AZA0397-02**			Prepared & Analyzed: 01/20/16					
Acenaphthene	44	10	2.2	ug/L	50.000	ND	87	40-120			
4-Chloro-3-methylphenol	86	10	2.3	ug/L	100.00	ND	86	45-120			
2-Chlorophenol	73	10	3.5	ug/L	100.00	ND	73	33-120			
1,4-Dichlorobenzene	33	10	2.5	ug/L	50.000	ND	65	10-120			
2,4-Dinitrotoluene	48	20	2.9	ug/L	50.000	ND	96	46-122			
4-Nitrophenol	40	50	1.9	ug/L	100.00	ND	40	15-120			J
N-Nitrosodi-n-propylamine	39	10	3.6	ug/L	50.000	ND	78	35-120			
Pentachlorophenol	94	20	2.8	ug/L	100.00	ND	94	40-120			
Phenol	37	10	1.4	ug/L	100.00	ND	37	12-120			
Pyrene	47	10	2.6	ug/L	50.000	ND	94	54-120			
1,2,4-Trichlorobenzene	35	10	2.4	ug/L	50.000	ND	70	12-120			
Phenol	ND	20	10	ug/L	100.00	ND		12-120			
4-Nitrophenol	ND	20	10	ug/L	100.00	ND		15-120			
2-Chlorophenol	ND	20	10	ug/L	100.00	ND		33-120			
4-Chloro-3-methylphenol	ND	20	10	ug/L	100.00	ND		45-120			
Surrogate: 2-Fluorophenol	*50*			*ug/L*	*100.00*		*50*	*11-120*			
Surrogate: Phenol-d6	*36*			*ug/L*	*100.00*		*36*	*10-120*			

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Attention: Mr. Bob Schoepke

January 27, 2016

Report No.: AZA0397

Semivolatile Organic Compounds by EPA 8270 - Quality Control

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6010366 - EPA 3510C											
Matrix Spike (6010366-MS1)			**Source: AZA0397-02**			Prepared & Analyzed: 01/20/16					
Surrogate: Nitrobenzene-d5	*32*			*ug/L*	*50.000*		*64*	*15-120*			
Surrogate: 2-Fluorobiphenyl	*37*			*ug/L*	*50.000*		*75*	*23-120*			
Surrogate: 2,4,6-Tribromophenol	*95*			*ug/L*	*100.00*		*95*	*36-120*			
Surrogate: p-Terphenyl-dl4	*48*			*ug/L*	*50.000*		*96*	*53-121*			
Matrix Spike Dup (6010366-MSD1)			**Source: AZA0397-02**			Prepared & Analyzed: 01/20/16					
Acenaphthene	30	10	2.2	ug/L	50.000	ND	60	40-120	37	29	QR-02
4-Chloro-3-methylphenol	62	10	2.3	ug/L	100.00	ND	62	45-120	33	29	QR-02
2-Chlorophenol	49	10	3.5	ug/L	100.00	ND	49	33-120	40	32	QR-02
1,4-Dichlorobenzene	22	10	2.5	ug/L	50.000	ND	43	10-120	41	31	QR-02
2,4-Dinitrotoluene	34	20	2.9	ug/L	50.000	ND	67	46-122	35	26	QR-02
4-Nitrophenol	30	50	1.9	ug/L	100.00	ND	30	15-120	31	35	J
N-Nitrosodi-n-propylamine	26	10	3.6	ug/L	50.000	ND	52	35-120	39	28	QR-02
Pentachlorophenol	68	20	2.8	ug/L	100.00	ND	68	40-120	31	27	QR-02
Phenol	26	10	1.4	ug/L	100.00	ND	26	12-120	36	30	QR-02
Pyrene	31	10	2.6	ug/L	50.000	ND	61	54-120	42	21	QR-02
1,2,4-Trichlorobenzene	24	10	2.4	ug/L	50.000	ND	48	12-120	38	32	QR-02
Phenol	ND	20	10	ug/L	100.00	ND		12-120		30	
4-Nitrophenol	ND	20	10	ug/L	100.00	ND		15-120		35	
2-Chlorophenol	ND	20	10	ug/L	100.00	ND		33-120		32	
4-Chloro-3-methylphenol	ND	20	10	ug/L	100.00	ND		45-120		29	
Surrogate: 2-Fluorophenol	*35*			*ug/L*	*100.00*		*35*	*11-120*			
Surrogate: Phenol-d6	*26*			*ug/L*	*100.00*		*26*	*10-120*			
Surrogate: Nitrobenzene-d5	*21*			*ug/L*	*50.000*		*43*	*15-120*			
Surrogate: 2-Fluorobiphenyl	*26*			*ug/L*	*50.000*		*52*	*23-120*			
Surrogate: 2,4,6-Tribromophenol	*67*			*ug/L*	*100.00*		*67*	*36-120*			
Surrogate: p-Terphenyl-dl4	*33*			*ug/L*	*50.000*		*66*	*53-121*			

ASI

ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Safety-Kleen Corporation - Elgin
1502 E. Villa Street
Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 27, 2016

Laboratory Certifications

Code	Description	Number	Expires
LA	Louisiana	02069	06/30/2016
NC	North Carolina	381	12/31/2016
NELAC	FL DOH (Non-Pot. Water, Solids) Eff:: 07/01/2015	E87315	06/30/2016
SC	South Carolina	98011001	06/30/2016
TX	Texas	T104704397-08-TX	03/31/2016
VA	Virginia	1340	12/14/2016

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January 27, 2016

Legend

Definition of Laboratory Terms

ND - Not Detected at levels equal to or greater than the MDL
BRL - Not Detected at levels equal to or greater than the RL
RL - Reporting Limit **MDL** - Method Detection Limit
SOP - Method run per ASI Standard Operating Procedure
CFU - Colony Forming Units
DF - Dilution Factor **TIC** - Tentatively Identified Compound
***** - Analyte not included in the NELAC list of certified analytes.

Sample Information

N-Nitrosodiphenylamine breaks down to diphenylamine in the GCMS; both analytes are reported as N-Nitrososdiphenylamine. ASI is not NELAC certified for N-Nitrososdiphenylamine.

Phthalic acid and phthalic anhydride are reported as dimethyl phthalate

Maleic acid and maleic anhydride are reported as dimethyl malate

1,2-Diphenylhydrazine breaks down to azobenzene in the GCMS; both analytes are reported as azobenzene

Definition of Qualifiers

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries.

J Estimated value less than Reporting Limit (RL) but greater than Method Detection Limit(MDL) (CLP J-Flag).

Note: Unless otherwise noted, all results are reported on an as received basis.

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Attention: Mr. Bob Schoepke

January 27, 2016

248435

ANALYTICAL SERVICES, INC.
ENVIRONMENTAL MONITORING & LABORATORY ANALYSIS
110 TECHNOLOGY PARKWAY NORCROSS, GA 30092
(770) 734-4200 : FAX (770) 734-4201 : www.asi-lab.com

CHAIN OF CUSTODY RECORD

PAGE: 1 OF 2

CLIENT NAME: ATC / Safety-Kleen Archdale
CLIENT ADDRESS/PHONE NUMBER/FAX NUMBER: 6182 Old Mendenhall Rd, Archdale, NC
REPORT TO: Ashley Winkelman
CC: Genina Olson
REQUESTED COMPLETION DATE: Standard
PO #:
PROJECT NAME/STATE: Safety-kleen Archdale / North Carolina
PROJECT #: SKARCHALI

ANALYSIS REQUESTED

DATE	TIME	MATRIX CODE*	COMP	GRAB	SAMPLE IDENTIFICATION	# of CONTAINERS	SVOC 8270	Volatiles 8260	Volatiles 8260 (unpreserved for 2 CLEVE)	LAB ID NUMBER
					CONTAINER TYPE	A	V	V		
					PRESERVATION	1	1	1		
1/14/2016	13:50	GW		✓	mw-1	6	2	2	2	1
1/14/2016	15:40	GW		✓	mw-2	6	2	2	2	2
1/15/2016	9:30	GW		✓	mw-3	6	2	2	2	3
1/14/2016	15:00	GW		✓	mw-5	6	2	2	2	4
1/14/2016	10:00	GW		✓	mw-6	6	2	2	2	5
1/13/2016	14:35	GW		✓	mw-7	6	2	2	2	6
1/13/2016	13:10	GW		✓	mw-8	6	2	2	2	7
1/14/2016	11:10	GW		✓	mw-9	6	2	2	2	8
1/14/2016	12:05	GW		✓	mw-10	6	2	2	2	9
1/15/2016	10:10	GW		✓	SVE-1	6	2	2	2	10
1/14/2016	16:30	GW		✓	OW-1	6	2	2	2	11
1/15/2016	11:20	GW		✓	OW-2	6	2	2	2	12

CONTAINER TYPE	PRESERVATION
P - PLASTIC	1 - HCl, ≤6°C
A - AMBER GLASS	2 - H_2SO_4, ≤6°C
G - CLEAR GLASS	3 - HNO_3
V - VOA VIAL	4 - NaOH, ≤6°C
S - STERILE	5 - NaOH/ZnAc, ≤6°C
O - OTHER	6 - $Na_2S_2O_3$, ≤6°C
	7 - ≤6°C not frozen

*MATRIX CODES:

DW - DRINKING WATER	S - SOIL
WW - WASTEWATER	SL - SLUDGE
GW - GROUNDWATER	SD - SOLID
SW - SURFACE WATER	A - AIR
ST - STORM WATER	L - LIQUID
W - WATER	P - PRODUCT

REMARKS/ADDITIONAL INFORMATION

SAMPLED BY AND TITLE: Env. Ivonna H. + Miles H. - Scientist — DATE/TIME: 1/15/16 11:20
RELINQUISHED BY: Mike Thurston — DATE/TIME: 1/15/16 1600
RECEIVED BY: — DATE/TIME:
RELINQUISHED BY: — DATE/TIME:
RECEIVED BY LAB: Zahman — DATE/TIME: 01/16/16 1040
SAMPLE SHIPPED VIA: UPS FED-EX USPS COURIER CLIENT OTHER
pH checked: Yes No NA — Ice: Yes No NA — Temperature: 1° Min: 1.2° Max: 6
Custody Seal: Intact Broken Not Present — # of Coolers: 6 — Cooler ID: 7754 3048 6214

FOR LAB USE ONLY
LAB #: AZA0397
Entered into LIMS: MR

Revised 2013-10-31

ANALYTICAL SERVICES, INC.

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110 Technology Parkway, Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Safety-Kleen Corporation - Elgin
1502 E. Villa Street
Elgin IL, 60120

Attention: Mr. Bob Schoepke

January 27, 2016

248436

CHAIN OF CUSTODY RECORD

ANALYTICAL SERVICES, INC.
ENVIRONMENTAL MONITORING & LABORATORY ANALYSIS
110 TECHNOLOGY PARKWAY NORCROSS, GA 30092
(770) 734-4200 : FAX (770) 734-4201 : www.asilab.com

PAGE: 2 OF 2

CLIENT NAME: ATC | Safety Kleen Archdale
CLIENT ADDRESS/PHONE NUMBER/FAX NUMBER: 6182 Old Mendenhall Rd Archdale, NC
REPORT TO: Ashley Winkelman
CC: Ginna Olson
REQUESTED COMPLETION DATE: Standard
PO #:
PROJECT NAME/STATE: Safety Kleen Archdale | North Carolina
PROJECT #: SKARCHAL1

ANALYSIS REQUESTED

DATE	TIME	MATRIX CODE*	COMPOSITE	GRAB	SAMPLE IDENTIFICATION	# of containers	SVOC 8270 (PRESERVATION: 1)	Volatiles 8260 (PRESERVATION: 1)	Volatiles 8260 (unpreserved for 2 CEVE) (PRESERVATION: 1)	REMARKS/ADDITIONAL INFORMATION
1/14/2016	17:00 / 17:15	GW		✓	OW-3	6	2	2	2	13 time of Sample: 17:00
1/15/2016	10:45	GW		✓	OW-4	6	2	2	2	14
1/14/2016	13:55	GW		✓	DUP-1	6	2	2	2	15
1/15/2016	—	W		—	Trip Blank	4		2	2	16

SAMPLED BY AND TITLE: Yvonne H & Miles Hamilton - Sci. — DATE/TIME: 1/15/16 11:20 — RELINQUISHED BY: [signature] — DATE/TIME: 1/15/16 1600
RECEIVED BY: — DATE/TIME: — RELINQUISHED BY: — DATE/TIME:
RECEIVED BY LAB: [signature] — DATE/TIME: 01/16/16 1040 — SAMPLE SHIPPED VIA: UPS FEDEX USPS COURIER CLIENT OTHER
CH Absent/Present: Yes No NA — Cor. Yes No NA — Temperature: — Min: — Max: — Clabby Seal: Intact Broken Not Present — # of Coolers: 6 — Cooler ID:

FOR LAB USE ONLY
LAB #: AZA0397
Entered into LIMS: [initials]

7754 3048 6214

Revised 2013-10-31

ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

LOG-IN CHECKLIST **Printed: 1/27/2016 5:08:47PM**

Attn: Mr. Bob Schoepke

Client: Safety-Kleen Corporation - Elgin
Project: Archdale, NC
Date Received: 01/16/16 10:40

Work Order: AZA0397
Logged In By: Mohammad M. Rahman

OBSERVATIONS

#Samples: 16 **#Containers:** 94

Minimum Temp(C): 1.0 **Maximum Temp(C):** 1.0 **Custody Seal(s) Used:** Yes

CHECKLIST ITEMS

COC included with Samples	YES
Sample Container(s) Intact	YES
Chain of Custody Complete	YES
Sample Container(s) Match COC	YES
Custody seal Intact	YES
Temperature in Compliance	YES
Sufficient Sample Volume for Analysis	YES
Zero Headspace Maintained for VOA Analyses	YES
Samples labeled preserved (If Applicable)	YES
Samples received within Allowable Hold Times	YES
Samples Received on Ice	YES
Preservation Confirmed	YES

Comments:

H&P Mobile Geochemistry Inc.

11 February 2016

Ms. Genna Olson
ATC Associates - Raleigh
2725 E. Millbrook Rd., Suite 121
Raleigh, NC 27604

H&P Project: ATC020316-11
Client Project: Safety-Kleen Archdale

Dear Ms. Genna Olson:

Enclosed is the analytical report for the above referenced project. The data herein applies to samples as received by H&P Mobile Geochemistry, Inc. on 03-Feb-16 which were analyzed in accordance with the attached Chain of Custody record(s).

The results for all sample analyses and required QA/QC analyses are presented in the following sections and summarized in the documents:

- Sample Summary
- Case Narrative (if applicable)
- Sample Results
- Quality Control Summary
- Notes and Definitions / Appendix
- Chain of Custody
- Sampling Logs (if applicable)

Unless otherwise noted, I certify that all analyses were performed and reviewed in compliance with our Quality Systems Manual and Standard Operating Procedures. This report shall not be reproduced, except in full, without the written approval of H&P Mobile Geochemistry, Inc.

We at H&P Mobile Geochemistry, Inc. sincerely appreciate the opportunity to provide analytical services to you on this project. If you have any questions or concerns regarding this analytical report, please contact me at your convenience at 760-804-9678.

Sincerely,

Janis Villarreal

Janis Villarreal
Laboratory Director

H&P Mobile Geochemistry, Inc. is certified under the California ELAP, the National Environmental Laboratory Accreditation Conference (NELAC) and the Department of Defense Accreditation Programs.

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

ATC Associates - Raleigh	Project:	ATC020316-11	
2725 E. Millbrook Rd., Suite 121	Project Number:	Safety-Kleen Archdale	Reported:
Raleigh, NC 27604	Project Manager:	Ms. Genna Olson	11-Feb-16 09:17

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SVE-1 (40" H2O)	E602021-01	Vapor	19-Jan-16	03-Feb-16
SVE-1 (100" H2O)	E602021-02	Vapor	19-Jan-16	03-Feb-16
SVE-2 (40" H2O)	E602021-03	Vapor	20-Jan-16	03-Feb-16
SVE-2 (100" H2O)	E602021-04	Vapor	20-Jan-16	03-Feb-16

The percent recovery for 1,2,4-Trichlorobenzene fell below the method criteria in the continuing calibration verification; any results for this analyte may be biased low.

H&P Mobile
Geochemistry Inc.

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ATC Associates - Raleigh	Project: ATC020316-11	
2725 E. Millbrook Rd., Suite 121	Project Number: Safety-Kleen Archdale	Reported:
Raleigh, NC 27604	Project Manager: Ms. Genna Olson	11-Feb-16 09:17

DETECTIONS SUMMARY

Sample ID: **SVE-1 (40" H2O)** Laboratory ID: **E602021-01**

Analyte	Result	Reporting Limit	Units	Method	Notes
Vinyl chloride	**3.2**	2.6	ug/m3	EPA TO-15	
1,1-Dichloroethane	**10**	4.1	ug/m3	EPA TO-15	
Benzene	**3.9**	3.2	ug/m3	EPA TO-15	
Toluene	**4.0**	3.8	ug/m3	EPA TO-15	
Ethylbenzene	**5.3**	4.4	ug/m3	EPA TO-15	

Sample ID: **SVE-1 (100" H2O)** Laboratory ID: **E602021-02**

Analyte	Result	Reporting Limit	Units	Method	Notes
Vinyl chloride	**4.3**	2.6	ug/m3	EPA TO-15	
Acetone	**64**	24	ug/m3	EPA TO-15	
1,1-Dichloroethane	**33**	4.1	ug/m3	EPA TO-15	
cis-1,2-Dichloroethene	**6.9**	4.0	ug/m3	EPA TO-15	
Benzene	**6.3**	3.2	ug/m3	EPA TO-15	
Toluene	**6.1**	3.8	ug/m3	EPA TO-15	
Ethylbenzene	**33**	4.4	ug/m3	EPA TO-15	

Sample ID: **SVE-2 (40" H2O)** Laboratory ID: **E602021-03**

Analyte	Result	Reporting Limit	Units	Method	Notes
Vinyl chloride	**3.9**	2.6	ug/m3	EPA TO-15	
Toluene	**6.4**	3.8	ug/m3	EPA TO-15	
Ethylbenzene	**12**	4.4	ug/m3	EPA TO-15	

Sample ID: **SVE-2 (100" H2O)** Laboratory ID: **E602021-04**

Analyte	Result	Reporting Limit	Units	Method	Notes
Vinyl chloride	**15**	2.6	ug/m3	EPA TO-15	
cis-1,2-Dichloroethene	**7.4**	4.0	ug/m3	EPA TO-15	
Benzene	**4.2**	3.2	ug/m3	EPA TO-15	
Toluene	**6.6**	3.8	ug/m3	EPA TO-15	
Ethylbenzene	**17**	4.4	ug/m3	EPA TO-15	

H&P Mobile
Geochemistry Inc.

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Carlsbad, CA 92010
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ATC Associates - Raleigh	Project:	ATC020316-11	
2725 E. Millbrook Rd., Suite 121	Project Number:	Safety-Kleen Archdale	Reported:
Raleigh, NC 27604	Project Manager:	Ms. Genna Olson	11-Feb-16 09:17

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SVE-1 (40" H2O) (E602021-01) Vapor Sampled: 19-Jan-16 Received: 03-Feb-16									
Dichlorodifluoromethane (F12)	ND	5.0	ug/m3	1	EB60807	05-Feb-16	05-Feb-16	EPA TO-15	
Chloromethane	ND	2.1	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	7.1	"	"	"	"	"	"	
Vinyl chloride	**3.2**	2.6	"	"	"	"	"	"	
Bromomethane	ND	16	"	"	"	"	"	"	
Chloroethane	ND	8.0	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	5.6	"	"	"	"	"	"	
Acetone	ND	24	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	7.7	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	3.5	"	"	"	"	"	"	
Carbon disulfide	ND	6.3	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	8.0	"	"	"	"	"	"	
1,1-Dichloroethane	**10**	4.1	"	"	"	"	"	"	
2-Butanone (MEK)	ND	30	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
Chloroform	ND	4.9	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.5	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	4.1	"	"	"	"	"	"	
Benzene	**3.9**	3.2	"	"	"	"	"	"	
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"	
Trichloroethene	ND	5.5	"	"	"	"	"	"	
1,2-Dichloropropane	ND	9.4	"	"	"	"	"	"	
Bromodichloromethane	ND	6.8	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	8.3	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
Toluene	**4.0**	3.8	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.5	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	8.3	"	"	"	"	"	"	
Dibromochloromethane	ND	8.6	"	"	"	"	"	"	
Tetrachloroethene	ND	6.9	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	7.8	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
Chlorobenzene	ND	4.7	"	"	"	"	"	"	
Ethylbenzene	**5.3**	4.4	"	"	"	"	"	"	
m,p-Xylene	ND	8.8	"	"	"	"	"	"	
Styrene	ND	4.3	"	"	"	"	"	"	

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ATC Associates - Raleigh	Project:	ATC020316-11	
2725 E. Millbrook Rd., Suite 121	Project Number:	Safety-Kleen Archdale	Reported:
Raleigh, NC 27604	Project Manager:	Ms. Genna Olson	11-Feb-16 09:17

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SVE-1 (40" H2O) (E602021-01) Vapor Sampled: 19-Jan-16 Received: 03-Feb-16									
o-Xylene	ND	4.4	ug/m3	1	EB60807	05-Feb-16	05-Feb-16	EPA TO-15	
Bromoform	ND	10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
4-Ethyltoluene	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Hexachlorobutadiene	ND	54	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*119 %*	*76-134*		*"*	*"*	*"*	*"*	
Surrogate: Toluene-d8		*103 %*	*78-125*		*"*	*"*	*"*	*"*	
SVE-1 (100" H2O) (E602021-02) Vapor Sampled: 19-Jan-16 Received: 03-Feb-16									
Dichlorodifluoromethane (F12)	ND	5.0	ug/m3	1	EB60807	05-Feb-16	05-Feb-16	EPA TO-15	
Chloromethane	ND	2.1	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	7.1	"	"	"	"	"	"	
Vinyl chloride	**4.3**	2.6	"	"	"	"	"	"	
Bromomethane	ND	16	"	"	"	"	"	"	
Chloroethane	ND	8.0	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	5.6	"	"	"	"	"	"	
Acetone	**64**	24	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	7.7	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	3.5	"	"	"	"	"	"	
Carbon disulfide	ND	6.3	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	8.0	"	"	"	"	"	"	
1,1-Dichloroethane	**33**	4.1	"	"	"	"	"	"	
2-Butanone (MEK)	ND	30	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**6.9**	4.0	"	"	"	"	"	"	
Chloroform	ND	4.9	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.5	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	4.1	"	"	"	"	"	"	
Benzene	**6.3**	3.2	"	"	"	"	"	"	
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"	
Trichloroethene	ND	5.5	"	"	"	"	"	"	

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ATC Associates - Raleigh	Project:	ATC020316-11	
2725 E. Millbrook Rd., Suite 121	Project Number:	Safety-Kleen Archdale	Reported:
Raleigh, NC 27604	Project Manager:	Ms. Genna Olson	11-Feb-16 09:17

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SVE-1 (100" H2O) (E602021-02) Vapor Sampled: 19-Jan-16 Received: 03-Feb-16									
1,2-Dichloropropane	ND	9.4	ug/m3	1	EB60807	05-Feb-16	05-Feb-16	EPA TO-15	
Bromodichloromethane	ND	6.8	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	8.3	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
Toluene	**6.1**	3.8	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.5	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	8.3	"	"	"	"	"	"	
Dibromochloromethane	ND	8.6	"	"	"	"	"	"	
Tetrachloroethene	ND	6.9	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	7.8	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
Chlorobenzene	ND	4.7	"	"	"	"	"	"	
Ethylbenzene	**33**	4.4	"	"	"	"	"	"	
m,p-Xylene	ND	8.8	"	"	"	"	"	"	
Styrene	ND	4.3	"	"	"	"	"	"	
o-Xylene	ND	4.4	"	"	"	"	"	"	
Bromoform	ND	10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
4-Ethyltoluene	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Hexachlorobutadiene	ND	54	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*114 %*	*76-134*		*"*	*"*	*"*	*"*	
Surrogate: Toluene-d8		*101 %*	*78-125*		*"*	*"*	*"*	*"*	

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ATC Associates - Raleigh	Project:	ATC020316-11	
2725 E. Millbrook Rd., Suite 121	Project Number:	Safety-Kleen Archdale	Reported:
Raleigh, NC 27604	Project Manager:	Ms. Genna Olson	11-Feb-16 09:17

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SVE-2 (40" H2O) (E602021-03) Vapor Sampled: 20-Jan-16 Received: 03-Feb-16									
Dichlorodifluoromethane (F12)	ND	5.0	ug/m3	1	EB60807	05-Feb-16	05-Feb-16	EPA TO-15	
Chloromethane	ND	2.1	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	7.1	"	"	"	"	"	"	
Vinyl chloride	**3.9**	2.6	"	"	"	"	"	"	
Bromomethane	ND	16	"	"	"	"	"	"	
Chloroethane	ND	8.0	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	5.6	"	"	"	"	"	"	
Acetone	ND	24	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	7.7	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	3.5	"	"	"	"	"	"	
Carbon disulfide	ND	6.3	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	8.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"	
2-Butanone (MEK)	ND	30	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
Chloroform	ND	4.9	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.5	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	4.1	"	"	"	"	"	"	
Benzene	ND	3.2	"	"	"	"	"	"	
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"	
Trichloroethene	ND	5.5	"	"	"	"	"	"	
1,2-Dichloropropane	ND	9.4	"	"	"	"	"	"	
Bromodichloromethane	ND	6.8	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	8.3	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
Toluene	**6.4**	3.8	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.5	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	8.3	"	"	"	"	"	"	
Dibromochloromethane	ND	8.6	"	"	"	"	"	"	
Tetrachloroethene	ND	6.9	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	7.8	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
Chlorobenzene	ND	4.7	"	"	"	"	"	"	
Ethylbenzene	**12**	4.4	"	"	"	"	"	"	
m,p-Xylene	ND	8.8	"	"	"	"	"	"	
Styrene	ND	4.3	"	"	"	"	"	"	

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ATC Associates - Raleigh	Project:	ATC020316-11	
2725 E. Millbrook Rd., Suite 121	Project Number:	Safety-Kleen Archdale	Reported:
Raleigh, NC 27604	Project Manager:	Ms. Genna Olson	11-Feb-16 09:17

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SVE-2 (40" H2O) (E602021-03) Vapor Sampled: 20-Jan-16 Received: 03-Feb-16									
o-Xylene	ND	4.4	ug/m3	1	EB60807	05-Feb-16	05-Feb-16	EPA TO-15	
Bromoform	ND	10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
4-Ethyltoluene	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Hexachlorobutadiene	ND	54	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*108 %*	*76-134*		*"*	*"*	*"*	*"*	
Surrogate: Toluene-d8		*98.0 %*	*78-125*		*"*	*"*	*"*	*"*	
SVE-2 (100" H2O) (E602021-04) Vapor Sampled: 20-Jan-16 Received: 03-Feb-16									
Dichlorodifluoromethane (F12)	ND	5.0	ug/m3	1	EB60807	05-Feb-16	05-Feb-16	EPA TO-15	
Chloromethane	ND	2.1	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	7.1	"	"	"	"	"	"	
Vinyl chloride	**15**	2.6	"	"	"	"	"	"	
Bromomethane	ND	16	"	"	"	"	"	"	
Chloroethane	ND	8.0	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	5.6	"	"	"	"	"	"	
Acetone	ND	24	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	7.7	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	3.5	"	"	"	"	"	"	
Carbon disulfide	ND	6.3	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	8.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"	
2-Butanone (MEK)	ND	30	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**7.4**	4.0	"	"	"	"	"	"	
Chloroform	ND	4.9	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.5	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	4.1	"	"	"	"	"	"	
Benzene	**4.2**	3.2	"	"	"	"	"	"	
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"	
Trichloroethene	ND	5.5	"	"	"	"	"	"	

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ATC Associates - Raleigh	Project:	ATC020316-11	
2725 E. Millbrook Rd., Suite 121	Project Number:	Safety-Kleen Archdale	Reported:
Raleigh, NC 27604	Project Manager:	Ms. Genna Olson	11-Feb-16 09:17

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SVE-2 (100" H2O) (E602021-04) Vapor Sampled: 20-Jan-16 Received: 03-Feb-16									
1,2-Dichloropropane	ND	9.4	ug/m3	1	EB60807	05-Feb-16	05-Feb-16	EPA TO-15	
Bromodichloromethane	ND	6.8	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	8.3	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
Toluene	**6.6**	3.8	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.5	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	8.3	"	"	"	"	"	"	
Dibromochloromethane	ND	8.6	"	"	"	"	"	"	
Tetrachloroethene	ND	6.9	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	7.8	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
Chlorobenzene	ND	4.7	"	"	"	"	"	"	
Ethylbenzene	**17**	4.4	"	"	"	"	"	"	
m,p-Xylene	ND	8.8	"	"	"	"	"	"	
Styrene	ND	4.3	"	"	"	"	"	"	
o-Xylene	ND	4.4	"	"	"	"	"	"	
Bromoform	ND	10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
4-Ethyltoluene	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Hexachlorobutadiene	ND	54	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*110 %*	*76-134*		"	"	"	"	
Surrogate: Toluene-d8		*98.0 %*	*78-125*		"	"	"	"	

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ATC Associates - Raleigh	Project: ATC020316-11	
2725 E. Millbrook Rd., Suite 121	Project Number: Safety-Kleen Archdale	Reported:
Raleigh, NC 27604	Project Manager: Ms. Genna Olson	11-Feb-16 09:17

Volatile Organic Compounds by EPA TO-15 - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB60807 - TO-15										
Blank (EB60807-BLK1)				Prepared & Analyzed: 05-Feb-16						
Dichlorodifluoromethane (F12)	ND	5.0	ug/m3							
Chloromethane	ND	2.1	"							
Dichlorotetrafluoroethane (F114)	ND	7.1	"							
Vinyl chloride	ND	2.6	"							
Bromomethane	ND	16	"							
Chloroethane	ND	8.0	"							
Trichlorofluoromethane (F11)	ND	5.6	"							
Acetone	ND	24	"							
1,1-Dichloroethene	ND	4.0	"							
1,1,2-Trichlorotrifluoroethane (F113)	ND	7.7	"							
Methylene chloride (Dichloromethane)	ND	3.5	"							
Carbon disulfide	ND	6.3	"							
trans-1,2-Dichloroethene	ND	8.0	"							
1,1-Dichloroethane	ND	4.1	"							
2-Butanone (MEK)	ND	30	"							
cis-1,2-Dichloroethene	ND	4.0	"							
Chloroform	ND	4.9	"							
1,1,1-Trichloroethane	ND	5.5	"							
1,2-Dichloroethane (EDC)	ND	4.1	"							
Benzene	ND	3.2	"							
Carbon tetrachloride	ND	6.4	"							
Trichloroethene	ND	5.5	"							
1,2-Dichloropropane	ND	9.4	"							
Bromodichloromethane	ND	6.8	"							
cis-1,3-Dichloropropene	ND	4.6	"							
4-Methyl-2-pentanone (MIBK)	ND	8.3	"							
trans-1,3-Dichloropropene	ND	4.6	"							
Toluene	ND	3.8	"							
1,1,2-Trichloroethane	ND	5.5	"							
2-Hexanone (MBK)	ND	8.3	"							
Dibromochloromethane	ND	8.6	"							
Tetrachloroethene	ND	6.9	"							
1,2-Dibromoethane (EDB)	ND	7.8	"							
1,1,1,2-Tetrachloroethane	ND	7.0	"							

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2725 E. Millbrook Rd., Suite 121	Project Number: Safety-Kleen Archdale	Reported:
Raleigh, NC 27604	Project Manager: Ms. Genna Olson	11-Feb-16 09:17

Volatile Organic Compounds by EPA TO-15 - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB60807 - TO-15										
Blank (EB60807-BLK1)				Prepared & Analyzed: 05-Feb-16						
Chlorobenzene	ND	4.7	ug/m3							
Ethylbenzene	ND	4.4	"							
m,p-Xylene	ND	8.8	"							
Styrene	ND	4.3	"							
o-Xylene	ND	4.4	"							
Bromoform	ND	10	"							
1,1,2,2-Tetrachloroethane	ND	7.0	"							
4-Ethyltoluene	ND	5.0	"							
1,3,5-Trimethylbenzene	ND	5.0	"							
1,2,4-Trimethylbenzene	ND	5.0	"							
1,3-Dichlorobenzene	ND	12	"							
1,4-Dichlorobenzene	ND	12	"							
1,2-Dichlorobenzene	ND	12	"							
1,2,4-Trichlorobenzene	ND	38	"							
Hexachlorobutadiene	ND	54	"							
Surrogate: 1,2-Dichloroethane-d4	*251*		*"*	*214*		*117*	*76-134*			
Surrogate: Toluene-d8	*209*		*"*	*207*		*101*	*78-125*			
LCS (EB60807-BS1)				Prepared & Analyzed: 05-Feb-16						
Dichlorodifluoromethane (F12)	130	5.0	ug/m3	101		132	70-130			QL-1H
Vinyl chloride	60	2.6	"	52.0		116	70-130			
Chloroethane	48	8.0	"	53.6		89.9	70-130			
Trichlorofluoromethane (F11)	130	5.6	"	113		111	70-130			
1,1-Dichloroethene	93	4.0	"	80.8		115	70-130			
1,1,2-Trichlorotrifluoroethane (F113)	170	7.7	"	155		111	70-130			
Methylene chloride (Dichloromethane)	76	3.5	"	70.8		107	70-130			
trans-1,2-Dichloroethene	83	8.0	"	80.8		103	70-130			
1,1-Dichloroethane	89	4.1	"	82.4		108	70-130			
cis-1,2-Dichloroethene	85	4.0	"	80.0		107	70-130			
Chloroform	110	4.9	"	99.2		111	70-130			
1,1,1-Trichloroethane	120	5.5	"	111		107	70-130			
1,2-Dichloroethane (EDC)	94	4.1	"	82.4		114	70-130			
Benzene	69	3.2	"	64.8		107	70-130			

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2725 E. Millbrook Rd., Suite 121	Project Number: Safety-Kleen Archdale	Reported:
Raleigh, NC 27604	Project Manager: Ms. Genna Olson	11-Feb-16 09:17

Volatile Organic Compounds by EPA TO-15 - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB60807 - TO-15										
LCS (EB60807-BS1)				Prepared & Analyzed: 05-Feb-16						
Carbon tetrachloride	140	6.4	ug/m3	128		109	70-130			
Trichloroethene	110	5.5	"	110		101	70-130			
Toluene	73	3.8	"	76.8		95.6	70-130			
1,1,2-Trichloroethane	100	5.5	"	111		94.4	70-130			
Tetrachloroethene	110	6.9	"	138		81.9	70-130			
1,1,1,2-Tetrachloroethane	120	7.0	"	140		82.7	70-130			
Ethylbenzene	68	4.4	"	88.4		76.7	70-130			
m,p-Xylene	69	8.8	"	88.4		78.1	70-130			
o-Xylene	68	4.4	"	88.4		77.0	70-130			
1,1,2,2-Tetrachloroethane	110	7.0	"	140		77.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	*256*		*"*	*214*		*120*	*76-134*			
Surrogate: Toluene-d8	*210*		*"*	*207*		*101*	*78-125*			
LCS Dup (EB60807-BSD1)				Prepared & Analyzed: 05-Feb-16						
Dichlorodifluoromethane (F12)	130	5.0	ug/m3	101		133	70-130	0.600	25	QL-1H
Vinyl chloride	61	2.6	"	52.0		117	70-130	1.58	25	
Chloroethane	48	8.0	"	53.6		88.7	70-130	1.29	25	
Trichlorofluoromethane (F11)	110	5.6	"	113		100	70-130	10.5	25	
1,1-Dichloroethene	94	4.0	"	80.8		117	70-130	1.81	25	
1,1,2-Trichlorotrifluoroethane (F113)	170	7.7	"	155		110	70-130	0.902	25	
Methylene chloride (Dichloromethane)	78	3.5	"	70.8		110	70-130	2.90	25	
trans-1,2-Dichloroethene	85	8.0	"	80.8		105	70-130	1.63	25	
1,1-Dichloroethane	89	4.1	"	82.4		107	70-130	0.555	25	
cis-1,2-Dichloroethene	86	4.0	"	80.0		108	70-130	1.27	25	
Chloroform	110	4.9	"	99.2		113	70-130	1.51	25	
1,1,1-Trichloroethane	120	5.5	"	111		106	70-130	1.35	25	
1,2-Dichloroethane (EDC)	94	4.1	"	82.4		115	70-130	0.131	25	
Benzene	68	3.2	"	64.8		106	70-130	1.36	25	
Carbon tetrachloride	140	6.4	"	128		110	70-130	0.228	25	
Trichloroethene	110	5.5	"	110		101	70-130	0.540	25	
Toluene	73	3.8	"	76.8		95.5	70-130	0.104	25	
1,1,2-Trichloroethane	100	5.5	"	111		94.2	70-130	0.210	25	
Tetrachloroethene	120	6.9	"	138		84.4	70-130	3.00	25	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

ATC Associates - Raleigh	Project: ATC020316-11	
2725 E. Millbrook Rd., Suite 121	Project Number: Safety-Kleen Archdale	Reported:
Raleigh, NC 27604	Project Manager: Ms. Genna Olson	11-Feb-16 09:17

Volatile Organic Compounds by EPA TO-15 - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB60807 - TO-15										
LCS Dup (EB60807-BSD1)				Prepared & Analyzed: 05-Feb-16						
1,1,1,2-Tetrachloroethane	120	7.0	ug/m3	140		83.8	70-130	1.26	25	
Ethylbenzene	68	4.4	"	88.4		76.9	70-130	0.324	25	
m,p-Xylene	69	8.8	"	88.4		77.5	70-130	0.767	25	
o-Xylene	69	4.4	"	88.4		78.1	70-130	1.47	25	
1,1,2,2-Tetrachloroethane	110	7.0	"	140		77.0	70-130	0.516	25	
Surrogate: 1,2-Dichloroethane-d4	*255*		*"*	*214*		*119*	*76-134*			
Surrogate: Toluene-d8	*211*		*"*	*207*		*102*	*78-125*			

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ATC Associates - Raleigh	Project:	ATC020316-11	
2725 E. Millbrook Rd., Suite 121	Project Number:	Safety-Kleen Archdale	Reported:
Raleigh, NC 27604	Project Manager:	Ms. Genna Olson	11-Feb-16 09:17

Notes and Definitions

QL-1H	The LCS and/or LCSD recoveries fell above the established control specifications for this analyte. Any result for this compound is qualified and should be considered biased high.
LCC	Leak Check Compound
ND	Analyte NOT DETECTED at or above the reporting limit
MDL	Method Detection Limit
%REC	Percent Recovery
RPD	Relative Percent Difference

Appendix

H&P Mobile Geochemistry, Inc. is approved as an Environmental Testing Laboratory and Mobile Laboratory in accordance with the DoD-ELAP and the ISO 17025 programs, certification number L11-175.

H&P is approved by the State of Arizona as an Environmental Testing Laboratory and Mobile Laboratory, certification numbers AZM758 and AZ0779.

H&P is approved by the State of California as an Environmental Laboratory and Mobile Laboratory in conformance with the Environmental Laboratory Accreditation Program (ELAP) for the category of Volatile and Semi-Volatile Organic Chemistry of Hazardous Waste, certification numbers 2740, 2741, 2743, 2744, 2745, 2754 & 2930.

H&P is approved by the State of Florida Department of Health under the National Environmental Laboratory Accreditation Conference (NELAC) certification number E871100.

The complete list of stationary and mobile laboratory certifications along with the fields of testing (FOTs) and analyte lists are available at www.handpmg.com/about/certifications.

H&P Mobile Geochemistry, Inc.
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VAPOR / AIR Chain of Custody

DATE: 1/28/16
Page 1 of 1

Lab Client and Project Information

Lab Client/Consultant: ATC ASSOCIATES	Project Name / #: SKARCHDALZ
Lab Client Project Manager: GENNA OLSON	Project Location: SAFETY-KLEEN ARCHDALE
Lab Client Address: 2725 E. MILLBROOK RD, SUITE 121	Report E-Mail(s): genna.olson@atcassociates.com ashley.winkelman@atcassociates.com
Lab Client City, State, Zip: RALEIGH, NC 27604	
Phone Number: 919-871-0999	

Sample Receipt (Lab Use Only)

Date Rec'd: 2/3/16	Control #: 1600025.01
H&P Project # ATC020316-11	
Lab Work Order # E602021	
Sample Intact: ☒ Yes ☐ No ☐ See Notes Below	
Receipt Gauge ID: 11167	Temp: RT
Outside Lab:	
Receipt Notes/Tracking #: 1Z93T61906147240 0	
Lab PM Initials: KRI	

Reporting Requirements

☑ Standard Report ☐ Level III ☐ Level IV
☐ Excel EDD ☐ Other EDD:_____
☐ CA Geotracker Global ID:_____

Turnaround Time

☑ 5-7 day Stnd ☐ 24-Hr Rush
☐ 3-day Rush ☐ Mobile Lab
☐ 48-Hr Rush ☐ Other:_____

Sampler Information

Sampler(s): CHRIS YOUNG / BRAD BYERS
Signature: Christopher R Young
Date: 1/28/16

Additional Instructions to Laboratory: UPS Track # 1Z 93T T61 90 5147 2400

☐ Check if Project Analyte List is Attached

** Preferred VOC units (please choose one):*
☐ µg/L ☑ µg/m³ ☐ ppbv ☐ ppmv

SAMPLE NAME	FIELD POINT NAME (if applicable)	DATE mm/dd/yy	TIME 24hr clock	SAMPLE TYPE Indoor Air (IA), Ambient Air (AA), Subslab (SS), Soil Vapor (SV)	CONTAINER SIZE & TYPE 400mL/1L/6L Summa or Tedlar or Tube	CONTAINER ID (###)	Lab use only: Receipt Vac	VOCs Standard Full List ☐ 8260SV ☑ TO-15	VOCs Short List / Project List ☐ 8260SV ☐ TO-15	Oxygenates ☐ 8260SV ☐ TO-15	Naphthalene ☐ 8260SV ☐ TO-15 ☐ TO-17m	TPHv as Gas ☐ 8260SVm ☐ TO-15m	TPHv as Diesel (sorbent tube) ☐ TO-17m	Aromatic/Aliphatic Fractions ☐ 8260SVm ☐ TO-15m	Leak Check Compound ☐ DFA ☐ IPA ☐ He	Methane by EPA 8015m	Fixed Gases by ASTM D1945 ☐ CO2 ☐ O2 ☐ N2			
SVE-1 (40" H2O)	#352	1/19/16	1335	SVE	SUMMA	352	.86	X												
SVE-1 (100" H2O)	#059	1/19/16	1220	SVE	SUMMA	059	1.03	X												
SVE-2 (40" H2O)	#054	1/20/16	1030	SVE	SUMMA	054	.76	X												
SVE-2 (100" H2O)	#052	1/20/16	1258	SVE	SUMMA	052	-.21	X												

Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:
Christopher R Young	ATC ASSOCIATES	1/28/16	1730	Jon Unsworth	H&P	2/3/16	1000
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:

*Approval constitutes as authorization to proceed with analysis and acceptance of conditions on back

APPENDIX C

GROUNDWATER EXTRACTION PILOT TEST DATA

DPE Pilot Test
Safety-Kleen Archdale Facility
Archdale, North Carolina

Project Name:	Safety-Kleen Archdale		
Project No:	SKARCHDAL1		
Well ID:	**MW-4**	Field Operatives:	
Date:	January 21, 2016	Chris Young and Robert Broda	
Subcontractor	Clean Harbors	ATC Associates of NC, PC	

Measurements During DPE Pilot Test

	Stack Outlet				Vac Truck	Non-DPE Wells							
						MW-4		MW-5		MW-9		MW-10	
Time	Air Flow (ft/min)	Temperature (Fahrenheit)	R.H. (%)	TLV (ppm)	Vacuum (in of Hg)	DTW (feet)	Vacuum (in of H2O)	DTW (feet)	Vacuum (in of H2O)	DTW (feet)	Vacuum (in of H2O)	DTW (feet)	Vacuum (in of H2O)
11:30	**Pre-test DTW Measurements**					12.56	-	5.24	-	7.76	-	4.87	-
12:00	**Started vacuum truck. Stinger hose at 25.5 feet. Vacuum at approx. 15 in of Hg.**												
12:15	327	64.2	28.4	42.6	15	NM	NM	NM	NM	NM	0	NM	0
12:30	1,077	112.5	26.9	183	16	NM	NM	NM	NM	NM	0	NM	0
12:45	1,277	143.2	12.7	250	NM	NM	NM	NM	NM	7.81	0	4.90	0
12:50	**Adjusted stinger pipe to allow air flow in through fitting.**												
13:00	1,281	144.0	12.6	161	18	NM	NM	NM	NM	NM	0	NM	0
13:15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	0	NM	0
13:30	1,192	144.1	12.5	120	18	NM	NM	NM	NM	7.81	0	4.92	0
13:40	**Changed vacuum to approx. 20 in of Hg.**												
13:45	1,392	144.0	13.1	103	19	NM	NM	NM	NM	NM	0	NM	0
14:00	1,127	152.8	10.8	96.1	20	NM	NM	NM	NM	NM	0	NM	0
14:15	1,291	155.1	9.9	83.8	20	NM	NM	NM	NM	7.85	0	4.93	0
14:30	1,264	157.8	9.4	79.6	20	NM	NM	NM	NM	NM	0	NM	0
14:45	1,271	157.6	9.3	72.3	19	NM	NM	NM	NM	NM	0	NM	0
15:00	1,288	158.2	9.0	73.1	19	NM	NM	NM	NM	7.93	0	4.95	0
15:05	**Changed vacuum to approx. 25 in of Hg.**												
15:15	1,422	184.8	7.3	90.3	23	NM	NM	NM	NM	NM	0	NM	0
15:30	1,320	206.2	4.5	84.6	23	NM	NM	NM	NM	8.02	0	4.97	0
16:00	**Moved stinger hose to MW-10.**												
16:45	**Shut down vacuum truck.**												
17:00	**Post-test DTW Measurements**					12.74	-	5.21	-	8.26	-	NM	-

NM denotes not measured.
Readings were taken from a 3" exhaust pipe.
Equipment used: Mini-Rae 2000 PID (ATC#1) - VOCs, TSI VelociCalc (ATC) - flow, Testo 400 (EnviroEquipment) - rh (%) and temp, Vacuum Gauge at back of vacuum truck

DPE Pilot Test
Safety-Kleen Archdale Facility
Archdale, North Carolina

Project Name:	Safety-Kleen Archdale		
Project No:	SKARCHDAL1		
Well ID:	**MW-4**	Field Operatives:	
Date:	January 21, 2016	Chris Young and Robert Broda	
Subcontractor	Clean Harbors	ATC Associates of NC, PC	

Measurements During DPE Pilot Test

	Stack Outlet				Vac Truck	Non-DPE Wells							
						OW-1		OW-2		OW-4		OW-5	
Time	Air Flow (ft/min)	Temperature (Fahrenheit)	R.H. (%)	TLV (ppm)	Vacuum (in of Hg)	DTW (feet)	Vacuum (in of H2O)	DTW (feet)	Vacuum (in of H2O)	DTW (feet)	Vacuum (in of H2O)	DTW (feet)	Vacuum (in of H2O)
11:30	**Pre-test DTW Measurements**					10.20	-	13.61	-	15.56	-	DRY	-
12:00	**Started vacuum truck. Stinger hose at 25.5 feet. Vacuum at approx. 15 in of Hg.**												
12:15	327	64.2	28.4	42.6	15	NM	NM	NM	NM	NM	0	NM	0
12:30	1,077	112.5	26.9	183	16	NM	NM	NM	NM	NM	0	NM	0
12:45	1,277	143.2	12.7	250	NM	NM	NM	NM	NM	15.55	0	DRY	0
12:50	**Adjusted stinger pipe to allow air flow in through fitting.**												
13:00	1,281	144.0	12.6	161	18	NM	NM	NM	NM	NM	0	NM	0.05
13:15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	0	NM	0
13:30	1,192	144.1	12.5	120	18	NM	NM	NM	NM	15.56	0	DRY	0
13:40	**Changed vacuum to approx. 20 in of Hg.**												
13:45	1,392	144.0	13.1	103	19	NM	NM	NM	NM	NM	0	NM	0
14:00	1,127	152.8	10.8	96.1	20	NM	NM	NM	NM	NM	0	NM	0
14:15	1,291	155.1	9.9	83.8	20	NM	NM	NM	NM	15.56	0	DRY	0
14:30	1,264	157.8	9.4	79.6	20	NM	NM	NM	NM	NM	0	NM	0.05
14:45	1,271	157.6	9.3	72.3	19	NM	NM	NM	NM	NM	0	NM	0.05
15:00	1,288	158.2	9.0	73.1	19	NM	NM	NM	NM	15.55	0	DRY	0
15:05	**Changed vacuum to approx. 25 in of Hg.**												
15:15	1,422	184.8	7.3	90.3	23	NM	NM	NM	NM	NM	0	NM	0.05
15:30	1,320	206.2	4.5	84.6	23	NM	NM	NM	NM	15.55	0.005	DRY	0.05
16:00	**Moved stinger hose to MW-10.**												
16:45	**Shut down vacuum truck.**												
17:00	**Post-test DTW Measurements**					10.13	-	13.57	-	15.56	-	DRY	-

NM denotes not measured.
Readings were taken from a 3" exhaust pipe.
Equipment used: Mini-Rae 2000 PID (ATC#1) - VOCs, TSI VelociCalc (ATC) - flow, Testo 400 (EnviroEquipment) - rh (%) and temp, Vacuum Gauge at back of vacuum truck

DPE Pilot Test
Safety-Kleen Archdale Facility
Archdale, North Carolina

Project Name:	Safety-Kleen Archdale		
Project No:	SKARCHDAL1		
Well ID:	**MW-4**	Field Operatives:	
Date:	January 21, 2016	Chris Young and Robert Broda	
Subcontractor	Clean Harbors	ATC Associates of NC, PC	

Measurements During DPE Pilot Test

	Stack Outlet				Vac Truck	Non-DPE Wells							
						OW-6		SVE-1					
Time	Air Flow (ft/min)	Temperature (Fahrenheit)	R.H. (%)	TLV (ppm)	Vacuum (in of Hg)	DTW (feet)	Vacuum (in of H2O)	DTW (feet)	Vacuum (in of H2O)				
11:30	**Pre-test DTW Measurements**					DRY	-	15.08	-				
12:00	**Started vacuum truck. Stinger hose at 25.5 feet. Vacuum at approx. 15 in of Hg.**												
12:15	327	64.2	28.4	42.6	15	NM	0	NM	0				
12:30	1,077	112.5	26.9	183	16	NM	0	NM	0				
12:45	1,277	143.2	12.7	250	NM	DRY	0	15.06	0				
12:50	**Adjusted stinger pipe to allow air flow in through fitting.**												
13:00	1,281	144.0	12.6	161	18	NM	0	NM	0				
13:15	NM	NM	NM	NM	NM	NM	0	NM	0				
13:30	1,192	144.1	12.5	120	18	DRY	0	15.03	0				
13:40	**Changed vacuum to approx. 20 in of Hg.**												
13:45	1,392	144.0	13.1	103	19	NM	0	NM	0				
14:00	1,127	152.8	10.8	96.1	20	NM	0	NM	0				
14:15	1,291	155.1	9.9	83.8	20	DRY	0	15.02	0				
14:30	1,264	157.8	9.4	79.6	20	NM	0	NM	0				
14:45	1,271	157.6	9.3	72.3	19	NM	0	NM	0				
15:00	1,288	158.2	9.0	73.1	19	DRY	0	15.00	0				
15:05	**Changed vacuum to approx. 25 in of Hg.**												
15:15	1,422	184.8	7.3	90.3	23	NM	0	NM	0				
15:30	1,320	206.2	4.5	84.6	23	DRY	0	15.01	0				
16:00	**Moved stinger hose to MW-10.**												
16:45	**Shut down vacuum truck.**												
17:00	**Post-test DTW Measurements**					DRY	-	15.02	-				

NM denotes not measured.
Readings were taken from a 3" exhaust pipe.
Equipment used: Mini-Rae 2000 PID (ATC#1) - VOCs, TSI VelociCalc (ATC) - flow, Testo 400 (EnviroEquipment) - rh (%) and temp, Vacuum Gauge at back of vacuum truck

DPE Pilot Test
Safety-Kleen Archdale Facility
Archdale, North Carolina

Project Name:	Safety-Kleen Archdale		
Project No:	SKARCHDAL1		
Well ID:	**MW-5**	Field Operatives:	
Date:	January 20, 2016	Chris Young and Brad Byers	
Subcontractor	Clean Harbors	ATC Associates of NC, PC	

Measurements During DPE Pilot Test

	Stack Outlet				Vac Truck	Non-DPE Wells							
						MW-2		OW-1		OW-2		MW-5	
Time	Air Flow (ft/min)	Temperature (Fahrenheit)	R.H. (%)	TLV (ppm)	Vacuum (in of Hg)	DTW (feet)	Vacuum (in of H2O)	DTW (feet)	Vacuum (in of H2O)	DTW (feet)	Vacuum (in of H2O)	DTW (feet)	Vacuum (in of H2O)
14:30	**Pre-test DTW Measurements**					33.77	-	10.12	-	12.42	-	2.78	-
14:45	**Started vacuum truck. Stinger hose at 14.5 feet. Vacuum at approx. 15 in of Hg.**												
15:00	388	51.4	30.9	89	14	NM	0	NM	0	NM	0	NM	NM
15:15	378	52.7	30.0	73.3	14	NM	0	NM	0	NM	0	NM	NM
15:30	289	55.4	28.8	77.5	14	33.77	0	10.12	0	13.26	0	NM	NM
15:45	**Changed vacuum to approx. 20 in of Hg.**												
15:45	336	117.7	14.2	236	22	NM	0	NM	0	NM	0	NM	NM
16:00	303	112.8	12.9	184	18	NM	0	NM	0	NM	0	NM	NM
16:15	805	130.8	13.1	347	20	33.75	0	10.12	0	13.41	0	NM	NM
16:15	**Changed vacuum to approx. 25 in of Hg.**												
16:30	1,086	142.9	12.3	331	22	NM	0	NM	0	NM	0	NM	NM
16:45	1,185	171.0	7.9	301	24	NM	0	NM	0	NM	0	NM	NM
17:00	979	181.8	6.4	340	24	33.74	0	10.12	0	13.41	0	NM	NM
17:20	**Shut down vacuum truck. MW-5 DTW is 11.82 feet and rising fast.**												
17:40	**Post-test DTW Measurements**					NM	-	NM	-	NM	-	5.25	-
18:00	**Post-test DTW Measurements**					NM	-	NM	-	NM	-	3.27	-
	495 gallons extracted from MW-5.												

NM denotes not measured.
Readings were taken from a 3" exhaust pipe.
Equipment used: Mini-Rae 2000 PID (ATC#1) - VOCs, TSI VelociCalc (ATC) - flow, Testo 400 (EnviroEquipment) - rh (%) and temp, Vacuum Gauge at back of vacuum truck

DPE Pilot Test
Safety-Kleen Archdale Facility
Archdale, North Carolina

Project Name:	Safety-Kleen Archdale		
Project No:	SKARCHDAL1		
Well ID:	**MW-10**	Field Operatives:	
Date:	January 21, 2016	Chris Young and Robert Broda	
Subcontractor	Clean Harbors	ATC Associates of NC, PC	

Measurements During DPE Pilot Test

	Stack Outlet				Vac Truck	Non-DPE Wells							
						MW-4		MW-5		MW-9		MW-10	
Time	Air Flow (ft/min)	Temperature (Fahrenheit)	R.H. (%)	TLV (ppm)	Vacuum (in of Hg)	DTW (feet)	Vacuum (in of H2O)	DTW (feet)	Vacuum (in of H2O)	DTW (feet)	Vacuum (in of H2O)	DTW (feet)	Vacuum (in of H2O)
11:30	**Pre-test DTW Measurements**					12.56	-	5.24	-	7.76	-	4.87	-
16:00	**Moved stinger hose from MW-4 to MW-10. Stinger hose at 6.5 feet. Vacuum at approx. 25 in of Hg.**												
16:15	1,639	171.1	6.7	66.4	20	13.15	2+	NM	NM	8.23	0	NM	NM
16:30	1,923	196.5	5.0	77.0	22	12.74	22.5	NM	NM	8.26	0	NM	NM
16:45	**Shut down vacuum truck.**												
17:00	**Post-test DTW Measurements**					12.74	-	5.21	-	8.26	-	NM	-

NM denotes not measured.
Readings were taken from a 3" exhaust pipe.
Equipment used: Mini-Rae 2000 PID (ATC#1) - VOCs, TSI VelociCalc (ATC) - flow, Testo 400 (EnviroEquipment) - rh (%) and temp, Vacuum Gauge at back of vacuum truck

DPE Pilot Test
Safety-Kleen Archdale Facility
Archdale, North Carolina

Project Name:	Safety-Kleen Archdale		
Project No:	SKARCHDAL1		
Well ID:	**MW-10**	Field Operatives:	
Date:	January 21, 2016	Chris Young and Robert Broda	
Subcontractor	Clean Harbors	ATC Associates of NC, PC	

Measurements During DPE Pilot Test

	Stack Outlet				Vac Truck	Non-DPE Wells							
						OW-1		OW-2		OW-4		OW-5	
Time	Air Flow (ft/min)	Temperature (Fahrenheit)	R.H. (%)	TLV (ppm)	Vacuum (in of Hg)	DTW (feet)	Vacuum (in of H2O)	DTW (feet)	Vacuum (in of H2O)	DTW (feet)	Vacuum (in of H2O)	DTW (feet)	Vacuum (in of H2O)
11:30	**Pre-test DTW Measurements**					10.20	-	13.61	-	15.56	-	DRY	-
16:00	**Moved stinger hose from MW-4 to MW-10. Stinger hose at 6.5 feet. Vacuum at approx. 25 in of Hg.**												
16:15	1,639	171.1	6.7	66.4	20	NM	NM	NM	NM	15.56	0	DRY	0.05
16:30	1,923	196.5	5.0	77.0	22	NM	NM	NM	NM	15.56	0	DRY	0.10
16:45	**Shut down vacuum truck.**												
17:00	**Post-test DTW Measurements**					10.13	-	13.57	-	15.56	-	DRY	-

NM denotes not measured.
Readings were taken from a 3" exhaust pipe.
Equipment used: Mini-Rae 2000 PID (ATC#1) - VOCs, TSI VelociCalc (ATC) - flow, Testo 400 (EnviroEquipment) - rh (%) and temp, Vacuum Gauge at back of vacuum truck

DPE Pilot Test
Safety-Kleen Archdale Facility
Archdale, North Carolina

Project Name:	Safety-Kleen Archdale		
Project No:	SKARCHDAL1		
Well ID:	**MW-10**	Field Operatives:	
Date:	January 21, 2016	Chris Young and Robert Broda	
Subcontractor	Clean Harbors	ATC Associates of NC, PC	

Measurements During DPE Pilot Test

	Stack Outlet				Vac Truck	Non-DPE Wells							
						OW-6		SVE-1					
Time	Air Flow (ft/min)	Temperature (Fahrenheit)	R.H. (%)	TLV (ppm)	Vacuum (in of Hg)	DTW (feet)	Vacuum (in of H2O)	DTW (feet)	Vacuum (in of H2O)				
11:30	**Pre-test DTW Measurements**					DRY	-	15.08	-				
16:00	**Moved stinger hose from MW-4 to MW-10. Stinger hose at 6.5 feet. Vacuum at approx. 25 in of Hg.**												
16:15	1,639	171.1	6.7	66.4	20	DRY	0.01	15.02	0				
16:30	1,923	196.5	5.0	77.0	22	DRY	0	15.02	0				
16:45	**Shut down vacuum truck.**												
17:00	**Post-test DTW Measurements**					DRY	-	15.02	-				

NM denotes not measured.
Readings were taken from a 3" exhaust pipe.
Equipment used: Mini-Rae 2000 PID (ATC#1) - VOCs, TSI VelociCalc (ATC) - flow, Testo 400 (EnviroEquipment) - rh (%) and temp, Vacuum Gauge at back of vacuum truck

Mass Removal Calculations
Safety-Kleen Archdale Facility
Archdale, North Carolina

Project Name:	Safety-Kleen Archdale
Project No:	SKARCHDAL1
Well ID:	MW-4
Date:	1/21/2016
Subcontractor	Clean Harbors

Time	Delta Time (minute)	VOC Concentration (ppm)	Velocity (feet/minute)	Temp (˚F)	Relative Humidity (%)	Stack Diameter (in.)	Air Flow (cfm)	Specific Humidity (lbW/lbDA)	Water Vapor (vol %)	Dry Basis Air Flow (dscfm)	Dry VOC Concentration (ppm)	Response Factor	Corrected VOC Concentration (ppm)	Mass Concentration (mg/m^3)	Mass Concentration (lb/ft^3)	Mass Removed (lb)
12:15	15	42.6	327	64.2	28.4	3.0	16	0.036	0.054	15	45	1	45	239	0.000015	0.00
12:30	15	183.0	1,077	112.5	26.9	3.0	53	0.143	0.186	40	225	1	225	1196	0.000075	0.04
12:45	15	250.0	1,277	143.2	12.7	3.0	63	0.171	0.215	43	319	1	319	1695	0.000106	0.07
13:00	15	161.0	1,281	144	12.6	3.0	63	0.171	0.215	43	205	1	205	1091	0.000068	0.04
13:30	30	120.0	1,192	144.1	12.5	3.0	58	0.171	0.215	40	153	1	153	813	0.000051	0.06
13:45	15	103.0	1,392	144	13.1	3.0	68	0.179	0.222	46	132	1	132	704	0.000044	0.03
14:00	15	96.1	1,127	153	10.8	3.0	55	0.171	0.215	37	122	1	122	651	0.000041	0.02
14:15	15	83.8	1,291	155.1	9.9	3.0	63	0.171	0.215	43	107	1	107	568	0.000035	0.02
14:30	15	79.6	1,264	157.8	9.4	3.0	62	0.200	0.243	40	105	1	105	559	0.000035	0.02
14:45	15	72.3	1,271	157.6	9.3	3.0	62	0.200	0.243	40	95	1	95	508	0.000032	0.02
15:00	15	73.1	1,288	158.2	9.0	3.0	63	0.200	0.243	41	97	1	97	513	0.000032	0.02
15:15	15	90.3	1,422	184.8	7.3	3.0	70	0.236	0.274	41	124	1	124	662	0.000041	0.03
15:30	15	84.6	1,320	206.2	4.5	3.0	65	0.229	0.268	38	116	1	116	615	0.000038	0.02
														Total Emissions in Pounds		0.40
														Total Emissions in Gallons		0.06

Notes:
VOC = Volatile organic compounds measured using a photoionization detector (PID
ppm = parts per million
cfm = cubic feet per minute
Air Flow= π*(Stack Diameter (in.)/12/2)^2*Velocity
Specific Humidity = Data from psychrometric chart at measured temperature and relative humidity in pounds of water per pound of dry air (lbW/lbDA
Water Vapor = % water vapor on a volume basis = (Specific Humidity / 18 lb-mole H2O) / [(1 / 28.84 lb-mole dry air) + (Specific Humidity / 18 lb-mole H2O
Dry Basis Air Flow = Flow volume on a dry basis at a standard temperature of 6˚F = (1-Water Vapor) (Air Flow) [528˚R / (Temperature+460)]
dscfm = dry standard cubic feet per minute
Dry VOC Concentration = [VOC Concentration / (1-Water Vapor)]
Response Factor = Response Factor of PID; 1 if response factor is unknown
Corrected VOC Concentration = Dry VOC Concentration x Response Factor
Mass Concentration (mg/m^3) = Mass concentration VOC as gasoline dry basis at standard temperature = (Corrected VOC Concentration) (128 mg/mg-mole / 24.07 m3/mg-mole
Mass Concentration (lb/ft^3) = [Mass Concentration (mg/m3)] [(6.243 * 10^{-8})(lb/ft3)/(mg/m3)]
mg/m^3 = milligrams per cubic meter
lb/ft^3 = pounds per cubic foot
Mass Removed (lb) = [Mass Concentration (lb/ft3)] [Dry Basis Air Flow (dscfm)] [Time Interval (min)]

Mass Removal Calculations
Safety-Kleen Archdale Facility
Archdale, North Carolina

Project Name:	Safety-Kleen Archdale
Project No:	SKARCHDAL1
Well ID:	MW-5
Date:	1/20/2016
Subcontractor	Clean Harbors

Time	Delta Time (minute)	VOC Concentration (ppm)	Velocity (feet/minute)	Temp (˚F)	Relative Humidity (%)	Stack Diameter (in.)	Air Flow (cfm)	Specific Humidity (lbW/lbDA)	Water Vapor (vol %)	Dry Basis Air Flow (dscfm)	Dry VOC Concentration (ppm)	Response Factor	Corrected VOC Concentration (ppm)	Mass Concentration (mg/m^3)	Mass Concentration (lb/ft^3)	Mass Removed (lb)
15:00	15	89.0	388	51.4	30.9	3.0	19	0.029	0.044	19	93	1	93	495	0.000031	0.01
15:15	15	73.3	378	52.7	30.0	3.0	19	0.026	0.040	18	76	1	76	406	0.000025	0.01
15:30	15	77.5	289	55.4	28.8	3.0	14	0.029	0.044	14	81	1	81	431	0.000027	0.01
15:45	15	236.0	336	117.7	14.2	3.0	16	0.079	0.112	13	266	1	266	1413	0.000088	0.02
16:00	15	184.0	303	112.8	12.9	3.0	15	0.071	0.103	12	205	1	205	1090	0.000068	0.01
16:15	15	347.0	805	131	13.1	3.0	39	0.129	0.171	29	418	1	418	2225	0.000139	0.06
16:30	15	331.0	1,086	142.9	12.3	3.0	53	0.150	0.194	38	411	1	411	2183	0.000136	0.08
16:45	15	301.0	1,185	171	7.9	3.0	58	0.200	0.243	37	397	1	397	2114	0.000132	0.07
17:00	15	340.0	979	181.8	6.4	3.0	48	0.200	0.243	30	449	1	449	2387	0.000149	0.07
														Total Emissions in Pounds		0.33
														Total Emissions in Gallons		0.05

Notes:
VOC = Volatile organic compounds measured using a photoionization detector (PID
ppm = parts per million
cfm = cubic feet per minute
Air Flow= π*(Stack Diameter (in.)/12/2)^2*Velocity
Specific Humidity = Data from psychrometric chart at measured temperature and relative humidity in pounds of water per pound of dry air (lbW/lbDA
Water Vapor = % water vapor on a volume basis = (Specific Humidity / 18 lb-mole H2O) / [(1 / 28.84 lb-mole dry air) + (Specific Humidity / 18 lb-mole H2O
Dry Basis Air Flow = Flow volume on a dry basis at a standard temperature of 6˚F = (1-Water Vapor) (Air Flow) [528˚R / (Temperature+460)]
dscfm = dry standard cubic feet per minute
Dry VOC Concentration = [VOC Concentration / (1-Water Vapor)]
Response Factor = Response Factor of PID; 1 if response factor is unknown
Corrected VOC Concentration = Dry VOC Concentration x Response Factor
Mass Concentration (mg/m^3) = Mass concentration VOC as gasoline dry basis at standard temperature = (Corrected VOC Concentration) (128 mg/mg-mole / 24.07 m3/mg-mole
Mass Concentration (lb/ft^3) = [Mass Concentration (mg/m3)] [(6.243 * 10^{-8})(lb/ft3)/(mg/m3)]
mg/m^3 = milligrams per cubic meter
lb/ft^3 = pounds per cubic foot
Mass Removed (lb) = [Mass Concentration (lb/ft3)] [Dry Basis Air Flow (dscfm)] [Time Interval (min)]

Mass Removal Calculations
Safety-Kleen Archdale Facility
Archdale, North Carolina

Project Name:	Safety-Kleen Archdale
Project No:	SKARCHDAL1
Well ID:	MW-10
Date:	1/21/2006
Subcontractor	Clean Harbors

Time	Delta Time (minute)	VOC Concentration (ppm)	Velocity (feet/minute)	Temp (˚F)	Relative Humidity (%)	Stack Diameter (in.)	Air Flow (cfm)	Specific Humidity (lbW/lbDA)	Water Vapor (vol %)	Dry Basis Air Flow (dscfm)	Dry VOC Concentration (ppm)	Response Factor	Corrected VOC Concentration (ppm)	Mass Concentration (mg/m^3)	Mass Concentration (lb/ft^3)	Mass Removed (lb)
16:15	15	66.4	1,639	171.1	6.7	3.0	80	0.171	0.215	53	85	1	85	450	0.000028	0.02
16:30	15	77.0	1,923	196.5	5.0	3.0	94	0.229	0.268	56	105	1	105	559	0.000035	0.03
														Total Emissions in Pounds		0.03
														Total Emissions in Gallons		0.00

Notes:
VOC = Volatile organic compounds measured using a photoionization detector (PID
ppm = parts per million
cfm = cubic feet per minute
Air Flow= π*(Stack Diameter (in.)/12/2)^2*Velocity
Specific Humidity = Data from psychrometric chart at measured temperature and relative humidity in pounds of water per pound of dry air (lbW/lbDA
Water Vapor = % water vapor on a volume basis = (Specific Humidity / 18 lb-mole H2O) / [(1 / 28.84 lb-mole dry air) + (Specific Humidity / 18 lb-mole H2O
Dry Basis Air Flow = Flow volume on a dry basis at a standard temperature of 68˚F = (1-Water Vapor) (Air Flow) [528˚R / (Temperature+460)]
dscfm = dry standard cubic feet per minute
Dry VOC Concentration = [VOC Concentration / (1-Water Vapor)]
Response Factor = Response Factor of PID; 1 if response factor is unknown
Corrected VOC Concentration = Dry VOC Concentration x Response Factor
Mass Concentration (mg/m^3) = Mass concentration VOC as gasoline dry basis at standard temperature = (Corrected VOC Concentration) (128 mg/mg-mole / 24.07 m3/mg-mole
Mass Concentration (lb/ft^3) = [Mass Concentration (mg/m3)] [(6.243 * 10^{-8})(lb/ft3)/(mg/m3)]
mg/m^3 = milligrams per cubic meter
lb/ft^3 = pounds per cubic foot
Mass Removed (lb) = [Mass Concentration (lb/ft3)] [Dry Basis Air Flow (dscfm)] [Time Interval (min)]

APPENDIX D

SOIL VAPOR EXTRACTION PILOT TEST DATA

SVE PILOT TEST

Site Name:	Safety-Kleen Archdale	**SVE Well ID:**	SVE-1
Test Date:	01/19/16	**SVE Well Depth (feet):**	21
ATC Personnel:	Chris Young, Brad Byers	**SVE Well Screen Interval:**	5-21
Weather Conditions:	20-30 deg. F, cold, clear and sunny		
Vacuum Blower Model:	Gast R7100R-50 Regenerative Blower		
Vacuum Blower Size:	10-hp		

PRE-TEST READINGS	**SVE-1**	**OW-3**	**OW-4**	**OW-5**	**OW-6**					
Distance from SVE Well (feet)	**-----**	**25**	**29**	**85**	**51**					
Depth to Water (feet)	**15.28**	**14.15**	**15.69**	**DRY**	**DRY**					

POST-TEST READINGS	**SVE-1**	**OW-3**	**OW-4**	**OW-5**	**OW-6**					
Depth to Water (feet)	**11.22**	**14.18**	**15.63**	**DRY**	**DRY**					

STAGE #1	
Start Time:	1:30 PM
Vacuum to Maintain at Blower ("H_2O)	40
Note: 1" Hg = 13.60" H_2O	

1:35 PM COLLECTED AIR SAMPLE [SVE-1 (40" H2O)] FOR 2 MIN USING 400 mL SUMMA CANISTER (H&P #352)

	Data Collection Times							
SVE Wellhead and Moisture Separator Readings	**2:00**	**2:30**						
Vacuum Gauge Reading at SVE Wellhead ("H_2O)	**44**	**44**						
Vacuum Gauge Reading prior to Moisture Separator ("H_2O)	**40**	**40**						
Vacuum Gauge Reading on Dilution Air Piping ("H_2O)	**36**	**36**						
Magnehelic Gauge Reading on Dilution Air Piping ("H_2O)	**4.0**	**3.8**						
Dilution Flow Rate from Pitot Tube Flow Conversion Chart (SCFM)	**104**	**100**						
Vacuum Blower Readings	**2:00**	**2:30**						
Vacuum Gauge Reading between M. Separator and Blower ("H_2O)	**38**	**39**						
Temperature Gauge Reading on Blower Discharge Piping (^oF)	**70**	**70**						
PID Reading for Blower Discharge (ppm)	**NM**	**6.4**						
Pressure Gauge Reading on Blower Discharge Piping ("H_20)	**0**	**0**						
Magnehelic Gauge Reading on Blower Discharge Piping ("H_2O)	**0.1**	**0.8**						
Discharge Flow Rate from Pitot Tube Flow Conversion Chart (SCFM)	**40**	**100**						
Actual Flow Rate from SVE Well (SCFM) *	**-64**	**0**						
* Actual Flow Rate from SVE Well = (Flow Rate on Blower Discharge Piping) - (Flow Rate on Dilution Air Piping)								
Vacuum Gauge Readings at Monitoring Points	**2:00**	**2:30**						
OW-3 ("H_2O)	**1.0**	**0.90**						
OW-4 ("H_2O)	**0.55**	**0.50**						
OW-5 ("H_2O)	**0.03**	**0.02**						
OW-6 ("H_2O)	**>0.25**	**0.28**						

STAGE #2	
Start Time:	2:45 PM
Vacuum to Maintain at Blower ("H_2O)	60
Note: 1" Hg = 13.60" H_2O	

	Data Collection Times							
SVE Wellhead and Moisture Separator Readings	**3:00**	**3:30**						
Vacuum Gauge Reading at SVE Wellhead ("H_2O)	**64**	**64**						
Vacuum Gauge Reading prior to Moisture Separator ("H_2O)	**60**	**59**						
Vacuum Gauge Reading on Dilution Air Piping ("H_2O)	**58**	**58**						
Magnehelic Gauge Reading on Dilution Air Piping ("H_2O)	**1.0**	**1.0**						
Dilution Flow Rate from Pitot Tube Flow Conversion Chart (SCFM)	**50**	**50**						
Vacuum Blower Readings	**3:00**	**3:30**						
Vacuum Gauge Reading between M. Separator and Blower ("H_2O)	**56**	**56**						
Temperature Gauge Reading on Blower Discharge Piping (^oF)	**97**	**98**						
PID Reading for Blower Discharge (ppm)	**5.3**	**1.9**						
Pressure Gauge Reading on Blower Discharge Piping ("H_20)	**0**	**0**						
Magnehelic Gauge Reading on Blower Discharge Piping ("H_2O)	**0.2**	**0.4**						
Discharge Flow Rate from Pitot Tube Flow Conversion Chart (SCFM)	**50**	**70**						
Actual Flow Rate from SVE Well (SCFM) *	**0**	**20**						
* Actual Flow Rate from SVE Well = (Flow Rate on Blower Discharge Piping) - (Flow Rate on Dilution Air Piping)								
Vacuum Gauge Readings at Monitoring Points	**3:00**	**3:30**						
OW-3 ("H_2O)	**1.1**	**1.05**						
OW-4 ("H_2O)	**0.65**	**0.70**						
OW-5 ("H_2O)	**0.04**	**0.06**						
OW-6 ("H_2O)	**0.38**	**0.40**						

STAGE #3	
Start Time:	3:40 PM
Vacuum to Maintain at Blower ("H_2O)	80
Note: 1" Hg = 13.60" H_2O	

	Data Collection Times							
SVE Wellhead and Moisture Separator Readings	**4:00**	**4:30**						
Vacuum Gauge Reading at SVE Wellhead ("H_2O)	**92**	**93**						
Vacuum Gauge Reading prior to Moisture Separator ("H_2O)	**82**	**82**						
Vacuum Gauge Reading on Dilution Air Piping ("H_2O)	**82**	**82**						
Magnehelic Gauge Reading on Dilution Air Piping ("H_2O)	**4.2**	**4.4**						
Dilution Flow Rate from Pitot Tube Flow Conversion Chart (SCFM)	**100**	**104**						
Vacuum Blower Readings	**4:00**	**4:30**						
Vacuum Gauge Reading between M. Separator and Blower ("H_2O)	**84**	**84**						
Temperature Gauge Reading on Blower Discharge Piping (^oF)	**136**	**134**						
PID Reading for Blower Discharge (ppm)	**4.2**	**3.1**						
Pressure Gauge Reading on Blower Discharge Piping ("H_20)	**0**	**0**						
Magnehelic Gauge Reading on Blower Discharge Piping ("H_2O)	**1.0**	**0.8**						
Discharge Flow Rate from Pitot Tube Flow Conversion Chart (SCFM)	**120**	**110**						
Actual Flow Rate from SVE Well (SCFM) *	**20**	**6**						
* Actual Flow Rate from SVE Well = (Flow Rate on Blower Discharge Piping) - (Flow Rate on Dilution Air Piping)								
Vacuum Gauge Readings at Monitoring Points	**4:00**	**4:30**						
OW-3 ("H_2O)	**1.80**	**1.60**						
OW-4 ("H_2O)	**1.15**	**1.00**						
OW-5 ("H_2O)	**0.06**	**0.04**						
OW-6 ("H_2O)	**0.68**	**0.60**						

STAGE #4	
Start Time:	4:35 PM
Vacuum to Maintain at Blower ("H_2O)	90-100
Note: 1" Hg = 13.60" H_2O	

5:20 PM COLLECTED AIR SAMPLE [SVE-1 (100" H2O)] FOR 2 MIN USING 400 mL SUMMA CANISTER (H&P #059)

	Data Collection Times							
SVE Wellhead and Moisture Separator Readings	**5:00**	**5:30**						
Vacuum Gauge Reading at SVE Wellhead ("H_2O)	**>100**	**>100**						
Vacuum Gauge Reading prior to Moisture Separator ("H_2O)	**102**	**104**						
Vacuum Gauge Reading on Dilution Air Piping ("H_2O)	**98**	**98**						
Magnehelic Gauge Reading on Dilution Air Piping ("H_2O)	**3.2**	**3.2**						
Dilution Flow Rate from Pitot Tube Flow Conversion Chart (SCFM)	**84**	**84**						
Vacuum Blower Readings	**5:00**	**5:30**						
Vacuum Gauge Reading between M. Separator and Blower ("H_2O)	**96**	**96**						
Temperature Gauge Reading on Blower Discharge Piping (^oF)	**160**	**162**						
PID Reading for Blower Discharge (ppm)	**4.3**	**12.6**						
Pressure Gauge Reading on Blower Discharge Piping ("H_20)	**0**	**0**						
Magnehelic Gauge Reading on Blower Discharge Piping ("H_2O)	**0.6**	**0.6**						
Discharge Flow Rate from Pitot Tube Flow Conversion Chart (SCFM)	**90**	**90**						
Actual Flow Rate from SVE Well (SCFM) *	**6**	**6**						
* Actual Flow Rate from SVE Well = (Flow Rate on Blower Discharge Piping) - (Flow Rate on Dilution Air Piping)								
Vacuum Gauge Readings at Monitoring Points	**5:00**	**5:30**						
OW-3 ("H_2O)	**1.80**	**1.60**						
OW-4 ("H_2O)	**1.15**	**1.10**						
OW-5 ("H_2O)	**0.06**	**0.055**						
OW-6 ("H_2O)	**0.70**	**0.68**						

SVE PILOT TEST

Site Name:	Safety-Kleen Archdale	**SVE Well ID:**	OW-2
Test Date:	01/20/16	**SVE Well Depth (feet):**	24.5
ATC Personnel:	Chris Young, Brad Byers	**SVE Well Screen Interval:**	5-25
Weather Conditions:	25-35 deg. F, cold, cloudy		
Vacuum Blower Model:	Gast R7100R-50 Regenerative Blower		
Vacuum Blower Size:	10-hp		

PRE-TEST READINGS	**OW-2**	**OW-1**	**OW-4**	**MW-5**						
Distance from SVE Well (feet)	**-----**	**35**	**67**	**75**						
Depth to Water (feet)	**13.67**	**10.25**	**16.22**	**2.74**						

POST-TEST READINGS	**OW-2**	**OW-1**	**OW-4**	**MW-5**						
Depth to Water (feet)	**9.02**	**10.12**	**15.82**	**2.78**						

STAGE #1	
Start Time:	10:15 AM
Vacuum to Maintain at Blower ("H_2O)	40
Note: 1" Hg = 13.60" H_2O	

10:30 AM COLLECTED AIR SAMPLE [SVE-2 (40" H2O)] FOR 2 MIN USING 400 mL SUMMA CANISTER (H&P #54)

	Data Collection Times							
SVE Wellhead and Moisture Separator Readings	**10:45**							
Vacuum Gauge Reading at SVE Wellhead ("H_2O)	**28**							
Vacuum Gauge Reading prior to Moisture Separator ("H_2O)	**40**							
Vacuum Gauge Reading on Dilution Air Piping ("H_2O)	**34**							
Magnehelic Gauge Reading on Dilution Air Piping ("H_2O)	**7.2**							
Dilution Flow Rate from Pitot Tube Flow Conversion Chart (SCFM)	**140**							
Vacuum Blower Readings	**10:45**							
Vacuum Gauge Reading between M. Separator and Blower ("H_2O)	**38**							
Temperature Gauge Reading on Blower Discharge Piping (^oF)	**72**							
PID Reading for Blower Discharge (ppm)	**4.5**							
Pressure Gauge Reading on Blower Discharge Piping ("H_20)	**0**							
Magnehelic Gauge Reading on Blower Discharge Piping ("H_2O)	**1.5**							
Discharge Flow Rate from Pitot Tube Flow Conversion Chart (SCFM)	**140**							
Actual Flow Rate from SVE Well (SCFM) *	**0**							
* Actual Flow Rate from SVE Well = (Flow Rate on Blower Discharge Piping) - (Flow Rate on Dilution Air Piping)								
Vacuum Gauge Readings at Monitoring Points	**10:45**							
OW-1 ("H_2O)	**0.50**							
OW-4 ("H_2O)	**NM**							
MW-5 ("H_2O)	**0.00**							

STAGE #2	
Start Time:	10:50 AM
Vacuum to Maintain at Blower ("H_2O)	60
Note: 1" Hg = 13.60" H_2O	

	Data Collection Times							
SVE Wellhead and Moisture Separator Readings	**11:15**	**11:45**						
Vacuum Gauge Reading at SVE Wellhead ("H_2O)	**58**	**62**						
Vacuum Gauge Reading prior to Moisture Separator ("H_2O)	**60**	**60**						
Vacuum Gauge Reading on Dilution Air Piping ("H_2O)	**54**	**54**						
Magnehelic Gauge Reading on Dilution Air Piping ("H_2O)	**>10**	**8.0**						
Dilution Flow Rate from Pitot Tube Flow Conversion Chart (SCFM)	**160**	**144**						
Vacuum Blower Readings	**11:15**	**11:45**						
Vacuum Gauge Reading between M. Separator and Blower ("H_2O)	**58**	**60**						
Temperature Gauge Reading on Blower Discharge Piping (^oF)	**96**	**100**						
PID Reading for Blower Discharge (ppm)	**6.5**	**7.5**						
Pressure Gauge Reading on Blower Discharge Piping ("H_20)	**0**	**0**						
Magnehelic Gauge Reading on Blower Discharge Piping ("H_2O)	**2.0**	**1.6**						
Discharge Flow Rate from Pitot Tube Flow Conversion Chart (SCFM)	**165**	**150**						
Actual Flow Rate from SVE Well (SCFM) *	**5**	**6**						
* Actual Flow Rate from SVE Well = (Flow Rate on Blower Discharge Piping) - (Flow Rate on Dilution Air Piping)								
Vacuum Gauge Readings at Monitoring Points	**11:15**	**11:45**						
OW-1 ("H_2O)	**1.20**	**1.15**						
OW-4 ("H_2O)	**0.00**	**0.055**						
MW-5 ("H_2O)	**0.00**	**0.00**						

STAGE #3	
Start Time:	11:50 AM
Vacuum to Maintain at Blower ("H_2O)	80
Note: 1" Hg = 13.60" H_2O	

	Data Collection Times							
SVE Wellhead and Moisture Separator Readings	**12:15**	**12:30**						
Vacuum Gauge Reading at SVE Wellhead ("H_2O)	**80**	**80**						
Vacuum Gauge Reading prior to Moisture Separator ("H_2O)	**80**	**80**						
Vacuum Gauge Reading on Dilution Air Piping ("H_2O)	**72**	**72**						
Magnehelic Gauge Reading on Dilution Air Piping ("H_2O)	**4.6**	**4.6**						
Dilution Flow Rate from Pitot Tube Flow Conversion Chart (SCFM)	**104**	**104**						
Vacuum Blower Readings	**12:15**	**12:30**						
Vacuum Gauge Reading between M. Separator and Blower ("H_2O)	**74**	**74**						
Temperature Gauge Reading on Blower Discharge Piping (^oF)	**130**	**132**						
PID Reading for Blower Discharge (ppm)	**13.2**	**12.8**						
Pressure Gauge Reading on Blower Discharge Piping ("H_20)	**0**	**0**						
Magnehelic Gauge Reading on Blower Discharge Piping ("H_2O)	**1**	**0.9**						
Discharge Flow Rate from Pitot Tube Flow Conversion Chart (SCFM)	**115**	**110**						
Actual Flow Rate from SVE Well (SCFM) *	**11**	**6**						
* Actual Flow Rate from SVE Well = (Flow Rate on Blower Discharge Piping) - (Flow Rate on Dilution Air Piping)								
Vacuum Gauge Readings at Monitoring Points	**12:15**	**12:30**						
OW-1 ("H_2O)	**1.35**	**1.35**						
OW-4 ("H_2O)	**0.055**	**0.08**						
MW-5 ("H_2O)	**0.00**	**0.00**						

STAGE #4	
Start Time:	12:40 PM
Vacuum to Maintain at Blower ("H_2O)	90-100
Note: 1" Hg = 13.60" H_2O	

12:58 PM COLLECTED AIR SAMPLE [SVE-2 (100" H2O)] FOR 2 MIN USING 400 mL SUMMA CANISTER (H&P #52)

	Data Collection Times							
SVE Wellhead and Moisture Separator Readings	**1:00**							
Vacuum Gauge Reading at SVE Wellhead ("H_2O)	**100**							
Vacuum Gauge Reading prior to Moisture Separator ("H_2O)	**98**							
Vacuum Gauge Reading on Dilution Air Piping ("H_2O)	**94**							
Magnehelic Gauge Reading on Dilution Air Piping ("H_2O)	**3.4**							
Dilution Flow Rate from Pitot Tube Flow Conversion Chart (SCFM)	**88**							
Vacuum Blower Readings	**1:00**							
Vacuum Gauge Reading between M. Separator and Blower ("H_2O)	**94**							
Temperature Gauge Reading on Blower Discharge Piping (^oF)	**172**							
PID Reading for Blower Discharge (ppm)	**21.2**							
Pressure Gauge Reading on Blower Discharge Piping ("H_20)	**0**							
Magnehelic Gauge Reading on Blower Discharge Piping ("H_2O)	**0.8**							
Discharge Flow Rate from Pitot Tube Flow Conversion Chart (SCFM)	**105**							
Actual Flow Rate from SVE Well (SCFM) *	**17**							
* Actual Flow Rate from SVE Well = (Flow Rate on Blower Discharge Piping) - (Flow Rate on Dilution Air Piping)								
Vacuum Gauge Readings at Monitoring Points	**1:00**							
OW-1 ("H_2O)	**1.70**							
OW-4 ("H_2O)	**0.14**							
MW-5 ("H_2O)	**0.00**							

APPENDIX E

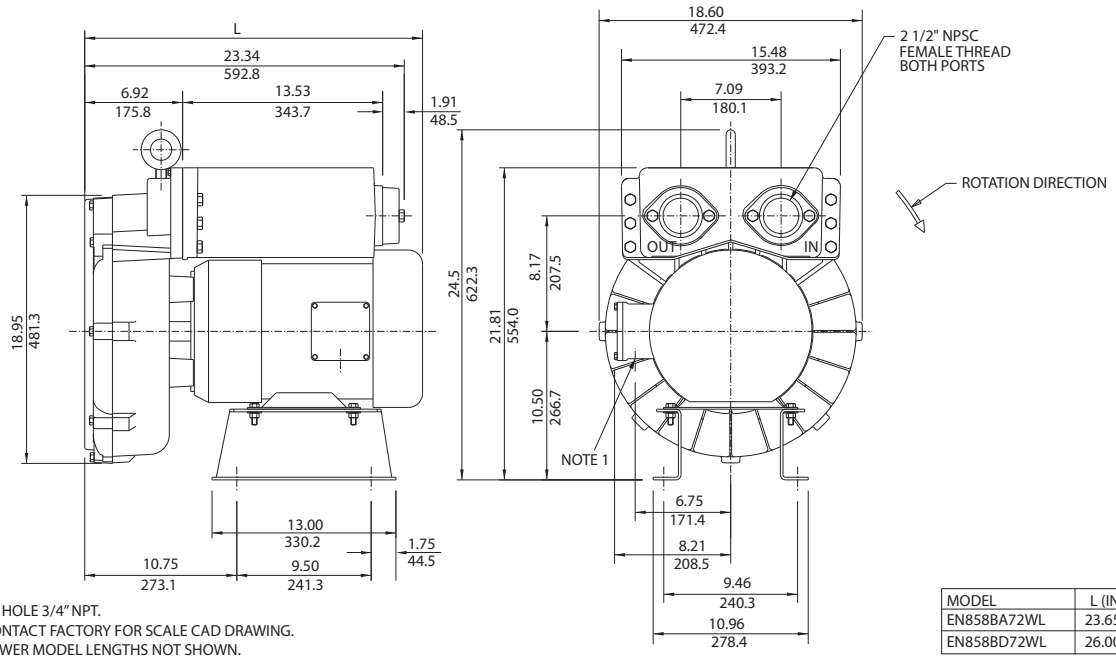
PRODUCT LITERATURE FOR THE AMETEK ROTRON BLOWER

Environmental / Chemical Processing Blowers

ROTRON®

EN 858 & CP 858

7.5 / 10.0 HP Sealed Regenerative w/Explosion-Proof Motor



IN
MM

NOTES
1 TERMINAL BOX CONNECTOR HOLE 3/4" NPT.
2 DRAWING NOT TO SCALE, CONTACT FACTORY FOR SCALE CAD DRAWING.
3 CONTACT FACTORY FOR BLOWER MODEL LENGTHS NOT SHOWN.

MODEL	L (IN/MM)
EN858BA72WL	23.65/600.7
EN858BD72WL	26.00/660.4

		Part/ Model Number			
Specification	Units	EN858BD72WL 038744	EN858BD86WL 038745	EN858BA72WL 080070	CP858FZ72WLR 038980
Motor Enclosure - Shaft Mtl.	-	Explosion-proof-CS	Explosion-proof-CS	Explosion-proof-CS	Chem XP-SS
Horsepower	-	10.0	10.0	7.5	10.0
Phase - Frequency	-	Three-60 hz	Three-60 hz	Three-60 hz	Three-60 hz
Voltage	AC	230/460	575	230/460	230/460
Motor Nameplate Amps	Amps (A)	24/12	9.6	18.6/9.3	24/12
Max. Blower Amps	Amps (A)	30/15	11.6	26/13	30/15
Inrush Amps	Amps (A)	234/117	93	126/63	234/117
Service Factor	-	1.0	1.0	1.0	1.0
Starter Size	-	2/1	1	1/1	2/1
Thermal Protection	-	Class B - Pilot Duty	Class B - Pilot Duty	Class B - Pilot Duty	Class B - Pilot Duty
XP Motor Class - Group	-	I-D, II-F&G	I-D, II-F&G	I-D, II-F&G	I-D, II-F&G
Shipping Weight	Lbs	338	338	326	338
	Kg	153.3	153.3	147.9	153.3

Voltage - ROTRON motors are designed to handle a broad range of world voltages and power supply variations. Our dual voltage 3 phase motors are factory tested and certified to operate on both: **208-230/415-460 VAC-3 ph-60 Hz** and **190-208/380-415 VAC-3 ph-50 Hz**. Our dual voltage 1 phase motors are factory tested and certified to operate on both: **104-115/208-230 VAC-1 ph-60 Hz** and **100-110/200-220 VAC-1 ph-50 Hz**. All voltages above can handle a ±10% voltage fluctuation. Special wound motors can be ordered for voltages outside our certified range.

Operating Temperatures - Maximum operating temperature: Motor winding temperature (winding rise plus ambient) should not exceed 140°C for Class F rated motors or 120°C for Class B rated motors. Blower outlet air temperature should not exceed 140°C (air temperature rise plus inlet temperature). Performance curve maximum pressure and suction points are based on a 40°C inlet and ambient temperature. Consult factory for inlet or ambient temperatures above 40°C.

Maximum Blower Amps - Corresponds to the performance point at which the motor or blower temperature rise with a 40°C inlet and/or ambient temperature reaches the maximum operating temperature.

XP Motor Class - Group - See Explosive Atmosphere Classification Chart in Section I

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AMETEK TECHNICAL & INDUSTRIAL PRODUCTS
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www.ametektip.com

AMETEK®
TECHNICAL & INDUSTRIAL PRODUCTS

Environmental / Chemical Processing Blowers

EN 858 & CP 858

ROTRON®

7.5 / 10.0 HP Sealed Regenerative w/Explosion-Proof Motor

FEATURES

- Manufactured in the USA - ISO 9001 and NAFTA compliant
- Maximum flow: 380 SCFM
- Maximum pressure: 120 IWG
- Maximum vacuum: 95 IWG
- Standard motor: 10 HP, explosion-proof
- Cast aluminum blower housing, impeller , cover & manifold; cast iron flanges (threaded); teflon® lip seal
- UL & CSA approved motor with permanently sealed ball bearings for explosive gas atmospheres Class I Group D minimum
- Sealed blower assembly
- Quiet operation within OSHA standards

MOTOR OPTIONS

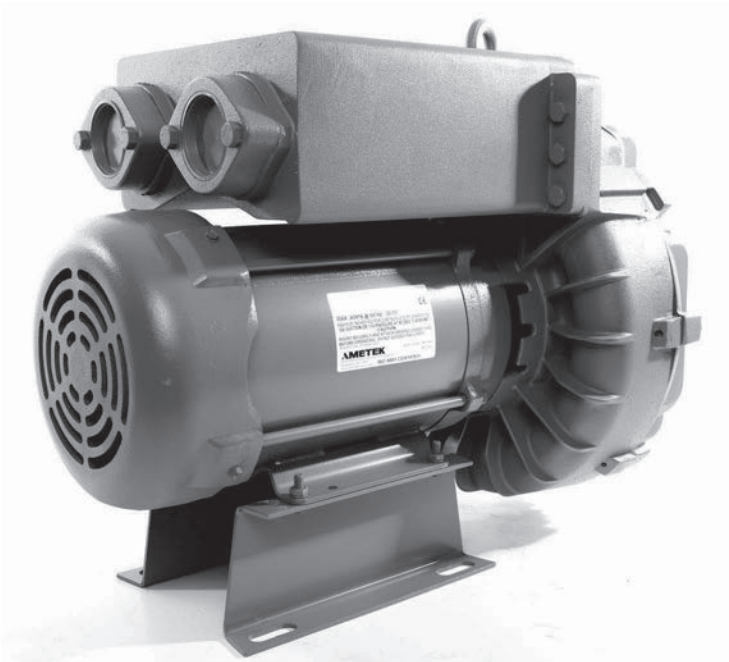
- International voltage & frequency (Hz)
- Chemical duty, high efficiency, inverter duty or industry-specific designs
- Various horsepowers for application-specific needs

BLOWER OPTIONS

- Corrosion resistant surface treatments & sealing options
- Remote drive (motorless) models
- Slip-on or face flanges for application-specific needs

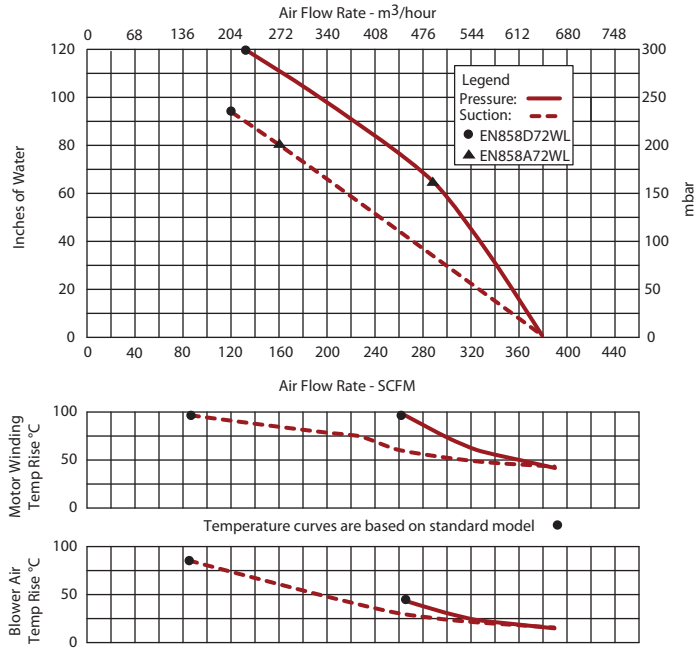
ACCESSORIES

- Flowmeters reading in SCFM
- Filters & moisture separators
- Pressure gauges, vacuum gauges, & relief valves
- Switches - air flow, pressure, vacuum, or temperature
- External mufflers for additional silencing
- Air knives (used on blow-off applications)
- Variable frequency drive package

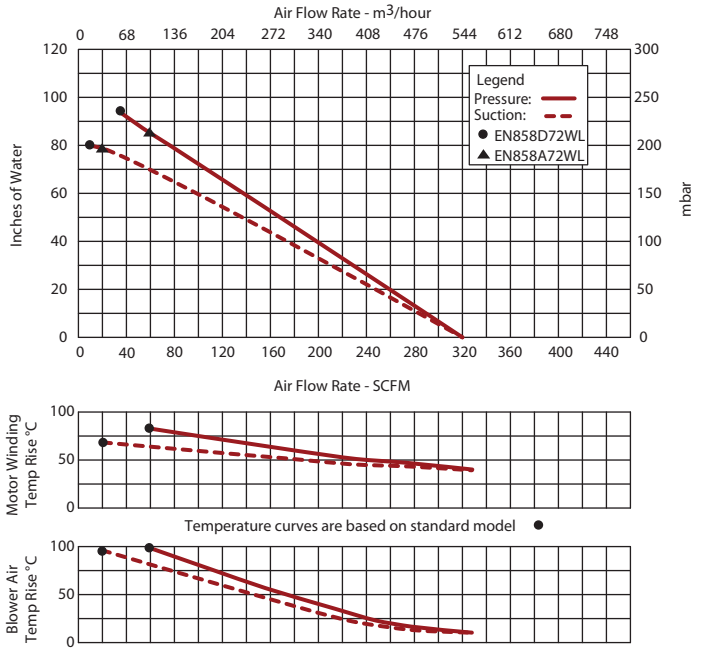


Blower Performance at Standard Conditions

60 Hz



50 Hz



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AMETEK®
TECHNICAL & INDUSTRIAL PRODUCTS

APPENDIX F

CORRECTIVE ACTION COST ESTIMATE

	Activity		Estimate
1.	SVE SYSTEM INSTALLATION		
	Assumptions - Scope of work detailed in April 2016 CMS report. - Installation of two new vertical SVE wells and one horizontal SVE trench. - Transport of existing SVE system at Charlotte S-K site to Archdale S-K site. - Data evaluation and reporting.		
	1a. Bidding/Access/Permitting	Subtotal (1a)	$4,367
	1b. Field Activities		
	Labor		$26,440
	Travel Expenses		$5,793
	Subcontractors (Utility Locate, Drilling, System Transport, Piping and Fittings, Soil Disposal)		$57,844
	Equipment		$3,050
		Subtotal (1b)	$93,127
	1c. Data Evaluation and Reporting	Subtotal (1c)	$5,080
		Activity 1. Subtotal	$102,574
2.	OPERATION AND MAINTENANCE OF SVE SYSTEM		
	Assumptions - Assumes operation of SVE system for three years. - Quarterly SVE influent and effluent sampling. - EPA TO-15 analysis for vapor samples. - Data evaluation and reporting.		
	2a. Field Activities (One Year)		
	Labor		$17,340
	Travel Expenses		$3,206
	Subcontractors (Utility Bills, Misc System Parts)		$9,900
	Equipment		$3,120
	Laboratory Costs		$2,640
		Subtotal (2a)	$36,206
	2b. Data Evaluation and Reporting (One Year)	Subtotal (2b)	$3,520
		Subtotal for One Year	$39,726
		Times Three Years	x 3
		Activity 2. Subtotal	$119,178
3.	POST-REMEDIATION CONFIRMATORY SOIL SAMPLING		
	Assumptions - Preparation of workplan detailing proposed scope of work. - Assumes advancement of 10 borings using a direct-push rig. - Collection of 20 soil samples for EPA Method 8260 and 8270 analyses. - Data evaluation and reporting.		
	3a. Workplan Preparation	Subtotal (3a)	$2,150
	3b. Field Activities		
	Labor		$2,310
	Travel Expenses		$264
	Subcontractors (Utility Locate and Drilling)		$6,270
	Equipment		$260
	Laboratory Costs		$6,343
		Subtotal (3b)	$15,447
	3c. Data Evaluation and Reporting	Subtotal (3c)	$2,800
		Activity 3. Subtotal	$20,397

	Activity		Estimate
4.	GROUNDWATER MONITORING		
	Assumptions - Scope of work detailed in April 2016 CMS report. - Semiannual sampling of 10 monitoring wells. - Analysis by EPA Method 8260 and EPA Method 8270 (PAHs only) - Semiannual reporting. - Assumes monitoring will continue for 10 years (20 events total).		
	4a. Field Activities (One Event)		
	Labor		$3,490
	Travel Expenses		$424
	Misc Expenses and Equipment		$850
	Laboratory Costs		$2,108
		Subtotal (4a)	$6,872
	4b. Data Evaluation and Reporting (One Event)	Subtotal (4b)	$1,740
		Subtotal for One Event	$8,612
		Times 20 Events	x 20
		Activity 4 Subtotal	$172,240
5.	AFVR EVENTS		
	Assumptions - Scope of work detailed in April 2016 CMS report. - Eight-hour vacuum extraction events from well MW-4R. - Up to six quarterly events. - Semiannual reporting.		
	5a. Field Activities (One Event)		
	Labor		$1,425
	Travel Expenses		$234
	Subcontractors (Vac Truck and Disposal)		$2,750
	Misc Expenses and Equipment		$160
		Subtotal (5a)	$4,569
	5b. Data Evaluation and Reporting (One Event)	Subtotal (5b)	$880
		Subtotal for One Event	$5,449
		Times 6 Events	x 6
		Activity 5 Subtotal	$32,694
6.	WELL ABANDONMENT/SYSTEM DECOMMISSIONING		
	Assumptions - Abandonment of 10 monitoring wells and 9 SVE wells. - Decommissioning of SVE system. - Reporting.		
	6a. Field Activities		
	Labor		$5,550
	Travel Expenses		$791
	Subcontractors (Driller for Well Abandonment, Misc Expenses for System Decommissioning)		$7,964
	Equipment		$180
		Subtotal (6a)	$14,485
	6b. Data Evaluation and Reporting	Subtotal (6b)	$1,870
		Activity 6 Subtotal	$16,355

1.	SVE SYSTEM INSTALLATION	$102,574
2.	OPERATION AND MAINTENANCE OF SVE SYSTEM	$119,178
3.	POST-REMEDIATION CONFIRMATORY SOIL SAMPLING	$20,397
4.	GROUNDWATER MONITORING	$172,240
5.	AFVR EVENTS	$32,694
6.	WELL ABANDONMENT/SYSTEM DECOMMISSIONING	$16,355
	TOTAL CORRECTIVE ACTION COST ESTIMATE	$463,438

APPENDIX G

LABORATORY ANALYTE LIST

APPENDIX G

LABORATORY ANALYTE LIST
SAFETY-KLEEN SERVICE CENTER
ARCHDALE, NORTH CAROLINA

Analyte	Method Detection Limit	Reporting Limit	Units
Volatile Organic Compounds by EPA 8260			
Acetone	4.9	100	ug/L
Acrolein	1.6	50	ug/L
Acrylonitrile	1.8	50	ug/L
Allyl Chloride (3-Chloropropylene)	0.73	10	ug/L
Benzene	0.24	2.0	ug/L
Bromobenzene	0.50	10	ug/L
Bromochloromethane	0.68	10	ug/L
Bromodichloromethane	0.57	10	ug/L
Bromoform	0.47	10	ug/L
Bromomethane	0.82	10	ug/L
n-Butylbenzene	0.47	10	ug/L
sec-Butylbenzene	0.30	10	ug/L
tert-Butylbenzene	0.31	10	ug/L
Carbon Disulfide	0.90	10	ug/L
Carbon Tetrachloride	0.56	2.0	ug/L
Chlorobenzene	0.37	10	ug/L
1-Chlorobutane	0.32	10	ug/L
Chloroethane	0.60	5.0	ug/L
2-Chloroethyl Vinyl Ether	0.46	10	ug/L
Chloroform	0.32	2.0	ug/L
Chloromethane	0.44	10	ug/L
2-Chlorotoluene	0.50	10	ug/L
4-Chlorotoluene	0.38	10	ug/L
Dibromochloromethane	0.37	10	ug/L
1,2-Dibromo-3-chloropropane	2.0	10	ug/L
1,2-Dibromoethane	0.73	10	ug/L
Dibromomethane	0.72	10	ug/L
1,2-Dichlorobenzene	0.47	10	ug/L
1,3-Dichlorobenzene	0.31	10	ug/L
1,4-Dichlorobenzene	0.25	10	ug/L
trans-1,4-Dichloro-2-butene	1.5	5.0	ug/L
Dichlorodifluoromethane	0.77	10	ug/L
1,1-Dichloroethane	0.45	2.0	ug/L
1,2-Dichloroethane	0.32	2.0	ug/L
1,1-Dichloroethene	0.51	2.0	ug/L
cis-1,2-Dichloroethene	0.52	2.0	ug/L
trans-1,2-Dichloroethene	0.50	2.0	ug/L
1,2-Dichloropropane	0.50	2.0	ug/L
1,3-Dichloropropane	0.69	2.0	ug/L
2,2-Dichloropropane	0.51	10	ug/L
1,1-Dichloropropene	0.40	10	ug/L
cis-1,3-Dichloropropene	0.38	2.0	ug/L
trans-1,3-Dichloropropene	0.36	2.0	ug/L
Ethylbenzene	0.26	2.0	ug/L
Ethyl Methacrylate	0.86	10	ug/L
Hexachlorobutadiene	0.67	10	ug/L
p-Isopropyltoluene	0.35	10	ug/L
Hexachloroethane	1.4	10	ug/L

APPENDIX G

LABORATORY ANALYTE LIST
SAFETY-KLEEN SERVICE CENTER
ARCHDALE, NORTH CAROLINA

Analyte	Method Detection Limit	Reporting Limit	Units
Iodomethane	0.59	10	ug/L
Isopropylbenzene	0.28	10	ug/L
Methacrylonitrile	1.2	10	ug/L
Methyl Acrylate	0.85	10	ug/L
Methyl Butyl Ketone (2-Hexanone)	0.92	10	ug/L
Methylene Chloride	0.48	5.0	ug/L
Methyl Ethyl Ketone (2-Butanone)	1.1	100	ug/L
Methyl Methacrylate	0.89	10	ug/L
4-Methyl-2-pentanone (MIBK)	1.7	10	ug/L
Methyl-tert-Butyl Ether	0.86	10	ug/L
Naphthalene	0.27	10	ug/L
2-Nitropropane	1.8	10	ug/L
Propionitrile (Ethyl Cyanide)	1.6	20	ug/L
n-Propylbenzene	0.30	10	ug/L
Styrene	0.37	5.0	ug/L
1,1,1,2-Tetrachloroethane	0.52	2.0	ug/L
1,1,2,2-Tetrachloroethane	0.47	2.0	ug/L
Tetrachloroethene	0.43	2.0	ug/L
Toluene	0.31	2.0	ug/L
1,2,3-Trichlorobenzene	0.54	10	ug/L
1,2,4-Trichlorobenzene	0.38	10	ug/L
1,1,1-Trichloroethane	0.45	2.0	ug/L
1,1,2-Trichloroethane	0.77	2.0	ug/L
Trichloroethene	0.40	2.0	ug/L
Trichlorofluoromethane	0.50	10	ug/L
1,2,3-Trichloropropane	0.66	10	ug/L
1,2,4-Trimethylbenzene	0.28	10	ug/L
1,3,5-Trimethylbenzene	0.45	10	ug/L
Vinyl Acetate	0.61	10	ug/L
Vinyl Chloride	0.70	2.0	ug/L
m+p-Xylene	0.42	5.0	ug/L
o-Xylene	0.29	5.0	ug/L
Xylenes, total	0.42	5.0	ug/L

APPENDIX G

LABORATORY ANALYTE LIST
SAFETY-KLEEN SERVICE CENTER
ARCHDALE, NORTH CAROLINA

Analyte	Method Detection Limit	Reporting Limit	Units
Polynuclear Aromatic Hydrocarbons by EPA 8270			
Acenaphthene	0.077	1.0	ug/L
Acenaphthylene	0.071	1.0	ug/L
Anthracene	0.053	1.0	ug/L
Benzo(a)anthracene	0.049	1.0	ug/L
Benzo(b)fluoranthene	0.017	1.0	ug/L
Benzo(ghi)perylene	0.25	1.0	ug/L
Benzo(k)fluoranthene	0.047	1.0	ug/L
Chrysene	0.049	1.0	ug/L
Dibenzo(a,h)anthracene	0.14	1.0	ug/L
Benzo(a)pyrene	0.065	1.0	ug/L
Fluoranthene	0.045	1.0	ug/L
Fluorene	0.066	1.0	ug/L
Indeno(1,2,3-cd)pyrene	0.11	1.0	ug/L
1-Methylnaphthalene	0.080	1.0	ug/L
2-Methylnaphthalene	0.083	1.0	ug/L
Naphthalene	0.064	1.0	ug/L
Phenanthrene	0.046	1.0	ug/L
Pyrene	0.038	1.0	ug/L