Environmental Resources Management

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July 28, 2017
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Mr. David Brownlee
Mr. Barrett Fischer
Response and Remediation Program
Georgia Environmental Protection Division
2 Martin Luther King, Jr. Drive, SE
Suite 1054, East Tower
Atlanta, Georgia 30334-9000

Subject: Former I. Schneid Facility
Atlanta, Fulton County, Georgia, HSI Site No. 10753

Dear Messrs. Brownlee and Fischer:

Attached you will find the Voluntary Compliance Status Report (VCSR) for the referenced site. It provides a comprehensive summary of the site investigation and remediation activities conducted at the property since the 2002. A copy of the *Certification of Compliance with Risk Reduction Standards* statement has been sent to Mr. Steve Chapman for his signature. We will forward it to you once he returns it to us. We will also forward documentation of the publishing of the required public notice. Please note that the draft of the Uniform Environmental Covenant (UEC) is included as Appendix D to the report.

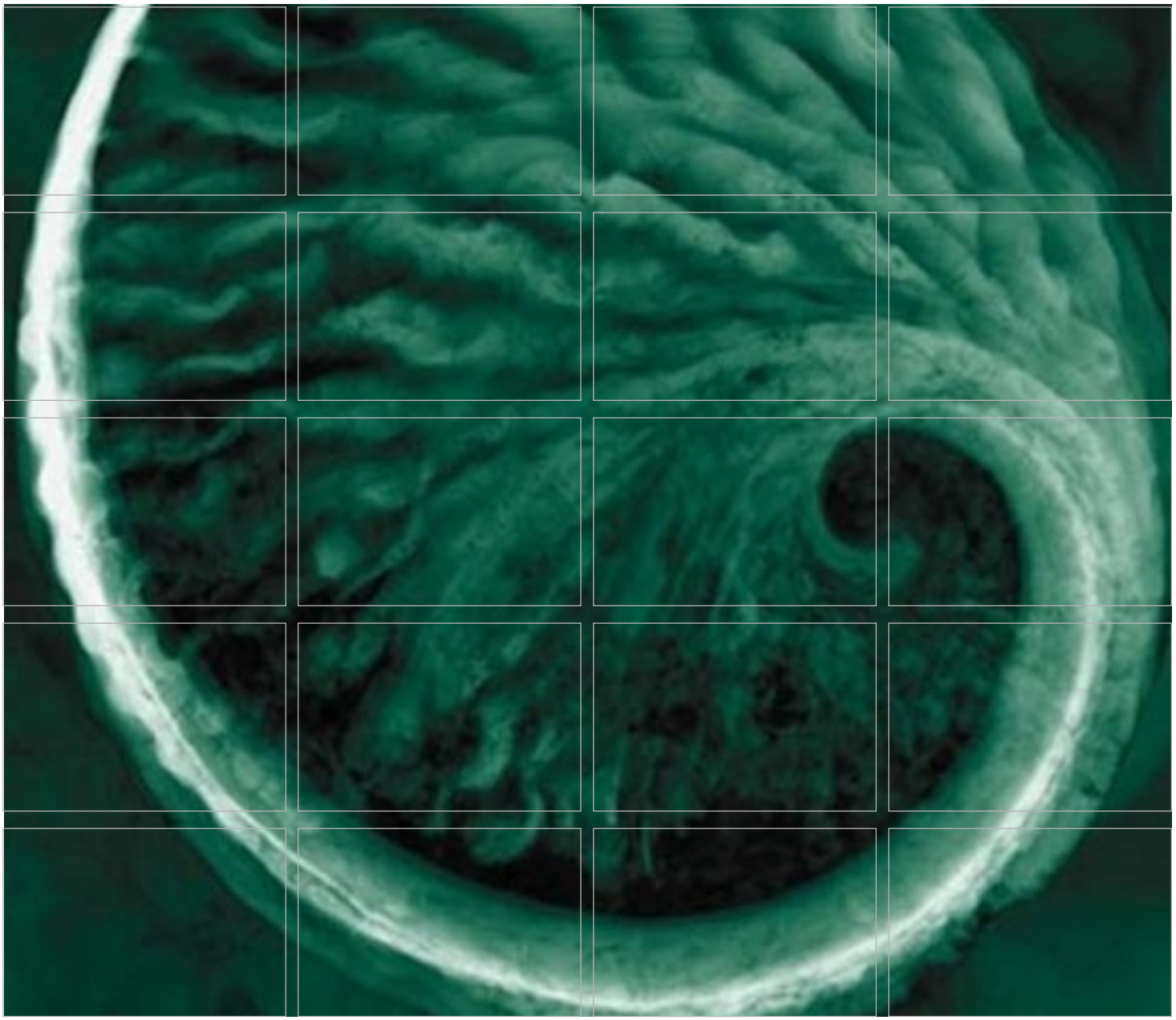
We look forward to your review of this VCSR and the draft UEC, and to the delisting of the site. Please contact us with any questions or comments you have concerning this matter.

Sincerely,

Adria L. Reimer, P.G. #2004
GA Professional Geologist

Jeffrey N. Bilkert
Principal

cc: Steve Chapman



Voluntary Compliance Status Report

Former I. Schneid Facility 1429 Fairmont Avenue
Atlanta, Georgia HSI Site No. 10753

Submitted Under Georgia's
Voluntary Remediation Program (VRP) Act

July 27, 2017

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STATEMENT OF FINDINGS

This Voluntary Compliance Status Report (VCSR) has been prepared for the Former I. Schneid facility (the "Site") in Atlanta, Georgia. This section of the VCSR presents a concise statement of findings in plain English concerning the final resolution of soil contamination at the Site. In particular, it provides a summary of activities conducted to remediate soils at the Site and to demonstrate compliance with Georgia Environmental Protection Division (GAEPD)-approved cleanup standards.

Background

The Site is located at 1429 Fairmont Avenue, Atlanta, Fulton County, Georgia. Fulton County Tax Assessor records identify the Site as tax parcel identification number 17-0188-0002-017-0. The tax records indicate the Site includes 3.09 acres.

One building is located at the Site. I. Schneid operated as a specialty chemical manufacturing company at the Site from 1968 until 2002. The building is currently being renovated for commercial use.

The Site was listed on Georgia's Hazardous Sites Inventory (HSI) in February 2003 because of a release of naphthalene to soil that exceeded a reportable quantity. The Site was not listed on the HSI because of a release to ground water that exceeded a reportable quantity.

After being listed on the HSI, the Site was regulated by GAEPD rules established under the Hazardous Sites Response Act (HSRA). These rules are administered by GAEPD's Response and Remediation Program. Under these rules, certain activities were conducted at the Site. They included:

- Site investigations to evaluate the extent of soil and ground water contamination.
- Completion of soil cleanup using various techniques.
- Implementation of ground water cleanup.

The Site was enrolled in GAEPD's Voluntary Remediation Program (VRP) in March 2016. Remediation of sites enrolled under this program is regulated by Georgia's Voluntary Remediation Program Act. A key element of the Act is that sites listed on the HSI solely because of a release

to soil that exceeds a reportable quantity are only required to clean up soils. Ground water cleanup at such sites is not required.

Additional work conducted at the Site under the VRP included:

- Monitoring and removal of free phase liquid product from the top of the water table in a former source area.
- Evaluation of the vapor intrusion pathway.
- Evaluation of how dissolved phase ground water contamination that remains in the source area at the Site may affect Woodall Creek.
- Submittal of progress reports as required by the VRP.

The Site and surrounding area are served by a public water system operated by the city of Atlanta. Furthermore, contaminated ground water does not extend beyond the property boundaries of the Site. Therefore, human exposure to contaminants in ground water is not a complete exposure pathway. The vapor intrusion assessment demonstrated that vapor intrusion is not a concern at the Site. Similarly, the evaluation showed that dissolved phase ground water contamination that remains in the source area at the Site will not affect Woodall Creek at levels that will exceed established surface water quality standards.

Chemicals of Interest at this Site

The Chemicals of Interest (CoI) at this Site included Volatile Organic Compounds, Semi-Volatile Organic Compounds, pesticides, herbicides, and metals.

Summary of Site Investigation and Soil Cleanup

The primary sources of chemicals released at the Site include a floor trench drain, a sump, and a former solvent mixing room. The extent of chemicals in soil was investigated by drilling a number of soil borings and collecting soil samples for laboratory analyses. Based on the results of this work, five areas at the Site were identified as having soils that were not compliant with the approved cleanup standards. Most of these areas were located inside the building in proximity to the source areas. One was located just outside the building, in proximity to the former solvent mixing room.

Soils in the five areas were cleaned up using a variety of cleanup technologies, including excavation and off-Site disposal. The cleanup

activities were conducted between 2005 and 2014. Reports of cleanup progress were submitted periodically to GAEPD during this time.

Confirmation soil samples were collected from each of the areas following completion of the cleanup activities. Laboratory analyses of these samples demonstrated that each of the areas had been cleaned up to the approved cleanup standards.

Site Compliance

The cleanup standards for soils at the Site are referred to as Type 1 and Type 2 Risk Reduction Standards (RRS). They were approved by GAEPD and are protective of human health and the environment at residential properties. The results of the laboratory analyses conducted on soil samples collected at the Site following the completion of the soil cleanup demonstrate that the soils at the Site are compliant with Type 1 and Type 2 RRS.

Uniform Environmental Covenant

A Uniform Environmental Covenant (UEC) has been prepared and will be attached to the property deed for the Site. The UEC will prohibit the use of ground water at the Site. The UEC will also place certain restrictions on ground disturbance (e.g., excavation, trenching, etc.) in proximity to the location of the free phase liquid product.

CERTIFICATION OF COMPLIANCE WITH RISK REDUCTION STANDARDS

I certify under penalty of law that this report and all attachments were prepared under my direction in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Based on my review of the findings of this report with respect to the Risk Reduction Standards of the Rules for Hazardous Site Response, Rule 391-3-19-.07, I have determined that the soils at tax parcel identification number 17-0188-0002-017-0 are compliant with Type 1 and Type 2 RRS.

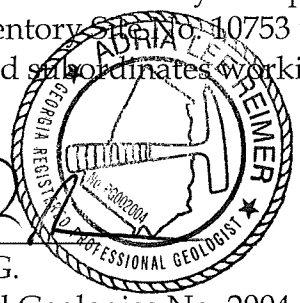
Certified By: _____ Date: _____

Steve Chapman
I.S. Liquidation, LLC

GROUND WATER SCIENTIST STATEMENT

I certify that I am a qualified ground water scientist who has received a baccalaureate or post-graduate degree in the natural sciences or engineering, and have sufficient training and experience in ground water hydrology and related fields, as demonstrated by state registration and completion of accredited university courses, that enable me to make sound professional judgments regarding ground water monitoring and contaminant fate and transport.

I further certify that this Voluntary Compliance Status Report for Hazardous Site Inventory Site No. 10753 was prepared by me and appropriate qualified subordinates working under my direction.



Adria L. Reimer, P.G.
Georgia Professional Geologies No. 2004

7/27/2017
Date

1.0 INTRODUCTION

1.1 OVERVIEW

Environmental Resources Management (ERM) has prepared this Voluntary Compliance Status Report (VCSR) on behalf of I.S. Liquidation, LLC ("ISL"). The VCSR is for the Former I. Schneid facility (the "facility" or "the Site"), which is currently listed on the Georgia Hazardous Site Inventory (HSI #10753). The Site is located at 1429 Fairmont Avenue, Fulton County, Georgia. ISL was a specialty chemicals manufacture that produced products for the janitorial and landscaping use.

The Site was listed on the HSI in February 2003 because of a release of naphthalene to soil that exceeded a reportable quantity. The Site was not listed on the HSI because of a release to ground water that exceeded a reportable quantity.

After being listed on the HSI, the Site was regulated by Georgia Environmental Protection Division (GAEPD) rules promulgated under the Hazardous Sites Response Act (HSRA). These rules are administered by GAEPD's Response and Remediation Program. Under these rules, certain activities were conducted at the Site. They included:

- Site investigation to evaluate the extent of soil and ground water contamination.
- Completion of soil remediation using various techniques, including soil vapor extraction, *in-situ* chemical oxidation, and excavation.
- Ground water remediation using air sparging.

The Site was enrolled in GAEPD's Voluntary Remediation Program (VRP) in March 2016. Remediation of sites enrolled under this program is regulated by Georgia's Voluntary Remediation Program Act. A key element of the Act is that sites listed on the HSI solely because of a release to soil that exceeds a reportable quantity are only required to remediate soils. Ground water remediation at such sites is not required.

Additional work conducted at the Site under the VRP has included:

- Monitoring and removal of free phase liquid product from the top of the water table in a former source area.
- Evaluation of the vapor intrusion pathway.

- Modeling to evaluate the potential for residual dissolved phase ground water contamination in a former source area to affect Woodall Creek.
- Submittal of progress reports as required by the VRP.

1.2 CHEMICALS OF INTEREST

Site investigation activities at the Former I. Schneid facility date back to the mid-1990s. The Site investigation history includes analysis of soil and ground water samples for a variety of chemicals included in the following laboratory methods:

- Volatile Organic Compounds (VOCs) by method 8260.
- Semi-Volatile Organic Compounds (SVOCs) by method 8270.
- Pesticides by method 8080.
- Herbicides by method 8151.
- Metals by method 6010.

Based on the results of this work a list of Chemicals of Interest (CoI) for the Site was developed. The CoI list is shown in Table 1-1.

Over the course of correspondence between ERM and GAEPD, a set of Risk Reduction Standards (RRS) was approved to guide remediation efforts at the Site. The approved RRS for the various CoI in soil are included in Table 1-1. The RRS were approved by GAEPD by way of correspondence dated May 12, 2005 and November 28, 2006.

1.3 HSI SITE STATUS

This Site was placed on Georgia's HSI in 2003 because of a release of naphthalene to soil that exceeded a reportable quantity. A release to ground water that exceeded a reportable quantity did not occur at the Site.

This Site was accepted into Georgia's VRP on March 21, 2016.

1.4 PURPOSE OF THIS DOCUMENT

The purpose of this VCSR is to provide final documentation of soil remediation at the Site and to certify compliance with the applicable RRS within the framework of Georgia's VRP. In addition, this VCSR provides information concerning the evaluation of the vapor intrusion pathway at the Site, as well as modeling conducted to evaluate the potential for dissolved phase contamination that remains in the former source to affect Woodall Creek.

1.5 ORGANIZATION

This VCSR presents a discussion of the regulatory status and Certification of Compliance with RRS for HSI Site 10753, under the Voluntary Remediation Program Act, as follows:

- Section 2 presents a discussion of Site background information, including Site location and sources of regulated compounds. A Conceptual Site Model for the Site is also discussed in Section 2.
- Section 3 presents a summary of the Site investigation activities that have been conducted over the years at the Site.
- Section 4 presents a summary of the results of the Site investigation activities.
- Section 5 presents a summary of corrective action activities for soil that have been implemented at the Site.
- Section 6 presents a summary of post-remediation soil conditions at the Site, including compliance with the approved RRS.
- Section 7 presents information concerning the responsible parties for the Site.
- Section 8 describes the public notice provided by ISL.
- Section 9 describes the continuing actions that will be in place in order to maintain compliance with the approved RRS pending approval of this VCSR.
- Section 10 provides a list of references for pertinent documents that have been prepared previously for the Site.

2.0 SITE BACKGROUND INFORMATION & CONCEPTUAL SITE MODEL

2.1 LOCATION AND DESCRIPTION

The location of the Site is shown on Figure 2-1. The Site is located at 1429 Fairmont Avenue, Atlanta, Fulton County, Georgia. It includes 3.09-acres. Records maintained by the Fulton County Tax Assessor's office shows that the tax parcel identification number for the Site is 17-0188-0002-017-0. A Site Plan is provided as Figure 2-2.

2.2 POTENTIAL SOURCES OF REGULATED MATERIALS

A single building with approximately 95,000 square feet of space is located at the Site. It was reportedly developed in 1962. ISL was a specialty chemical manufacturing company that operated at the Site from 1962 to 2002. The sources of regulated materials in soil and ground water at the Site have been identified as a solvent mixing room, a floor trench drain, and a sump. These source areas were generally located in the northeastern portion of the Site building. The locations of these features are shown on Figure 2-2.

2.3 SITE DESCRIPTION

The Site includes 3.09-acres located on Fulton Count tax parcel number 17-0188-0002-017-0. A map of the tax parcel is provided in Appendix A. Current ownership information for the Site is as follows:

Fairmont Flats, LLC
1819 Peachtree Road, NE
Suite 275
Atlanta, Georgia 30309

The elevation of the Site is approximately 915 feet above mean sea level. Ground surface topography at the Site is generally flat. The ground surface in the vicinity of the Site slopes generally southwest, towards Woodall Creek. Woodall Creek is located approximately 1,000 feet southwest of the Site.

A single building with approximately 95,000 square feet of space is located in the Site. Historically, the area surrounding the Site has been used for industrial purposes. In the last 10 years, however, residential development has occurred in the area. The Site and surrounding area are

served by a public water system operated by the city of Atlanta. No water supply wells used for drinking water area located near the Site.

2.4 *RISK REDUCTION STANDARDS*

RRS used to evaluate the remediation of soils at the Site are shown in Table 1-1. These were approved by GAEPD in correspondence dated May 12, 2005 and November 28, 2006.

RRS for ground water cleanup are not included for this Site, as ground water cleanup is not required per Section 12-8-107(g)(2) of Georgia's Voluntary Remediation Program Act.

2.5 *CONCEPTUAL SITE MODEL*

The Conceptual Site Model provides an assessment of exposure pathways to human and environmental receptors that may have been or could be potentially exposed to regulated chemicals from a release at the Site. ISL ceased operations at the Site in 2002. Following that time, the Site was occupied by a residential home builder who used the building for office space and storage. The Site was vacant for several years after the builder went bankrupt in the late 2000s. It is understood that the Site building is currently being renovated for future commercial use.

Although the release details are not known, the soil investigation data show that the regulated compounds were most likely released from the source areas discussed above, which were generally located in the northeast portion of the Site building.

2.5.1 *Assessment of the Soil Exposure Pathway*

The soil exposure pathway is a pathway that could potentially be completed for future commercial workers or residents at the Site; however, remediation activities have brought the Site soils into compliance with residential RRS. Therefore, the soils at the Site do not pose unacceptable risk. The residential RRS were calculated in a manner that considered protection of direct soil exposure and the soil-to-ground water pathway. Thus, the soils remaining on Site do not pose an unacceptable risk to human health or the environment.

2.5.2 *Assessment of the Ground Water Exposure Pathway*

The Site and surrounding area are served by a municipal water supply system operated by the city of Atlanta. Ground water is not being used

for human consumption. Furthermore, ground water contamination does not extend beyond the Site property boundaries. Therefore, the human exposure to contaminated ground water is not currently an exposure pathway.

2.5.3 *Assessment of the Surface Water Exposure Pathway*

As requested by GAEPD, ERM conducted efforts to evaluate whether or not dissolved phase contaminants in ground water in the source area on the Site could affect Woodall Creek at levels that would result in an exceedance of Georgia's In-Stream Water Quality Standards. This evaluation was conducted using a mass balance approach that assumed the concentration of contaminants in the source area would discharge directly to Woodall Creek. This is a conservative approach, as Woodall Creek is located approximately 1,000 feet southwest of source area and the additional factors of dilution, dispersion, advection, and attenuation, which serve to reduce contaminant concentrations downgradient of the source, were not factored into the calculations.

The results of the mass balance calculations demonstrated that surface water quality standards in the Woodall Creek would not be exceeded by the contaminant concentrations present in the source area, even if the source area concentrations were directly discharged into the creek. Thus, the dissolved phase ground water contaminant concentrations remaining in the source area on Site do not pose an unacceptable risk to human health or the environment.

ERM presented the results of the mass balance calculations to GAEPD in a report dated February 9, 2017. A copy of this report is provided in Appendix B. GAEPD concurred that the surface water pathway had been sufficiently addressed in a letter dated May 2, 2017.

2.5.4 *Assessment of the Vapor Intrusion Exposure Pathway*

ERM conducted a Vapor Intrusion (VI) assessment at the Site in 2016. The assessment was conducted in accordance with a work plan dated May 25, 2016 and included:

- Visual observations at the building to identify and assess sampling locations and building interior conditions to identify potential underground utilities, potential preferential pathways, and materials that could potentially contribute VOCs to indoor air.
- Collection of four sub-floor slab soil vapor samples (three locations and one duplicate sample) and three samples each from two sub-

floor slab multi-depth soil gas sampling locations at the Site to assess VOCs in sub-floor slab soil vapor.

- Collection of five indoor air samples to evaluate VOCs inside the building. An outdoor, ambient air sample was also collected.
- Comparison of analytical results to applicable screening levels to evaluate whether additional assessment and/or other action is required.

Details concerning the field activities to conduct the observations and sampling were provided in a Vapor Intrusion Assessment Report dated August 3, 2016 (Appendix C).

The results of the sub-floor slab sampling showed that concentrations of 1,4-dichloroethene (1,4-DCE), ethylbenzene, naphthalene, and xylenes were present in sub-floor slab soil gas samples at concentrations that exceeded their respective commercial Vapor Intrusion Screening Levels (VISLs) established by USEPA for sub-floor slab soil gas. However, the results of the indoor air sampling/analyses indicated that VOCs detected in the sub-floor slab soil vapor samples do not present a VI risk to future building occupants. This conclusion was based on the following:

- None of the VOCs detected in sub-floor slab soil gas at concentrations above their respective soil vapor VISLs were detected in indoor air samples above their indoor air commercial or residential VISLs.
- Concentrations of ethylbenzene and xylenes were higher in the outdoor air than in indoor air indicating that the indoor air concentrations were likely attributable to upwind sources.
- The Target Risk for Carcinogens (R) associated with the highest detected concentrations of 1,4-DCE and naphthalene were at least 1.5 orders of magnitude below commercial VISLs ($R = 1 \times 10^{-5}$) at a calculated $R = 8.8 \times 10^{-6}$ and $R = 5.3 \times 10^{-6}$, respectively.

Based on the results of the assessment, no further assessment VI at the former I. Schneid facility building was recommended.

The results of the VI assessment were submitted to GAEPD in a report dated August 3, 2016. A copy of the report is provided in Appendix C. In a correspondence dated September 7, 2016, GAEPD concurred with the results of the VI assessment and stated that sub-floor slab vapor does not present a VI risk to future building occupants under current Site-specific conditions. Thus, VOCs in sub-floor slab soil gas do not pose an unacceptable risk to human health or the environment.

3.0 SUMMARY OF SITE INVESTIGATIONS

This section of the VCSR provides a summary of Site investigations conducted at 1429 Fairmont Avenue between 2002 and 2005, prior to the implementation of corrective action. The Site investigation activities conducted in 2002 and 2003 were performed by Earth Tech. ERM conducted additional Site investigation activities in 2004 and 2005.

3.1 SOIL

A summary of available details concerning the Site investigation activities related to the investigation of soil contamination at the Site are provided below.

EARTH TECH – 2002 and 2003

Site investigation activities conducted by Earth Tech between 2002 and 2003 are summarized as follows:

- 2002
    - Collected six soil samples.
    - Samples were analyzed for VOCs, SVOCs, chlorinated pesticides and herbicides.
- 2003
    - Installed 22 soil borings.
    - Soil samples were analyzed for VOCs.

Geologic logs and laboratory analytical reports for the work conducted by Earth Tech were included in the Corrective Action Plan (CAP) for the Site, which was submitted to GAEPD in October 2004. Additional details of the work conducted by Earth Tech are not available.

ERM- 2004 and 2005

ERM installed 16 soil borings at the Site in 2004 and 2005. The analyses conducted on soil samples collected from the borings included VOCs, SVOCs, pesticides and herbicides. Copies of the analytical reports for the work conducted by ERM were submitted previously to GAEPD in the

October 2004 CAP and other documents. Additional details of the work conducted by ERM in 2004 and 2005 are not available.

3.3 GROUND WATER

Fifteen ground water monitoring wells are currently located at the Site. These wells were installed over the years by Earth Tech and ERM. Geologic logs and well construction diagrams for the wells were submitted to GAEPD in the October 2004 CAP and other reports to GAEPD. Other wells have also been present at the Site, but were abandoned as part of Site remediation activities.

The 2004 CAP provided a sampling schedule for the ground water monitoring wells at the Site. Ground water monitoring at the Site has been performed periodically since 2005. The results of the monitoring, including copies of laboratory analytical reports, have been reported to GAEPD in various Corrective Action Effectiveness Reports and well as other submittals (e.g., Voluntary Remediation Plan and Conceptual Site Model).

4.0 RESULTS OF SITE INVESTIGATIONS

4.1 SOIL

The locations of soil brings installed at the Site between 2002 and 2005 are shown on Figure 4-1. Also shown on Figure 4-1 are the results of the analyses conducted on the soil samples collected from the borings. Concentrations of CoIs that exceed their respective RRS are highlighted on the figure.

The results of the Site investigation activities identified five areas of the Site that required remediation to be compliant with the approved RRS for soil. All were located in proximity to the source areas discussed in Section 2.2 and were referred to as Areas B, L, O, P, and S. The locations of these areas are shown on Figure 4-1.

4.2 EVALUATION OF GROUND WATER CONDITIONS

Fifteen (15) ground water monitoring wells are present at the Site. The locations of the wells are shown on Figure 4-2. Also shown on Figure 4-2 are the locations of five monitoring wells that were located at the Site, but have been abandoned during the course of corrective action. Geologic logs and other information concerning the construction of these wells have been provided previously to GAEPD.

Ground water monitoring at the Site has been performed periodically since 2005. The monitoring events have included ground water elevation monitoring and ground water sampling. The results of the January 8, 2016 ground water elevation monitoring are shown on Figure 4-3. Also shown on Figure 4-3 are potentiometric surface contours estimated from the data, as well as the estimated direction of ground water movement at the Site. As shown on Figure 4-3, the estimated direction of ground water movement based on the January 8, 2016 data is towards the southwest. This is consistent with estimates from previous monitoring events.

A summary of the ground water quality data for the Site is provided in Table 4-1. The most recent data for the existing wells at the Site are shown on Figure 4-4.

Free phase product has been detected on top of the water table at the Site in monitoring wells MW-19 and MW-20 (see Figure 4-2). These two wells are located at or in the immediate vicinity of former source areas O and S.

A summary of the results of the free phase monitoring conducted at wells MW-19 and MW-20 from March 2015 through January 2017 is provided in Table 4-2. During this time period, two technologies were used to assess practicability of free phase product recovery. They included:

- Product absorbing socks; and
- High vacuum extraction (HVE).

Details concerning the assessment of these technologies are provided in the report included in Appendix B. Based on the assessment, the following observations and conclusions concerning free phase product at the Site were made based:

- The monitoring results indicate that the presence and apparent thickness of free product at MW-19 and MW-20 are dependent on ground water levels. This indicates that the product is residual in nature (i.e., non-mobile product entrained in soil pore space) rather than a lense of mobile free phase product.
- Free product transmissivity is considered a better indicator of the feasibility of product recoverability than apparent thickness[1]; however, the amount of product observed at MW-19 and MW-20 is considered insufficient to conduct a bail-down test to estimate transmissivity. Further, any transmissivity test results would be obfuscated by the observed correlation between water table fluctuations at the Site and apparent thickness.
- The extent of residual product at the Site appears localized to the former source area and conditions are not indicative of a migrating body.
- The average apparent thickness of free product remaining in the source area measured over a nearly two-year period is less than 0.05 foot and, due to the nature of product with a density less then water and as noted above, this thickness may exaggerate the true thickness in the aquifer by a factor of 2-10.
- The use of absorbent socks resulted in minimal free product recovery as the remaining product is primarily trapped in soil pore spaces as immobile residue, with minimal accumulation in the well occurring primarily as the result of drainage from pore spaces during periods of low ground water levels.
- The HVE event resulted in minimal free product recovery as the product is primarily trapped in soil pore spaces as immobile

[1] ITRC (Interstate Technology & Regulatory Council), 2009. *Evaluating LNAPL Remedial Technologies for Achieving Project Goals.* LNAPL-2. http://www.itrcweb.org/GuidanceDocuments/LNAPL-2.pdf

residue and appears to be limited in extent, as evidenced by the low ratio of product to ground water recovered during the event (i.e., < 0.3% of recovered liquid was identified as diesel-like product).

Based on a review of the assessment, GAEPD concluded that active recovery or further remediation of the free phase product was not necessary.

5.0 SUMMARY OF CORRECTIVE ACTION ACTIVITIES

A CAP was prepared for the Site and submitted to the GAEPD in October 2004. The CAP was approved by GAEPD by way of a correspondence dated February 2, 2005. The approved CAP called for the use of *in-situ* chemical oxidation to remediate unsaturated soils at the Site. It also called for the use of a biosparge system to remediate ground water. Because remediation of ground water at this Site is not required under the VRP, no further discussion of ground water remediation is included in this VCSR.

As discussed in Section 4.1, the results of the Site investigation activities showed that soils in five areas of the Site required remediation to be compliant with the approved RRS. The five areas were referred to as Areas B, L, O, P, and S. The locations of these areas are shown on Figure 4-1. Details concerning corrective action activities conducted at each area are provided is the following sections.

5.1 AREA B

Area B included approximately 450 square feet centered over a portion of a former floor trench drain. Soil samples collected from a depth of 6 – 8 feet at boring GP-12 during the Site assessment activities contained concentrations of 1,2-dichlorobenzene at concentrations which, at the time, exceeded the approved RRS (see Figure 4-1).

Soils in Area B were remediated using a combination of heat-catalyzed persulfate injections and excavation. The first round of persulfate injection in Area B was conducted in 2005. Confirmation soil sampling in Area B to evaluate the effectiveness of the chemical injection was conducted in February 2006 and included four soil borings (GP-58 through GP-61). Their locations are shown on Figure 5-1. Sample depths at each boring were 4 feet, 8 feet, and 12 feet. Soil samples from the borings were analyzed for VOCs and SVOCs. The results of the analyses are shown on Figure 5-1. Copies of the analytical reports for the samples were provided to GAEPD in the *First Annual Report on Effectiveness of Corrective Action* dated September 2006. As noted on Figure 5-1, concentrations of 2,4-dichlorophenol at soil boring GP-58 exceeded the approved RRS.

A second round of heat-catalyzed persulfate injection was conducted at Area B in November 2006. Confirmation soil sampling in Area B to evaluate the effectiveness of the second chemical injection was conducted in January 2007 and included two soil boring identified as B-1-1-3 and B-2-

1-3 (see Figure 5-1). These confirmation soil borings were located in immediate proximity to soil boring GP-12 and GP-58, respectively. Soil samples from borings B-1-1-3 and B-2-1-3 were analyzed for VOCs and SVOCs. The results of the analyses are shown on Figure 5-1. Copies of the analytical reports for the samples were provided to GAEPD in the *Second Annual Report on Effectiveness of Corrective Action* dated October 2007. As noted on Figure 5-1, the concentrations of VOCs and SVOCs at soil boring B-1-1-3 were less than the approved RRS. At soil boring B-2-1-3, however, the concentrations of several CoIs exceeded their respective RRS. These results show that the two rounds of heat-catalyzed persulfate injections did not completely remediate the soils at Area B.

Remediation of Area B was completed in 2010 by way of soil excavation and off-Site disposal. Details concerning these activities were provided to GAEPD in the *Fifth Annual Report on Effectiveness of Corrective Action* dated February 2011. The area excavated included that portion of Area B in proximity to confirmation soil borings GP-58 and B-2-1-3. The planned limits of the excavation are shown on Figure 5-2.

Confirmation soil samples were collected from the base and sidewalls of the excavation. The initial set of samples included 12 from the excavation sidewalls and one from the base of the excavation. The samples were analyzed for VOCs and SVOCs. A summary of the analytical results is provided in Table 5-1. As shown in Table 5-1, concentrations of phenanthrene, 1,2-dichlorobenzne, and 1,4-dichlorobenzene in confirmation samples from the south and west sidewalls exceeded the approved RRS. Because of this, the south and west sidewalls are the excavation were over-excavated and re-sampled. A second set of confirmation samples was collected from the over-excavated sidewalls and analyzed for VOCs and SVOCs. The analytical results are included in Table 5-1. The results showed that the concentrations of VOCs and SVOCs were below their respective RRS.

Final limits of the excavation are shown on Figure 5-3. Copies of laboratory data reports for the confirmation samples were provided to GAEPD in the *Fifth Annual Report on Effectiveness of Corrective Action* dated February 2011. GAEPD concurred that the soil in Area B were in compliance with the approved RRS in a letter dated March 10, 2011.

5.2 AREA L

Area L included approximately 275 square feet located west of a former sump. Soil samples collected from a depth of 2 – 4 feet at boring GP-10

during the Site assessment activities contained concentrations of several CoIs at concentrations that exceeded the approved RRS (see Figure 4-1).

Soils in Area L were remediated using two rounds of heat-catalyzed persulfate injections. The first round was performed in December 2005. Confirmation soil sampling in Area L to evaluate the effectiveness of the chemical injection was conducted in February 2006 and included five soil borings (GP-47 through GP-51). Their locations are shown on Figure 5-4. Sample depth at each of these locations was 4 feet. Soil samples from the borings were analyzed for VOCs and SVOCs. The results of the analyses are shown on Figure 5-4. Copies of the analytical reports for the samples were provided to GAEPD in the *First Annual Report on Effectiveness of Corrective Action* dated September 2006. As noted on Figure 5-4, concentrations of ethylbenzene and xylene at soil boring GP-48 exceeded the approved RRS.

A second round of heat-catalyzed persulfate injection was conducted at Area L in November 2006. Confirmation soil sampling in Area L to evaluate the effectiveness of the second chemical injection was conducted in January 2007 and included one soil boring identified as L-1-1-3 (see Figure 5-4), which was located in immediate proximity to soil boring GP-48. Soil samples from boring L-1-1-3 were analyzed for VOCs and SVOCs. The results of the analyses are shown on Figure 5-4. Copies of the analytical reports for the samples were provided to GAEPD in the *Second Annual Report on Effectiveness of Corrective Action* dated October 2007. As noted on Figure 5-4, the concentrations of VOCs and SVOCs at soil boring L-1-1-3 were less than the approved RRS. As was reported to GAEPD in the *Second Annual Report on Effectiveness of Corrective Action,* these results demonstrate that the soils in Area L are compliant with the approved RRS.

5.3 AREA P

Area P included approximately 2,050 square feet located south of the former floor trench drain. Concentrations of 2,6-dinitrotoluene in soil samples collected at borings GP-15 and GP-16 during the Site assessment exceeded the approved RRS (see Figure 4-1).

Soils in Area P were remediated using two rounds of heat-catalyzed persulfate injections. The first round was conducted in December 2005. The second round was conducted in January 2006. Confirmation soil samples were collected following the injection events at the five locations (GP-52 through GP-56) shown on Figure 5-5. Sample depths at each of these locations were 4 feet, 8 feet, and 12 feet. The samples were analyzed for VOCs and SVOCs.

The results of the analyses conducted on the confirmation samples collected from Area P are shown on Figure 5-5. The results demonstrate that the soils at Area P are compliant with the approved RRS. Copies of the laboratory reports for the analyses were provided to GAEPD in the *First Annual Report on Effectiveness of Corrective Action* dated September 2006.

5.4 AREAS O AND S

Areas O and S include approximately 900 square feet and 1,000 square feet, respectively. Both were located in proximity to the former solvent mixing room. Area O was located inside the northeast corner of the Site building. Area S was located outside the northeast corner. Concentrations of several CoIs in soil samples collected from Site assessment soil borings in these areas exceeded the approved RRS (see Figure 4-1).

Soils in Areas O and S were remediation using a combination of heat-catalyzed persulfate, soil vapor extraction (SVE) and excavation. Heat-catalyzed persulfate injections were performed in 2005 and 2006. The SVE system was started in 2007 and operated for a period of more than five years until repeated Site vandalism made continued operation of the system impracticable. The remediation efforts using heat-catalyzed persulfate and SVE did not bring the soils in Areas O and S into compliance with the approved RRS, however.

Excavation of Areas O and S was conducted between June 2013 and April 2014. Pre-excavation activities include the following:

- Installation of 21 soil borings.
- Collection/analyses of soil samples from the borings to better define the horizontal and vertical limits of the excavation.
- Excavation design.
- Demolition and temporary shoring of the northeast corner of the Site building to allow for excavation of Area O.

The excavation design based on the results of the sampling is shown on Figure 5-6. The excavation was performed using a track-mounted excavator. Confirmation soil samples were collected from the sidewalls and bottom of the excavation to evaluate compliance with the approved RRS. The confirmation samples were analyzed for selected VOCs and SVOCs. Selected samples were also analyzed for herbicides and selenium. Based on the results of the analyses, the horizontal and/or vertical extent

of the excavation was increased to remove additional contaminated soils. It should be noted, however, that the water table at the time of the work was approximately 13 feet below grade. Therefore, the maximum depth of the excavation was 13 feet. Additionally, confirmation samples were not collected from the bottom of the excavation in areas where the excavation extended to a depth of 13 feet.

The final limits of the excavation at Areas O and S are shown on Figure 5-7. Approximately 3,100 tons of soil was excavated. The locations of the final confirmation soil samples collected from the excavation are shown on Figure 5-8. The results of the analyses are summarized in Table 5-2. Also shown in Table 5-2 are the approved RRS for soils at the Site. A comparison of the analytical results for the confirmation soil samples to the approved RRS shows that the soils that remained in place following the excavation of Areas O and S were compliant with the approved RRS.

Details concerning the excavation activities conducted in Areas O and S, including the laboratory analytical reports for the confirmation samples, was provided to GAEPD in *Soil Corrective Action Completion and Certification Report* dated July 15, 2014. The report concluded that the soils that remained in place in Areas O and S following the completion of the excavation were compliant with the approved RRS. GAEPD concurred with this conclusion in a letter dated November 17, 2014.

6.0 EVALUATION OF POST-REMEDIATION SOIL CONDITIONS

6.1 CONFIRMATION SAMPLING

The Site remediation activities described in Section 5 were conducted between 2005 and 2014. Details concerning the remediation of Areas B, L, and P were provided to GAEPD by way of Annual Corrective Action Effectiveness Reports. In addition to providing details concerning the remedial actions taken, the reports provided details concerning the confirmation soil sampling and analyses that were conducted to evaluation the effectiveness of the remediation. A comparison of confirmation soil sample data to the approved RRS was presented in each report.

Details concerning the excavation and confirmation sampling conducted to remediate soils in Areas O and S were provided in the *Soil Corrective Action and Certification Report* dated July 15, 2014. A comparison of confirmation soil sample data to the approved RRS was presented in the report.

6.2 RISK REDUCTION STANDARDS

Soil RRS for the Site were first submitted to GAEPD in the October 2004 CAP. GAEPD issued comments concerning the CAP and RRS in a correspondence dated February 2, 2005. Revisions to the RRS were made to address GAEPD comments and were re-submitted to the agency in a correspondence dated March 25, 2005. GAEPD approved the revised RRS by way of a correspondence dated May 12, 2005.

Additional regulated substances were detected at the Site subsequent to the submittal of the March 25, 2005 correspondence. RRS for these additional regulated substances were submitted to GAEPD in a correspondence dated July 25, 2005. GAEPD provided comments concerning these RRS in a correspondence dated November 28, 2006. ERM accepted the comments in a correspondence dated December 18, 2006. The approved RRS for soil are shown in Table 1-1.

6.3 COMPLIANCE WITH RISK REDUCTION STANDARDS

6.3.1 Area B

As discussed in Section 5, soils in Area B were remediated using a combination of heat-catalyzed persulfate injections and excavation.

Confirmation sample locations are shown on Figures 5-1 and 5-3. Confirmation sample analytical results are shown in Table 5-1. Laboratory reports for the Area B confirmation samples were provided to GAEPD in the *First, Second, and Fifth Annual Reports on Effectiveness of Corrective Action* dated September 2006, October 2007, and February 2011, respectively. The analytical results show the soils in Area B were compliant with the approved RRS subsequent to the completion of the remediation.

GAEPD concurred that the soil in Area B were compliant with the approved RRS in a letter dated March 10, 2011.

6.3.2 Area L

As discussed in Section 5, soils in Area L were remediated using heat-catalyzed persulfate injections. Confirmation sample locations are shown on Figure 5-4. Analytical data for the sample are also shown on Figure 5-4. Copies of laboratory reports for the Area L confirmation samples were submitted to GAEPD in the *First and Second Annual Reports on Effectiveness of Corrective Action* dated September 2006 and October 2007, respectively. The analytical results show the soils in Area L were compliant with the approved RRS subsequent to the completion of the remediation.

6.3.3 Area P

As described in Section 5, soils in Area P were remediated using two rounds of heat-catalyzed persulfate injections. Confirmation soil samples were collected following the injection events at the locations shown on Figure 5-5. The results of the analyses conducted on the confirmation samples are also shown on Figure 5-5. The results show that the soils at Area P are compliant with the approved RRS. Copies of the laboratory reports for the analyses were provided to GAEPD in the *First Annual Report on Effectiveness of Corrective Action* dated September 2006.

6.3.4 Areas O and S

As described in Section 5, remediation of soils in Areas O and S was completed by excavation in 2013 and 2014. The final limits of the excavation at Areas O and S are shown on Figure 5-7. The locations of the final confirmation soil samples collected from the excavation are shown on Figure 5-8. The results of the analyses are summarized in Table 5-2. Copies of the laboratory analytical reports for the Areas O and S confirmation samples that were collected following completion of the excavation were provided to GAEPD in *Soil Corrective Action Completion*

and Certification Report dated July 15, 2014. A comparison of the analytical results for the confirmation soil samples to the approved RRS shows that the soils that remained in place following the excavation of Areas O and S were compliant with the approved RRS.

GAEPD concurred that the soil in Areas O and S were compliant with the approved RRS in a letter dated November 17, 2014.

6.4 SOIL COMPLIANCE CERTIFICATION REPORT

A *Soil Compliance Certification Report* for the Site dated September 15, 2015 was prepared by One Consulting Group, Inc. on behalf of the former Site owner, English Asset Holding LLC. The purpose of the report was to provide a comprehensive document to GAEPD's Brownfields Program to review and evaluate whether or not the soils at the Site are compliant with the approved RRS. The report was prepared utilizing soil laboratory analytical data collected from the Site dating back to 1995, including the post-remediation confirmation sampling/analytical data from the remediation efforts discussed above. In a letter dated October 13, 2015, GAEPD stated that based on a review of the report the agency concurred with the conclusion that the soils at the Site are compliant with the established Type 1/2 RRS.

7.0 DESCRIPTION OF SITE AND RESPONSIBLE PARTIES

This section of the VCSR provides a description of all properties that are part of the Site including the address and location of such property, its legal description, and the property owner's name, address, and telephone number. It also provides information concerning any other person who may be a responsible party for the Site.

7.1 SITE INFORMATION

The Site address is as follows:

1429 Fairmont Avenue
Atlanta, Fulton County, Georgia 30318

The legal description for the Site (Tax Parcel Number 17-0188-0002-017-0) is provided in Appendix A. The property owner's name, address, and telephone number are as follows:

Fairmont Flats, LLC
1819 Peachtree Road, NE
Suite 275
Atlanta, Georgia 30309
404/419-9400

No other properties are included in the Site at this time.

7.2 PARTIES RESPONSIBLE FOR THE SITE

The parties responsible for the Site currently include:

I.S. Liquidation, LLC
13048 Knaus Road
Oswego, Oregon 97034
770/312-1035

No other parties responsible for the releases at the Site have been identified at this time.

8.0 PUBLIC NOTICE

Within seven days of submitted this VCSR to GAEPD, a Public Notice will be published in the Fulton County Daily Report and the Atlanta Journal Constitution. The Public Notice will indicate that the public may submit comments concerning the VCSR to GAEPD within 30 days. A notice of the VCSR availability for review will also be sent to Richard Anderson, Fulton County Manager, and Kasim Reed, Mayor of Atlanta.

9.0 CONTINUING ACTIONS TO MAINTAIN COMPLIANCE WITH RISK REDUCTION STANDARDS

No additional measures to ensure Site compliance with the approved RRS for soils are necessary or warranted. However, to ensure the ground water pathway is not completed, a Uniform Environmental Covenant that prohibits the use of ground water at the Site for non-remedial use will be placed on the deed to the property. The UEC will also place certain restrictions on ground disturbance (e.g., excavation, trenching, etc.) in proximity to the location of the free phase liquid product. A draft of the UEC is included in Appendix D.

10.0 REFERENCES

1. Corrective Action Plan, ERM, October 2004.

2. First Annual Report on Effectiveness of Corrective Action, ERM, September 2006.

3. Second Annual Report on Effectiveness of Corrective Action, ERM, October 2007.

4. Third Annual Report on Effectiveness of Corrective Action, ERM, October 2008.

5. Fourth Annual Report on Effectiveness of Corrective Action, ERM, February 2010.

6. Fifth Annual Report on Effectiveness of Corrective Action, ERM, February 2011.

7. Soil Corrective Action Completion and Certification Report, ERM, July 15, 2014.

8. Soil Compliance Certification Report, One Consulting Group, September 14, 2015.

9. Vapor Intrusion Assessment Report, ERM, August 3, 2016 (provided in Appendix C).

10. Free Product Monitoring/Recovery and Surface Water Protection Report, ERM, February 9, 2017 (provided in Appendix B).

Tables

July 27, 2017
Project No. 0121021
Former I. Schneid Facility

Table 1-1
Chemicals of Interest and Approved Risk Reduction Standards for Soil
Former I. Schneid Facility
HSI Site No. 10753
Atlanta, Fulton County, Georgia

Chemical	Method	RRS		GAEPD Approved
		Type	(µg/kg)	
Volatile Organic Compounds				
1,1,1-TCA	SW8260	2	49,790	05/12/05
1,1,2,2-PCA	SW8260	2	371	05/12/05
1,1-Dichloroethane	SW8260	1	312,800	05/12/05
1,1-Dichloroethene	SW8260	2	3,041	05/12/05
1,2-Dichloroethane	SW8260	1	500	11/28/06
1,2-Dichlorobenzene	SW8270	2	150,564	05/12/05
1,2,4-Trichlorobenzene	SW8270	2	50,130	05/12/05
1,3-Dichlorobenzene	SW8270	2	82,930	05/12/05
1,4-Dichlorobenzene	SW8270	2	18,823	05/12/05
2-Butanone (MEK)	SW8260	1	200,000	11/28/06
4-Methyl-2-pentanone (MIBK)	SW8260	NC	3,300	
Acetone	SW8260	1	297,500	05/12/05
Benzene	SW8260	1	500	05/12/05
Carbon disulfide	SW8260	1	182,500	05/12/05
Carbon tetrachloride	SW8260	1	500	11/28/06
Chlorobenzene	SW8260	1	10,000	05/12/05
Chloroethane	SW8260	2	619	05/12/05
Chloroform	SW8260	1	3,727	05/12/05
cis-1,2-Dichloroethene (DCE)	SW8260	1	530	11/28/06
Dibromochloromethane	SW8260	1	10,000	11/28/06
Ethylbenzene	SW8260	2	104,844	05/12/05
Isopropylbenzene	SW8260	1	21,880	05/12/05
Methylene chloride	SW8260	1	500	05/12/05
Naphthalene	SW8260	1	63,388	05/12/05
Styrene	SW8260	1	14,000	11/28/06
Tetrachloroethene (PCE)	SW8260	1	500	11/28/06
Toluene	SW8260	1	100,000	05/12/05
Trichloroethene (TCE)	SW8260	1	500	05/12/05
Xylenes (total)	SW8260	1/2	229,674	05/12/05
Vinyl chloride	SW8260	1	200	11/28/06
Semi-Volatile Organic Compounds				
2,4-Dichlorophenol	SW8270	1	2,000	05/12/05
2-Chlorophenol	SW8270	2	6,529	05/12/05
Acenaphthene	SW8270	2	3,692,000	05/12/05
Bis(2-ethylhexyl)phthalate	SW8270	2	800,400	05/12/05
Fluoranthene	SW8270	2	3,070,000	05/12/05
Fluorene	SW8270	2	2,805,000	05/12/05
Pentachlorophenol	SW8270	1	3,300	05/12/05
Phenanthrene	SW8270	2	3,042,000	05/12/05
2,4-Dimethylphenol	SW8270	1	70,000	11/28/06
2,6-Dinitrotoluene	SW8270	1	760	11/28/06
2-Methylphenol	SW8270	NC	3,800	
4-Methylphenol	SW8270	NC	3,800	
N-Nitrosodi-n-propylamine	SW8270	1	1,700	11/28/06

Table 1-1
Chemicals of Interest and Approved Risk Reduction Standards for Soil
Former I. Schneid Facility
HSI Site No. 10753
Atlanta, Fulton County, Georgia

Chemical	Method	RRS		GAEPD Approved
		Type	(µg/kg)	
Phenol	SW8270	1	400,000	11/28/06
m&p-Methylphenol	SW8270		0	
Metals				
Arsenic	SW6010	1	20,000	11/28/06
Barium	SW6010	1	1,000,000	11/28/06
Cadmium	SW6010	1	2,000	11/28/06
Chromium	SW6010	1	100,000	11/28/06
Lead	SW6010	1	75,000	11/28/06
Mercury	SW6010	1	500	11/28/06
Selenium	SW6010	1	2,000	11/28/06
Chlorinated Herbicides				
2,4,5-TP (Silvex)	SW8151	1	10,000	05/12/05
Chlordane	SW8151	2	25,490	05/12/05
2,4-D	SW8151	1	7,000	05/12/05
Chlorinated Pesticides				
4,4-DDE	SW8081	NC	660	
4,4-DDT	SW8081	NC	660	
Heptachlor Epoxide	SW8081	1	1,600	11/28/06

Notes:

NC: Notification Concentration

Table 4-1
Ground Water Quality Data (µg/L)
Former I. Schneid Facility
HSI Site 10753
Atlanta, Fulton County, Georgia

Well ID	Date Installed	Date Sampled	Compounds Detected (µg/L)																									
			Acetone	Benzene	Chlorobenzene	cis-1,2-Dichloroethene	1,4-Dichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,1-Dichloroethane	1,1-Dichloroethene	1,4 Dioxane	Ethylbenzene	Isopropylbenzene	Naphthalene	1,1,1-Trichloroethane	Trichloroethene	Tetrachloroethene	Methyl tert -butyl ether	Methylene Chloride	Toluene	Xylenes	Vinyl Choride	2,4-D	Acenaphthene	Dibenzofuran	Pentachlorophenol	2,4-Dichlorophenol
		RRS (Type)	***1***	***2***	***1***	***2***	***1***	***1***	***1***	***1***	***2***	***1***	***1***	***2***	***1***	***2***	***1***	***1***	***1***	***2***	***1***	***1***	***1***	***1***		***2***	***1***
		Applicable RRS	***4,000***	***5.50***	***100***	***31***	***75***	***600***	***600***	***4,000***	***103***	***0***	***700***	***200***	***20***	***1,011***	***5***	***5***	***0***	***55***	***1,000***	***10,000***	***2***	***70***	***2,000***		***1***	***20***
ET-MW-4	5/2/2002	Jun-05	<25	**25.60**	**10,100**	< 1	**142**	341	11.6	< 1	< 1	NA	21	6.6	12.5	< 1	<1	<1	NA	<2.5	5.3	10.7		<25	<10	<10	<10	<10
		Mar-07		< 5	< 5	< 5	< 10	< 10		< 5	< 5	NA	NA	< 5	NS	< 5	NA	NA	NA					NA			NA	NA
		Nov-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Mar-09	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}		NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}
		Jun-09	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}		NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}
		Sep-09	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}		NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}
		Dec-09	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}		NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}
		Dec-10	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}		NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}
		Jul-11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Jul-12	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		May-14	<50	< 5	**1200**	NA	16	180	<5	< 5	< 5	NA	< 5	< 5	< 5	< 5	< 5	NA	NA	<5	<5	<5		NA	<10	NA	<25	<10
		Oct-14	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}		NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}
		Mar-15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Aug-15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Dec-15	<50	<5	**1300**	<5	21	160	<5	<5	<5	NA	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5		<2	<10	<10	<25	<25
ET-MW-5	5/2/2002	Jun-05	<25	< 1	< 1	< 1	<1	<1	<1	< 1	< 1	NA	<1	< 1	<5	< 1	<1	<1	NA	<2.5	<1	<1		<5	<11.1	<11.1	<11.1	<11.1
		Mar-07		< 5	< 5	< 5	< 5	< 5		< 5	< 5	NA	NA	< 5	NA	< 5	NA	NA	NA					NA			NA	NA
		Nov-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Mar-09	<50	< 5	< 5	< 5	< 5	< 5	<5	9.7	< 5	NA	<5	< 5	<5	< 5	<5	<5	NA	<5	<5	<5		NA	NA	NA	NA	NA
		Jun-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Sep-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Dec-09	<50	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	<150	<5	< 5	NA	< 5	< 5	< 5	< 5	< 5	< 5	< 5		NA	NA	NA	NA	NA
		Dec-10	<50	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	<150	<5	< 5	<5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		NA	NA	NA	NA	NA
		Jul-11	<50	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	< 150	< 5	< 5	< 5	< 5	< 5	< 5	<5	<5	<5	<5		NA	NA	NA	NA	NA
		Jul-12	<50	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	< 150	< 5	< 5	< 5	< 5	< 5	< 5	<5	<5	<5	<5		NA	NA	NA	NA	NA
		May-14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Oct-14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Mar-15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Aug-15	<50	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	< 150	< 5	< 5	< 5	< 5	< 5	< 5	<5	<5	<5	<5		NA	NA	NA	NA	NA
ET-MW-6	10/28/2002	Jun-05	<25	< 1	< 1	< 1	<1	<1	<1	< 1	< 1	NA	<1	< 1	<5	< 1	<1	<1	NA	<2.5	<1	<1		<5	<10	<10	<10	<10
		Mar-07		< 5	< 5	< 5	< 5	< 5		< 5	< 5	NA	NA	< 5	NA	< 5	NA	NA	NA					NA			NA	NA
		Nov-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Mar-09	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}		NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}
		Jun-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Sep-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Dec-09	<50	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	<150	<5	< 5	NA	< 5	< 5	< 5	< 5	< 5	< 5	< 5		NA	NA	NA	NA	NA
		Dec-10	<50	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	<150	<5	< 5	<5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		NA	NA	NA	NA	NA
		Jul-11	<50	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	< 150	< 5	< 5	< 5	< 5	< 5	< 5	<5	<5	<5	<5		NA	NA	NA	NA	NA
		Jul-12	<50	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	< 150	< 5	< 5	< 5	< 5	< 5	< 5	<5	<5	<5	<5		NA	NA	NA	NA	NA
		May-14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Oct-14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Mar-15	<50	< 5	33	NA	< 5	17	<5	< 5	< 5	NA	< 5	< 5	9.3	< 5	< 5	NA	NA	<5	<5	<5		NA	<10	NA	< 25	< 10
		Aug-15	<50	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	< 150	< 5	< 5	< 5	< 5	< 5	< 5	< 5	<5	<5	<5		NA	NA	NA	NA	NA
ET-MW-8	10/24/2002	Jun-05	<25	**63**	2	3	6	57	1	38	13	NA	21	16	**167**	< 1	4	<1	NA	<2.5	4	30		<100	11	<10	<10	<10
		Mar-07		**38**	< 5	< 5	< 5	29		36	7	NA	NA	7	NA	< 5	NA	NA	NA					NA			NA	NA
		Nov-08	<50	**14**	< 5	< 5	< 5	27	<5	100	25	NA	<5	6	<5	< 5	<5	<5	<5	NA	<5	<5	<5		NA	NA	NA	NA	NA
		Mar-09	<50	< 5	< 5	< 5	< 5	7	<5	130	19	NA	<5	< 5	<5	< 5	<5	<5	<5	NA	<5	<5	<5		NA	NA	NA	NA	NA
		Jun-09	<50	< 5	< 5	< 5	< 5	11	<5	54	< 5	<150	<5	< 5	NA	< 5	< 5	< 5	< 5	< 5	< 5	<10		NA	NA	NA	NA	NA
		Sep-09	<50	**7**	< 5	< 5	8	55	<5	130	14	<150	<5	< 5	NA	< 5	< 5	< 5	< 5	< 5	< 5	< 5		NA	NA	NA	NA	NA
		Dec-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Dec-10	<50	< 5	< 5	< 5	7	54	<5	78	< 5	<150	<5	< 5	5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		NA	NA	NA	NA	NA
		Jul-11	<50	< 5	< 5	< 5	< 5	18	<5	39	< 5	<150	<5	< 5	<5	< 5	<5	<5	<5	<5	<5	<5		NA	NA	NA	NA	NA
		Jul-12	<50	< 5	< 5	< 5	13	86	<5	70	< 5	<150	<5	< 5	<5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		NA	NA	NA	NA	NA
		May-14	<50	< 5	< 5	NA	9	78	<5	35	< 5	NA	<5	< 5	<5	< 5	<5	NA	NA	<5	<5	<5		NA	<10	NA	<25	<10
		Oct-14	<50	<5	<5	NA	<5	39	<5	19	<5	NA	<5	<5	<5	<5	<5	NA	NA	<5	<5	<5		NA	<10	NA	<25	<10
		Mar-15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Aug-15	<50	<5	<5	<5	10	92	<5	28	<5	<150	<5.0	<5.0	5	<5.0	<5.0	<5.0	<5.0	<5	<5	<5		NA	NA	NA	NA	NA

Table 4-1
Ground Water Quality Data (µg/L)
Former I. Schneid Facility
HSI Site 10753
Atlanta, Fulton County, Georgia

Well ID	Date Installed	Date Sampled	Compounds Detected (µg/L)																								
			Acetone	Benzene	Chlorobenzene	cis-1,2-Dichloroethene	1,4-Dichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,1-Dichloroethane	1,1-Dichloroethene	1,4 Dioxane	Ethylbenzene	Isopropylbenzene	Naphthalene	1,1,1-Trichloroethane	Trichloroethene	Tetrachloroethene	Methyl tert -butyl ether	Methylene Chloride	Toluene	Xylenes	Vinyl Choride	2,4-D	Acenaphthene	Dibenzofuran	Pentachlorophenol	2,4-Dichlorophenol
		RRS (Type)	***1***	***2***	***1***	***2***	***1***	***1***	***1***	***1***	***2***	***1***	***1***	***2***	***1***	***2***	***1***	***1***	***1***	***2***	***1***	***1***	***1***	***1***	***1***		***2***	***1***
		Applicable RRS	***4,000***	***5.50***	***100***	***31***	***75***	***600***	***600***	***4,000***	***103***	***0***	***700***	***200***	***20***	***1,011***	***5***	***5***	***0***	***55***	***1,000***	***10,000***	***2***	***70***	***2,000***		***1***	***20***
ET-MW-8D	12/30/2002	Jun-05	<25	< 1	< 1	< 1	<1	<1	<1	< 1	< 1	NA	<1	< 1	<5	< 1	<1	<1	NA	<2.5	<1	<1		<5	<11.1	<11.1	<11.1	<11.1
		Mar-07		< 5	< 5	< 5	< 5	< 5		< 5	< 5	NA	NA	< 5	NA	< 5	NA	NA	NA					NA			NA	NA
		Nov-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Mar-09	<50	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	NA	<5	< 5	<5	< 5	< 5	< 5	NA	< 5	< 5	< 5		NA	NA	NA	NA	NA
		Jun-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Sep-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Dec-09	<50	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	<150	<5	< 5	NA	< 5	< 5	< 5	< 5	< 5	< 5	< 5		NA	NA	NA	NA	NA
		Dec-10	<50	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	<150	<5	< 5	<5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		NA	NA	NA	NA	NA
		Jul-11	<50	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	< 150	< 5	< 5	< 5	< 5	< 5	< 5	< 5	<5	<5	<5		NA	NA	NA	NA	NA
		Jul-12	<50	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	< 150	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		NA	NA	NA	NA	NA
		May-14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Oct-14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Mar-15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Aug-15	<50	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	< 150	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		NA	NA	NA	NA	NA
ET-MW-9	10/24/2002	Jun-05	<25	< 1	< 1	< 1	<10	< 10	<1	< 1	< 1	NA	<1	< 1	<5	< 1	<1	<1	NA	<2.5	<1	<1		<5	<10	<10	<10	<10
		Mar-07		< 5	< 5	< 5	< 5	< 5		< 5	< 5	NA	NA	< 5	NA	< 5	NA	NA	NA					NA			NA	NA
		Nov-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Mar-09	<50	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	NA	<5	< 5	<5	< 5	<5	<5	NA	<5	<5	<5		NA	NA	NA	NA	NA
		Jun-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Sep-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Dec-09	<50	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	<150	<5	< 5	NA	< 5	< 5	< 5	< 5	< 5	< 5	< 5		NA	NA	NA	NA	NA
		Dec-10	<50	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	<150	<5	< 5	<5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		NA	NA	NA	NA	NA
		Jul-11	<50	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	< 150	< 5	< 5	< 5	< 5	< 5	<5	<5	<5	<5	<5		NA	NA	NA	NA	NA
		Jul-12	<50	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	< 150	< 5	< 5	< 5	< 5	< 5	<5	<5	<5	<5	<5		NA	NA	NA	NA	NA
		May-14	<50	< 5	< 5	NA	< 5	< 5	<5	< 5	< 5	NA	< 5	< 5	< 5	< 5	<5	NA	NA	<5	<5	<5		NA	<10	NA	<25	<10
		Oct-14	<50	<5	<5	NA	<5	<5	<5	<5	<5	NA	<5	<5	<5	<5	<5	NA	NA	<5	<5	<5		NA	<10	NA	<25	<10
		Mar-15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Aug-15	<50	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	< 150	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		NA	NA	NA	NA	NA
ET-MW-10	12/23/2002	Jun-05	<25	2.50	< 1	< 1	<1	<1	<1	< 1	< 1	NA	<1	< 1	<5	< 1	<1	<1	NA	<2.5	<1	<1		<5	<10	<10	<10	<10
		Mar-07		**24.00**	< 5	< 5	< 5	< 5		< 5	< 5	NA	NA	< 5	NA	< 5	NA	NA	NA					NA			NA	NA
		Nov-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Mar-09	<50	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	NA	<5	< 5	<5	< 5	<5	<5	NA	<5	<5	<5		NA	NA	NA	NA	NA
		Jun-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Sep-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Dec-09	<50	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	<150	<5	< 5	NA	< 5	< 5	< 5	< 5	< 5	< 5	< 5		NA	NA	NA	NA	NA
		Dec-10	<50	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	<150	<5	< 5	<5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		NA	NA	NA	NA	NA
		Jul-11	<50	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	< 150	< 5	< 5	< 5	< 5	< 5	< 5	<5	<5	<5	<5		NA	NA	NA	NA	NA
		Jul-12	<50	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	< 150	< 5	< 5	< 5	< 5	< 5	< 5	<5	<5	<5	<5		NA	NA	NA	NA	NA
		May-14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Oct-14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Mar-15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Aug-15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Dec-15	<50	<5	<5	<5	<5	<5	<5	<5	<5	NA	<5	<5	NA	<5	<5	<5	<5	<5	<5	<5		NA	NA	NA	NA	NA
ET-MW-11	12/27/2002	Jun-05	<25	**46**	29	3	**98**	260	25	47	30	NA	635	53	**1,010**	77	**10**	<1	NA	17	141	2,670		<100	51	22	<10	<10
		Mar-07		< 5	< 5	< 5	< 10	65		< 5	< 5	NA	NA	< 5	NA	< 5	NA	NA	NA					NA			NA	NA
		Nov-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Mar-09	<50	< 5	< 5	< 5	< 10	< 10	<10	< 5	< 5	NA	<5	< 5	<10	< 5	<5	<5	NA	<5	<5	<5		<2	<10	<10	<1	<10
		Jun-09	<50	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	<150	<5	< 5	NA	< 5	>5	<5	<5	<5	<5	<10		NA	NA	NA	NA	NA
		Sep-09	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}		NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}
		Dec-09	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}		NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}
		Dec-10	<50	< 5	< 5	< 5	< 5	5	<5	< 5	< 5	<150	<5	< 5	6	< 5	< 5	< 5	< 5	< 5	< 5	< 5		NA	NA	NA	NA	NA
		Jul-11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Jul-12	<50	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	< 150	< 5	< 5	< 5	< 5	< 5	< 5	<5	<5	<5	<5		<2	<10	<10	<25	<10
		May-14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Oct-14	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}		NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}
		Mar-15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Aug-15	<50	< 5	5	< 5	< 5	8	<5	14	< 5	< 150	< 5	< 5	9	< 5	< 5	< 5	< 5	<5	<5	6		7	<10	<10	< 25	< 10

Table 4-1
Ground Water Quality Data (µg/L)
Former I. Schneid Facility
HSI Site 10753
Atlanta, Fulton County, Georgia

Well ID	Date Installed	Date Sampled	Compounds Detected (µg/L)																									
			Acetone	Benzene	Chlorobenzene	cis-1,2-Dichloroethene	1,4-Dichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,1-Dichloroethane	1,1-Dichloroethene	1,4 Dioxane	Ethylbenzene	Isopropylbenzene	Naphthalene	1,1,1-Trichloroethane	Trichloroethene	Tetrachloroethene	Methyl tert -butyl ether	Methylene Chloride	Toluene	Xylenes	Vinyl Choride	2,4-D	Acenaphthene	Dibenzofuran	Pentachlorophenol	2,4-Dichlorophenol
		RRS (Type)	***1***	***2***	***1***	***2***	***1***	***1***	***1***	***1***	***2***	***1***	***1***	***2***	***1***	***2***	***1***	***1***	***1***	***2***	***1***	***1***	***1***	***1***		***2***	***1***
		Applicable RRS	***4,000***	***5.50***	***100***	***31***	***75***	***600***	***600***	***4,000***	***103***	***0***	***700***	***200***	***20***	***1,011***	***5***	***5***	***0***	***55***	***1,000***	***10,000***	***2***	***70***	***2,000***		***1***	***20***
ET-MW-12	12/23/2002	Jun-05	<25	< 1	< 1	< 1	<1	<1	<1	< 1	< 1	NA	<1	< 1	<5	< 1	<1	<1	<2.5	<1	<1	<1		<5	<10	<10	<10	<10
		Mar-07		< 5	< 5	< 5	< 5	< 5		< 5	< 5	NA	NA	< 5	NA	< 5	NA	NA	NA					NA			NA	NA
		Nov-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Mar-09	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}		NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}
		Jun-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Sep-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Dec-09	<50	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	<150	<5	< 5	NA	< 5	< 5	< 5	< 5	< 5	< 5	< 5		NA	NA	NA	NA	NA
		Dec-10	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}		NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}
		Jul-11	<50	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	< 150	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		NA	NA	NA	NA	NA
		Jul-12	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		May-14	<50	< 5	< 5	NA	< 5	< 5	<5	< 5	< 5	NA	< 5	< 5	< 5	< 5	< 5	NA	NA	<5	<5	<5		NA	<10	NA	<25	<10
		Oct-14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Mar-15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Aug-15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Dec-15	<50	<5	<5	<5	<5	<5	<5	<5	<5	NA	<5	<5	NA	<5	<5	<5	<5	<5	<5	<5		NA	NA	NA	NA	NA
ET-MW-13	12/27/2002	Jun-05	<25	< 1	< 1	< 1	<1	<1	<1	< 1	< 1	NA	<1	< 1	<5	< 1	<1	<1	NA	<2.5	<1	<1		<5	<10	<10	<10	<10
		Mar-07		< 5	< 5	< 5	< 5	< 5		< 5	< 5	NA	NA	< 5	NA	< 5	NA	NA	NA					NA			NA	NA
		Nov-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Mar-09	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}		NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}
		Jun-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Sep-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Dec-09	<50	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	<150	<5	< 5	NA	< 5	<5	<5	<5	<5	<5	<5		NA	NA	NA	NA	NA
		Dec-10	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}		NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}
		Jul-11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Jul-12	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		May-14	<50	< 5	< 5	NA	< 5	< 5	<5	< 5	< 5	NA	< 5	< 5	< 5	< 5	< 5	NA	NA	<5	<5	<5		NA	<10	NA	<25	<10
		Oct-14	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}		NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}
		Mar-15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Aug-15	<50	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	< 150	< 5	< 5	< 5	< 5	< 5	< 5	< 5	<5	<5	<5		NA	NA	NA	NA	NA
MW-15	6/7/2005	Jun-05	<25	< 1	**163**	< 1	< 1	11	<1	< 1	< 1	NA	2	< 1	17	< 1	<1	<1	NA	<2.5	1	7		NA	NA	NA	NA	NA
		Mar-07	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Nov-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Mar-09	<50	5	**1,300**	< 5	12	29	<5	< 5	< 5	NA	<5	< 5	<5	< 5	< 5	< 5	NA	< 5	<5	<5		NA	NA	NA	NA	NA
		Jun-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Sep-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Dec-09	<50	< 5	**140**	< 5	< 5	9	<5	< 5	< 5	<150	<5	< 5	NA	< 5	< 5	< 5	< 5	< 5	< 5	< 5		NA	NA	NA	NA	NA
		Dec-10	<50	< 5	32	< 5	< 5	< 5	<5	< 5	< 5	<150	<5	< 5	12	< 5	<5	<5	<5	<5	<5	<5		NA	NA	NA	NA	NA
		Jul-11	<50	< 5	34	< 5	< 5	< 5	<5	< 5	< 5	< 150	< 5	< 5	< 5	< 5	< 5	< 5	<5	<5	<5	<5		NA	NA	NA	NA	NA
		Jul-12	<50	< 5	13	< 5	< 5	< 5	<5	23	< 5	< 150	< 5	< 5	< 5	< 5	< 5	< 5	<5	<5	<5	<5		NA	NA	NA	NA	NA
		May-14	<50	< 5	22	NA	< 5	11	<5	< 5	< 5	NA	< 5	<5	< 5	< 5	< 5	NA	NA	<5	<5	<5		NA	<10	NA	<25	<10
		Oct-14	<50	<5	<5	NA	<5	<5	<0.005	<5	<5	NA	<5	<5	<5	<5	<5	NA	NA	<0.005	<0.005	<0.005		NA	<10	NA	<25	<10
		Mar-15	<50	< 5	< 5	NA	< 5	< 5	<5	< 5	< 5	NA	< 5	< 5	< 5	< 5	< 5	< 5	NA	NA	<5	<5	<5		NA	<10	NA	< 25	< 10
		Aug-15	<50	< 5	18	< 5	< 5	18	<5	< 5	< 5	< 150	< 5	< 5	< 5	< 5	< 5	< 5	< 5	<5	<5	<5		NA	NA	NA	NA	NA
MW-17	3/13/2015	Mar-15	150	5	19	NA	< 5	66	<5	67	11	NA	36	13	**130**	25	< 5	NA	NA	6	82	290		NA	<10	NA	< 25	< 10
		Aug-15	62	**5.6**	32	< 5	5.1	150	<5	54	14	< 150	53	16	**200**	47	< 5	< 5	< 5	<5	94	390		NA	NA	NA	NA	NA
MW-18	3/13/2015	Mar-15	<50	< 5	9.6	NA	< 5	< 5	<5	< 5	< 5	NA	< 5	< 5	< 5	< 5	< 5	NA	NA	<5	<5	<5		NA	<10	NA	< 25	< 10
		Aug-15	<50	< 5	12	< 5	< 5	15	<5	< 5	<5	< 150	< 5	< 5	5.2	< 5	< 5	< 5	< 5	<5	<5	<5		50	<10	<10	< 25	< 10
		Aug-15 DUP-01	<50	< 5	13	< 5	< 5	16	<5	< 5	< 5	< 150	< 5	< 5	5.3	< 5	< 5	< 5	< 5	<5	<5	<5		57	<10	<10	< 25	< 10
MW-19	3/13/2015	Mar-15	<50	< 5	84	NA	19	140	<5	21	< 5	NA	59	7.7	**180**	< 5	< 5	NA	NA	<5	<5	330		NA	13	NA	**26**	< 10
		Mar-15 DUP-01	<50	<5	85	NA	19	140	<5	21	<5	NA	60	8.1	**180**	<5	<5	NA	NA	<5	<5	340		NA	15	NA	**28**	<10
		Aug-15	<50	< 5	**200**	6.1	71	580	12	21	< 5	< 150	200	25	**900**	< 5	< 5	< 5	< 5	<5	23	1300		19	34	12	**40**	< 10
		Nov-16	<50	<50	89	<5	41	450	7.9	12	<5	NA	90	13	**250**	<5	<5	<5	<5	<5	14	480	<2	NA	21	<10	**46**	<10
MW-20		Nov-16	170	**23**	11	6.7	70	500	16	160	23	NA	160	19	**330**	40	<5	<5	<5	**120**	30	810	**3.9**	NA	38	13	**160**	**1,100**

Highlighted Values Exceed the Approved GW RRS.
NA = Not Analyzed. NS = Not Sampled.

Table 4-2
Free Phase Product Monitoring Summary
Former I. Schneid Facility
HSI Site No. 10753
Atlanta, Fulton County, Georgia

Well	Date	Screened Interval Depth (feet BTOC)	Depth to Free Product (feet BTOC)	Depth to Groundwater (feet BTOC)	Free Product Thickness (feet)
MW-19	3/20/2015	12-22	NP	14.19	0
	8/24/2015	12-22	NP	14.43	0
	12/7/2015	12-22	13.51	13.52	0.01
	12/18/2015	12-22	13.74	13.77	0.03
	12/23/2015	12-22	13.42	13.43	0.01
	12/28/2015	12-22	13.20	13.21	0.01
	1/8/2016	12-22	13.05	13.06	0.01
	2/26/2016	12-22	13.01	13.14	0.13
	3/16/2016	12-22	NP	12.73	0
	6/7/2016	12-22	12.58	12.60	0.02
	6/24/2016	12-22	NP	12.77	0
	8/31/2016	12-22	13.63	13.72	0.09
	9/16/2016	12-22	14.17	14.36	0.19
	10/3/2016	12-22	14.03	14.18	0.15
	10/19/2016	12-22	14.33	14.55	0.22
	11/17/2016	12-22	15.33	15.35	0.02
	12/1/2016	12-22	15.235	15.24	0.005
	12/16/2016	12-22	15.035	15.04	0.005
	1/12/2017	12-22	14.72	14.79	0.07
MW-20	12/7/2015	9-24	NP	12.94	0
	12/18/2015	9-24	NP	12.98	0
	12/23/2015	9-24	12.49	12.50	0.01
	12/28/2015	9-24	12.54	12.55	0.01
	1/8/2016	9-24	NP	12.38	0
	2/26/2016	9-24	trace	12.01	trace
	3/16/2016	9-24	NP	12.02	0
	6/7/2016	9-24	NP	12.75	0
	6/24/2016	9-24	NP	13.23	0
	8/31/2016	9-24	14.23	14.25	0.02
	9/16/2016	9-24	NP	14.68	0
	10/3/2016	9-24	NP	15.52	0
	10/19/2016	9-24	14.92	15.03	0.11
	11/17/2016	9-24	15.47	15.49	0.02
	12/1/2016	9-24	NP	14.96	0.00
	12/16/2016	9-24	14.83	14.83	0.002
	1/12/2017	9-24	NP	14.34	0

Notes:
1. BTOC = Below Top of Casing.
2. NP = Not Present.

Table 5-1
Analytical Results for Area B Excavation Confirmation Soil Samples
Former I. Schneid Facility
HSI Site 10753
Atlanta, Fulton County, Georgia

		WEST SIDEWALL				SOUTH SIDEWALL				EAST SIDEWALL			NORTH SIDEWALL			BASE
Chemical Name	**Approved RRS (ug/kg)**	**West-1.5**	**West-OE1-1.5**	**West-6**	**West-10**	**South-1.5**	**South-6**	**South-OE1-6**	**South-10**	**East-1.5**	**East-6**	**East-10**	**North-1.5**	**North-6**	**North-10**	**Base-12**
Acenaphthene	**3,692,266**	17,000	< 400	< 420	650	< 2000	13,000	< 410	< 400	< 4000	< 440	< 390	< 390	< 400	< 420	< 350
Bis(2-ethylhexyl)phthalate	**800,439**	< 3800	< 400	< 420	< 430	< 2000	920	< 410	< 400	4,200	< 440	< 390	< 390	< 400	< 420	< 350
Diethyl phthalate	**NC**	< 3800	< 400	< 420	< 430	< 2000	3,800	< 410	< 400	< 4000	< 440	< 390	< 390	< 400	< 420	< 350
Di-n-butyl phthalate	**NC**	< 3800	< 400	< 420	< 430	< 2000	1,500	< 410	< 400	< 4000	< 440	< 390	< 390	< 400	< 420	< 350
Fluorene	**2,804,591**	5,900	< 400	< 420	< 430	< 2000	650	< 410	< 400	< 4000	< 440	< 390	< 390	< 400	< 420	< 350
Naphthalene - from 8270 Method	**63,388**	18,000	< 400	< 420	680	3,500	15,000	< 410	1,700	< 4000	< 440	< 390	< 390	< 400	< 420	7,000
Phenanthrene	**2,360,142**	8,600	< 400	< 420	< 430	< 2000	950	< 410	< 400	< 4000	< 440	< 390	< 390	< 400	< 420	< 350
1,1,1-Trichloroethane	**49,790**	< 160	< 3.8	< 3.4	4	< 190	< 180	< 3.9	< 120	11	< 3.2	4.8	< 3	< 3.5	< 3.2	< 3.8
1,1-Dichloroethane	**312,821**	< 160	< 3.8	< 3.4	9	< 190	< 180	4.4	< 120	12	8.9	13	< 3	< 3.5	16	9
1,2,4-Trichlorobenzene	**50,127**	< 160	< 3.8	< 3.4	< 3.1	< 190	6,100	6.2	< 120	31	4.5	< 3	< 3	< 3.5	< 3.2	< 3.8
1,2-Dibromo-3-chloropropane	**NC**	< 160	< 3.8	< 3.4	< 3.1	< 190	< 180	< 3.9	180	< 4.9	< 3.2	< 3	< 3	< 3.5	< 3.2	< 3.8
1,2-Dichlorobenzene	**150,564**	200,000	68	14	100	17,000	140,000	510	6,600	110	390	63	8.8	100	23	7,600
1,3-Dichlorobenzene	**82,931**	4,300	< 3.8	< 3.4	6	1,200	8,100	31	150	47	17	< 3	< 3	4	< 3.2	12
1,4-Dichlorobenzene	**18,823**	23,000	8.4	< 3.4	22	3,300	24,000	94	670	15	71	8.6	< 3	16	3.9	51
Acetone	**297,501**	<3200	< 76	< 68	130	< 3800	< 3600	210	< 2400	< 98	580	< 60	< 61	< 70	< 64	< 76
Bromomethane	**NC**	< 160	< 3.8	< 3.4	7	< 190	< 180	< 3.9	< 120	< 4.9	< 3.2	< 3	< 3	< 3.5	< 3.2	< 3.8
Carbon Disulfide	**182,466**	< 320	< 7.6	< 6.8	< 6.2	< 380	< 360	< 7.8	< 240	27	< 6.4	< 6	< 6.1	< 7	< 6.4	< 7.6
Chlorobenzene	**10,000**	600	< 3.8	< 3.4	4	330	860	28	< 120	< 4.9	16	7.4	< 3	4.9	< 3.2	12
Chloromethane	**NC**	< 320	< 7.6	< 6.8	7	< 380	< 360	< 7.8	< 240	< 9.8	< 6.4	< 6	< 6.1	< 7	< 6.4	< 7.6
Ethylbenzene	**104,844**	1,000	< 3.8	< 3.4	3	300	1,400	29	1,100	< 4.9	11	6.5	< 3	< 3.5	< 3.2	110
Isopropylbenzene	**21,880**	790	< 3.8	< 3.4	< 3.1	< 190	860	8	140	< 4.9	3.3	< 3	< 3	< 3.5	< 3.2	11
Xylenes, total	**229,674**	5,800	< 7.6	< 6.8	20	1,860	12,100	215	5,600	22	93	78	< 6.1	< 7	3.2	4,400
Tetrachloroethene	**500**	< 160	< 3.8	< 3.4	< 3.1	< 190	< 180	< 3.9	< 120	15	< 3.2	< 3	< 3	< 3.5	< 3.2	< 3.8
Toluene	**100,000**	< 160	< 3.8	< 3.4	< 3.1	< 190	< 180	17	< 120	< 4.9	3.8	< 3	< 3	< 3.5	< 3.2	13
Naphthalene - from 8260 Method	**63,388**	24,000	5.3	< 3.4	20	5,500	33,000	120	4,500	< 4.9	91	7	< 3	20	7.2	6,700
COMMENTS ON OVEREXCAVATION		**REMOVED BY EXCAVATION ON 11/22/10**	**RESAMPLE RESULTS FOLLOWING 11/22/10 EXCAVATION**				**REMOVED BY EXCAVATION ON 11/22/10**	**RESAMPLE RESULTS FOLLOWING 11/22/10 EXCAVATION**								

NC = Not Calculated
Value Exceeds Approved RRS

Table 5-2
Analytical Results for Areas O and S Confirmation Soil Samples
Former I. Schneid Facility
HSI Site No. 10753
Atlanta, Fulton County, Georgia

Sample Location	Sample Depth (ft bgs)	Date	Volatile Organic Compounds (Method 8260)										Semivolatile Organic Compounds (Method 8270)						Herbicides (Method 8151)	Metals (Method 6010)
			1,1-Dichloroethene	Methylene chloride	1,1,1-Trichloroethane	Benzene	Trichloroethene	Ethylbenzene	1,1,2,2-Tetrachloroethane	Isopropylbenzene	Naphthalene	Xylenes (total)	1,2-Dichlorobenzene	1,4-Dichlorobenzene	2,4-Dichlorophenol	2-Methylphenol	3,4-Methylphenol	Pentachlorophenol	2,4 D	Selenium
Approved RRS (ug/kg)			**3,041**	**500**	**49,790**	**500**	**500**	**104,844**	**371**	**21,880**	**63,388**	**229,674**	**150,564**	**18,823**	**2,000**	**3,800**	**---**	**3,300**	**7,000**	**2,000**
AREA S - SIDEWALL SAMPLES																				
West Wall 6' North 14'	5	07/02/13	< 4.2	< 17	**10**	< 4.2	< 4.2	**22**	< 4.2	**6.0**	**2,300**	**1,400**	**9,300**	**1,600**	< 380	< 380	< 380	< 2000	---	---
West Sidewall 6' South 7'	6	07/09/13	< 160	< 660	< 160	< 160	< 160	**280**	< 160	< 160	**6,600**	**2,600**	< 390	< 390	< 390	< 390	< 390	< 2000	**6,800**	< 2.27
West 6' South 12'	6	07/16/13	< 4.8	< 19	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	**12**	< 4.8	< 420	< 420	< 420	< 420	< 420	< 2200	---	---
West 12' South 12'	12	07/16/13	< 4.3	< 17	< 4.3	**19**	< 4.3	**19**	< 4.3	**14**	**18**	**13**	< 430	< 430	< 430	< 430	< 430	< 2200	---	---
West Sidewall 3' South 27'	3	07/16/13	< 4.1	< 16	**10**	< 4.1	< 4.1	**5.1**	< 4.1	< 4.1	**1,400**	**40**	< 380	< 380	< 380	< 380	< 380	< 2000	---	---
SW Corner 10'	10	07/02/13	< 4.8	< 19	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	330	< 4.8	< 390	< 390	< 390	< 390	< 390	< 2000	---	---
1-6', 5'	5	07/10/13	---	---	---	---	---	---	---	---	---	---	< 410	<410	< 410	< 410	< 410	< 2100	---	---
2-6', 5'	5	07/10/13	---	---	---	---	---	---	---	---	---	---	< 410	< 410	< 410	< 410	< 410	< 2100	---	---
East Sidewall 9' South 12'	9	07/16/13	< 4.7	< 19	< 4.7	< 4.7	< 4.7	**6.3**	< 4.7	**8.7**	**430**	**22**	< 440	< 440	< 440	< 440	< 440	< 2200	---	---
North Sidewall 9' West 17'	9	07/16/13	< 4.3	< 17	< 4.3	< 4.3	< 4.3	< 4.3	< 4.3	< 4.3	**6.5**	< 4.3	< 420	< 420	< 420	< 420	< 420	< 2100	---	---
5' Inside West 6'	6	07/10/13	< 3.4	< 14	< 3.4	< 3.4	< 3.4	**3.5**	< 3.4	< 3.4	**540**	**1,100**	< 400	< 400	< 400	< 400	< 400	< 2000	---	< 2.0
AREA S - BOTTOM SAMPLES																				
NE	5	07/18/13	< 4.5	< 18	**30**	< 4.5	< 4.5	**230**	< 4.5	**1,000**	**1,500**	**1,900**	< 480	< 480	< 480	< 480	< 480	< 2500	---	---
SW	5	07/18/13	**35**	< 15	**300**	< 3.7	< 3.7	**3,100**	< 3.7	**970**	**37,000**	**22,000**	**1,600**	< 460	< 460	< 460	< 460	< 2400	---	---
AREA O - SIDEWALL SAMPLES																				
East Wall 7' 30'N	7	06/27/13	< 210	< 830	< 210	< 210	< 210	< 210	< 210	< 210	**1,100**	**230**	< 400	<400	< 400	< 400	< 400	< 2100	---	---
East Wall Center 2.5'	2.5	06/27/13	**5.4**	< 18	< 4.4	< 4.4	< 4.4	**12**	< 4.4	**3.4**	**86**	**29**	**210**	< 400	< 400	< 400	< 400	< 2100	---	---
NE Sidewall 5' South 15'	5	06/28/13	< 240	< 950	< 240	< 240	< 240	< 240	< 240	**310**	**3,300**	**750**	< 4100	< 4100	< 4100	< 4100	< 4100	< 21000	---	---
South Sidewall 12' West 0'	12	07/02/13	< 4.2	< 17	< 4.2	< 4.2	< 4.2	**28**	< 4.2	< 4.2	**40**	**17**	< 410	< 410	< 410	< 410	< 410	< 2100	---	---
North Sidewall 5' West 3'	5	07/16/13	< 250	< 1000	< 250	< 250	< 250	< 250	< 250	**400**	< 250	< 250	< 470	< 470	< 470	< 470	< 470	< 2400	---	---
HA-SE-2	5	07/24/13	< 3.1	< 13	< 3.1	< 3.1	< 3.1	< 3.1	< 3.1	< 3.1	**5.6**	< 3.1	< 420	<420	< 420	< 420	< 420	<2200	---	---
SS-03-4ft	4	12/11/13	**15**	< 15	< 3.6	< 3.6	< 3.6	**61**	< 3.6	**5.2**	**1,000**	**220**	**810**	< 410	< 410	< 410	< 410	< 2,100	---	---
SS-04-4ft	4	12/11/13	< 3.4	< 14	< 3.4	< 3.4	< 3.4	**48**	< 3.4	< 3.4	**1,600**	**190**	**580**	< 410	< 410	< 410	< 410	< 2,100	---	---
SS-06-4ft	4	12/11/13	< 4.1	< 17	< 4.1	< 4.1	< 4.1	**120**	< 4.1	**59**	**1,300**	**380**	**4,900**	**660**	< 430	< 430	< 430	< 2,200	---	---
SS-07-4ft	4	12/11/13	< 3.3	< 13	< 3.3	< 3.3	< 3.3	**16**	< 3.3	**7.5**	**2,900**	**43**	< 400	< 400	< 400	< 400	< 400	< 2,100	---	---
HA-SE-10-4.5ft	4.5	04/16/14	< 6.2	< 25	< 6.2	< 6.2	< 6.2	< 6.2	< 6.2	< 6.2	**8.8**	< 6.2	< 420	< 420	< 420	< 420	< 420	< 2,200	---	---
AREA O - BOTTOM SAMPLES																				
Southeast Corner Bottom 11'	11	06/27/13	< 230	< 940	< 230	< 230	< 230	**540**	< 230	**61**	**6,300**	**740**	**1,000**	< 460	< 460	< 460	< 460	< 2400	---	---
Bottom 9' South 20' Pipe	9	06/28/13	< 6	< 24	**65**	< 6	**17**	**120**	< 6	**110**	**3,300**	**2,700**	**1,100**	< 450	< 450	< 450	< 450	< 2300	---	---
SS-02-7ft	7	12/11/13	< 3.2	< 13	< 3.2	< 3.2	< 3.2	**61**	< 3.2	**9.5**	**5,400**	**860**	< 410	< 410	< 410	< 410	< 410	< 2,100	---	---
HA-SE-5	5	08/01/13	< 4.0	< 16	**7.1**	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	**2,400**	**31**	< 460	< 460	< 460	< 460	< 460	< 2,400	---	---
HA-N-11-13ft	13	04/16/14	< 4.4	< 18	< 4.4	< 4.4	< 4.4	< 4.4	< 4.4	< 4.4	< 4.4	< 4.4	< 470	< 470	< 470	< 470	< 470	< 2,400	---	---
FLOOR DRAIN																				
2'	2	07/10/13	< 3.4	< 14	**3.6**	< 3.4	< 3.4	**7.4**	< 3.4	**5.3**	**4,800**	**68**	**6,400**	**680**	< 400	< 400	< 400	< 2100	---	< 2.0
8'	8	07/10/13	< 4.1	< 16	< 4.1	< 4.1	< 4.1	< 4.1	< 4.1	< 4.1	< 4.1	< 4.1	< 400	< 400	<400	< 400	< 400	< 2000	---	< 2.0

Notes:

--- Not Analyzed

NR = Not Regulated by HSRA

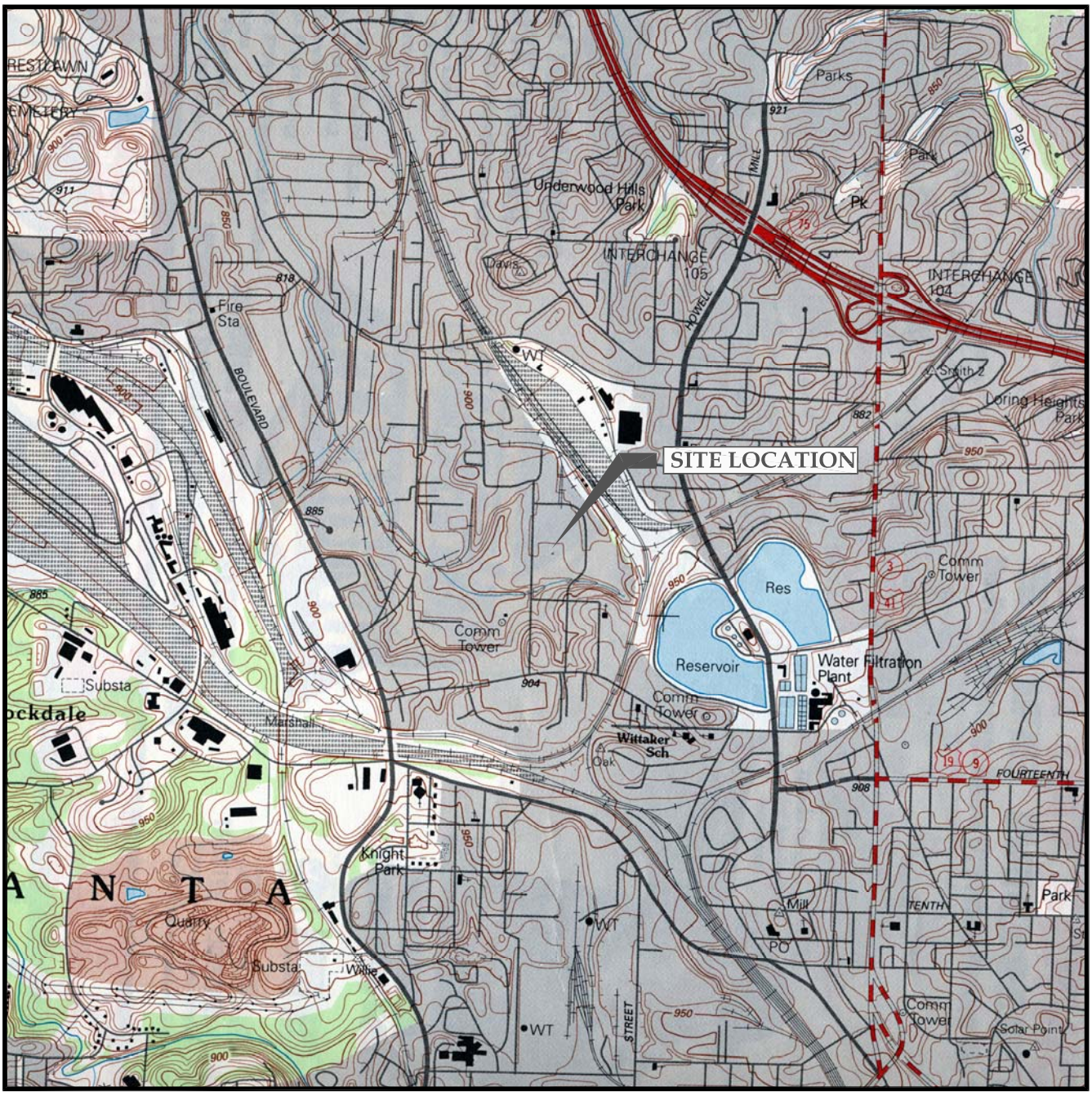
Bold values indicate compound detected above the Reporting Limit

Bold and italic values indicate Reporting Limit above the RRS

Bold and higlighted values indicate compound detected above the RRS

Figures

July 27, 2017
Project No. 0121021
Former I. Schneid Facility



SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC QUADRANGLE: NORTHWEST ATLANTA, GA – 1993

SCALE 1:24000

1 1/2 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

CONTOUR INTERVAL 10 FEET

DOTTED LINES REPRESENT 5–FOOT CONTOURS
NATIONAL GEODETIC VERTICAL DATUM OF 1929

GEORGIA

QUADRANGLE LOCATION

N

ERM Environmental Resources Management

SITE LOCATION MAP

VOLUNTARY COMPLIANCE STATUS REPORT
I. SCHNEID FACILITY
ATLANTA, GEORGIA

FIGURE
2-1

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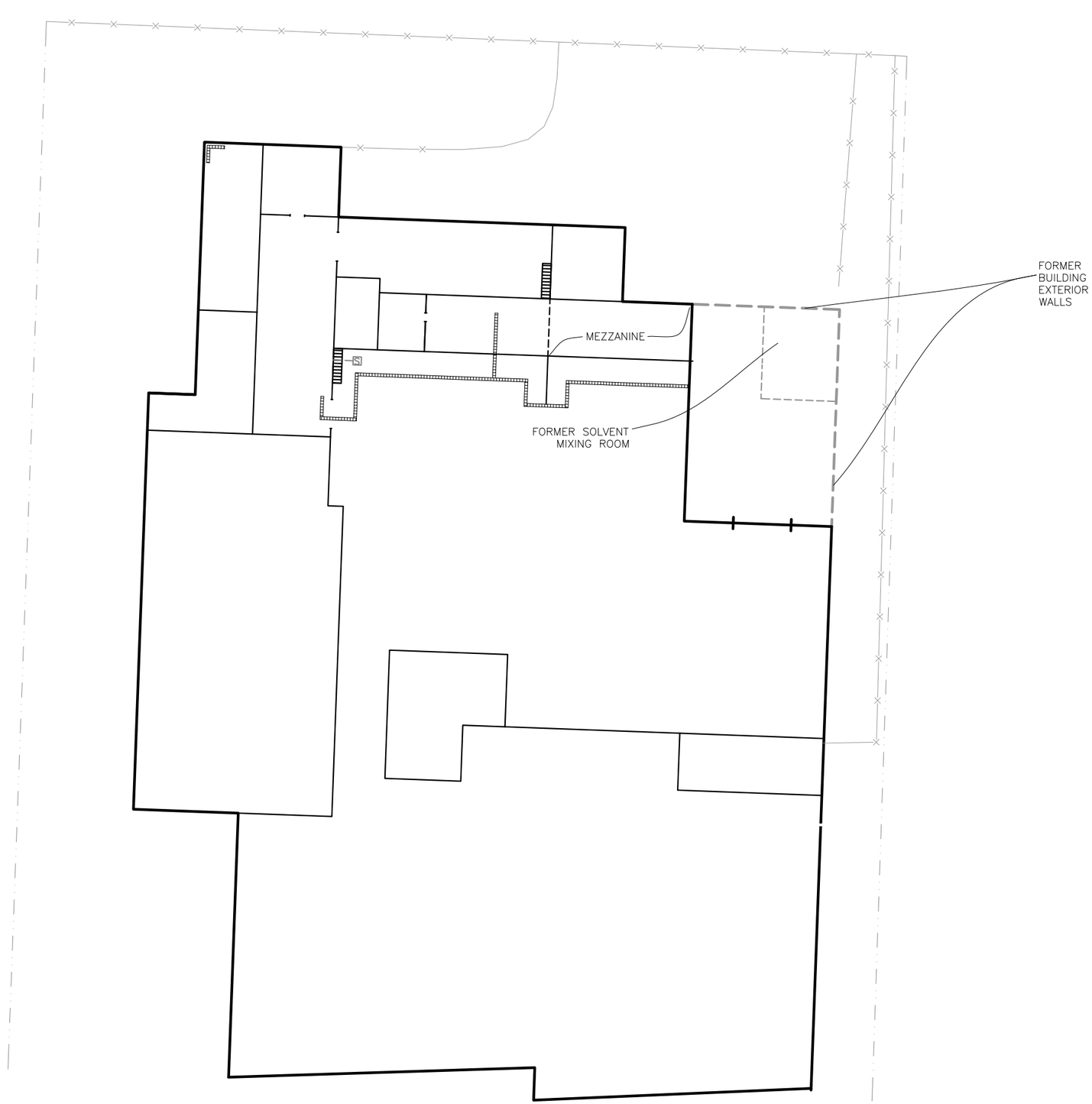


LEGEND

- FLOOR DRAIN
- SUMP
- STAIRS
- FENCE LINE
- PROPERTY LINE

N

0 40 80

SCALE FEET

Environmental Resources Management

FIGURE 2-2
SITE PLAN
VOLUNTARY COMPLIANCE STATUS REPORT
I. SCHNEID FACILITY
ATLANTA, FULTON COUNTY, GEORGIA

DESIGN: SV	DRAWN: SV	CHKD.: BF
DATE: 7/19/2017	SCALE: AS SHOWN	REV.: 0

W.O.NO.: C:\Temp\ISL FIGURES\121021 ISL\2017\07 2017\121021Site1.dwg

ERM

LEGEND

SOIL SAMPLE LOCATION (PRE–CAP)

2005 SOIL DELINEATION SAMPLES (PRE–ISCO)

FLOOR DRAIN

STAIRS

SUMP

FENCE LINE

PROPERTY LINE

SOIL REMEDIATION AREAS

RED SAMPLE POINT EXCEEDS RRS

GREEN SAMPLE POINT BELOW RRS

HIGHLIGHTED DATA EXCEEDS RRS

NOTES:

ALL CONCENTRATIONS IN mg/Kg

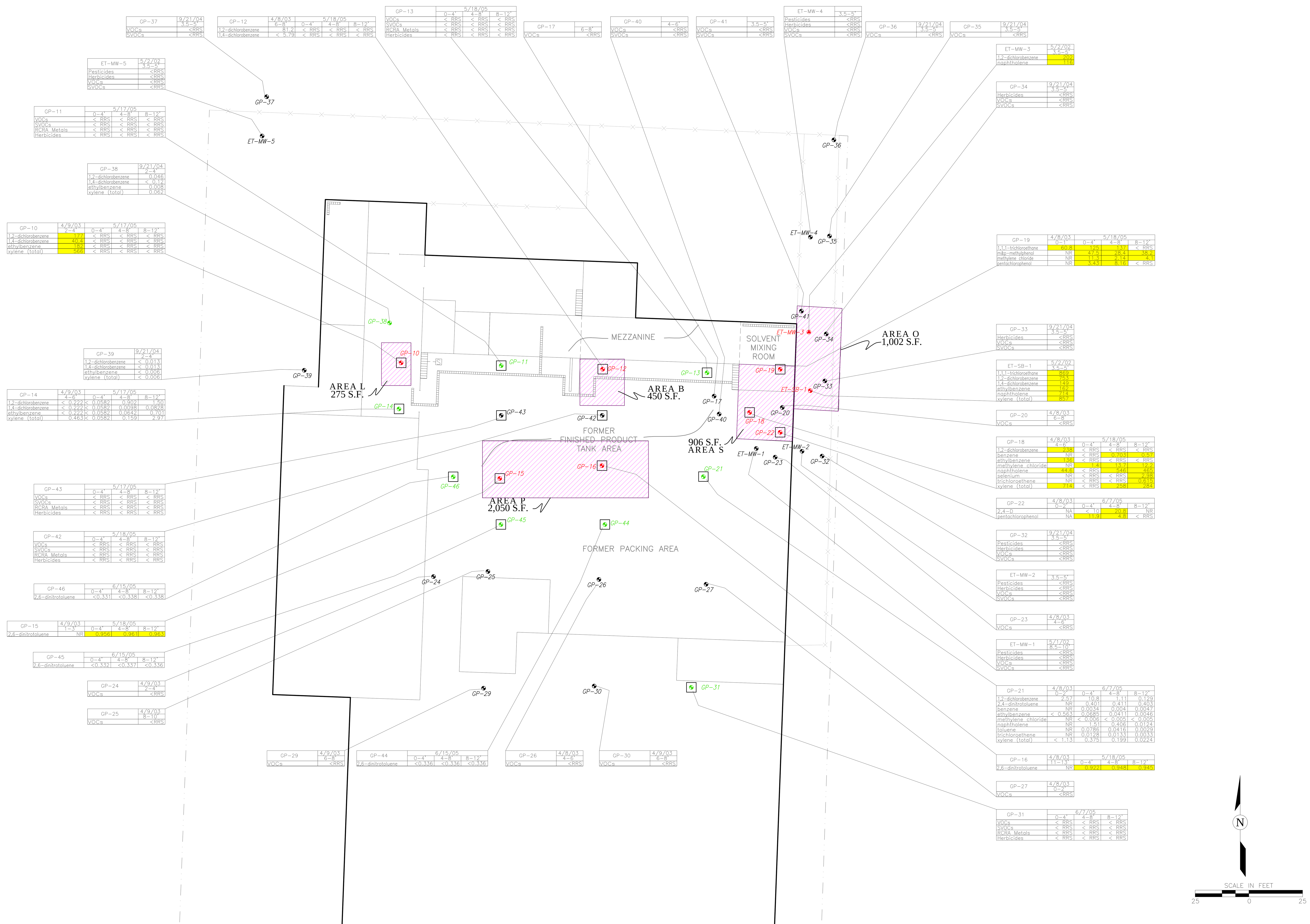
NR = NOT REPORTED

NS = NOT SAMPLED

NA = NOT ANALYZED

Chemical	Method	RRS Type	RRS (µg/kg)	GAEPD Approved
Volatile Organic Compounds				
1,1,1-TCA	SW8260	2	49,790	05/12/05
1,1,2,2-PCA	SW8260	2	371	05/12/05
1,1-Dichloroethane	SW8260	1	312,800	05/12/05
1,1-Dichloroethene	SW8260	2	3,041	05/12/05
1,2-Dichloroethane	SW8260	1	500	11/28/06
1,2-Dichlorobenzene	SW8270	2	150,564	05/12/05
1,2,4-Trichlorobenzene	SW8270	2	50,130	05/12/05
1,3-Dichlorobenzene	SW8270	2	82,930	05/12/05
1,4-Dichlorobenzene	SW8270	2	18,823	05/12/05
2-Butanone (MEK)	SW8260	1	200,000	11/28/06
4-Methyl-2-pentanone (MIBK)	SW8260	NC	3,300	
Acetone	SW8260	1	297,500	05/12/05
Benzene	SW8260	1	500	05/12/05
Carbon disulfide	SW8260	1	182,500	05/12/05
Carbon tetrachloride	SW8260	1	500	11/28/06
Chlorobenzene	SW8260	1	10,000	05/12/05
Chloroethane	SW8260	2	619	05/12/05
Chloroform	SW8260	1	3,727	05/12/05
cis-1,2-Dichloroethene (DCE)	SW8260	1	530	11/28/06
Dibromochloromethane	SW8260	1	10,000	11/28/06
Ethylbenzene	SW8260	2	104,844	05/12/05
Isopropylbenzene	SW8260	1	21,880	05/12/05
Methylene chloride	SW8260	1	500	05/12/05
Naphthalene	SW8260	1	63,388	05/12/05
Styrene	SW8260	1	14,000	11/28/06
Tetrachloroethene (PCE)	SW8260	1	500	11/28/06
Toluene	SW8260	1	100,000	05/12/05
Trichloroethene (TCE)	SW8260	1	500	05/12/05
Xylenes (total)	SW8260	1/2	229,674	05/12/05
Vinyl chloride	SW8260	1	200	11/28/06
Semi-Volatile Organic Compounds				
2,4-Dichlorophenol	SW8270	1	2,000	05/12/05
2-Chlorophenol	SW8270	2	6,529	05/12/05
Acenaphthene	SW8270	2	3,692,000	05/12/05
Bis(2-ethylhexyl)phthalate	SW8270	2	800,400	05/12/05
Fluoranthene	SW8270	2	3,070,000	05/12/05
Fluorene	SW8270	2	2,805,000	05/12/05
Pentachlorophenol	SW8270	1	3,300	05/12/05
Phenanthrene	SW8270	2	3,042,000	05/12/05
2,4-Dimethylphenol	SW8270	1	70,000	11/28/06
2,6-Dinitrotoluene	SW8270	1	760	11/28/06
2-Methylphenol	SW8270	NC*	3,800	
4-Methylphenol	SW8270	NC	3,800	
N-Nitrosodi-n-propylamine	SW8270	1	1,700	11/28/06
Phenol	SW8270	1	400,000	11/28/06
m&p-Methylphenol	SW8270		0	
Metals				
Arsenic	SW6010	1	20,000	11/28/06
Barium	SW6010	1	1,000,000	11/28/06
Cadmium	SW6010	1	2,000	11/28/06
Chromium	SW6010	1	100,000	11/28/06
Lead	SW6010	1	75,000	11/28/06
Mercury	SW6010	1	500	11/28/06
Selenium	SW6010	1	2,000	11/28/06
Chlorinated Herbicides				
2,4,5-TP (Silvex)	SW8151	1	10,000	05/12/05
Chlordane	SW8151	2	25,490	05/12/05
2,4-D	SW8151	1	7,000	05/12/05
Chlorinated Pesticides				
4,4-DDE	SW8081	NC	660	
4,4-DDT	SW8081	NC	660	
Heptachlor Epoxide	SW8081	1	1,600	11/28/06

Notes:
NC: Notification Concentration



NO.	DATE	APPR.	REVISION	NO.	DATE	APPR.	REVISION
1	11/15/06	TH	ADDED INJECTION WELLS B-4, B-4A, B-4B, L-3, L-3A				
2	1/11/07	JDR	REVISE DATA FOR EPD LETTERS 10/3/06 & 11/8/06				
3	1/31/07	JDR	ADD 1/3/07 DATA				

VOLUNTARY COMPLIANCE STATUS REPORT

I. SCHNEID FACILITY — ATLANTA, FULTON COUNTY, GEORGIA

DRAWN BY: M. HYRE — PROJECT ENGINEER: T. HARBAGE

DESIGN ENGINEER — PROJECT MANAGER: J. RIGGENBACH

ERM

NOT FOR CONST-RUCTION

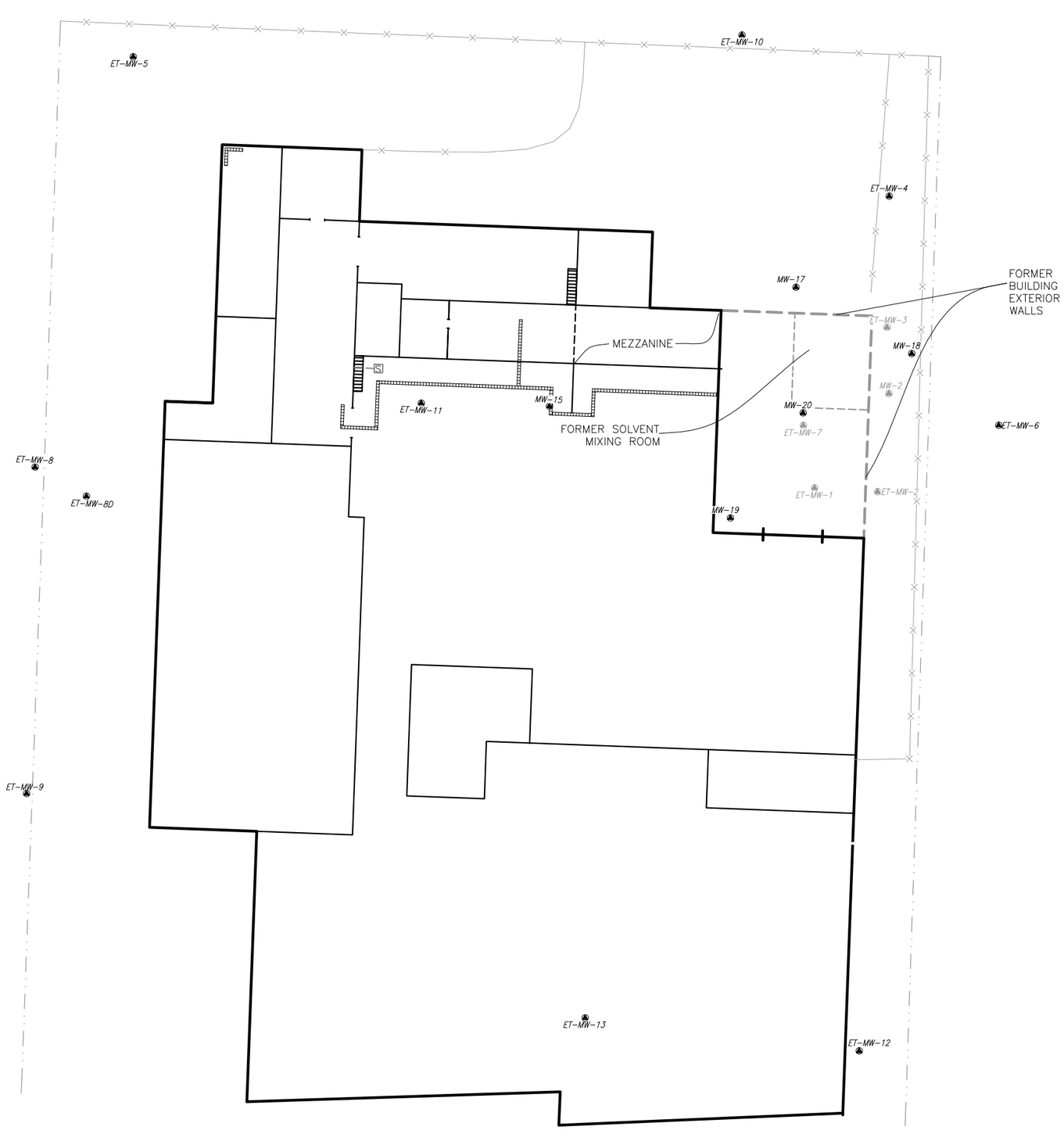
LOCATIONS OF SITE ASSESSMENT SOIL BORINGS

SCALE: 1"= 25' — DATE: SEPTEMBER 5, 2006

PROJECT NO. 21889 — AutoCAD 2002: 21889SCS_CAR_09-06.DWG

DRAWING NO. 4-1 — REV. NO. 1 — SHEET OF

C:\Temp\ISL FIGURES\121021 ISL\2017\07 2017\121021Site5.dwg



LEGEND

- ET-MW-8 — MONITOR WELL LOCATION
- ET-MW-1 — ABANDONED MONITOR WELL LOCATION
- FLOOR DRAIN
- SUMP
- STAIRS
- FENCE LINE
- PROPERTY LINE

N

0 40 80

SCALE FEET

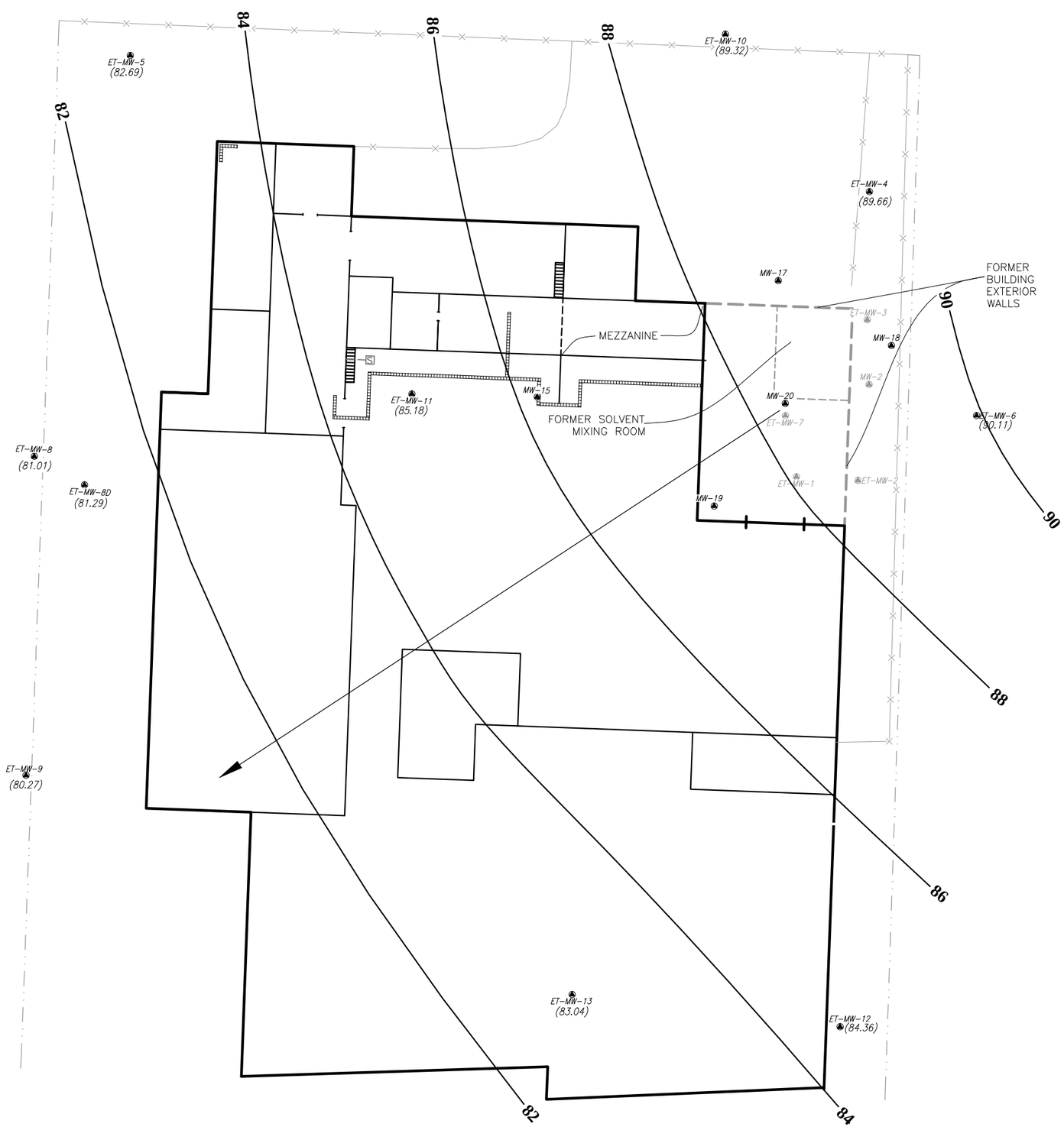
Environmental Resources Management

FIGURE 4-2
LOCATIONS OF GROUND WATER MONITORING WELLS
VOLUNTARY COMPLIANCE STATUS REPORT
I. SCHNEID FACILITY
ATLANTA, FULTON COUNTY, GEORGIA

DESIGN: SV	DRAWN: SV	CHKD.: BF
DATE: 7/19/2017	SCALE: AS SHOWN	REV.: 0

W.O.NO.: C:\Temp\ISL FIGURES\121021 ISL\2017\07 2017\121021Site4.dwg

ERM



LEGEND

- ET-MW-8 — MONITOR WELL LOCATION
- ET-MW-1 — ABANDONED MONITOR WELL LOCATION
- FLOOR DRAIN
- SUMP
- STAIRS
- FENCE LINE
- PROPERTY LINE
- (90.11) — GROUND WATER ELEVATION (JANUARY 8, 2016, FT.)
- 88 — POTENTIOMETRIC SURFACE CONTOUR
- APPARENT GROUND WATER FLOW DIRECTION

N

NOTES

1. ALL ELEVATIONS ARE RELATIVE TO A TEMPORARY BENCHMARK

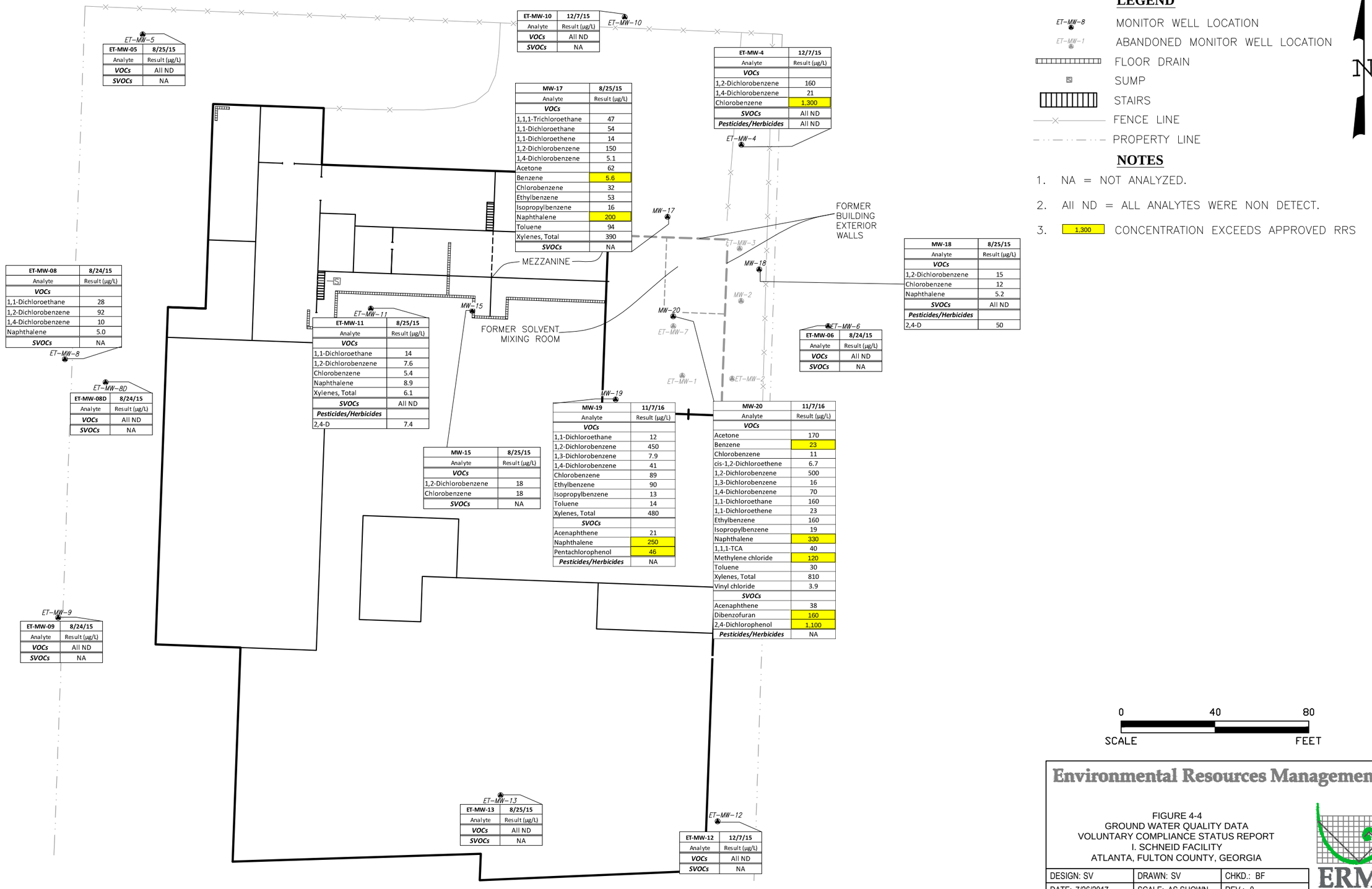
0 40 80
SCALE FEET

Environmental Resources Management

FIGURE 4-3
POTENTIOMETRIC SURFACE MAP
JANUARY 8, 2016
VOLUNTARY COMPLIANCE STATUS REPORT
I. SCHNEID FACILITY
ATLANTA, FULTON COUNTY, GEORGIA

DESIGN: SV	DRAWN: SV	CHKD.: BF
DATE: 7/19/2017	SCALE: AS SHOWN	REV.: 0

W.O.NO.: C:\Temp\ISL FIGURES\121021 ISL\2017\07 2017\121021Site4.dwg



LEGEND

- ET-MW-8 — MONITOR WELL LOCATION
- ET-MW-1 — ABANDONED MONITOR WELL LOCATION
- FLOOR DRAIN
- SUMP
- STAIRS
- FENCE LINE
- PROPERTY LINE

N

NOTES

1. NA = NOT ANALYZED.
2. All ND = ALL ANALYTES WERE NON DETECT.
3. 1,300 CONCENTRATION EXCEEDS APPROVED RRS

0 40 80
SCALE FEET

Environmental Resources Management

FIGURE 4-4
GROUND WATER QUALITY DATA
VOLUNTARY COMPLIANCE STATUS REPORT
I. SCHNEID FACILITY
ATLANTA, FULTON COUNTY, GEORGIA

DESIGN: SV	DRAWN: SV	CHKD.: BF
DATE: 7/26/2017	SCALE: AS SHOWN	REV.: 0

W.O.NO.: C:\Temp\ISL FIGURES\121021 ISL\2017\07 2017\121021Site4.dwg

LEGEND

- SOIL SAMPLE LOCATION (PRE-CAP)
- 2005 SOIL DELINEATION SAMPLES (PRE-ISCO)
- SOIL CONFIRMATION SAMPLE LOCATION (POST-ISCO)
- FLOOR DRAIN
- SOIL REMEDIATION AREAS
- *RED* SAMPLE POINT EXCEEDS RRS
- *GREEN* SAMPLE POINT BELOW RRS
- HIGHLIGHTED DATA EXCEEDS RRS

NOTES:

ALL CONCENTRATIONS IN mg/Kg
NR = NOT REPORTED
NS = NOT SAMPLED
NA = NOT ANALYZED

Chemical	Method	RRS Type	RRS (µg/kg)	GAEPD Approved
Volatile Organic Compounds				
1,1,1-TCA	SW8260	2	49,790	05/12/05
1,1,2,2-PCA	SW8260	2	371	05/12/05
1,1-Dichloroethane	SW8260	1	312,800	05/12/05
1,1-Dichloroethene	SW8260	2	3,041	05/12/05
1,2-Dichloroethane	SW8260	1	500	11/28/06
1,2-Dichlorobenzene	SW8270	2	150,564	05/12/05
1,2,4-Trichlorobenzene	SW8270	2	50,130	05/12/05
1,3-Dichlorobenzene	SW8270	2	82,930	05/12/05
1,4-Dichlorobenzene	SW8270	2	18,823	05/12/05
2-Butanone (MEK)	SW8260	1	200,000	11/28/06
4-Methyl-2-pentanone (MIBK)	SW8260	NC	3,300	
Acetone	SW8260	1	297,500	05/12/05
Benzene	SW8260	1	500	05/12/05
Carbon disulfide	SW8260	1	182,500	05/12/05
Carbon tetrachloride	SW8260	1	500	11/28/06
Chlorobenzene	SW8260	1	10,000	05/12/05
Chloroethane	SW8260	2	619	05/12/05
Chloroform	SW8260	1	3,727	05/12/05
cis-1,2-Dichloroethene (DCE)	SW8260	1	530	11/28/06
Dibromochloromethane	SW8260	1	10,000	11/28/06
Ethylbenzene	SW8260	2	104,844	05/12/05
Isopropylbenzene	SW8260	1	21,880	05/12/05
Methylene chloride	SW8260	1	500	05/12/05
Naphthalene	SW8260	1	63,388	05/12/05
Styrene	SW8260	1	14,000	11/28/06
Tetrachloroethene (PCE)	SW8260	1	500	11/28/06
Toluene	SW8260	1	100,000	05/12/05
Trichloroethene (TCE)	SW8260	1	500	05/12/05
Xylenes (total)	SW8260	1/2	229,674	05/12/05
Vinyl chloride	SW8260	1	200	11/28/06
Semi-Volatile Organic Compounds				
2,4-Dichlorophenol	SW8270	1	2,000	05/12/05
2-Chlorophenol	SW8270	2	6,529	05/12/05
Acenaphthene	SW8270	2	3,692,000	05/12/05
Bis(2-ethylhexyl)phthalate	SW8270	2	800,400	05/12/05
Fluoranthene	SW8270	2	3,070,000	05/12/05
Fluorene	SW8270	2	2,805,000	05/12/05
Pentachlorophenol	SW8270	1	3,300	05/12/05
Phenanthrene	SW8270	2	3,042,000	05/12/05
2,4-Dimethylphenol	SW8270	1	70,000	11/28/06
2,6-Dinitrotoluene	SW8270	1	760	11/28/06
2-Methylphenol	SW8270	NC*	3,800	
4-Methylphenol	SW8270	NC	3,800	
N-Nitrosodi-n-propylamine	SW8270	1	1,700	11/28/06
Phenol	SW8270	1	400,000	11/28/06
m&p-Methylphenol	SW8270		0	
Metals				
Arsenic	SW6010	1	20,000	11/28/06
Barium	SW6010	1	1,000,000	11/28/06
Cadmium	SW6010	1	2,000	11/28/06
Chromium	SW6010	1	100,000	11/28/06
Lead	SW6010	1	75,000	11/28/06
Mercury	SW6010	1	500	11/28/06
Selenium	SW6010	1	2,000	11/28/06
Chlorinated Herbicides				
2,4,5-TP (Silvex)	SW8151	1	10,000	05/12/05
Chlordane	SW8151	2	25,490	05/12/05
2,4-D	SW8151	1	7,000	05/12/05
Chlorinated Pesticides				
4,4-DDE	SW8081	NC	660	
4,4-DDT	SW8081	NC	660	
Heptachlor Epoxide	SW8081	1	1,600	11/28/06

Notes:
NC: Notification Concentration

N

SCALE IN FEET
2 0 2

B-1-1-3	1/3/07		
	0-4'	4-8'	8-12'
VOCs	< RRS	< RRS	< RRS
SVOCs	< RRS	< RRS	< RRS

GP-12	4/8/03	5/18/05		
	6-8'	0-4'	4-8'	8-12'
1,2-dichlorobenzene	81.2	< RRS	< RRS	< RRS
1,4-dichlorobenzene	< 5.79	< RRS	< RRS	< RRS

GP-59	2/23/06		
	0-4'	4-8'	8-12'
VOCs	< RRS	< RRS	< RRS
SVOCs	< RRS	< RRS	< RRS

GP-60	2/23/06		
	0-4'	4-8'	8-12'
VOCs	< RRS	< RRS	< RRS
SVOCs	< RRS	< RRS	< RRS

B-2-1-3	1/3/07		
	0-4'	4-8'	8-12'
2,4-dichlorophenol	5.9	6.4	2.6
1,2-dichlorobenzene	200	140	8.3
1,4-dichlorobenzene	53	44	1.3
chlorobenzene	13	6.1	0.073
pentachlorophenol	3.2	4	< 2.1

GP-58	2/23/06		
	0-4'	4-8'	8-12'
2,4-dichlorophenol	3.9	2.5	3.64

GP-61	2/23/06		
	0-4'	4-8'	8-12'
VOCs	< RRS	< RRS	< RRS
SVOCs	< RRS	< RRS	< RRS

B-1-1-3
GP-12
B-2-1-3
GP-58
GP-59
GP-60
GP-61

AREA B
450 S.F.

NO.	DATE	APPR.	REVISION	NO.	DATE	APPR.	REVISION

VOLUNTARY COMPLIANCE STATUS REPORT

I. SCHNEID FACILITY — ATLANTA, FULTON COUNTY, GEORGIA

DRAWN BY	PROJECT ENGINEER
S. VIZUETE	S. THOMPSON
DESIGN ENGINEER	PROJECT MANAGER
S. THOMPSON	S. THOMPSON

ERM

NOT FOR CONST-RUCTION

AREA B CONFIRMATION SOIL SAMPLE LOCATIONS AND ANALYTICAL RESULTS

SCALE	DATE
AS NOTED	FEBRUARY 1, 2010
PROJECT NO.	AutoCAD 2002
21889	21889SiteF4-1.DWG

DRAWING NO. 5-1
REV. NO. 0
SHEET 1 OF 1

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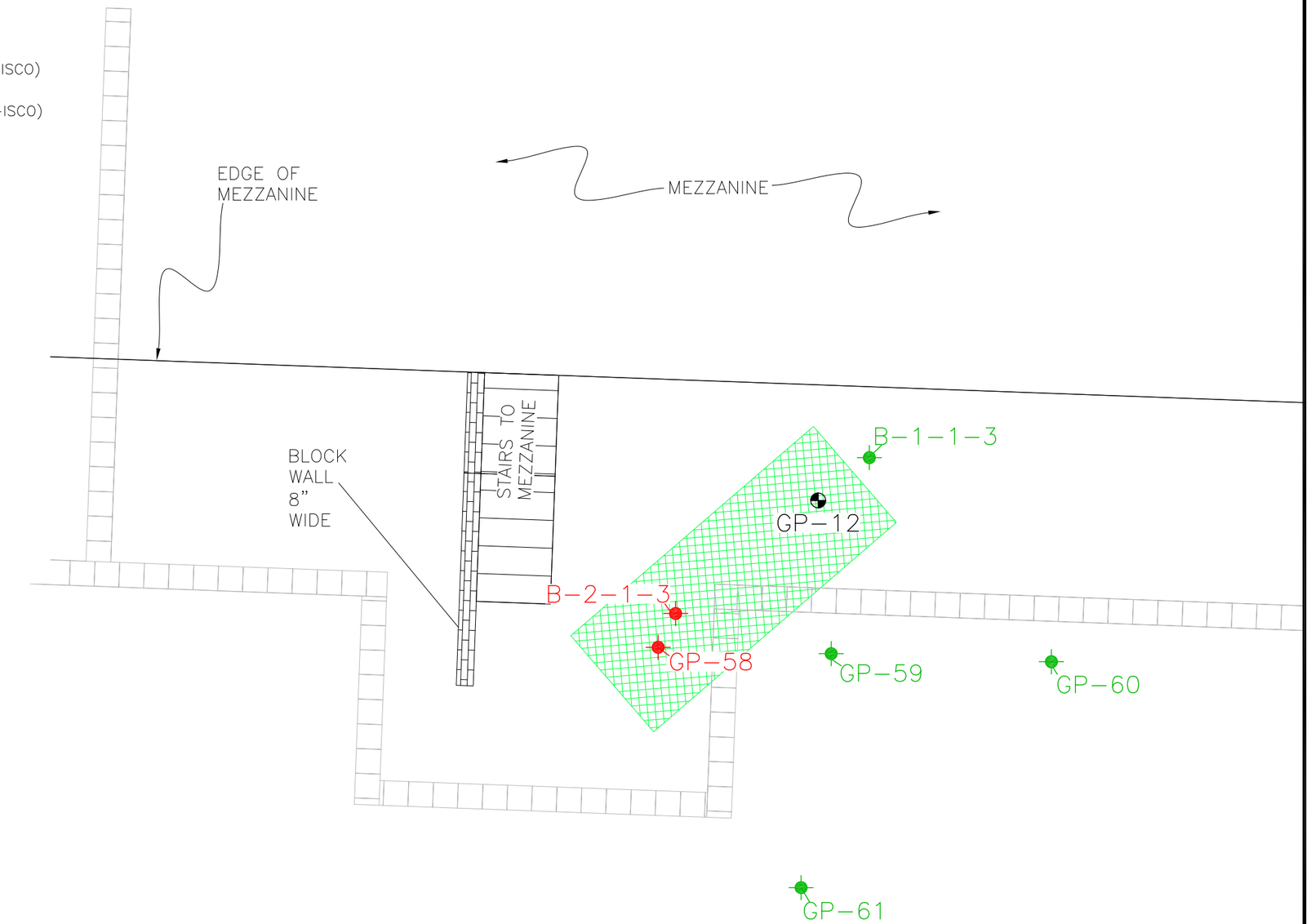
LEGEND

GP–12	2005 SOIL DELINEATION SAMPLE (PRE–ISCO)
B–2–1–3	SOIL CONFIRMATION SAMPLE LOCATION ABOVE RRS (POST–ISCO)
B–1–1–3	SOIL CONFIRMATION SAMPLE LOCATION BELOW RRS (POST–ISCO)
	FLOOR DRAIN
	SOIL TO BE REMOVED TO 12' BGS

NOTES

1. CONFIRMATION SAMPLES WILL BE COLLECTED FROM THE SIDEWALLS AND BASE OF THE EXCAVATED AREA.
2. EACH SIDEWALL WILL BE SAMPLED ON THE CENTERLINE OF THE SIDEWALL AND AT DEPTHS OF 1.5', 6' AND 10' BELOW THE CONCRETE SURFACE.
3. THE BASE SAMPLE WILL BE COLLECTED FROM THE CENTER OF THE BASE SURFACE.



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ERM Environmental Resources Management

AREA B PLANNED LIMITS OF EXCAVATION
VOLUNTARY COMPLIANCE STATUS REPORT
I. SCHNEID FACILITY
ATLANTA, FULTON COUNTY, GEORGIA

FIGURE
5-2

LEGEND

WEST-0E1-1.5 EXCAVATION CONFIRMATION SAMPLING LOCATION

RED SAMPLE POINT OR TEXT EXCEEDS RRS

GREEN SAMPLE POINT OR TEXT BELOW RRS

FLOOR DRAIN

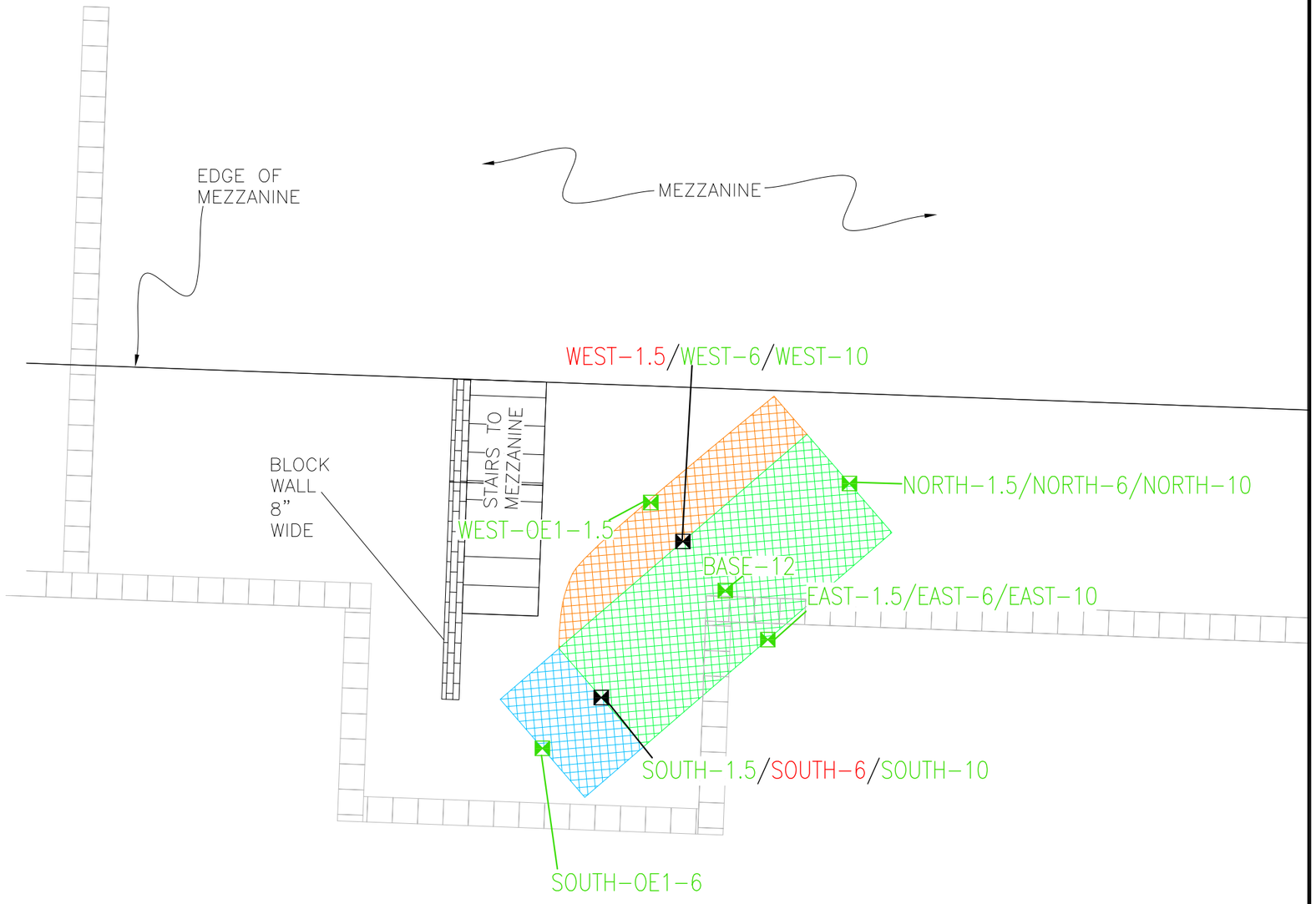
SOIL REMOVED TO 12' BGS

SOIL REMOVED TO 10' BGS

SOIL REMOVED TO 6' BGS

NOTES

1. CONFIRMATION SAMPLES WERE COLLECTED FROM THE SIDEWALLS AND BASE OF THE EXCAVATED AREA.
2. EACH SIDEWALL WAS SAMPLED ON THE CENTERLINE OF THE SIDEWALL AND AT DEPTHS OF 1.5', 6' AND 10' BELOW THE CONCRETE SURFACE.
3. THE BASE SAMPLE WAS COLLECTED FROM THE CENTER OF THE BASE SURFACE.
4. ADDITIONAL EXCAVATION WAS PERFORMED TO REMOVE SOILS IN AREAS WHERE CONFIRMATION SAMPLES EXCEEDED RRS. SPECIFICALLY, THE WEST WALL OF THE EXCAVATION WAS EXPANDED TO REMOVE SOIL SAMPLE LOCATION WEST-1.5 AND THE SOUTH WALL OF THE EXCAVATION WAS EXPANDED TO REMOVE SOIL SAMPLE LOCATION SOUTH-6.



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SCALE IN FEET

0 2.5 5

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ERM Environmental Resources Management

AREA B FINAL LIMITS OF EXCAVATION
VOLUNTARY COMPLIANCE STATUS REPORT
I. SCHNEID FACILITY
ATLANTA, FULTON COUNTY, GEORGIA

FIGURE
5-3

LEGEND

- SOIL SAMPLE LOCATION (PRE-CAP)
- 2005 SOIL DELINEATION SAMPLES (PRE-ISCO)
- SOIL CONFIRMATION SAMPLE LOCATION (POST-ISCO)
- FLOOR DRAIN
- S — SUMP
- SOIL REMEDIATION AREAS
- STAIRS
- RED — SAMPLE POINT EXCEEDS RRS
- GREEN — SAMPLE POINT BELOW RRS
- HIGHLIGHTED DATA EXCEEDS RRS

NOTES:

ALL CONCENTRATIONS IN mg/Kg
NR = NOT REPORTED
NS = NOT SAMPLED
NA = NOT ANALYZED

Chemical	Method	RRS Type	RRS (µg/kg)	GAEPD Approved
Volatile Organic Compounds				
1,1,1-TCA	SW8260	2	49,790	05/12/05
1,1,2,2-PCA	SW8260	2	371	05/12/05
1,1-Dichloroethane	SW8260	1	312,800	05/12/05
1,1-Dichloroethene	SW8260	2	3,041	05/12/05
1,2-Dichloroethane	SW8260	1	500	11/28/06
1,2-Dichlorobenzene	SW8270	2	150,564	05/12/05
1,2,4-Trichlorobenzene	SW8270	2	50,130	05/12/05
1,3-Dichlorobenzene	SW8270	2	82,930	05/12/05
1,4-Dichlorobenzene	SW8270	2	18,823	05/12/05
2-Butanone (MEK)	SW8260	1	200,000	11/28/06
4-Methyl-2-pentanone (MIBK)	SW8260	NC	3,300	
Acetone	SW8260	1	297,500	05/12/05
Benzene	SW8260	1	500	05/12/05
Carbon disulfide	SW8260	1	182,500	05/12/05
Carbon tetrachloride	SW8260	1	500	11/28/06
Chlorobenzene	SW8260	1	10,000	05/12/05
Chloroethane	SW8260	2	619	05/12/05
Chloroform	SW8260	1	3,727	05/12/05
cis-1,2-Dichloroethene (DCE)	SW8260	1	530	11/28/06
Dibromochloromethane	SW8260	1	10,000	11/28/06
Ethylbenzene	SW8260	2	104,844	05/12/05
Isopropylbenzene	SW8260	1	21,880	05/12/05
Methylene chloride	SW8260	1	500	05/12/05
Naphthalene	SW8260	1	63,388	05/12/05
Styrene	SW8260	1	14,000	11/28/06
Tetrachloroethene (PCE)	SW8260	1	500	11/28/06
Toluene	SW8260	1	100,000	05/12/05
Trichloroethene (TCE)	SW8260	1	500	05/12/05
Xylenes (total)	SW8260	1/2	229,674	05/12/05
Vinyl chloride	SW8260	1	200	11/28/06
Semi-Volatile Organic Compounds				
2,4-Dichlorophenol	SW8270	1	2,000	05/12/05
2-Chlorophenol	SW8270	2	6,529	05/12/05
Acenaphthene	SW8270	2	3,692,000	05/12/05
Bis(2-ethylhexyl)phthalate	SW8270	2	800,400	05/12/05
Fluoranthene	SW8270	2	3,070,000	05/12/05
Fluorene	SW8270	2	2,805,000	05/12/05
Pentachlorophenol	SW8270	1	3,300	05/12/05
Phenanthrene	SW8270	2	3,042,000	05/12/05
2,4-Dimethylphenol	SW8270	1	70,000	11/28/06
2,6-Dinitrotoluene	SW8270	1	760	11/28/06
2-Methylphenol	SW8270	NC*	3,800	
4-Methylphenol	SW8270	NC	3,800	
N-Nitrosodi-n-propylamine	SW8270	1	1,700	11/28/06
Phenol	SW8270	1	400,000	11/28/06
m&p-Methylphenol	SW8270		0	
Metals				
Arsenic	SW6010	1	20,000	11/28/06
Barium	SW6010	1	1,000,000	11/28/06
Cadmium	SW6010	1	2,000	11/28/06
Chromium	SW6010	1	100,000	11/28/06
Lead	SW6010	1	75,000	11/28/06
Mercury	SW6010	1	500	11/28/06
Selenium	SW6010	1	2,000	11/28/06
Chlorinated Herbicides				
2,4,5-TP (Silvex)	SW8151	1	10,000	05/12/05
Chlordane	SW8151	2	25,490	05/12/05
2,4-D	SW8151	1	7,000	05/12/05
Chlorinated Pesticides				
4,4-DDE	SW8081	NC	660	
4,4-DDT	SW8081	NC	660	
Heptachlor Epoxide	SW8081	1	1,600	11/28/06

Notes:
NC: Notification Concentration

GP-10	4/9/03	5/17/05		
	2-4'	0-4'	4-8'	8-12'
1,2-dichlorobenzene	177	< RRS	< RRS	< RRS
1,4-dichlorobenzene	40.4	< RRS	< RRS	< RRS
ethylbenzene	182	< RRS	< RRS	< RRS
xylene (total)	566	< RRS	< RRS	< RRS

GP-47	2/9/06
	0-4'
VOCs	<RRS
SVOCs	<RRS

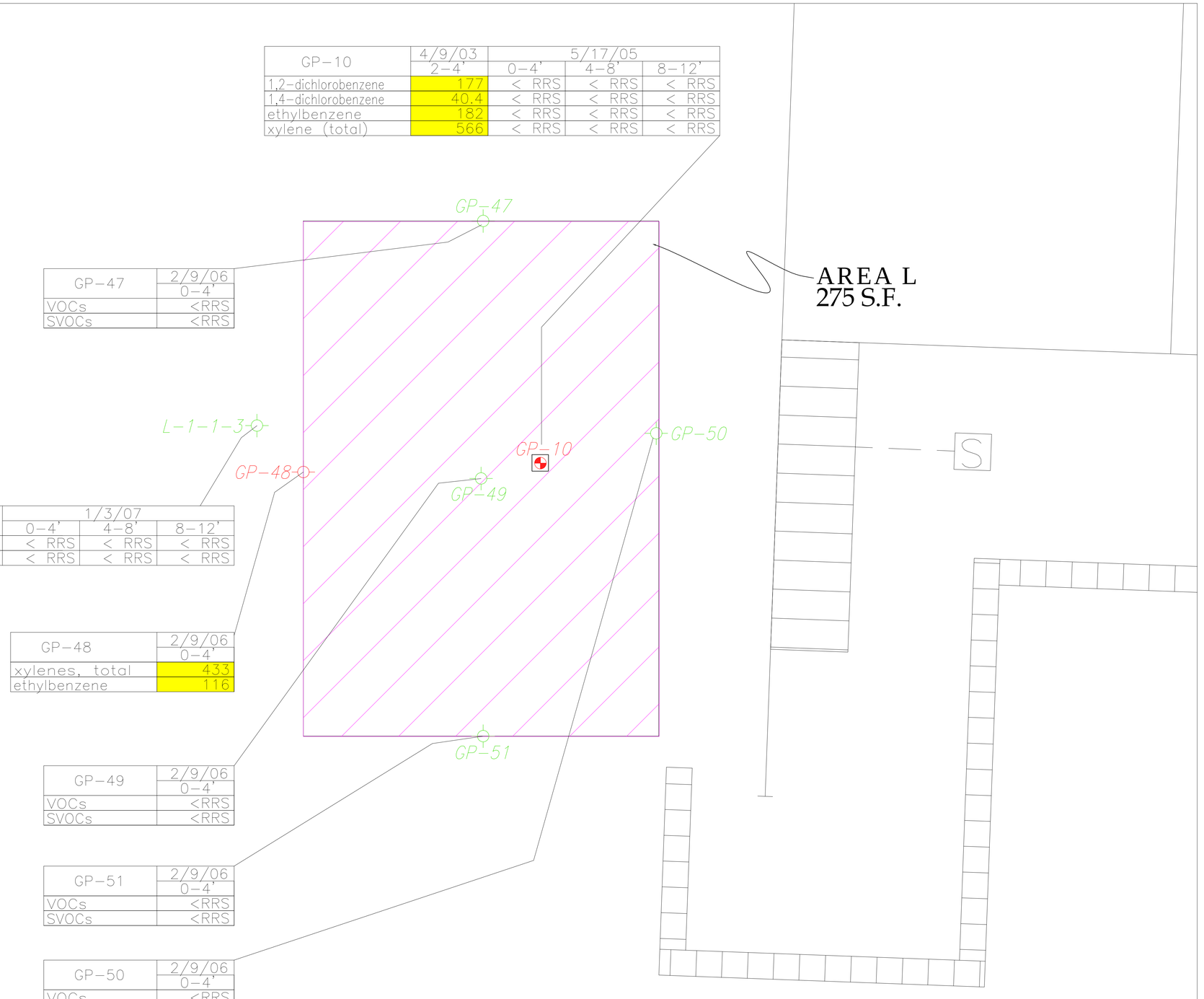
L-1-1-3	1/3/07		
	0-4'	4-8'	8-12'
VOCs	< RRS	< RRS	< RRS
SVOCs	< RRS	< RRS	< RRS

GP-48	2/9/06
	0-4'
xylenes, total	433
ethylbenzene	116

GP-49	2/9/06
	0-4'
VOCs	<RRS
SVOCs	<RRS

GP-51	2/9/06
	0-4'
VOCs	<RRS
SVOCs	<RRS

GP-50	2/9/06
	0-4'
VOCs	<RRS
SVOCs	<RRS



SCALE IN FEET
2 0 2

NO.	DATE	APPR.	REVISION	NO.	DATE	APPR.	REVISION

VOLUNTARY COMPLIANCE STATUS REPORT

I. SCHNEID FACILITY — ATLANTA, FULTON COUNTY, GEORGIA

DRAWN BY	PROJECT ENGINEER
S. VIZUETE	S. THOMPSON
DESIGN ENGINEER	PROJECT MANAGER
S. THOMPSON	S. THOMPSON

ERM

NOT FOR CONST-RUCTION

AREA L CONFIRMATION SOIL SAMPLE LOCATIONS AND ANALYTICAL RESULTS

SCALE	DATE
AS NOTED	FEBRUARY 1, 2010
PROJECT NO.	AutoCAD 2002
21889	21889SiteF4-1.DWG

DRAWING NO. **5-4**
REV. NO. **0**
SHEET **1** OF **1**

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LEGEND

- SOIL SAMPLE LOCATION (PRE-CAP)
- 2005 SOIL DELINEATION SAMPLES (PRE-ISCO)
- SOIL CONFIRMATION SAMPLE LOCATION (POST-ISCO)
- SOIL REMEDIATION AREAS
- *RED* SAMPLE POINT EXCEEDS RRS
- *GREEN* SAMPLE POINT BELOW RRS
- HIGHLIGHTED DATA EXCEEDS RRS

NOTES:

ALL CONCENTRATIONS IN mg/Kg
NR = NOT REPORTED
NS = NOT SAMPLED
NA = NOT ANALYZED

Chemical	Method	RRS Type	RRS (µg/kg)	GAEPD Approved
Volatile Organic Compounds				
1,1,1-TCA	SW8260	2	49,790	05/12/05
1,1,2,2-PCA	SW8260	2	371	05/12/05
1,1-Dichloroethane	SW8260	1	312,800	05/12/05
1,1-Dichloroethene	SW8260	2	3,041	05/12/05
1,2-Dichloroethane	SW8260	1	500	11/28/06
1,2-Dichlorobenzene	SW8270	2	150,564	05/12/05
1,2,4-Trichlorobenzene	SW8270	2	50,130	05/12/05
1,3-Dichlorobenzene	SW8270	2	82,930	05/12/05
1,4-Dichlorobenzene	SW8270	2	18,823	05/12/05
2-Butanone (MEK)	SW8260	1	200,000	11/28/06
4-Methyl-2-pentanone (MIBK)	SW8260	NC	3,300	
Acetone	SW8260	1	297,500	05/12/05
Benzene	SW8260	1	500	05/12/05
Carbon disulfide	SW8260	1	182,500	05/12/05
Carbon tetrachloride	SW8260	1	500	11/28/06
Chlorobenzene	SW8260	1	10,000	05/12/05
Chloroethane	SW8260	2	619	05/12/05
Chloroform	SW8260	1	3,727	05/12/05
cis-1,2-Dichloroethene (DCE)	SW8260	1	530	11/28/06
Dibromochloromethane	SW8260	1	10,000	11/28/06
Ethylbenzene	SW8260	2	104,844	05/12/05
Isopropylbenzene	SW8260	1	21,880	05/12/05
Methylene chloride	SW8260	1	500	05/12/05
Naphthalene	SW8260	1	63,388	05/12/05
Styrene	SW8260	1	14,000	11/28/06
Tetrachloroethene (PCE)	SW8260	1	500	11/28/06
Toluene	SW8260	1	100,000	05/12/05
Trichloroethene (TCE)	SW8260	1	500	05/12/05
Xylenes (total)	SW8260	1/2	229,674	05/12/05
Vinyl chloride	SW8260	1	200	11/28/06
Semi-Volatile Organic Compounds				
2,4-Dichlorophenol	SW8270	1	2,000	05/12/05
2-Chlorophenol	SW8270	2	6,529	05/12/05
Acenaphthene	SW8270	2	3,692,000	05/12/05
Bis(2-ethylhexyl)phthalate	SW8270	2	800,400	05/12/05
Fluoranthene	SW8270	2	3,070,000	05/12/05
Fluorene	SW8270	2	2,805,000	05/12/05
Pentachlorophenol	SW8270	1	3,300	05/12/05
Phenanthrene	SW8270	2	3,042,000	05/12/05
2,4-Dimethylphenol	SW8270	1	70,000	11/28/06
2,6-Dinitrotoluene	SW8270	1	760	11/28/06
2-Methylphenol	SW8270	NC*	3,800	
4-Methylphenol	SW8270	NC	3,800	
N-Nitrosodi-n-propylamine	SW8270	1	1,700	11/28/06
Phenol	SW8270	1	400,000	11/28/06
m&p-Methylphenol	SW8270		0	
Metals				
Arsenic	SW6010	1	20,000	11/28/06
Barium	SW6010	1	1,000,000	11/28/06
Cadmium	SW6010	1	2,000	11/28/06
Chromium	SW6010	1	100,000	11/28/06
Lead	SW6010	1	75,000	11/28/06
Mercury	SW6010	1	500	11/28/06
Selenium	SW6010	1	2,000	11/28/06
Chlorinated Herbicides				
2,4,5-TP (Silvex)	SW8151	1	10,000	05/12/05
Chlordane	SW8151	2	25,490	05/12/05
2,4-D	SW8151	1	7,000	05/12/05
Chlorinated Pesticides				
4,4-DDE	SW8081	NC	660	
4,4-DDT	SW8081	NC	660	
Heptachlor Epoxide	SW8081	1	1,600	11/28/06

Notes:
NC: Notification Concentration

GP-52	2/9/06 0-4'	2/9/06 4-8'	2/9/06 8-12'
VOCs	<RRS	<RRS	<RRS
SVOCs	<RRS	<RRS	<RRS

GP-54	2/9/06 0-4'	2/9/06 4-8'	2/9/06 8-12'
VOCs	<RRS	<RRS	<RRS
SVOCs	<RRS	<RRS	<RRS

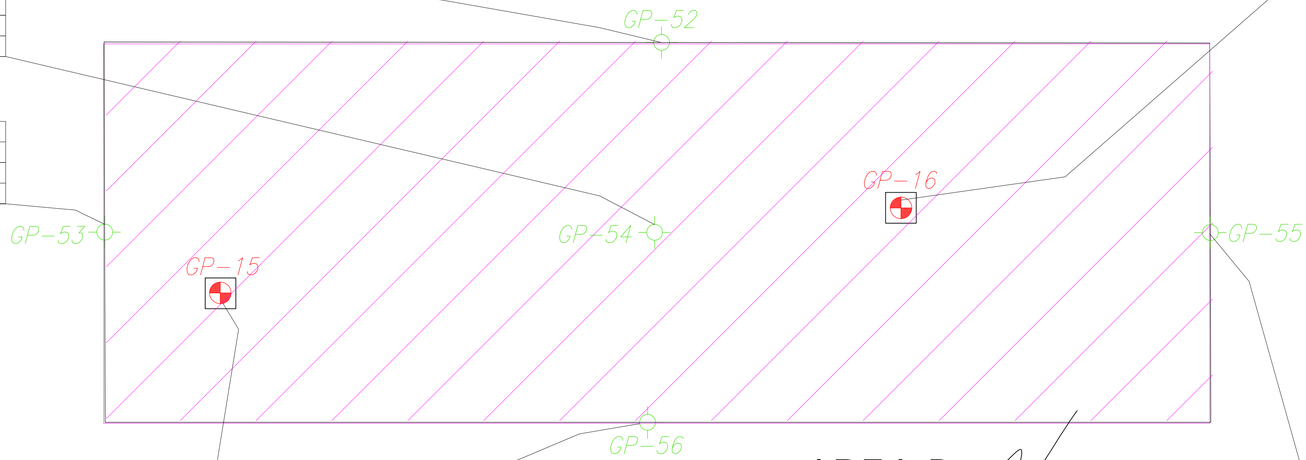
GP-53	2/9/06 0-4'	2/9/06 4-8'	2/9/06 8-12'
VOCs	<RRS	<RRS	<RRS
SVOCs	<RRS	<RRS	<RRS

GP-16	4/8/03 11-13'	5/18/05 0-4'	4-8'	8-12'
2,6-dinitrotoluene	NR	0.922	0.948	0.945

GP-15	4/9/03 1-3'	5/18/05 0-4'	4-8'	8-12'
2,6-dinitrotoluene	NR	0.956	0.961	0.963

GP-56	2/9/06 0-4'	2/9/06 4-8'	2/9/06 8-12'
VOCs	<RRS	<RRS	<RRS
SVOCs	<RRS	<RRS	<RRS

GP-55	2/9/06 0-4'	2/9/06 4-8'	2/9/06 8-12'
VOCs	<RRS	<RRS	<RRS
SVOCs	<RRS	<RRS	<RRS



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SCALE IN FEET
5 0 5

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NO.	DATE	APPR.	REVISION	NO.	DATE	APPR.	REVISION

VOLUNTARY COMPLIANCE STATUS REPORT

I. SCHNEID FACILITY — ATLANTA, FULTON COUNTY, GEORGIA

DRAWN BY	PROJECT ENGINEER
S. VIZUETE	S. THOMPSON
DESIGN ENGINEER	PROJECT MANAGER
S. THOMPSON	S. THOMPSON

ERM

NOT FOR CONST-RUCTION

AREA P CONFIRMATION SOIL SAMPLE LOCATIONS AND ANALYTICAL RESULTS

SCALE	DATE
AS NOTED	FEBRUARY 1, 2010
PROJECT NO.	AutoCAD 2002
21889	21889SiteF4-1.DWG

DRAWING NO. 5-5
REV. NO. 0
SHEET 1 OF 1

LEGEND

- FLOOR DRAIN
- SUMP
- STAIRS
- FENCE LINE
- PROPERTY LINE
- BUILDING STRUCTURAL COLUMN IN IMMEDIATE AREA OF SOIL REMOVAL
- PROPOSED EXCAVATION BOUNDARY AND AREA FOR THIS DEPTH INTERVAL – EXCAVATION ENDS AT 5 FEET BGS
- PROPOSED EXCAVATION BOUNDARY AND AREA FOR THIS DEPTH INTERVAL – EXCAVATION ENDS AT 10 FEET BGS
- PROPOSED EXCAVATION BOUNDARY AND AREA FOR THIS DEPTH INTERVAL – EXCAVATION ENDS AT 13 FEET BGS
- PRE–EXCAVATION SOIL BORING LOCATION
- BGS BELOW GROUND SURFACE

JANUARY & OCTOBER 2012 SOIL SAMPLING IN AREA O AND AREA S

SEE DETAIL VIEW

MEZZANINE

MEZZ.

SB-1 SB-2 SB-3 SB-4 SB-5 SB-6 SB-7 SB-8 SB-9 SB-10 SB-11 SB-12 SB-13 SB-14 SB-15 SB-16 SB-17 SB-18 SB-19 SB-20 SB-21

SCALE IN FEET
0 35 70

SCALE IN FEET
0 10 20

N

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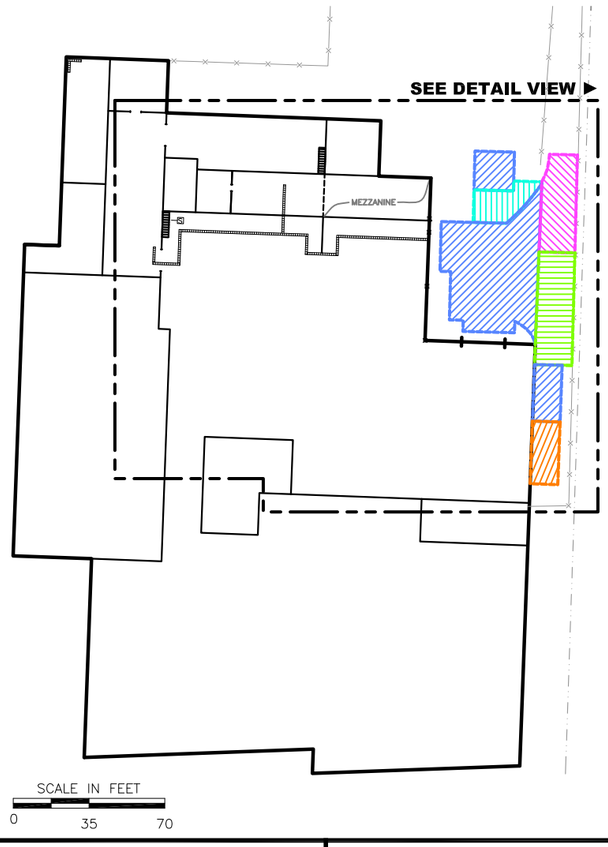
Environmental Resources Management

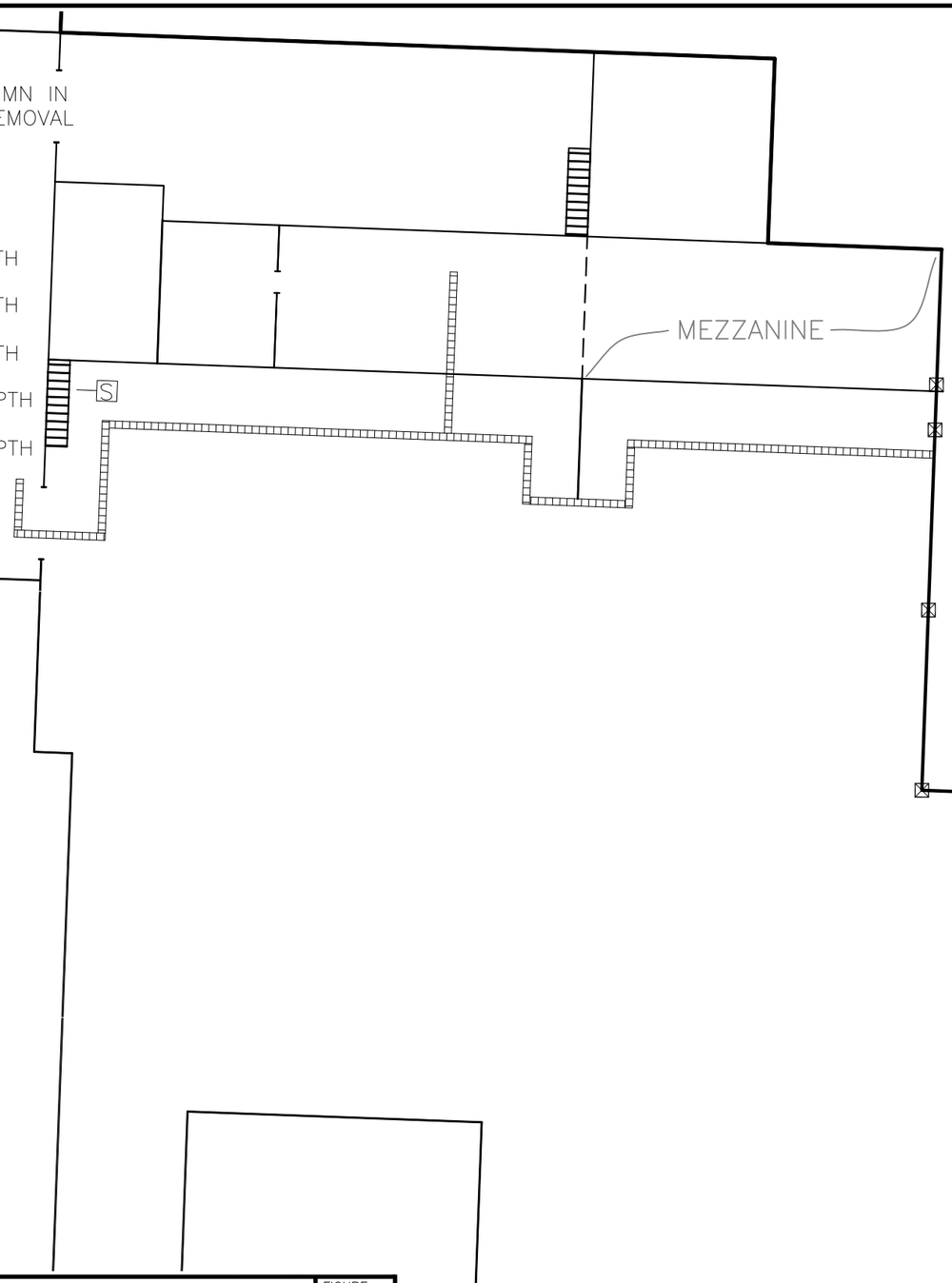
AREAS O AND S EXCAVATION DESIGN
VOLUNTARY COMPLIANCE STATUS REPORT
I. SCHNEID FACILITY
ATLANTA, FULTON COUNTY, GEORGIA

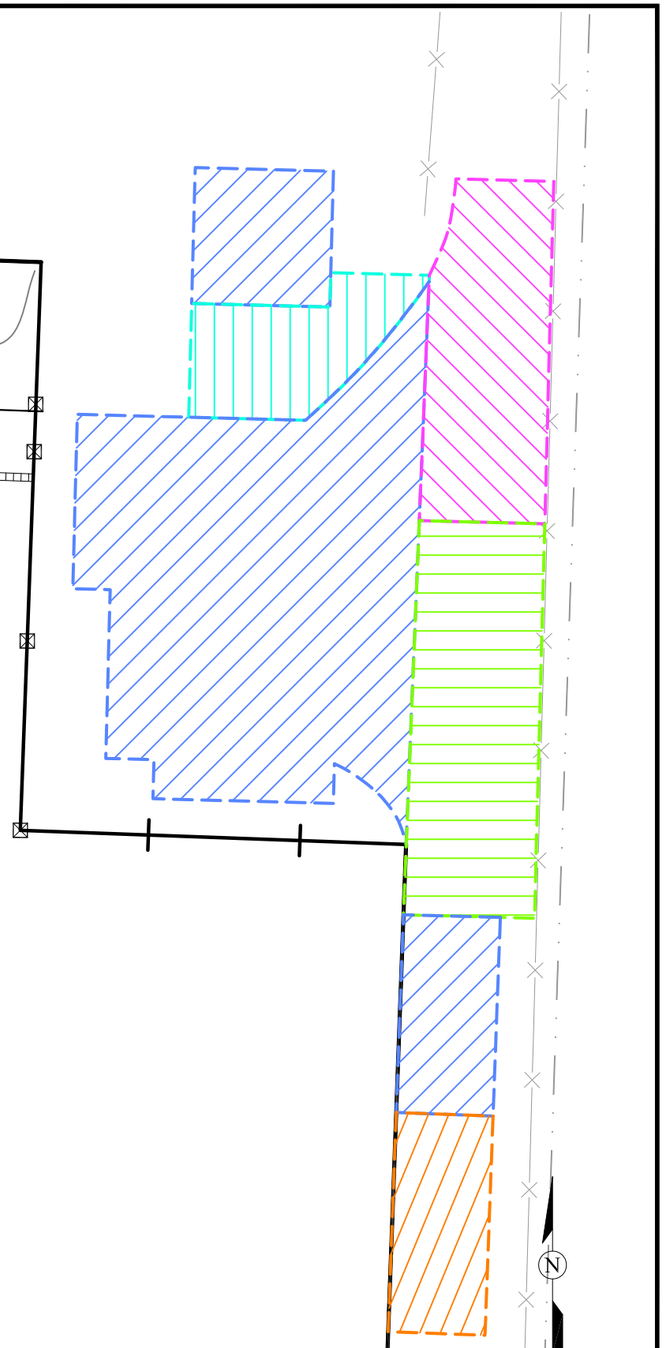
FIGURE
5-6

LEGEND

- FLOOR DRAIN
- SUMP
- STAIRS
- FENCE LINE
- PROPERTY LINE
- BUILDING STRUCTURAL COLUMN IN IMMEDIATE AREA OF SOIL REMOVAL
- APPROXIMATE EXTENT OF EXCAVATION TO 5 FT. DEPTH
- APPROXIMATE EXTENT OF EXCAVATION TO 7 FT. DEPTH
- APPROXIMATE EXTENT OF EXCAVATION TO 9 FT. DEPTH
- APPROXIMATE EXTENT OF EXCAVATION TO 11 FT. DEPTH
- APPROXIMATE EXTENT OF EXCAVATION TO 13 FT. DEPTH







ERM Environmental Resources Management

AREAS O AND S FINAL LIMITS OF EXCAVATION
VOLUNTARY COMPLIANCE STATUS REPORT
I. SCHNEID FACILITY
ATLANTA, FULTON COUNTY, GEORGIA

FIGURE
5-7

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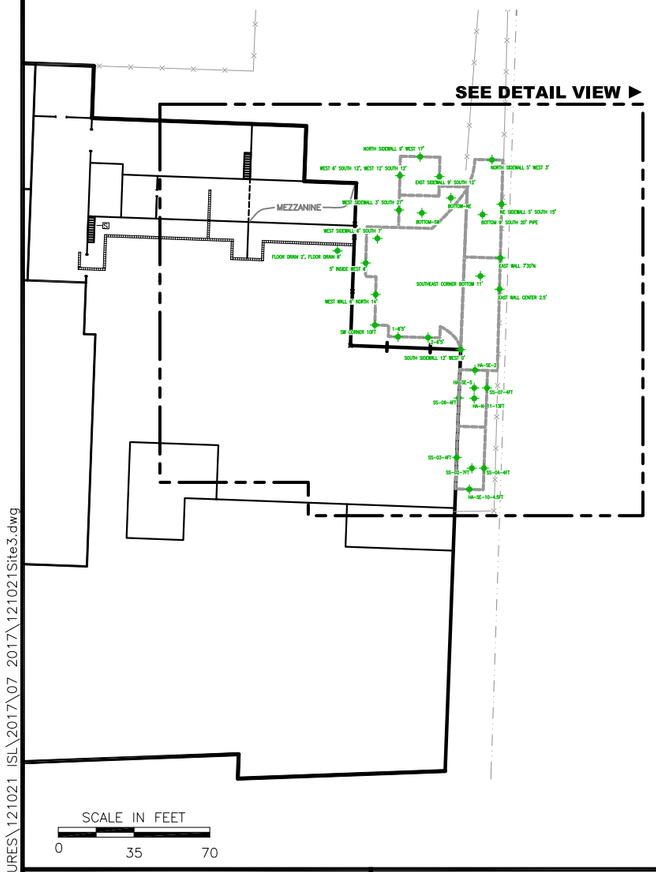
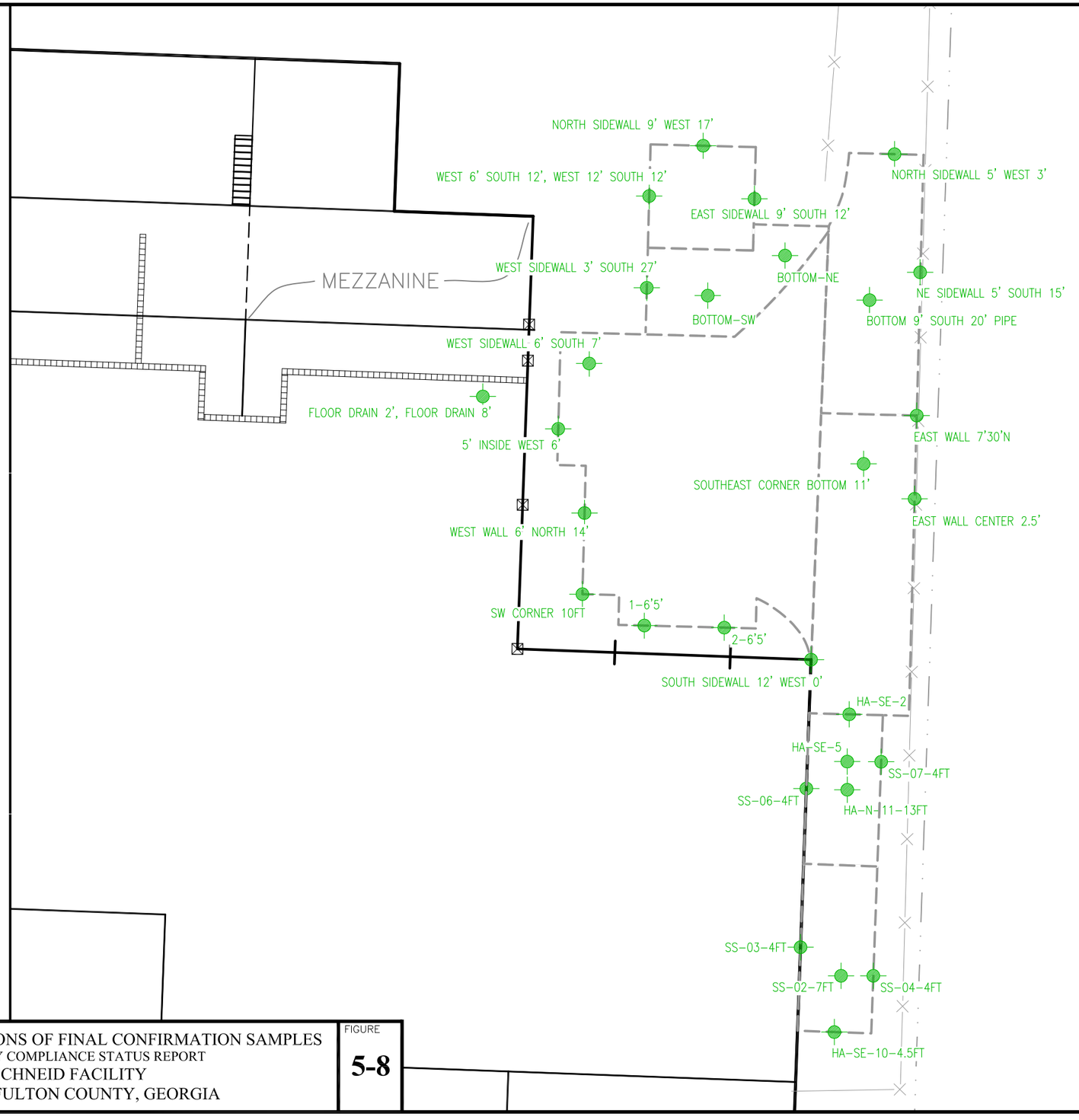
LEGEND

- FINAL SOIL CONFIRMATION SAMPLE
- FLOOR DRAIN
- SUMP
- STAIRS
- FENCE LINE
- PROPERTY LINE
- BUILDING STRUCTURAL COLUMN IN IMMEDIATE AREA OF SOIL REMOVAL
- APPROXIMATE EXTENT OF EXCAVATION – VARIOUS DEPTHS





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ERM Environmental Resources Management

AREAS O AND S LOCATIONS OF FINAL CONFIRMATION SAMPLES
VOLUNTARY COMPLIANCE STATUS REPORT
I. SCHNEID FACILITY
ATLANTA, FULTON COUNTY, GEORGIA

FIGURE
5-8

Tax Parcel Map and Legal Description for the Site

Appendix A

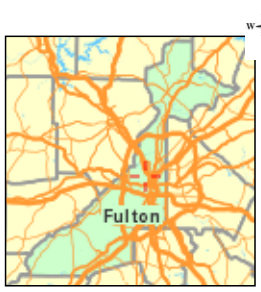
July 27, 2017
Project No. 0121021
Former I. Schneid Facility

Legal Description for Tax Parcel ID Number 17-0188-0002-017-0

Commencing at a ½" iron pin and plastic cap placed at the intersection of the north right-of-way line of Culpepper Street (having a 50 foot right-of-way) with the east right-of-way line of Fairmont Avenue (having a 50 foot right-of-way), thence running along the east right-of-way line of Fairmont Avenue North 00°37'27" East, a distance of 125.56 feet to a point and the **POINT OF BEGINNING**; thence running along said right-of-way line of Fairmont Avenue, North 00°37'27" East, a distance of 627.61 feet to ½" rebar found bent; thence leaving said right-of-way line and running along the south property line of property now or formerly owned by Jonathan M. Bryant, South 89°28'22" East, a distance of 299.90 feet to a ½" rebar found; thence running along the west property lines of property now or formerly owned by William S. Whitmire, Jr., 1366 Real Estate Group, LLC. and Weiss Real Estate Investments, L.P., South 00°41'53" West, a distance of 442.77 feet to a ½" iron pin and cap placed; thence running along the south property line of property now or formerly owned by Weiss Real Estate Investments, L.P., North 88°10'22" East, a distance of 255.50 feet to a ½" iron pin and cap placed on the westerly right-of-way line of English Street (having a 60 foot right-of-way); thence running along said right-of-way line of English Street, South 36°07'17" West, a distance of 107.88 feet to a point; thence leaving said right-of-way line of English Street the following courses and distances: South 77°49'35" West, a distance of 56.31 feet; South 68°53'49" West, a distance of 36.43 feet; South 62°02'56" West, a distance of 51.14 feet; South 65°06'34" West, a distance of 26.63 feet; South 79°19'28" West, a distance of 41.82 feet; South 86°59'24" West, a distance of 34.27 feet; South 86°07'56" West, a distance of 49.24 feet; South 78°52'12" West, a distance of 61.51 feet; South 78°50'41" West, a distance of 43.02 feet; South 80°20'15" West, a distance of 58.51 feet; South 89°58'06" West, a distance of 50.06 feet to a point and the **POINT OF BEGINNING**.

The above described property contains 4.750 acres (206,619 sq. ft.) and being Parcel 2 as depicted on that ALTA/ACSM Land Title and Topographic Survey, dated December 31 2015, prepared by Metro Engineering and Surveying Company, Inc. of McDonough, Georgia, James R. Green, G.R.L.S. #2543 (Job No. 13767).

Fulton County Assessor			
Parcel: 17 018800020170 Acres: 3.09			
Name:	ENGLISH ASSET HOLDING LLC	Land Value:	1251500
Site:	1429 FAIRMONT AVE	Building Value:	248500
Sale:		Misc Value:	
Mail:	2100 POWERS FERRY RD STE 300 ATLANTA, GA 30339	Total Value:	1500000



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Free Product Monitoring/Recovery and Surface Water Protection Report

Appendix B

July 27, 2017
Project No. 0121021
Former I. Schneid Facility

Environmental Resources Management

3200 Windy Hill Road, SE
Suite 1500W
Atlanta, GA 30339
678.486.2700
404.745.0103 (fax)

February 9, 2017
0121021

Mr. David Brownlee
Mr. Barrett Fischer
Response and Remediation Program
Georgia Environmental Protection Division
2 Martin Luther King, Jr. Drive, SE
Suite 1054, East Tower
Atlanta, Georgia 30334-9000

Subject: Former I. Schneid, Atlanta, Georgia, HSI Site No. 10753

Dear Messrs. Brownlee and Fischer:

This letter is being submitted on behalf of I. S. Liquidation, LLC (I. Schneid) for the referenced property (Site). It is intended to update you concerning activities completed at the Site since the submittal of the First Semi-Annual Progress Report in September 2016. Since that time, we have completed the following work:

- Continued to conduct free phase product monitoring at wells MW-19 and MW-20, which are located in the former source area (see Figure 1).

- Continued to recover free phase product in the former source area. This has been done using absorbent socks and by means of a high vacuum extraction (HVE) event.

- Conducted ground water quality monitoring at wells MW-19 and MW-20 subsequent to the HVE event.

This work has been conducted as part of our efforts regarding two issues that GAEPD has stated need to be addressed while the Site is in the Voluntary Remediation Program prior to delisting from the Hazardous Sties Inventory (HSI). The first of these issues is the presence of free phase product in the former source area. The second concerns how dissolved phase contaminant concentrations in ground water at the Site might affect Woodall Creek.

FREE PHASE MONITORING AND RECOVERY

Free phase product has been detected on top of the water table at the Site in monitoring wells MW-19 and MW-20 (Figure 1). These two wells are located at or in the immediate vicinity of the former source area, where significant remediation, including extensive soil excavation and off-Site disposal, has taken place.

A summary of the results of the free phase monitoring conducted at wells MW-19 and MW-20 from March 2015 through January 2017 is provided in Table 1. During this time period, two technologies were used to assess practicability of free phase product recovery. They included:

- Product absorbing socks; and
- High vacuum extraction (HVE).

Specifically, product absorbing socks were placed in MW-19 and MW-20 from approximately February 2016 to October 2016. The socks were periodically changed out during this time. The HVE event was conducted at these wells on October 19, 2016. A trace amount of free phase product was recovered by the absorbent socks, estimated at less than 0.25 gallons. The HVE event generated over 340 gallons of liquid, of which only an estimated 0.9-gallon was free phase product, which was described as "diesel like." A copy of the HVE report is provided in Attachment A.

The observed thickness of free phase product measured in a ground water monitoring well is dependent on the pressure and spatial distribution of product in the subsurface. As ground water levels decrease, free product trapped in pore spaces of soils that are typically saturated can drain into a well; therefore, the thickness of product measured in-well is typically exaggerated in comparison to the actual thickness present in the aquifer by an estimated factor of 2-10[1], with fine-grained soils such as those present at the Site producing more exaggeration than coarse-grained soils[2]. The in-well measured thickness of product can be referred to as "apparent thickness," as it is not considered to be representative of the true thickness present in the aquifer.

As shown in Table 1, the apparent thickness of free phase product at wells MW-19 and MW-20 during the monitoring period ranged from 0 to 0.22 feet and from 0 to 0.11 feet, respectively, with the highest measured apparent thicknesses occurring when ground

[1] Mercer, J.W., and R. M. Cohen, 1990. "*A Review of Immiscible Fluids in the Subsurface: Properties, Models, Characterization and Remediation*." Journal of Contaminant Hydrology 6: 107-63.

[2] U.S. EPA, 1996. "*How to Effectively Recover Free Product at Leaking Underground Storage Tank Sites: A Guide for State Regulators*". EPA 510-R-96-001.

water levels were lowest (September – November 2016). The average apparent thickness of free phase product at the wells during the monitoring period was 0.05 feet and 0.01 feet, respectively. A representative photograph of the free phase product taken at MW-19 is shown below.

The following observations and conclusions concerning free phase product at the Site are made based on the results of the monitoring and recovery conducted at MW-19 and MW-20 discussed above:

- The monitoring results indicate that the presence and apparent thickness of free product at MW-19 and MW-20 are dependent on ground water levels. This indicates that the product is residual in nature (i.e., non-mobile product entrained in soil pore space) rather than a lense of mobile free phase product.
- Free product transmissivity is considered a better indicator of the feasibility of product recoverability than apparent thickness[3]; however, the amount of product observed at MW-19 and MW-20 is considered insufficient to conduct a bail-down test to estimate transmissivity. Further, any transmissivity test results would be obfuscated by the observed correlation between water table fluctuations at the Site and apparent thickness.
- The extent of residual product at the Site appears localized to the former source area and conditions are not indicative of a migrating body.
- The average apparent thickness of free product remaining in the source area measured over a nearly 2-year period is less than 0.05 ft and, due to the nature of product with a density less then water and as noted

[3] ITRC (Interstate Technology & Regulatory Council), 2009. *Evaluating LNAPL Remedial Technologies for Achieving Project Goals*. LNAPL-2. http://www.itrcweb.org/GuidanceDocuments/LNAPL-2.pdf

above, this thickness may exaggerate the true thickness in the aquifer by a factor of 2-10.

- The use of absorbent socks resulted in minimal free product recovery as the remaining product is primarily trapped in soil pore spaces as immobile residue, with minimal accumulation in the well occurring primarily as the result of drainage from pore spaces during periods of low ground water levels.
- The HVE event resulted in minimal free product recovery as the product is primarily trapped in soil pore spaces as immobile residue and appears to be limited in extent, as evidenced by the low ratio of product to ground water recovered during the event (i.e., < 0.3% of recovered liquid was identified as diesel-like product).

SURFACE WATER PROTECTION

Ground water quality data for the Site are summarized in Table 2. Monitoring well locations are shown on Figure 1. Based on a review of the most recent data for each well, seven regulated substances have been identified in ground water at concentrations that exceed the approved Risk Reduction Standards (RRS) for the Site. The exceedances are limited to four wells, MW-17, MW-19, MW-20 and ET-MW-4, and are summarized in the following table. All of these wells are located in the immediate vicinity of the former location of the solvent mixing room, which was the primary source area at the Site.

Well ID	Date	Benzene	Chlorobenzene	Naphthalene	Methylene Chloride	Pentachlorophenol	2,4-Dichlorophenol	Vinyl Chloride
	GW RRS	**5.5**	**100**	**20**	**55**	**1**	**20**	**2**
	GA In-Stream Water Quality Standard	**51**	**1,600**	**NE***	**590**	**3**	**290**	**2.4**
	Region 4 Surface Water Screening Values for Hazardous Waste Sites**			**21**				
MW-20	11/7/2016	23	-	**330**	120	**160**	**1,100**	**3.9**
MW-19	11/7/2016	-	-	**250**	-	**46**	-	-
MW-17	8/15/2015	5.6	-	**200**	-	-	-	-
ET-MW-4	12/7/2015	-	1,300	-	-	-	-	-

Notes:
* NE – Not Established.
**EPA Region 4 Ecological Risk Assessment Supplemental Interim Guidance Draft, September 2015.

Ground water from the following monitoring wells, located downgradient of the source area between the source area and Woodall Creek, has not had exceedances of RRS for any regulated substance over the last 10 years of monitoring:

ET-MW-5	ET-MW-9
ET-MW-8	ET-MW-13
ET-MW-8D	ET-MW-12

In addition, with the exception of ET-MW-8, these wells have not had any detections of any regulated compound above the laboratory reporting limit over the last 10 years.

Georgia in-stream water quality standards established by Rule 391-3-6-.03 are also provided in the table shown above. A Georgia in-stream water quality standard has not been established for naphthalene, so the USEPA Region 4 surface water screening value is shown in the table. Of the contaminants that exceed their ground water RRS, only pentachlorophenol, 2,4-dichlorophenol, and vinyl chloride are present in the source area at concentrations that exceed their Georgia in-stream water quality standard. The concentrations of naphthalene at MW-17, MW-18, and MW-19 exceed the Region 4 surface water screening value.

Surface Water Protection - Contaminant Transport Modeling

Extensive remediation of both unsaturated soil and ground water has been conducted at the Site and reported previously to GAEPD in the form of Corrective Action Progress Reports. The remediation activities have directly affected contaminant concentrations in the majority of the monitoring well network. The remediation history for the Site is summarized in the following table.

Date	Remediation Activity
2005	Soils in Area P remediated using a combination of heat-catalyzed persulfate injections.
2005 - 2006	Soils in Area B remediated using a combination of heat-catalyzed persulfate injections and excavation. Soils in Area L remediated using a combination of heat-catalyzed persulfate injections.
2005 - 2014	Soils in Area O and S were remediated using a combination of heat-catalyzed persulfate injections, soil vapor extraction and excavation.
2006 - 2012	Ground water in source area remediated using air sparge/soil vapor extraction.

Because of the extensive remediation history, the Site ground water data would not properly fit, validate, and calibrate to a simplified contaminant transport equation model such as BioChlor, as would typically be recommended to evaluate surface water protection requirements. As an alternative to utilizing a contaminant transport equation model, ERM utilized a more conservative mass balance approach to evaluating how source area ground water concentrations might affect surface water quality.

Surface Water Protection - Mass Balance Approach

Ground water elevation monitoring has shown that the direction of ground water movement at the Site is generally southwest. Based on a review of USGS topographic map information (USGS 7.5 Minute Topographic Quadrangle, Northwest Atlanta, Georgia, 1993) and Google Earth imagery, Woodall Creek is located approximately 1,000 feet southwest of the source area at the Site. In order to determine if the concentration of contaminants that exceed ground water RRS in the source area could result in exceedances of in-stream water quality standards in Woodall Creek, the potential impacts to Woodall Creek were evaluated using a mass balance equation that assumes the concentrations of contaminants in the source area are directly discharging to the creek. This is a conservative approach, as the creek is approximately 1,000 feet southwest of the source area and the additional factors of dilution, dispersion, advection, and attenuation, which serve to reduce contaminant concentrations downgradient of the source, are not factored into the calculations. As such, the mass balance approach is significantly more conservative than traditional contaminant transport modeling approaches.

The mass balance equation shown below was used to calculate the concentration of naphthalene, pentachlorophenol, 2,4-dichlorophenol, and vinyl chloride that could remain in the source area ground water and be protective of surface water quality (i.e. the concentrations of naphthalene, pentachlorophenol, 2,4-dichlorophenol, and vinyl chloride that would not result in an exceedance of the in-stream surface water quality standard).

Mass Balance Equation: Csw = Cgs[Qgw/(Qgw+Qsw)][4]

Input Variable	Description	Units	Value	Comment
Csw	surface water contaminant concentration (µg/L)	µg/L	Variable	Set to GA in-stream surface water quality standard for PCP, 2,4-dimethylphenol, and vinyl chloride and to Region 4 screening value for naphthalene
Cgs	ground water contaminant concentration at discharge	µg/L	---	Calculated by equation
Qsw	surface water flow rate	ft3/sec	0.46	USGS Stream Gauge data from Woodall Creek – lowest documented flow rate*
Qgw	ground water discharge flow rate	ft3/sec	0.0025	Calculated based on Qgw = V x l x h
V	ground water velocity	ft/day	0.11	Calculated using Site specific gradient and hydraulic conductivity data (see Attachment B)
l	Plume width at discharge point	ft	100	Assumed plume width at Woodall Creek
h	Plume thickness at discharge point	ft	20	Conservative estimate of the thickness of the shallow aquifer at Woodall Creek

*https://waterdata.usgs.gov/usa/nwis/dvstat/?site_no=02336313&por_02336313_36628=862176,00060,36628

Similar calculations for benzene, chlorobenzene, and methylene chloride were not made because their source area concentrations in ground water are less than their respective Georgia in-stream water quality standard.
Based on the mass balance equation and input parameters listed above, contaminant concentrations that can remain in ground water immediately adjacent to the stream and not result in an exceedance of the surface water quality standard are shown in the table below. For comparison sake, maximum concentrations in the source area are also shown in the table.

[4] USEPA. *NPDES Permit Writer's Manual*. September 2010. http://www.epa.gov/npdes/pubs/pwm_2010.pdf.

Contaminant	Surface Water Quality Standard (µg/L)	Concentrations Protective of Surface Water Quality Standard (µg/L)	Maximum Concentrations in Source Area (µg/L)
Naphthalene	21	3,855	330
Pentachlorophenol	3	555	160
2,4-Dichlorophenol	290	53,650	1,100
Vinyl chloride	2.4	444	3.9

Based on the results of the mass balance calculations, surface water quality standards in the Woodall Creek will not be exceeded by the contaminant concentrations present in the source area, even if the source area concentrations were directly discharged into the creek. Again, the source area is approximately 1,000 feet from Woodall Creek and natural attenuation mechanisms will decrease the contaminant concentrations as ground water migrates away from the source area. Additionally, the RRS for ground water have not been exceeded in any of the monitoring wells located downgradient of the source area in the past 10 years, indicating that contaminant concentrations are attenuating to concentrations below the RRS as ground water migrates from the source area. Furthermore, with the exception of ET-MW-8, no regulated substances have been identified in any of the downgradient wells above the laboratory detection limits in the past 10 years. Substantial remediation efforts have been conducted to remove the source area and reduce contaminant concentrations. Because the source area has effectively been removed, dissolved phase contaminant concentrations should continue to decrease over time. Based on this information, it is concluded that regulated substances in the ground water at the source area of the Site will not adversely impact Woodall Creek.

SUMMARY AND RECOMMENDATIONS

Based on the information discussed above, we believe that residual free phase product and surface water quality have been adequately addressed at the Site. Because of this and the fact that previous work showed that the vapor intrusion pathway is not complete, we recommend that it is now time to move to delist the Site from the HSI. To this end, we would like to request a meeting with you to discuss the details of a final report that GAEPD may feel is necessary prior to delisting.

We look forward to meeting with you at your earliest convenience. In the interim, please contact us with any questions or comments you may have concerning the information presented herein.

Sincerely,

Adria L. Reimer, P.G. #2004
GA Professional Geologist

Jeffrey N. Bilkert
Principal

cc: Steve Chapman

Attachments
Tables 1 and 2
Figure 1
A – HVE Report
B – Hydraulic Conductivity and Ground Water Flow Velocity Calculations

Tables

February 9, 2017
Project No. 0121021
Former I. Schneid, Atlanta, Georgia, HSI Site No. 10753

Table 1
Free Product Monitoring Results for Wells MW-19 and MW-20
Former I. Schneid Facility
HSI Site No. 10753
Atlanta, Fulton County, Georgia

Well	Date	Screened Interval Depth (feet BTOC)	Depth to Free Product (feet BTOC)	Depth to Groundwater (feet BTOC)	Free Product Thickness (feet)
MW-19	3/20/2015	12-22	NP	14.19	0
	8/24/2015	12-22	NP	14.43	0
	12/7/2015	12-22	13.51	13.52	0.01
	12/18/2015	12-22	13.74	13.77	0.03
	12/23/2015	12-22	13.42	13.43	0.01
	12/28/2015	12-22	13.20	13.21	0.01
	1/8/2016	12-22	13.05	13.06	0.01
	2/26/2016	12-22	13.01	13.14	0.13
	3/16/2016	12-22	NP	12.73	0
	6/7/2016	12-22	12.58	12.60	0.02
	6/24/2016	12-22	NP	12.77	0
	8/31/2016	12-22	13.63	13.72	0.09
	9/16/2016	12-22	14.17	14.36	0.19
	10/3/2016	12-22	14.03	14.18	0.15
	10/19/2016	12-22	14.33	14.55	0.22
	11/17/2016	12-22	15.33	15.35	0.02
	12/1/2016	12-22	15.235	15.24	0.005
	12/16/2016	12-22	15.035	15.04	0.005
	1/12/2017	12-22	14.72	14.79	0.07
MW-20	12/7/2015	9-24	NP	12.94	0
	12/18/2015	9-24	NP	12.98	0
	12/23/2015	9-24	12.49	12.50	0.01
	12/28/2015	9-24	12.54	12.55	0.01
	1/8/2016	9-24	NP	12.38	0
	2/26/2016	9-24	trace	12.01	trace
	3/16/2016	9-24	NP	12.02	0
	6/7/2016	9-24	NP	12.75	0
	6/24/2016	9-24	NP	13.23	0
	8/31/2016	9-24	14.23	14.25	0.02
	9/16/2016	9-24	NP	14.68	0
	10/3/2016	9-24	NP	15.52	0
	10/19/2016	9-24	14.92	15.03	0.11
	11/17/2016	9-24	15.47	15.49	0.02
	12/1/2016	9-24	NP	14.96	0.00
	12/16/2016	9-24	14.83	14.83	0.002
	1/12/2017	9-24	NP	14.34	0

Notes:
1. BTOC = Below Top of Casing.
2. NP = Not Present.

Table 2
Ground Water Quality Data (µg/L)
Former I. Schneid Facility
HSI Site 10753
Atlanta, Fulton County, Georgia

Well ID	Date Installed	Date Sampled	Compounds Detected (µg/L)																									
			Acetone	Benzene	Chlorobenzene	cis-1,2-Dichloroethene	1,4-Dichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,1-Dichloroethane	1,1-Dichloroethene	1,4 Dioxane	Ethylbenzene	Isopropylbenzene	Naphthalene	1,1,1-Trichloroethane	Trichloroethene	Tetrachloroethene	Methyl tert -butyl ether	Methylene Chloride	Toluene	Xylenes	Vinyl Choride	2,4-D	Acenaphthene	Dibenzofuran	Pentachlorophenol	2,4-Dichlorophenol
RRS (Type)			***1***	***2***	***1***	***2***	***1***	***1***	***1***	***1***	***2***	***1***	***1***	***2***	***1***	***2***	***1***	***1***	***1***	***2***	***1***	***1***	***1***	***1***	***1***		***2***	***1***
Applicable RRS			***4,000***	***5.50***	***100***	***31***	***75***	***600***	***600***	***4,000***	***103***	***0***	***700***	***200***	***20***	***1,011***	***5***	***5***	***0***	***55***	***1,000***	***10,000***	***2***	***70***	***2,000***		***1***	***20***
ET-MW-4	5/2/2002	Jun-05	<25	**25.60**	**10,100**	< 1	**142**	341	11.6	< 1	< 1	NA	21	6.6	12.5	< 1	<1	<1	NA	<2.5	5.3	10.7		<25	<10	<10	<10	<10
		Mar-07		< 5	< 5	< 5	< 10	< 10		< 5	< 5	NA	NA	< 5	NS	< 5	NA	NA	NA					NA			NA	NA
		Nov-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Mar-09	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}		NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}
		Jun-09	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}		NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}
		Sep-09	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}		NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}
		Dec-09	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}		NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}
		Dec-10	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}		NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}
		Jul-11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Jul-12	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		May-14	<50	< 5	**1200**	NA	16	180	<5	< 5	< 5	NA	< 5	< 5	< 5	< 5	< 5	NA	NA	<5	<5	<5		NA	<10	NA	<25	<10
		Oct-14	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}		NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}
		Mar-15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Aug-15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Dec-15	<50	<5	**1300**	<5	21	160	<5	<5	<5	NA	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5		<2	<10	<10	<25	<25
ET-MW-5	5/2/2002	Jun-05	<25	< 1	< 1	< 1	<1	<1	<1	< 1	< 1	NA	<1	< 1	<5	< 1	<1	<1	NA	<2.5	<1	<1		<5	<11.1	<11.1	<11.1	<11.1
		Mar-07		< 5	< 5	< 5	< 5	< 5		< 5	< 5	NA	NA	< 5	NA	< 5	NA	NA	NA					NA			NA	NA
		Nov-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Mar-09	<50	< 5	< 5	< 5	< 5	< 5	<5	9.7	< 5	NA	<5	< 5	<5	< 5	<5	<5	NA	<5	<5	<5		NA	NA	NA	NA	NA
		Jun-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Sep-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Dec-09	<50	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	<150	<5	< 5	NA	< 5	< 5	< 5	< 5	< 5	< 5	< 5		NA	NA	NA	NA	NA
		Dec-10	<50	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	<150	<5	< 5	<5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		NA	NA	NA	NA	NA
		Jul-11	<50	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	< 150	< 5	< 5	< 5	< 5	< 5	< 5	<5	<5	<5	<5		NA	NA	NA	NA	NA
		Jul-12	<50	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	< 150	< 5	< 5	< 5	< 5	< 5	< 5	<5	<5	<5	<5		NA	NA	NA	NA	NA
		May-14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Oct-14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Mar-15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Aug-15	<50	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	< 150	< 5	< 5	< 5	< 5	< 5	< 5	< 5	<5	<5	<5		NA	NA	NA	NA	NA
ET-MW-6	10/28/2002	Jun-05	<25	< 1	< 1	< 1	<1	<1	<1	< 1	< 1	NA	<1	< 1	<5	< 1	<1	<1	NA	<2.5	<1	<1		<5	<10	<10	<10	<10
		Mar-07		< 5	< 5	< 5	< 5	< 5		< 5	< 5	NA	NA	< 5	NA	< 5	NA	NA	NA					NA			NA	NA
		Nov-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Mar-09	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}		NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}
		Jun-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Sep-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Dec-09	<50	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	<150	<5	< 5	NA	< 5	< 5	< 5	< 5	< 5	< 5	< 5		NA	NA	NA	NA	NA
		Dec-10	<50	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	<150	<5	< 5	<5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		NA	NA	NA	NA	NA
		Jul-11	<50	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	< 150	< 5	< 5	< 5	< 5	< 5	< 5	<5	<5	<5	<5		NA	NA	NA	NA	NA
		Jul-12	<50	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	< 150	< 5	< 5	< 5	< 5	< 5	< 5	<5	<5	<5	<5		NA	NA	NA	NA	NA
		May-14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Oct-14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Mar-15	<50	< 5	33	NA	< 5	17	<5	< 5	< 5	NA	< 5	< 5	9.3	< 5	< 5	NA	NA	<5	<5	<5		NA	<10	NA	< 25	< 10
		Aug-15	<50	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	< 150	< 5	< 5	< 5	< 5	< 5	< 5	< 5	<5	<5	<5		NA	NA	NA	NA	NA
ET-MW-8	10/24/2002	Jun-05	<25	**63**	2	3	6	57	1	38	13	NA	21	16	**167**	< 1	4	<1	NA	<2.5	4	30		<100	11	<10	<10	<10
		Mar-07		**38**	< 5	< 5	< 5	29		36	7	NA	NA	7	NA	< 5	NA	NA	NA					NA			NA	NA
		Nov-08	<50	**14**	< 5	< 5	< 5	27	<5	100	25	NA	<5	6	<5	< 5	<5	<5	NA	<5	<5	<5		NA	NA	NA	NA	NA
		Mar-09	<50	< 5	< 5	< 5	< 5	7	<5	130	19	NA	<5	< 5	<5	< 5	<5	<5	NA	<5	<5	<5		NA	NA	NA	NA	NA
		Jun-09	<50	< 5	< 5	< 5	< 5	11	<5	54	< 5	<150	<5	< 5	NA	< 5	< 5	< 5	< 5	< 5	< 5	<10		NA	NA	NA	NA	NA
		Sep-09	<50	**7**	< 5	< 5	8	55	<5	130	14	<150	<5	< 5	NA	< 5	< 5	< 5	< 5	< 5	< 5	< 5		NA	NA	NA	NA	NA
		Dec-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Dec-10	<50	< 5	< 5	< 5	7	54	<5	78	< 5	<150	<5	< 5	5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		NA	NA	NA	NA	NA
		Jul-11	<50	< 5	< 5	< 5	< 5	18	<5	39	< 5	<150	<5	< 5	<5	< 5	<5	<5	<5	<5	<5	<5		NA	NA	NA	NA	NA
		Jul-12	<50	< 5	< 5	< 5	13	86	<5	70	< 5	<150	<5	< 5	<5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		NA	NA	NA	NA	NA
		May-14	<50	< 5	< 5	NA	9	78	<5	35	< 5	NA	<5	< 5	<5	< 5	<5	NA	NA	<5	<5	<5		NA	<10	NA	<25	<10
		Oct-14	<50	<5	<5	NA	<5	39	<5	19	<5	NA	<5	<5	<5	<5	<5	NA	NA	<5	<5	<5		NA	<10	NA	<25	<10
		Mar-15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Aug-15	<50	<5	<5	<5	10	92	<5	28	<5	<150	<5.0	<5.0	5	<5.0	<5.0	<5.0	<5.0	<5	<5	<5		NA	NA	NA	NA	NA

Table 2
Ground Water Quality Data (µg/L)
Former I. Schneid Facility
HSI Site 10753
Atlanta, Fulton County, Georgia

Well ID	Date Installed	Date Sampled	Compounds Detected (µg/L)																								
			Acetone	Benzene	Chlorobenzene	cis-1,2-Dichloroethene	1,4-Dichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,1-Dichloroethane	1,1-Dichloroethene	1,4 Dioxane	Ethylbenzene	Isopropylbenzene	Naphthalene	1,1,1-Trichloroethane	Trichloroethene	Tetrachloroethene	Methyl tert -butyl ether	Methylene Chloride	Toluene	Xylenes	Vinyl Choride	2,4-D	Acenaphthene	Dibenzofuran	Pentachlorophenol	2,4-Dichlorophenol
RRS (Type)			***1***	***2***	***1***	***2***	***1***	***1***	***1***	***1***	***2***	***1***	***1***	***2***	***1***	***2***	***1***	***1***	***1***	***2***	***1***	***1***	***1***	***1***	***1***		***2***	***1***
Applicable RRS			***4,000***	***5.50***	***100***	***31***	***75***	***600***	***600***	***4,000***	***103***	***0***	***700***	***200***	***20***	***1,011***	***5***	***5***	***0***	***55***	***1,000***	***10,000***	***2***	***70***	***2,000***		***1***	***20***
ET-MW-8D	12/30/2002	Jun-05	<25	< 1	< 1	< 1	<1	<1	<1	< 1	< 1	NA	<1	< 1	<5	< 1	<1	<1	NA	<2.5	<1	<1		<5	<11.1	<11.1	<11.1	<11.1
		Mar-07		< 5	< 5	< 5	< 5	< 5		< 5	< 5	NA	NA	< 5	NA	< 5	NA	NA	NA					NA			NA	NA
		Nov-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Mar-09	<50	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	NA	<5	< 5	<5	< 5	< 5	< 5	NA	< 5	< 5	< 5		NA	NA	NA	NA	NA
		Jun-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Sep-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Dec-09	<50	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	<150	<5	< 5	NA	< 5	< 5	< 5	< 5	< 5	< 5	< 5		NA	NA	NA	NA	NA
		Dec-10	<50	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	<150	<5	< 5	<5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		NA	NA	NA	NA	NA
		Jul-11	<50	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	< 150	< 5	< 5	< 5	< 5	< 5	< 5	< 5	<5	<5	<5		NA	NA	NA	NA	NA
		Jul-12	<50	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	< 150	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		NA	NA	NA	NA	NA
		May-14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Oct-14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Mar-15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Aug-15	<50	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	< 150	< 5	< 5	< 5	< 5	< 5	< 5	< 5	<5	<5	<5		NA	NA	NA	NA	NA
ET-MW-9	10/24/2002	Jun-05	<25	< 1	< 1	< 1	<10	< 10	<1	< 1	< 1	NA	<1	< 1	<5	< 1	<1	<1	NA	<2.5	<1	<1		<5	<10	<10	<10	<10
		Mar-07		< 5	< 5	< 5	< 5	< 5		< 5	< 5	NA	NA	< 5	NA	< 5	NA	NA	NA					NA			NA	NA
		Nov-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Mar-09	<50	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	NA	<5	< 5	<5	< 5	<5	<5	NA	<5	<5	<5		NA	NA	NA	NA	NA
		Jun-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Sep-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Dec-09	<50	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	<150	<5	< 5	NA	< 5	< 5	< 5	< 5	< 5	< 5	< 5		NA	NA	NA	NA	NA
		Dec-10	<50	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	<150	<5	< 5	<5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		NA	NA	NA	NA	NA
		Jul-11	<50	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	< 150	< 5	< 5	< 5	< 5	< 5	< 5	< 5	<5	<5	<5		NA	NA	NA	NA	NA
		Jul-12	<50	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	< 150	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		NA	NA	NA	NA	NA
		May-14	<50	< 5	< 5	NA	< 5	< 5	<5	< 5	< 5	NA	< 5	< 5	< 5	< 5	< 5	<5	NA	NA	<5	<5	<5		NA	<10	NA	<25	<10
		Oct-14	<50	<5	<5	NA	<5	<5	<5	<5	<5	NA	<5	<5	<5	<5	<5	NA	NA	<5	<5	<5		NA	<10	NA	<25	<10
		Mar-15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Aug-15	<50	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	< 150	< 5	< 5	< 5	< 5	< 5	< 5	< 5	<5	<5	<5		NA	NA	NA	NA	NA
ET-MW-10	12/23/2002	Jun-05	<25	2.50	< 1	< 1	<1	<1	**<1**	< 1	< 1	NA	**<1**	< 1	<5	< 1	<1	<1	NA	<2.5	<1	<1		<5	<10	<10	<10	<10
		Mar-07		**24.00**	< 5	< 5	< 5	< 5		< 5	< 5	NA	NA	< 5	NA	< 5	NA	NA	NA					NA			NA	NA
		Nov-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Mar-09	<50	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	NA	<5	< 5	<5	< 5	<5	<5	NA	<5	<5	<5		NA	NA	NA	NA	NA
		Jun-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Sep-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Dec-09	<50	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	<150	<5	< 5	NA	< 5	<5	<5	<5	<5	<5	<5		NA	NA	NA	NA	NA
		Dec-10	<50	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	<150	<5	< 5	<5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		NA	NA	NA	NA	NA
		Jul-11	<50	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	< 150	< 5	< 5	< 5	< 5	< 5	< 5	<5	<5	<5	<5		NA	NA	NA	NA	NA
		Jul-12	<50	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	< 150	< 5	< 5	< 5	< 5	< 5	< 5	<5	<5	<5	<5		NA	NA	NA	NA	NA
		May-14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Oct-14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Mar-15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Aug-15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Dec-15	<50	<5	<5	<5	<5	<5	<5	<5	<5	NA	<5	<5	NA	<5	<5	<5	<5	<5	<5	<5		NA	NA	NA	NA	NA
ET-MW-11	12/27/2002	Jun-05	<25	**46**	29	3	**98**	260	25	47	30	NA	635	53	**1,010**	77	**10**	<1	NA	17	141	2,670		<100	51	22	<10	<10
		Mar-07		< 5	< 5	< 5	< 10	65		< 5	< 5	NA	NA	< 5	NA	< 5	NA	NA	NA					NA			NA	NA
		Nov-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Mar-09	<50	< 5	< 5	< 5	< 10	< 10	<10	< 5	< 5	NA	<5	< 5	<10	< 5	<5	<5	NA	<5	<5	<5		<2	<10	<10	<1	<10
		Jun-09	<50	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	<150	<5	< 5	NA	< 5	>5	<5	<5	<5	<5	<10		NA	NA	NA	NA	NA
		Sep-09	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}		NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}
		Dec-09	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}		NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}
		Dec-10	<50	< 5	< 5	< 5	< 5	5	<5	< 5	< 5	<150	<5	< 5	6	< 5	< 5	< 5	< 5	< 5	< 5	< 5		NA	NA	NA	NA	NA
		Jul-11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Jul-12	<50	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	< 150	< 5	< 5	< 5	< 5	< 5	< 5	<5	<5	<5	<5		<2	<10	<10	<25	<10
		May-14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Oct-14	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}		NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}
		Mar-15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Aug-15	<50	< 5	5	< 5	< 5	8	<5	14	< 5	< 150	< 5	< 5	9	< 5	< 5	< 5	< 5	<5	<5	6		7	<10	<10	< 25	< 10

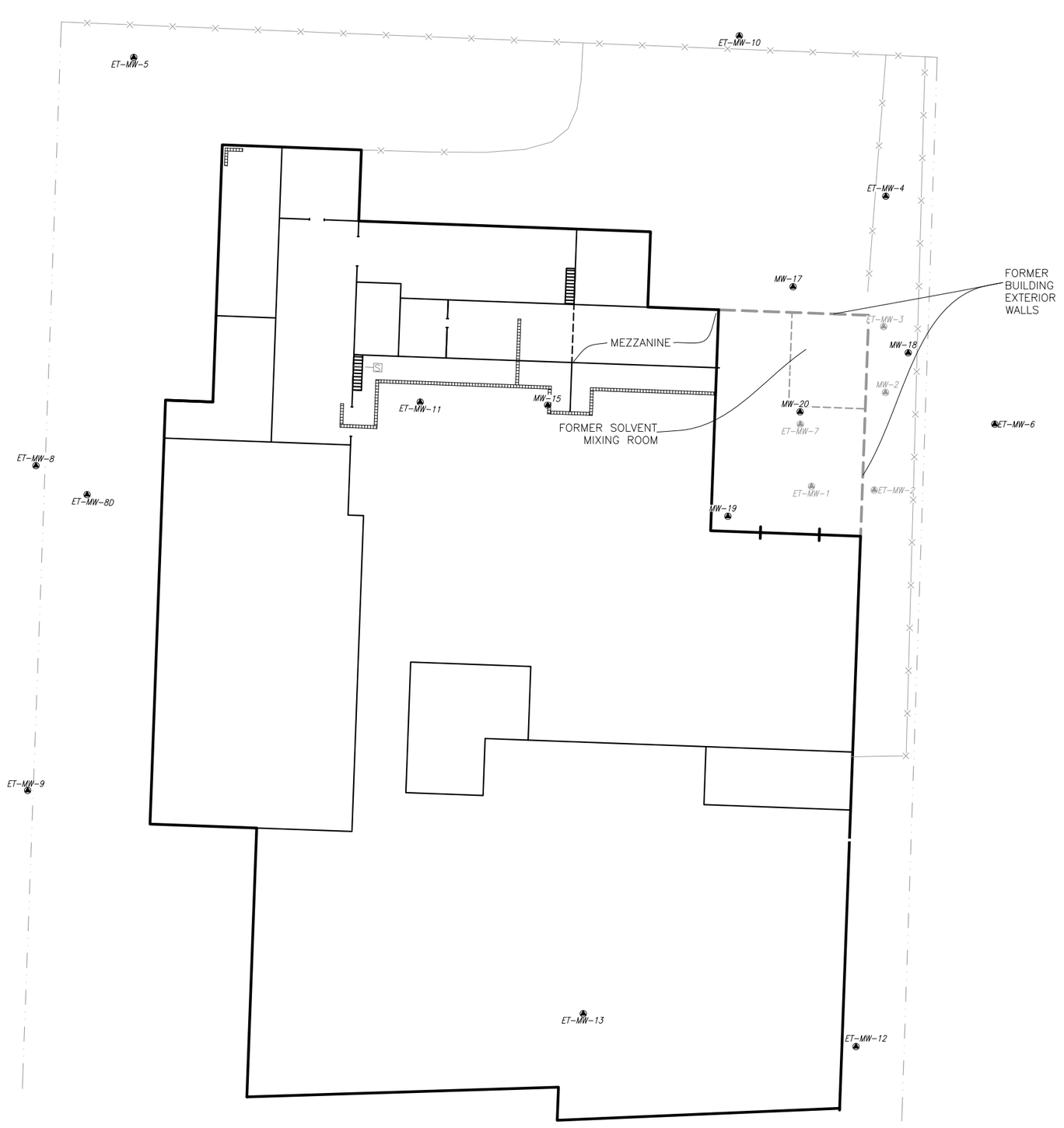
Table 2
Ground Water Quality Data (µg/L)
Former I. Schneid Facility
HSI Site 10753
Atlanta, Fulton County, Georgia

Well ID	Date Installed	Date Sampled	Compounds Detected (µg/L)																									
			Acetone	Benzene	Chlorobenzene	cis-1,2-Dichloroethene	1,4-Dichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,1-Dichloroethane	1,1-Dichloroethene	1,4 Dioxane	Ethylbenzene	Isopropylbenzene	Naphthalene	1,1,1-Trichloroethane	Trichloroethene	Tetrachloroethene	Methyl tert -butyl ether	Methylene Chloride	Toluene	Xylenes	Vinyl Choride	2,4-D	Acenaphthene	Dibenzofuran	Pentachlorophenol	2,4-Dichlorophenol
		RRS (Type)	***1***	***2***	***1***	***2***	***1***	***1***	***1***	***1***	***2***	***1***	***1***	***2***	***1***	***2***	***1***	***1***	***1***	***2***	***1***	***1***	***1***	***1***	***1***		***2***	***1***
		Applicable RRS	***4,000***	***5.50***	***100***	***31***	***75***	***600***	***600***	***4,000***	***103***	***0***	***700***	***200***	***20***	***1,011***	***5***	***5***	***0***	***55***	***1,000***	***10,000***	***2***	***70***	***2,000***		***1***	***20***
ET-MW-12	12/23/2002	Jun-05	<25	< 1	< 1	< 1	<1	<1	<1	< 1	< 1	NA	<1	< 1	<5	< 1	<1	<1	<2.5	<1	<1	<1		<5	<10	<10	<10	<10
		Mar-07		< 5	< 5	< 5	< 5	< 5		< 5	< 5	NA	NA	< 5	NA	< 5	NA	NA	NA					NA			NA	NA
		Nov-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Mar-09	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}		NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}
		Jun-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Sep-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Dec-09	<50	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	<150	<5	< 5	NA	< 5	< 5	< 5	< 5	< 5	< 5	< 5		NA	NA	NA	NA	NA
		Dec-10	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}		NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}
		Jul-11	<50	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	< 150	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		NA	NA	NA	NA	NA
		Jul-12	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		May-14	<50	< 5	< 5	NA	< 5	< 5	<5	< 5	< 5	NA	< 5	< 5	< 5	< 5	< 5	NA	NA	<5	<5	<5		NA	<10	NA	<25	<10
		Oct-14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Mar-15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Aug-15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Dec-15	<50	<5	<5	<5	<5	<5	<5	<5	<5	NA	<5	<5	NA	<5	<5	<5	<5	<5	<5	<5		NA	NA	NA	NA	NA
ET-MW-13	12/27/2002	Jun-05	<25	< 1	< 1	< 1	<1	<1	<1	< 1	< 1	NA	<1	< 1	<5	< 1	<1	<1	NA	<2.5	<1	<1		<5	<10	<10	<10	<10
		Mar-07		< 5	< 5	< 5	< 5	< 5		< 5	< 5	NA	NA	< 5	NA	< 5	NA	NA	NA					NA			NA	NA
		Nov-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Mar-09	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}		NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}
		Jun-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Sep-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Dec-09	<50	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	<150	<5	< 5	NA	< 5	<5	<5	<5	<5	<5	<5		NA	NA	NA	NA	NA
		Dec-10	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}		NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}
		Jul-11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Jul-12	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		May-14	<50	< 5	< 5	NA	< 5	< 5	<5	< 5	< 5	NA	< 5	< 5	< 5	< 5	< 5	NA	NA	<5	<5	<5		NA	<10	NA	<25	<10
		Oct-14	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}		NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}	NS^{DRY}
		Mar-15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Aug-15	<50	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	< 150	< 5	< 5	< 5	< 5	< 5	< 5	< 5	<5	<5	<5		NA	NA	NA	NA	NA
MW-15	6/7/2005	Jun-05	<25	< 1	**163**	< 1	< 1	11	<1	< 1	< 1	NA	2	< 1	17	< 1	<1	<1	NA	<2.5	1	7		NA	NA	NA	NA	NA
		Mar-07	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Nov-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Mar-09	<50	5	**1,300**	< 5	12	29	<5	< 5	< 5	NA	<5	< 5	<5	< 5	< 5	< 5	NA	< 5	<5	<5		NA	NA	NA	NA	NA
		Jun-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Sep-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
		Dec-09	<50	< 5	**140**	< 5	< 5	9	<5	< 5	< 5	<150	<5	< 5	NA	< 5	< 5	< 5	< 5	< 5	< 5	< 5		NA	NA	NA	NA	NA
		Dec-10	<50	< 5	32	< 5	< 5	< 5	<5	< 5	< 5	<150	<5	< 5	12	< 5	<5	<5	<5	<5	<5	<5		NA	NA	NA	NA	NA
		Jul-11	<50	< 5	34	< 5	< 5	< 5	<5	< 5	< 5	< 150	< 5	< 5	< 5	< 5	< 5	< 5	< 5	<5	<5	<5		NA	NA	NA	NA	NA
		Jul-12	<50	< 5	13	< 5	< 5	< 5	<5	23	< 5	< 150	< 5	< 5	< 5	< 5	< 5	< 5	<5	<5	<5	<5		NA	NA	NA	NA	NA
		May-14	<50	< 5	22	NA	< 5	11	<5	< 5	< 5	NA	< 5	<5	< 5	< 5	< 5	NA	NA	<5	<5	<5		NA	<10	NA	<25	<10
		Oct-14	<50	<5	<5	NA	<5	<5	<0.005	<5	<5	NA	<5	<5	<5	<5	<5	NA	NA	<0.005	<0.005	<0.005		NA	<10	NA	<25	<10
		Mar-15	<50	< 5	< 5	NA	< 5	< 5	<5	< 5	< 5	NA	< 5	< 5	< 5	< 5	< 5	NA	NA	<5	<5	<5		NA	<10	NA	< 25	< 10
		Aug-15	<50	< 5	18	< 5	< 5	18	<5	< 5	< 5	< 150	< 5	< 5	< 5	< 5	< 5	< 5	< 5	<5	<5	<5		NA	NA	NA	NA	NA
MW-17	3/13/2015	Mar-15	150	5	19	NA	< 5	66	<5	67	11	NA	36	13	**130**	25	< 5	NA	NA	6	82	290		NA	<10	NA	< 25	< 10
		Aug-15	62	**5.6**	32	< 5	5.1	150	<5	54	14	< 150	53	16	**200**	47	< 5	< 5	< 5	<5	94	390		NA	NA	NA	NA	NA
MW-18	3/13/2015	Mar-15	<50	< 5	9.6	NA	< 5	< 5	<5	< 5	< 5	NA	< 5	< 5	< 5	< 5	< 5	NA	NA	<5	<5	<5		NA	<10	NA	< 25	< 10
		Aug-15	<50	< 5	12	< 5	< 5	15	<5	< 5	<5	< 150	< 5	< 5	5.2	< 5	< 5	< 5	< 5	<5	<5	<5		50	<10	<10	< 25	< 10
		Aug-15 DUP-01	<50	< 5	13	< 5	< 5	16	<5	< 5	< 5	< 150	< 5	< 5	5.3	< 5	< 5	< 5	< 5	<5	<5	<5		57	<10	<10	< 25	< 10
MW-19	3/13/2015	Mar-15	<50	< 5	84	NA	19	140	<5	21	< 5	NA	59	7.7	**180**	< 5	< 5	NA	NA	<5	<5	330		NA	13	NA	**26**	< 10
		Mar-15 DUP-01	<50	<5	85	NA	19	140	<5	21	<5	NA	60	8.1	**180**	<5	<5	NA	NA	<5	<5	340		NA	15	NA	**28**	<10
		Aug-15	<50	< 5	**200**	6.1	71	580	12	21	< 5	< 150	200	25	**900**	< 5	< 5	< 5	< 5	<5	23	1300		19	34	12	**40**	< 10
		Nov-16		<50	89	<5	41	450	7.9	12	<5	NA	90	13	**250**	<5	<5	<5	<5	<5	14	480	<2	na	21	<10	**46**	<10
MW-20		Nov-16	170	**23**	11	6.7	70	500	16	160	23	NA	160	19	**330**	40	<5	<5	<5	**120**	30	810	**3.9**	NA	38	13	**160**	**1,100**

Highlighted Values Exceed the Approved GW RRS.
NA = Not Analyzed. NS = Not Sampled.

Figures

February 9, 2017
Project No. 0121021
Former I. Schneid, Atlanta, Georgia, HSI Site No. 10753



LEGEND

- ET-MW-8 — MONITOR WELL LOCATION
- ET-MW-1 — ABANDONED MONITOR WELL LOCATION
- FLOOR DRAIN
- SUMP
- STAIRS
- FENCE LINE
- PROPERTY LINE

N

0 40 80

SCALE FEET

Environmental Resources Management

FIGURE 1
SITE PLAN
VOLUNTARY REMEDIATION PLAN
I. SCHNEID FACILITY
ATLANTA, FULTON COUNTY, GEORGIA

DESIGN: SV	DRAWN: SV	CHKD.: BF
DATE: 2/7/2017	SCALE: AS SHOWN	REV.: 0

W.O.NO.: Q:\Atlanta\Projects\0121021 IS Liquidation Liquidation Remed 21889.JB\Files\FIGURES\121021 ISL\2017\121021Site.dwg

ERM

HVE Report

Attachment A

February 9, 2017
Project No. 0121021
Former I. Schneid, Atlanta, Georgia, HSI Site No. 10753

ECOVAC SERVICES
The World Leader in Mobile Dual-Phase/Multi-Phase Extraction
Patented SURFAC®/ ISCO-EFR®/ SOLV-IT® Technologies

October 28, 2016

Mr. Jeff Bilkert
ERM
3200 Windy Hill Road Suite 1500W
Atlanta, Georgia 30339
jeff.bilkert@erm.com

Subject: Enhanced Fluid Recovery (EFR®) Results
Event No. 2
Former I Schneid Liquidation
1429 Fairmont Ave NW
Atlanta, Georgia

Dear Mr. Bilkert:

Please find attached the data summary for the second EFR® event conducted at the subject site on October 19, 2016. An initial EFR® event was conducted at this site on February 24, 2006. The following summarizes the results of EFR® at this site.

SUMMARY OF RESULTS

Separate-phase hydrocarbons (SPH) were detected in two gauged monitor wells (MW-19 – 0.22 feet and MW-20 – 0.11 feet) prior to this EFR® event. This EFR® event was conducted for eight hours at two extraction points consisting of MW-19 and MW-20. SPH was not detected upon completion of conducting this event.

A calculated total of 6.2 pounds of petroleum hydrocarbons (approximately 0.9 equivalent gallons of "diesel like" petroleum hydrocarbons) was recovered during this event. This recovery total is greater than the total attained during the initial event (3.3 pounds of petroleum hydrocarbons - approximately 0.5 equivalent gallons of hydrocarbons).

Hydrocarbon removal rates ranged from 0.3 to 1.5 pounds per hour throughout this event. These removal rates range higher than rates attained during the initial event (0.2 to 0.5 pound per hour).

A dual internal combustion engine (DICE) unit was utilized throughout the event to treat effluent vapor generated during extraction. Pretreatment vapor concentrations ranged from 240 to 1,200 parts per million by volume (PPM_V) during this EFR® event, as compared to concentrations of 120

to 360 PPM_V measured during the initial event. Vapor flow rates ranged from 57 to 61 actual cubic feet per minute (ACFM) during this EFR® event, as compared to flow rates of 60 to 97 ACFM measured during the initial event. The DICE released a calculated total of 0.06 pound of hydrocarbons to the atmosphere, a destruction efficiency of 99.07%.

In-well vacuum data collected at the extraction wellheads during this EFR® event are detailed in the EFR® Field Data Sheet and summarized below:

Extraction Well	In-Well Vacuum
MW-10	5 to 8 inches of mercury
MW-17	10 to 12 inches of mercury

Differential pressure data was collected during the event to assess vacuum influence generated by EFR® in the vadose zone. These data are detailed in the attached data table and summarized below:

Monitor Well	Maximum Change	Nearest Extraction Well (Approximate Distance)
MW-17	-1.39 inches of water	MW-20 (37 feet)

Groundwater levels were also measured during the event to evaluate drawdown of the aquifer. These data are detailed in the attached data table and summarized below:

Monitor Well	Maximum Change	Nearest Extraction Well (Approximate Distance)
MW-17	-0.11 feet	MW-20 (37 feet)

Approximately 341 gallons of liquid were removed during this EFR® event and transported to Environmental Remedies, LLC (Atlanta, Georgia) for disposal. SPH was not detected in the vacuum truck tank upon conclusion of EFR®.

Thank you for this opportunity to team with ERM in serving the environmental needs of your clients. We look forward to working with you in the future to provide innovative and cost effective environmental solutions at this and other sites.

Sincerely,

EcoVac Services

David M. Goodrich

David M. Goodrich, P.G.

EFR® FIELD DATA SHEET

Client: ERM	Facility Name: Former I Schneid Liquidation	Event #: 2
Facility Address: 1429 Fairmont Ave NW, Atlanta, GA	Technician: Winkler	Date: 10/21/16

Extraction Well(s)	Time hh:mm	Extraction Well-head Vacuum (in. Hg)									DICE Inlet				DICE Exhaust		
		Inlet	MW-19	MW-20							Concen-tration PPM	Flow Rate ACFM	Removal Rate LBS/HR	Interval Removal LBS	Concen-tration PPM	Emissions Rate LBS/HR	Interval Emissions LBS
Start Time:	7:45																
MW-19,20	8:00	25	5	10							1,200	60	1.5	0.4	6	0.007	0.002
"	8:15	25	5	10							1,200	61	1.5	0.4	6	0.008	0.002
"	8:30	25	7	10							1,200	59	1.5	0.4	6	0.007	0.002
"	8:45	25	7	10							1,000	57	1.2	0.3	6	0.007	0.002
"	9:15	25	7	10							900	57	1.1	0.5	6	0.007	0.004
"	9:45	25	7	10							880	57	1.0	0.5	6	0.007	0.004
"	10:45	25	8	12							720	59	0.9	0.9	6	0.007	0.007
"	11:45	25	8	12							680	59	0.8	0.8	6	0.007	0.007
"	12:45	25	8	12							520	59	0.6	0.6	6	0.007	0.007
"	13:45	25	8	12							500	59	0.6	0.6	6	0.007	0.007
"	14:45	25	8	12							440	57	0.5	0.5	6	0.007	0.007
"	15:45	25	8	12							240	57	0.3	0.3	6	0.007	0.007

Well Gauging Data:			Before EFR® Event			After EFR® Event			Corr. DTW	Breather	Stinger
Well No.	Diam.	TD (ft)	DTS (ft)	DTW (ft)	SPH (ft)	DTS (ft)	DTW (ft)	SPH (ft)	Change (ft)	Port (ACFM)	Depth (ft)
MW-17	2"		-	15.04	0.00	-	15.15	0.00	-0.11		
MW-19	2"	22.15	14.33	14.55	0.22	-	21.20	0.00	-6.82	0	15 - 20 - 22
MW-20	2'	24.22	14.92	15.03	0.11	-	Dry	-	-	0	15 -20 - 24

Vacuum Truck Information	
Subcontractor:	None
Truck Operator:	C. Free
Truck No.:	149
Vacuum Pumps:	Becker
Pump Type:	Twin LC-44s
Tank Capacity (gal.):	2,894

Recovery/Disposal Information		
Hydrocarbons Removed (vapor):	6.2	pounds
Hydrocarbons Removed (liquid):	0	gallons
Total Hydrocarbons Removed:	0.9	equiv. gal.
Molecular Weight Used:	130	g/mole
Disposal Facility:	ERL	
Total Liquids Removed:	341	gallons

ECOVAC SERVICES
ENVIRONMENTAL REMEDIATION

www.ecovacservices.com

(888) 4ECOVAC

Groundwater Recovery		
Total Recovery:	341	gallons
Average Flow Rate:	43	gallons/hr

Offgas Treatment Information		
Atmospheric Exhaust:	0.06	pounds
Destruction Efficiency:	99.07%	percent

Supplemental Fuel	
Type:	Propane
Gallons Used:	24

Vacuum Pump Use	
Time:	7:45 to 15:45
# Pumps:	2
RPM:	900

Notes:

- Increased stinger depth 5" at 10:00.
- Increased stinger depth to bottom at 12:45.

183143

Environmental Remedies, LLC

NON-HAZARDOUS WASTE MANIFEST / CERTIFICATE OF DISPOSAL

Work Order #

GENERATOR INFORMATION:

Name: Former I Schweid Liquidation — Contact:

Address: 1429 Fairmont Ave NW — Contact Phone:

City, State: Atlanta, Ga — Zip: — County:

TRANSPORTER INFORMATION:

Transporter: ~~All Vac Services~~ Ecovac Services

Address: ~~105 Weatherstone Dr Suite 610~~ 765 Ash St

City, State: ~~Woodstock, GA 30188~~ Canton, Ga. 30114

Contact Name: Nick Athens

Contact Phone: ~~770-842-8095~~

DESIGNATED FACILITY:

Facility Name: Environmental Remedies, LLC

Address: 460 Sawtell Avenue, SE

City, State: Atlanta, GA — Zip: 30315

Emergency Contact: Paul Powers

Emergency Phone: 800-399-2783 x 304

1st Trip Departure: — 2nd Trip Departure:

Arrival: — Arrival:

Start: — Start:

Departure: — Departure:

Arrival: — Arrival:

Comments (Driver / Customer):

DO NOT WRITE IN THIS SECTION

Date : 10/21/16 17:00
Ticket : 83332

Gross 39180 lb
Tare 33560 lb
Net 5620 lb

Waste Description / DOT Shipping Name /	Profile Number	Quantity	Units
Corrective Action Groundwater	7292 - 35001	341.86	gals
Non-Haz Non-Reg			

Discrepancy Section:

Generators Certification: This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

GENERATOR (Print or Type) — Signature — Date

* ISL by Environmental Remediation Services as agent of Mfg — 10/21/16

Transporter Certification: I hereby acknowledge the receipt of the above listed waste(s) and agree to trasport to the designated facility unless directed to do so by the generator.

TRANSPORTER (Print or Type) — Signature — Date

~~All Vac Services~~ Ecovac Services — Christopher W Free — 10/21/16

Receiving Facility Certification: The above waste (s) were received by this facility, and will be processed, disposed of, or recycled in accordance with applicable regulations.

FACILITY (Print or Type) — Signature — Date

Environmental Remedies, LLC — 10/21/16

WHITE-T/S/D/F COPY PINK-T/S/D/F COPY GOLD-INVOICE COPY GREEN-TRANSPORTER BLUE-GENERATOR

Hydraulic Conductivity and Ground Water Flow Velocity Calculations

Attachment B

February 9, 2017
Project No. 0121021
Former I. Schneid, Atlanta, Georgia, HSI Site No. 10753

Attachment B
Summary of Slug Test Results, March 2016
Former I.Schied Facility (HSI Site # 10753)
Atlanta, Georgia

Well ID	Test Description	Analysis Method	Hydraulic Conductivity[1] [K] (cm/sec)	Geometric Average Well Hydraulic Conductivity[2] (cm/sec)
ET-MW-8[3]	Slug Out	Bouwer-Rice (1976)	7.56E-04	6.27E-04
	Slug Out		5.20E-04	
ET-MW-9[3]	Slug Out	Bouwer-Rice (1976)	5.63E-04	4.36E-04
	Slug Out		3.37E-04	
ET-MW-12[3]	Slug Out	Bouwer-Rice (1976)	5.16E-04	5.10E-04
	Slug Out		5.04E-04	
MW-17	Slug In	Bouwer-Rice (1976)	4.36E-04	3.07E-04
	Slug Out		1.85E-04	
	Slug In		4.20E-04	
	Slug Out		2.62E-04	
MW-18	Slug Out	Bouwer-Rice (1976)	2.34E-04	2.34E-04
MW-19[3]	Slug Out	Bouwer-Rice (1976)	3.48E-04	7.34E-04
	Slug Out		1.55E-03	
MW-20[3]	Slug Out	Bouwer-Rice (1976)	3.29E-04	4.44E-04
	Slug Out		5.99E-04	
Geometric Mean of All Data				4.41E-04 (1.25 feet/day)

[1] Values of *Hydraulic Conductivity* were computed using AQTESOLV for Windows

[2] Computed using a geometric mean

[3] Slug in test not used due to well screen partially submerged

Notes: *"Slug in" refers to a falling head test, creating an upward displacement of water.*
"Slug out" refers to a rising head test, creating a downward displacement of water.

Attachment B
Ground Water Flow Velocity Calculations
Former I.Schied Facility (HSI Site # 10753)
Atlanta, Georgia

MONITORING EVENT DATE	UPGRADIENT ET-MW-4 GROUND WATER ELEVATION (feet)	DOWNGRADIENT ET-MW-9 GROUND WATER ELEVATION (feet)	HORIZONTAL DISTANCE (feet)	GROUNDWATER GRADIENT (I)	AVERAGE LINEAR VELOCITY OF GROUND WATER FLOW (ft/day)*	AVERAGE LINEAR VELOCITY OF GROUND WATER FLOW (ft/year)
08-Jan-16	89.22	80.27	345	0.026	0.11 ft/day	39.54 ft/year

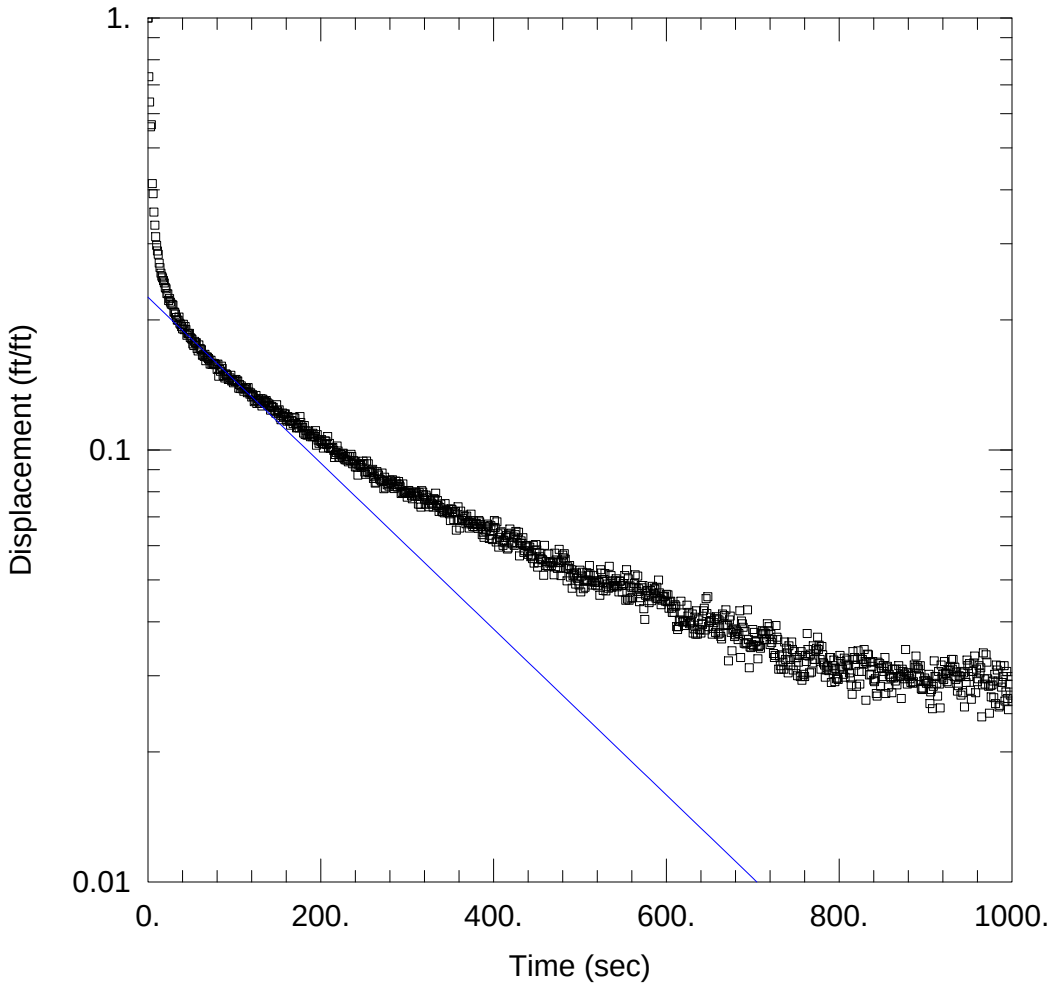
Note

*: Average linear flow velocity calculated using, V = (K/ne) * I

where: K = 1.25 feet/day

ne = effective porosity (0.3)

I = groundwater gradient calculated above.



ET-MW-8 RISING 1

Data Set: S:\...\MW-8_Rising1_TD.aqt
Date: 04/15/16 Time: 10:52:16

PROJECT INFORMATION

Company: ERM
Client: I Schneid
Project: 0121021
Location: Georgia
Test Well: ET-MW-8
Test Date: 15 March 2016

AQUIFER DATA

Saturated Thickness: 45. ft Anisotropy Ratio (Kz/Kr): 0.5

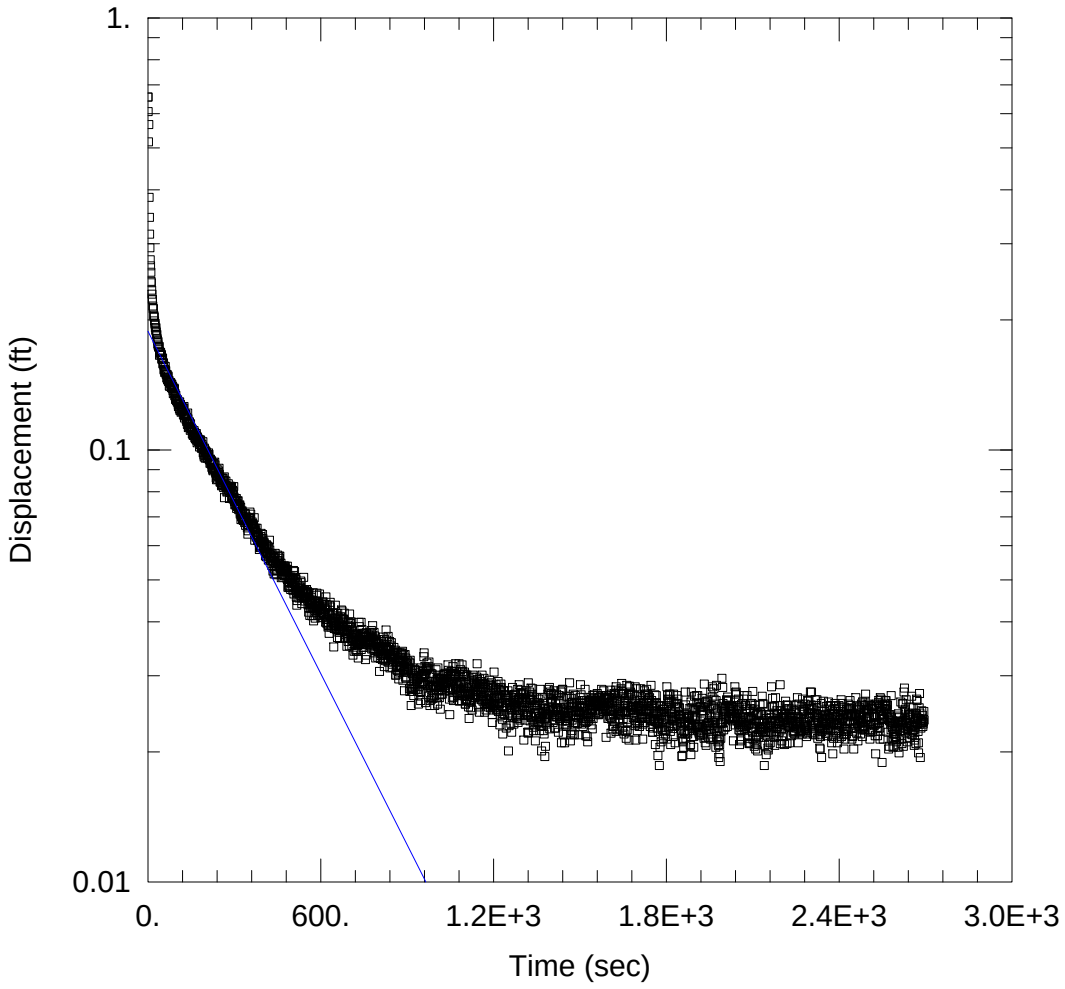
WELL DATA (ET-MW-8)

Initial Displacement: 0.8464 ft
Total Well Penetration Depth: 7.84 ft
Casing Radius: 0.083 ft
Static Water Column Height: 7.84 ft
Screen Length: 7.84 ft
Well Radius: 0.344 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.0007558 cm/sec y0 = 0.191 ft



ET-MW-8 RISING 2

Data Set: S:\...\MW-8_Rising2_TD.aqt
Date: 04/15/16 Time: 10:50:29

PROJECT INFORMATION

Company: ERM
Client: I Schneid
Project: 0121021
Location: Georgia
Test Well: ET-MW-8
Test Date: 15 March 2016

AQUIFER DATA

Saturated Thickness: 45. ft Anisotropy Ratio (Kz/Kr): 0.5

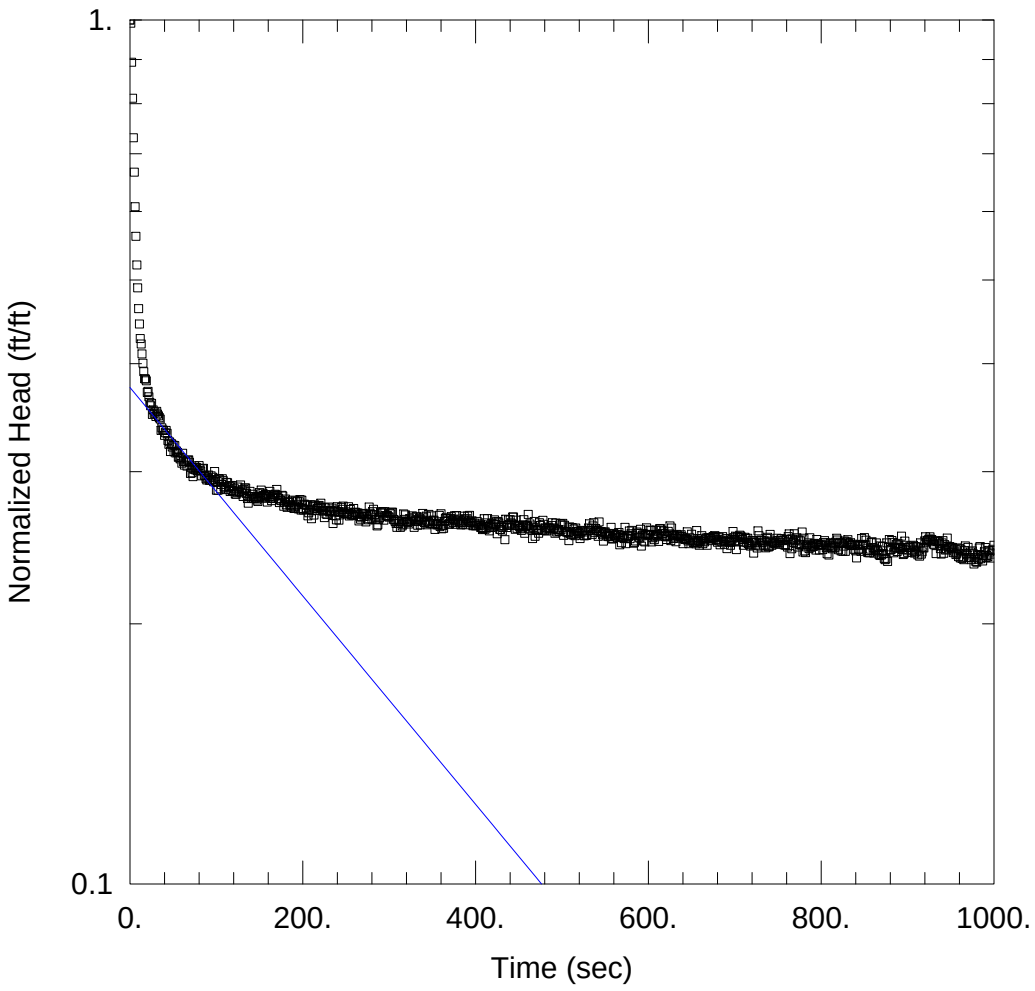
WELL DATA (ET-MW-8)

Initial Displacement: 0.6559 ft
Total Well Penetration Depth: 7.84 ft
Casing Radius: 0.083 ft
Static Water Column Height: 7.84 ft
Screen Length: 7.84 ft
Well Radius: 0.344 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.0005199 cm/sec y0 = 0.1882 ft



ET-MW-9 RISING 1

Data Set: S:\...\MW-9_Rising1_TD.aqt
Date: 04/15/16 Time: 10:55:14

PROJECT INFORMATION

Company: ERM
Client: I Schneid
Project: 0121021
Location: Georgia
Test Well: ET-MW-9
Test Date: 15 March 2016

AQUIFER DATA

Saturated Thickness: 44. ft Anisotropy Ratio (Kz/Kr): 0.5

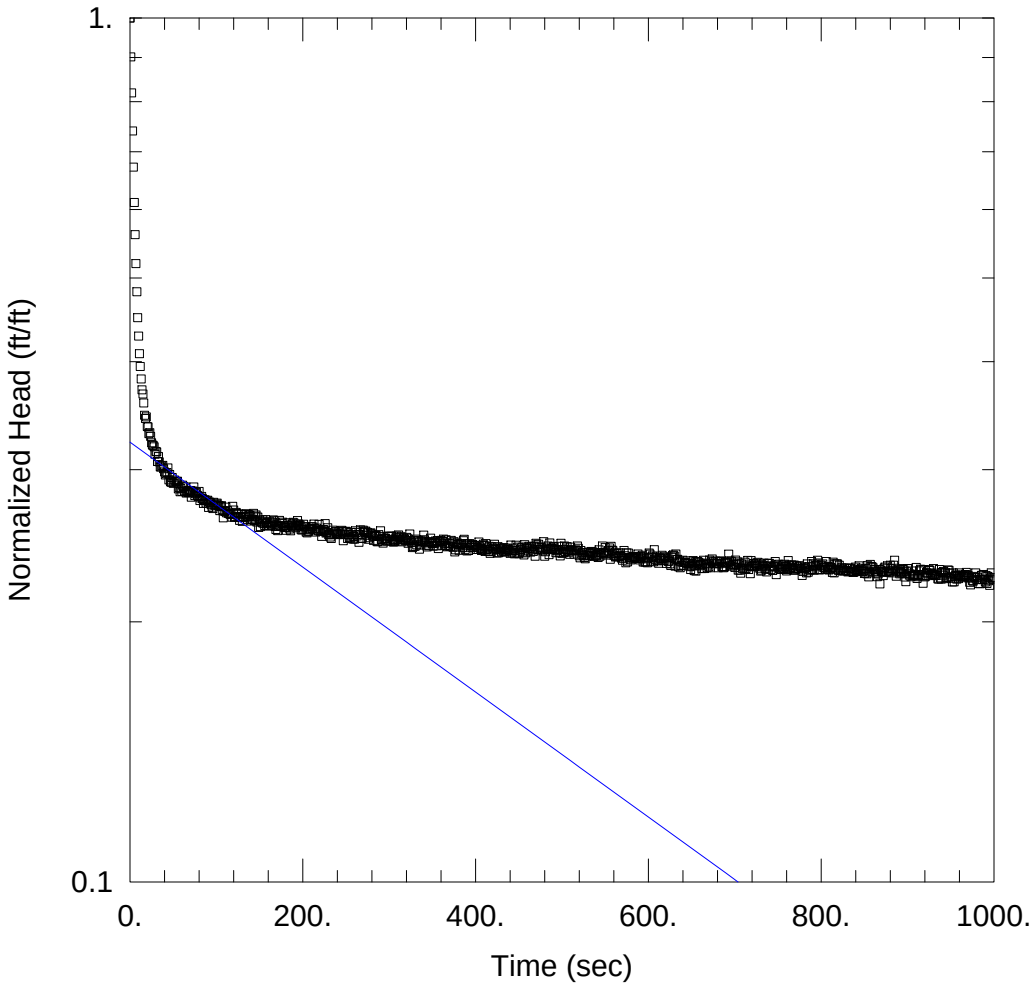
WELL DATA (ET-MW-9)

Initial Displacement: 0.6178 ft
Total Well Penetration Depth: 5.89 ft
Casing Radius: 0.083 ft
Static Water Column Height: 5.89 ft
Screen Length: 5.89 ft
Well Radius: 0.344 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.0005627 cm/sec y0 = 0.2319 ft



ET-MW-9 RISING 2

Data Set: S:\...\MW-9_Rising2_TD.aqt
Date: 04/15/16 Time: 10:57:02

PROJECT INFORMATION

Company: ERM
Client: I Schneid
Project: 0121021
Location: Georgia
Test Well: ET-MW-9
Test Date: 15 March 2016

AQUIFER DATA

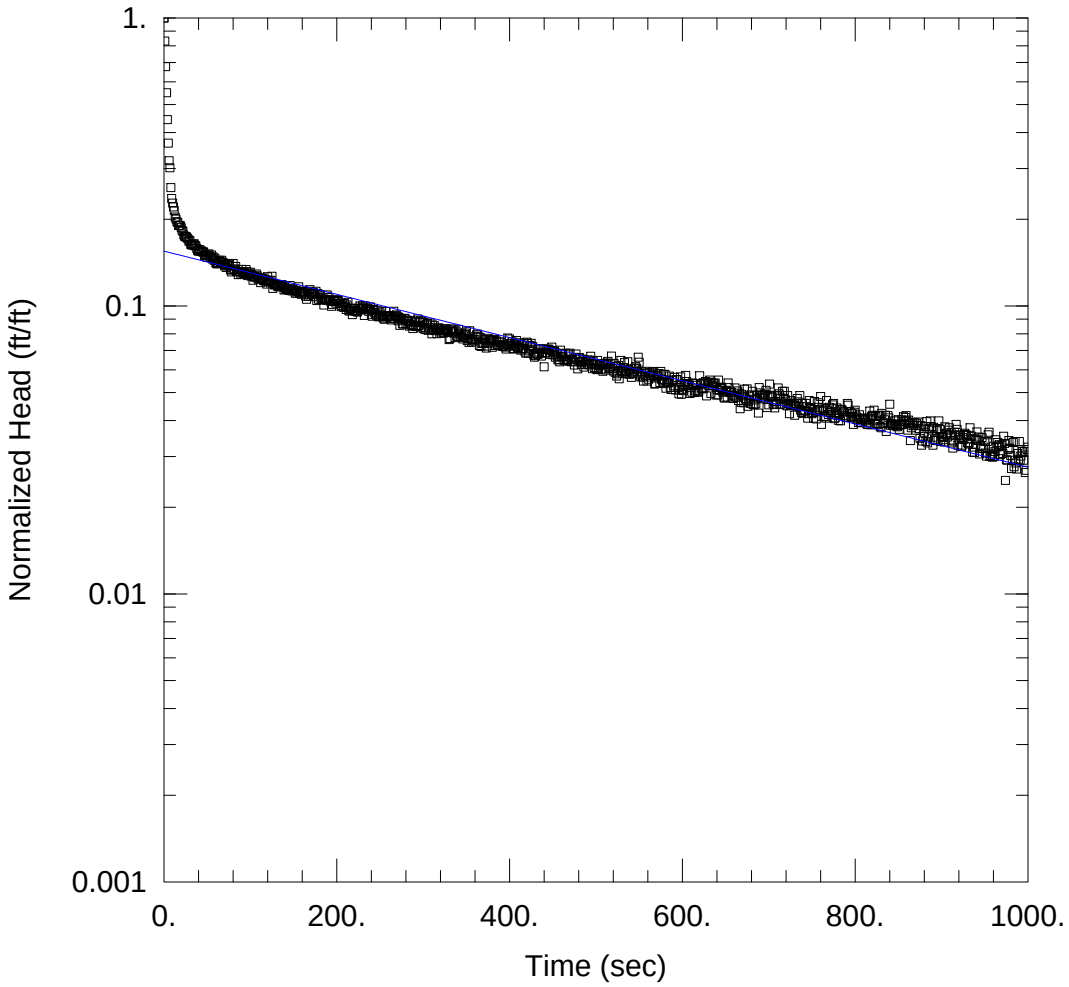
Saturated Thickness: 44. ft
Anisotropy Ratio (Kz/Kr): 0.5

WELL DATA (ET-MW-9)

Initial Displacement: 0.8338 ft
Total Well Penetration Depth: 5.89 ft
Casing Radius: 0.083 ft
Static Water Column Height: 5.89 ft
Screen Length: 5.89 ft
Well Radius: 0.344 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.0003374 cm/sec
y0 = 0.2692 ft



ET-MW-12 RISING 1

Data Set: S:\...\MW-12_Rising1_TD.aqt
Date: 04/15/16 Time: 11:06:16

PROJECT INFORMATION

Company: ERM
Client: I Schneid
Project: 0121021
Location: Georgia
Test Well: ET-MW-12
Test Date: 16 March 2016

AQUIFER DATA

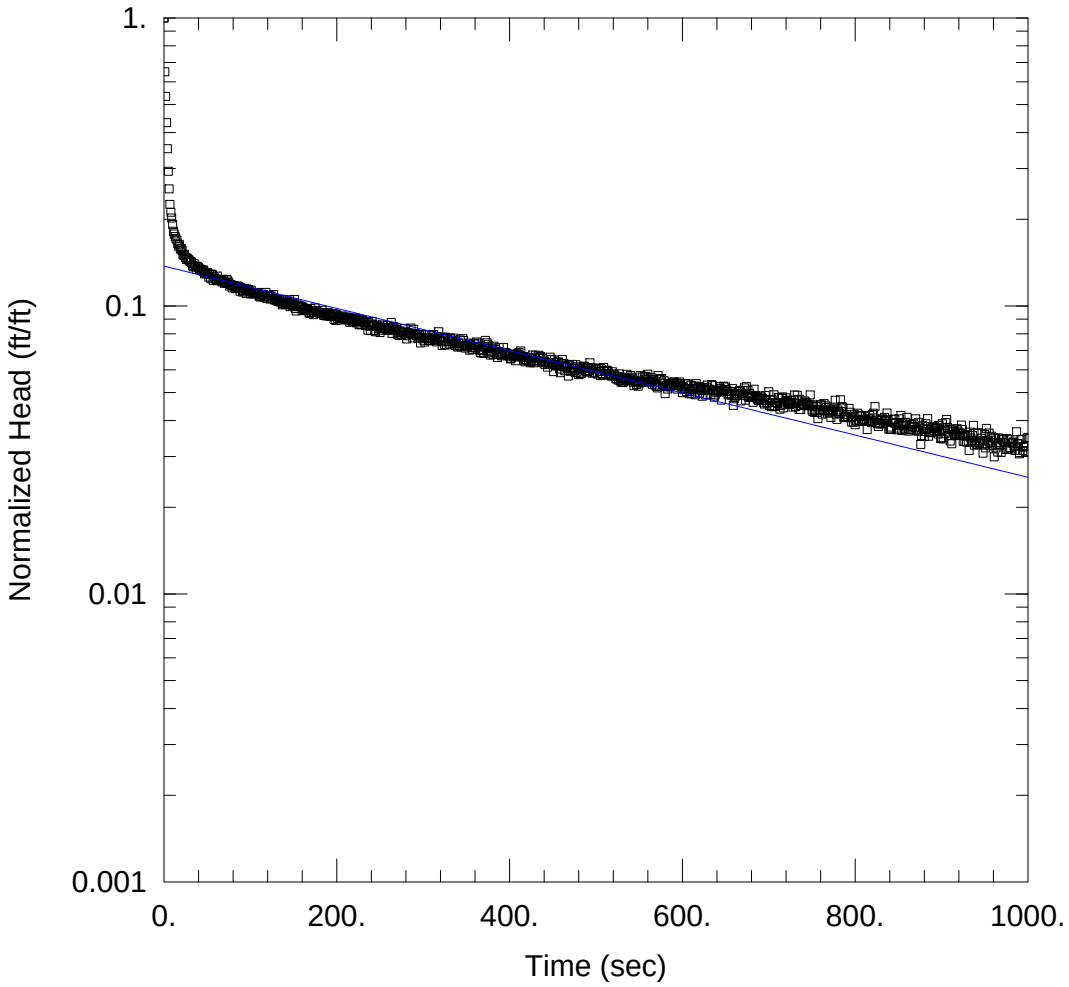
Saturated Thickness: 45. ft
Anisotropy Ratio (Kz/Kr): 0.5

WELL DATA (ET-MW-12)

Initial Displacement: 0.8074 ft
Total Well Penetration Depth: 2.75 ft
Casing Radius: 0.083 ft
Static Water Column Height: 2.75 ft
Screen Length: 2.75 ft
Well Radius: 0.344 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.0005155 cm/sec
y0 = 0.1251 ft



ET-MW-12 RISING 2

Data Set: S:\...\MW-12_Rising2_TD.aqt
Date: 04/15/16 Time: 11:07:56

PROJECT INFORMATION

Company: ERM
Client: I Schneid
Project: 0121021
Location: Georgia
Test Well: ET-MW-12
Test Date: 16 March 2016

AQUIFER DATA

Saturated Thickness: 45. ft Anisotropy Ratio (Kz/Kr): 0.5

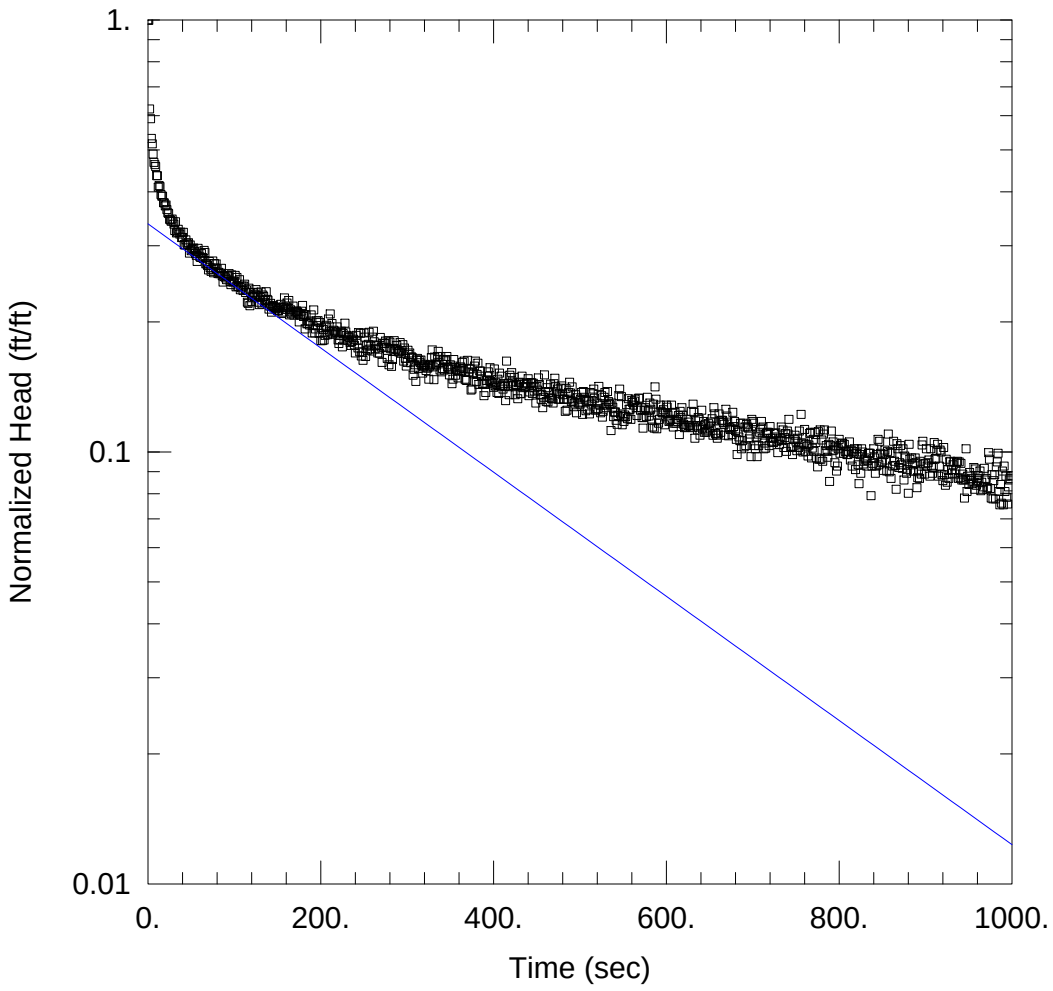
WELL DATA (ET-MW-12)

Initial Displacement: 1.081 ft
Total Well Penetration Depth: 2.75 ft
Casing Radius: 0.083 ft
Static Water Column Height: 2.75 ft
Screen Length: 2.75 ft
Well Radius: 0.344 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.0005038 cm/sec y0 = 0.1485 ft



MW-17 FALLING 1

Data Set: S:\...\MW-17_Falling1_TD.aqt
Date: 04/15/16 Time: 15:00:00

PROJECT INFORMATION

Company: ERM
Client: I Schneid
Project: 0121021
Location: Georgia
Test Well: MW-17
Test Date: 16 March 2016

AQUIFER DATA

Saturated Thickness: 48. ft Anisotropy Ratio (Kz/Kr): 0.5

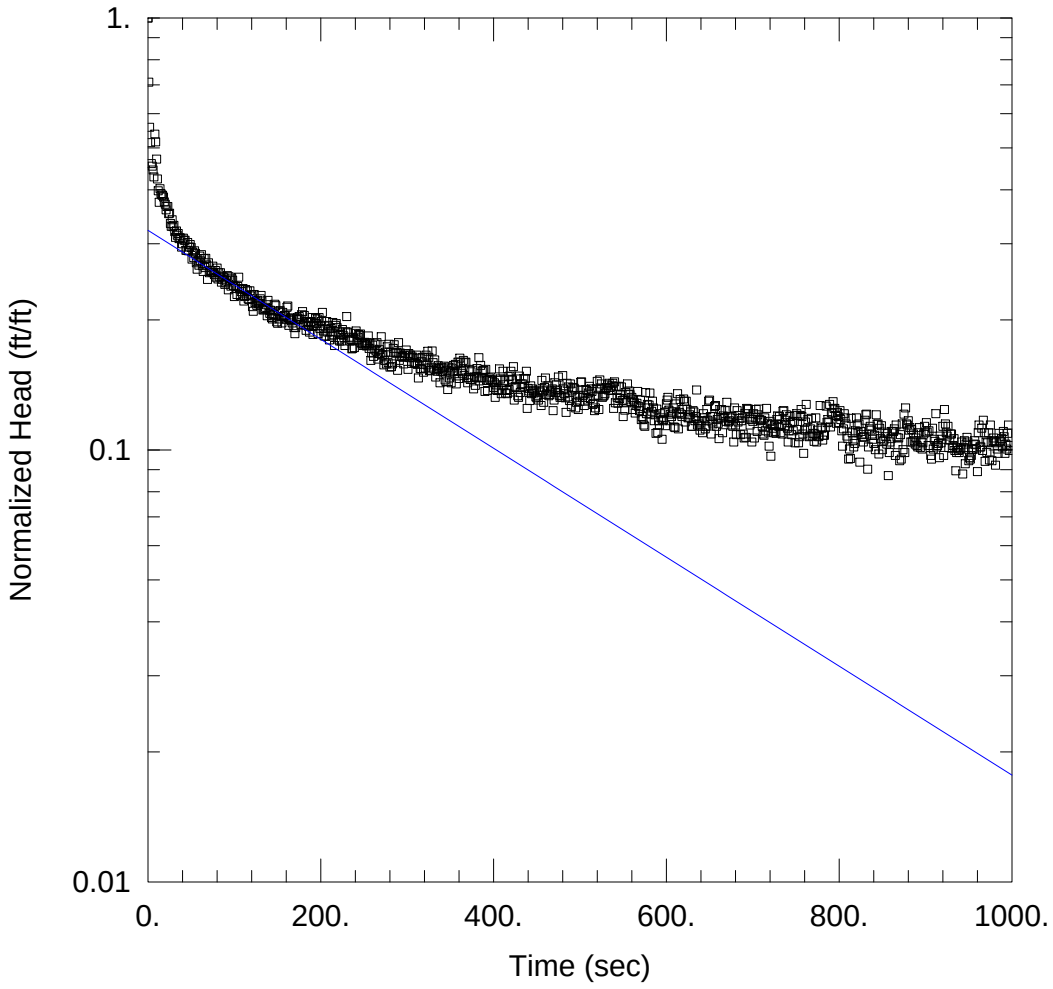
WELL DATA (MW-17)

Initial Displacement: 0.2891 ft
Total Well Penetration Depth: 12.22 ft
Casing Radius: 0.083 ft
Static Water Column Height: 12.22 ft
Screen Length: 10. ft
Well Radius: 0.354 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.0004364 cm/sec y0 = 0.09749 ft



MW-17 FALLING 2

Data Set: S:\...\MW-17_Falling2_TD.aqt
Date: 04/15/16 Time: 15:01:11

PROJECT INFORMATION

Company: ERM
Client: I Schneid
Project: 0121021
Location: Georgia
Test Well: MW-17
Test Date: 16 March 2016

AQUIFER DATA

Saturated Thickness: 48. ft Anisotropy Ratio (Kz/Kr): 0.5

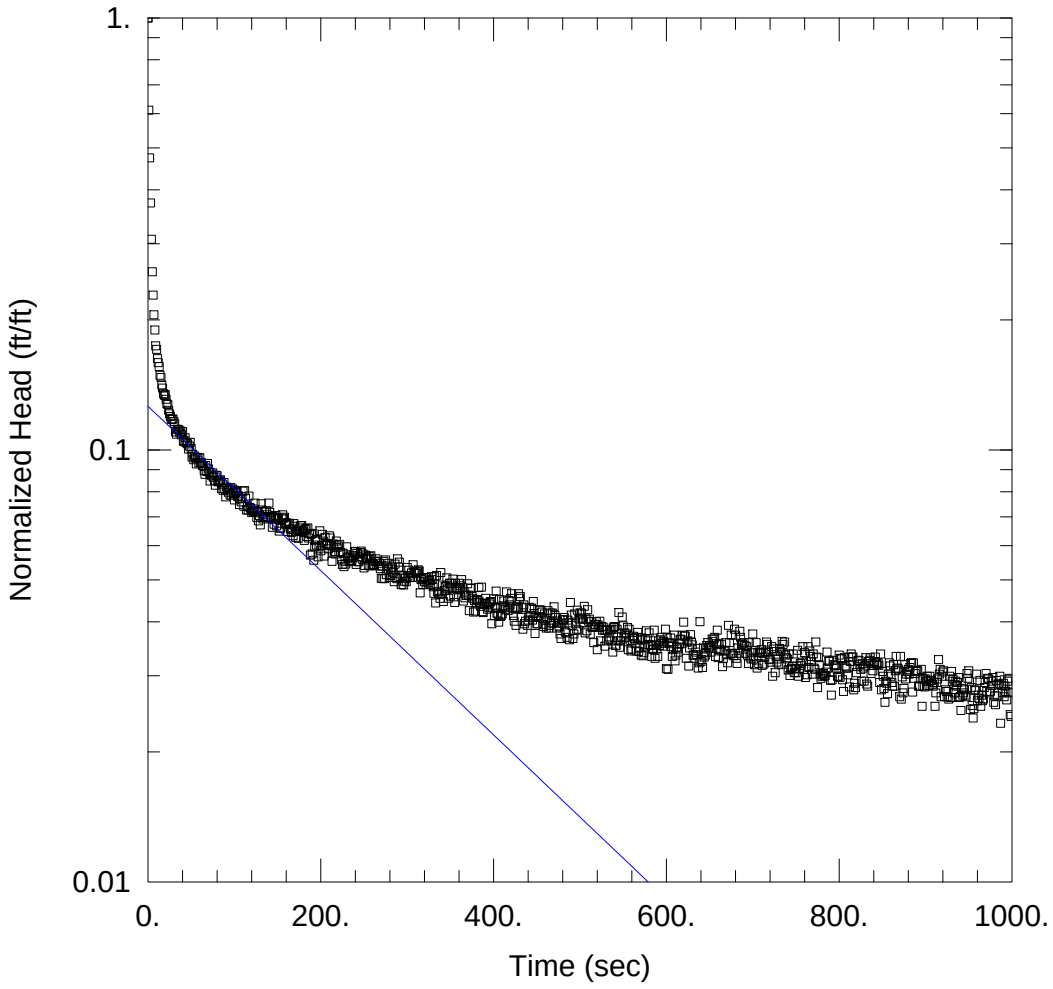
WELL DATA (MW-17)

Initial Displacement: 0.2637 ft
Total Well Penetration Depth: 12.22 ft
Casing Radius: 0.083 ft
Static Water Column Height: 12.22 ft
Screen Length: 10. ft
Well Radius: 0.354 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.0004198 cm/sec y0 = 0.08499 ft



MW-17 RISING 1

Data Set: S:\...\MW-17_Rising1_TD.aqt
Date: 04/15/16 Time: 15:03:12

PROJECT INFORMATION

Company: ERM
Client: I Schneid
Project: 0121021
Location: Georgia
Test Well: MW-17
Test Date: 16 March 2016

AQUIFER DATA

Saturated Thickness: 48. ft Anisotropy Ratio (Kz/Kr): 0.5

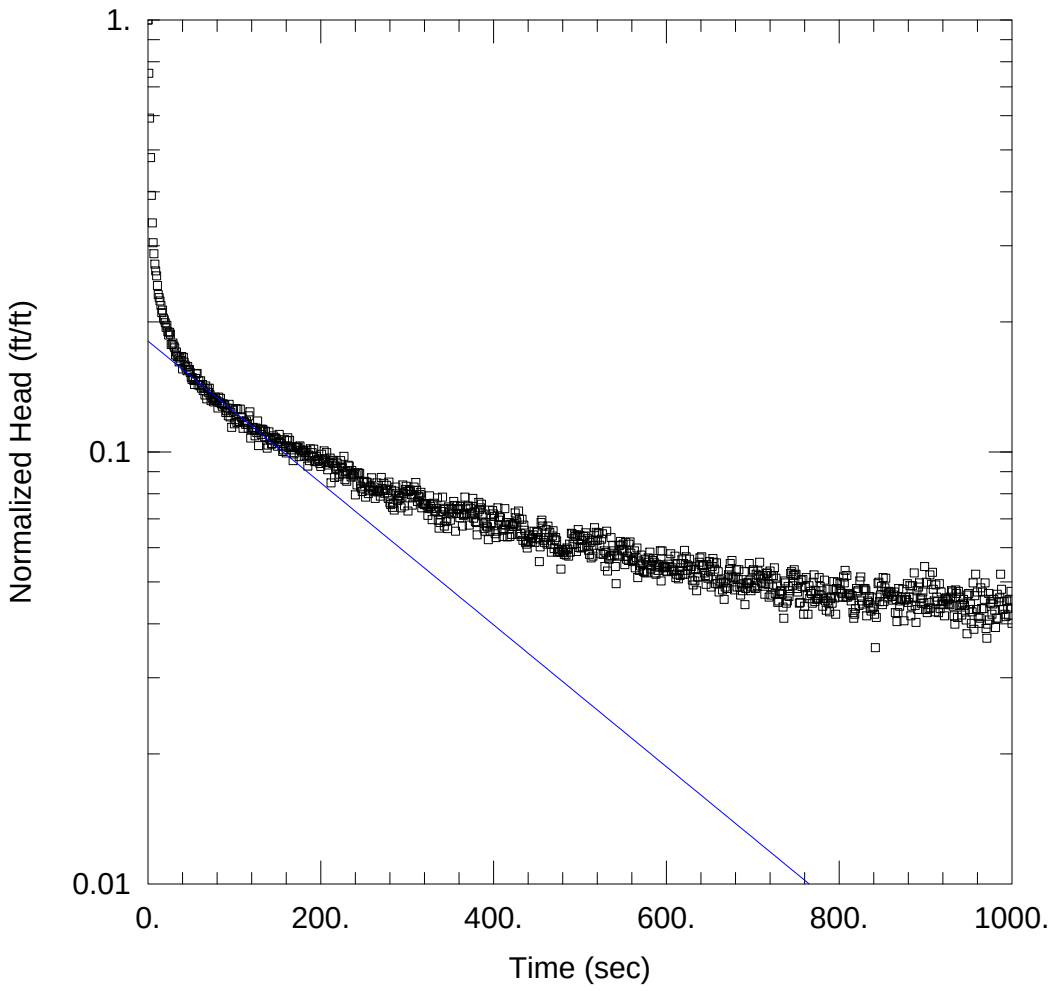
WELL DATA (MW-17)

Initial Displacement: 0.9019 ft
Total Well Penetration Depth: 12.22 ft
Casing Radius: 0.083 ft
Static Water Column Height: 12.22 ft
Screen Length: 10. ft
Well Radius: 0.354 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.0001851 cm/sec y0 = 0.1138 ft



MW-17 RISING 2

Data Set: S:\...\MW-17_Rising2_TD.aqt
Date: 04/15/16 Time: 15:04:23

PROJECT INFORMATION

Company: ERM
Client: I Schneid
Project: 0121021
Location: Georgia
Test Well: MW-17
Test Date: 16 March 2016

AQUIFER DATA

Saturated Thickness: 48. ft Anisotropy Ratio (Kz/Kr): 0.5

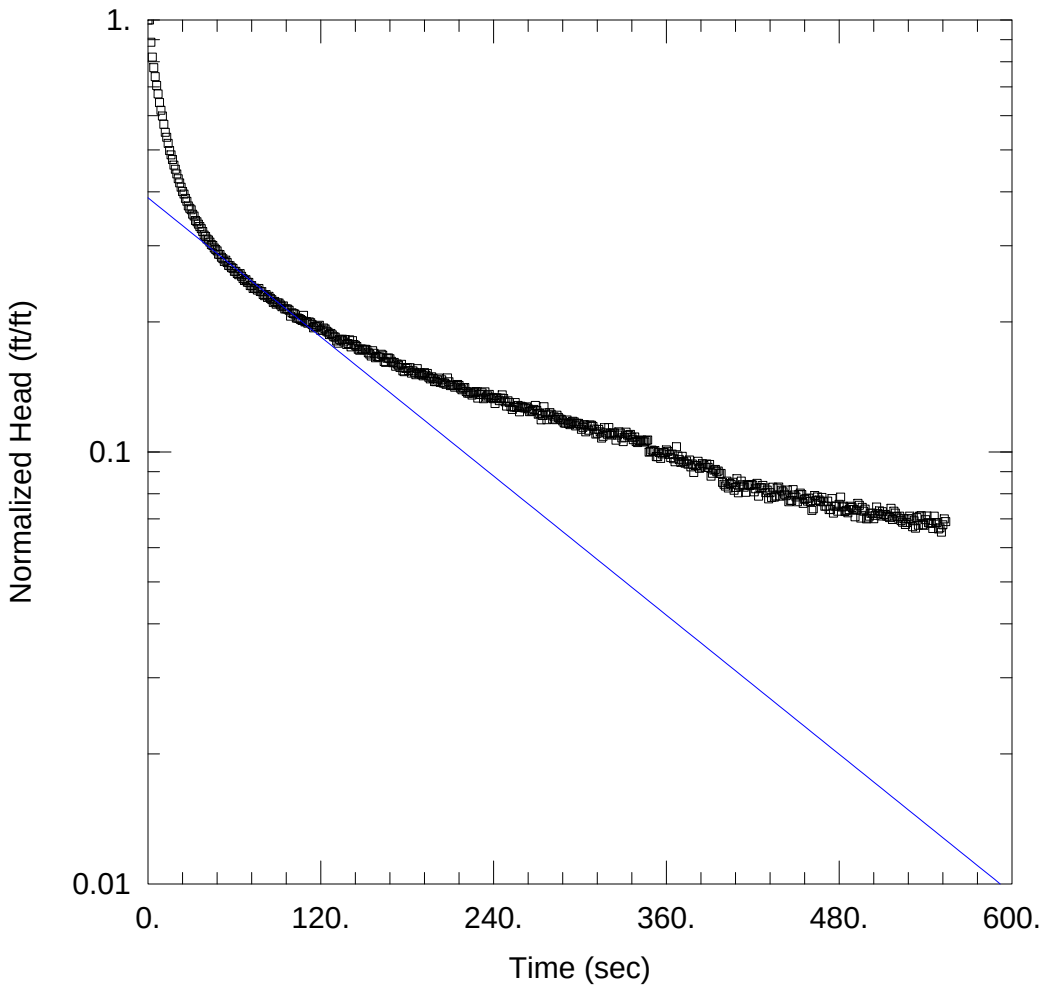
WELL DATA (MW-17)

Initial Displacement: 0.5509 ft
Total Well Penetration Depth: 12.22 ft
Casing Radius: 0.083 ft
Static Water Column Height: 12.22 ft
Screen Length: 10. ft
Well Radius: 0.354 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.0002617 cm/sec y0 = 0.09946 ft



MW-18 FALLING 1

Data Set: S:\...\MW-18_Rising1_TD.aqt
Date: 04/15/16 Time: 15:45:17

PROJECT INFORMATION

Company: ERM
Client: I Schneid
Project: 0121021
Location: Georgia
Test Well: MW-18
Test Date: 16 March 2016

AQUIFER DATA

Saturated Thickness: 52. ft Anisotropy Ratio (Kz/Kr): 0.5

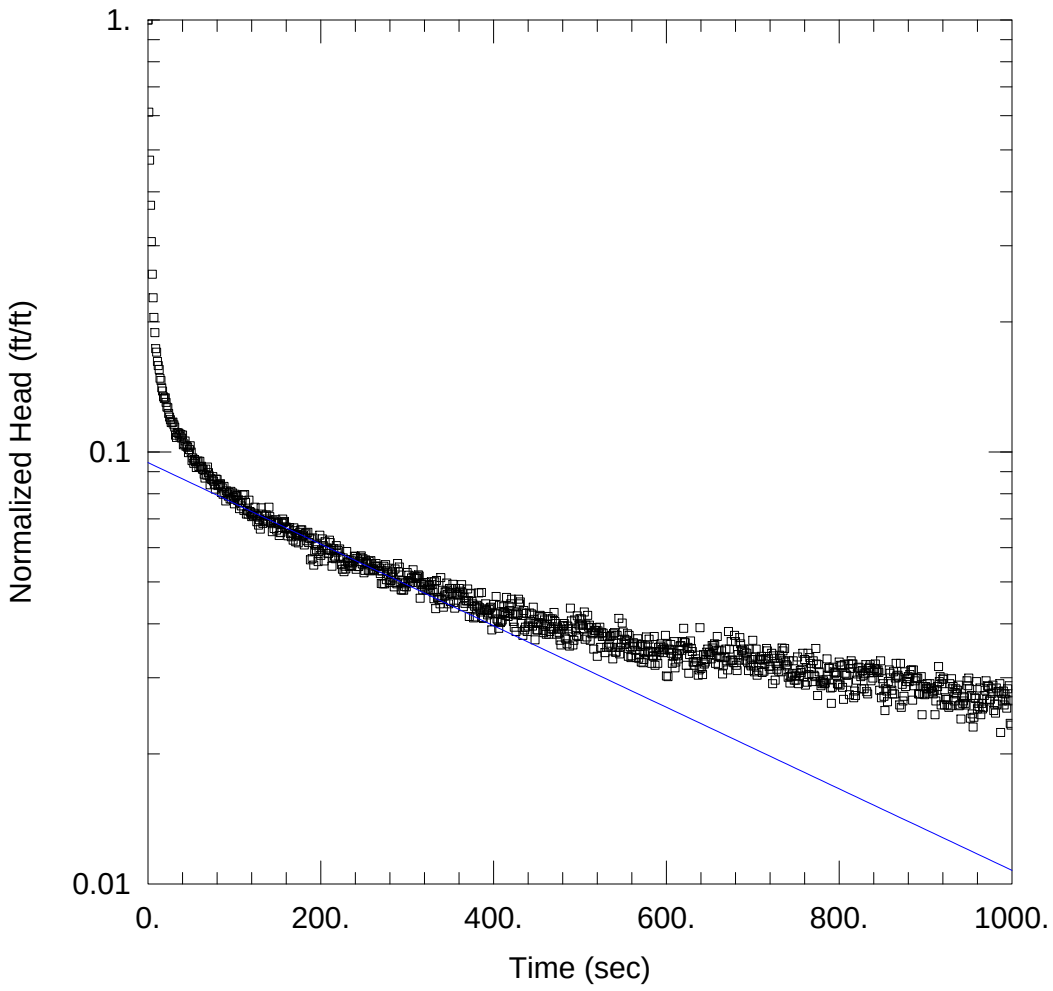
WELL DATA (MW-18)

Initial Displacement: 0.9862 ft
Total Well Penetration Depth: 11.18 ft
Casing Radius: 0.083 ft
Static Water Column Height: 11.18 ft
Screen Length: 10. ft
Well Radius: 0.354 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.0002342 cm/sec y0 = 0.3821 ft



MW-19 RISING 1

Data Set: S:\...\MW-19_Rising1_TD.aqt
Date: 04/15/16 Time: 16:00:16

PROJECT INFORMATION

Company: ERM
Client: I Schneid
Project: 0121021
Location: Georgia
Test Well: MW-19
Test Date: 16 March 2016

AQUIFER DATA

Saturated Thickness: 47. ft Anisotropy Ratio (Kz/Kr): 0.5

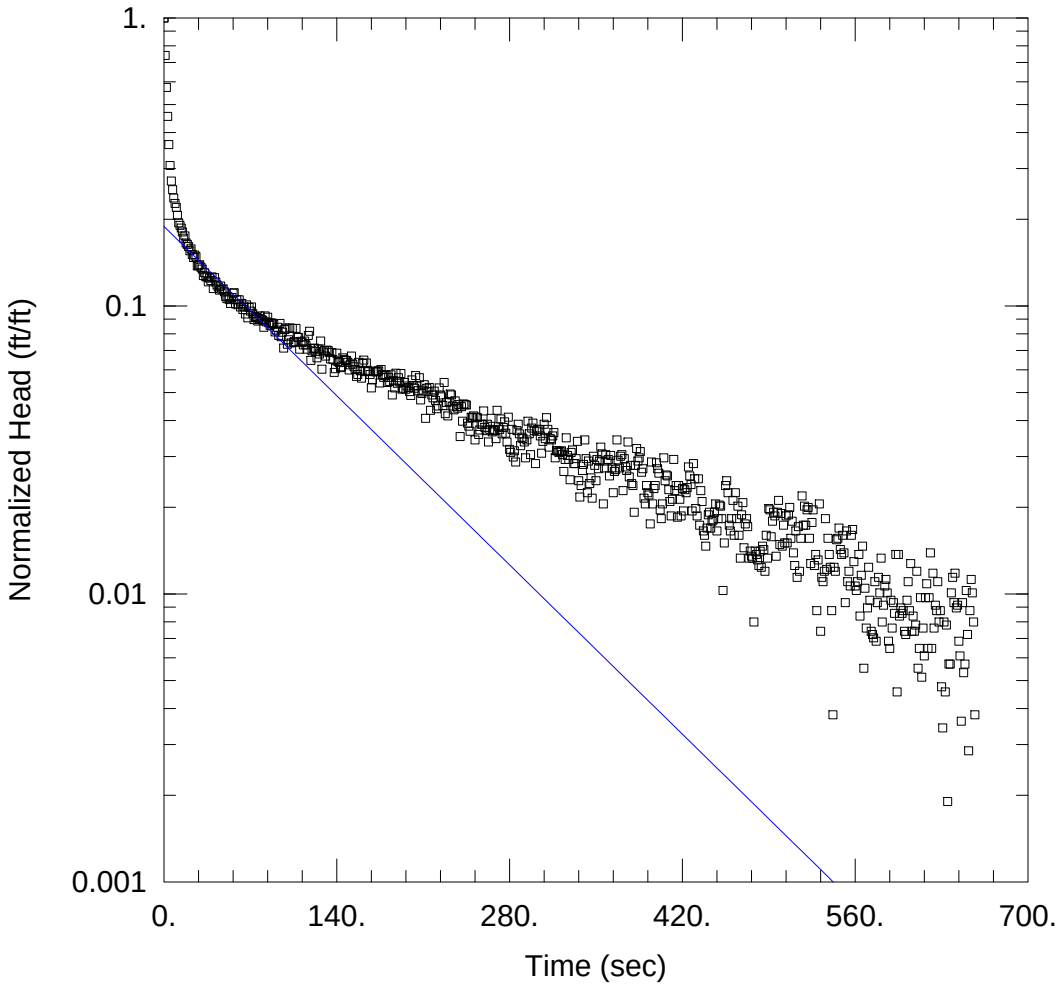
WELL DATA (MW-19)

Initial Displacement: 0.9011 ft
Total Well Penetration Depth: 9.27 ft
Casing Radius: 0.083 ft
Static Water Column Height: 9.27 ft
Screen Length: 9.27 ft
Well Radius: 0.354 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.0003482 cm/sec y0 = 0.08511 ft



MW-19 RISING 2

Data Set: S:\...\MW-19_Rising2_TD.aqt
Date: 04/15/16 Time: 16:00:53

PROJECT INFORMATION

Company: ERM
Client: I Schneid
Project: 0121021
Location: Georgia
Test Well: MW-19
Test Date: 16 March 2016

AQUIFER DATA

Saturated Thickness: 47. ft Anisotropy Ratio (Kz/Kr): 0.5

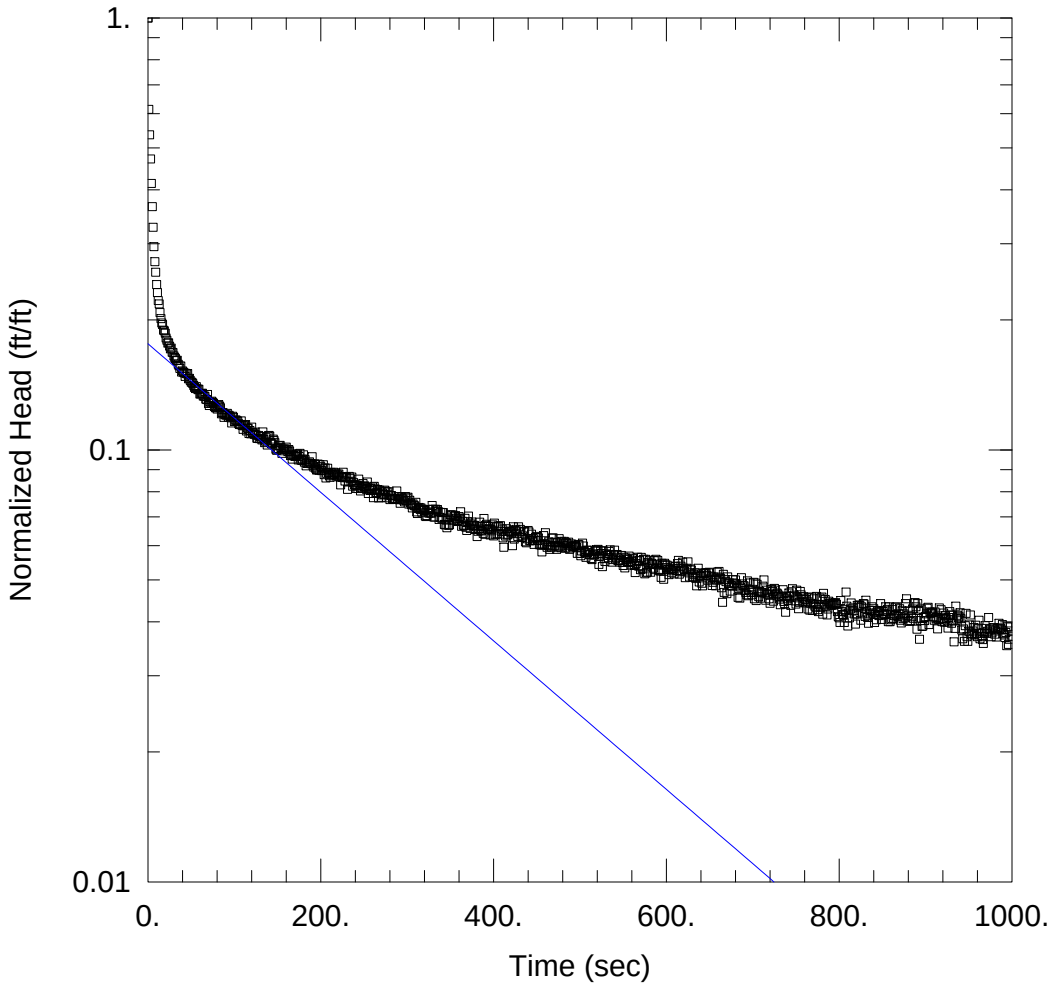
WELL DATA (MW-19)

Initial Displacement: 0.5256 ft
Total Well Penetration Depth: 9.27 ft
Casing Radius: 0.083 ft
Static Water Column Height: 9.27 ft
Screen Length: 9.27 ft
Well Radius: 0.354 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.001548 cm/sec y0 = 0.0992 ft



MW-20 RISING 1

Data Set: S:\...\MW-20_Rising1_TD.aqt
Date: 04/15/16 Time: 16:02:38

PROJECT INFORMATION

Company: ERM
Client: I Schneid
Project: 0121021
Location: Georgia
Test Well: MW-20
Test Date: 16 March 2016

AQUIFER DATA

Saturated Thickness: 48. ft Anisotropy Ratio (Kz/Kr): 0.5

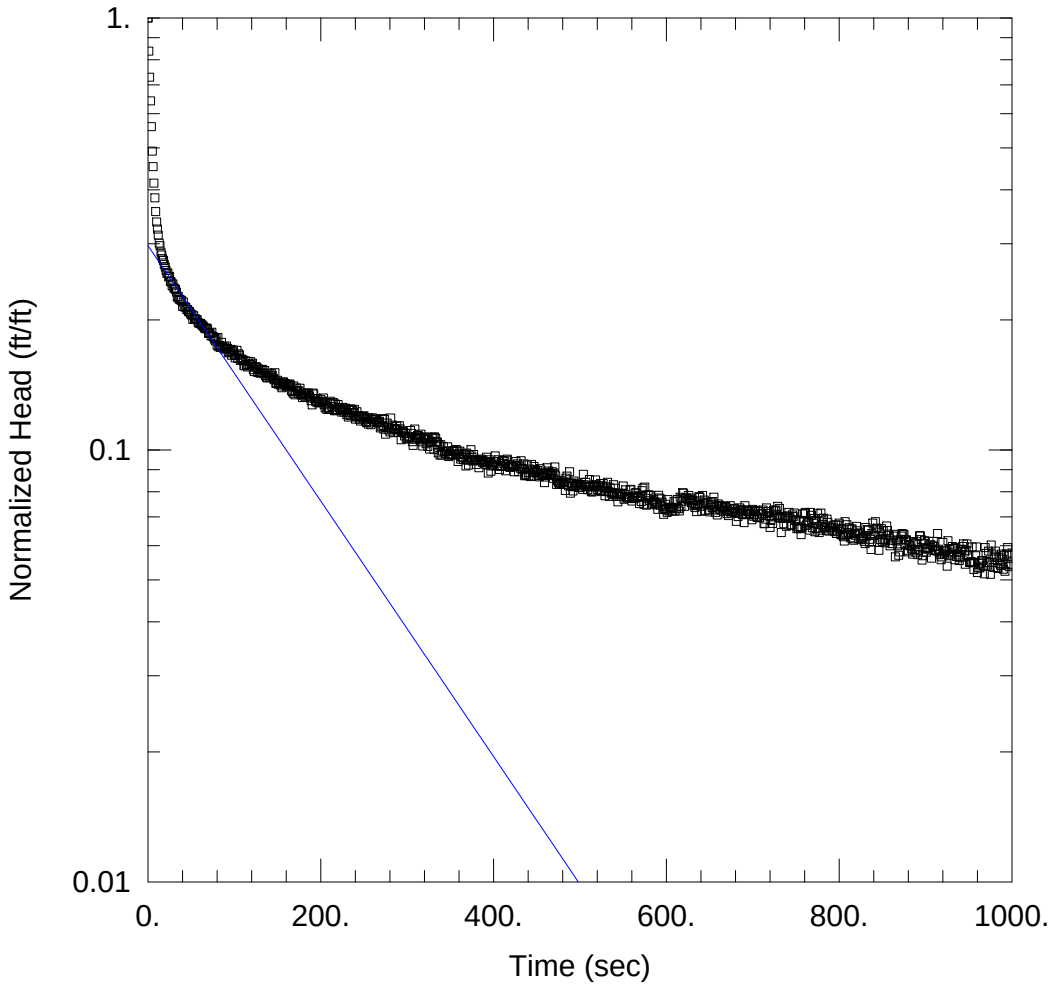
WELL DATA (MW-20)

Initial Displacement: 1.21 ft
Total Well Penetration Depth: 12.98 ft
Casing Radius: 0.083 ft
Static Water Column Height: 12.98 ft
Screen Length: 12.98 ft
Well Radius: 0.26 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.0003294 cm/sec y0 = 0.2129 ft



MW-20 RISING 2

Data Set: S:\...\MW-20_Rising2_TD.aqt
Date: 04/15/16 Time: 16:04:40

PROJECT INFORMATION

Company: ERM
Client: I Schneid
Project: 0121021
Location: Georgia
Test Well: MW-20
Test Date: 16 March 2016

AQUIFER DATA

Saturated Thickness: 48. ft Anisotropy Ratio (Kz/Kr): 0.5

WELL DATA (MW-20)

Initial Displacement: 0.8402 ft
Total Well Penetration Depth: 11.98 ft
Casing Radius: 0.083 ft
Static Water Column Height: 11.98 ft
Screen Length: 11.98 ft
Well Radius: 0.26 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.0005989 cm/sec y0 = 0.2496 ft

Vapor Intrusion Assessment Report
(Electronic Copy Only)
Appendix C

July 27, 2017
Project No. 0121021
Former I. Schneid Facility

Environmental Resources Management

The Towers at Wildwood
3200 Windy Hill Road SE
Suite 1500W
Atlanta, Georgia 30339
Phone (678) 486-2700
Fax (678) 745-0103

August 3, 2016

Mr. Barrett Fischer
Georgia Environmental Protection Division
Response and Remediation Program
2 Martin Luther King, Jr. Drive, Southeast
Suite 1054 East
Atlanta, Georgia 30334

Subject: Vapor Intrusion Assessment Report
Former I. Schneid Facility, HSI Site No. 10753
1429 Fairmount Avenue, N.W.
Atlanta, Georgia

Dear Mr. Fischer:

Attached please find one hard copy and two CD Copies of the *Vapor Intrusion Assessment Report* for the former I-Schneid Facility Site located in Atlanta, Georgia.

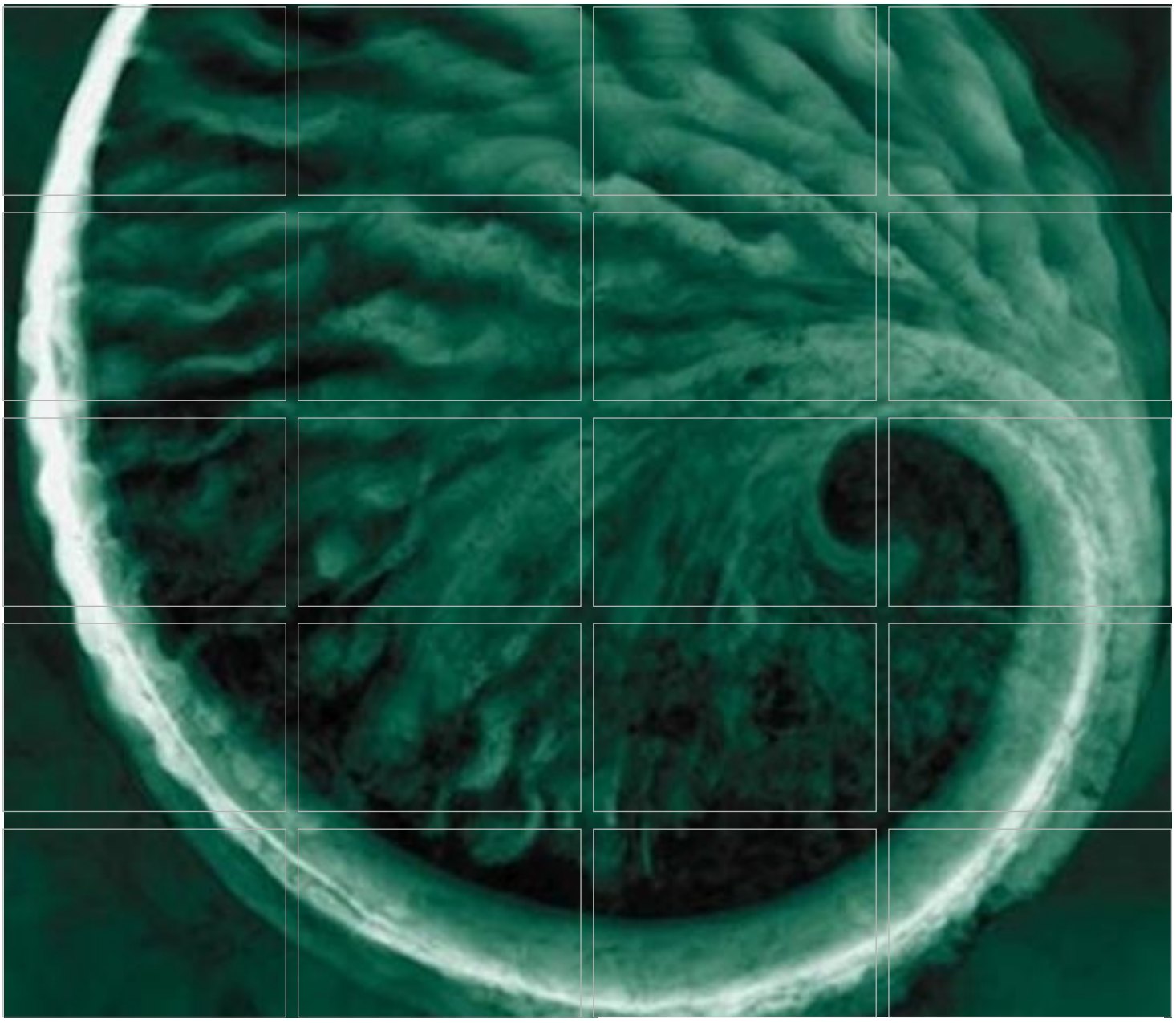
Sincerely,
Please contact us with questions or comments concerning this matter.

Sincerely,

Adria Reimer. P.G.
Georgia P.G. No. 2004

Jeffrey N. Bilkert
Principal

cc: Mr. Stephen Chapman – I.S. Liquidation, LLC



VAPOR INTRUSION ASSESSMENT REPORT

Former I. Schneid Facility

I. Schneid Liquidation, LLC
Atlanta, Georgia

ERM Project No.: 0121021

August 3, 2016

www.erm.com

ERM

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GROUNDWATER SCIENTIST CERTIFICATION STATEMENT

I certify that I am a qualified ground-water scientist who has received a baccalaureate or post-graduate degree in the natural sciences or engineering, and have sufficient training and experience in groundwater hydrology and related fields, as demonstrated by state registration and completion of accredited university courses, that enable me to make sound professional judgments regarding groundwater monitoring and contaminant fate and transport. I further certify that this report was prepared by myself or by a subordinate working under my direction.

Adria L. Reimer, PG#2004

August 3, 2016

1.0 INTRODUCTION

Environmental Resources Management (ERM) has prepared this *Vapor Intrusion Assessment Report* (VIAR) on behalf of I. Schneid Liquidation, LLC (I-Schneid). The report presents the results of a vapor intrusion (VI) assessment performed at the former I. Schneid facility located at 1420 Fairmont Avenue in Atlanta, Fulton County, Georgia (the "Site"). The Site is listed on Georgia's Hazardous Site Inventory (HS I) and is currently regulated under Georgia's Voluntary Remediation Act. The purpose of the assessment was to evaluate the potential for VI of volatile organic compounds (VOCs) into the building and evaluate whether there is an unacceptable VI risk to future workers within this building that warrants additional actions (i.e., assessment and/or mitigation of risk). The assessment was performed as part of the Voluntary Remediation Program (VRP) requirements and in cooperation with the current owners of the property. The assessment was conducted in accordance with ERM's May 25, 2016 *Vapor Intrusion Evaluation Work Plan* (Work Plan, copy included as Appendix A) approved by the Georgia Environmental Protection Division (GAEPD) by email on May 23, 2016.

The VI assessment described in this report included two sampling events: June 8, 2016 and July 5, 2016. The June 2016 event included three sub-slab soil gas samples and two sub-slab multi-depth soil gas samples. The July 2016 sampling event included five indoor air samples and one outdoor air sample at the Site. The June 2016 sampling event was completed to evaluate concentrations of VOCs in soil gas and to evaluate if indoor air sampling was warranted. The July 2016 sampling was completed to evaluate potential impacts to indoor air. The procedures, results and conclusions of the VI assessment are presented in this VIAR.

1.1 OBJECTIVES

The primary objective of the VI assessment was to evaluate whether there is an unacceptable VI risk to future workers in the commercial building due to VOCs or naphthalene in groundwater at the Site that may warrant further action to assess or mitigate.

1.2 REPORT CONTENT AND ORGANIZATION

The remaining sections of this VIAR and a summary of their content are as follows:

Section 2 – provides a description of the procedures used in the assessment;

Section 3 – presents the results of the assessment including the screening levels used for each media and their rationale, and the analytical results of the collected samples; and

Section 4 – provides conclusions derived from the assessment and recommended path forward concerning VI at the former I-Schneid Facility.

2.0 INVESTIGATION PROCEDURES

This section of the VIAR describes the procedures employed during the assessment for conducting Site surveys, sub-slab soil gas sampling and indoor/outdoor ambient air sampling. The procedures were conducted in accordance with the GAEPD-approved *Vapor Intrusion Evaluation Work Plan* unless otherwise indicated in this section of the report.

The location of the former I. Schneid facility is shown on Figure 1.

In summary, the VI assessment consisted of the following:

- Visually surveyed the building to identify and assess sampling locations and building interior conditions to identify potential underground utilities, potential preferential pathways, and materials that could potentially contribute VOCs to indoor air.
- Collected a total of four sub-slab soil vapor samples (three locations and one duplicate sample) and three samples each from two sub-slab multi-depth soil gas sampling locations at the Site to assess VOCs in sub-slab soil vapor.
- Collect a total of five indoor air samples to evaluate VOCs inside the building. An outdoor, ambient air sample was also collected.
- Compared analytical results to applicable screening levels to evaluate whether additional assessment and/or other action is required.

2.1 COMMERCIAL BUILDING SURVEY

Prior to initiation of the field sampling program, ERM completed a building survey to evaluate property-specific conditions that may affect the design and/or results of the sampling program. The building survey included an evaluation of the foundation type and condition, and identification of potential preferential pathways.

2.2 SUB-SLAB SOIL VAPOR SAMPLING

Three sub-slab soil vapor sampling points and two multi-depth soil gas probes [3, 7, and 11 feet below ground surface (ft bgs)] were installed inside the building. The locations of these points and probes are shown on Figure 2. They were selected to be in proximity to groundwater with

the highest level of impact by VOCs and naphthalene. In general, all were located in proximity for former source areas identified previously at the Site. These included the former solvent mixing room, floor drain and sump.

Sub-surface clearance activities were conducted prior to installation activities. Georgia 811 was contacted in accordance with local regulations. Additionally, ERM retained a private utility locator to conduct geophysical surveys utilizing ground penetrating radar (GPR) and cable avoidance tools (CAT) to evaluate potential subsurface utilities in the areas where sub-slab soil vapor sampling points/probes were to be installed. Sample locations were moved as necessary to avoid potential underground utilities.

The June 2016 soil gas sampling event was completed on June 7 and 8, 2016 in accordance with the approved Work Plan. A photo-log of the sampling locations is included in Appendix B. Following sampling point installation, leak checks were performed as described in the approved Work Plan (i.e., water dam and shut-in test). No leaks were observed in the nine sub-slab sampling locations. Prior to sub-slab sampling, a GEM 2000 was used to purge the equivalent volume of the tubing and sand pack to remove any atmospheric air entrained during installation and to obtain soil gas readings for oxygen, CO_2, and methane. Sub-slab soil vapor samples were collected approximately 24 hours after installation of each sampling point. Sampling information, including quality control information, was recorded on the air sampling data sheet (Appendix C). This information included starting and ending vacuum reading of each canister.

Prior to and following collection of sub-slab soil vapor samples, differential pressure measurements were collected. A digital micro-manometer was used at each location to take instantaneous differential pressure readings at each location. Differential pressure readings (i.e., sub-slab pressure relative to indoor air pressure) are included in the results (Section 3.0).

Upon completion of soil vapor sample collection, sub-slab sampling points were capped and left in place.

2.3 INDOOR AIR SAMPLING

The July 2016 sampling event was conducted on July 5, 2016, and included indoor air samples collected at five sampling locations. Approximate

sampling locations are shown on Figure 2. Three samples were co-located at the three sub-slab soil vapor locations in the building and two additional sampling locations were completed in areas of the building further downgradient from the former source area. Indoor air samples were collected concurrently with an outdoor air sample (see Section 2.4). A photo-log of the sampling locations is included in Appendix B. At the time of the indoor air sampling, the building was essentially vacant and had been closed up over the July 4th holiday weekend. No operational HVAC system was present in the building at the time leading up to and during the sampling.

Indoor air samples were collected with 2.7-liter Summa® canisters equipped with 8-hour flow regulators. The canisters and flow regulators were batch certified clean by the laboratory prior to use. The indoor air samples were collected away from exterior windows and doors to the extent possible to avoid potential influence from air exchanges with outdoor air. They were collected at a breathing zone height of approximately 3 to 5 feet above the floor surface.

ERM personnel periodically checked on the Summa® canisters over the 8-hour sampling period to monitor changes in vacuum. Sampling information, including vacuum readings, was recorded on the air sampling data sheet and is included in Appendix C.

2.4 OUTDOOR AIR SAMPLING

The July 2016 sampling event included outdoor ambient air sampling in addition to the indoor air sampling described in Section 2.3. One outdoor ambient air sample was collected on July 5, 2016. The wind on the day of the sampling was estimated to be blowing from the southwest, so the sample was collected on the southwest side of the building approximately 10 feet away from the building wall. The outdoor ambient air sample location is shown on Figure 2 and a photo-log of the sampling location is included in Appendix A.

The outdoor ambient air sample collection was completed in accordance with the Work Plan. The outdoor ambient air sample was collected over an 8-hour period to reflect a commercial exposure scenario. Sample collection procedures were as describe in Section 2.3. The air intake of the Summa® canister was positioned facing downward to protect against rainwater. ERM personnel periodically checked on the Summa® canister over the 8-hour sampling period to monitor changes in vacuum and note activity in the vicinity of the sample location. Sampling information,

including vacuum readings, was recorded on the air sampling data sheet and is included in Appendix C.

2.5 ANALYTICAL METHODS

Samples were analyzed by Alpha Analytical Laboratory of Mansfield, Massachusetts, which is approved by Georgia through the National Environmental Laboratory Accreditation Program (NELAP). Sub-slab soil vapor samples were analyzed for VOCs using USEPA TO-15 Full Scan. Indoor and outdoor air samples were analyzed for VOCs using USEPA TO-15 selective ion monitoring (SIM). Analytical results were reported for a Site-specific list of VOCs, including naphthalene, as detailed in the Work Plan.

3.0 RESULTS

This section of the VIAR summarizes the results of the building survey, and sub-slab soil vapor, indoor and outdoor ambient air sampling. Laboratory analytical results from June 2016 sub-slab sampling event are summarized in Table 1 and Figure 3. Laboratory analytical results from July 2016 indoor air sampling event are summarized in Table 2 and Figure 4. Laboratory analytical reports for both events are provided in Appendix D.

3.1 BUILDING SURVEY RESULTS

A visual survey of the former I-Schneid facility building was conducted prior to the June 2016 sampling event. Building survey information was primarily used to facilitate evaluation of indoor air data. The following summarizes the observations from the survey:

- the building is vacant;
- numerous cracks, drains, groundwater monitoring wells are located within the building's concrete floor creating potential vapor intrusion preferential pathways; and
- drums filled with soil from environmental investigations were staged inside the building. Drum covers were in place, however.

3.2 DIFFERENTIAL PRESSURE READINGS

Differential pressure readings (i.e., sub-slab pressure relative to indoor air pressure) were collected both before each sub-slab soil vapor sample was collected. Readings at each sub-slab sample location were as follows:

June 2016

- SG-1-3′ = +0.008 inches water column (inWC),
- SG-1-7′ = +0.003 inWC,
- SG-1-11′ = -0.007 inWC,
- SG-2-3′ = -0.002 inWC,
- SG-2-7′ = +0.002 inWC,
- SG-2-11′ = +0.006 inWC,

- SSV-1 = +0.002 inWC,
- SSV-2 = -0.001 inWC, and
- SSV-3 = +0.001 inWC.

Differential pressure measurements recorded little to no positive pressure in the sub-surface as compared to indoor air. Advective air flow moves from areas of higher pressure to areas of lower pressure. The data in the building support the indication that there is not a significant preference for air to flow from the subsurface to the indoor air.

3.3 ANALYTICAL RESULTS

3.3.1 Screening Levels

Analytical results for sub-slab soil vapor and indoor air were compared to USEPA Vapor Intrusion Screening Levels. Screening levels for the sub-slab assessment were derived using the USEPA VISL Calculator Version 3.4 dated June 2015. Screening levels for the indoor air assessment were derived using the USEPA VISL Calculator Version 3.5.1 dated May 2016. A commercial exposure scenario was selected within the VISL calculator. A $1x10^{-5}$ target risk for carcinogens was selected and a target hazard quotient of 1.0 was used for non-carcinogens. The derived values for the VISLs for each Site-specific VOC and sample media are included in their respective analytical results tables (Table 1 and Table 2).

3.3.2 Sub-Slab

The June 2016 sub-slab soil vapor analytical results are presented in Table 1. Also shown in Table 1 are the commercial and residential VISL for sub-slab soil gas calculated as described in Section 3.3.1. A summary of the results is as follows:

- 1,4-Dichlorobenzene (1,4-DCB), ethylbenzene, naphthalene, o-xylene, and m/p xylene were detected in sub-slab and multi-depth soil gas samples at concentrations higher than their respective residential VISL.
- To a greater extent, 1,4-DCB, ethylbenzene, naphthalene, o-xylene, and m/p xylene were detected in sub-slab and multi-depth soil gas samples at concentrations higher than their respective commercial VISL.

- Chlorobenzene was detected on one multi-depth soil gas sample (SG-1, 11 ft bgs) at a concentration higher than its residential VISL.

These results indicated that additional assessment activities were required to obtain analytical data for indoor air samples to evaluate whether sub-slab VOC concentrations in soil gas were affecting indoor air quality and to determine if there is an unacceptable VI risk to future building occupants. This additional sampling in the building was performed in July 2016 and the results are presented below in Section 3.3.3.

3.3.3 Indoor Air

Results of the July 2016 indoor/outdoor ambient air analytical results are presented in Table 2. Also shown in Table 2 are the commercial and residential VISL for indoor air calculated as described in Section 3.3.1. A summary of the results is as follows:

- No exceedences of residential or commercial VISLs;
- Chorobenzene was not detected in any of the samples collected.
- Concentrations of ethylbenzene and xylenes were higher in the outdoor air than in indoor air indicating that the indoor air concentration were likely attributable to upwind sources ; and
- The Target Risk for Carcinogens (R) associated with the highest detected concentrations of 1,4-DCE and naphthalene were at least 1.5 orders of magnitude below commercial VISLs ($R = 1 \times 10^{-5}$) at a calculated $R = 8.8 \times 10^{-6}$ and $R = 5.3 \times 10^{-6}$, respectively.

These results indicate that VOCs detected in the sub-slab soil vapor samples do not currently present an unacceptable VI risk to future occupants of the I. Schneid facility building. Consequently, no further action is related to VI is warranted. Nevertheless, ERM understands that the concrete floor slab will be repaired/patched, and all trench drains and sumps will be filled with concrete as part future building renovations. Furthermore, a new HVAC system will be installed in the building. These renovations will serve to further decrease the potential for vapor intrusion.

4.0 CONCLUSIONS

Sub-slab soil vapor sampling and analyses were conducted at the former I. Schneid facility in June 2016. The results of the sampling/analyses indicated that further VI assessment was warranted. This conclusion was based on the reported concentrations of 1,4-DCE, ethylbenzene, naphthalene, and xylenes exceeding their respective commercial VISLs for sub-slab soil gas.

Although there are sub-slab VISL exceedances, the results of the July 2016 indoor air sampling/analyses indicate that VOCs detected in the sub-slab soil vapor samples do not present a VI risk to future building occupants. This conclusion is based on the following:

- None of the VOCs detected in sub-slab soil gas at concentrations above their respective soil vapor VISLs were detected in indoor air samples above their indoor air VISL; and
- Only two VOCs were detected in indoor air samples at concentrations above outdoor air concentrations, and the calculated R associated with the highest detected concentrations for each were at least 1.5 orders of magnitude below commercial VISLs.

The results of the VI assessment indicate that no further assessment at the former I. Schneid facility building is warranted. Future building renovations, including improvements to the concrete floor slab and installation of a new HVAC system will further decrease any VI risk.

Tables

August 2016
Project No. 0121021
I. Schneid Liquidation
Atlanta, GA

Environmental Resources Management
3200 Windy Hill Rd. Suite 1500W
Atlanta, GA 30339
(678) 486-2700

Table 1
Vapor Intrusion Assessment - Soil Gas Results
Former I. Schnied Facility
Atlanta, Georgia

Site-Specific VOCs	Soil Gas		Multi-Depth Soil Gas ID, Depth (ft bgs), and Sampling Date						Sub-Slab Soil Gas ID and Sampling Date		
	EPA VISLs Sub-Slab $R=10^{-5}$, HI=1.0	EPA VISLs Sub-Slab $R=10^{-5}$, HI=1.0	SG-1			SG-2					
	Residential [µg/m^3]	Commercial [µg/m^3]	11'	7'	3'	11'	7'	3'	SSV-1	SSV-2	SSV-3
			8-Jun-16	8-Jun-16	8-Jun-16	8-Jun-16	8-Jun-16	8-Jun-16	8-Jun-16	8-Jun-16	8-Jun-16
Chlorobenzene	1,700	7,300	2,650	< 89.3	< 228	636	295	310	5.43	< 4.61	0.539
1,4-Dichlorobenzene	85	370	16,800	35,200	95,600	848	536	372	66.1	127	52.2
Naphthalene	28	120	3,160	13,500	19,500	241	417	126	58.7	128	81.8
Ethylbenzene	370	1,600	9,340	15,800	64,700	1,380	116	109	24.8	32.3	4.56
o-Xylene	3,500	15,000	19,000	23,500	85,100	3,680	1,720	2,660	40.1	72.1	13.6
p/m-Xylene	3,500	15,000	37,900	73,400	82,100	6,250	1,250	2,000	133	170	28.7

Notes:

EPA Screening Levels calculated using EPA's Vapor Intrusion Screening Level Calculator Version 3.4 June 2015.

Bold and highlighted - exceeds Commercial screening level.

Bold and highlighted - exceeds Residential screening level.

Soil gas results reporting in µg/m^3.

µg/m^3 = micrograms per cubic meter.

Table 2
Vapor Intrusion Assessment - Indoor Air Results
Former I-Schnied Facility
Atlanta, Georgia

Site-Specific VOCs	Indoor Air EPA VISLs $R=10^{-5}$, HI=1.0	Indoor Air EPA VISLs $R=10^{-5}$, HI=1.0	Indoor Air Sample ID and Sampling Date					Outdoor Ambient Air Sample ID and Sampling Date	VI Carcinogenic Risk	VI Hazard
	Residential [µg/m3]	Commercial [µg/m3]	IA-01 5-Jul-16	IA-02 5-Jul-16	IA-03 5-Jul-16	IA-04 5-Jul-16	IA-05 5-Jul-16	OA-01 5-Jul-16	Carcinogenic Risk	Hazard Quotient
Chlorobenzene	52	220	< 0.461	< 0.461	< 0.461	< 0.461	< 0.461	< 0.461	NA	NA
1,4-Dichlorobenzene	2.6	11	0.475	0.559	0.343	2.25	0.709	< 0.120	8.8E-06	2.7E-03
Naphthalene	0.83	3.6	0.304	< 0.262	0.346	0.440	< 0.262	< 0.262	5.3E-06	1.4E-01
Ethylbenzene	11	49	0.143	0.126	0.143	0.265	0.204	0.764	NA	NA
o-Xylene	100	440	0.182	0.161	0.182	0.291	0.235	0.595	NA	NA
p/m-Xylene	100	440	0.430	0.391	0.473	0.856	0.647	2.1	NA	NA

Notes:

EPA Screening Levels calculated using EPA's Vapor Intrusion Screening Level Calculator Version 3.5.1 May 2016.

Indoor/Outdoor air results reporting in $\mu g/m^3$.

$\mu g/m^3$ = micrograms per cubic meter.

NA - not applicable - indoor air concentrations were either below detection limits or below outdoor air concentrations.

Figures

August 2016
Project No. 0121021
I. Schneid Liquidation
Atlanta, GA

Environmental Resources Management
3200 Windy Hill Rd. Suite 1500W
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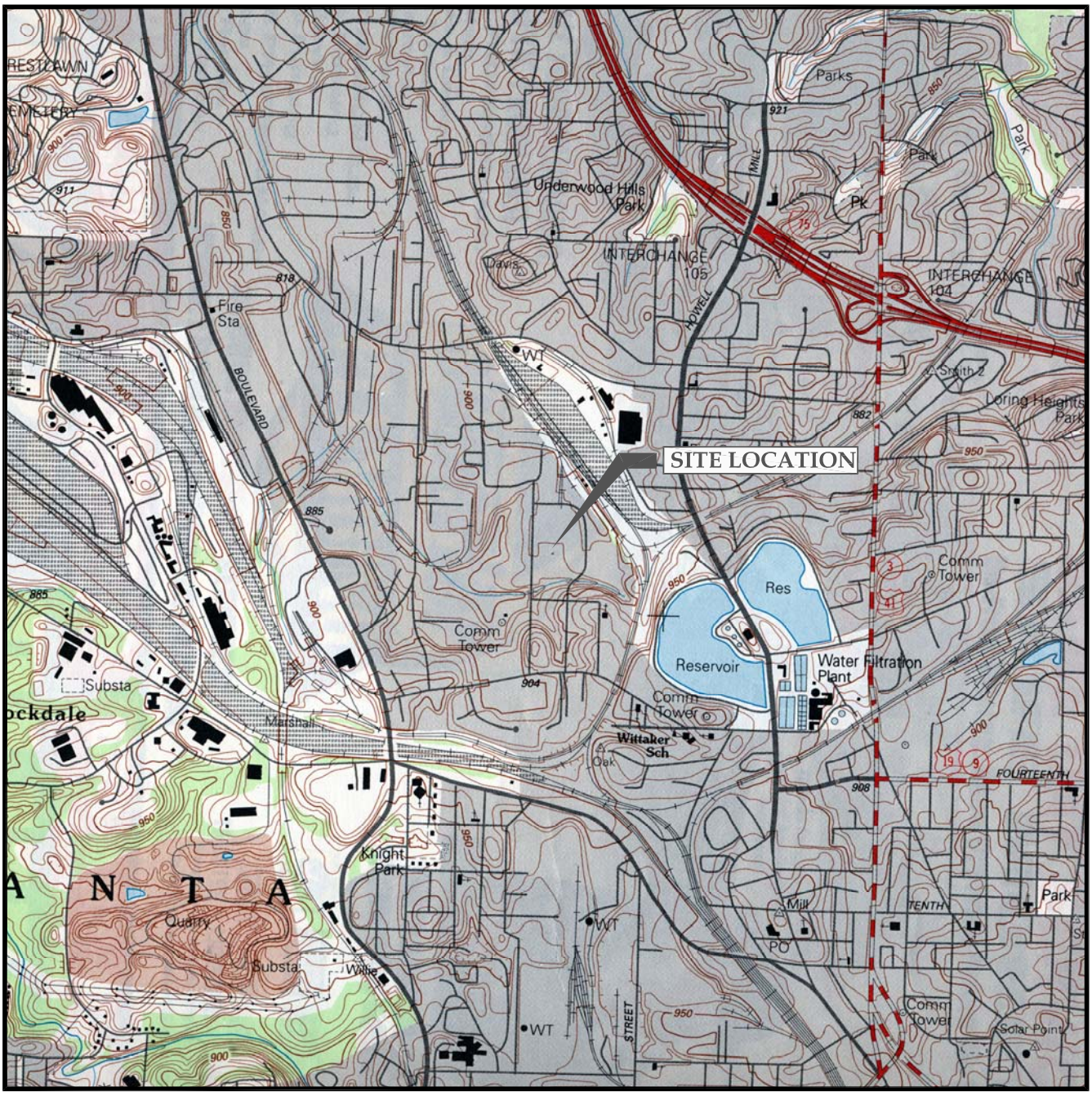


SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC QUADRANGLE: NORTHWEST ATLANTA, GA – 1993

SCALE 1:24000

1 1/2 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

N

GEORGIA

QUADRANGLE LOCATION

CONTOUR INTERVAL 10 FEET

DOTTED LINES REPRESENT 5–FOOT CONTOURS
NATIONAL GEODETIC VERTICAL DATUM OF 1929

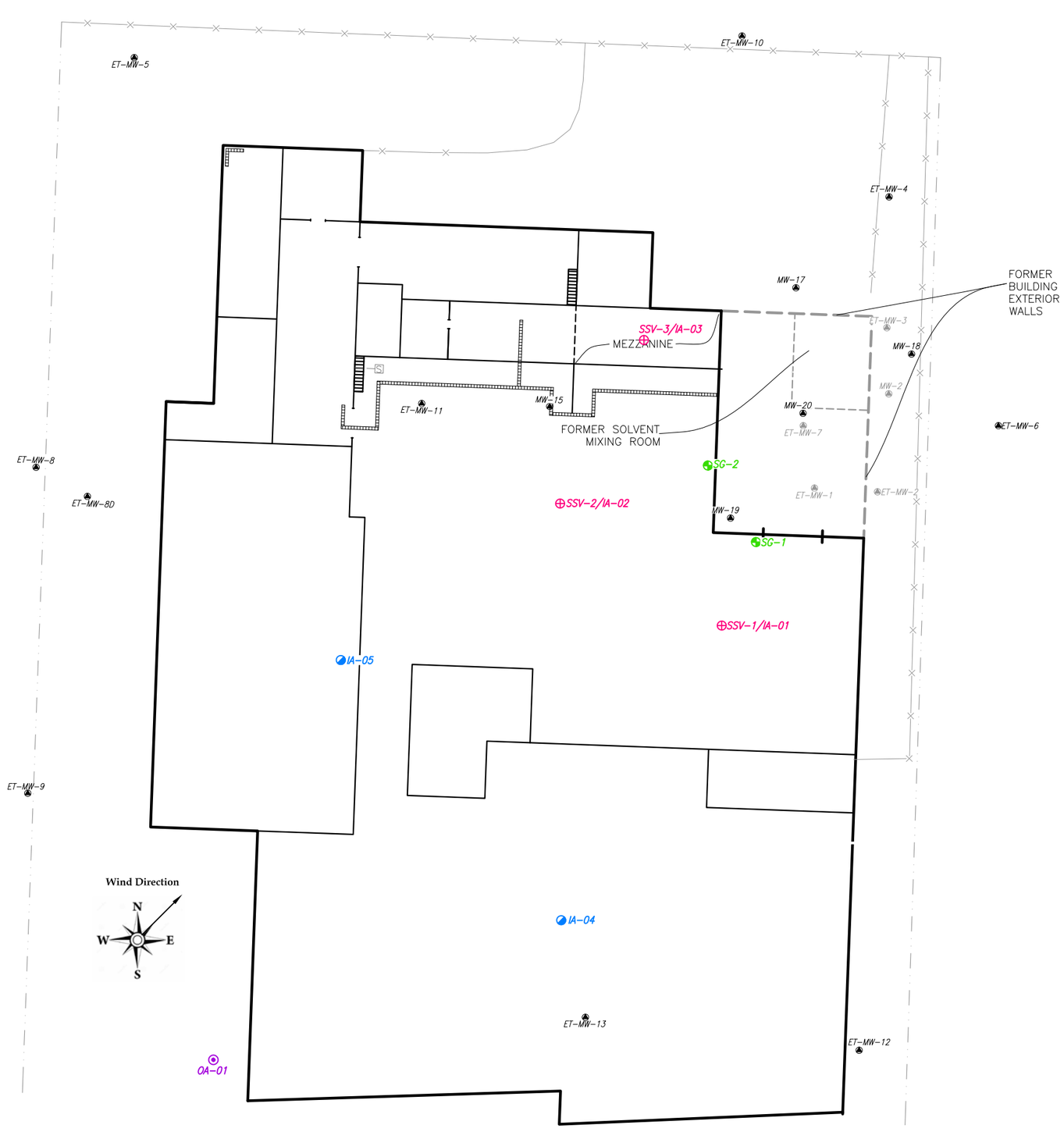
REV SPV 7/21/16 121021Site0.DWG

ERM Environmental Resources Management

SITE LOCATION MAP

VAPOR INTRUSION ASSESSMENT REPORT
I. SCHNEID FACILITY
ATLANTA, GEORGIA

FIGURE 1



LEGEND

- ET-MW-8 — MONITOR WELL LOCATION
- ET-MW-1 — ABANDONED MONITOR WELL LOCATION
- FLOOR DRAIN
- SUMP
- STAIRS
- FENCE LINE
- PROPERTY LINE
- MULTI-DEPTH SAMPLE LOCATION
- SUB-SLAB AND INDOOR AIR SAMPLE LOCATION
- INDOOR AIR SAMPLE LOCATION
- OUTDOOR AIR SAMPLE LOCATION

N

0 40 80
SCALE FEET

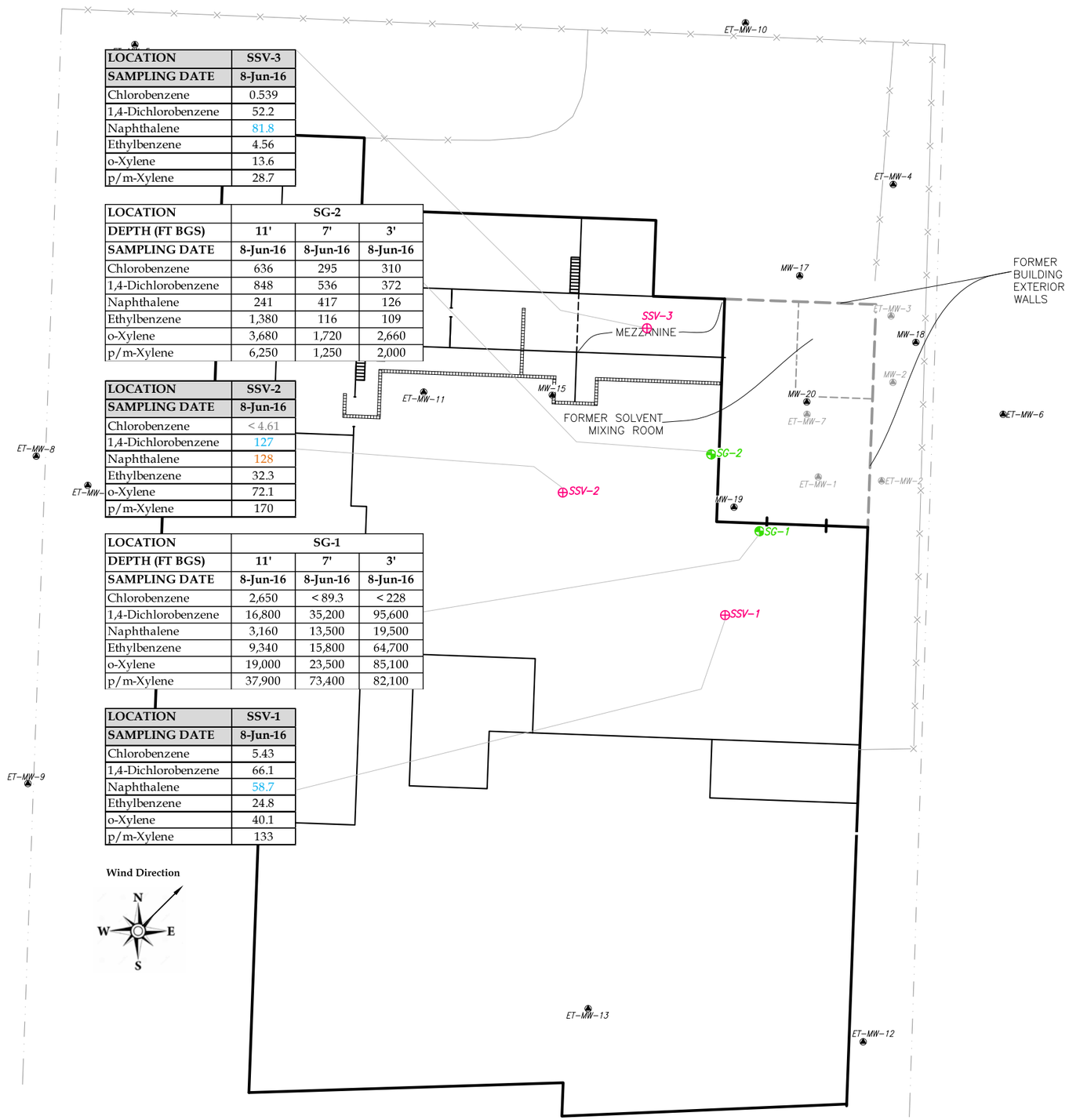
Environmental Resources Management

FIGURE 2
SAMPLE LOCATION MAP
VAPOR INTRUSION ASSESSMENT REPORT
I. SCHNEID FACILITY
ATLANTA, FULTON COUNTY, GEORGIA

DESIGN: SV	DRAWN: SV	CHKD.: NV
DATE: 7/25/2016	SCALE: AS SHOWN	REV.: 0

W.O.NO.: S:\0121021 - I Schneid\Files\FIGURES\121021 ISL\2016\07 2016\121021Site.dwg

ERM



LOCATION	SSV-3
SAMPLING DATE	8-Jun-16
Chlorobenzene	0.539
1,4-Dichlorobenzene	52.2
Naphthalene	81.8
Ethylbenzene	4.56
o-Xylene	13.6
p/m-Xylene	28.7

LOCATION	SG-2		
DEPTH (FT BGS)	11'	7'	3'
SAMPLING DATE	8-Jun-16	8-Jun-16	8-Jun-16
Chlorobenzene	636	295	310
1,4-Dichlorobenzene	848	536	372
Naphthalene	241	417	126
Ethylbenzene	1,380	116	109
o-Xylene	3,680	1,720	2,660
p/m-Xylene	6,250	1,250	2,000

LOCATION	SSV-2
SAMPLING DATE	8-Jun-16
Chlorobenzene	< 4.61
1,4-Dichlorobenzene	127
Naphthalene	128
Ethylbenzene	32.3
o-Xylene	72.1
p/m-Xylene	170

LOCATION	SG-1		
DEPTH (FT BGS)	11'	7'	3'
SAMPLING DATE	8-Jun-16	8-Jun-16	8-Jun-16
Chlorobenzene	2,650	< 89.3	< 228
1,4-Dichlorobenzene	16,800	35,200	95,600
Naphthalene	3,160	13,500	19,500
Ethylbenzene	9,340	15,800	64,700
o-Xylene	19,000	23,500	85,100
p/m-Xylene	37,900	73,400	82,100

LOCATION	SSV-1
SAMPLING DATE	8-Jun-16
Chlorobenzene	5.43
1,4-Dichlorobenzene	66.1
Naphthalene	58.7
Ethylbenzene	24.8
o-Xylene	40.1
p/m-Xylene	133

Wind Direction

LEGEND

- ET-MW-8 — MONITOR WELL LOCATION
- ET-MW-1 — ABANDONED MONITOR WELL LOCATION
- FLOOR DRAIN
- SUMP
- STAIRS
- FENCE LINE
- PROPERTY LINE
- MULTI-DEPTH SAMPLE LOCATION
- SUB-SLAB SAMPLE LOCATION

N

2,650 > RESIDENTIAL VISL, < COMMERCIAL VISL (BLUE TEXT)

16,800 > COMMERCIAL VISL (ORANGE TEXT)

	Soil Gas VISL	
	EPA VISLs Sub-Slab $R=10^{-5}$, HI=1.0	EPA VISLs Sub-Slab $R=10^{-5}$, HI=1.0
	Residential	Commercial
	[µg/m^3]	[µg/m^3]
Chlorobenzene	1,700	7,300
1,4-Dichlorobenzene	85	370
Naphthalene	28	120
Ethylbenzene	370	1,600
o-Xylene	3,500	15,000
p/m-Xylene	3,500	15,000

Results are µg/m^3

0 40 80

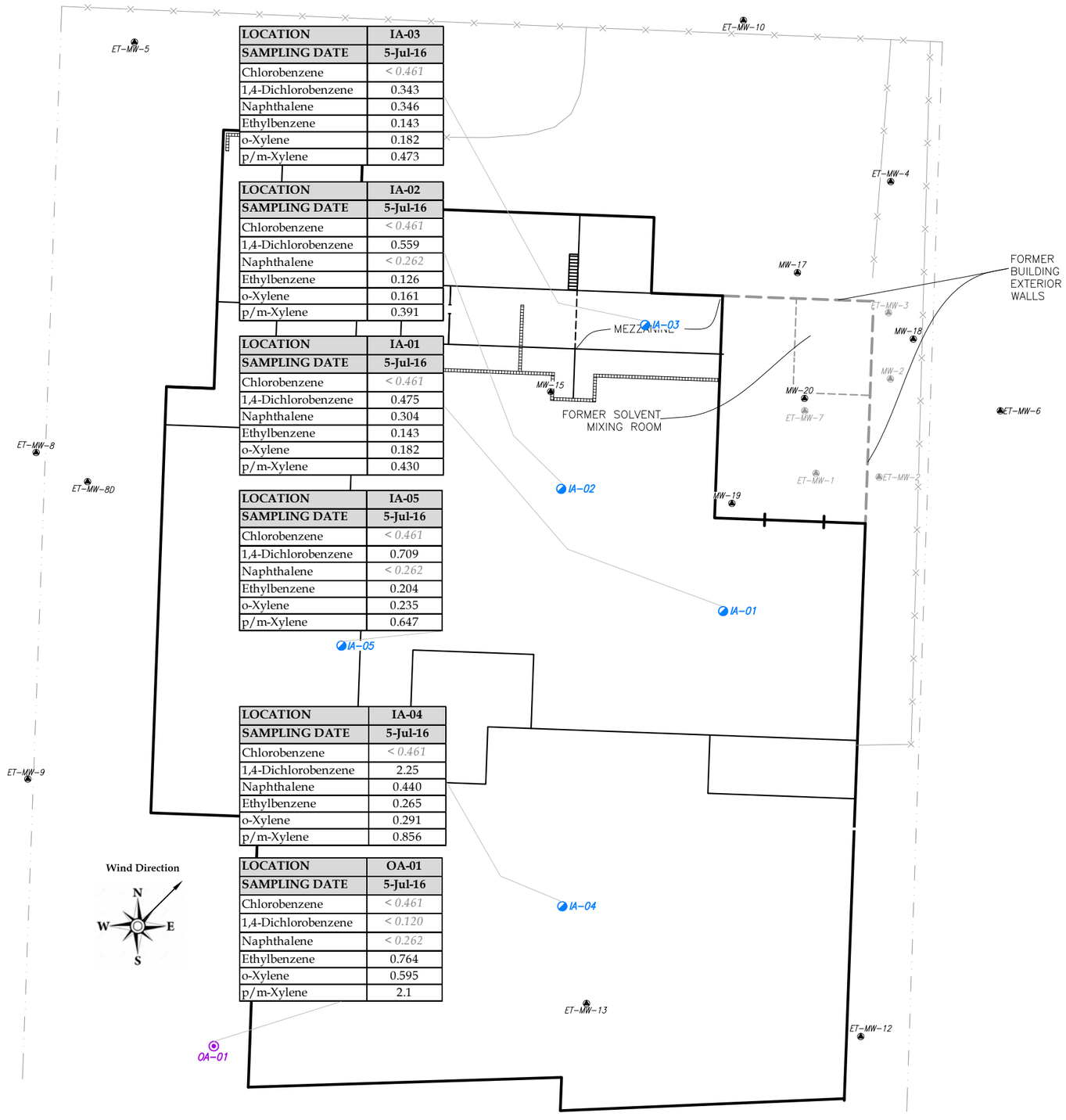
SCALE FEET

Environmental Resources Management

FIGURE 3
SUB-SLAB SOIL GAS ANALYTICAL RESULTS - JUNE 2016
VAPOR INTRUSION ASSESSMENT REPORT
I. SCHNEID FACILITY
ATLANTA, FULTON COUNTY, GEORGIA

DESIGN: SV	DRAWN: SV	CHKD.: NV
DATE: 7/25/2016	SCALE: AS SHOWN	REV.: 0

W.O.NO.: S:\0121021 - I Schneid\Files\FIGURES\121021 ISL\2016\07 2016\121021Site.dwg



LOCATION	IA-03
SAMPLING DATE	5-Jul-16
Chlorobenzene	< 0.461
1,4-Dichlorobenzene	0.343
Naphthalene	0.346
Ethylbenzene	0.143
o-Xylene	0.182
p/m-Xylene	0.473

LOCATION	IA-02
SAMPLING DATE	5-Jul-16
Chlorobenzene	< 0.461
1,4-Dichlorobenzene	0.559
Naphthalene	< 0.262
Ethylbenzene	0.126
o-Xylene	0.161
p/m-Xylene	0.391

LOCATION	IA-01
SAMPLING DATE	5-Jul-16
Chlorobenzene	< 0.461
1,4-Dichlorobenzene	0.475
Naphthalene	0.304
Ethylbenzene	0.143
o-Xylene	0.182
p/m-Xylene	0.430

LOCATION	IA-05
SAMPLING DATE	5-Jul-16
Chlorobenzene	< 0.461
1,4-Dichlorobenzene	0.709
Naphthalene	< 0.262
Ethylbenzene	0.204
o-Xylene	0.235
p/m-Xylene	0.647

LOCATION	IA-04
SAMPLING DATE	5-Jul-16
Chlorobenzene	< 0.461
1,4-Dichlorobenzene	2.25
Naphthalene	0.440
Ethylbenzene	0.265
o-Xylene	0.291
p/m-Xylene	0.856

LOCATION	OA-01
SAMPLING DATE	5-Jul-16
Chlorobenzene	< 0.461
1,4-Dichlorobenzene	< 0.120
Naphthalene	< 0.262
Ethylbenzene	0.764
o-Xylene	0.595
p/m-Xylene	2.1

LEGEND

- MONITOR WELL LOCATION (ET-MW-8)
- ABANDONED MONITOR WELL LOCATION (ET-MW-1)
- FLOOR DRAIN
- SUMP
- STAIRS
- FENCE LINE
- PROPERTY LINE
- INDOOR AIR SAMPLE LOCATION
- OUTDOOR AIR SAMPLE LOCATION

N

	Indoor Air VISL EPA VISLs Sub-Slab Soil Gas $R=10^{-5}$, HI=1.0	Indoor Air VISL EPA VISLs Sub-Slab Soil Gas $R=10^{-5}$, HI=1.0
	Residential	Commercial
	[µg/m3]	[µg/m3]
Chlorobenzene	52	220
1,4-Dichlorobenzene	2.6	11
Naphthalene	0.83	3.6
Ethylbenzene	11	49
o-Xylene	100	440
p/m-Xylene	100	440

Results are µg/m^3

0 40 80
SCALE FEET

Environmental Resources Management

FIGURE 4
INDOOR AND OUTDOOR AIR
ANALYTICAL RESULTS - JUNE 2016
VAPOR INTRUSION ASSESSMENT REPORT
I. SCHNEID FACILITY
ATLANTA, FULTON COUNTY, GEORGIA

DESIGN: SV	DRAWN: SV	CHKD.: NV
DATE: 7/25/2016	SCALE: AS SHOWN	REV.: 0

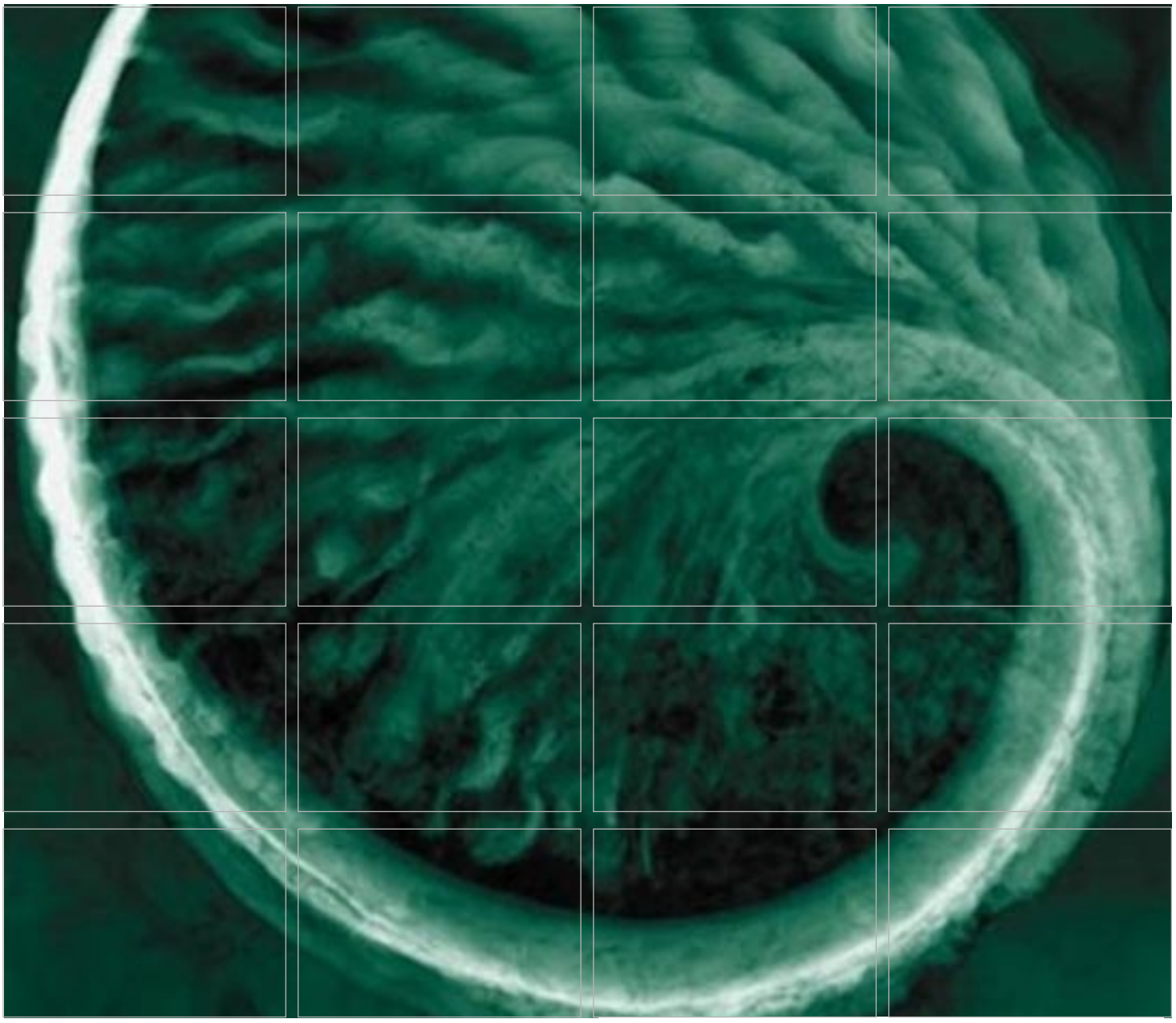
W.O.NO.: S:\0121021 - I Schneid\Files\FIGURES\121021 ISL\2016\07 2016\121021Site.dwg

Vapor Intrusion Evaluation Work Plan

Appendix A

August 2016
Project No. 0121021
I. Schneid Liquidation
Atlanta, GA

Environmental Resources Management
3200 Windy Hill Rd. Suite 1500W
Atlanta, GA 30339
(678) 486-2700



VAPOR INTRUSION EVALUATION WORK PLAN

Former I-Schneid Facility
HSI #10753 in Atlanta, Fulton County, Georgia
ERM Project No.: 0121021

May 25, 2016

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TABLE OF CONTENTS

TABLE OF CONTENTS Cont.

FIGURES

APPENDICES

1.0 PURPOSE AND SCOPE

The purpose of this Vapor Intrusion Evaluation Work Plan ("Work Plan") is to document the field procedures that will be used collect/analyze samples to evaluate the potential for vapor intrusion (VI) at the former I-Schneid Facility located at 1420 Fairmont Avenue in Atlanta, Fulton County, Georgia (Site).

1.1 VAPOR INTRUSION EVALUATION OVERVIEW

The Georgia Environmental Protection Division (EPD) has not developed guidance regarding implementation of VI investigations; therefore, ERM has relied on the following documents to prepare this Work Plan in a manner consistent with the current state of the practice:

- Interstate Technical Regulatory Council's (ITRC's) *Vapor Intrusion Pathway: A Practical Guideline*, dated January 2007.
- United States Environmental Protection Agency (US EPA) Office of Solid Waste and Emergency Response (OSWER) *Technical Guide for Assessing and Mitigating the Vapor Intrusion Pathway from Subsurface Vapor Sources to Indoor Air,* June 2015.
- Generally accepted best management practices.

The Work Plan describes the following activities:

- implementation of sampling activities, including the following:
    - sub-slab soil gas sampling (indoors); and
    - sub-slab multi-depth soil gas sampling (indoors).

The general locations and number of planned samples are shown on Figure 1. Locations may be adjusted upon completion of site surveys conducted prior to sample collection (i.e., utility locate surveys). Details regarding sampling methodology and analysis are included in the following sections.

2.0 SAMPLE COLLECTION PROCEDURES

The following sections describe the procedures for sub-slab soil gas and sub-slab multi-depth soil gas sample collection. In addition, field documentation, analytical needs, and sample identification methods are outlined. Sample collection scheduling will take into consideration weather conditions at the time of sampling. Sampling will not occur during or immediately following (i.e., within 24 hours) a high wind/rain/storm event. Sampling events may need to be postponed or rescheduled to accommodate these weather conditions. Efforts will be made to complete the sampling before major renovations to the building commence (i.e., within the next four to six weeks).

2.1 SUB-SLAB SOIL GAS

Sub-slab soil gas samples will be collected from beneath the foundation slab as the building is a slab on grade structure. Samples will be collected from the approximate locations shown on Figure 1. Sub-slab sample locations have been selected so as to be in general proximity to former source areas. Sample locations will generally be located away from building edges. Locations may be modified based on access/building plans, equipment locations and utilities. Locations may need to be modified to avoid sub-surface utilities, cracks in the floor slab or other features that may limit the reliability of the sampling results.

2.1.1 Sub-Surface Clearance

Sub-surface clearance activities will be conducted prior to installation of sampling points. Geophysical surveys (ground penetrating radar (GPR), radio frequency line location or similar) will be conducted at the Site in an effort to locate potential subsurface utilities. As-built drawings of the building will be reviewed, if available, and utilities will be marked prior to sampling point installation. Georgia 811 will also be contacted in accordance with local regulations.

2.1.2 *Sub-Slab Soil Gas Point Installation*

Prior to sub-slab sampling, a PID will be used as a general check for the presence of potential sources of VOC vapors in the vicinity of the sampling location (e.g., paints, adhesives, etc.). If VOC-containing products are observed at the time of sampling, they will be documented with a photograph and on the air sample data sheet (Appendix A).

Sub-slab sampling points will be installed as follows:

- a 5/8-inch diameter hole will be drilled through the thickness of the slab and approximately 1-inch into the sub-slab material to form a void;
- the hole will be cleaned of concrete cuttings and dust using a pipe brush;
- a Vapor Pin™ with a silicone sleeve will be placed over the hole and tapped into place using a dead blow hammer (the silicone sleeve will form a water and air tight seal with the concrete);
- a syringe will be used to conduct a purge check of the sample point (soil gas should be relatively easy to extract without generation of a significant vacuum); and
- sub-slab sampling points will be left in place for ~2 hours to allow for re-equilibration with the surrounding soil prior to quality assurance checks and soil gas sampling.

2.1.3 *Leak Check and Shut-in Test*

After installation of the sampling point, a water dam will be placed around the point and filled with water. The water will be monitored for 5 minutes to check for leaks in the seal between the concrete and the Vapor Pin™. If leaks are observed based on water draining into the sampling point, the sampling point will be extracted and reset. The water dam will be used until the seal is determined to be adequate.

Nylon (or Teflon) tubing will be attached from the sampling point to a 2.7-liter Summa® canister. A shut-in test will be completed to determine the security of the sampling train between the sampling point and the sampling canister. The shut-in test is performed by generating a vacuum inside the sample tubing while keeping the sampling point and the sampling canister closed. A vacuum of approximately 100 inches of water

is generated using a plastic syringe and the vacuum is monitored for 1 minute. If vacuum is maintained for the observed period, then the sampling train is deemed adequate and sampling can begin.

2.1.4 Sub-Slab Soil Gas Sample Collection

After completion of quality control activities, the sampling point will be opened and access to the plastic syringe will be closed. The Summa® canister will be equipped with a flow controller limiting flow to approximately 200 milliliters/minute (i.e., approximately a 13.5 minute sampling time into a 2.7-liter sampling canister). The canister will be opened and the vacuum in the canister will be monitored during sampling collection. Sampling will be complete when vacuum measurements indicate approximately no vacuum in the canister (approximately 13.5 minutes). Residual vacuum is not required in the 2.7-liter sampling canisters because the full sampling period (i.e., 13.5 minutes) will be actively monitored by field personnel (i.e., a witnessed sample). If residual vacuum remains in the 2.7-liter sampling canisters, it cannot exceed 15 inches of mercury (in Hg) or laboratory reporting limits will be affected. Residual vacuum, if any, will be confirmed and recorded by the laboratory after receipt of the canisters.

The Summa® canisters and flow regulators will be batched-certified clean by the laboratory prior to use. Sampling information will be recorded on the appropriate air sampling data sheet including starting and ending vacuum reading of each canister. A copy of a template air sampling data sheet is included in Appendix A.

2.2 SUB-SLAB MULTI-DEPTH SOIL GAS PROBE INSTALLATION

Two multi-depth soil gas probes will be installed immediately inside the building walls at the northeastern portion of the building (Figure 1). These locations are in proximity to the area where a significant volume of contaminated soil was removed in 2014 and 2015. Each multi-depth probe will collect soil gas at approximately 13 feet, 8 feet and 3 feet below ground surface. Depths of the soil gas probe may be adjusted depending on depth to groundwater and subsurface conditions at the time of the sampling. The three sampling depths of the multi-depth probe will be installed either as a nested soil gas point (SGP) in one borehole or each

SGP depth will be installed inside separate and boreholes. Boreholes will be completed using a Geoprobe punch point or hand auger.
SGPs will consist of ¼-inch Nylaflow® or Teflon® tubing connected via a barb fitting to a 6-inch-long, ¼-inch-diameter stainless steel sampling screen. A sand filter pack will be placed in the annulus to a height of 6 inches above the screen. Three inches of granular or chip bentonite will be placed above the sand filter pack on top of which 3 inches of a thick slurry of powered bentonite and water will be placed. After approximately 15 minutes, thick slurry of powdered bentonite and water will be added to seal the remainder of the borehole annulus to the ground surface. The SGPs will be fitted at the ground surface with valves to maintain an air-tight seal between installation and sampling. The SGPs will be left in place for 24 hours to allow for subsurface equilibration prior to sampling. After installation of the SGPs, a plastic syringe will be used to conduct a purge check of each sample point. The syringe plunger should be relatively easy to pull back indicating that soil gas can be extracted without generation of a significant vacuum. If the plunger is not easy to pull back or it retracts after it is released, the soil may be too "tight" and there is likely too little permeability to collect an uncompromised sample. If this is the case, additional evaluation of the use of SGPs may be necessary.

Prior to sampling, the SPGs will be purged the equivalent volume of the tubing and sand pack with a 5-gas meter or GEM 3000 to remove any atmospheric air entrained during installation. During purging the readings on the meter will be monitored until stabilized.

2.2.1 Leak Check and Shut-in Test

Helium will be used as a tracer gas during the leak checks to evaluate if significant amounts of atmospheric air are entering the soil gas sample. During the purging and field screening processes, a shroud will be placed over each SGP and helium will be injected into the shroud. The concentration of helium in the shroud will be maintained at a minimum of 10% helium. A portable helium detector (MDG-2202 or similar) will be connected to the SGP port to monitor helium concentrations in the subsurface. If helium concentrations in the purged volumes are less than 5% of the minimum concentration in the shroud, the SGP will be considered satisfactory and indicative of no significant leakage in the sample train.

A shut-in test will also be completed on the above ground portion of the sample train. The shut-in test will be conducted using the same procedures as the sub-slab soil gas shut-in test (Section 3.1.3).

2.2.2 Multi-Depth Soil Gas Probe Sampling

After completion of quality control activities, access to the plastic syringe will be closed. Sampling will then be conducted using Summa® canisters as described in Section 3.1.4. The canisters and flow regulators will be batched-certified clean by the laboratory prior to use. Sampling information will be recorded on the appropriate air sampling data sheet including starting and ending vacuum reading of each canister. A copy of a template air sampling data sheet is included in Appendix A.

Upon completion of sample collection, SGPs will remain in place until the investigation has been completed unless the property owner requests that they be removed.

2.3 ANALYTICAL

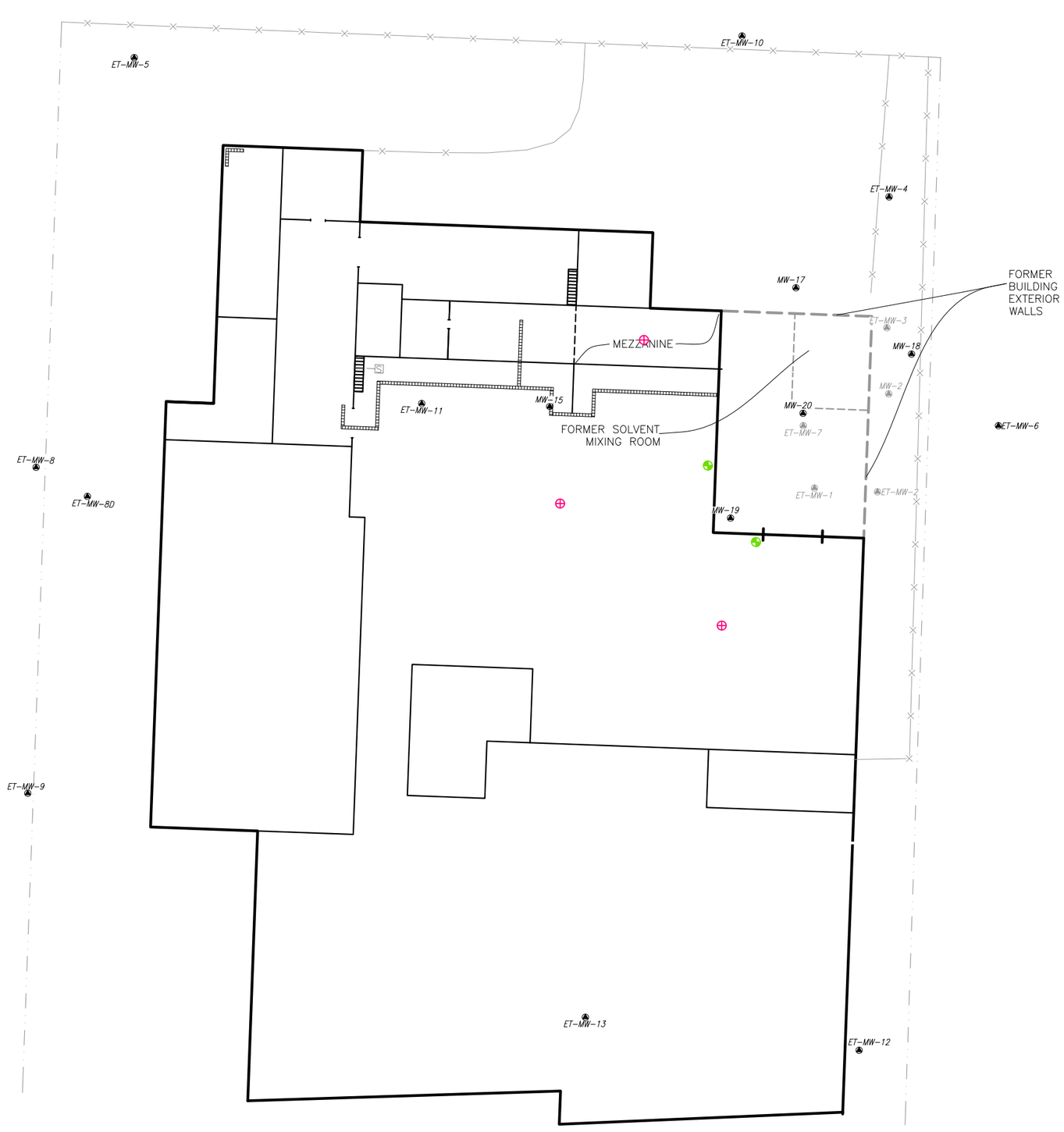
Sub-slab and multi-depth soil gas samples will be analyzed by USEPA Method TO-15 Selective Ion Monitoring (SIM). The TO-15 SIM analysis is used to achieve lower laboratory reporting limits necessary for residential vapor intrusion screening levels (VISLs). Samples will be submitted to Alpha Analytical Laboratory of Mansfield, Massachusetts which is Georgia approved via the National Environmental Laboratory Accreditation Program (NELAP).

Analytical results for sub-slab soil gas and sub-slab multi-depth soil gas samples will be reported for the five analytes (naphthalene, ethylbenzene, xylenes, chlorobenzene, and 1,4-dichlorobenzene) that have had a concentration in the last five years that have exceeded residential groundwater screening levels using the USEPA Vapor Intrusion Screening Level (VISL) calculator (see Appendix B). The analytical results will be compared to target screening levels calculated for residential and commercial sub-slab soil gas and exterior soil gas, using the USEPA VISL calculator as an initial assessment of the data.

Figure 1

May 2016
Project No. 0121021

Environmental Resources Management
3200 Windy Hill Rd. Suite 1500W
Atlanta, GA 30339
(678) 486-2700



LEGEND

- ET-MW-8 — MONITOR WELL LOCATION
- ET-MW-1 — ABANDONED MONITOR WELL LOCATION
- FLOOR DRAIN
- SUMP
- STAIRS
- FENCE LINE
- PROPERTY LINE
- PROPOSED MULTI-DEPTH SAMPLE LOCATION
- PROPOSED SUB-SLAB SAMPLE LOCATION

N

0 40 80
SCALE FEET

Environmental Resources Management

PROPOSED VI SAMPLING LOCATION MAP
VOLUNTARY REMEDIATION PLAN
I. SCHNEID FACILITY
ATLANTA, FULTON COUNTY, GEORGIA

DESIGN: SV	DRAWN: SV	CHKD.: NV
DATE: 5/16/2016	SCALE: AS SHOWN	REV.: 0

W.O.NO.: S:\0121021 - I Schneid\Files\FIGURES\121021 ISL\2016\05 2016\121021Site.dwg

Air Sampling Data Sheet

Appendix A

May 2016
Project No. 0121021

Environmental Resources Management
3200 Windy Hill Rd. Suite 1500W
Atlanta, GA 30339
(678) 486-2700

Environmental Resources Management
The Towers at Wildwood Plaza
3200 Windy Hill Road, SE
Atlanta, Geogia 30339
Phone: (678) 486-2700

Project #:
Project Name:
Location:
Project Manager:

Sample Location:		**Collector(s):**	
Address:			
PID Meter Used: (Model, Serial #)		**Date:**	

Sample ID:

Duplicate Sample? (Y/N) **Duplicate Sample ID:**

Type of sample (circle one): INDOOR AIR AMBIENT AIR SOIL GAS

Photograph description:

Summa® Information

Canister Serial Number:	Flow Controller Number:
Start Date/Time:	Stop Date/Time:
Start Pressure: (inches Hg) [1]	Stop Pressure: (inches Hg) [2]

Other Sampling Information:

Story/Level		Ground Surface (pavement, flooring)		Depth of Vapor Probe (if applicable)	
Room		Slab thickness (if applicable)		Distance from Building (if applicable)	
Indoor Air Temp (ºF)		Potential Vapor Pathways Observed?		Distance to nearest Roadway (ft.)	
Intake Height Above Ground Level (ft.)		Noticeable Odor?		Weather	
Barometric Pressure Initial ("Hg or mb)		Barometric Pressure Final ("Hg or mb)		Wind Speed (mph)	

Interim Monitoring

Initial Sample Purge (soil gas only):	PID Reading (ppm):		Noticeable Odor? (Y/N)	
Reading #1:	Time:	Summa Vacuum ("Hg):	Noticeable Odor? (Y/N)	
Reading #2:	Time:	Summa Vacuum ("Hg):	Noticeable Odor? (Y/N)	
Reading #3:	Time:	Summa Vacuum ("Hg):	Noticeable Odor? (Y/N)	
Reading #4:	Time:	Summa Vacuum ("Hg):	Noticeable Odor? (Y/N)	
Reading #5:	Time:	Summa Vacuum ("Hg):	Noticeable Odor? (Y/N)	

Sketch of Sample Location:

Comments:

1 - Verify pressure did not decrease noticeably from laboratory reported value.

2 - If final pressure does not change much from initial pressure, send the sample to the laboratory and indicate "HOLD" on the chain-of-custody. Also request that the laboratory determine the final pressure and contact the ERM coordinator for further instruction.

Groundwater VISL Calculator Screening Results

Appendix B

May 2016
Project No. 0121021

Environmental Resources Management
3200 Windy Hill Rd. Suite 1500W
Atlanta, GA 30339
(678) 486-2700

OSWER VAPOR INTRUSION ASSESSMENT
Groundwater Concentration to Indoor Air Concentration (GWC-IAC) Calculator Version 3.45, November 2015 RSLs

Parameter	Symbol	Value	Instructions
Exposure Scenario	Scenario	Commercial	Select residential or commercial scenario from pull down list
Target Risk for Carcinogens	TCR	1.00E-05	Enter target risk for carcinogens (for comparison to the calculated VI carcinogenic risk in column F)
Target Hazard Quotient for Non-Carcinogens	THQ	1	Enter target hazard quotient for non-carcinogens (for comparison to the calculated VI hazard in column G)
Average Groundwater Temperature (°C)	Tgw	20	Enter average of the stabilized groundwater temperature to correct Henry's Law Constant for groundwater target concentrations

	CAS	Chemical Name	Site Groundwater Concentration Cgw (ug/L)	Calculated Indoor Air Concentration Cia (ug/m^3)	VI Carcinogenic Risk CR	VI Hazard HQ	Inhalation Unit Risk IUR (ug/m^3)$^{-1}$	IUR Source*	Reference Concentration RfC (mg/m^3)	RFC Source*	Mutagenic Indicator i
x	67-64-1	Acetone	1.5E+02	1.73E-01	No IUR	1.3E-06			3.10E+01	A	
x	71-43-2	Benzene	5.6E+00	1.01E+00	6.4E-07	7.7E-03	7.80E-06	I	3.00E-02	I	
x	108-90-7	Chlorobenzene	1.3E+03	1.25E+02	No IUR	5.7E-01			5.00E-02	P	
x	98-82-8	Cumene	2.5E+01	8.20E+00	No IUR	4.7E-03			4.00E-01	I	
x	95-50-1	Dichlorobenzene, 1,2-	5.8E+02	3.26E+01	No IUR	3.7E-02			2.00E-01	H	
x	106-46-7	Dichlorobenzene, 1,4-	7.1E+01	5.08E+00	4.6E-06	1.4E-03	1.10E-05	CA	8.00E-01	I	
x	75-34-3	Dichloroethane, 1,1-	6.7E+01	1.25E+01	1.6E-06	No RfC	1.60E-06	CA			
x	75-35-4	Dichloroethylene, 1,1-	1.4E+01	1.24E+01	No IUR	1.4E-02			2.00E-01	I	
x	100-41-4	Ethylbenzene	2.0E+02	4.82E+01	9.8E-06	1.1E-02	2.50E-06	CA	1.00E+00	I	
x	75-09-2	Methylene Chloride	6.0E+00	6.53E-01	5.3E-10	2.5E-04	1.00E-08	I	6.00E-01	I	Mut
x	91-20-3	Naphthalene	9.0E+02	1.12E+01	**3.1E-05**	8.5E-01	3.40E-05	CA	3.00E-03	I	
x	108-88-3	Toluene	9.4E+01	1.97E+01	No IUR	9.0E-04			5.00E+00	I	
x	71-55-6	Trichloroethane, 1,1,1-	4.7E+01	2.64E+01	No IUR	1.2E-03			5.00E+00	I	
x	1330-20-7	Xylenes	1.3E+03	2.63E+02	No IUR	6.0E-01			1.00E-01	I	

Notes:

(1) **Inhalation Pathway Exposure Parameters (RME):**

Exposure Scenario	Units	Residential Symbol	Residential Value	Commercial Symbol	Commercial Value	Selected (based on scenario) Symbol	Selected (based on scenario) Value
Averaging time for carcinogens	(yrs)	ATc_R_GW	70	ATc_C_GW	70	ATc_GW	70
Averaging time for non-carcinogens	(yrs)	ATnc_R_GW	26	ATnc_C_GW	25	Atnc_GW	25
Exposure duration	(yrs)	ED_R_GW	26	ED_C_GW	25	ED_GW	25
Exposure frequency	(days/yr)	EF_R_GW	350	EF_C_GW	250	EF_GW	250
Exposure time	(hr/day)	ET_R_GW	24	ET_C_GW	8	ET_GW	8

(2) **Generic Attenuation Factors:**

Source Medium of Vapors	Residential Symbol	Residential Value	Commercial Symbol	Commercial Value	Selected (based on scenario) Symbol	Selected (based on scenario) Value
Groundwater (-)	AFgw_R_GW	0.001	AFgw_C_GW	0.001	AFgw_GW	0.001
Sub-Slab and Exterior Soil Gas (-)	AFss_R_GW	0.03	AFss_C_GW	0.03	AFss_GW	0.03

(3) **Formulas**

Cia, target = MIN(Cia,c; Cia,nc)
Cia,c (ug/m3) = TCR x ATc x (365 days/yr) x (24 hrs/day) / (ED x EF x ET x IUR)
Cia,nc (ug/m3) = THQ x ATnc x (365 days/yr) x (24 hrs/day) x RfC x (1000 ug/mg) / (ED x EF x ET)

(4) **Special Case Chemicals**

Trichloroethylene

	Residential Symbol	Residential Value	Commercial Symbol	Commercial Value	Selected (based on scenario) Symbol	Selected (based on scenario) Value
	mIURTCE_R_GW	1.00E-06	mIURTCE_C_GW	0.00E+00	mIURTCE_GW	0.00E+00
	IURTCE_R_GW	3.10E-06	IURTCE_C_GW	4.10E-06	IURTCE_GW	4.10E-06

Mutagenic Chemicals — The exposure durations and age-dependent adjustment factors for mutagenic-mode-of-action are listed in the table below:

Note: This section applies to trichloroethylene and other mutagenic chemicals, but not to vinyl chloride.

Age Cohort	Exposure Duration	Age-dependent adjustment factor
0 - 2 years	2	10
2 - 6 years	4	3
6 - 16 years	10	3
16 - 26 years	10	1

Mutagenic-mode-of-action (MMOA) adjustment factor 25 This factor is used in the equations for mutagenic chemicals.

Vinyl Chloride — See the Navigation Guide equation for Cia,c for vinyl chloride.

Notation:
I = IRIS: EPA Integrated Risk Information System (IRIS). Available online at: http://www.epa.gov/iris/subst/index.html
P = PPRTV. EPA Provisional Peer Reviewed Toxicity Values (PPRTVs). Available online at: http://hhpprtv.ornl.gov/pprtv.shtml

OSWER VAPOR INTRUSION ASSESSMENT
Groundwater Concentration to Indoor Air Concentration (GWC-IAC) Calculator Version 3.45, November 2015 RSLs

Parameter	Symbol	Value	Instructions
Exposure Scenario	Scenario	Residential	Select residential or commercial scenario from pull down list
Target Risk for Carcinogens	TCR	1.00E-05	Enter target risk for carcinogens (for comparison to the calculated VI carcinogenic risk in column F)
Target Hazard Quotient for Non-Carcinogens	THQ	1	Enter target hazard quotient for non-carcinogens (for comparison to the calculated VI hazard in column G)
Average Groundwater Temperature (°C)	Tgw	20	Enter average of the stabilized groundwater temperature to correct Henry's Law Constant for groundwater target concentrations

	CAS	Chemical Name	Site Groundwater Concentration Cgw (ug/L)	Calculated Indoor Air Concentration Cia (ug/m^3)	VI Carcinogenic Risk CR	VI Hazard HQ	Inhalation Unit Risk IUR (ug/m^3)$^{-1}$	IUR Source*	Reference Concentration RfC (mg/m^3)	RFC Source*	Mutagenic Indicator i
x	67-64-1	Acetone	1.5E+02	1.73E-01	No IUR	5.4E-06			3.10E+01	A	
x	71-43-2	Benzene	5.6E+00	1.01E+00	2.8E-06	3.2E-02	7.80E-06	I	3.00E-02	I	
x	108-90-7	Chlorobenzene	1.3E+03	1.25E+02	No IUR	**2.4E+00**			5.00E-02	P	
x	98-82-8	Cumene	2.5E+01	8.20E+00	No IUR	2.0E-02			4.00E-01	I	
x	95-50-1	Dichlorobenzene, 1,2-	5.8E+02	3.26E+01	No IUR	1.6E-01			2.00E-01	H	
x	106-46-7	Dichlorobenzene, 1,4-	7.1E+01	5.08E+00	**2.0E-05**	6.1E-03	1.10E-05	CA	8.00E-01	I	
x	75-34-3	Dichloroethane, 1,1-	6.7E+01	1.25E+01	7.1E-06	No RfC	1.60E-06	CA			
x	75-35-4	Dichloroethylene, 1,1-	1.4E+01	1.24E+01	No IUR	6.0E-02			2.00E-01	I	
x	100-41-4	Ethylbenzene	2.0E+02	4.82E+01	**4.3E-05**	4.6E-02	2.50E-06	CA	1.00E+00	I	
x	75-09-2	Methylene Chloride	6.0E+00	6.53E-01	6.4E-09	1.0E-03	1.00E-08	I	6.00E-01	I	Mut
x	91-20-3	Naphthalene	9.0E+02	1.12E+01	**1.4E-04**	**3.6E+00**	3.40E-05	CA	3.00E-03	I	
x	108-88-3	Toluene	9.4E+01	1.97E+01	No IUR	3.8E-03			5.00E+00	I	
x	71-55-6	Trichloroethane, 1,1,1-	4.7E+01	2.64E+01	No IUR	5.1E-03			5.00E+00	I	
x	1330-20-7	Xylenes	1.3E+03	2.63E+02	No IUR	**2.5E+00**			1.00E-01	I	

Notes:

(1) **Inhalation Pathway Exposure Parameters (RME):**

Exposure Scenario	Units	Residential Symbol	Residential Value	Commercial Symbol	Commercial Value	Selected (based on scenario) Symbol	Selected (based on scenario) Value
Averaging time for carcinogens	(yrs)	ATc_R_GW	70	ATc_C_GW	70	ATc_GW	70
Averaging time for non-carcinogens	(yrs)	ATnc_R_GW	26	ATnc_C_GW	25	Atnc_GW	26
Exposure duration	(yrs)	ED_R_GW	26	ED_C_GW	25	ED_GW	26
Exposure frequency	(days/yr)	EF_R_GW	350	EF_C_GW	250	EF_GW	350
Exposure time	(hr/day)	ET_R_GW	24	ET_C_GW	8	ET_GW	24

(2) **Generic Attenuation Factors:**

Source Medium of Vapors	Residential Symbol	Residential Value	Commercial Symbol	Commercial Value	Selected (based on scenario) Symbol	Selected (based on scenario) Value
Groundwater (-)	AFgw_R_GW	0.001	AFgw_C_GW	0.001	AFgw_GW	0.001
Sub-Slab and Exterior Soil Gas (-)	AFss_R_GW	0.03	AFss_C_GW	0.03	AFss_GW	0.03

(3) **Formulas**

Cia, target = MIN(Cia,c; Cia,nc)
Cia,c (ug/m3) = TCR x ATc x (365 days/yr) x (24 hrs/day) / (ED x EF x ET x IUR)
Cia,nc (ug/m3) = THQ x ATnc x (365 days/yr) x (24 hrs/day) x RfC x (1000 ug/mg) / (ED x EF x ET)

(4) **Special Case Chemicals**

Trichloroethylene	Residential Symbol	Residential Value	Commercial Symbol	Commercial Value	Selected (based on scenario) Symbol	Selected (based on scenario) Value
	mIURTCE_R_GW	1.00E-06	mIURTCE_C_GW	0.00E+00	mIURTCE_GW	1.00E-06
	IURTCE_R_GW	3.10E-06	IURTCE_C_GW	4.10E-06	IURTCE_GW	3.10E-06

Mutagenic Chemicals — The exposure durations and age-dependent adjustment factors for mutagenic-mode-of-action are listed in the table below:

Note: This section applies to trichloroethylene and other mutagenic chemicals, but not to vinyl chloride.

Age Cohort	Exposure Duration	Age-dependent adjustment factor
0 - 2 years	2	10
2 - 6 years	4	3
6 - 16 years	10	3
16 - 26 years	10	1

Mutagenic-mode-of-action (MMOA) adjustment factor 72 This factor is used in the equations for mutagenic chemicals.

Vinyl Chloride — See the Navigation Guide equation for Cia,c for vinyl chloride.

Notation:
I = IRIS: EPA Integrated Risk Information System (IRIS). Available online at: http://www.epa.gov/iris/subst/index.html
P = PPRTV. EPA Provisional Peer Reviewed Toxicity Values (PPRTVs). Available online at: http://hhpprtv.ornl.gov/pprtv.shtml

Sampling Location Photo-Log

Appendix B

August 2016
Project No. 0121021
I. Schneid Liquidation
Atlanta, GA

Environmental Resources Management
3200 Windy Hill Rd. Suite 1500W
Atlanta, GA 30339
(678) 486-2700

Photograph: *1*	***SG-1 sampling location at former I-Schneid Facility***

I-Schneid Liquidation *Atlanta, GA*	ERM	*Vapor Intrusion Assessment*

Photograph: *2*	***SG-2 sampling location at former I-Schneid Facility***

I-Schneid Liquidation *Atlanta, GA*	ERM	*Vapor Intrusion Assessment*

Photograph: *3*	***Dam test performed to test for leaks in seal to sub-slab***	
I-Schneid Liquidation *Atlanta, GA*	ERM	*Vapor Intrusion Assessment*

Photograph: *4*	***SSV-1 and DUP-1 sampling location at former I-Schneid Facility***	
I-Schneid Liquidation *Atlanta, GA*	ERM	*Vapor Intrusion Assessment*

Photograph: *5*	***SSV-02 sampling location at former I-Schneid Facility***

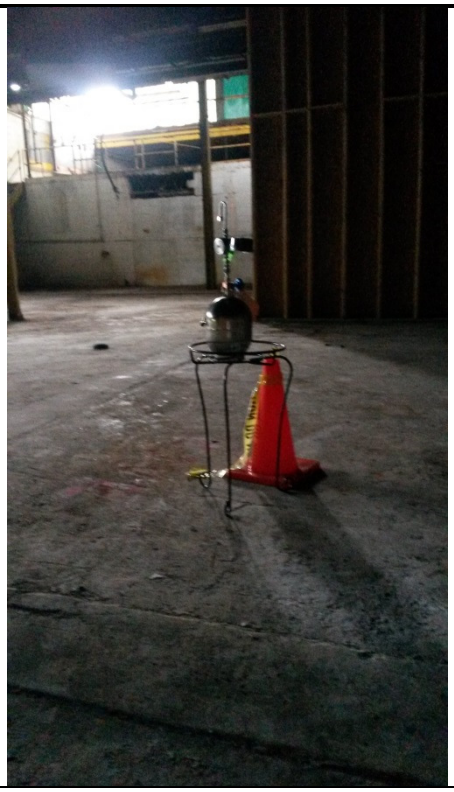
I-Schneid Liquidation *Atlanta, GA*	ERM	*Vapor Intrusion Assessment*

Photograph: *5*	***SSV-03 dam test sampling location at former I-Schneid Facility***

I-Schneid Liquidation *Atlanta, GA*	ERM	*Vapor Intrusion Assessment*

Photograph: *9*	***IA-01 and DUP-01 sampling location at former I-Schneid Facility***

I-Schneid Liquidation *Atlanta, GA*	ERM	*Vapor Intrusion Assessment*

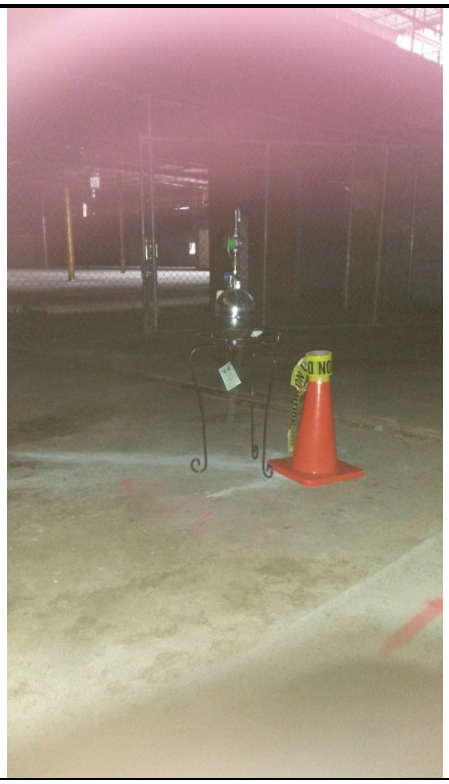


Photograph: *10*	***IA-02-20160705-01 sampling location at former I-Schneid Facility***

I-Schneid Liquidation *Atlanta, GA*	ERM	*Vapor Intrusion Assessment*

Photograph: *11*	***IA-03 sampling location at former I-Schneid Facility***	
I-Schneider, USA *Atlanta*	ERM	*Vapor Intrusion Assessment*

Photograph: *12*	***IA-04 sampling location at former I-Schneid Facility***	
I-Schneider, USA *Atlanta*	ERM	*Vapor Intrusion Assessment*



Photograph: *13*	***IA-05-sampling location at former I-Schneid Facility***	
I-Schneider, USA *Atlanta*	ERM	*Vapor Intrusion Assessment*

Photograph: *14*	***OA-01 sampling location upwind SW of former I-Schneid facility***	
I-Schneid Liquidation *Atlanta, GA*	ERM	*Vapor Intrusion Assessment*

Air Sampling Data Sheets

Appendix C

August 2016
Project No. 0121021
I. Schneid Liquidation
Atlanta, GA

Environmental Resources Management
3200 Windy Hill Rd. Suite 1500W
Atlanta, GA 30339
(678) 486-2700

Environmental Resources Management
The Towers at Wildwood Plaza
3200 Windy Hill Road, SE
Atlanta, Geogia 30339
Phone: (678) 486-2700

Project #:	0121021
Project Name:	ISL
Location:	1420 Fairmont Avenue
	Atlanta, Fulton County, GA
Project Manager:	J. Bilkert

Sample Location:	SG-1-3'	Collector(s):	C. Brooks
Address:	Former I-Schneid 1420 Fairmont Ave, Atlanta, GA		A. Reimer
PID Meter Used: (Model, Serial #)		Date:	6/8/2016

Sample ID: SG-1-3'
Duplicate Sample? (Y/N) N **Duplicate Sample ID:**
Type of sample (circle one): INDOOR AIR AMBIENT AIR (SOIL GAS)

Photograph description:

Summa® Information

Canister Serial Number: 141 Batch cleaning L1615757-02	Flow Controller Number: 0650
Start Date/Time: 6/8/16 / 0905	Stop Date/Time: 6/8/16 ~~09:10~~ 09:20
Start Pressure: (inches Hg) [1] -28.98	Stop Pressure: (inches Hg) [2] -0.66

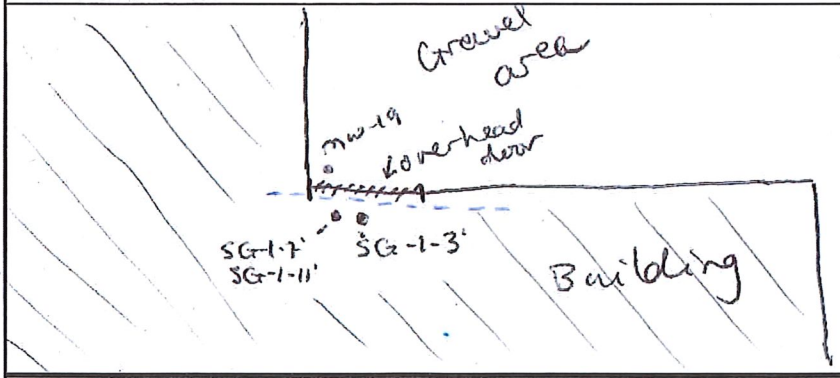
Other Sampling Information:

Story/Level	Ground	Ground Surface (pavement, flooring)	Concrete	Depth of Vapor Probe (if applicable)	3' bgs
Room		Slab thickness (if applicable)	~ 2.5"	Distance from Building (if applicable)	
Indoor Air Temp (°F)	~60°	Potential Vapor Pathways Observed?	& cracks in concrete	Distance to nearest Roadway (ft.)	
Intake Height Above Ground Level (ft.)	NA	Noticeable Odor?	No	Weather	Warm, clear, ~68° sunny
Barometric Pressure Initial ("Hg or mb)	29.07 "Hg	Barometric Pressure Final ("Hg or mb)	29.01 "Hg	Wind Speed (mph)	

Interim Monitoring

Initial Sample Purge (soil gas only):	PID Reading (ppm):	Noticeable Odor? (Y/N) No	
Reading #1:	Time: 0909	Summa Vacuum ("Hg): -22.07	Noticeable Odor? (Y/N)
Reading #2:	Time: 0913	Summa Vacuum ("Hg): -12.26	Noticeable Odor? (Y/N)
Reading #3:	Time: 0917	Summa Vacuum ("Hg): -4.10	Noticeable Odor? (Y/N)
Reading #4:	Time: 0919	Summa Vacuum ("Hg): -1.01	Noticeable Odor? (Y/N)
Reading #5:	Time:	Summa Vacuum ("Hg):	Noticeable Odor? (Y/N)

Sketch of Sample Location:



Comments:

1 - Verify pressure did not decrease noticeably from laboratory reported value.

2 - If final pressure does not change much from initial pressure, send the sample to the laboratory and indicate "HOLD" on the chain-of-custody. Also request that the laboratory determine the final pressure and contact the ERM coordinator for further instruction.

Environmental Resources Management
The Towers at Wildwood Plaza
3200 Windy Hill Road, SE
Atlanta, Geogia 30339
Phone: (678) 486-2700

Project #:	0121021
Project Name:	ISL
Location:	1420 Fairmont Avenue Atlanta, Fulton County, GA
Project Manager:	J. Bilkert

Sample Location:	SG-1-7'	Collector(s):	C. Brooks A. Reimer
Address:	Former I-Schneid 1420 Fairmont Ave, Atlanta, GA		
PID Meter Used: (Model, Serial #)		Date:	6/8/2016

Sample ID: SG-1-7'
Duplicate Sample? (Y/N) N **Duplicate Sample ID:**
Type of sample (circle one): INDOOR AIR AMBIENT AIR (SOIL GAS)

Photograph description:

Summa® Information

Canister Serial Number: 502	Flow Controller Number: 0511
Start Date/Time: 6/8/16 / 0930	Stop Date/Time: 6/8/16 / 0945
Start Pressure: (inches Hg) [1] -28.86	Stop Pressure: (inches Hg) [2] -0.33

Other Sampling Information:

Story/Level	Ground	Ground Surface (pavement, flooring)	Concrete	Depth of Vapor Probe (if applicable)	6.8' bgs
Room		Slab thickness (if applicable)	~ 2.5"	Distance from Building (if applicable)	
Indoor Air Temp (°F)	~65°	Potential Vapor Pathways Observed?	cracks in slab	Distance to nearest Roadway (ft.)	
Intake Height Above Ground Level (ft.)	NA	Noticeable Odor?	No	Weather	warm, clear ~70°
Barometric Pressure Initial ("Hg or mb)	29.0	Barometric Pressure Final ("Hg or mb)	29.0	Wind Speed (mph)	

Interim Monitoring

Initial Sample Purge (soil gas only):	PID Reading (ppm):	Noticeable Odor? (Y/N) NO	
Reading #1:	Time: 0931	Summa Vacuum ("Hg): -25.98	Noticeable Odor? (Y/N)
Reading #2:	Time: 0934	Summa Vacuum ("Hg): -18.69	Noticeable Odor? (Y/N)
Reading #3:	Time: 0936	Summa Vacuum ("Hg): -13.61	Noticeable Odor? (Y/N)
Reading #4:	Time: 0939	Summa Vacuum ("Hg): -6.61	Noticeable Odor? (Y/N)
Reading #5:	Time: 0944	Summa Vacuum ("Hg): -1.25	Noticeable Odor? (Y/N)

Sketch of Sample Location:

see SG-1-3' sketch

Comments:

1 - Verify pressure did not decrease noticeably from laboratory reported value.

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Environmental Resources Management
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3200 Windy Hill Road, SE
Atlanta, Geogia 30339
Phone: (678) 486-2700

Project #:	0121021
Project Name:	ISL
Location:	1420 Fairmont Avenue Atlanta, Fulton County, GA
Project Manager:	J. Bilkert

Sample Location:	SG-1-11'	Collector(s):	C. Brooks A. Reimer
Address:	Former I-Schneid 1420 Fairmont Ave, Atlanta, GA		
PID Meter Used: (Model, Serial #)		Date:	6/8/2016

Sample ID: SG-1-11'
Duplicate Sample? (Y/N) N **Duplicate Sample ID:**
Type of sample (circle one): INDOOR AIR AMBIENT AIR (SOIL GAS)

Photograph description:

Summa® Information

Canister Serial Number: 1804	Flow Controller Number: 0602
Start Date/Time: 6/8/16 09:39	Stop Date/Time: 6/8/16 0955
Start Pressure: (inches Hg) [1] -29.22	Stop Pressure: (inches Hg) [2] -0.89

Other Sampling Information:

Story/Level	Ground	Ground Surface (pavement, flooring)	Concrete	Depth of Vapor Probe (if applicable)	11' bgs
Room		Slab thickness (if applicable)	~ 2.5"	Distance from Building (if applicable)	
Indoor Air Temp (°F)	~65°	Potential Vapor Pathways Observed?	cracks in slab	Distance to nearest Roadway (ft.)	
Intake Height Above Ground Level (ft.)	NA	Noticeable Odor?	No	Weather	clear, sunny ~72°
Barometric Pressure Initial ("Hg or mb)	29.0	Barometric Pressure Final ("Hg or mb)	29.0	Wind Speed (mph)	

Interim Monitoring

Initial Sample Purge (soil gas only):	PID Reading (ppm):		Noticeable Odor? (Y/N)
Reading #1:	Time: 0941	Summa Vacuum ("Hg): -24.88	Noticeable Odor? (Y/N)
Reading #2:	Time: 0946	Summa Vacuum ("Hg): -14.38	Noticeable Odor? (Y/N)
Reading #3:	Time: 0950	Summa Vacuum ("Hg): -9.31	Noticeable Odor? (Y/N)
Reading #4:	Time: 0952	Summa Vacuum ("Hg): -4.93	Noticeable Odor? (Y/N)
Reading #5:	Time: 0954	Summa Vacuum ("Hg): -1.01	Noticeable Odor? (Y/N)

Sketch of Sample Location:

See SG-1-3' sketch

Comments:

1 - Verify pressure did not decrease noticeably from laboratory reported value.

2 - If final pressure does not change much from initial pressure, send the sample to the laboratory and indicate "HOLD" on the chain-of-custody. Also request that the laboratory determine the final pressure and contact the ERM coordinator for further instruction.

Environmental Resources Management
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Atlanta, Geogia 30339
Phone: (678) 486-2700

Project #:	0121021
Project Name:	ISL
Location:	1420 Fairmont Avenue Atlanta, Fulton County, GA
Project Manager:	J. Bilkert

Sample Location:	SG-2-3'	Collector(s):	C. Brooks A. Reimer
Address:	Former I-Schneid 1420 Fairmont Ave, Atlanta, GA		
PID Meter Used: (Model, Serial #)		Date:	6/8/2016

Sample ID: SG-2-3'
Duplicate Sample? (Y/N) N **Duplicate Sample ID:**
Type of sample (circle one): INDOOR AIR AMBIENT AIR (SOIL GAS)

Photograph description:

Summa® Information

Canister Serial Number: 446	Flow Controller Number: 0658
Start Date/Time: 6/8/16 1028	Stop Date/Time: 6/8/16 1045
Start Pressure: (inches Hg) [1] -29.33	Stop Pressure: (inches Hg) [2] -0.09

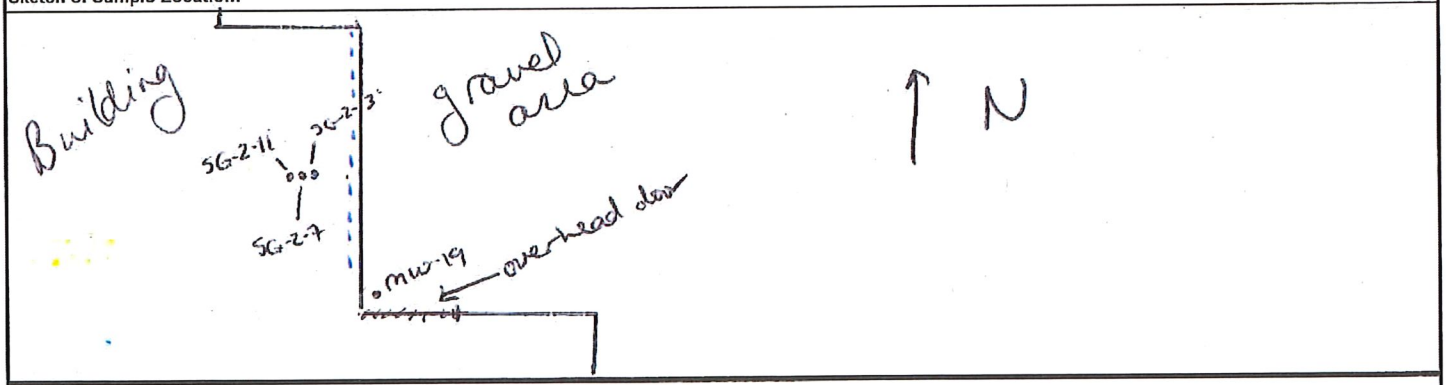
Other Sampling Information:

Story/Level	Ground	Ground Surface (pavement, flooring)	Concrete	Depth of Vapor Probe (if applicable)	3' bgs
Room		Slab thickness (if applicable)	~ 2.5"	Distance from Building (if applicable)	
Indoor Air Temp (°F)	~70'	Potential Vapor Pathways Observed?	cracks in slab	Distance to nearest Roadway (ft.)	
Intake Height Above Ground Level (ft.)	NA	Noticeable Odor?	No	Weather	warm, clear, ~80°
Barometric Pressure Initial ("Hg or mb)	28.28	Barometric Pressure Final ("Hg or mb)	28.28	Wind Speed (mph)	

Interim Monitoring

Initial Sample Purge (soil gas only):	PID Reading (ppm):	Noticeable Odor? (Y/N)	
Reading #1:	Time: 1030 Summa Vacuum ("Hg): -21.56	Noticeable Odor? (Y/N)	
Reading #2:	Time: 1039 Summa Vacuum ("Hg): -8.84	Noticeable Odor? (Y/N)	
Reading #3:	Time: 1041 Summa Vacuum ("Hg): -4.67	Noticeable Odor? (Y/N)	
Reading #4:	Time: 1043 Summa Vacuum ("Hg): -2.27	Noticeable Odor? (Y/N)	
Reading #5:	Time: 1044 Summa Vacuum ("Hg): -0.96	Noticeable Odor? (Y/N)	

Sketch of Sample Location:



Comments:

1 - Verify pressure did not decrease noticeably from laboratory reported value.

2 - If final pressure does not change much from initial pressure, send the sample to the laboratory and indicate "HOLD" on the chain-of-custody. Also request that the laboratory determine the final pressure and contact the ERM coordinator for further instruction.

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Atlanta, Geogia 30339
Phone: (678) 486-2700

Project #:	0121021
Project Name:	ISL
Location:	1420 Fairmont Avenue Atlanta, Fulton County, GA
Project Manager:	J. Bilkert

Sample Location:	SG-2-7'	Collector(s):	C. Brooks A. Reimer
Address:	Former I-Schneid 1420 Fairmont Ave, Atlanta, GA		
PID Meter Used: (Model, Serial #)		Date:	6/8/2016

Sample ID: SG-2-7'
Duplicate Sample? (Y/N) N **Duplicate Sample ID:**
Type of sample (circle one): INDOOR AIR AMBIENT AIR (SOIL GAS)

Photograph description:

Summa® Information

Canister Serial Number: 1518	Flow Controller Number: 0689
Start Date/Time: 6/8/16 1046	Stop Date/Time: 6/8/16 1101
Start Pressure: (inches Hg) [1] -28.88	Stop Pressure: (inches Hg) [2] -0.21

Other Sampling Information:

Story/Level	Ground	Ground Surface (pavement, flooring)	Concrete	Depth of Vapor Probe (if applicable)	7' bgs
Room		Slab thickness (if applicable)	~ 2.5"	Distance from Building (if applicable)	
Indoor Air Temp (°F)	~70°	Potential Vapor Pathways Observed?	cracks in slab	Distance to nearest Roadway (ft.)	
Intake Height Above Ground Level (ft.)	NA	Noticeable Odor?	No	Weather	warm, clear, ~800
Barometric Pressure Initial ("Hg or mb)	28.98	Barometric Pressure Final ("Hg or mb)	28.98	Wind Speed (mph)	

Interim Monitoring

Initial Sample Purge (soil gas only):	PID Reading (ppm):		Noticeable Odor? (Y/N)	
Reading #1:	Time: 1050	Summa Vacuum ("Hg): -17.73	Noticeable Odor? (Y/N)	
Reading #2:	Time: 1054	Summa Vacuum ("Hg): -7.61	Noticeable Odor? (Y/N)	
Reading #3:	Time: 1057	Summa Vacuum ("Hg): -3.11	Noticeable Odor? (Y/N)	
Reading #4:	Time: 1059	Summa Vacuum ("Hg): -1.69	Noticeable Odor? (Y/N)	
Reading #5:	Time: 1100	Summa Vacuum ("Hg): -0.75	Noticeable Odor? (Y/N)	

Sketch of Sample Location:

Comments:

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Environmental Resources Management
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Project #:	0121021
Project Name:	ISL
Location:	1420 Fairmont Avenue Atlanta, Fulton County, GA
Project Manager:	J. Bilkert

Sample Location:	SG-2-11'	Collector(s):	C. Brooks A. Reimer
Address:	Former I-Schneid 1420 Fairmont Ave, Atlanta, GA		
PID Meter Used: (Model, Serial #)		Date:	6/8/2016

Sample ID: SG-2-11'
Duplicate Sample? (Y/N) N **Duplicate Sample ID:**
Type of sample (circle one): INDOOR AIR AMBIENT AIR (SOIL GAS)

Photograph description:

Summa® Information

Canister Serial Number:	391	Flow Controller Number:	0686
Start Date/Time:	6/8/16 10:55	Stop Date/Time:	6/8/16 1109
Start Pressure: (inches Hg) [1]	-28.44	Stop Pressure: (inches Hg) [2]	ø

Other Sampling Information:

Story/Level	Ground	Ground Surface (pavement, flooring)	Concrete	Depth of Vapor Probe (if applicable)	11' bgs
Room		Slab thickness (if applicable)	~ 2.5"	Distance from Building (if applicable)	
Indoor Air Temp (°F)	~ 70°	Potential Vapor Pathways Observed?	cracks in slab	Distance to nearest Roadway (ft.)	
Intake Height Above Ground Level (ft.)	NA	Noticeable Odor?	No	Weather	warm clear ~80
Barometric Pressure Initial ("Hg or mb)	28.98	Barometric Pressure Final ("Hg or mb)	28.98	Wind Speed (mph)	

Interim Monitoring

Initial Sample Purge (soil gas only):	PID Reading (ppm):		Noticeable Odor? (Y/N)	
Reading #1:	Time: 1057	Summa Vacuum ("Hg): -21.09	Noticeable Odor? (Y/N)	
Reading #2:	Time: 1100	Summa Vacuum ("Hg): -13.43	Noticeable Odor? (Y/N)	
Reading #3:	Time: 1104	Summa Vacuum ("Hg): -5.83	Noticeable Odor? (Y/N)	
Reading #4:	Time: 1107	Summa Vacuum ("Hg): -1.66	Noticeable Odor? (Y/N)	
Reading #5:	Time: 1109	Summa Vacuum ("Hg): ø	Noticeable Odor? (Y/N)	

Sketch of Sample Location:

Comments:

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Atlanta, Geogia 30339
Phone: (678) 486-2700

Project #:	0121021
Project Name:	ISL
Location:	1420 Fairmont Avenue Atlanta, Fulton County, GA
Project Manager:	J. Bilkert

Sample Location:	SSV-1	Collector(s):	C. Brooks A. Reimer
Address:	Former I-Schneid 1420 Fairmont Ave, Atlanta, GA		
PID Meter Used: (Model, Serial #)		Date:	6/8/2016

Sample ID: SSV-1
Duplicate Sample? (Y/N) **Duplicate Sample ID:** Dup-01
Type of sample (circle one): INDOOR AIR AMBIENT AIR (SOIL GAS)

Photograph description:

Summa® Information

Canister Serial Number:	212 / Dup 527	Flow Controller Number:	0604 / Dup 0596
Start Date/Time:	6/8/16 1133 / 6/8/16 1147	Stop Date/Time:	6/8/16 1147 / 1203
Start Pressure: (inches Hg) [1]	-29.03 / -28.81	Stop Pressure: (inches Hg) [2]	-0.28 / -0.14

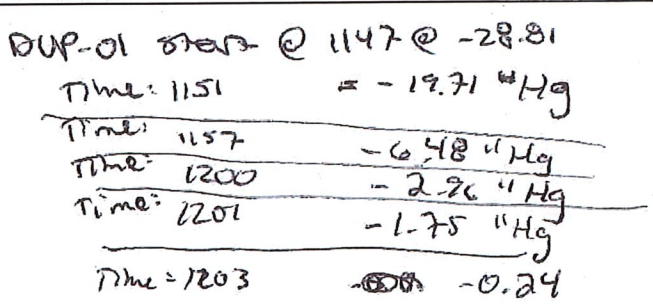
Other Sampling Information:

Story/Level	Ground	Ground Surface (pavement, flooring)	Concrete	Depth of Vapor Probe (if applicable)	sub-slab
Room		Slab thickness (if applicable)	~ 2.5"	Distance from Building (if applicable)	
Indoor Air Temp (°F)	~70°	Potential Vapor Pathways Observed?	cracks in slab	Distance to nearest Roadway (ft.)	
Intake Height Above Ground Level (ft.)	NA	Noticeable Odor?	No	Weather	warm, clear, ~80°
Barometric Pressure Initial ("Hg or mb)	28.98	Barometric Pressure Final ("Hg or mb)	28.98	Wind Speed (mph)	

Interim Monitoring

Initial Sample Purge (soil gas only):	PID Reading (ppm):	Noticeable Odor? (Y/N)	
Reading #1:	Time: 1137	Summa Vacuum ("Hg): -18.66	Noticeable Odor? (Y/N)
Reading #2:	Time: 1141	Summa Vacuum ("Hg): -7.84	Noticeable Odor? (Y/N)
Reading #3:	Time: 1145	Summa Vacuum ("Hg): -2.58	Noticeable Odor? (Y/N)
Reading #4:	Time: 1146	Summa Vacuum ("Hg): -0.86	Noticeable Odor? (Y/N)
Reading #5:	Time:	Summa Vacuum ("Hg):	Noticeable Odor? (Y/N)

Sketch of Sample Location:



Comments:

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Environmental Resources Management
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3200 Windy Hill Road, SE
Atlanta, Geogia 30339
Phone: (678) 486-2700

Project #:	0121021
Project Name:	ISL
Location:	1420 Fairmont Avenue
	Atlanta, Fulton County, GA
Project Manager:	J. Bilkert

Sample Location:	SSV-2	Collector(s):	C. Brooks
Address:	Former I-Schneid 1420 Fairmont Ave, Atlanta, GA		A. Reimer
PID Meter Used: (Model, Serial #)		Date:	6/8/2016

Sample ID: SSV-2

Duplicate Sample? (Y/N) N **Duplicate Sample ID:**

Type of sample (circle one): INDOOR AIR AMBIENT AIR (SOIL GAS)

Photograph description:

Summa® Information

Canister Serial Number: 546	Flow Controller Number: 0707
Start Date/Time: 6/8/16 1221	Stop Date/Time: 6/8/16 1236
Start Pressure: (inches Hg) [1] -28.65	Stop Pressure: (inches Hg) [2] -0.17

Other Sampling Information:

Story/Level	Ground	Ground Surface (pavement, flooring)	Concrete	Depth of Vapor Probe (if applicable)	sub-slab
Room		Slab thickness (if applicable)	~ 2.5"	Distance from Building (if applicable)	
Indoor Air Temp (°F)	~70°	Potential Vapor Pathways Observed?	cracks in slab	Distance to nearest Roadway (ft.)	
Intake Height Above Ground Level (ft.)	NA	Noticeable Odor?	No	Weather	warm, clear ~80°
Barometric Pressure Initial ("Hg or mb)	28.99	Barometric Pressure Final ("Hg or mb)	28.99	Wind Speed (mph)	

Interim Monitoring

Initial Sample Purge (soil gas only):	PID Reading (ppm):		Noticeable Odor? (Y/N)	
Reading #1:	Time: 1224	Summa Vacuum ("Hg): -19.78	Noticeable Odor? (Y/N)	
Reading #2:	Time: 1228	Summa Vacuum ("Hg): -12.16	Noticeable Odor? (Y/N)	
Reading #3:	Time: 1235	Summa Vacuum ("Hg): -0.43	Noticeable Odor? (Y/N)	
Reading #4:	Time:	Summa Vacuum ("Hg):	Noticeable Odor? (Y/N)	
Reading #5:	Time:	Summa Vacuum ("Hg):	Noticeable Odor? (Y/N)	

Sketch of Sample Location:

Comments:

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2 - If final pressure does not change much from initial pressure, send the sample to the laboratory and indicate "HOLD" on the chain-of-custody. Also request that the laboratory determine the final pressure and contact the ERM coordinator for further instruction.

Environmental Resources Management
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3200 Windy Hill Road, SE
Atlanta, Geogia 30339
Phone: (678) 486-2700

Project #:	0121021
Project Name:	ISL
Location:	1420 Fairmont Avenue
	Atlanta, Fulton County, GA
Project Manager:	J. Bilkert

Sample Location:	SSV-3	Collector(s):	C. Brooks
Address:	Former I-Schneid 1420 Fairmont Ave, Atlanta, GA		A. Reimer
PID Meter Used: (Model, Serial #)		Date:	6/8/2016

Sample ID: SSV-3

Duplicate Sample? (Y/N) N **Duplicate Sample ID:**

Type of sample (circle one): INDOOR AIR AMBIENT AIR (SOIL GAS)

Photograph description:

Summa® Information

Canister Serial Number: 352	Flow Controller Number: 0520
Start Date/Time: 6/8/16 1250	Stop Date/Time: 6/8/16 1305
Start Pressure: (inches Hg) [1] -29.34	Stop Pressure: (inches Hg) [2] -0.82

Other Sampling Information:

Story/Level	Ground	Ground Surface (pavement, flooring)	Concrete	Depth of Vapor Probe (if applicable)	sub-slab
Room		Slab thickness (if applicable)	~ 2.5"	Distance from Building (if applicable)	
Indoor Air Temp (°F)	~ 70°	Potential Vapor Pathways Observed?	cracks in slab	Distance to nearest Roadway (ft.)	
Intake Height Above Ground Level (ft.)	NA	Noticeable Odor?	No	Weather	warm, clear, 80
Barometric Pressure Initial ("Hg or mb)	28.97	Barometric Pressure Final ("Hg or mb)		Wind Speed (mph)	

Interim Monitoring

Initial Sample Purge (soil gas only):	PID Reading (ppm):	Noticeable Odor? (Y/N)	
Reading #1:	Time: ~~1251~~ 1253	Summa Vacuum ("Hg): -19.88	Noticeable Odor? (Y/N)
Reading #2:	Time: 1301	Summa Vacuum ("Hg): -4.52	Noticeable Odor? (Y/N)
Reading #3:	Time: 1304	Summa Vacuum ("Hg): -0.95	Noticeable Odor? (Y/N)
Reading #4:	Time:	Summa Vacuum ("Hg):	Noticeable Odor? (Y/N)
Reading #5:	Time:	Summa Vacuum ("Hg):	Noticeable Odor? (Y/N)

Sketch of Sample Location:

Comments:

1 - Verify pressure did not decrease noticeably from laboratory reported value.

2 - If final pressure does not change much from initial pressure, send the sample to the laboratory and indicate "HOLD" on the chain-of-custody. Also request that the laboratory determine the final pressure and contact the ERM coordinator for further instruction.

Environmental Resources Management
The Towers at Wildwood Plaza
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Atlanta, Geogia 30339
Phone: (678) 486-2700

Project #: 0121021
Project Name: I-Schneid
Location:
Project Manager: Jeff Bilkert

Sample Location:		Collector(s):	Kevin Spevicek
Address:			
PID Meter Used: (Model, Serial #)		Date:	7/5/16

Sample ID: IA-01-20160705-01
Duplicate Sample? (Y/N)
Duplicate Sample ID: DUP-01-20160705-01
Type of sample (circle one): INDOOR AIR AMBIENT AIR SOIL GAS

Photograph description:

Summa® Information

Canister Serial Number:	2197 / 2203	Flow Controller Number:	0155 / 0915
Start Date/Time:	7/5/16 1000	Stop Date/Time:	7/5/16
Start Pressure: (inches Hg) [1]	-29.53 / -28.95	Stop Pressure: (inches Hg) [2]	

Other Sampling Information:

Story/Level	1	Ground Surface (pavement, flooring)	concrete slab	Depth of Vapor Probe (if applicable)	/
Room		Slab thickness (if applicable)	~ 4.5"	Distance from Building (if applicable)	/
Indoor Air Temp (°F)	~ 85°	Potential Vapor Pathways Observed?		Distance to nearest Roadway (ft.)	
Intake Height Above Ground Level (ft.)	2'10"	Noticeable Odor?	No	Weather	partly cloudy 81-85°
Barometric Pressure Initial ("Hg or mb)		Barometric Pressure Final ("Hg or mb)		Wind Speed (mph)	10 mph SE

Interim Monitoring

Initial Sample Purge (soil gas only):	PID Reading (ppm):		Noticeable Odor? (Y/N)	
Reading #1:	Time: 1100	Summa Vacuum ("Hg): -26.63 / -26.54	Noticeable Odor? (Y/N)	
Reading #2:	Time: 1200	Summa Vacuum ("Hg): -23.75 / -24.1	Noticeable Odor? (Y/N)	
Reading #3:	Time: 1300	Summa Vacuum ("Hg): -20.78 / -21.5	Noticeable Odor? (Y/N)	
Reading #4:	Time: 1400	Summa Vacuum ("Hg): -17.44 / -19.13	Noticeable Odor? (Y/N)	
Reading #5:	Time: 1500	Summa Vacuum ("Hg): -15.22 / -16.82	Noticeable Odor? (Y/N)	

Sketch of Sample Location:

1600 -12.20 / -14.25
1700 -9.17 / -11.62
1800 -6.04 / -8.97
1830 -4.76 / -7.84 - Sample Complete valve closed

Comments:

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Environmental Resources Management
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3200 Windy Hill Road, SE
Atlanta, Geogia 30339
Phone: (678) 486-2700

Project #: 0121021
Project Name: I-Schneid
Location:
Project Manager: Jeff Bilkert

Sample Location:		Collector(s):	Kevin Spevack
Address:			
PID Meter Used: (Model, Serial #)		Date: 7/5/16	

Sample ID: IA-02-20160705-0
Duplicate Sample? (Y/(N)) Duplicate Sample ID: N/A
Type of sample (circle one): (INDOOR AIR) AMBIENT AIR SOIL GAS

Photograph description:

Summa® Information

Canister Serial Number: 196	Flow Controller Number: 0387
Start Date/Time: 7/5/16 1005	Stop Date/Time: 7/5/16
Start Pressure: (inches Hg) [1] -29.23	Stop Pressure: (inches Hg) [2]

Other Sampling Information:

Story/Level	1	Ground Surface (pavement, flooring)	Concrete	Depth of Vapor Probe (if applicable)	—
Room		Slab thickness (if applicable)	~4.5"	Distance from Building (if applicable)	—
Indoor Air Temp (°F)	~85°	Potential Vapor Pathways Observed?		Distance to nearest Roadway (ft.)	
Intake Height Above Ground Level (ft.)	2' 10"	Noticeable Odor?	No	Weather	Partly cloudy
Barometric Pressure Initial ("Hg or mb)		Barometric Pressure Final ("Hg or mb)		Wind Speed (mph)	10 mph ~~W~~ SE

Interim Monitoring

Initial Sample Purge (soil gas only):	PID Reading (ppm):		Noticeable Odor? (Y/N)
Reading #1:	Time: 1109	Summa Vacuum ("Hg): -25.35	Noticeable Odor? (Y/(N))
Reading #2:	Time: 1205	Summa Vacuum ("Hg): -21.30	Noticeable Odor? (Y/(N))
Reading #3:	Time: 1305	Summa Vacuum ("Hg): -17.11	Noticeable Odor? (Y/(N))
Reading #4:	Time: 1409	Summa Vacuum ("Hg): -13.20	Noticeable Odor? (Y/(N))
Reading #5:	Time: 1505	Summa Vacuum ("Hg): -9.42	Noticeable Odor? (Y/(N))

Sketch of Sample Location:

1605 -5.26
1640 -3.86 — Sample complete valve closed

Comments:

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Atlanta, Geogia 30339
Phone: (678) 486-2700

Project #: 0121021
Project Name: I-Schneid
Location:
Project Manager: Jeff Bilkert

Sample Location:		Collector(s):	Kevin Spevack
Address:			
PID Meter Used: (Model, Serial #)		Date:	7/6/16

Sample ID: IA-03-20160705-01
Duplicate Sample? (Y/(N))
Duplicate Sample ID: NA
Type of sample (circle one): (INDOOR AIR) AMBIENT AIR SOIL GAS

Photograph description:

Summa® Information

Canister Serial Number: 2015	Flow Controller Number: 0264
Start Date/Time: 7/6/2016 1010	Stop Date/Time: 7/5/2016
Start Pressure: (inches Hg) [1] -29.28	Stop Pressure: (inches Hg) [2]

Other Sampling Information:

Story/Level	1	Ground Surface (pavement, flooring)	Concrete	Depth of Vapor Probe (if applicable)	/
Room		Slab thickness (if applicable)	~4.5"	Distance from Building (if applicable)	/
Indoor Air Temp (°F)	~85	Potential Vapor Pathways Observed?		Distance to nearest Roadway (ft.)	
Intake Height Above Ground Level (ft.)		Noticeable Odor?	No	Weather	partly cloudy 81-85°
Barometric Pressure Initial ("Hg or mb)		Barometric Pressure Final ("Hg or mb)		Wind Speed (mph)	10 mi/L SE

Interim Monitoring

Initial Sample Purge (soil gas only):	PID Reading (ppm):	Noticeable Odor? (Y/N)	
Reading #1:	Time: 1110	Summa Vacuum ("Hg): -26.36	Noticeable Odor? (Y/(N))
Reading #2:	Time: 1210	Summa Vacuum ("Hg): -23.14	Noticeable Odor? (Y/(N))
Reading #3:	Time: 1310	Summa Vacuum ("Hg): -19.98	Noticeable Odor? (Y/(N))
Reading #4:	Time: 1410	Summa Vacuum ("Hg): -16.99	Noticeable Odor? (Y/(N))
Reading #5:	Time: 1510	Summa Vacuum ("Hg): -14.05	Noticeable Odor? (Y/(N))

Sketch of Sample Location:

1610 -10.60
1710 -7.17
1810 -4.18 - Sample Complete valve closed

Comments:

1 - Verify pressure did not decrease noticeably from laboratory reported value.

2 - If final pressure does not change much from initial pressure, send the sample to the laboratory and indicate "HOLD" on the chain-of-custody. Also request that the laboratory determine the final pressure and contact the ERM coordinator for further instruction.

Environmental Resources Management
The Towers at Wildwood Plaza
3200 Windy Hill Road, SE
Atlanta, Geogia 30339
Phone: (678) 486-2700

Project #: 0121021
Project Name: I-Schield
Location:
Project Manager: Jeff Bilkert

Sample Location:		Collector(s):	Kevin Spevack
Address:			
PID Meter Used: (Model, Serial #)		Date:	7/5/16

Sample ID: IA-04-20160705-01
Duplicate Sample? (Y/N)
Duplicate Sample ID: NA
Type of sample (circle one): INDOOR AIR AMBIENT AIR SOIL GAS

Photograph description:

Summa® Information

Canister Serial Number:	506	Flow Controller Number:	0952
Start Date/Time:	7/5/16 1015	Stop Date/Time:	7/5/16
Start Pressure: (inches Hg) [1]	-28.81	Stop Pressure: (inches Hg) [2]	

Other Sampling Information:

Story/Level	1	Ground Surface (pavement, flooring)	Concrete	Depth of Vapor Probe (if applicable)	✓
Room	Warehouse	Slab thickness (if applicable)	~4.5"	Distance from Building (if applicable)	✓
Indoor Air Temp (°F)	~85°	Potential Vapor Pathways Observed?		Distance to nearest Roadway (ft.)	
Intake Height Above Ground Level (ft.)	4'0"	Noticeable Odor?	No	Weather	partly cloudy 81-85°
Barometric Pressure Initial ("Hg or mb)	✓	Barometric Pressure Final ("Hg or mb)	✓	Wind Speed (mph)	10 mph SE

Interim Monitoring

Initial Sample Purge (soil gas only):	PID Reading (ppm):	Noticeable Odor? (Y/N)	
Reading #1:	Time: 1115	Summa Vacuum ("Hg): -26.15	Noticeable Odor? (Y/N)
Reading #2:	Time: 1215	Summa Vacuum ("Hg): -22.35	Noticeable Odor? (Y/N)
Reading #3:	Time: 1315	Summa Vacuum ("Hg): -19.85	Noticeable Odor? (Y/N)
Reading #4:	Time: 1415	Summa Vacuum ("Hg): -16.84	Noticeable Odor? (Y/N)
Reading #5:	Time: 1515	Summa Vacuum ("Hg): -13.99	Noticeable Odor? (Y/N)

Sketch of Sample Location:

1615 -10.61
1715 -7.56
1815 -4.64 - sample complete valve closed

Comments:

1- Verify pressure did not decrease noticeably from laboratory reported value.

2- If final pressure does not change much from initial pressure, send the sample to the laboratory and indicate "HOLD" on the chain-of-custody. Also request that the laboratory determine the final pressure and contact the ERM coordinator for further instruction.

Environmental Resources Management
The Towers at Wildwood Plaza
3200 Windy Hill Road, SE
Atlanta, Geogia 30339
Phone: (678) 486-2700

Project #: 0121021
Project Name: I-Schneid
Location:
Project Manager: Jeff Bilkert

Sample Location:		Collector(s):	Kevin Spevack
Address:			
PID Meter Used: (Model, Serial #)		Date:	7/5/16

Sample ID: IA-05-20160705-01
Duplicate Sample? (Y/(N))
Duplicate Sample ID:
Type of sample (circle one): (INDOOR AIR) AMBIENT AIR SOIL GAS

Photograph description:

Summa® Information

Canister Serial Number: 508	Flow Controller Number: 0236
Start Date/Time: 7/5/16 1020	Stop Date/Time: 7/5/16
Start Pressure: (inches Hg) [1] -24.73	Stop Pressure: (inches Hg) [2]

Other Sampling Information:

Story/Level	1	Ground Surface (pavement, flooring)	Concrete	Depth of Vapor Probe (if applicable)	/
Room		Slab thickness (if applicable)	~4.5"	Distance from Building (if applicable)	/
Indoor Air Temp (°F)	~85°	Potential Vapor Pathways Observed?		Distance to nearest Roadway (ft.)	
Intake Height Above Ground Level (ft.)	4'0"	Noticeable Odor?	No	Weather	partly cloudy 80-85°
Barometric Pressure Initial ("Hg or mb)	/	Barometric Pressure Final ("Hg or mb)	/	Wind Speed (mph)	10 mph SE

Interim Monitoring

Initial Sample Purge (soil gas only):	PID Reading (ppm): /		Noticeable Odor? (Y/(N)) N	
Reading #1:	Time: 1120	Summa Vacuum ("Hg): -27.33	Noticeable Odor? (Y/(N))	
Reading #2:	Time: 1220	Summa Vacuum ("Hg): -24.24	Noticeable Odor? (Y/(N))	
Reading #3:	Time: 1320	Summa Vacuum ("Hg): -21.48	Noticeable Odor? (Y/(N))	
Reading #4:	Time: 1420	Summa Vacuum ("Hg): -18.65	Noticeable Odor? (Y/(N))	
Reading #5:	Time: 1520	Summa Vacuum ("Hg): -13.92	Noticeable Odor? (Y/(N))	

Sketch of Sample Location:

1620 -12.61
1720 -9.57
1820 -6.21
1840 -5.36 Sample complete valve closed

Comments:

1 - Verify pressure did not decrease noticeably from laboratory reported value.

2 - If final pressure does not change much from initial pressure, send the sample to the laboratory and indicate "HOLD" on the chain-of-custody. Also request that the laboratory determine the final pressure and contact the ERM coordinator for further instruction.

Environmental Resources Management
The Towers at Wildwood Plaza
3200 Windy Hill Road, SE
Atlanta, Geogia 30339
Phone: (678) 486-2700

Project #: 0121021
Project Name: I-Schneid
Location:
Project Manager: Jeff Bilkert

Sample Location:		Collector(s):	Kevin Gerrard
Address:			
PID Meter Used: (Model, Serial #)		Date:	7/5/16

Sample ID: OA-01-20160705-01
Duplicate Sample? (Y/N)
Duplicate Sample ID:
Type of sample (circle one): INDOOR AIR | AMBIENT AIR | SOIL GAS

Photograph description:

Summa® Information

Canister Serial Number: 221	Flow Controller Number: 0702
Start Date/Time: 7/5/16 0955	Stop Date/Time: 7/5/16
Start Pressure: (inches Hg) [1] -29.19	Stop Pressure: (inches Hg) [2]

Other Sampling Information:

Story/Level	outdoors	Ground Surface (pavement, flooring)	Asphalt	Depth of Vapor Probe (if applicable)	/
Room	outdoors	Slab thickness (if applicable)	/	Distance from Building (if applicable)	10.2'
Indoor Air Temp (°F)	NA	Potential Vapor Pathways Observed?	/	Distance to nearest Roadway (ft.)	75.0'
Intake Height Above Ground Level (ft.)	3.0	Noticeable Odor?	No	Weather	partly cloudy 81-85°
Barometric Pressure Initial ("Hg or mb)	/	Barometric Pressure Final ("Hg or mb)	/	Wind Speed (mph)	10 mph SE

Interim Monitoring

Initial Sample Purge (soil gas only):	PID Reading (ppm): /		Noticeable Odor? (Y/N)
Reading #1:	Time: 1055	Summa Vacuum ("Hg): -27.08	Noticeable Odor? (Y/N)
Reading #2:	Time: 1155	Summa Vacuum ("Hg): -24.87	Noticeable Odor? (Y/N)
Reading #3:	Time: 1255	Summa Vacuum ("Hg): -23.07	Noticeable Odor? (Y/N)
Reading #4:	Time: 1355	Summa Vacuum ("Hg): -21.11	Noticeable Odor? (Y/N)
Reading #5:	Time: 1455	Summa Vacuum ("Hg): -19.10	Noticeable Odor? (Y/N)

Sketch of Sample Location:

1555 -16.75
1655 -14.37
1755 -11.72
[redacted] [redacted]
1845 -10.18 Sample complete valve closed

Comments:

1- Verify pressure did not decrease noticeably from laboratory reported value.

2 - If final pressure does not change much from initial pressure, send the sample to the laboratory and indicate "HOLD" on the chain-of-custody. Also request that the laboratory determine the final pressure and contact the ERM coordinator for further instruction.

Laboratory Reports

Appendix D

August 2016
Project No. 0121021
I. Schneid Liquidation
Atlanta, GA

Environmental Resources Management
3200 Windy Hill Rd. Suite 1500W
Atlanta, GA 30339
(678) 486-2700

ANALYTICAL REPORT

Lab Number:	L1617940
Client:	ERM, Inc. 3200 Windy Hill Road, SE Suite 1500W Atlanta, GA 30339
ATTN:	Nicolas Vrey
Phone:	(678) 486-2762
Project Name:	I-SCHNEID
Project Number:	0121021
Report Date:	06/17/16

Certifications & Approvals: NY (11627), CT (PH-0141), NH (2206), NJ NELAP (MA015), RI (LAO00299), ME (MA00030), PA (68-02089), VA (460194), LA NELAP (03090), FL (E87814), TX (T104704419), WA (C954), USFWS (Permit #LE2069641), USDA (Permit #P330-11-00109), US Army Corps of Engineers.

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com

Project Name: I-SCHNEID
Project Number: 0121021

Lab Number: L1617940
Report Date: 06/17/16

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1617940-01	SG-1-3'	SOIL_VAPOR	ATLANTA, GA	06/08/16 09:20	06/10/16
L1617940-02	SG-1-7'	SOIL_VAPOR	ATLANTA, GA	06/08/16 09:45	06/10/16
L1617940-03	SG-1-11'	SOIL_VAPOR	ATLANTA, GA	06/08/16 09:55	06/10/16
L1617940-04	SG-2-3'	SOIL_VAPOR	ATLANTA, GA	06/08/16 10:45	06/10/16
L1617940-05	SG-2-7'	SOIL_VAPOR	ATLANTA, GA	06/08/16 11:01	06/10/16
L1617940-06	SG-2-11'	SOIL_VAPOR	ATLANTA, GA	06/08/16 11:09	06/10/16
L1617940-07	SSV-1	SOIL_VAPOR	ATLANTA, GA	06/08/16 11:47	06/10/16
L1617940-08	SSV-2	SOIL_VAPOR	ATLANTA, GA	06/08/16 12:36	06/10/16
L1617940-09	SSV-3	SOIL_VAPOR	ATLANTA, GA	06/08/16 13:05	06/10/16
L1617940-10	DUP-01	SOIL_VAPOR	ATLANTA, GA	06/08/16 00:00	06/10/16
L1617940-11	UNUSED CAN#472	SOIL_VAPOR	ATLANTA, GA		06/10/16

Project Name: I-SCHNEID
Project Number: 0121021

Lab Number: L1617940
Report Date: 06/17/16

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: I-SCHNEID
Project Number: 0121021

Lab Number: L1617940
Report Date: 06/17/16

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on June 3, 2016. The canister certification results are provided as an addendum.

Samples L1617940-01, -02, -03, and -06: The samples have elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

Sample L1617940-01: The sample was diluted and re-analyzed to quantify the results within the calibration range. The result(s) should be considered estimated, and are qualified with an E flag, for any compound(s) that exceeded the calibration range in the initial analysis. The re-analysis was performed only for the compound(s) that exceeded the calibration range.

Samples L1617940-04, -05, -07, -08, and -10: The samples have elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the samples.

WG904730-5: The internal standard (IS) response for Chlorobenzene-d5 (143%) was above the acceptance criteria; since the response for the target compounds are within duplicate criteria, no other action was taken. Since the IS response was above method criteria, all associated compounds are considered to have a potentially low bias

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Christopher J. Anderson

Title: Technical Director/Representative Date: 06/17/16

AIR

Project Name: I-SCHNEID
Project Number: 0121021

Lab Number: L1617940
Report Date: 06/17/16

SAMPLE RESULTS

Lab ID: L1617940-01 D
Client ID: SG-1-3'
Sample Location: ATLANTA, GA
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15-SIM
Analytical Date: 06/17/16 07:29
Analyst: RY

Date Collected: 06/08/16 09:20
Date Received: 06/10/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Chlorobenzene	ND	49.4	--	ND	228	--		493.7
Ethylbenzene	14900	9.87	--	64700	42.9	--		493.7
p/m-Xylene	70300	19.7	--	305000	85.6	--	E	493.7
o-Xylene	19600	9.87	--	85100	42.9	--		493.7
1,4-Dichlorobenzene	15900	9.87	--	95600	59.3	--		493.7
Naphthalene	3710	24.7	--	19500	130	--		493.7

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	110		60-140
bromochloromethane	104		60-140
chlorobenzene-d5	116		60-140

Project Name: I-SCHNEID
Project Number: 0121021

Lab Number: L1617940
Report Date: 06/17/16

SAMPLE RESULTS

Lab ID: L1617940-01 D2
Client ID: SG-1-3'
Sample Location: ATLANTA, GA
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15-SIM
Analytical Date: 06/17/16 08:09
Analyst: RY

Date Collected: 06/08/16 09:20
Date Received: 06/10/16
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
p/m-Xylene	82100	39.5	--	357000	172	--		987.4
Xylenes, Total	103000	19.7	--	447000	85.6	--		987.4

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	109		60-140
bromochloromethane	101		60-140
chlorobenzene-d5	112		60-140

Project Name: I-SCHNEID
Project Number: 0121021

Lab Number: L1617940
Report Date: 06/17/16

SAMPLE RESULTS

Lab ID: L1617940-02 D
Client ID: SG-1-7'
Sample Location: ATLANTA, GA
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15-SIM
Analytical Date: 06/16/16 21:28
Analyst: RY

Date Collected: 06/08/16 09:45
Date Received: 06/10/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Chlorobenzene	ND	19.4	--	ND	89.3	--		193.6
Ethylbenzene	3640	3.87	--	15800	16.8	--		193.6
p/m-Xylene	16900	7.74	--	73400	33.6	--		193.6
o-Xylene	5420	3.87	--	23500	16.8	--		193.6
1,4-Dichlorobenzene	5860	3.87	--	35200	23.3	--		193.6
Naphthalene	2580	9.68	--	13500	50.8	--		193.6
Xylenes, Total	22300	3.87	--	96900	16.8	--		193.6

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	135		60-140
bromochloromethane	126		60-140
chlorobenzene-d5	139		60-140

Project Name: I-SCHNEID
Project Number: 0121021

Lab Number: L1617940
Report Date: 06/17/16

SAMPLE RESULTS

Lab ID: L1617940-03 D
Client ID: SG-1-11'
Sample Location: ATLANTA, GA
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15-SIM
Analytical Date: 06/16/16 22:00
Analyst: RY

Date Collected: 06/08/16 09:55
Date Received: 06/10/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Chlorobenzene	576	20.2	--	2650	93.0	--		201.9
Ethylbenzene	2150	4.04	--	9340	17.5	--		201.9
p/m-Xylene	8720	8.08	--	37900	35.1	--		201.9
o-Xylene	4380	4.04	--	19000	17.5	--		201.9
1,4-Dichlorobenzene	2790	4.04	--	16800	24.3	--		201.9
Naphthalene	603	10.1	--	3160	53.0	--		201.9
Xylenes, Total	13100	4.04	--	56900	17.5	--		201.9

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	125		60-140
bromochloromethane	117		60-140
chlorobenzene-d5	125		60-140

Project Name: I-SCHNEID
Project Number: 0121021
Lab Number: L1617940
Report Date: 06/17/16

SAMPLE RESULTS

Lab ID: L1617940-04 D
Client ID: SG-2-3'
Sample Location: ATLANTA, GA
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15-SIM
Analytical Date: 06/16/16 16:40
Analyst: RY

Date Collected: 06/08/16 10:45
Date Received: 06/10/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Chlorobenzene	67.4	2.01	--	310	9.26	--		20.07
Ethylbenzene	25.2	0.401	--	109	1.74	--		20.07
p/m-Xylene	461	0.803	--	2000	3.49	--		20.07
o-Xylene	612	0.401	--	2660	1.74	--		20.07
1,4-Dichlorobenzene	61.8	0.401	--	372	2.41	--		20.07
Naphthalene	24.0	1.00	--	126	5.24	--		20.07
Xylenes, Total	1070	0.401	--	4650	1.74	--		20.07

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	98		60-140
bromochloromethane	100		60-140
chlorobenzene-d5	118		60-140

Project Name: I-SCHNEID
Project Number: 0121021

Lab Number: L1617940
Report Date: 06/17/16

SAMPLE RESULTS

Lab ID: L1617940-05 D
Client ID: SG-2-7'
Sample Location: ATLANTA, GA
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15-SIM
Analytical Date: 06/16/16 17:11
Analyst: RY

Date Collected: 06/08/16 11:01
Date Received: 06/10/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Chlorobenzene	64.1	2.01	--	295	9.26	--		20.07
Ethylbenzene	26.7	0.401	--	116	1.74	--		20.07
p/m-Xylene	288	0.803	--	1250	3.49	--		20.07
o-Xylene	396	0.401	--	1720	1.74	--		20.07
1,4-Dichlorobenzene	89.1	0.401	--	536	2.41	--		20.07
Naphthalene	79.6	1.00	--	417	5.24	--		20.07
Xylenes, Total	684	0.401	--	2970	1.74	--		20.07

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	114		60-140
bromochloromethane	108		60-140
chlorobenzene-d5	133		60-140

Project Name: I-SCHNEID
Project Number: 0121021
Lab Number: L1617940
Report Date: 06/17/16

SAMPLE RESULTS

Lab ID: L1617940-06 D
Client ID: SG-2-11'
Sample Location: ATLANTA, GA
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15-SIM
Analytical Date: 06/17/16 06:57
Analyst: RY

Date Collected: 06/08/16 11:09
Date Received: 06/10/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Chlorobenzene	138	2.01	--	636	9.26	--		20.07
Ethylbenzene	317	0.401	--	1380	1.74	--		20.07
p/m-Xylene	1440	0.803	--	6250	3.49	--		20.07
o-Xylene	848	0.401	--	3680	1.74	--		20.07
1,4-Dichlorobenzene	141	0.401	--	848	2.41	--		20.07
Naphthalene	45.9	1.00	--	241	5.24	--		20.07
Xylenes, Total	2290	0.401	--	9950	1.74	--		20.07

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	107		60-140
bromochloromethane	103		60-140
chlorobenzene-d5	116		60-140

Project Name: I-SCHNEID
Project Number: 0121021
Lab Number: L1617940
Report Date: 06/17/16

SAMPLE RESULTS

Lab ID: L1617940-07 D
Client ID: SSV-1
Sample Location: ATLANTA, GA
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15-SIM
Analytical Date: 06/16/16 18:45
Analyst: RY

Date Collected: 06/08/16 11:47
Date Received: 06/10/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Chlorobenzene	1.18	0.500	--	5.43	2.30	--		5
Ethylbenzene	5.70	0.100	--	24.8	0.434	--		5
p/m-Xylene	30.6	0.200	--	133	0.869	--		5
o-Xylene	9.24	0.100	--	40.1	0.434	--		5
1,4-Dichlorobenzene	11.0	0.100	--	66.1	0.601	--		5
Naphthalene	11.2	0.250	--	58.7	1.31	--		5
Xylenes, Total	39.8	0.100	--	173	0.434	--		5

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	130		60-140
bromochloromethane	123		60-140
chlorobenzene-d5	131		60-140

Project Name: I-SCHNEID
Project Number: 0121021
Lab Number: L1617940
Report Date: 06/17/16

SAMPLE RESULTS

Lab ID: L1617940-08 D
Client ID: SSV-2
Sample Location: ATLANTA, GA
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15-SIM
Analytical Date: 06/16/16 19:16
Analyst: RY

Date Collected: 06/08/16 12:36
Date Received: 06/10/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Chlorobenzene	ND	1.00	--	ND	4.61	--		10
Ethylbenzene	7.44	0.200	--	32.3	0.869	--		10
p/m-Xylene	39.1	0.400	--	170	1.74	--		10
o-Xylene	16.6	0.200	--	72.1	0.869	--		10
1,4-Dichlorobenzene	21.1	0.200	--	127	1.20	--		10
Naphthalene	24.4	0.500	--	128	2.62	--		10
Xylenes, Total	55.7	0.200	--	242	0.869	--		10

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	123		60-140
bromochloromethane	118		60-140
chlorobenzene-d5	126		60-140

Project Name: I-SCHNEID
Project Number: 0121021
Lab Number: L1617940
Report Date: 06/17/16

SAMPLE RESULTS

Lab ID: L1617940-09
Client ID: SSV-3
Sample Location: ATLANTA, GA
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15-SIM
Analytical Date: 06/16/16 19:51
Analyst: RY

Date Collected: 06/08/16 13:05
Date Received: 06/10/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Chlorobenzene	0.117	0.100	--	0.539	0.461	--		1
Ethylbenzene	1.05	0.020	--	4.56	0.087	--		1
p/m-Xylene	6.60	0.040	--	28.7	0.174	--		1
o-Xylene	3.12	0.020	--	13.6	0.087	--		1
1,4-Dichlorobenzene	8.68	0.020	--	52.2	0.120	--		1
Naphthalene	15.6	0.050	--	81.8	0.262	--		1
Xylenes, Total	9.71	0.020	--	42.2	0.087	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	127		60-140
bromochloromethane	117		60-140
chlorobenzene-d5	128		60-140

Project Name: I-SCHNEID
Project Number: 0121021

Lab Number: L1617940
Report Date: 06/17/16

SAMPLE RESULTS

Lab ID: L1617940-10 D
Client ID: DUP-01
Sample Location: ATLANTA, GA
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15-SIM
Analytical Date: 06/16/16 20:23
Analyst: RY

Date Collected: 06/08/16 00:00
Date Received: 06/10/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Chlorobenzene	ND	0.500	--	ND	2.30	--		5
Ethylbenzene	5.09	0.100	--	22.1	0.434	--		5
p/m-Xylene	26.2	0.200	--	114	0.869	--		5
o-Xylene	8.90	0.100	--	38.7	0.434	--		5
1,4-Dichlorobenzene	9.99	0.100	--	60.1	0.601	--		5
Naphthalene	6.02	0.250	--	31.6	1.31	--		5
Xylenes, Total	35.1	0.100	--	152	0.434	--		5

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	127		60-140
bromochloromethane	120		60-140
chlorobenzene-d5	126		60-140

Project Name: I-SCHNEID
Project Number: 0121021
Lab Number: L1617940
Report Date: 06/17/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15-SIM
Analytical Date: 06/16/16 15:44

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-10 Batch: WG904730-4								
Xylenes, Total	ND	0.020	--	ND	0.087	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1

Lab Control Sample Analysis

Batch Quality Control

Project Name: I-SCHNEID

Project Number: 0121021

Lab Number: L1617940

Report Date: 06/17/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-10 Batch: WG904730-3								
Propylene	88		-		70-130	-		25
Dichlorodifluoromethane	77		-		70-130	-		25
Chloromethane	86		-		70-130	-		25
1,2-Dichloro-1,1,2,2-tetrafluoroethane	84		-		70-130	-		25
Vinyl chloride	85		-		70-130	-		25
1,3-Butadiene	91		-		70-130	-		25
Bromomethane	86		-		70-130	-		25
Chloroethane	85		-		70-130	-		25
Ethyl Alcohol	96		-		70-130	-		25
Vinyl bromide	80		-		70-130	-		25
Acetone	90		-		70-130	-		25
Trichlorofluoromethane	84		-		70-130	-		25
iso-Propyl Alcohol	89		-		70-130	-		25
Acrylonitrile	85		-		70-130	-		25
1,1-Dichloroethene	84		-		70-130	-		25
Methylene chloride	93		-		70-130	-		25
3-Chloropropene	86		-		70-130	-		25
Carbon disulfide	77		-		70-130	-		25
1,1,2-Trichloro-1,2,2-Trifluoroethane	79		-		70-130	-		25
Halothane	79		-		70-130	-		25
trans-1,2-Dichloroethene	**68**	Q	-		70-130	-		25

Lab Control Sample Analysis

Batch Quality Control

Project Name: I-SCHNEID

Project Number: 0121021

Lab Number: L1617940

Report Date: 06/17/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-10 Batch: WG904730-3								
1,1-Dichloroethane	91		-		70-130	-		25
Methyl tert butyl ether	83		-		70-130	-		25
Vinyl acetate	**29**	Q	-		70-130	-		25
2-Butanone	94		-		70-130	-		25
cis-1,2-Dichloroethene	93		-		70-130	-		25
Ethyl Acetate	96		-		70-130	-		25
Chloroform	93		-		70-130	-		25
Tetrahydrofuran	96		-		70-130	-		25
1,2-Dichloroethane	92		-		70-130	-		25
n-Hexane	102		-		70-130	-		25
1,1,1-Trichloroethane	111		-		70-130	-		25
Benzene	101		-		70-130	-		25
Carbon tetrachloride	113		-		70-130	-		25
Cyclohexane	100		-		70-130	-		25
1,2-Dichloropropane	109		-		70-130	-		25
Bromodichloromethane	113		-		70-130	-		25
1,4-Dioxane	104		-		70-130	-		25
Trichloroethene	103		-		70-130	-		25
2,2,4-Trimethylpentane	114		-		70-130	-		25
cis-1,3-Dichloropropene	100		-		70-130	-		25
4-Methyl-2-pentanone	119		-		70-130	-		25

Lab Control Sample Analysis

Batch Quality Control

Project Name: I-SCHNEID

Project Number: 0121021

Lab Number: L1617940

Report Date: 06/17/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-10 Batch: WG904730-3								
trans-1,3-Dichloropropene	93		-		70-130	-		25
1,1,2-Trichloroethane	109		-		70-130	-		25
Toluene	97		-		70-130	-		25
2-Hexanone	122		-		70-130	-		25
Dibromochloromethane	107		-		70-130	-		25
1,2-Dibromoethane	101		-		70-130	-		25
Tetrachloroethene	96		-		70-130	-		25
1,1,1,2-Tetrachloroethane	99		-		70-130	-		25
Chlorobenzene	99		-		70-130	-		25
Ethylbenzene	99		-		70-130	-		25
p/m-Xylene	108		-		70-130	-		25
Bromoform	107		-		70-130	-		25
Styrene	104		-		70-130	-		25
1,1,2,2-Tetrachloroethane	105		-		70-130	-		25
o-Xylene	108		-		70-130	-		25
Isopropylbenzene	102		-		70-130	-		25
4-Ethyltoluene	112		-		70-130	-		25
1,3,5-Trimethylbenzene	107		-		70-130	-		25
1,2,4-Trimethylbenzene	115		-		70-130	-		25
Benzyl chloride	115		-		70-130	-		25
1,3-Dichlorobenzene	111		-		70-130	-		25

Lab Control Sample Analysis

Batch Quality Control

Project Name: I-SCHNEID

Project Number: 0121021

Lab Number: L1617940

Report Date: 06/17/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-10 Batch: WG904730-3								
1,4-Dichlorobenzene	101		-		70-130	-		25
sec-Butylbenzene	109		-		70-130	-		25
p-Isopropyltoluene	97		-		70-130	-		25
1,2-Dichlorobenzene	107		-		70-130	-		25
n-Butylbenzene	114		-		70-130	-		25
1,2,4-Trichlorobenzene	101		-		70-130	-		25
Naphthalene	104		-		70-130	-		25
1,2,3-Trichlorobenzene	102		-		70-130	-		25
Hexachlorobutadiene	108		-		70-130	-		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: I-SCHNEID
Project Number: 0121021

Lab Number: L1617940
Report Date: 06/17/16

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG904730-5 QC Sample: L1617940-05 Client ID: SG-2-7'						
Chlorobenzene	64.1	62.1	ppbV	3		25
Ethylbenzene	26.7	26.4	ppbV	1		25
p/m-Xylene	288	282	ppbV	2		25
o-Xylene	396	380	ppbV	4		25
1,4-Dichlorobenzene	89.1	84.6	ppbV	5		25
Naphthalene	79.6	79.8	ppbV	0		25
Xylenes, Total	684	662	ppbV	3		25

Project Name: I-SCHNEID

Project Number: 0121021

Lab Number: L1617940

Report Date: 06/17/16

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L1617940-01	SG-1-3'	0650	SV200	06/03/16	222919		-	-	-	Pass	210	204	3
L1617940-01	SG-1-3'	141	2.7L Can	06/03/16	222919	L1615757-02	Pass	-30.0	-1.5	-	-	-	-
L1617940-02	SG-1-7'	0511	SV200	06/03/16	222919		-	-	-	Pass	218	204	7
L1617940-02	SG-1-7'	502	2.7L Can	06/03/16	222919	L1615757-02	Pass	-30.0	-1.1	-	-	-	-
L1617940-03	SG-1-11'	0602	SV200	06/03/16	222919		-	-	-	Pass	210	203	3
L1617940-03	SG-1-11'	1804	2.7L Can	06/03/16	222919	L1615757-02	Pass	-29.5	-2.1	-	-	-	-
L1617940-04	SG-2-3'	0658	SV200	06/03/16	222919		-	-	-	Pass	222	208	7
L1617940-04	SG-2-3'	446	2.7L Can	06/03/16	222919	L1615757-02	Pass	-30.0	-0.9	-	-	-	-
L1617940-05	SG-2-7'	0689	SV200	06/03/16	222919		-	-	-	Pass	217	206	5
L1617940-05	SG-2-7'	151B	2.7L Can	06/03/16	222919	L1615757-02	Pass	-30.0	-1.1	-	-	-	-
L1617940-06	SG-2-11'	0686	SV200	06/03/16	222919		-	-	-	Pass	210	201	4
L1617940-06	SG-2-11'	391	2.7L Can	06/03/16	222919	L1615757-02	Pass	-30.0	-1.1	-	-	-	-
L1617940-07	SSV-1	0604	SV200	06/03/16	222919		-	-	-	Pass	210	203	3
L1617940-07	SSV-1	212	2.7L Can	06/03/16	222919	L1615757-02	Pass	-30.0	-1.4	-	-	-	-
L1617940-08	SSV-2	0707	SV200	06/03/16	222919		-	-	-	Pass	213	205	4

Project Name: I-SCHNEID

Project Number: 0121021

Lab Number: L1617940

Report Date: 06/17/16

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L1617940-08	SSV-2	546	2.7L Can	06/03/16	222919	L1615757-02	Pass	-30.0	-1.2	-	-	-	-
L1617940-09	SSV-3	0520	SV200	06/03/16	222919		-	-	-	Pass	210	204	3
L1617940-09	SSV-3	352	2.7L Can	06/03/16	222919	L1615757-02	Pass	-30.0	-1.5	-	-	-	-
L1617940-10	DUP-01	0596	SV200	06/03/16	222919		-	-	-	Pass	213	203	5
L1617940-10	DUP-01	527	2.7L Can	06/03/16	222919	L1615757-02	Pass	-30.0	-1.3	-	-	-	-
L1617940-11	UNUSED CAN#472	0688	SV200	06/03/16	222919		-	-	-	Pass	220	200	10
L1617940-11	UNUSED CAN#472	472	2.7L Can	06/03/16	222919	L1615757-02	Pass	-30.0	-29.4	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1615757
Report Date: 06/17/16

Air Canister Certification Results

Lab ID: L1615757-02
Client ID: CAN 1727 SHELF 13
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 05/25/16 17:21
Analyst: RY

Date Collected: 05/24/16 16:00
Date Received: 05/25/16
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1615757
Report Date: 06/17/16

Air Canister Certification Results

Lab ID: L1615757-02
Client ID: CAN 1727 SHELF 13
Sample Location:
Date Collected: 05/24/16 16:00
Date Received: 05/25/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1615757
Report Date: 06/17/16

Air Canister Certification Results

Lab ID: L1615757-02
Client ID: CAN 1727 SHELF 13
Sample Location:
Date Collected: 05/24/16 16:00
Date Received: 05/25/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1615757
Report Date: 06/17/16

Air Canister Certification Results

Lab ID: L1615757-02
Client ID: CAN 1727 SHELF 13
Sample Location:
Date Collected: 05/24/16 16:00
Date Received: 05/25/16
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					
No Tentatively Identified Compounds					

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1615757

Project Number: CANISTER QC BAT **Report Date:** 06/17/16

Air Canister Certification Results

Lab ID: L1615757-02 Date Collected: 05/24/16 16:00

Client ID: CAN 1727 SHELF 13 Date Received: 05/25/16

Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	89		60-140
Bromochloromethane	94		60-140
chlorobenzene-d5	85		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1615757
Report Date: 06/17/16

Air Canister Certification Results

Lab ID: L1615757-02
Client ID: CAN 1727 SHELF 13
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 05/25/16 17:21
Analyst: RY

Date Collected: 05/24/16 16:00
Date Received: 05/25/16
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1615757
Report Date: 06/17/16

Air Canister Certification Results

Lab ID: L1615757-02
Client ID: CAN 1727 SHELF 13
Sample Location:
Date Collected: 05/24/16 16:00
Date Received: 05/25/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1615757
Report Date: 06/17/16

Air Canister Certification Results

Lab ID: L1615757-02
Client ID: CAN 1727 SHELF 13
Sample Location:
Date Collected: 05/24/16 16:00
Date Received: 05/25/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	86		60-140
bromochloromethane	92		60-140
chlorobenzene-d5	86		60-140

Project Name: I-SCHNEID
Project Number: 0121021

Lab Number: L1617940
Report Date: 06/17/16

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information **Custody Seal**
Cooler
N/A Present/Intact

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1617940-01A	Canister - 2.7 Liter	N/A	N/A		Y	Absent	TO15-SIM(30)
L1617940-02A	Canister - 2.7 Liter	N/A	N/A		Y	Absent	TO15-SIM(30)
L1617940-03A	Canister - 2.7 Liter	N/A	N/A		Y	Absent	TO15-SIM(30)
L1617940-04A	Canister - 2.7 Liter	N/A	N/A		Y	Absent	TO15-SIM(30)
L1617940-05A	Canister - 2.7 Liter	N/A	N/A		Y	Absent	TO15-SIM(30)
L1617940-06A	Canister - 2.7 Liter	N/A	N/A		Y	Absent	TO15-SIM(30)
L1617940-07A	Canister - 2.7 Liter	N/A	N/A		Y	Absent	TO15-SIM(30)
L1617940-08A	Canister - 2.7 Liter	N/A	N/A		Y	Absent	TO15-SIM(30)
L1617940-09A	Canister - 2.7 Liter	N/A	N/A		Y	Absent	TO15-SIM(30)
L1617940-10A	Canister - 2.7 Liter	N/A	N/A		Y	Absent	TO15-SIM(30)
L1617940-11A	Canister - 2.7 Liter	N/A	N/A		Y	Absent	CLEAN-FEE()

*Values in parentheses indicate holding time in days

Project Name:	I-SCHNEID	**Lab Number:**	L1617940
Project Number:	0121021	**Report Date:**	06/17/16

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the

Report Format: Data Usability Report

Project Name:	I-SCHNEID	**Lab Number:**	L1617940
Project Number:	0121021	**Report Date:**	06/17/16

Data Qualifiers

reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

REFERENCES

48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 524.2: 1,2-Dibromo-3-chloropropane, 1,2-Dibromoethane, m/p-xylene, o-xylene
EPA 624: 2-Butanone (MEK), 1,4-Dioxane, tert-Amylmethyl Ether, tert-Butyl Alcohol, m/p-xylene, o-xylene
EPA 625: Aniline, Benzoic Acid, Benzyl Alcohol, 4-Chloroaniline, 3-Methylphenol, 4-Methylphenol.
EPA 1010A: NPW: Ignitability
EPA 6010C: NPW: Strontium; SCM: Strontium
EPA 8151A: NPW: 2,4-DB, Dicamba, Dichloroprop, MCPA, MCPP; SCM: 2,4-DB, Dichloroprop, MCPA, MCPP
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene, Isopropanol; SCM: Iodomethane (methyl iodide), Methyl methacrylate (soil); 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Pentachloronitrobenzene, 1-Methylnaphthalene, Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Pentachloronitrobenzene, 1-Methylnaphthalene, Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 9010: NPW: Amenable Cyanide Distillation, Total Cyanide Distillation
EPA 9038: NPW: Sulfate
EPA 9050A: NPW: Specific Conductance
EPA 9056: NPW: Chloride, Nitrate, Sulfate
EPA 9065: NPW: Phenols
EPA 9251: NPW: Chloride
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
EPA 8270D: NPW: Biphenyl; SCM: Biphenyl, Caprolactam
EPA 8270D-SIM Isotope Dilution: SCM: 1,4-Dioxane
SM 2540D: TSS
SM2540G: SCM: Percent Solids
EPA 1631E: SCM: Mercury
EPA 7474: SCM: Mercury
EPA 8081B: NPW and SCM: Mirex, Hexachlorobenzene.
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA 8270-SIM: NPW and SCM: Alkylated PAHs.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene, n-Butylbenzene, n-Propylbenzene, sec-Butylbenzene, tert-Butylbenzene.
Biological Tissue Matrix: ***8270D-SIM; 3050B; 3051A; 7471B; 8081B; 8082A; 6020A:*** Lead***; 8270D:*** bis(2-ethylhexyl)phthalate, Butylbenzylphthalate, Diethyl phthalate, Dimethyl phthalate, Di-n-butyl phthalate, Di-n-octyl phthalate, Fluoranthene, Pentachlorophenol.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water
EPA 200.8: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7**: Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;
EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

Non-Potable Water
EPA 200.8: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;
EPA 200.7: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;
EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F,**
EPA 353.2: Nitrate-N**, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF**.

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

AIR ANALYSIS

PAGE 1 OF 1

ALPHA ANALYTICAL — CHAIN OF CUSTODY

320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 6/10/16

ALPHA Job #: L1617940

Client Information

Client: ERM
Address: 3200 Windy Hill Rd
Atlanta, GA 30339
Phone: 678-486-2700
Fax:
Email: jeff.bilkert@erm.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: I Schneid
Project Location: Atlanta, GA
Project #: 0121021
Project Manager: Jeff Bilkert
ALPHA Quote #:

Turn-Around Time

☐ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX
☐ ADEx
Criteria Checker:
(Default based on Regulatory Criteria Indicated)
Other Formats:
☑ EMAIL (standard pdf report)
☐ Additional Deliverables:
Report to: (if different than Project Manager)
Nic Vrey
nic.vrey@erm.com

Billing Information

☑ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	TO-15	TO-15 SIM	APH Subtract Non-petroleum HCs ☐	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
L1617940.01	SG-1-3'	6/8/16	0905	0920	-28.98	-0.66	SV	ALR/CB	2.7	141	0650	X					
02	SG-1-7'	6/8/16	0930	0945	-28.86	-0.33	SV	ALR/CB	2.7	502	0511	X					
03	SG-1-11'	6/8/16	0939	0955	-29.22 ~~-29.~~	-0.89	SV	ALR/CB	2.7	804	0602	X					
04	SG-2-3'	6/8/16	1028	1045	-29.33	-0.09	SV	ALR/CB	2.7	446	0658	X					
05	SG-2-7'	6/8/16	1046	~~1101~~	-28.88	-0.21	SV	ALR/CB	2.7	1518	0689	X					
06	SG-2-11'	6/8/16	1055	1109	-28.44	-0.0	SV	ALR/CB	2.7	391	0686	X					
07	SSV-1	6/8/16	1133	~~1147~~ 1147	-29.03	-0.28	SV	ALR/CB	2.7	212	0604	X					
08	SSV-2	6/8/16	1221	1236	-28.65	-0.17	SV	ALR/CB	2.7	546	0707	X					
09	SSV-3	6/8/16	1250	1305	-29.34	-0.82	SV	ALR/CB	2.7	352	0520	X					
10	DUP-01	6/8/16			-28.81	-0.14	SV	ALR/CB	2.7	527	0596	X					Sample duration was 16 minutes

*SAMPLE MATRIX CODES
AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Relinquished By:	Date/Time	Received By:	Date/Time:
Charlie Brooks	6/8/16	FedEx	
Adria Reimer / Charlie Brooks			
FedEx			6/10/16 10:30

ANALYTICAL REPORT

Lab Number:	L1621168
Client:	ERM, Inc. 300 Chastain Center Boulevard Suite 375 Kennesaw, GA 35144
ATTN:	Jeff Bilkert
Phone:	(770) 590-8383
Project Name:	I-SCHNEID
Project Number:	0121021
Report Date:	07/15/16

Certifications & Approvals: NY (11627), CT (PH-0141), NH (2206), NJ NELAP (MA015), RI (LAO00299), ME (MA00030), PA (68-02089), VA (460194), LA NELAP (03090), FL (E87814), TX (T104704419), WA (C954), USFWS (Permit #LE2069641), USDA (Permit #P330-11-00109), US Army Corps of Engineers.

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com

Project Name: I-SCHNEID
Project Number: 0121021

Lab Number: L1621168
Report Date: 07/15/16

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1621168-01	OA-01-20160705-01	AIR	ATLANTA, GA	07/05/16 18:45	07/11/16
L1621168-02	IA-01-20160705-01	AIR	ATLANTA, GA	07/05/16 18:30	07/11/16
L1621168-03	IA-02-20160705-01	AIR	ATLANTA, GA	07/05/16 16:40	07/08/16
L1621168-04	IA-03-20160705-01	AIR	ATLANTA, GA	07/05/16 18:10	07/08/16
L1621168-05	IA-04-20160705-01	AIR	ATLANTA, GA	07/05/16 18:15	07/08/16
L1621168-06	IA-05-20160705-01	AIR	ATLANTA, GA	07/05/16 18:40	07/11/16
L1621168-07	DUP-01-20160705-01	AIR	ATLANTA, GA	07/05/16 00:00	07/11/16
L1621168-08	UNUSED CAN#388	AIR	ATLANTA, GA		07/11/16

Project Name: I-SCHNEID
Project Number: 0121021

Lab Number: L1621168
Report Date: 07/15/16

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: I-SCHNEID
Project Number: 0121021

Lab Number: L1621168
Report Date: 07/15/16

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on June 30, 2016. The canister certification results are provided as an addendum.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Christopher J. Anderson

Title: Technical Director/Representative Date: 07/15/16

AIR

Project Name: I-SCHNEID
Project Number: 0121021
Lab Number: L1621168
Report Date: 07/15/16

SAMPLE RESULTS

Lab ID: L1621168-01
Client ID: OA-01-20160705-01
Sample Location: ATLANTA, GA
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 07/14/16 20:38
Analyst: MB

Date Collected: 07/05/16 18:45
Date Received: 07/11/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	0.176	0.020	--	0.764	0.087	--		1
p/m-Xylene	0.484	0.040	--	2.10	0.174	--		1
o-Xylene	0.137	0.020	--	0.595	0.087	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
Xylenes, Total	0.621	0.020	--	2.70	0.087	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	82		60-140
bromochloromethane	87		60-140
chlorobenzene-d5	85		60-140

Project Name: I-SCHNEID
Project Number: 0121021
Lab Number: L1621168
Report Date: 07/15/16

SAMPLE RESULTS

Lab ID: L1621168-02
Client ID: IA-01-20160705-01
Sample Location: ATLANTA, GA
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 07/14/16 21:09
Analyst: MB

Date Collected: 07/05/16 18:30
Date Received: 07/11/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	0.033	0.020	--	0.143	0.087	--		1
p/m-Xylene	0.099	0.040	--	0.430	0.174	--		1
o-Xylene	0.042	0.020	--	0.182	0.087	--		1
1,4-Dichlorobenzene	0.079	0.020	--	0.475	0.120	--		1
Naphthalene	0.058	0.050	--	0.304	0.262	--		1
Xylenes, Total	0.141	0.020	--	0.612	0.087	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	85		60-140
bromochloromethane	90		60-140
chlorobenzene-d5	87		60-140

Project Name: I-SCHNEID
Project Number: 0121021
Lab Number: L1621168
Report Date: 07/15/16

SAMPLE RESULTS

Lab ID: L1621168-03
Client ID: IA-02-20160705-01
Sample Location: ATLANTA, GA
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 07/14/16 21:41
Analyst: MB

Date Collected: 07/05/16 16:40
Date Received: 07/08/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	0.029	0.020	--	0.126	0.087	--		1
p/m-Xylene	0.090	0.040	--	0.391	0.174	--		1
o-Xylene	0.037	0.020	--	0.161	0.087	--		1
1,4-Dichlorobenzene	0.093	0.020	--	0.559	0.120	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
Xylenes, Total	0.127	0.020	--	0.552	0.087	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	85		60-140
bromochloromethane	89		60-140
chlorobenzene-d5	88		60-140

Project Name: I-SCHNEID
Project Number: 0121021
Lab Number: L1621168
Report Date: 07/15/16

SAMPLE RESULTS

Lab ID: L1621168-04
Client ID: IA-03-20160705-01
Sample Location: ATLANTA, GA
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 07/14/16 22:12
Analyst: MB

Date Collected: 07/05/16 18:10
Date Received: 07/08/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	0.033	0.020	--	0.143	0.087	--		1
p/m-Xylene	0.109	0.040	--	0.473	0.174	--		1
o-Xylene	0.042	0.020	--	0.182	0.087	--		1
1,4-Dichlorobenzene	0.057	0.020	--	0.343	0.120	--		1
Naphthalene	0.066	0.050	--	0.346	0.262	--		1
Xylenes, Total	0.151	0.020	--	0.656	0.087	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	85		60-140
bromochloromethane	90		60-140
chlorobenzene-d5	87		60-140

Project Name: I-SCHNEID
Project Number: 0121021
Lab Number: L1621168
Report Date: 07/15/16

SAMPLE RESULTS

Lab ID: L1621168-05
Client ID: IA-04-20160705-01
Sample Location: ATLANTA, GA
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 07/14/16 22:44
Analyst: MB

Date Collected: 07/05/16 18:15
Date Received: 07/08/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	0.061	0.020	--	0.265	0.087	--		1
p/m-Xylene	0.197	0.040	--	0.856	0.174	--		1
o-Xylene	0.067	0.020	--	0.291	0.087	--		1
1,4-Dichlorobenzene	0.375	0.020	--	2.25	0.120	--		1
Naphthalene	0.084	0.050	--	0.440	0.262	--		1
Xylenes, Total	0.264	0.020	--	1.15	0.087	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	85		60-140
bromochloromethane	90		60-140
chlorobenzene-d5	87		60-140

Project Name: I-SCHNEID
Project Number: 0121021
Lab Number: L1621168
Report Date: 07/15/16

SAMPLE RESULTS

Lab ID: L1621168-06
Client ID: IA-05-20160705-01
Sample Location: ATLANTA, GA
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 07/14/16 23:15
Analyst: MB

Date Collected: 07/05/16 18:40
Date Received: 07/11/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	0.047	0.020	--	0.204	0.087	--		1
p/m-Xylene	0.149	0.040	--	0.647	0.174	--		1
o-Xylene	0.054	0.020	--	0.235	0.087	--		1
1,4-Dichlorobenzene	0.118	0.020	--	0.709	0.120	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
Xylenes, Total	0.203	0.020	--	0.882	0.087	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	84		60-140
bromochloromethane	92		60-140
chlorobenzene-d5	86		60-140

Project Name: I-SCHNEID
Project Number: 0121021
Lab Number: L1621168
Report Date: 07/15/16

SAMPLE RESULTS

Lab ID: L1621168-07
Client ID: DUP-01-20160705-01
Sample Location: ATLANTA, GA
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 07/14/16 23:46
Analyst: MB

Date Collected: 07/05/16 00:00
Date Received: 07/11/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	0.081	0.020	--	0.352	0.087	--		1
p/m-Xylene	0.231	0.040	--	1.00	0.174	--		1
o-Xylene	0.078	0.020	--	0.339	0.087	--		1
1,4-Dichlorobenzene	0.080	0.020	--	0.481	0.120	--		1
Naphthalene	0.052	0.050	--	0.273	0.262	--		1
Xylenes, Total	0.309	0.020	--	1.34	0.087	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	84		60-140
bromochloromethane	98		60-140
chlorobenzene-d5	89		60-140

Project Name: I-SCHNEID
Project Number: 0121021

Lab Number: L1621168
Report Date: 07/15/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15-SIM
Analytical Date: 07/14/16 14:50

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-07 Batch: WG913585-4								
Xylenes, Total	ND	0.020	--	ND	0.087	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1

Lab Control Sample Analysis

Batch Quality Control

Project Name: I-SCHNEID

Project Number: 0121021

Lab Number: L1621168

Report Date: 07/15/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-07 Batch: WG913585-3								
Propylene	111		-		70-130	-		25
Dichlorodifluoromethane	96		-		70-130	-		25
Chloromethane	95		-		70-130	-		25
1,2-Dichloro-1,1,2,2-tetrafluoroethane	89		-		70-130	-		25
Vinyl chloride	94		-		70-130	-		25
1,3-Butadiene	102		-		70-130	-		25
Bromomethane	85		-		70-130	-		25
Chloroethane	94		-		70-130	-		25
Ethyl Alcohol	87		-		70-130	-		25
Vinyl bromide	94		-		70-130	-		25
Acetone	95		-		70-130	-		25
Trichlorofluoromethane	90		-		70-130	-		25
iso-Propyl Alcohol	93		-		70-130	-		25
Acrylonitrile	99		-		70-130	-		25
1,1-Dichloroethene	104		-		70-130	-		25
Methylene chloride	97		-		70-130	-		25
3-Chloropropene	103		-		70-130	-		25
Carbon disulfide	93		-		70-130	-		25
1,1,2-Trichloro-1,2,2-Trifluoroethane	93		-		70-130	-		25
Halothane	86		-		70-130	-		25
trans-1,2-Dichloroethene	77		-		70-130	-		25

Lab Control Sample Analysis

Batch Quality Control

Project Name: I-SCHNEID

Project Number: 0121021

Lab Number: L1621168

Report Date: 07/15/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-07 Batch: WG913585-3								
1,1-Dichloroethane	84		-		70-130	-		25
Methyl tert butyl ether	82		-		70-130	-		25
2-Butanone	87		-		70-130	-		25
cis-1,2-Dichloroethene	98		-		70-130	-		25
Ethyl Acetate	105		-		70-130	-		25
Chloroform	98		-		70-130	-		25
Tetrahydrofuran	119		-		70-130	-		25
1,2-Dichloroethane	95		-		70-130	-		25
n-Hexane	93		-		70-130	-		25
1,1,1-Trichloroethane	101		-		70-130	-		25
Benzene	98		-		70-130	-		25
Carbon tetrachloride	103		-		70-130	-		25
Cyclohexane	103		-		70-130	-		25
1,2-Dichloropropane	103		-		70-130	-		25
Bromodichloromethane	104		-		70-130	-		25
1,4-Dioxane	94		-		70-130	-		25
Trichloroethene	108		-		70-130	-		25
2,2,4-Trimethylpentane	116		-		70-130	-		25
cis-1,3-Dichloropropene	114		-		70-130	-		25
4-Methyl-2-pentanone	114		-		70-130	-		25
trans-1,3-Dichloropropene	99		-		70-130	-		25

Lab Control Sample Analysis

Batch Quality Control

Project Name: I-SCHNEID

Project Number: 0121021

Lab Number: L1621168

Report Date: 07/15/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-07 Batch: WG913585-3								
1,1,2-Trichloroethane	91		-		70-130	-		25
Toluene	92		-		70-130	-		25
2-Hexanone	112		-		70-130	-		25
Dibromochloromethane	101		-		70-130	-		25
1,2-Dibromoethane	91		-		70-130	-		25
Tetrachloroethene	91		-		70-130	-		25
1,1,1,2-Tetrachloroethane	85		-		70-130	-		25
Chlorobenzene	94		-		70-130	-		25
Ethylbenzene	99		-		70-130	-		25
p/m-Xylene	101		-		70-130	-		25
Bromoform	107		-		70-130	-		25
Styrene	104		-		70-130	-		25
1,1,2,2-Tetrachloroethane	94		-		70-130	-		25
o-Xylene	105		-		70-130	-		25
Isopropylbenzene	97		-		70-130	-		25
4-Ethyltoluene	103		-		70-130	-		25
1,3,5-Trimethylbenzene	104		-		70-130	-		25
1,2,4-Trimethylbenzene	109		-		70-130	-		25
Benzyl chloride	110		-		70-130	-		25
1,3-Dichlorobenzene	100		-		70-130	-		25
1,4-Dichlorobenzene	99		-		70-130	-		25

Lab Control Sample Analysis

Batch Quality Control

Project Name: I-SCHNEID

Project Number: 0121021

Lab Number: L1621168

Report Date: 07/15/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-07 Batch: WG913585-3								
sec-Butylbenzene	100		-		70-130	-		25
p-Isopropyltoluene	94		-		70-130	-		25
1,2-Dichlorobenzene	97		-		70-130	-		25
n-Butylbenzene	92		-		70-130	-		25
1,2,4-Trichlorobenzene	99		-		70-130	-		25
Naphthalene	93		-		70-130	-		25
1,2,3-Trichlorobenzene	92		-		70-130	-		25
Hexachlorobutadiene	98		-		70-130	-		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: I-SCHNEID
Project Number: 0121021

Lab Number: L1621168
Report Date: 07/15/16

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG913585-5 QC Sample: L1621095-02 Client ID: DUP Sample						
Propylene	ND	ND	ppbV	NC		25
Dichlorodifluoromethane	0.453	0.469	ppbV	3		25
Vinyl chloride	ND	ND	ppbV	NC		25
Acetone	3.99	3.82	ppbV	4		25
Trichlorofluoromethane	0.266	0.266	ppbV	0		25
iso-Propyl Alcohol	2.52	2.55	ppbV	1		25
1,1-Dichloroethene	1.14	1.13	ppbV	1		25
Carbon disulfide	ND	ND	ppbV	NC		25
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ND	ppbV	NC		25
1,1-Dichloroethane	0.282	0.284	ppbV	1		25
2-Butanone	ND	ND	ppbV	NC		25
cis-1,2-Dichloroethene	0.651	0.669	ppbV	3		25
Chloroform	0.625	0.625	ppbV	0		25
1,1,1-Trichloroethane	2.33	2.34	ppbV	0		25
Carbon tetrachloride	0.064	0.064	ppbV	0		25
Trichloroethene	0.416	0.416	ppbV	0		25
4-Methyl-2-pentanone	ND	ND	ppbV	NC		25
Toluene	0.191	0.194	ppbV	2		25
Tetrachloroethene	ND	ND	ppbV	NC		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: I-SCHNEID
Project Number: 0121021

Lab Number: L1621168
Report Date: 07/15/16

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG913585-5 QC Sample: L1621095-02 Client ID: DUP Sample					
Ethylbenzene	ND	ND	ppbV	NC	25
p/m-Xylene	ND	ND	ppbV	NC	25
o-Xylene	ND	ND	ppbV	NC	25
1,2,4-Trimethylbenzene	ND	ND	ppbV	NC	25

Project Name: I-SCHNEID

Project Number: 0121021

Lab Number: L1621168

Report Date: 07/15/16

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L1621168-01	OA-01-20160705-01	0702	#16 AMB	06/30/16	224672		-	-	-	Pass	4.4	4.0	10
L1621168-01	OA-01-20160705-01	221	2.7L Can	06/30/16	224672	L1619299-01	Pass	-29.4	-11.3	-	-	-	-
L1621168-02	IA-01-20160705-01	0155	#16 AMB	06/30/16	224672		-	-	-	Pass	4.4	4.2	5
L1621168-02	IA-01-20160705-01	2197	2.7L Can	06/30/16	224672	L1619299-01	Pass	-29.7	-5.9	-	-	-	-
L1621168-03	IA-02-20160705-01	0387	#16 AMB	06/30/16	224672		-	-	-	Pass	4.5	4.0	12
L1621168-03	IA-02-20160705-01	196	2.7L Can	06/30/16	224672	L1619299-01	Pass	-29.7	-4.2	-	-	-	-
L1621168-04	IA-03-20160705-01	0264	#16 SV	06/30/16	224672		-	-	-	Pass	4.5	4.8	6
L1621168-04	IA-03-20160705-01	2015	2.7L Can	06/30/16	224672	L1619299-01	Pass	-29.7	-5.4	-	-	-	-
L1621168-05	IA-04-20160705-01	0952	#4 AMB	06/30/16	224672		-	-	-	Pass	4.5	4.5	0
L1621168-05	IA-04-20160705-01	506	2.7L Can	06/30/16	224672	L1619299-01	Pass	-29.3	-6.1	-	-	-	-
L1621168-06	IA-05-20160705-01	0236	#16 AMB	06/30/16	224672		-	-	-	Pass	4.4	5.2	17
L1621168-06	IA-05-20160705-01	508	2.7L Can	06/30/16	224672	L1619299-01	Pass	-29.7	-6.5	-	-	-	-
L1621168-07	DUP-01-20160705-01	0915	#4 amb	06/30/16	224672		-	-	-	Pass	4.5	4.9	9
L1621168-07	DUP-01-20160705-01	2203	2.7L Can	06/30/16	224672	L1619299-01	Pass	-29.7	-9.3	-	-	-	-
L1621168-08	UNUSED CAN#388	0017	#16 AMB	06/30/16	224672		-	-	-	Pass	4.5	4.2	7

Project Name: I-SCHNEID

Project Number: 0121021

Lab Number: L1621168

Report Date: 07/15/16

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L1621168-08	UNUSED CAN#388	388	2.7L Can	06/30/16	224672	L1619299-01	Pass	-29.7	-29.9	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1619299
Report Date: 07/15/16

Air Canister Certification Results

Lab ID: L1619299-01
Client ID: CAN 191B SHELF 8
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 06/23/16 20:15
Analyst: RY

Date Collected: 06/22/16 16:00
Date Received: 06/23/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1619299
Report Date: 07/15/16

Air Canister Certification Results

Lab ID: L1619299-01
Client ID: CAN 191B SHELF 8
Sample Location:

Date Collected: 06/22/16 16:00
Date Received: 06/23/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1619299
Report Date: 07/15/16

Air Canister Certification Results

Lab ID: L1619299-01
Client ID: CAN 191B SHELF 8
Sample Location:

Date Collected: 06/22/16 16:00
Date Received: 06/23/16
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1619299
Report Date: 07/15/16

Air Canister Certification Results

Lab ID: L1619299-01
Client ID: CAN 191B SHELF 8
Sample Location:

Date Collected: 06/22/16 16:00
Date Received: 06/23/16
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1619299
Report Date: 07/15/16

Air Canister Certification Results

Lab ID: L1619299-01
Client ID: CAN 191B SHELF 8
Sample Location:

Date Collected: 06/22/16 16:00
Date Received: 06/23/16
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	89		60-140
Bromochloromethane	92		60-140
chlorobenzene-d5	85		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1619299
Report Date: 07/15/16

Air Canister Certification Results

Lab ID: L1619299-01
Client ID: CAN 191B SHELF 8
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 06/23/16 20:15
Analyst: RY

Date Collected: 06/22/16 16:00
Date Received: 06/23/16
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1619299
Report Date: 07/15/16

Air Canister Certification Results

Lab ID: L1619299-01
Client ID: CAN 191B SHELF 8
Sample Location:
Date Collected: 06/22/16 16:00
Date Received: 06/23/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1619299
Report Date: 07/15/16

Air Canister Certification Results

Lab ID: L1619299-01
Client ID: CAN 191B SHELF 8
Sample Location:
Date Collected: 06/22/16 16:00
Date Received: 06/23/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	91		60-140
bromochloromethane	93		60-140
chlorobenzene-d5	89		60-140

Project Name: I-SCHNEID
Project Number: 0121021

Lab Number: L1621168
Report Date: 07/15/16

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information **Custody Seal**
Cooler
N/A Present/Intact

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1621168-01A	Canister - 2.7 Liter	N/A	N/A		Y	Absent	TO15-SIM(30)
L1621168-02A	Canister - 2.7 Liter	N/A	N/A		Y	Absent	TO15-SIM(30)
L1621168-03A	Canister - 2.7 Liter	N/A	N/A		Y	Absent	TO15-SIM(30)
L1621168-04A	Canister - 2.7 Liter	N/A	N/A		Y	Absent	TO15-SIM(30)
L1621168-05A	Canister - 2.7 Liter	N/A	N/A		Y	Absent	TO15-SIM(30)
L1621168-06A	Canister - 2.7 Liter	N/A	N/A		Y	Absent	TO15-SIM(30)
L1621168-07A	Canister - 2.7 Liter	N/A	N/A		Y	Absent	TO15-SIM(30)
L1621168-08A	Canister - 2.7 Liter	N/A	N/A		Y	Absent	CLEAN-FEE()

*Values in parentheses indicate holding time in days

Project Name:	I-SCHNEID	**Lab Number:**	L1621168
Project Number:	0121021	**Report Date:**	07/15/16

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the

Report Format: Data Usability Report

Project Name:	I-SCHNEID	**Lab Number:**	L1621168
Project Number:	0121021	**Report Date:**	07/15/16

Data Qualifiers

reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

REFERENCES

48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 524.2: 1,2-Dibromo-3-chloropropane, 1,2-Dibromoethane, m/p-xylene, o-xylene
EPA 624: 2-Butanone (MEK), 1,4-Dioxane, tert-Amylmethyl Ether, tert-Butyl Alcohol, m/p-xylene, o-xylene
EPA 625: Aniline, Benzoic Acid, Benzyl Alcohol, 4-Chloroaniline, 3-Methylphenol, 4-Methylphenol.
EPA 1010A: NPW: Ignitability
EPA 6010C: NPW: Strontium; SCM: Strontium
EPA 8151A: NPW: 2,4-DB, Dicamba, Dichloroprop, MCPA, MCPP; SCM: 2,4-DB, Dichloroprop, MCPA, MCPP
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene, Isopropanol; SCM: Iodomethane (methyl iodide), Methyl methacrylate (soil); 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Pentachloronitrobenzene, 1-Methylnaphthalene, Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Pentachloronitrobenzene, 1-Methylnaphthalene, Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 9010: NPW: Amenable Cyanide Distillation, Total Cyanide Distillation
EPA 9038: NPW: Sulfate
EPA 9050A: NPW: Specific Conductance
EPA 9056: NPW: Chloride, Nitrate, Sulfate
EPA 9065: NPW: Phenols
EPA 9251: NPW: Chloride
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
EPA 8270D: NPW: Biphenyl; SCM: Biphenyl, Caprolactam
EPA 8270D-SIM Isotope Dilution: SCM: 1,4-Dioxane
SM 2540D: TSS
SM2540G: SCM: Percent Solids
EPA 1631E: SCM: Mercury
EPA 7474: SCM: Mercury
EPA 8081B: NPW and SCM: Mirex, Hexachlorobenzene.
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA 8270-SIM: NPW and SCM: Alkylated PAHs.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene, n-Butylbenzene, n-Propylbenzene, sec-Butylbenzene, tert-Butylbenzene.
Biological Tissue Matrix: ***8270D-SIM; 3050B; 3051A; 7471B; 8081B; 8082A; 6020A:*** Lead***; 8270D:*** bis(2-ethylhexyl)phthalate, Butylbenzylphthalate, Diethyl phthalate, Dimethyl phthalate, Di-n-butyl phthalate, Di-n-octyl phthalate, Fluoranthene, Pentachlorophenol.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water
EPA 200.8: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7**: Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;
EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

Non-Potable Water
EPA 200.8: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;
EPA 200.7: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;
EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F,**
EPA 353.2: Nitrate-N**, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF**.

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

AIR ANALYSIS

PAGE 1 OF 1

CHAIN OF CUSTODY

320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 7/11/16

ALPHA Job #: L1621168

Client Information

Client: ERM
Address: 3200 Windy Hill Rd
Suite 1500W ATL GA 30339
Phone: 678-486-2700
Fax:
Email: Nic.Vrey@erm.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: I. Schneid
Project Location: ATL
Project #: 0121021
Project Manager: Nic Vrey
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX
☐ ADEx
Criteria Checker:
(Default based on Regulatory Criteria Indicated)
Other Formats:
☐ EMAIL (standard pdf report)
☐ Additional Deliverables:
Report to: (if different than Project Manager)

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	TO-15	TO-15 SIM	APH Subtract Non-petroleum HCs ☐	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
21168 .01	OA-01-20160705-01	7/5/16	0955	1845	-29.19	-10.18	AA	KS	2.7L	221	0702						
.02	IA-01-20160705-01		1000	1830	-29.53	-4.76		KS		2197	0155						
.03	IA-02-20160705-01		1005	1640	~~-29.23~~ -29.23	-3.86		KS		196	0387						
.04	IA-03-20160705-01		1010	1810	-29.28	-4.18		KS		2015	0264						
.05	IA-04-20160705-01		1015	1815	-28.81	-4.64		KS		506	0952						
.06	IA-05-20160705-01		1020	1840	-29.73	-5.36		KS		508	0236						
.07	Dup-01-20160705-01				-28.95	-7.84		KS		2203	0915						

*SAMPLE MATRIX CODES

AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Relinquished By:	Date/Time	Received By:	Date/Time:
FedEx	7/6/16 1100	FedEx	
		Kim C Bailey AAL	7/11/16 11:25

FORM NO: 301-02 Rev (25-Sep-15)

Draft Uniform Environmental Covenant

Appendix D

July 27, 2017
Project No. 0121021
Former I. Schneid Facility

After Recording Return to:

<Grantor Contact Address> CROSS-REFERENCE: Deed Book:
Page:

Environmental Covenant

This instrument is an Environmental Covenant executed pursuant to the Georgia Uniform Environmental Covenants Act, OCGA § 44-16-1, *et seq.* This Environmental Covenant subjects the Property identified below to the activity and/or use limitations specified in this document. The effective date of this Environmental Covenant shall be the date upon which the fully executed Environmental Covenant has been recorded in accordance with OCGA § 44-16-8(a).

Fee Owner of Property/Grantor: Fairmount Flats, LLC
1819 Peachtree Road, Suite 575
Atlanta, GA 30309

Grantee/Holder: Fairmount Flats, LLC
1819 Peachtree Road, Suite 575
Atlanta, GA 30309

Grantee/Entity with express power to enforce: State of Georgia
Department of Natural Resources
Environmental Protection Division
2 Martin Luther King Jr. Drive, SE
Suite 1456 East Tower
Atlanta, GA 30334

Parties with interest in the Property: None

Property:

The property subject to this Environmental Covenant is the former I. Schneid facility, located on 1429 Fairmont Avenue, NW in Atlanta, Fulton County, Georgia (hereinafter "Property"). This tract of land was conveyed on January 20, 2016 from English Asset Holding LLC to Fairmont Flats, LLC recorded in Deed Book 55793, Pages 326 and 331, Fulton County Records. The Property is located in Land Lot 188 of the 17th District of Fulton County, Georgia. The property includes 3.09 acres. A complete legal description of the Property is attached as Exhibit A and a map of the Property is attached as Exhibit B.

Tax Parcel Number(s):

17 018800020170 of Fulton County, Georgia

Name and Location of Administrative Records:

The corrective action at the Property that is the subject of this Environmental Covenant is described in the following document[s] (as same may be amended from time to time with written approval from EPD):

- First Annual Report on Effectiveness of Corrective Action, September 2006.
- Second Annual Report on Effectiveness of Corrective Action, October 2007.
- Third Annual Report on Effectiveness of Corrective Action, October 2008.
- Fourth Annual Report on Effectiveness of Corrective Action, February 2010.
- Fifth Annual Report on Effectiveness of Corrective Action, February 2011.
- Soil Corrective Action Completion and Certification Report, July 15, 2014.
- Final Compliance Status Report, July 2017.

These documents are available at the following locations in the files for HSI No. 10753:

Georgia Environmental Protection Division
Response and Remediation Program
2 MLK Jr. Drive, SE, Suite 1054 East Tower
Atlanta, GA 30334
M-F 8:00 AM to 4:30 PM excluding state holidays

Description of Contamination and Corrective Action:

Site investigation activities identified five areas where soils were not in compliance with the approved RRS for the Site. These areas were located in proximity to the solvent mixing room, floor drain, and sump. Contaminants in soil include volatile organic compounds, semi-volatile organic compounds, metals, pesticides and herbicides. These areas were remediated using a combination of heat-catalyzed persulfate, soil vapor extraction (SVE), and excavation/off-site disposal.

Ground water contamination by VOCs, SVOCs, and herbicides is also present. Ground water remediation has been conducted using air sparge/SVE. A small area of free-phase liquid product is present on top of the water table in proximity to the most significant area of soil excavation. This area is shown on the attached survey site drawing prepared by Metro Engineering & Surveying Company, Inc.

This Property has been listed on the state's hazardous site inventory and has been designated as needing corrective action due to the presence of hazardous wastes, hazardous constituents, or hazardous substances regulated under state law. Contact the property owner or the Georgia Environmental Protection Division for further information concerning this Property. This notice is provided in compliance with the Georgia Hazardous Site Response Act.

This Declaration of Covenant is made pursuant to the Georgia Uniform Environmental Covenants Act, O.C.G.A. § 44-16-1 *et seq*. by Fairmont Flats, LLC, its successors and assigns, I. S. Liquidation, LLC, and the State of Georgia, Department of Natural Resources, Environmental Protection Division (hereinafter "EPD"), its successors and assigns. This Environmental Covenant is required because a release of certain volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), and pesticides/herbicides occurred on the Property. Certain VOCs, SVOCs, and

pesticides/herbicides are "regulated substances" as defined under the Georgia Hazardous Site Response Act, O.C.G.A. § 12-8-90 *et seq.*, and the rules promulgated thereunder (hereinafter "HSRA" and "Rules", respectively). The Corrective Action consists of institutional controls (prohibiting the use of ground water for drinking water or for any other non-remedial purpose) to protect human health and the environment. Furthermore, ground disturbance in the area of the free-phase liquid product shall not be undertaken unless appropriate steps to protect worker health and safety are implemented.

Grantor, Fairmont Flats, LLC (hereinafter "Fairmont Flats"), hereby binds Grantor, its successors and assigns to the activity and use restriction(s) for the Property identified herein and grants such other rights under this Environmental Covenant in favor of Fairmont Flats and EPD. EPD shall have full right of enforcement of the rights conveyed under this Environmental Covenant pursuant to HSRA, O.C.G.A. § 12-8-90 *et seq.*, and the rules promulgated thereunder. Failure to timely enforce compliance with this Environmental Covenant or the use or activity limitations contained herein by any person shall not bar subsequent enforcement by such person and shall not be deemed a waiver of the person's right to take action to enforce any non-compliance. Nothing in this Environmental Covenant shall restrict EPD from exercising any authority under applicable law.

Fairmont Flats makes the following declaration as to limitations, restrictions, and uses to which the Property may be put and specifies that such declarations shall constitute covenants to run with the land, pursuant to O.C.G.A. § 44-16-5(a); is perpetual, unless modified or terminated pursuant to the terms of this Covenant pursuant to O.C.G.A. § 44-16-9 and 10; and shall be binding on all parties and all persons claiming under them, including all current and future owners of any portion of or interest in the Property (hereinafter "Owner"). Should a transfer or sale of the Property occur before such time as this Environmental Covenant has been amended or revoked then said Environmental Covenant shall be binding on the transferee(s) or purchaser(s).

The Environmental Covenant shall inure to the benefit of Fairmont Flats, EPD, and their respective successors and assigns and shall be enforceable by the Director or his agents or assigns, Fairmont Flats or its successors and assigns, and other party(ies) as provided for in O.C.G.A. § 44-16-11 in a court of competent jurisdiction.

Activity and/or Use Limitation(s)

1. Registry. Pursuant to O.C.G.A. § 44-16-12, this Environmental Covenant and any amendment or termination thereof, may be contained in EPD's registry for environmental covenants.

2. Notice. The Owner of the Property must give thirty (30) day advance written notice to EPD of the Owner's intent to convey any interest in the Property. No conveyance of title, easement, lease, or other interest in the Property shall be consummated by the Owner without adequate and complete provision for continued monitoring, operation, and maintenance of the Corrective Action. The Owner of the Property must also give thirty (30) day advance written notice to EPD of the Owner's intent to ~~change the use of the Property, apply for building permit(s), or~~ propose any site work that would affect the Property within the area of free-phase liquid product shown on Figure 1.

3. Notice of Limitation in Future Conveyances. Each instrument hereafter conveying an interest in the Property subject to this Environmental Covenant shall contain a notice of the activity and use limitations set forth in this Environmental Covenant and shall provide the recorded location of the Environmental Covenant.

4. Monitoring. None required.

5. Periodic Reporting. Annually, by no later than January 31 following the effective date of this Environmental Covenant, the Owner shall submit to EPD an Annual Certification Report stating whether or not the activity and use limitations in this Environmental Covenant are being abided by.

6. Activity and Use Limitation(s). Ground disturbance (i.e., excavation, trenching, etc.) to depths greater than 10 feet below ground surface in the area of the property where free phase-liquid product is present on top of the water table shall be prohibited unless appropriate steps are taken to protect the health and safety of the workers involved in the disturbance.

7. Ground Water Limitation. The use or extraction of ground water beneath the Property for drinking water or for any other non-remedial purposes shall be prohibited.

8. Permanent Markers. Not required.

9. Right of Access. In addition to any rights already possessed by EPD and/or Fairmont Flats, the Owner shall allow authorized representatives of EPD and/or Fairmont Flats the right to enter the Property at reasonable times for the purpose of determining compliance with this Environmental Covenant.

10. Recording of Environmental Covenant and Proof of Notification. Within thirty (30) days after the date of the Director's signature, the Owner shall file this Environmental Covenant with the Recorders of Deeds for each County in which the Property is located, and send a file stamped copy of this Environmental Covenant to EPD within thirty (30) days of recording. Within that time period, the Owner shall also send a file-stamped copy to each of the following: (1) Fairmont Flats, (2) each person holding a recorded interest in the Property subject to the covenant, (3) each person in possession of the real property subject to the covenant, (4) each municipality, county, consolidated government, or other unit of local government in which real property subject to the covenant is located, and (5) each owner in fee simple whose property abuts the property subject to the Environmental Covenant.

11. Termination or Modification. The Environmental Covenant shall remain in full force and effect in accordance with O.C.G.A. § 44-16-1 *et seq*., unless and until the Director determines that the Property is in compliance with the Type 1, 2, 3, or 4 Risk Reduction Standards, as defined in Georgia Rules of Hazardous Site Response (Rules) Section 391-3-19-.07, whereupon the Environmental Covenant may be amended or revoked in accordance with Section 391-3-19-08(7) of the Rules and O.C.G.A. § 44-16-1 *et seq*.

12. Severability. If any provision of this Environmental Covenant is found to be unenforceable in any respect, the validity, legality, and enforceability of the remaining provisions shall not in any way be affected or impaired.

13. No EPD Interest in Property Created. This Environmental Covenant does not in any way create any interest by EPD in the Property that is subject to the Environmental Covenant. Furthermore, the act of approving this Environmental Covenant does not in any way create any interest by EPD in the Property in accordance with O.C.G.A. § 44-16-3(b).

Representations and Warranties.

Grantor hereby represents and warrants to the other signatories hereto:

a) That the Grantor has the power and authority to enter into this Environmental Covenant, to grant the rights and interests herein provided and to carry out all obligations hereunder;
b) That the Grantor is the sole owner of the Property and holds fee simple title which is free, clear and unencumbered;

c) That the Grantor has identified all other parties that hold any interest (e.g., encumbrance) in the Property and notified such parties of the Grantor's intention to enter into this Environmental Covenant;
d) That this Environmental Covenant will not materially violate, contravene, or constitute a material default under any other agreement, document or instrument to which Grantor is a party, by which Grantor may be bound or affected;
e) That the Grantor has served each of the people or entities referenced in Activity 10 above with an identical copy of this Environmental Covenant in accordance with O.C.G.A. § 44-16-4(d).
f) That this Environmental Covenant will not materially violate or contravene any zoning law or other law regulating use of the Property; and
g) That this Environmental Covenant does not authorize a use of the Property that is otherwise prohibited by a recorded instrument that has priority over the Environmental Covenant.

Notices.

Any document or communication required to be sent pursuant to the terms of this Environmental Covenant shall be sent to the following persons:

Georgia Environmental Protection Division
Branch Chief
Land Protection Branch
2 Martin Luther King Jr. Drive SE
Suite 1054 East Tower
Atlanta, GA 30334

Fairmount Flats, LLC
1819 Peachtree Road, Suite 575
Atlanta, GA 30309
Attn: Michael Thomas

Grantor has caused this Environmental Covenant to be executed pursuant to The Georgia Uniform Environmental Covenants Act, on the _____ day of _____, 20___.

Signed, sealed, and delivered in the presence of:

_____
Unofficial Witness (*Signature*)

_____
Unofficial Witness Name (*Print*)

_____
Unofficial Witness Address (*Print*)

_____
Notary Public (*Signature*)

For the Grantor:

_____
Name of Grantor (*Print*)

_____ (Seal)
Grantor's Authorized Representative (*Signature*)

_____
Authorized Representative Name (*Print*)

_____
Title of Authorized Representative (*Print*)

Dated:_____

My Commission Expires:_____

(NOTARY SEAL)

Signed, sealed, and delivered in the presence of:

For the State of Georgia
Environmental Protection Division:

_____ (Seal)

Unofficial Witness *(Signature)*

(Signature)

_____

Unofficial Witness Name (*Print*)

Richard E. Dunn
Director

_____

Dated:_____

_____

Unofficial Witness Address (*Print*)

(NOTARY SEAL)

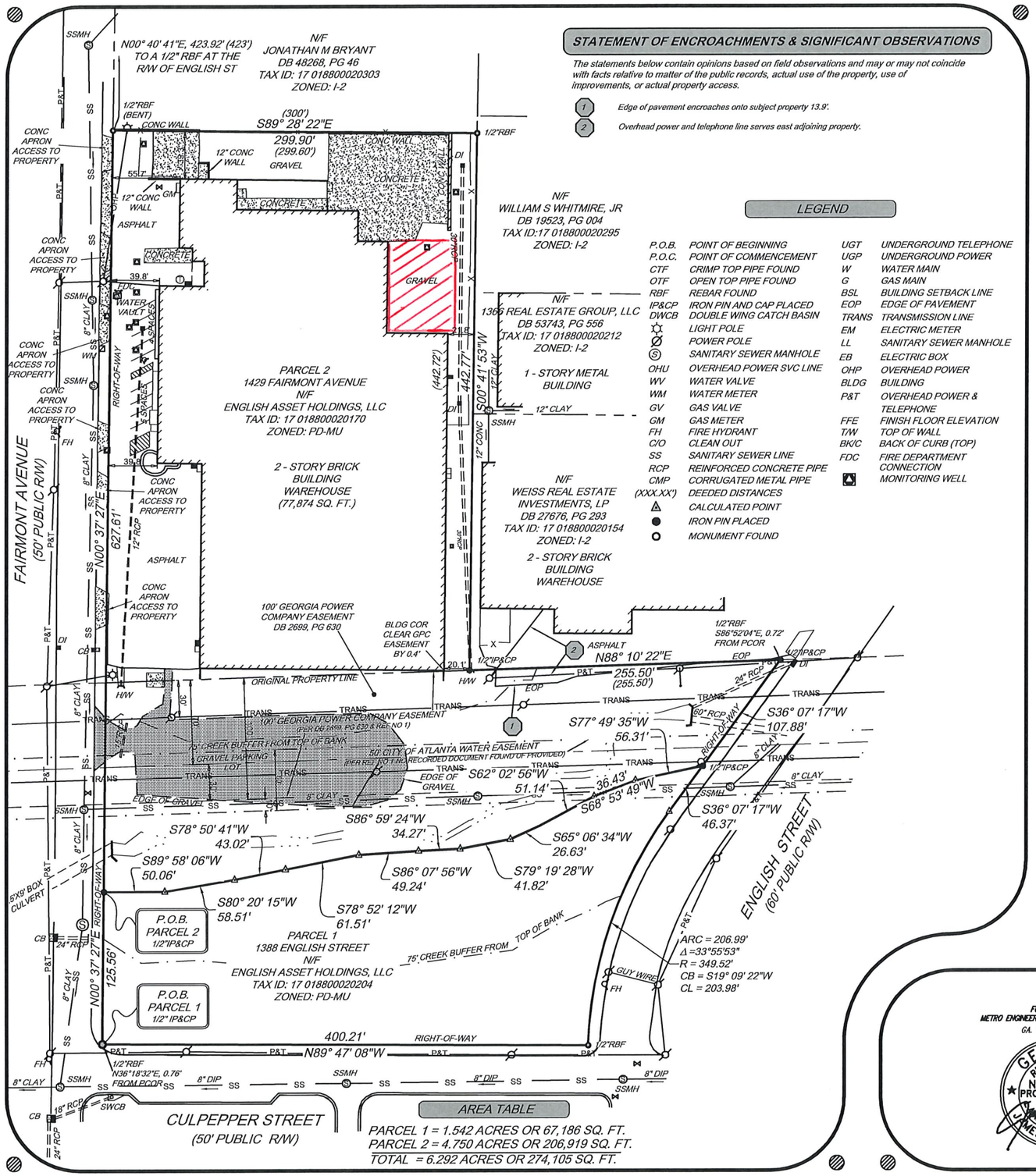
_____

Notary Public *(Signature)*

My Commission Expires:_____

<SIGNATURE BLOCK FOR HOLDER OR OTHER APPLICABLE PARTIES>

Exhibit A
Legal Description



STATEMENT OF ENCROACHMENTS & SIGNIFICANT OBSERVATIONS

The statements below contain opinions based on field observations and may or may not coincide with facts relative to matter of the public records, actual use of the property, use of improvements, or actual property access.

1. Edge of pavement encroaches onto subject property 13.9'.
2. Overhead power and telephone line serves east adjoining property.

LEGEND

P.O.B.	POINT OF BEGINNING	UGT	UNDERGROUND TELEPHONE
P.O.C.	POINT OF COMMENCEMENT	UGP	UNDERGROUND POWER
CTF	CRIMP TOP PIPE FOUND	W	WATER MAIN
OTF	OPEN TOP PIPE FOUND	G	GAS MAIN
RBF	REBAR FOUND	BSL	BUILDING SETBACK LINE
IP&CP	IRON PIN AND CAP PLACED	EOP	EDGE OF PAVEMENT
DWCB	DOUBLE WING CATCH BASIN	TRANS	TRANSMISSION LINE
☼	LIGHT POLE	EM	ELECTRIC METER
Ø	POWER POLE	LL	SANITARY SEWER MANHOLE
Ⓢ	SANITARY SEWER MANHOLE	EB	ELECTRIC BOX
OHU	OVERHEAD POWER SVC LINE	OHP	OVERHEAD POWER
WV	WATER VALVE	BLDG	BUILDING
WM	WATER METER	P&T	OVERHEAD POWER & TELEPHONE
GV	GAS VALVE	FFE	FINISH FLOOR ELEVATION
GM	GAS METER	T/W	TOP OF WALL
FH	FIRE HYDRANT	BK/C	BACK OF CURB (TOP)
C/O	CLEAN OUT	FDC	FIRE DEPARTMENT CONNECTION
SS	SANITARY SEWER LINE	◘	MONITORING WELL
RCP	REINFORCED CONCRETE PIPE		
CMP	CORRUGATED METAL PIPE		
(XXX.XX')	DEEDED DISTANCES		
△	CALCULATED POINT		
●	IRON PIN PLACED		
O	MONUMENT FOUND		

AREA TABLE

PARCEL 1 = 1.542 ACRES OR 67,186 SQ. FT.
PARCEL 2 = 4.750 ACRES OR 206,919 SQ. FT.
TOTAL = 6.292 ACRES OR 274,105 SQ. FT.

Free Product Area

GRID NORTH
GA WEST-NAD83

60 0 60 120 180
SCALE IN FEET

RE-PLAT

OF
TAX PARCELS 17 018800020204
AND
17 018800020170

PROPERTY INFORMATION
LAND LOTS: 188
DISTRICT: 17TH
SECTION: NA
COUNTY: FULTON
STATE: GEORGIA
CITY: ATLANTA

DRAWING INFORMATION	REVISIONS
DATE: 8-11-16	
SCALE: 1"=60'	
DWN: JCS	
CHCK: JRG	
JOB No.: 13767	
FILE: 13767-SUB-0	

CERTIFICATION

THIS PLAT IS BASED ON A TRUE AND CORRECT SURVEY MADE ON THE GROUND UNDER MY DIRECT SUPERVISION IN CONFORMITY WITH THE TECHNICAL STANDARDS FOR PROPERTY SURVEYS IN GEORGIA AS SET FORTH IN CHAPTER 180-7 OF THE RULES OF THE GEORGIA BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS AND AS SET FORTH IN THE GEORGIA PLAT ACT O.C.G.A. 15-6-67.

JAMES R. GREEN
GA. R.L.S. No. 2543

8-11-16
DATE

FOR THE FIRM
METRO ENGINEERING & SURVEYING CO., INC.
GA. L.S.F. #00538

GEORGIA REGISTERED No. 2543 PROFESSIONAL LAND SURVEYOR JAMES R. GREEN

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