

Voluntary Compliance Status Report (VCSR)

**Submitted under Georgia's Voluntary
Remediation Program (VRP) Act**

**Former Dickies Industrial Services
College Park, Georgia
HSI Site No. 10127**

March 30, 2011

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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 following tax parcels are in compliance with Type 1 Risk Reduction Standards for soil:

Tax Parcel ID No. 130036LL1349
Tax Parcel ID No. 130036LL1414

The following parcels are in compliance with the Type 3/Type 4 Risk Reduction Standards for soil:

Tax Parcel ID No. 130036LL1463
Tax Parcel ID No. 130036LL1356

These tax parcels are shown in the Tax Parcel Map located in Appendix A. The property owners' contact information is provided in Appendix B.

Certified By: Joan B. Sasine Date: 3/30/11
Joan B. Sasine
Attorney for Dickies Industrial Services, Inc.

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. 10127 was prepared by me and appropriate qualified subordinates working under my direction.

A summary of the hours spent by the Professional Engineer's firm is provided in Appendix C, in order to comply with Voluntary Remediation Plan Act.

Shanna Thompson

Shanna Thompson, P.E.
Georgia License No. PE031306

3/30/2011
Date



1.0 INTRODUCTION

1.1 OVERVIEW

Environmental Resources Management (ERM) has prepared this Voluntary Compliance Status Report (VCSR) on behalf of Dickies Industrial Services, Inc (“DISI”). The VCSR is prepared for the former DISI facility (the “facility” or “the Site”), which is currently listed on the Georgia Hazardous Site Inventory (HSI #10127) as a result of previous releases of hazardous substances. The Site is located at 2411 Sullivan Road in College Park, Georgia (see [Figure 1](#)). Figure 2, which is a plan view of the facility, shows the building and the former location of the dry cleaning operations. The building is currently utilized by DISI as warehouse/distribution space. No dry cleaning activities currently take place at the facility.

Four (4) parcels comprise the Site and are in the VRP due to the presence of regulated substances in soil. Three (3) of the parcels are located on Sullivan Road in College Park, a suburb of Atlanta, Georgia (see [Figure 1](#)) and are owned by DISI. They include approximately 2.25 acres. A single story building having approximately 40,000 square feet of floor space occupies this area of the facility. A dry cleaning operation was formerly located at the northern end of the building. The fourth parcel is on the west, east and north of the DISI parcels and contains a 60-foot wide ingress and egress easement used by DISI. The fourth parcel is owned by Coca-Cola Refreshments USA, Inc. (“CCR”). CCR has given Dickies express permission to enter the CCR property to perform corrective action pursuant to a December 1, 2010 Access Agreement between CCR and DISI. The original VRP application included only two of these parcels, and the other two parcels were added to the VRP via correspondence from Joan Sasine of Bryan Cave to EPD dated February 3, 2011.

Other properties near the facility that exhibit concentrations of regulated substances in ground water include Puja Partners, LLC, Sears Roebuck & Company, Blount Construction Company, and a CSX Railroad right-of-way located on CCR’s property.

1.2 *CHEMICALS OF INTEREST*

Tetrachloroethene (PCE) and its degradation products are the chemicals of interest at the DISI facility. This determination is based upon the facility's history as an industrial dry-cleaning site and sampling and analysis work that dates as far back as 1987. Regulated constituents found in soil include the following: tetrachloroethene, trichloroethene, cis-1,2-dichloroethene and trans-1,2-dichloroethene.

Regulated constituents found in ground water include the following: tetrachloroethene, trichloroethene, cis-1,2-dichloroethene, trans-1,2-dichloroethene 1,1-dichloroethene and vinyl chloride. Beginning in 2009 the analysis suite also included 1,4-dioxane, per a request from the EPD. 1,4-dioxane has not been detected in soil or ground water samples. At one point, chloroform was detected in ground water samples; however this was determined to not be attributable to releases from the DISI Site.

Over the course of correspondence between consultants and the EPD, a set of RRS was approved to guide remediation efforts at this Site. A copy of pertinent information and a table of the approved RRS are provided in [Appendix D](#).

1.3 *HSI SITE STATUS*

This Site was placed on Georgia's Hazardous Sites Inventory (HSI) in 1994 because of the Reportable Quantities Screening Method (RQSM) On-Site Exposure Pathway score exceeded the threshold of 20. This Site did not score high enough on the RQSM calculations to be listed on the HSI for the Ground Water Pathway.

This Site was accepted into Georgia's Voluntary Remediation Program on November 15, 2010.

1.4 *PURPOSE OF THIS DOCUMENT*

The purpose of this document is to provide final resolution of soil contamination and to certify compliance with the applicable RRS within the framework of Georgia's Voluntary Remediation Program. Excavation activities were performed to remove, transport and dispose of the soils that contained constituents above the applicable RRS. This document will provide the summary of activities conducted to demonstrate compliance with the applicable RRS.

1.5

ORGANIZATION

This Voluntary Compliance Status Report presents a discussion of the regulatory status and Certification of Compliance with Risk Reduction Standards for HSI Site 10127, via the Voluntary Remediation Program Act, as follows:

- Section 2 presents a discussion of the Site location and potential sources of regulated compounds;
- Section 3 presents a summary of previous investigations and the contaminants of concern identified at the Site;
- Section 4 presents a series of soil delineation maps;
- Section 5 presents a summary of ground water conditions.
- Section 6 describes the corrective action activities that have already been performed at this site, including soil vapor extraction, soil excavation, and ground water treatment via air sparging, chemical oxidation, and enhanced passive remediation;
- Section 7 presents the results of soil sampling performed to document compliance with the Site specific RRS in soil.
- Section 8 presents a discussion of RRS and Site compliance.
- Section 9 describes the responsible party that has been performing investigation since 1987 and remediation since 1999.
- Section 10 describes the public notice provided by DISI.
- Section 11 describes the continuing actions that will be in place pending approval of this VCSR.

2.0 *SITE BACKGROUND & CONCEPTUAL SITE MODEL*

2.1 *LOCATION AND DESCRIPTION*

The location of the Site is provided on [Figure 1](#). A tax parcel location map showing the four parcels in the VRP is included in [Appendix A](#). The Site is located at 2411 Sullivan Road in College Park, Fulton County, Georgia. The area near the Site includes commercial and industrial properties.

2.2 *POTENTIAL SOURCES OF REGULATED MATERIALS*

The facility building was constructed in 1969 and operated as an industrial laundry from 1970 to 1984. Operations at the plant from 1970 to 1984 included the use of PCE and associated distillation equipment for recovery and recycling of this material. Residual PCE and degradation products (i.e., trichloroethylene (TCE) and 1,2-dichloroethylene (1,2-DCE)) in subsurface soils (the “source area”) were the result of unknown PCE releases on-Site. Descriptions of select equipment and processes are included below. The location of dry cleaning process activities is shown in [Figure 2](#).

Pretreatment of wastewater generated by the on-Site laundering process consisted of settling out solids, grease and other materials in an underground wastewater settling tank (a.k.a. sewer tank). The pretreated wastewater was monitored and discharged into the public sewer in accordance with a permit from the city of College Park. The approximate location of the sewer tank is shown on [Figure 2](#). This sewer tank was excavated and removed during the 2010 soil excavation activities.

From approximately 1980 to 1984, a 500-gallon above ground tank was located indoors and used to collect still bottoms and spent dry cleaning fluids. Contents of the tank were removed on an as-needed basis by reclaiming contractors. The approximate location of this tank is shown on [Figure 2](#).

Empty 55-gallon drums, which previously contained dry-cleaning related fluids and laundry detergents, were temporarily staged adjacent to the northwest corner of the building for transport off-Site. The approximate location of the drum storage was just north of the former sewer tank.

2.3

SITE DESCRIPTION

This section of the VCSR provides a description of the properties which are a part of the Site, including the address and location of such property, its legal description, and the property owner name, address and telephone number, as required by Section 391-3-19-.06(3)(b)(5) of the Rules. As defined by Section 391-3-19-02(2), the Site means that portion of the owner's contiguous property and any other owner's property affected by a release exceeding a reportable quantity.

The following properties are enrolled in the VRP:

- Dickies Industrial Services, Inc. (Tax Parcels 130036LL1463, 130036LL1456, and 130036LL1349,
- Coca-Cola Refreshments USA, Inc. (Tax Parcel 130036LL1414

A map of the tax parcels is provided in [Appendix A](#). The property owners' names, addresses and telephone numbers are included in [Appendix B](#).

2.4

RISK REDUCTION STANDARDS

A summary of cleanup standards to be used for this Site in the Voluntary Remediation Program is provided in [Appendix D](#).

The soil cleanup standards that will be used for this Site will be the RRS currently used in the HSRA program. The RRS that are guiding corrective action for soils were approved in EPD correspondence dated October 12, 2005. For the compounds of interest at this Site the surface and subsurface RRS were calculated to be equal, so only a single soil RRS is listed in [Appendix D](#).

Ground water cleanup standards are not included for this site, since ground water cleanup is not required per Section 12-8-107(g)(2) of the VRP Act, which states:

“The participant shall not be required to perform corrective action or to certify compliance for ground water if the voluntary remediation property was listed on the inventory as a result of a release to soil exceeding a reportable quantity for soil but was not listed on the inventory as a result of a release to ground water exceeding a reportable quantity, and

if the participant further demonstrates to the director at the time of enrollment that a release exceeding a reportable quantity for ground water does not exist at the voluntary remediation property; and the ground water protection requirements for soils shall be based on protection of the established point of exposure for ground water as provided under this part... ”

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 regulated chemical from a release at the facility. The building at the facility is currently occupied and is used as warehouse/distribution space. The area surrounding the facility is used for commercial activities. The following sections discuss the details of the Conceptual Site Model, as organized by the exposure pathway: soil exposure, ground water exposure, surface water exposure, and vapor exposure.

Although the release details are not known, the soil investigation data show that the regulated compounds were most likely released from former dry cleaning operations on the north end of the building.

2.5.1 *Assessment of The Soil Exposure Pathway*

The soil pathway is a pathway that could potentially be completed by industrial workers at the facility; however, investigation and remediation activities have brought the Site soils to levels that do not pose unacceptable risk. Soil remediation has been performed such that there are no longer soils that exceed the Type 3/4 RRS. The Type 3/4 RRS are calculated in a manner that considers 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*

Because the facility and surrounding area are served by a municipal water supply system, ground water is not being used for human consumption. Therefore, the human exposure to contaminated ground water is not currently an exposure pathway. A map of the potential ground water

receptors within three miles of the Site is provided in Figure 3. This Receptor Map shows that no ground water receptors were located in the downgradient direction within three miles of the Site. This fact is important when considering this Site relative to Section 107(g)(2) of the VRP Act.

2.5.3 *Assessment Of The Surface Water Exposure Pathway*

Surface water cleanup standards were not calculated because the surface water pathway was determined to be incomplete, due to the fact that:

- (1) Soils formerly above RRS have been remediated.
- (2) There are not surface water bodies within the vicinity of the soil remediation effort.

The facility and adjacent properties are not shown as wetlands on the National Wetlands Inventory maps prepared by the U.S. Fish and Wildlife Service. With the exception of some wet-weather ditches and other man-made depressions, no wetland-like areas are present on the Site. No perennial streams or other surface water bodies have been observed on or near the facility. A map showing the location of the nearest surface water feature is provided as Figure 4.

2.5.4 *Assessment of the Vapor Intrusion Exposure Pathway*

Potential human receptor groups in the area include facility workers located on the properties that exhibit concentrations of volatile organic compounds (VOCs) in ground water samples.

2.5.4.1 *Initial Vapor Intrusion Assessment*

The vapor intrusion assessment for this Site is based on OSWER guidance (EPA, 2002), which provides a three-tiered approach to determine if there is a completed vapor intrusion pathway that causes unacceptable risk levels.

TIER 1 (Primary Screening) has three basic questions designed to screen out sites at which vapor intrusion pathway does not ordinarily need further consideration. For the subject Site:

- Chemicals of sufficient volatility and toxicity are known to be present in the subsurface (e.g. PCE and it's degradation products) and

- Buildings are located near the subsurface contaminants (e.g. DISI facility).

Since the above information does not indicate an incomplete vapor intrusion pathway, the assessment is carried forward to TIER 2.

TIER 2 (Secondary Screening) has two multipart questions which are structured to use existing data to assess the vapor intrusion pathway. For the subject Site:

- Indoor air data are not currently available,
- There is confirmed contamination (i.e. source of vapors) in the unsaturated zone, and
- measured ground water concentrations for select compounds exceed ground water target levels at a risk of 10⁻⁵ (Georgia's acceptable risk level).

Furthermore, ground water concentrations of select compounds exceed target concentrations by more than a factor of 50. Therefore, based on screening presented in the TIER 1 and TIER 2 assessments, Site-specific evaluations were conducted at the subject site.

TIER 3 calls for a site-specific evaluation of the vapor intrusion pathway beyond secondary screening using (1) collection of soil gas samples and/or (2) computer modeling. During 2010, both of these site specific evaluation methods were used to assess the level of risk posed to human receptors by vapor intrusion from the ground water plume.

2.5.4.2

Soil Gas Sampling

Subslab soil gas samples were collected from three locations beneath the DISI facility. Subslab soil gas probes were collected from immediately below the facility's concrete slab. Soil gas probes were installed beneath the slab by installing a 1" diameter boring in the slab. The soil gas probes were constructed of a 1.5" ceramic tip connected to 0.125" OD Nylaflo® tubing and completed with a gas-tight Swagelok nut and cap. After placing the tip and tubing into the boring, clean silica sand was used to fill the annular space around the tip to a height of 0.5" above the tip. Following emplacement of the silica sand filter pack, approximately 1" of hydrated granular bentonite was placed in the annular space around the probe. The vapor probe was completed to the surface with hydrated hydraulic cement. Vapor probe design and locations are described in Appendix E.

After allowing the hydraulic cement to set (~15 minutes), the vapor probe was enclosed with a shroud that was pressurized with helium. The vapor probe was connected to a gas-tight Nylaflow tube which exited the shroud and connected to a peristaltic pump. The peristaltic pump was switched on and allowed to pump >3 well volumes from the vapor probe. After purging at least 3 well volumes, a helium detector was used to confirm the absence of helium in the effluent vapor stream. In order to confirm that the shroud was filled with helium, the helium detector was connected to a valved port open to the inside of the shroud. Any vapor probes that allowed helium to enter the sample stream were replaced with new equipment.

Vapor samples were collected using 200 mL/min flow regulators in 6 liter batch certified-clean summa canisters. The samples were analyzed by AirToxics Laboratory using EPA method TO-15 for tetrachloroethene, associated daughter products, and 1,4-dioxane. The laboratory reports from this soil vapor sampling event are provided in Appendix F. Results from the three vapor samples, shown in the table below, along with site-specific lithologic information were used as inputs to the Johnson and Ettinger model to further evaluate the vapor intrusion pathway.

Table - Subslab vapor data summary

Compound	V-1 (ppbv)	V-2 (ppbv)	V-3 (ppbv)	V-3 dup (ppbv)
Vinyl Chloride	<0.72	<0.72	<0.78	<0.78
cis-1,2-Dichloroethene	<0.72	<0.72	<0.78	<0.78
Trichloroethene	<0.72	1.5	1.6	1.5
Tetrachloroethene	3.6	6.0	35	33
trans-1,2-Dichloroethene	<0.72	<0.73	<0.78	<0.78
1,4-Dioxane	<2.9	<2.9	<3.1	<3.1

Bold concentrations are greater than the "Target Shallow Soil Gas Concentration Corresponding to Target Indoor Air Concentration Where the Soil Gas to Indoor Air Attenuation Factor=0.1" values given in OSWER, 2002 at the 10-5 risk level.

2.5.4.3 Vapor Intrusion Modeling

Since select compound concentrations were greater than screening levels given in OSWER¹, 2002 (i.e. the bold data in the table above), the Johnson and Ettinger² model was used to determine concentrations of regulated

¹ EPA, 2002. OSWER Draft Guidance for Evaluating the Vapor Intrusion to Indoor Air Pathway from Ground water and Soils Subsurface Vapor Intrusion Guidance. November 2002. EPA530-D-02-004.

² Johnson, P.C., and R.A. Ettinger. 1991. Heuristic model for predicting the intrusion rate of contaminant vapors in buildings. Environ. Sci. Technol. 25: 1445-1452.

compounds representing an unacceptable risk. The Johnson and Ettinger (1991) model is a one-dimensional analytical solution to convective and diffusive vapor transport into indoor spaces.

Modeling to Assess Vapor Intrusion Risk input parameters used in the tetrachloroethene (PCE) and trichloroethene (TCE) soil gas screening models and output from the models are shown in [Appendix G](#). Input parameters given in [Appendix G](#) represent either default parameters suggested by the model or Site-specific parameters (e.g. LF, LS, TS, and lithology). **PCE and TCE were the only compounds detected above laboratory detection limits in the vapor samples, thus they are the only compounds carried forward in the vapor intrusion assessment.**

Boring logs for borings installed in the vicinity of the vapor probes indicate the subsurface lithology to be sandy clay or a clayey sand. Since a clayey sand would likely have a higher permeability and therefore represent a “worst-case” scenario, the soil classification system (SCS) classification of sandy loam (SL) was used to represent subsurface lithology.

Results from the Johnson and Ettinger (1991) model indicate that the incremental risk from vapor intrusion to indoor air for carcinogenic effects at the DISI facility is 1.9×10^{-7} , which is orders of magnitude less than the 1×10^{-5} risk level allowed. Furthermore, the hazard quotient from vapor intrusion to indoor air for noncarcinogenic effects is 1.2×10^{-4} .

Similarly, results from the Johnson and Ettinger (1991) model for TCE indicate that the incremental risk from vapor intrusion to indoor air for carcinogenic effects at the DISI facility is 1.3×10^{-7} , which is orders of magnitude less than the 1×10^{-5} risk level allowed. Furthermore, the hazard quotient from vapor intrusion to indoor air for noncarcinogenic effects from TCE is 6.7×10^{-5} .

2.5.4.4 *Vapor Intrusion Conclusions*

Based on results presented above, measured soil gas concentrations do not represent unacceptable risks due to the vapor intrusion pathway in this industrial setting.

3.0

SUMMARY OF SITE INVESTIGATION

This section of the VCSR provides a summary of previous Site investigations. The previous Site investigations were performed in a step-wise approach that occurred over the past 24 years. In order to convey the results of multiple years of data collection, the discussion has been arranged to follow the timeline of the major submittals to the EPD regarding investigation and remediation activities at this HSI Site. This timeline is as follows:

- Investigation Prior to the Compliance Status Report (1987 - 2001)
- Investigation Performed During Corrective Action (2001 - 2010)
- Soil Removal Report (Dec 2010)

The Site investigation and delineation results from each period are summarized below.

3.1

INVESTIGATION PRIOR TO THE INITIAL COMPLIANCE STATUS REPORT (1987-2001)

The original CSR effort was for the purpose of delineating the extent of contamination, as described in a series of CSR submittals to the EPD from 1998 through August 15, 2000. The CSR was approved by the EPD on February 14, 2001. The original CSR compiled data collected by the previous consultants, along with data collected by ERM, in order to show site delineation. A summary of the investigations conducted by the various consultants is provided in the list below.

- Atlanta Testing & Engineering, Inc. (AT&E) – Beginning 1987
 - Performed an assessment of the former Eastern Foods property (now CCR)
 - Installed one monitoring well
- Hill-Fister Engineers, Inc. - Beginning 1987
 - Installed three monitoring wells
 - Collected two soil samples

- Camp Dresser & McKee (CDM) - Beginning 1990
 - Performed a Phase I Environmental Assessment
 - Performed a Phase II Environmental Assessment
 - Installed seven soil borings
 - Installed eight monitor wells (MW-1 through MW-8)
Collected soil gas samples and ground water samples using soil probe techniques
 - Collected and analyzed numerous soil samples and ground water samples for VOCs, and
 - Measured water levels and conducted hydraulic conductivity tests to evaluate ground water occurrence and movement.

- Law Associates, Inc. (Law) - Beginning 1991
 - Performed a Phase II Assessment at the Mini Storage property west of the facility (this parcel is currently owned by Puja Properties).
 - Installed three monitoring wells

- RMT - Beginning 1993
 - Installed 10 ground water monitoring wells (MW-3A, MW-9, MW-9A, MW-10, MW-10A, MW-11, MW-12, MW-13, MW-13A, and MW-14)
 - Collected and analyzed ground water samples,
 - Measured water levels and conducted hydraulic conductivity tests to evaluate ground water occurrence and movement, and
 - Surveyed monitoring wells.

- Atlanta Environmental Management - Beginning 1998
 - Installed eight borings by using direct push technology (DPT),
 - Collected numerous soil and ground water samples from DPT borings,
 - Collected ground water samples from existing monitoring wells, and
 - Analyzed soil and ground water samples for VOCs

- ERM - Beginning 1998
 - Installed 30 soil borings using direct push technology (DPT),
 - Sampled ground water at 17 locations both on and off-Site using DPT methods,
 - Installed ground water monitoring wells and
 - Conducted ground water elevation monitoring.

The results of these efforts were included in the 1998 – 2000 CSR and CSR Addenda.

3.2 ***INVESTIGATION PERFORMED DURING CORRECTIVE ACTION (2001-2010)***

A Corrective Action Plan (CAP) was prepared and submitted to the EPD on June 13, 2001 and approved on June 28, 2002. A brief CAP Addendum was submitted on April 19, 2004 and approved by the EPD on June 18, 2004. A CAP Addendum was also submitted to EPD in 2009. EPD did not officially respond to this addendum, because the Site entered the VRP prior to the CAP Addendum review by the EPD.

3.2.1 ***Soil Sampling to Monitor Corrective Action Progress***

Soil sampling was performed during the construction of the remediation system in 2003 and then annually thereafter as a provision of the CAP approval. During this time soils from both inside and outside the building were sampled and analyzed for VOCs. Since these locations were used to assess progress in VOC remediation, many locations were re-sampled on an annual basis. Since soil borings cannot technically be collected from the exact location on multiple locations, each year's data was collected from within two feet of a permanent identifying marker. Details on sampling methods and laboratory reports were included with reports submitted to the EPD between 2003 and 2010. Results of final soil samples from each location are included in Table 1.

3.2.2 ***Ground Water Sampling to Monitor Corrective Action***

Each Annual Report included ground water monitoring data from the well network that was established as of 2002. The Annual Reports also included copies of the field parameter measurements for the sampling events that were performed using low flow sampling methods.

3.3 ***INVESTIGATION PERFORMED SINCE THE 2010 VRP SUBMITTAL TO THE EPD (2010-2011)***

3.3.1 ***Soil Investigation***

In order to fully delineate the contaminants of concern in soil to the west of the source areas, three additional boring locations were installed on the western CCR property boundary (SB-A, SB-B, and SB-C). Sampling depths were selected to provide information to fill in data gaps needed to complete delineation. The boring logs and laboratory reports from this soil investigation are provided [Appendix H](#). Data are summarized in Table 1 and shown on the soil delineation figures. These borings provided sufficient information to complete the delineation within the CCR property and without having to access the Puja property for soil sampling.

3.3.2 ***Ground Water Investigation***

One additional monitoring well, MW-39, was installed in 2011. This well was installed in response to EPD's November 15, 2010 correspondence. This well was screened in the most likely depth to find regulated substances based on the results for tetrachloroethene at nearby wells (MW-13, MW-13A, and MW-32). EPD requested that this well be installed to better understand the southwest edge of the regulated substances in ground water. The boring log and well construction diagram are provided in [Appendix I](#). This well was successful in providing delineation in the southwest direction, as discussed in the ground water summary in Section 5 of this report.

The figures referenced in this section provide a visual representation of the soil investigations that have been performed in a step-wise approach over the past two decades. In order to convey the results of multiple years of data collection, the soils sample locations on the following set of figures are coded with a red symbol and text if they exceed the delineation concentrations:

- Figure 5 - Soil Delineation Map: Tetrachloroethene in Soil (1990-2010)
- Figure 6 - Soil Delineation Map: Trichloroethene in Soil (1990-2010)
- Figure 7 - Soil Delineation Map: 1,1-Dichloroethene in Soil (1990-2010)
- Figure 8 - Soil Delineation Map: Cis-1,2-Dichloroethene in Soil (1990-2010)
- Figure 9 - Soil Delineation Map: Trans-1,2-Dichloroethene in Soil (1990-2010)
- Figure 10 - Soil Delineation Map: Vinyl Chloride in Soil (1990-2010)
- Figure 11 - Soil Delineation Map: 1,4-Dioxane in Soil (1990-2010)

A soil delineation boundary is shown on these figures in order to show that delineation in all directions has been achieved and that only four tax parcels had to be investigated in order to find those boundaries (three DISI parcels and one parcel belonging to CCR).

This section provides a discussion of (1) the general approach used to evaluate ground water contamination, (2) the analytical parameters selected and rationale for selection, (3) sampling locations, (4) sampling and analytical procedures, (5) statistical procedures used to evaluate data, (6) procedures used to establish background concentrations, and (7) the results of the assessment activities as required by Section 391-3-19-.06(3)(b)(2) of the Rules. Ground water investigations were completed by ERM between 1998 and 2010, which includes monitoring prior to and during remediation activities. During this work, the following tasks were completed:

- Geologic logs, construction records, and historical ground water elevation data were reviewed to determine/clarify the direction of ground water movement at the facility and surrounding properties.
- Ground water elevation monitoring was conducted at selected wells to determine/clarify the direction of ground water movement.
- Ground water monitoring wells were installed to monitor ground water quality and elevations in the saprolite aquifer. The locations of these wells are included on [Figure 12](#).

AREAS INVESTIGATED

The ground water investigation network was setup up prior to the 2003 remediation construction effort. These wells were monitored quarterly for two years, and most wells have been monitored annually throughout the seven year ground water remediation period. The well construction details have been submitted with previous CSR/CAP documents, and a summary of monitoring well construction information is provided in Table 2.

In addition to the monitoring well network used throughout remediation, one additional well was installed in 2011. This well, MW-39, was successful in providing delineation in the southwest direction, since the

analytical results were below detection limits. The analytical data report is provided in [Appendix J](#).

5.2 ***GENERAL APPROACH***

The general approach to ground water monitoring has been annual monitoring for the purpose of monitoring the plume size and plume stability, and remediation progress. In addition, some monitoring wells, air sparge wells, injection wells, and passive soil vapor extraction wells were sampled intermittently for the sake of monitoring remediation progress in specific areas of ground water remediation activity. Results of the ground water monitoring activities have been reported to the EPD on an annual basis in the form of Annual Progress Reports. These data were also used over the course of the seven-year remediation period to adapt remediation systems to address the higher concentration areas of the ground water plume.

5.3 ***ANALYTICAL PARAMETERS SELECTED AND RATIONALE FOR SELECTION***

The ground water quality data indicate that PCE and its associated degradation products are the predominant VOCs present in the saprolite aquifer at the facility and neighboring properties.

5.4 ***METHODS USED TO CHARACTERIZE GEOLOGY AND HYDROGEOLOGY***

5.4.1 ***Subsurface Geology***

Hollow-stem-auger drilling, rock coring, and DPT methods were employed during the ground water investigations. Table 2 presents a summary of monitoring well construction details. Boring logs for well installations have been submitted to the EPD throughout the investigation and remediation process. According to boring logs prepared during investigation over the past 24 years, the facility is underlain by saprolite of varying thickness, then hard granite gneiss and a mica schist.

5.4.2 ***Ground Water Gradients, Flow Rates, and Flow Direction***

Ground water gradients and flow directions at the facility were determined from potentiometric surface maps, such as the one created with the October 2010 water level monitoring data ([Figure 13](#)). The water level measurements and potentiometric surface calculations are shown in

[Table 3](#). The general direction of ground water flow is to the east, with a small component of flow to the northeast and to the north.

5.4.3 *Hydraulic Conductivity And Other Hydrogeologic Characteristics*

The general direction of ground water flow is to the east/slight northeast, at an estimated rate of 39 to 67 feet per year. As documented in the 2001 CAP, horizontal hydraulic gradients for the facility and nearby properties estimated from the water table contours range from 0.002 to 0.008. Based on these data and an assumed porosity of 0.2 and gradient of 0.005, the ground water flow at the site is estimated to be in the range of 39 to 67 feet per year.

5.5 *GROUND WATER SAMPLING LOCATIONS AND DEPTHS*

Ground water sampling locations are shown on [Figure 12](#), and the well construction details for the monitoring wells are provided in [Table 2](#).

5.5.1 *Saprolite Aquifer Monitoring Well Installation & Construction Methods*

Hollow-stem-auger drilling methods were utilized to advance boreholes for the monitoring wells. During the drilling, soil samples were collected and logged. Subsequent to completing a borehole to the desired depth, the well casing and screen were placed inside the hollow-stem-augers. The casing and screen are 2-inch diameter, schedule 40 PVC having threaded joints. The well screen length varies as described in [Table 2](#).

Subsequent to placing the well screen and casing inside the hollow-stem-augers, a filter pack of washed silica sand was placed in the well annulus from the bottom of the borehole to approximately 2-to-4 feet above the top of the screen. The hollow-stem-augers were slowly withdrawn from the borehole as the sand was placed. A layer of bentonite pellets was placed on top of the sand pack. The remainder of the annular space was filled to ground surface with a cement-bentonite grout mixture. Each well was completed at the ground surface by installing either a flush-mount, bolt-down cover or a stand-up protective metal casing. A concrete pad was poured around each well and the each well's cap was equipped with a lock.

5.5.2 *Bedrock Aquifer Well Installation And Construction Methods*

Hollow-stem-auger drilling methods were used to advance a borehole to the point of auger refusal, approximately 82 feet below grade. At this depth, temporary steel casing was set and rock coring activities were

initiated using a nominal 4-inch diameter core barrel. Initially, 10 feet of rock were cored to ensure that competent bedrock had been encountered. At this point, rock-coring activities were stopped and the borehole was reamed to nominal diameter of 10 inches to an approximate depth of 92 feet below grade. Six-inch diameter, schedule 40 PVC casing was then set in the borehole and grouted into place. The annular space around the casing was filled with a 95 percent cement-5 percent bentonite grout. The grout was placed using the tremie method and allowed to cure for 24 hours.

Once the grout had cured, the PVC casing was flushed with potable water. Rock coring activities were resumed. A qualified geologist examined each rock core. In addition to describing the rock type, the cores were examined for evidence of secondary porosity, such as fractures or structural features and oxidation zones.

The bedrock well at the facility was completed as an open hole well to a depth of 132 feet below grade. As such, no additional casing or screen were installed. The well was completed by installing a bolt-down, flush-mount cover and a concrete pad at the ground surface.

5.5.3 *Well Development Procedures*

The saprolite aquifer wells were developed using bailing and pumping methods. In the case of bailing, disposable polyethylene bailers equipped with new nylon rope were used. Other wells were developed by pneumatic pump. During the development, the temperature, specific conductivity, pH, and turbidity of the purged water was monitored.

The bedrock well was developed by over pumping with a 2-inch diameter electric submersible pump. During development, the temperature, specific conductance, pH, and turbidity of the development water were monitored.

5.6 *GROUND WATER SAMPLING PROCEDURES*

5.6.1 *Monitoring Well Ground Water Elevations And Measurements*

Before ground water samples were collected, the depth to ground water and total depth were measured for each monitoring well. These measurements were collected using the following procedure.

1. The lock and locking cap covering the well were removed.

2. Sufficient time was allowed for the water level in each well to stabilize.
3. A clean electronic water level probe was lowered to the water surface.
4. The distance from the reference point to the water surface was recorded to the nearest 0.01 foot.
5. The probe was lowered to the bottom of the monitoring well.
6. The distance from the reference point to the bottom of the well was recorded to the nearest 0.01 foot.
7. The probe was removed from the well and cleaned.

Results from the most recent potentiometric surface mapping event, October 2010, are provided in [Table 3](#) and [Figure 13](#).

5.6.2 *Sample Handling and Preservation Techniques*

5.6.2.1 *Sample Identification*

Ground water samples were identified by the monitoring location from which they were collected. For example, the ground water sample collected from MW-20 was identified as MW-20.

5.6.2.2 *Sample Preservation and Holding Times*

The samples were acidified in the field using hydrochloric acid to a pH of less than 2. Subsequent to being collected, they were placed in ice-filled coolers. They were delivered to a NELAC accredited laboratory by ERM personnel or by courier. The samples were analyzed within 14 days of their collection.

5.6.2.3 *Equipment Decontamination Procedures*

In between each sampling interval and location where a re-useable discrete interval ground water sampler was used, the units were thoroughly decontaminated.

5.6.2.4 *Sample Chain of Custody Procedures*

The field team member who collected the samples retained sample custody in the field. Chain of custody forms were completed by this individual prior to surrendering possession of the samples. The chain of custody records were maintained to document the delivery of the ground water samples to the subcontracted laboratory.

5.6.2.5 *Trip Blanks*

Trip blanks were typically included with VOC sample deliveries to the laboratory.

5.7 *ANALYTICAL PROCEDURES*

5.7.1 *Field Analytical Techniques*

Temperature, specific conductance, pH, and turbidity were measured in the field as the ground water samples were collected. These measurements for the most recent annual ground water sampling event (October 2010) are included in [Appendix K](#).

5.7.2 *Laboratory Analytical Techniques*

The ground water samples and associated trip blanks were analyzed for VOCs by method 8260B. Analyses were conducted by ASI and AES laboratories, which are both located in the metro Atlanta area.

5.8 *METHODS USED TO DETERMINE BACKGROUND GROUND WATER QUALITY*

The VOCs monitored at the facility typically do not occur naturally in ground water. Therefore, no efforts to establish background concentrations of these constituents in the ground water at the facility were undertaken.

5.9 *RESULTS OF GROUND WATER EVALUATION*

5.9.1 *PHYSIOGRAPHY AND DRAINAGE*

The facility is located in the Greenville Slope District of the Piedmont Physiographic Province (Clark and Zia, 1976). This area is characterized by rolling topography that decreases gradually in elevation from 1,000 feet in the northeast to 600 feet in the southwest. Relief varies from 150 to 200

feet in the east to 100 to 150 feet in the west. All streams in this district eventually flow to the Gulf of Mexico.

Ground surface elevations at the facility range from approximately 1,020 feet to 1,000 feet. The ground surface slopes generally from southwest to northeast, in the direction of an unnamed tributary of the Flint River. Ditches at the facility convey surface water drainage generally to the north.

5.9.2 *Geology and Hydrogeology*

5.9.2.1 *Regional*

Soils in the Piedmont Physiographic Province are typically silt and clay-rich materials that formed from the in-place weathering of the underlying crystalline bedrock. The specific character of soils in the Piedmont is dependent on the nature of the rock from which they weathered. The percentage of sand-sized particles comprising the soils, however, typically tends to increase with depth. As such, while silt and clay-sized materials are predominant at shallow depths, sand-sized materials are predominant at greater depths. Because of its greater permeability, the deeper, more coarse-grained zone can serve as a preferential pathway for contaminant migration.

Regionally, the area near the facility is underlain by a complex of late Precambrian to early Paleozoic rocks referred to as the Atlanta Group (McConnell and Abrams, 1984). More specifically, the facility is underlain by the Tar Creek Member of the Clarkston Formation. The Clarkston Formation is composed of sillimanite-garnet-quartz-plagioclase-biotite-muscovite schist interlayered with hornblende-plagioclase amphibolite.

The occurrence and movement of ground water in the area of the facility is within two separate but interconnected water-bearing zones. These include a shallow water-bearing zone located within the soils, and a deeper water-bearing zone located in the bedrock. The shallow water-bearing zone is referred to as the saprolite aquifer. The deeper water-bearing zone is referred to as the bedrock aquifer.

Ground water in the saprolite aquifer occurs in the interstitial pore spaces between individual grains comprising the soil and is typically under water table (i.e., unconfined) conditions. The direction of ground water movement in the saprolite aquifer typically approximates the land surface topography, with the direction of movement being from upland areas to nearby drainage features (i.e., creeks, rivers, etc.). As a result, ground

water flow systems within the saprolite aquifer typically consist of numerous small ground water basins corresponding to local drainage patterns (Cressler, et. al., 1983). Based on a review of ground surface topography, the direction of ground water movement in the saprolite aquifer at the facility is expected to be towards the northeast. The unnamed tributary of the Flint River is located approximately 1,500 feet northeast of the facility is expected to be the ground water discharge point for the saprolite aquifer.

Ground water in the bedrock aquifer is located in the fractures and other structural features of the rock. Ground water movement within this zone is controlled by the distribution and degree of interconnection of rock discontinuities. Consequently, the direction of ground water movement within the bedrock is more difficult to predict. Discharge points for ground water in the bedrock aquifer, however, will be associated with the major streams in the area. These include the Flint River located approximately 3.2 miles east of the facility. Recharge of the bedrock aquifer typically occurs as the result of the downward movement of ground water through the overlying soils.

5.9.2.2 *Local*

Geologic logs for wells and soil borings installed during previous investigations at the facility were submitted with previous CSR and CAP documents. A geologic cross-section along the ground water flow path was prepared. The location of the cross section is along the ground water flow path, as shown in [Figures 12 and 13](#).

Bedrock has been observed at the facility at depths ranging from 27 feet below grade at MW-4 near the southern edge of the DISI facility, to 82 feet below grade at well MW-18D located near the center of the facility. Rock underlying the facility consists of pegmatite, biotite-muscovite schist and biotite - gneiss with garnet. Well MW-18D was installed into the bedrock aquifer by ERM. It is completed to a depth of 132 feet below grade. That portion of the well from 92 to 132 feet is an open hole within the bedrock. Fractures are present throughout this open hole interval. They are more concentrated, however, from 92 to 97 feet below grade. The ground water quality sample collected from MW-18D is representative of the full open hole interval of the well.

Ground water elevation monitoring conducted by ERM indicates that the water table at the facility is located at depths ranging from approximately 8 to 25 feet below grade. Locations associated with the greatest depths to ground water are associated with topographically higher areas in the

southern portion of the facility. In most other areas of the facility, the water table is located less than 10 feet below grade.

5.10 *GROUND WATER QUALITY*

A summary of the ground water samples results is presented in Table 4, and the full laboratory data reports for this event are provided in [Appendix L](#). The sampling locations associated with these samples are shown on [Figure 12](#). The following series of ground water figures shows the status of the compounds historically detected at this site, as well as the degradation products of the released compounds.

- Figure 14 - Tetrachloroethene in Ground Water
- Figure 15 - Trichloroethene in Ground Water
- Figure 16 - 1,1-dichloroethene in Ground Water
- Figure 17 - Cis-1,2-dichloroethene in Ground Water
- Figure 18 - Trans-1,2-dichloroethene in Ground Water
- Figure 19 - Vinyl Chloride in Ground Water
- Figure 20 - 1,4-Dioxane in Ground Water
- Figure 21 - Cross Section I-I' with October 2010 Ground Water Data

As expected, the highest concentrations of these VOCs are present in proximity to the location of the former sewer tank and former outdoor drum storage area, which were located to the northwest of the DISI building.

6.0

SUMMARY OF CORRECTIVE ACTION ACTIVITIES

A Corrective Action Plan (CAP) was prepared and submitted to the EPD on June 13, 2001 and approved on June 28, 2002. A brief CAP Addendum was submitted on April 19, 2004 and approved by the EPD on June 18, 2004. A CAP Addendum was also submitted to EPD in 2009. EPD did not officially respond to this addendum, because the Site entered the VRP prior to the CAP Addendum review by the EPD.

Corrective Action commenced at this facility when a soil vapor extraction (SVE) system was installed in the source area to treat soil under the building footprint. Ground water remediation in the source area on the DISI property began on May 15, 2003 when an air sparging (AS) system and a chemical oxidation system went on line. In September 2004, a system of injection wells was installed to deliver chemicals for enhancing natural attenuation of VOCs. This system of wells was installed in the dilute, downgradient area of the ground water plume.

6.1

SOIL CORRECTIVE ACTION VIA SOIL VAPOR EXTRACTION ('99-'09)

Soil remediation was performed using soil vapor extraction (SVE) from 1999 - 2009. The active SVE system included a network of 21 soil vapor extraction wells that were installed in the unsaturated zone under the warehouse floor in 1999 and seven new active SVE wells that were installed in 2008 to address the soil in areas beneath the warehouse and to the northwest of the warehouse.

Soil sampling performed between 2003 and 2007 showed recalcitrant areas that were not being treated to low enough levels using the SVE system. Soil sampling was conducted in May 2009 for analysis of VOCs in order to better delineate the effectiveness of operations at reducing the soil areas that remain above RRS. A majority of the soil samples were below RRS, but a few recalcitrant areas were located. These results have guided the recommendation for selective soil excavation that was proposed in the 2009 Corrective Action Plan Addendum.

The SVE system was removed prior to the 2010 soil excavation activities, since the soil excavation was designed to bring soils into compliance, thus negating the need for further soil vapor extraction.

6.2 *SOIL EXCAVATION (2010)*

Excavation design was presented in the April 2010 Voluntary Remediation Plan submitted to the EPD. Excavation was designed to remove the areas that exceeded the applicable RRS, based on additional sampling events performed in 2009 and 2010. The soil excavation design figure is provided in [Figure 22](#). Soil excavation was completed and soil confirmation sampling results show that further remediation is not needed to meet the Type 3/4 RRS, as discussed in detail in Section 7 of this report.

6.3 *GROUND WATER CORRECTIVE ACTION (2003 - 2010)*

Ground water corrective action has been performed, as described in the Annual Reports on Corrective Action Progress that have been submitted to the EPD in 2004, 2005, 2006, 2007, 2008, and 2009. A combination of remedial technologies was used to address concentrations of tetrachloroethene and its degradation products that exceeded the risk reduction standards (RRS).

An air sparge (AS) system, passive soil vapor extraction system (SVE), and in-situ chemical oxidation system (ISCO) began operations on May 15, 2003. These systems are located within the DISI property boundary. The AS and ISCO systems were operational and discussed in annual reports to the EPD between 2003 and 2009.

An enhanced natural attenuation (a.k.a. enhanced passive remediation) system was installed in September 2004 to address VOC concentrations in the downgradient, dilute portions of the ground water plume beyond the DISI property boundary. This system of injection wells is located on the CCR property. The location, construction, and performance were monitored and assessed in reports submitted to the EPD between 2004 and 2009.

7.0 *EVALUATION OF POST-REMEDATION SOIL CONDITIONS*

7.1 *PURPOSE OF SOIL EXCAVATION AND CONFIRMATION SAMPLING*

Following the removal of soils as shown in the design drawing ([Figure 22](#)) soil samples were collected from the base and sidewalls of each excavation to confirm that:

- soil exceeding RRS for PCE and its degradation products was removed and
- compliance with RRS was achieved.

Detailed information about the sampling methods and results were presented in the December 2010 Soil Removal Report, as well as copies of the laboratory data reports and soil disposal manifests. Soil laboratory analytical results are summarized in [Table 1](#).

7.2 *SOIL RISK REDUCTION STANDARDS*

The soil cleanup standards that will be used for this site will be the risk RRS currently used in the HSRA program. The RRS that are guiding corrective action for soils were approved in EPD correspondence dated October 12, 2005. For the compounds of interest at this site the surface and subsurface standards were calculated to be equal, so only a single soil RRS is listed in [Appendix D](#).

7.3 *SAMPLING AND ANALYTICAL PROCEDURES*

7.3.1 *Sampling Methods*

Soil samples were collected from the base and sidewalls of each excavation using a stainless steel sampling spoon. Samples collected below a depth of 4-feet bgs were collected from the excavator bucket because entering excavations of depths greater than 4-feet requires that a confined space entry permit be prepared per ERM's health and safety policies. All sampling equipment was decontaminated prior to use at different locations in accordance with specifications outlined in the FSAP.

7.3.2 *Sample Handling and Preservation Techniques*

Following collection, soil samples were labeled with a unique sample I.D., date and time of analyses, sampler's initials and analyses requested. Samples were then placed into a cooler and maintained in a secure location pending transport to the analytical laboratory.

7.3.3 *Chain-Of-Custody Procedures*

Chain-of-Custody documentation was employed throughout the sampling event. Upon completion of sample collection, the sample I.D., date and time of collection, sampler's initials, analyses requested and turnaround time requested were logged on a chain-of-custody form. The form was kept with the sample team leader until the samples were relinquished to the laboratory. Upon relinquishment, the sample team leader and receiver of the samples signed the chain-of-custody form and the sample team leader kept one copy of the form.

7.3.4 *Laboratory Analytical Techniques*

Excavation confirmation samples were analyzed via EPA Method 8260 on a 24-hour turnaround time basis. Analytical results are summarized in [Table 1](#) and analytical reports were provided with the December 2010 Soil Removal Report.

7.4 **COMPLIANCE WITH RISK REDUCTION STANDARDS**

Final confirmation sample locations are presented in [Figures 23 to 29](#). Confirmation samples that did not pass RRS criterion are not shown on the figures because the soil associated with failed samples has been excavated. However, these samples are included in the soil data summary table. Confirmation sampling for each area is described below.

A series of maps was created to show the locations and analytical data from the soil samples collected from the base and sidewalls of each excavation area. The excavation confirmation sample locations and results are shown in plan view on [Figures 23–29](#). [Figures 23–29](#) show the analytical data in plan view for tetrachloroethene, trichloroethene, 1,1-diochloroethene, cis-1,2-diochloroethene, trans1,2-diochloroethene, vinyl chloride, and 1,4-dioxane, respectively.

A cross-section location map is shown on [Figure 30](#), and vertical cross-sections of the excavation areas and sampling results are shown on [Figures 31-37](#). [Figures 31-37](#) show the analytical data in cross-section view for tetrachloroethene, trichloroethene, 1,1-diochloroethene, cis-1,2-diochloroethene, trans-1,2-diochloroethene, vinyl chloride, and 1,4-dioxane, respectively.

The excavation areas were described in full detail in the December 2010 Soil Removal Report, and they are summarized below:

- Soil in Area A was excavated to a depth of 9 feet below the concrete surface, which extended approximately 1 foot into the ground water table. The planned excavation area was expanded to the south and east based on confirmation sampling results. The final surface area of this excavation was 21 ft x 25 ft.
- Soil in Area B was excavated to a depth of 4 feet below the grassy surface north of the building. The planned excavation area was expanded based on confirmation sampling results as follows: 2 feet to the north and 2 feet to the east. The final surface area of this excavation was 17 ft x 22 ft.
- Soil in Area C was excavated to a depth of 6 feet below the grassy surface north of the building. The planned excavation area was expanded based on confirmation sampling results as follows: 2 feet to the north and 2 feet to the east. The final surface area of this excavation was 7 ft x 12 ft.
- Soil in Area D was excavated to a depth of 2 feet below the concrete floor of the warehouse building. The planned excavation area was expanded based on confirmation sampling results as follows: 10 feet to the west, 4 feet to the south, and 1 foot to the east. The final surface area of this area is irregular, but is 21 ft x 14 ft at its largest dimensions, as shown in [Figure 22](#).
- Soil in Area E was excavated to a depth of 4 feet below the concrete warehouse floor. Area E was split into three smaller sections for the purpose of collecting confirmation samples. Each of the three section began with a surface area of 25' by 35'. The three sections of Area E are:
 - Area EN, which is the northern third of Area E. Soil in Area EN was excavated to a depth of 4 feet below the concrete

floor of the warehouse building. The final surface area of this excavation was the same as the design surface area, 25 ft x 35 ft.

- Area EM, which is the middle third of Area E. Soil in Area EM was excavated to a depth of 4 feet below the concrete floor of the warehouse building. The planned excavation area was expanded based on confirmation sampling results by 1 foot in depth and also by 4 feet on the east wall. The final surface area of this excavation was 29 ft x 35 ft x five feet deep., and
- Area ES, which is the southern third of Area E. Soil in Area ES was excavated to a depth of 4 feet below the concrete floor of the warehouse building. The planned excavation area was expanded based on confirmation sampling results as follows: 8 feet to the west, 6 feet to the south, and 3 feet to the east. The final surface area of this area is irregular, but is 46 ft x 31 ft at its largest dimensions, as shown in [Figure 22](#).
- Soil in Area F was excavated to depth 6 feet below the concrete floor of the warehouse. The excavation area is shown in plan view on [Figure 22](#). Area F was a deeper excavation spot that was located within a larger, shallower excavation area (Area E). Thus, Area F was actually a 2-foot deep excavation from 4 ft bgs to 6 ft bgs. The final surface area of this excavation was the same as the design surface area, 10 ft x 20 ft.
- Area G was excavated to a depth of 4 feet below the concrete floor of the warehouse. The excavation area is shown in plan view on [Figure 22](#). The final surface area of this excavation was the same as the design surface area, 10 ft x 10 ft.

Excavation confirmation samples from the sidewalls and the base achieved results below RRS, as shown in [Figures 23 – 37](#) and in the analytical data summary provided in [Table 1](#).

8.0 *RISK REDUCTION STANDARDS AND SITE COMPLIANCE*

This section presents a summary of the RRS compliance status for HSI Site #10127.

8.1 *SOILS*

A summary of the soil samples, including the post-excavation confirmation samples collected in June 2010, are presented in Table 1. Also included in Table 1 are the respective RRS.

Based on a review of data presented in Sections 3, 4, and 5 of this document, it is determined that the four (4) Tax Parcels in the VRP are in compliance with the applicable RRS for soils. Specifically,

- Two (2) Tax Parcels in the VRP (130036LL1463 and 130036LL1356) are in compliance with the Type 3/4 RRS.
- Two (2) Parcels in the VRP (130036LL1349 and Tax Parcel 130036LL1414) are in compliance with the Type 1/2 RRS for soil.

8.2 *GROUND WATER*

Neither corrective action nor certification of compliance for ground water is required at this site pursuant to O.C.G.A. 12-8-107(g)(2). The site was listed on the HSI as a result of a release to soil exceeding a reportable quantity but was not listed on the inventory as a result of a release to ground water exceeding a reportable quantity. A release exceeding a reportable quantity for ground water also did not exist at the time the site was enrolled in the VRP. In addition, the establishment of the soil RRS took into account the ground water protection requirements. The ground water at the site has already been monitored for in excess of five (5) years. In addition, the soil vapor sampling conducted from soils over the most concentrated portion of the ground water plume, as discussed in Section 4, did not exceed established risk levels.

9.0

RESPONSIBLE PARTIES

This section of the CSR provides, as required by Section 391-3-19-.06(3)(b)(6) of the Rules, the name, address and telephone number of any other person who may be a responsible party for the Site, and a description of the type and amount of regulated substances such party may have contributed to a release. The party responsible for the release is Dickies Industrial Services, Inc., the owner and former operator of the facility.

10.0

PUBLIC NOTICE

As required by the Georgia Rules for the Voluntary Remediation Program, a Public Notice will be published in the Fulton County Daily Report and the Atlanta Journal Constitution indicating that the public may submit comments to EPD on the VCSR within thirty (30) days. A notice of the VCSR availability for review will also be sent to Zachary Williams, Fulton County Manager and Jack P. Longino, Mayor of College Park.

In addition, a copy of the VCSR will be sent to the following adjacent and nearby property owners:

- 1) Coca Cola Refreshments USA, Inc.,
- 2) Puja Partners, LLC,
- 3) Sears Roebuck & Company, and
- 4) Blount Construction Company, Inc.

**11.0 CONTINUING ACTIONS TO MAINTAIN COMPLIANCE WITH
TYPE 3/4 RISK REDUCTION STANDARDS**

To assure continued compliance with the Type 3/4 Risk Reduction Standards for soil, the owner of the DISI property will implement a Plan to Maintain Compliance, including but not limited to submittal of an annual written report and certification to EPD. The Plan and draft Certification are attached as [Appendix M](#).

Tables

Table 1
Soil Analytical Data
Former Dickies Industrial Services, Inc.
HSI Site No. 10127
ug/kg

Name of this location on the Soil Delineation Maps	Date of Sample	Depth of Sample	Name of Organization that Collected Sample	Number of times this location has been sampled	Sample ID	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride	trans-1,2-Dichloroethene	1,4-Dioxane	1,1-Dichloroethene
						RRS = 877 ug/kg	RRS = 500 ug/kg	RRS = 18,900 ug/kg	RRS = 200 ug/kg	Not Calculated - Chemicals Not Detected Above Soil NC		
CP-SB-4	Sep-90	4-6	CDM	1 of 1	CP-BH-4-03	170	< 60	NA	NA	NA	NA	NA
CP-SB-5	Sep-90	6-8	CDM	1 of 1	CP-BH-5-04	<60	< 60	NA	NA	NA	NA	NA
CP-SB-7	Sep-90	6-8	CDM	1 of 1	CP-BH-7-04	150	< 60	NA	NA	NA	NA	NA
CP-MW-1	Oct-90	5-7	CDM	1 of 1	CP-MW1	470	310	NA	<130	<60	NA	<60
RMT-MW10-A	Aug-92	3.5-5	RMT	1 of 1	RMT-MW10A	54.8	NA	<5.0	<10.0	<5.0	NA	<5.0
	Aug-92	8.5-10	RMT		RMT-MW10A	27.7	NA	<5.0	<10.0	<5.0	NA	<5.0
	Aug-92	10-11.5	RMT		RMT-MW10A	53.2	NA	<5.0	<10.0	<5.0	NA	<5.0
RMT-MW-3A	Sep-92	3.5-5	RMT	1 of 1	RMT-MW3A	<200	<200	<200 ^A	NA	NA	NA	NA
	Sep-92	5-6.5	RMT		RMT-MW3A	<200	<200	<200 ^A	NA	NA	NA	NA
	Sep-92	6.5-8	RMT		RMT-MW3A	<200	<200	<200 ^A	NA	NA	NA	NA
RMT-SB-1	Sep-92	3.5-5	RMT	1 of 1	RMT-SB1	<200	<200	<200 ^A	NA	NA	NA	NA
	Sep-92	6.5-7.5	RMT		RMT-SB1	<200	<200	<200 ^A	NA	NA	NA	NA
RMT-SB-2	Sep-92	2-3.5	RMT	1 of 1	RMT-SB2	<200	<200	200 ^A	NA	NA	NA	NA
	Sep-92	3.5-5	RMT		RMT-SB2	<200	<200	340 ^A	NA	NA	NA	NA
	Sep-92	5-6.5	RMT		RMT-SB2	<200	<200	250 ^A	NA	NA	NA	NA
RMT-SB-4	Sep-92	5-6.5	RMT	1 of 1	RMT-SB4	8	<2.5	5.1 ^A	<1.2	NA	NA	<1.2
RMT-SB-6	Sep-92	3.5-5	RMT	1 of 1	RMT-SB6	<200	NA	490 ^A	NA	NA	NA	NA
	Sep-92	6.5-8	RMT		RMT-SB6	430	340	4800 ^A	<130	NA	NA	<130
RMT-SB-10	Sep-92	2-3.5	RMT	1 of 1	RMT-SB10	230	<200	<200 ^A	NA	NA	NA	NA
	Sep-92	3.5-5	RMT		RMT-SB10	220	<200	<200 ^A	NA	NA	NA	NA
	Sep-92	5-6.5	RMT		RMT-SB10	<200	<200	<200 ^A	NA	NA	NA	NA
RMT-SB-12	Sep-92	8.5-10	RMT	1 of 1	RMT-SB12	<2.3	<2.3	<2.3 ^A	<1.2	NA	NA	<1.2
	Sep-92	13.5-15	RMT		RMT-SB12	<200	<200	<200 ^A	NA	NA	NA	NA
	Sep-92	18.5-20	RMT		RMT-SB12	<200	<200	<200 ^A	NA	NA	NA	NA
AEM-GP2	Apr-98	1-2	AEM	1 of 1	AEM-GP-2/1-2	270	21	8.2	< 2.0	< 5.0	NA	< 5.0
	Apr-98	3-4	AEM		AEM-GP-2/3-4	400	160	110	< 10.0	< 25.0	NA	<25.0
AEM-GP5	Apr-98	1-2	AEM	1 of 1	AEM-GP-5/1-2	37	< 5.0	< 5.0	< 2.0	< 5.0	NA	< 5.0
	Apr-98	6-7	AEM		AEM-GP-5/6-7	150	< 5.0	<1 0.0	< 4.0	< 10.0	NA	<10.0
AEM-GP7	Apr-98	11-12	AEM	1 of 1	AEM-GP-7/11-12	40	< 5.0	< 5.0	< 2.0	< 5.0	NA	< 5.0
	Apr-98	16-17	AEM		AEM-GP-7/16-17	140	< 5.0	< 5.0	< 2.0	< 5.0	NA	< 5.0
	Apr-98	6-7	AEM		AEM-GP-7/6-7	44	< 5.0	7	< 2.0	< 5.0	NA	< 5.0
AEM-GP8	Apr-98	11-12	AEM	1 of 1	AEM-GP-8/11-12	220	12	17	< 2.0	< 5.0	NA	< 5.0
	Apr-98	6-7	AEM		AEM-GP-8/6-7	60	< 5.0	17	< 2.0	< 5.0	NA	< 5.0
GP-1B	Aug-99	6-8	ERM	1 of 1	ERM-GP1B-6-8	67	< 10.0	< 10.0	< 21.0	< 10.0	NA	NR
GP-1C	Aug-99	8-10	ERM	1 of 1	ERM-GP1C-8-10	37	< 8.6	< 8.6	< 17.0	< 8.6	NA	NR
GP-1D	Aug-99	0-2	ERM	1 of 1	ERM-GP-1D-0-2	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 5.0
GP-1E	Aug-99	0-2	ERM	1 of 1	ERM-GP-1E-0-2	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 5.0
GP-2D	Aug-99	0-2	ERM	1 of 1	ERM-GP-2D-0-2	140	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 5.0
GP-2E	Aug-99	4-6	ERM	1 of 1	ERM-GP-2E-4-6	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 5.0
GP-3B	Aug-99	4-6	ERM	1 of 1	ERM-GP3B-4-6	110	28	< 11.0	< 22.0	< 11.0	NA	NR
GP-3C	Aug-99	6-8	ERM	1 of 1	ERM-GP3C-6-8	46	16	< 6.4	< 13.0	< 6.4	NA	NR
GP-3D	Aug-99	4-6	ERM	1 of 1	ERM-GP-3D-4-6	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 5.0
GP-3E	Aug-99	6-8	ERM	1 of 1	ERM-GP-3E-6-8	5.2	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 5.0
GP-4B	Aug-99	4-6	ERM	1 of 1	ERM-GP4B-4-6	< 6.8	< 6.8	< 6.8	< 14.0	< 6.8	NA	NR
GP-4C	Aug-99	6-8	ERM	1 of 1	ERM-GP4C-6-8	49	< 14.0	< 14.0	< 28.0	< 14.0	NA	NR
ERM-SB1	Aug-99	4	ERM	1 of 1	ERMSB-1-4	< 6.0	< 6.8	< 6.8	< 14.0	< 6.8	NA	< 6.8
ERM-SB2	Aug-99	4	ERM	1 of 1	ERMSB-2-4	< 6.5	< 6.3	< 6.3	< 13.0	< 6.3	NA	< 6.3

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Name of this location on the Soil Delineation Maps	Date of Sample	Depth of Sample	Name of Organization that Collected Sample	Number of times this location has been sampled	Sample ID	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride	trans-1,2-Dichloroethene	1,4-Dioxane	1,1-Dichloroethene
						RRS = 877 ug/kg	RRS = 500 ug/kg	RRS = 18,900 ug/kg	RRS = 200 ug/kg	Not Calculated - Chemicals Not Detected Above Soil NC		
ERM-SB3	Aug-99	4	ERM	1 of 1	ERMSB-3-4	27	< 6.3	< 6.3	< 13.0	< 6.3	NA	< 6.3
ERM-SB4	Aug-99	4	ERM	1 of 1	ERMSB-4-4	120	< 5.8	< 5.8	< 12.0	< 5.8	NA	< 5.8
ERM-SB5	Aug-99	4	ERM	1 of 1	ERMSB-5-4	< 5.7	< 5.6	< 5.6	< 11.0	< 5.6	NA	< 5.6
ERM-SB6	Aug-99	4	ERM	1 of 1	ERMSB-6-4	< 6.1	< 5.7	< 5.7	< 11.0	< 5.7	NA	< 5.7
ERM-SB7	Aug-99	8	ERM	1 of 1	ERMSB-7-8	< 6.8	< 6.5	< 6.5	< 13.0	< 6.5	NA	< 6.5
ERM-SB8	Aug-99	4	ERM	1 of 1	ERMSB-8-4	< 6.3	< 6.1	< 6.1	< 12.0	< 6.1	NA	< 6.1
ERM-SB9	Aug-99	8	ERM	1 of 1	ERMSB-9-8	< 6.1	< 6.0	< 6.0	< 12.0	< 6.0	NA	< 6.0
ERM-SB10	Aug-99	8	ERM	1 of 1	ERMSB-10-8	< 6.4	< 6.3	< 6.3	< 13.0	< 6.3	NA	< 6.3
ERM-SB11	Aug-99	8	ERM	1 of 1	ERMSB-11-8	< 6.7	< 7.1	< 7.1	< 14.0	< 7.1	NA	< 7.1
ERM-SB12	Aug-99	8	ERM	1 of 1	ERMSB-12-8	100	12	120	< 13.0	< 6.3	NA	< 6.3
ERM-SB13	Aug-99	4	ERM	1 of 1	ERMSB-13-4	< 5.9	< 5.6	< 5.6	< 11.0	< 5.6	NA	< 5.6
ERM-SB14	Aug-99	8	ERM	1 of 1	ERMSB-14-8	< 6.0	< 5.9	< 5.9	< 12.0	< 5.9	NA	< 5.9
ERM-SB15	Aug-99	4	ERM	1 of 1	ERMSB-15-4	< 6.3	< 6.1	< 6.1	< 12.0	< 6.1	NA	< 6.1
ERM-SB16	Aug-99	4	ERM	1 of 1	ERMSB-16-4	15	< 6.0	< 6.0	< 12.0	< 6.0	NA	< 6.0
ERM-SB17	Aug-99	8	ERM	1 of 1	ERMSB-17-8	41	< 6.3	< 6.3	< 13.0	< 6.3	NA	< 6.3
ERM-SB18	Aug-99	8	ERM	1 of 1	ERMSB-18-8	< 7.1	< 6.4	< 6.4	< 13.0	< 6.4	NA	< 6.4
ERM-SB19	Aug-99	4	ERM	1 of 1	ERMSB-19-4	< 6.1	< 6.0	< 6.0	< 12.0	< 6.0	NA	< 6.0
ERM-SB20	Aug-99	8	ERM	1 of 1	ERMSB-20-8	50	8.9	20	< 13.0	< 6.7	NA	< 6.7
ERM-SB21	Aug-99	4	ERM	1 of 1	ERMSB-21-4	< 5.7	< 5.9	< 5.9	< 12.0	< 5.9	NA	< 5.9
ERM-SB22	Aug-99	8	ERM	1 of 1	ERMSB-22-8	71	7	34	< 14.0	< 6.8	NA	< 6.8
ERM-SB23	Aug-99	8	ERM	1 of 1	ERMSB-23-8	60	11	90	< 14.0	< 7.2	NA	< 7.2
ERM-SB24	Aug-99	4	ERM	1 of 1	ERMSB-24-4	< 5.9	< 5.7	< 5.7	< 11.0	< 5.7	NA	< 5.7
ERM-SB25A	Aug-99	4	ERM	1 of 1	ERMSB-25A-4	< 5.9	< 5.7	< 5.7	< 11.0	< 5.7	NA	< 5.7
ERM-SB32	Aug-99	4	ERM	1 of 1	ERMSB-32-4	< 6.0	< 5.9	< 5.9	< 12.0	< 5.9	NA	< 5.9
ERM-SB33	Aug-99	4	ERM	1 of 1	ERMSB-33-4	8.2	< 5.7	< 5.7	< 11.0	< 5.7	NA	< 5.7
ERM-SB34	Aug-99	4	ERM	1 of 1	ERMSB-34-4	< 5.9	< 5.2	< 5.2	< 10.0	< 5.2	NA	< 5.2
ERM-SB35	Aug-99	8	ERM	1 of 1	ERMSB-35-8	< 6.7	< 6.0	< 6.0	< 12.0	< 6.0	NA	< 6.0
ERM-SB36	Aug-99	8	ERM	1 of 1	ERMSB-36-8	< 25.0	< 6.7	< 6.7	< 13.0	< 6.7	NA	< 6.7
ERM-SB40	Aug-99	4	ERM	1 of 1	ERMSB-40-4	< 5.0	< 5.0	< 5.0	< 10.0	< 5.0	NA	< 5.0
ERM-SB39	Aug-99	4	ERM	1 of 1	ERMSB-39-4	< 5.0	< 5.0	< 5.0	< 10.0	< 5.0	NA	< 5.0
ERM - SVE PILOT TRENCH WEST	Aug-99	4	ERM	1 of 1	SVE PILOT TRENCH WEST	370	75	270	< 5.0	< 5.0	NA	< 5.0
GP-5F	Apr-01	2-4'	ERM	1 of 1	GP-5F	6.	12.	53.	< 5.	< 5.	NA	< 5.
	Apr-01	6-8'	ERM		GP-5F	< 5.	< 5.	< 5.	< 5.	< 5.	NA	< 5.
	Apr-01	10-12'	ERM		GP-5F	< 5.	< 5.	< 5.	< 5.	< 5.	NA	< 5.
GP-AS-41	Jan-03	2-4	ERM	1 of 1	AS-41	280.	< 5.8	< 5.8	< 12.	< 5.8	NA	< 5.8
GP-5D	Jan-03	2-4'	ERM	2 of 2	GP-5D (and GP-5DR)	280,000.	62.	< 5.7	< 11.	< 5.7	NA	< 5.7
CP-SB-6	Jan-03	6-8	ERM	2 of 2	CP-SB6	510.	400.	550.	43.	< 6.3	NA	< 6.3
RMT-SB-3	Jan-03	6.5-8	ERM	2 of 2	RMT-SB3	430.	100.	< 6.3	77.	< 6.3	NA	< 6.3
RMT-SB-5	Jan-03	6.5-8	ERM	2 of 2	RMT-SB5	210.	31.	49.	< 13.	< 6.5	NA	< 6.5
RMT-SB-7	Jan-03	6.5-8	ERM	2 of 2	RMT-SB7	110.	23.	140.	< 13.	< 6.4	NA	< 6.4
RMT-SB-8	Jan-03	3.5-5	ERM	2 of 2	RMT-SB8	< 5.9	< 5.9	< 5.9	< 12.	< 5.9	NA	< 5.9
RMT-SB-9	Jan-03	2.5-3	ERM	2 of 2	RMT-SB9	130.	< 5.6	< 5.6	< 11.	< 5.6	NA	< 5.6
RMT-SB-11	Jan-03	3.5-5	ERM	2 of 2	RMT-SB11	57.	< 5.8	< 5.8	< 12.	< 5.8	NA	< 5.8
AEM-GP1	Jan-03	3-4	ERM	2 of 2	AEM-GP1	6.9	< 5.5	< 5.5	< 11.	< 5.5	NA	< 5.5
GP-4A	Apr-05	2-4'	ERM	3 of 3	GP-4A	10.	< 1.8	< 1.8	< 1.8	< 1.8	NA	< 1.8
	Apr-05	4-6'	ERM		GP-4A	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	NA	< 1.9
	Apr-05	6-8'	ERM		GP-4A	< 2.3	< 2.3	< 2.3	< 2.3	< 2.3	NA	< 2.3
	Apr-05	8-10'	ERM		GP-4A	3.	< 2.	< 2.	< 2.	< 2.	NA	< 2.

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ug/kg

Name of this location on the Soil Delineation Maps	Date of Sample	Depth of Sample	Name of Organization that Collected Sample	Number of times this location has been sampled	Sample ID	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride	trans-1,2-Dichloroethene	1,4-Dioxane	1,1-Dichloroethene
						RRS = 877 ug/kg	RRS = 500 ug/kg	RRS = 18,900 ug/kg	RRS = 200 ug/kg	Not Calculated - Chemicals Not Detected Above Soil NC		
GP-AS-42	Apr-06	2-4'	ERM	1 of 1	AS-42	< 28.	< 28.	< 28.	< 28.	< 28.	NA	< 28.
	Apr-06	4-6'	ERM		AS-42	< 31.	< 31.	< 31.	< 31.	< 31.	NA	< 31.
	Apr-06	6-8'	ERM		AS-42	< 31.	< 31.	< 31.	< 31.	< 31.	NA	< 31.
	Apr-06	8-10'	ERM		AS-42	< 28.	< 28.	< 28.	< 28.	< 28.	NA	< 28.
	Apr-06	10-12'	ERM		AS-42	< 35.	< 35.	< 35.	< 35.	< 35.	NA	< 35.
AS-17	Apr-07	5-7'	ERM	4 of 4	GP-AS-17	470	14	27	< 9.6	< 4.8	NA	< 4.8
GP-AS-20	Apr-07	13-15'	ERM	4 of 4	GP-AS-20	< 5.5	< 5.5	< 5.5	< 11.	< 5.5	NA	< 5.5
GP-AS-28	Apr-07	12-14'	ERM	4 of 4	GP-AS-28	< 6.5	< 6.5	< 6.5	< 13.	< 6.5	NA	< 6.5
GP-AS-8	Apr-07	12-14'	ERM	4 of 4	GP-AS-8	< 5.6	< 5.6	< 5.6	< 11.	< 5.6	NA	< 5.6
GP-SVE-17	Apr-07	6-8'	ERM	4 of 4	GP-SVE-17	230	< 4.9	< 4.9	< 9.8	< 4.9	NA	< 4.9
GP-SVE-21	Apr-07	12-14'	ERM	4 of 4	GP-SVE-21	< 5.3	< 5.3	< 5.3	< 11.	< 5.3	NA	< 5.3
GP-SVE-8	Apr-07	12-14'	ERM	4 of 4	GP-SVE-8	26	< 6.8	< 6.8	< 14.	< 6.8	NA	< 6.8
GP-SVE-34	Apr-07	2-4'	ERM	1 of 1	GP-SVE-34	260.	120.	< 4.6	< 9.2	< 4.6	NA	< 4.6
	Apr-07	4-6'	ERM		GP-SVE-34	340.	39.	< 4.2	< 8.5	< 4.2	NA	< 4.2
	Apr-07	6-8'	ERM		GP-SVE-34	5.8	< 5.3	< 5.3	< 11.	< 5.3	NA	< 5.3
	Apr-07	8-10'	ERM		GP-SVE-34	9.9	< 5.	< 5.	< 10.	< 5.	NA	< 5.
HA-1	May-09	3	ERM	1 of 1	HA-1 (3')	<4.6	<4.6	<4.6	<9.2	<4.6	NA	<4.6
	May-09	6	ERM		HA-1 (6')	47	<5.6	<5.6	<11	<5.6	NA	<5.6
HA-2	May-09	3	ERM	1 of 1	HA-2(3')	170	5.6	35	<10	<5.2	NA	<5.2
	May-09	6	ERM		HA-2(6')	65	<5.6	<5.6	<11	<5.6	NA	<5.6
HA-3	May-09	3	ERM	1 of 1	HA-3(3')	24	<6.4	<6.4	<13	<6.4	NA	<6.4
	May-09	6	ERM		HA-3(6')	15	<5.2	<5.2	<10	<5.2	NA	<5.2
HA-4	May-09	3	ERM	1 of 1	HA-4(3')	130	<5.0	<5.0	<10	<5.0	NA	<5.0
	May-09	6	ERM		HA-4(6')	290	10	27	<9.9	<5.0	NA	<5.0
HA-9	May-09	3	ERM	1 of 1	HA-9(3')	17	21	5.3	<9.2	<4.6	<460	<4.6
HA-10	May-09	5	ERM	1 of 1	HA-10(5')	29	<4.8	<4.8	<9.7	<4.8	<480	<4.8
HA-11	May-09	5	ERM	1 of 1	HA-11(5')	31	<4.2	<4.2	<8.5	<4.2	<420	<4.2
HA-12	May-09	5	ERM	1 of 1	12	950	<300	<300	<600	<300	<30000	<300
HA-13	May-09	3	ERM	1 of 1	HA-13(3')	42	18	<5.4	<11	<5.4	<540	<5.4
HA-14	May-09	3	ERM	1 of 1	HA-14(3')	32	91	59	<9.9	<5.0	<500	<5.0
HA-15	May-09	5	ERM	1 of 1	HA-15(5')	5.6	<5.2	<5.2	<10	<5.2	<520	<5.2
HA-16	May-09	5	ERM	6 of 6	HA-16(5')	<4.7	<4.7	<4.7	<9.3	<4.7	<470	<4.7
HA-17	May-09	5	ERM	1 of 1	17	<5	<5	<5	<10	<5	<100	<5
HA-18	May-09	3	ERM	1 of 1	HA-18(3')	85	7.4	<5.4	<11	<5.4	<540	<5.4
HA-20	May-09	5	ERM	1 of 1	HA-20(5')	<5.2	<5.2	<5.2	<12	<5.8	<580	<5.8
HA-21	May-09	3	ERM	1 of 1	HA-21(3')	230	<5.6	<5.6	<11	<5.6	<560	<5.6
HA-22	May-09	3	ERM	1 of 1	HA-22(3')	23	<5.6	<5.6	<11	<5.6	<560	<5.6
HA-24	May-09	5	ERM	1 of 1	HA-24(5')	<4.4	100	180	<8.8	61	<440	<4.4
HA-25	May-09	3	ERM	1 of 1	HA-25(3')	85	<4.6	<4.6	<9.2	<4.6	<460	<4.6
HA-26	May-09	3	ERM	1 of 1	HA-26(3')	20	<5.5	<5.5	<11	<5.5	<550	<5.5
HA-27	May-09	5	ERM	1 of 1	HA-27(5')	12	<5.6	<5.6	<11	<5.6	<560	<5.6
HA-28	May-09	5	ERM	1 of 1	28	14	<4.6	<4.6	<9.2	<4.6	<460	<4.6
HA-29	May-09	5	ERM	1 of 1	29	<5.2	<5.2	<5.2	<10	<5.2	<520	<5.2
GP-100	Jan-10	4	ERM	1 of 1	GP-100(4)	150	<4.9	<4.9	<9.8	<4.9	<150	<4.9
	Jan-10	7	ERM		GP-100(7)	8.4	<5.6	<5.6	<11	<5.6	<170	<5.6
GP-101	Jan-10	3	ERM	1 of 1	GP-101(3')	8200	<230	<230	<470	<230	<7000	<230
	Jan-10	8	ERM		GP-101(8')	40	<6.2	<6.2	<12	<6.2	<180	<6.2
GP-102	Jan-10	3	ERM	1 of 1	GP-102(3')	170	<4.5	<4.5	<9	<4.5	<130	<4.5
	Jan-10	8	ERM		GP-102(8')	<5.6	<5.6	<5.6	<11	<5.6	<170	<5.6
GP-103	Jan-10	3	ERM	1 of 1	GP-103(3')	1800	<4.3	<4.3	<8.6	<4.3	<130	<4.3
	Jan-10	8	ERM		GP-103(8')	65	<5.8	<5.8	<12	<5.8	<170	<5.8
GP-104	Jan-10	3	ERM	1 of 1	GP-104(3')	120	<6.4	<6.4	<13	<6.4	<190	<6.4
	Jan-10	8	ERM		GP-104(8')	47	<6.0	<6.0	<12	<6.0	<180	<6.0
HA-19	Jan-10	2.5	ERM	2 of 2	HA-19(2.5')	82000	1200	<240	<470	<240	<7100	<240
	Jan-10	5	ERM		HA-19(5')	47	9.9	<5.7	<11	<5.7	<170	<5.7

Table 1
Soil Analytical Data
Former Dickies Industrial Services, Inc.
HSI Site No. 10127
ug/kg

Name of this location on the Soil Delineation Maps	Date of Sample	Depth of Sample	Name of Organization that Collected Sample	Number of times this location has been sampled	Sample ID	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride	trans-1,2-Dichloroethene	1,4-Dioxane	1,1-Dichloroethene
						RRS = 877 ug/kg	RRS = 500 ug/kg	RRS = 18,900 ug/kg	RRS = 200 ug/kg	Not Calculated - Chemicals Not Detected Above Soil NC		
HA-30	Jan-10	3	ERM	1 of 1	HA-30(3')	43000	1700	38	<9.7	<4.9	<150	<4.9
	Jan-10	5	ERM		HA-30(5')	53000	5700	16	<11	<5.4	<160	<5.4
HA-31	Jan-10	3	ERM	1 of 1	HA-31(3')	100000	600	<260	<520	<260	<7800	<260
	Jan-10	5	ERM		HA-31(5')	48000	1100	<270	<550	<270	<8200	<270
HA-32	Jan-10	3	ERM	1 of 1	HA-32(3')	30000	49	<4.8	<9.7	<4.8	<150	<4.8
	Jan-10	5	ERM		HA-32(5')	660	8.1	<4.6	<9.1	<4.6	<140	<4.6
GP-1A	Jan-10	7	ERM	2 of 2	GP-1A(7')	9.4	<5.0	<5.0	<10	<5.0	<150	<5.0
	Jan-10	10	ERM		GP-1A(10')	24	<6.2	<6.2	<12	<6.2	<190	<6.2
GP-2A	Jan-10	3	ERM	2 of 2	GP-2A(3')	25000	<240	<240	<470	<240	<7100	<240
	Jan-10	10	ERM		GP-2A(10')	610	<5.8	<5.8	<12	<5.8	<170	<5.8
GP-3A	Jan-10	5	ERM	2 of 2	GP-3A(5')	30	<5.4	<5.4	<11	<5.4	<160	<5.4
GP-2B	Jan-10	2	ERM	2 of 2	GP-2B(2')	66000	52	<4.9	<9.7	<4.9	<150	<4.9
	Jan-10	5	ERM		GP-2B(5')	14	<4.9	<4.9	<9.8	<4.9	<150	<4.9
GP-2C	Jan-10	1	ERM	2 of 2	GP-2C(1')	910	270	<4.5	<9.0	<4.5	<140	<4.5
AEM-GP4	Jan-10	1.5	ERM	2 of 2	AEM-GP-4(1.5)	160	7.6	<4.8	<9.6	<4.8	<140	<4.8
AEM-HA6	Jan-10	4.5	ERM	2 of 2	AEM-HA6(4.5')	69	<6	<6	<12	<6.0	<180	<6.0
	Jan-10	7	ERM		AEM-HA6(7')	13	<4.9	<4.9	<9.8	<4.9	<150	<4.9
HA-23	Jan-10	3	ERM	2 of 2	HA-23(3')	1100	67	<5.0	<9.9	<5.0	<150	<5.0
	Jan-10	7	ERM		HA-23(7')	89	15	<5.6	<11	<5.6	<170	<5.6
	Jan-10	10	ERM		HA-23(10')	39	<5.5	<5.5	<11	<5.5	<160	<5.5
GP-AS-23	Jan-10	5	ERM	6 of 6	GP-AS-23(5')	89	<4.6	<4.6	<9.3	<4.6	<140	<4.6
GP-5GR	Jan-10	3	ERM	7 of 7	GP-5GR(3')	6600	13	<5.2	<10	<5.2	<160	<5.2
GP-5DR	Jan-10	3	ERM	5 of 5	GP-5D(3')	39000	<250	<250	<500	<250	<7500	<250
	Jan-10	11	ERM		GP-5D(11')	620	<6.6	<6.6	<13	<6.6	<200	<6.6
GP-5E	Jan-10	3	ERM	3 of 3	GP-5E(3')	74	13	<4.8	<9.5	<4.8	140	<4.8
GP-5H	Jan-10	3	ERM	4 of 4	GP-5H(3')	61000	2300	<210	<430	<210	<6400	<210
GP-AS-39	Jan-10	3	ERM	6 of 6	GP-AS-39(3')	2000	<5.9	<5.9	<12	<5.9	<180	<5.9
	Jan-10	11	ERM		GP-AS-39(11')	530	<5.8	<5.8	<12	<5.8	<170	<5.8
GP-AS-40	Jan-10	3	ERM	4 of 4	GP-AS-40(3')	1500	10	<4.5	<9.0	<4.5	<130	<4.5
AEM-GP-3	Jan-10	3	ERM	6 of 6	AEM-GP-3(3')	12000	3100	34	<9.7	<4.9	<150	<4.9
AREA A NORTHWALL 3'	6/14/10	North Wall - 3' bgs	ERM	1 of 1	AREA A NORTHWALL 3'	460	<180	<180	<360	<180	<5400	<180
AREA A NORTHWALL 6'	6/14/10	North Wall - 6' bgs	ERM	1 of 1	AREA A NORTHWALL 6'	140	<4.4	<4.4	<8.7	<4.4	<130	<4.4
AREA A SOUTHWALL 3'	6/14/10	South Wall - 3' bgs	ERM	1 of 1	AREA A SOUTHWALL 3'	450	<200	<200	<400	<200	<5900	<200
AREA A SOUTHWALL 6'+6'	6/22/10	South Wall - 6' bgs	ERM	1 of 1	AREA A SOUTHWALL 6'+6'	790	21	19	<10.0	<5.1	<150	<5.1
AREA A EASTWALL 3'	6/14/10	East Wall - 3' bgs	ERM	1 of 1	AREA A EASTWALL 3'	170	<4.5	17	<9.0	<4.5	<130	<4.5
AREA A EASTWALL 6'+2'	6/18/10	East Wall - 6' bgs	ERM	1 of 1	AREA A EASTWALL 6'+2'	300	<4.3	14	<8.6	<4.3	<130	<4.3
AREA A WESTWALL 3'	6/14/10	West Wall - 3' bgs	ERM	1 of 1	AREA A WESTWALL 3'	75	<3.3	9	<6.5	<3.3	<98	<3.3
AREA A WESTWALL 6'	6/14/10	West Wall - 6' bgs	ERM	1 of 1	AREA A WESTWALL 6'	140	4.4	19	<7.8	<3.9	<120	<3.9
AREA B WEST WALL SURFACE	6/3/10	West Wall	ERM	1 of 1	AREA B WEST WALL SUR	710	<3.4	<3.4	<6.9	<3.4	<100	<3.4
AREA B EAST WALL 2'	6/7/10	East Wall	ERM	1 of 1	AREA B EAST WALL 2'	30	<3.1	<3.1	<6.3	<3.1	<94	<3.1
AREA B NORTHWALL	6/7/10	North Wall	ERM	1 of 1	AREA B NORTHWALL	110	<3.4	<3.4	<6.7	<3.4	<100	<3.4
AREA B BOTTOM SURFACE	6/4/10	Bottom	ERM	1 of 1	AREA B BOTTOM SUR	81.4	<2.7	<2.7	<5.4	<2.7	<80	<2.7
AREA C NORTHWALL	6/7/10	North Wall	ERM	1 of 1	AREA C NORTHWALL	19	<4.5	<4.5	<8.9	<4.5	<130	<4.5
AREA C EAST WALL SURFACE	6/3/10	East Wall	ERM	1 of 1	AREA C EAST WALL SUR	34	<4.3	<4.3	<8.7	<4.3	<130	<4.3
AREA C WEST WALL SURFACE	6/3/10	West Wall	ERM	1 of 1	AREA C WEST WALL SUR	94	<2.6	<2.6	<5.2	<2.6	<77	<2.6
AREA C BOTTOM SURFACE	6/4/10	Bottom	ERM	1 of 1	AREA C BOTTOM SUR	63	<3.4	<3.4	<6.7	<3.4	<100	<3.4
AREA D SOUTH WALL 4'	6/1/10	South Wall	ERM	1 of 1	AREA D SOUTH WALL 4'	500	4.5	<3.0	<6.0	<3.0	<90	<3.0
AREA D WESTWALL 10'	6/9/10	West Wall	ERM	1 of 1	AREA D WESTWALL 10'	570	23	<5.7	<11	<5.7	<170	<5.7
AREA D EASTWALL 1'	5/21/10	East Wall	ERM	1 of 1	AREA D EASTWALL 1'	500	14	<3.7	<7.4	<3.7	<110	<3.7
AREA D BOTTOM SURFACE	5/19/10	Base	ERM	1 of 1	AREA D BOTTOM SUR	590	<3.5	<3.5	<7.0	<3.5	<110	<3.5
AREA ES SOUTHWALL W-1'	5/21/10	South Wall - West Side	ERM	1 of 1	AREA ES SOUTHWALL W-1'	290	39	<4.4	<8.8	<4.4	<130	<4.4
AREA ES SOUTH WALL E-6'	6/7/10	South Wall - East Side	ERM	1 of 1	AREA ES SOUTH WALL E-6'	27	17	<3.3	<6.7	<3.3	<110	<3.3
AREA ES WESTWALL S-6'	6/7/10	West Wall - southern part	ERM	1 of 1	AREA ES WESTWALL S-6'	270	180	16	<6.4	<3.2	<96	<3.2

Table 1
Soil Analytical Data
Former Dickies Industrial Services, Inc.
HSI Site No. 10127
ug/kg

Name of this location on the Soil Delineation Maps	Date of Sample	Depth of Sample	Name of Organization that Collected Sample	Number of times this location has been sampled	Sample ID	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride	trans-1,2-Dichloroethene	1,4-Dioxane	1,1-Dichloroethene
						RRS = 877 ug/kg	RRS = 500 ug/kg	RRS = 18,900 ug/kg	RRS = 200 ug/kg	Not Calculated - Chemicals Not Detected Above Soil NC		
AREA ES WESTWALL N-8	6/9/10	West Wall - northern part	ERM	1 of 1	AREA ES WESTWALL N-8	430	330	<3.0	<6.1	<3.0	<91	<3.0
AREA ES EASTWALL 3'	6/3/10	East Wall	ERM	1 of 1	AREA ES EASTWALL 3'	750	<3.5	<3.5	<7	<3.5	<110	<3.5
AREA ES BOTTOM SURFACE	5/20/10	Base	ERM	1 of 1	AREA ES BOTTOM SUR	12	<3.3	<3.3	<6.6	<3.3	<100	NR
AREA EM WEST WALL SURFACE	5/25/10	West Wall	ERM	1 of 1	AREA EM WEST WALL SUR	85	<6.2	<6.2	<12	<6.2	<190	<6.2
AREA EM EAST WALL 4'	6/3/10	East Wall	ERM	1 of 1	AREA EM EAST WALL 4'	36	<2.9	<2.9	<5.8	<2.9	<87	<2.9
AREA EM BOTTOM 1'	5/25/10	Base	ERM	1 of 1	AREA EM BOTTOM 1'	790	<3.2	<3.2	<6.4	<3.2	<96	<3.2
AREA EN WEST WALL SURFACE	5/21/10	West Wall	ERM	1 of 1	AREA EN WEST WALL SUR	17	37	<3.2	<6.3	<3.2	<95	<3.2
AREA EN NORTHWALL W-S	5/21/10	North Wall - West Side	ERM	1 of 1	AREA EN NORTHWALL W-S	24	10	<3.4	<6.9	<3.4	<100	<3.4
AREA EN NORTHWALL E-SU	5/21/10	North Wall - East Side	ERM	1 of 1	AREA EN NORTHWALL E-SU	78	14	<4.0	<8.1	<4.0	<120	<4.0
AREA EN EASTWALL 1'	5/24/10	East Wall	ERM	1 of 1	AREA EN EASTWALL 1'	790	<3.3	<3.3	<6.6	<3.3	<98	<3.3
AREA EN BOTTOM SURFACE	5/21/10	Base	ERM	1 of 1	AREA EN BOTTOM SUR	69	4.8	<3.7	<7.4	<3.7	<110	<3.7
AREA F NORTH WALL SURFACE	5/26/10	North Wall	ERM	1 of 1	AREA F NORTH WALL SUR	11	<4.0	<4.0	<7.9	<4.0	<120	<4.0
AREA F WEST WALL SURFACE	5/26/10	West Wall	ERM	1 of 1	AREA F WEST WALL SUR	50	<3.4	<3.4	<6.9	<3.4	<100	<3.4
AREA F SOUTH WALL SURFACE	5/26/10	South Wall	ERM	1 of 1	AREA F SOUTH WALL SUR	170	13	<3.4	<6.8	<3.4	<100	<3.4
AREA F EAST WALL SURFACE	5/26/10	East Wall	ERM	1 of 1	AREA F EAST WALL SUR	63	6.1	<3.5	<7.0	<3.5	<110	<3.5
AREA F BOTTOM SURFACE	5/26/10	Base	ERM	1 of 1	AREA F BOTTOM SUR	20	<4.4	<4.4	<8.8	<4.4	<130	<4.4
AREA G WEST WALL SURFACE	5/20/10	West Wall	ERM	1 of 1	AREA G WEST WALL SUR	87	<3.8	<3.8	<7.6	<3.8	<110	<3.8
AREA "G" SOUTHWALL SURFACE	5/19/10	South Wall	ERM	1 of 1	AREA "G" SOUTHWALL SUR	45	<4.3	<4.3	<8.6	<4.3	<130	<4.3
AREA "G" EASTWALL SURFACE 2'	5/19/10	East Wall	ERM	1 of 1	AREA "G" EASTWALL SUR 2'	37	<4.7	<4.7	<9.4	<4.7	<140	<4.7
AREA "G" BOTTOM SURFACE 4'	5/19/10	Base	ERM	1 of 1	AREA "G" BOTTOM SUR 4'	620	<3.4	<3.4	<6.8	<3.4	<100	<3.4
ERM-SB-A	9/23/10	4	ERM	1 of 1	ERM-SB-A-4	<6	<6	<6	<12	<6	<180	<6
	9/23/10	8	ERM		ERM-SB-A-8	<5.6	<5.6	<5.6	<11	<5.6	<170	<5.6
ERM-SB-B	9/23/10	8	ERM	1 1	ERM-SB-B-8	<4.9	<4.9	<4.9	<9	<4.9	<150	<4.9
ERM-SB-C	9/23/10	4	ERM	1 1	ERM-SB-C-4	6	<5	<5	<10	<5	<150	<5

NOTES:

^A Reported as 1,2-Dichloroethene, total

NA = Not Analyzed

NS = Not Sampled

Highlighted Cells > RRS (these samples >RRS have since been remediated)

Table 2
Monitoring Well Construction Details
Former Dickies Industrial Services, Inc.
HSI Site No. 10127

Well No.	Land Surface Elevation (ft-msl)	TOC Elevation (ft-msl) (8)	Top of Bentonite Seal (ft bg)	Casing† Stick-up (TOC to Pad) (ft)	Total Boring Depth (ft bg)	Depth to Water Below TOC	Casing Length (ft)	Screen Length (ft)	Screen Interval (ft-bg)	Casing/Screen Material diameter	Depth of PDB Placement (ft-bTOC)	Date Completed	Date Closed	Easterly Coordinate	Northerly Coordinate	Aquifer Zone	Property	Comment
CDM WELLS																		
CP-MW-1	1013.04	1014.29	2	Flush Mount	20	13.1	5	15	5-20	2"/PVC	16	10/16/90		2204298.28	1319058.15	Shallow	DISI	Well was raised 10 1/8 inches (0.843 ft) on 3/15/04 during well pad repairs. TOC values in this table has been changed to reflect this.
CP-MW-2	1013.04	1012.85	2	Flush Mount	27		7	20	7-27	2"/PVC	17	10/17/90		2204248.04	1319062.43	Shallow	DISI	
CP-MW-3	1013.41	1013.12	2	Flush Mount	27		7	20	7-27	2"/PVC	NA	10/19/90	2/11/03	2204242.69	1318973.46	Shallow	DISI	
CP-MW-4	1023.73	1023.46	13	Flush Mount	27		17	10	17-27	2"/PVC	NA	10/18/90	2/11/03	2204289.32	1319068.64	Shallow	DISI	
CP-MW-5	1014.72	1017.04	12	2.5	31		16	15	16-31	2"/PVC	NA	3/11/91	2/14/00	2204264.93	1319256.95	Shallow	CCE	Closed 2/14/00 for CCE construction
CP-MW-6	1012.92	1012.73	30	Flush Mount	45		34	10	34-44	2"/PVC	NA	3/12/91	12/1/03	2204241.80	1319062.64	Deep	DISI	Closed by ERM/Kilman team on 12/1/2003.
CP-MW-7	1013.76	1013.60	5	Flush Mount	24		9	15	9-24	2"/PVC	NA	3/13/91	04/07/03	2204202.46	1319120.90	Shallow	CCE	Closed 4/7/2003 due to proximity to AS well and screened depth
CP-MW-8	1013.35	1013.21	6	Flush Mount	55		10	40	10-50	4"/PVC	30	3/14/91		2204267.17	1319062.70	Deep	DISI	
Hill-Fister Engineers, Inc.																		
EF-MW-1			14	2.83	30.5		20.5	10	20.5-30.5	2"/PVC	NA	9/25/87	2/14/00			Shallow	CCE	Closed 2/14/00 for CCE construction
EF-MW-2	1012.75	1014.77	2.5	2.5	15		5	10	5-15	2"/PVC	NA	9/25/87	12/1/03	2204339.31	1319194.95	Shallow	DISI	Closed by ERM/Kilman team on 12/1/2003.
EF-MW-3	1011.89	1013.60	2	1.58	18		8	10	8-18	2"/PVC	NA	9/25/87	2/14/00	2204399.76	1319329.27	Shallow	CCE	Closed 2/14/00 for CCE construction
A.T.&E. Consultants, Inc.																		
EF-MW-4	1012.63	1014.11	2.5	1.5	18.5		8.5	10	8.5-18.5	2"/PVC	14	6/26/87		2204289.32	1319068.64	Shallow	DISI	
RMT Wells																		
MW-3A	1013.02	1013.26	34.5	Flush Mount	72		47	5	47-52	2"/PVC	NA	9/9/92	2/11/03	2204242.21	1318967.28	Deep	DISI	
MW-9	1014.06	1016.90	1	Yes	15	16.12	3.5	10	3.5-13.5	2"/PVC	10.5	8/26/92		2204268.16	1319198.34	Shallow	DISI	
MW-9A	1013.94	1016.65	31	Yes	41.5	16.91	36.5	5	36.5-41.5	2"/PVC	NA	8/27/92	4/2/03	2204275.39	1319198.98	Deep	DISI	Became AS-13 well, 4/2003
MW-10	1015.08	1018.08	5	Yes	20	17.82	8.5	10	8.5-18.5	2"/PVC	16	8/26/92		2204399.40	1319053.32	Shallow	DISI	
MW-10A	1012.83	1015.78	43	Yes	54.5	15.5	47.8	5	47.8-52.8	2"/PVC	51	8/31/92		2204399.56	1319061.15	Deep	DISI	
MW-11	1014.87	1017.60	2	Yes	15		5	10	5-15	2"/PVC	NA	9/1/92	2/14/00	2204207.52	1319289.83	Shallow	CCE	Closed 2/14/00 for CCE construction
MW-12	1013.39	1013.25	2	Yes	15	12.42	5	10	5-15	2"/PVC	10	9/1/92	Converted to SVE-4	2204200.51	1319062.42	Shallow	CCE	Became SVE-4 well during construction, 4/2003. New TOC was not surveyed - do not use for GW potentiometric surface maps
MW-13	1013.99	1013.50	2	Flush Mount	15	17.08	5	10	5-15	2"/PVC	13	9/1/92		2204193.30	1318955.23	Shallow	CCE	WELL TOC WAS LOWERED ON 1/13/06. Lowered by 3.39 feet
MW-13A	1013.96	1013.56	62	Flush Mount	72	17.25	65	5	65-70	2"/PVC	70	9/2/92		2204193.62	1318950.63	Deep	CCE	WELL TOC WAS LOWERED ON 1/13/06 by 3.39 feet
MW-14	1014.21	1017.28	2	Flush Mount	17.5		5	10	5-15	2"/pvc	13	9/4/92		2204203.00	1319204.37	Shallow	CCE	
ERM Wells																		
MW-9B	1014.20	1016.81	2	2.43	16		6	10	6-16	2"/PVC	NA	3/12/1999	12/1/03	2204290.25	1319199.3	Shallow	DISI	Closed by ERM/Kilman team on 12/1/2003.
MW-9C	1013.99	1016.84	Ground Surface	2.57	15		5	10	5-15	2"/PVC	NA	3/12/1999	12/1/03	2204304.93	1319198.35	Shallow	DISI	Closed by ERM/Kilman team on 12/1/2003.
MW-15	1023.85	1023.67	56	Flush Mount	70		60	10	60-70	2"/PVC	NA	9/30/1998	2/11/03	2203929.63	1318697.41	Deep	SEARS	
MW-16	1023.66	1023.42	15	Flush Mount	29		19	10	19-29	2"/PVC	NA	10/1/1998	2/11/03	2203934.11	1318699.35	Shallow	SEARS	
MW-17	1027.23	1029.41	14	2.03	29		18	10	18-28	2"/PVC	NA	10/1/1998	2/14/00	2204536.09	1318692.35	Shallow	CCE	Closed 2/14/00 for CCE construction
MW-18D	1013.40	1013.97	No Seal	Flush Mount	132	12.38	92	Open Borehole	Open Borehole	6"/PVC	110	10/29/1998		2204306.25	1319064.42	Deep	DISI	Rock Well. Well was raised 9 1/2 inches (0.791 ft) on 4/7/04 during well pad repairs. TOC value in this table has been changed to reflect this.
MW-19	1022.68	1022.36	57	Flush Mount	75	24.36	65	10	65-75	2"/PVC	70	11/24/1998		2204931.78	1318964.69	Deep	CCE	
MW-20	1022.68	1022.45	17.5	Flush Mount	33	25.02	23	10	23-33	2"/PVC	28	11/24/1998		2204937.2	1319213.73	Shallow	CCE	
MW-21	1031.18	1030.74	29	Flush Mount	51	30.56	40	10	40-50	2"/PVC	NA	11/30/1998	6/2/2003	2203447.33	1319249.56	Deep	DOVER	
MW-22	1031.17	1030.86	20	Flush Mount	35	30.55	24.6	10	24.6-34.6	2"/PVC	NA	12/1/1998	6/2/2003	2203450.5	1319237.05	Shallow	DOVER	
MW-23	1008.84	1011.02	46	2.18	62		52	10	52-62	2"/PVC	NA	3/9/1999	9/12/2002	2204687.09	1320542.82	Deep	CCE/STEVENSON	
MW-24	1009.09	1011.16	3	1.84	19		8	10	8-18	2"/PVC	NA	3/10/1999	9/12/2002	2204687.51	1320535.19	Shallow	CCE/STEVENSON	
MW-25	1023.12	1022.82	30	Flush Mount	34	30.95	34	10	34-44	2"/PVC	39	3/10/1999		2205501.13	1319122.87	Deep	CCE	
MW-26	1006.71	1009.31	14**	2.35	35.5		35.5	10	35.5-45.5	2"/PVC	NA	5/5/1999	9/12/2002	2204825.51	1320916.44	Deep	CCE/STEVENSON	
MW-27	1006.92	1009.16	Surface	1.49	23		10	10	8-18	2"/PVC	NA	5/5/1999	9/12/2002	2204819.98	1320911.56	Shallow	CCE/STEVENSON	
MW-28	NS	NS	Surface	NS	22		22	10	22-32	2"/PVC	NA	8/12/1999	2/14/00	NS	NS	Shallow	CCE	Closed 2/14/00 for CCE construction

Table 2
Monitoring Well Construction Details
Former Dickies Industrial Services, Inc.
HSI Site No. 10127

Well No.	Land Surface Elevation (ft-msl)	TOC Elevation (ft-msl) (8)	Top of Bentonite Seal (ft bg)	Casing† Stick-up (TOC to Pad) (ft)	Total Boring Depth (ft bg)	Depth to Water Below TOC	Casing Length (ft)	Screen Length (ft)	Screen Interval (ft-bg)	Casing/ Screen Material diameter	Depth of PDB Placement (ft-bTOC)	Date Completed	Date Closed	Easterly Coordinate	Northerly Coordinate	Aquifer Zone	Property	Comment
MW-28R	1009.56	1009.53	19	Flush Mount	33	11.37	13	10	23-33	2"/PVC	18	9/6/2002		2204564.88	1319752.56	Shallow	CCE	
MW-29	1005.87	1009.31	20.5	3.44	35		25	10	25-35	2"/PVC	NA	7/10/2000	2/14/00	2204858.07	1319936.85	Shallow	CCE	Temporary. May have been destroyed during construction
MW-29R	1010.21	1010.07	20.8	Flush Mount	35	14	25	10	25-35	2"/PVC	30	9/5/2002		2204845.17	1319887.15	Shallow	CCE	no standard penetration test performed
MW-30	1022.85	1026.11	16	3.26	35		21	10	21-31	2"/PVC	NA	7/10/2000	12/1/2003	2204120.19	1319794.83	Shallow	CCE	Closed by ERM/Kilman team on 12/1/2003.
MW-31	1017.75	1017.38	35***	Flush Mount	63.5		53.5	10	53.5-63.5	2"/PVC	59	7/13/2000		2204050.47	1318808.45	Deep	SMITH	Closed by ERM/Betts Env. team in Dec. 2007
MW-32	1019.76	1019.19	Surface	Flush Mount	20	17.92	10	10	10-20	2"/PVC	15	7/12/2000		2203979.36	1319176.24	Shallow	PUJA	
MW-33	1030.14	1029.73	18	Flush Mount	33	29.24	23	10	23-33	2"/PVC	28	7/11/2000		2203686.27	1319238.93	Shallow	DOVER	
MW-34	1015.39	1015.4	25	Flush Mount	40	14.53	30	10	30-40	2"/PVC	35	9/4/2002		2204190.55	1318812.74	Deep	DISI	
MW-35	1022.71	1022.55	20.5	Flush Mount	35	22.32	25	10	25-35	2"/PVC	30	9/5/2002		2204556.04	1318845.61	Shallow	CCE	no lithologies taken
MW-35A	1022.74	1022.57	36	Flush Mount	50	22.32	40	10	40-50	2"/PVC	45	9/5/2002		2204558.69	1318845.34	Deep	CCE	
MW-36	1015.31	1015.16	7.6	Flush Mount	22	14.6	12	10	12-22	2"/PVC	17	9/5/2002		2204239.23	1319377.7	Shallow	CCE	
MW-37	1013.92	1013.49	21	Flush Mount	35	13.47	25	10	25-35	2"/PVC	30	9/6/2002		2204382.5	1319345.81	Shallow	CCE	no lithologies taken
MW-37A	1013.98	1013.69	36	Flush Mount	50	13.19	40	10	40-50	2"/PVC	45	9/6/2002		2204386.36	1319345.75	Deep	CCE	
MW-38	1018.5	1018.4	19.8	Flush Mount	35	18.83	25	10	25-35	2"/PVC	30	9/4/2002		2204597.63	1319050.56	Shallow	CCE	no lithologies taken
MW-38A	1018.5	1018.31	35.8	Flush Mount	49	18.73	39	10	39-49	2"/PVC	44	9/4/2002		2204597.78	1319048.11	Shallow	CCE	
MW-39	NS	NS	13	Flush Mount	25		15	10	15-25	2"/PVC	NA	2/18/2011		NS	NS	Shallow	PUJA	

NOTES:

Ground surface elevations and top-of-casing elevations surveyed on September 15, 1998

Depths to ground water collected in September 2002

Well coordinates surveyed on September 15, 1998

ft bg = feet below ground

ft msl = feet above mean sea level

ft btoc = feet below top of casing

NA = Not Available

NS = Not surveyed

* = Surface casing set to 92 feet bg., well is bedrock, open borehole well.

** = Top of Bentonite seal should be at about 31.5 feet bg., some cave-in occurred when augers were pulled.

*** = Top of Bentonite seal should be at about 48 feet bg., some cave-in occurred when augers were pulled.

Note: FF of Bldg. 1019.5

Table 3
 Ground Water Elevation Data
 Former Dickies Industrial Services, Inc.
 HSI Site No. 10127

Well ID	TOC ELEV	October 3, 2005		October 11, 2006		October 10, 2007		October 6, 2008		October 20, 2009		October 11, 2010	
		Depth to Water	Water Table Elevation	Depth to Water	Water Table Elevation	Depth to Water	Water Table Elevation	Depth to Water	Water Table Elevation	Depth to Water	Water Table Elevation	Depth to Water	Water Table Elevation
MW-1	1014.29	9.53	1004.76	12.50	1001.79	14.10	1000.19	14.15	1000.14	10.35	1003.94	11.40	1002.89
MW-2	1012.85	5.11	1007.74	9.80	1003.05	12.21	1000.64	12.86	999.99	9.58	1003.27	8.90	1003.95
MW-4	1014.11	8.94	1005.17	10.60	1003.51	13.10	1001.01	13.67	1000.44	10.00	1004.11	9.60	1004.51
MW-8	1013.21	8.14	1005.07	9.90	1003.31	11.38	1001.83	13.12	1000.09	9.83	1003.38	9.30	1003.91
MW-9	1016.90	12.22	1004.68	13.90	1003.00	16.05	1000.85	16.44	1000.46	13.35	1003.55	12.91	1003.99
MW-10	1018.08	13.53	1004.55	15.50	1002.58	17.90	1000.18	18.11	999.97	14.48	1003.60	14.74	1003.34
MW-10A	1015.78	11.42	1004.36	13.10	1002.68	15.58	1000.20	15.88	999.90	12.68	1003.10	12.40	1003.38
MW-12	1013.25	13.23	1000.02	13.40	999.85	15.37	997.88	15.95	997.30	13.18	1000.07	12.18	1001.07
MW-13	1013.50	12.72	1004.17	10.80	1002.70	12.90	1000.60	13.46	1000.04	10.73	1002.77	9.77	1003.73
MW-13A	1013.56	NM	NM	10.80	1002.76	12.94	1000.62	13.50	1000.06	10.78	1002.78	9.77	1003.79
MW-14	1017.28	11.97	1005.31	13.80	1003.48	15.89	1001.39	16.45	1000.83	13.64	1003.64	12.72	1004.56
MW-18D	1013.97	5.92	1008.05	10.80	1003.17	12.19	1001.78	13.46	1000.51	10.80	1003.17	9.96	1004.01
MW-19	1022.36	19.50	1002.86	20.96	1001.40	21.46	1000.90	23.92	998.44	21.66	1000.70	20.64	1001.72
MW-20	1022.45	21.02	1001.43	22.31	1000.14	24.11	998.34	24.79	997.66	23.08	999.37	22.63	999.82
MW-25	1022.82	25.59	997.23	27.30	995.52	28.85	993.97	29.50	993.32	27.85	994.97	26.48	996.34
MW-28R	1009.53	NM	NM	10.45	999.08	11.56	997.97	17.75	991.78	14.65	994.88	13.95	995.58
MW-29R	1010.07	10.92	999.15	12.54	997.53	13.29	996.78	14.32	995.75	10.70	999.37	11.79	998.28
MW-32	1019.19	17.20	1001.99	16.09	1003.10	16.78	1002.41	18.80	1000.39	15.91	1003.28	14.91	1004.28
MW-33	1029.73	25.30	1004.43	27.20	1002.53	29.24	1000.49	29.55	1000.18	27.34	1002.39	25.77	1003.96
MW-34	1015.40	NM	NM	11.90	1003.50	14.23	1001.17	14.92	1000.48	12.23	1003.17	11.12	1004.28
MW-35	1022.55	NM	NM	19.16	1003.39	21.31	1001.24	22.30	1000.25	20.79	1001.76	18.86	1003.69
MW-35A	1022.57	NM	NM	19.15	1003.42	21.31	1001.26	22.30	1000.27	20.80	1001.77	18.82	1003.75
MW-36	1015.16	NM	NM	12.22	1002.94	14.30	1000.86	14.90	1000.26	11.90	1003.26	11.19	1003.97
MW-37	1013.49	NM	NM	10.94	1002.55	13.31	1000.18	13.80	999.69	10.64	1002.85	10.20	1003.29
MW-37A	1013.69	9.34	1004.35	10.96	1002.73	13.15	1000.54	13.75	999.94	10.85	1002.84	10.05	1003.64
MW-38	1018.40	14.53	1003.87	15.70	1002.70	17.91	1000.49	19.65	998.75	16.76	1001.64	15.30	1003.10
MW-38A	1018.31	14.50	1003.81	15.70	1002.61	17.93	1000.38	18.92	999.39	16.64	1001.67	15.25	1003.06

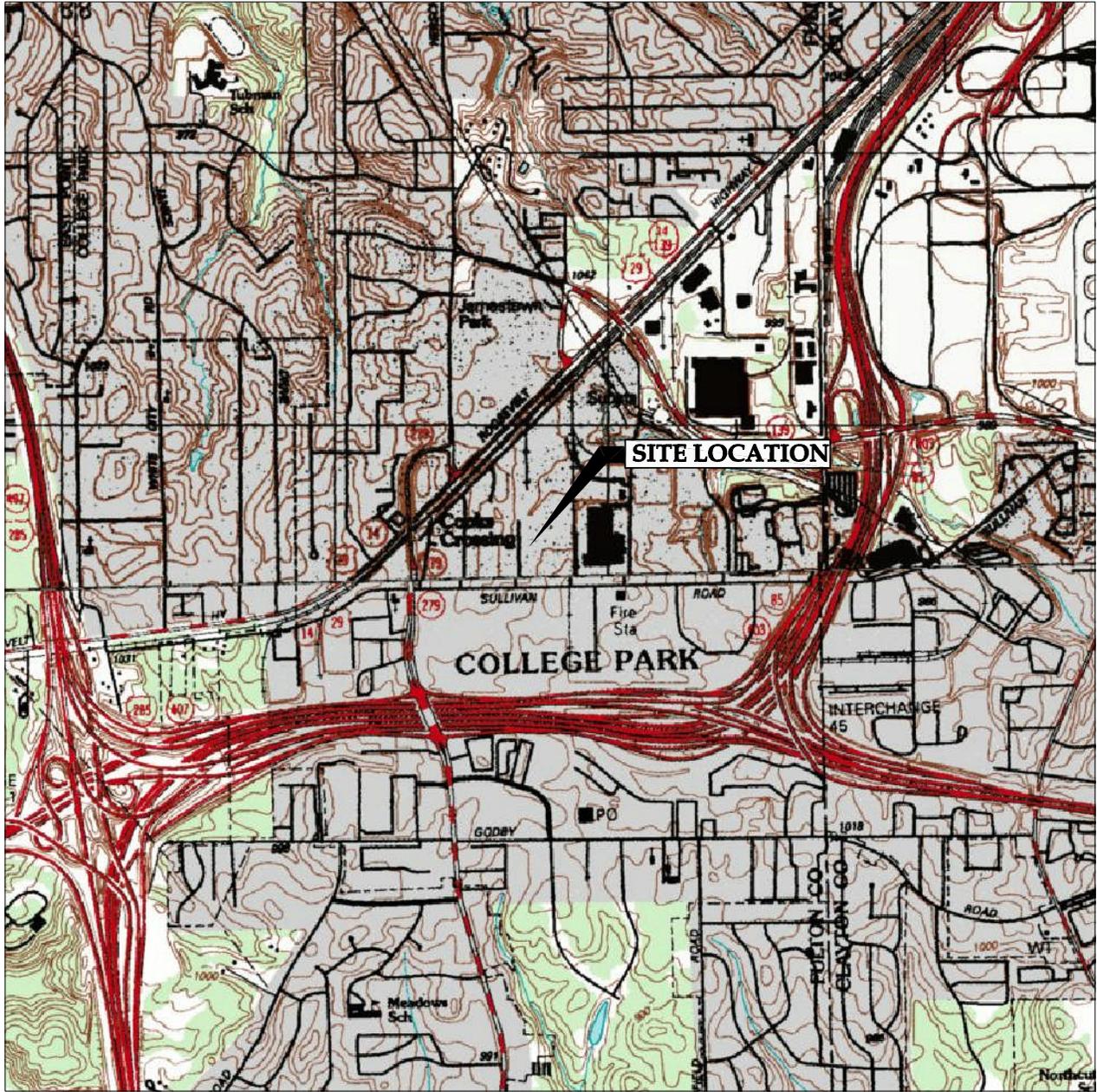
Table 4
VOCs in Ground Water Monitoring Wells
Former Dickies Industrial Services, Inc.
HSI Site No. 10127
ug/L

Existing Well ID	Date Installed	Date Sampled	Detected Compound (ug/L)						
			PCE	TCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	VC	1,4-Dioxane
MW-1	10/16/1990	10/20/2010	20,000	400	< 5	1,300	20	11	< 150
MW-2	10/17/1990	10/20/2010	64	9.2	< 5	23	< 5	< 2	< 150
MW-4	6/26/1987	10/20/2010	1700	49	< 5	190	< 5	< 2	< 150
MW-8	3/14/1991	10/23/2009	< 2	< 2	< 2	< 2	< 2	< 2	< 500
MW-9	8/26/1992	10/21/2010	20	< 5	< 5	< 5	< 5	< 2	< 150
MW-9A (converted to AS-13 4/2/03)	8/27/1992	9/10/2002	350	19	< 2	53	< 2	< 2	NA
MW-10	8/26/1992	10/20/2010	210	11	< 5	14	< 5	< 2	< 150
MW-10A	8/31/1992	10/20/2010	1,100	98	< 5	270	< 5	< 2	< 150
MW-12 (converted to SVE-4 4/2/03)	9/1/1992	10/18/2010	22	< 5	< 5	23	< 5	< 2	< 150
MW-13	9/1/1992	10/19/2010	120	10	< 5	6.6	< 5	< 2	< 150
MW-13A	9/2/1992	10/19/2010	18	< 5	< 5	< 5	< 5	< 2	< 150
MW-14	9/4/1992	10/19/2010	10	< 5	< 5	< 5	< 5	< 2	< 150
MW-18D	10/29/1998	10/19/2010	< 5	< 5	< 5	< 5	< 5	< 2	< 150
MW-19	11/24/1998	10/14/2010	< 5	< 5	< 5	< 5	< 5	< 2	< 150
MW-20	11/24/1998	10/14/2010	74	9.7	< 5	400	< 5	< 2	< 150
MW-21 (closed 6/2/2003)	11/30/1998	3/3/2003	< 2	< 2	< 2	< 2	< 2	< 2	NA
MW-22 (closed 6/2/2003)	12/1/1998	9/4/2002	< 2	< 2	< 2	< 2	< 2	< 2	NA
MW-25	3/10/1999	10/14/2010	110	6.2	< 5	23	< 5	< 2	< 150
MW-28/28R	9/6/2002	10/21/2010	< 5	< 5	< 5	16	< 5	3.1	< 150
MW-29/29R	9/5/2002	10/15/2010	< 5	< 5	< 5	< 5	< 5	< 2	< 150
MW-32	7/12/2000	10/18/2010	100	5.6	< 5	20	< 5	< 2	< 150
MW-33	7/11/2000	10/18/2010	< 5	< 5	< 5	< 5	< 5	< 2	< 150
MW-34	9/4/2002	10/19/2010	< 5	< 5	< 5	< 5	< 5	< 2	< 150
MW-35	9/5/2002	10/15/2010	< 5	< 5	< 5	< 5	< 5	< 2	< 150
MW-35A	9/5/2002	10/15/2010	< 5	< 5	< 5	< 5	< 5	< 2	< 150
MW-36	9/5/2002	10/15/2010	< 5	< 5	< 5	< 5	< 5	< 2	< 150
MW-37	9/6/2002	10/21/2010	22	< 5	< 5	7.8	< 5	< 2	< 150
MW-37A	9/6/2002	10/15/2010	< 5	< 5	< 5	110	< 5	2.6	< 150
MW-38	9/4/2002	10/18/2010	< 5	< 5	< 5	< 5	< 5	< 2	< 150
MW-38A	9/4/2002	10/18/2010	< 5	< 5	8.6	3,800	< 5	13	< 150
MW-39	2/18/2011	2/23/2011	< 5	< 5	< 5	< 5	< 5	< 2	< 150

Notes:

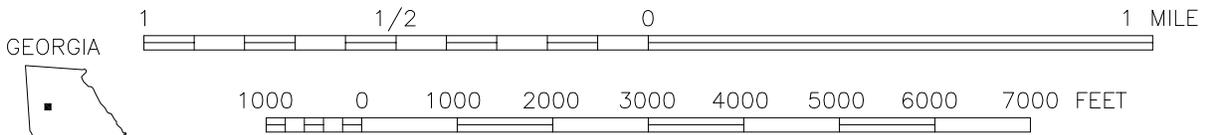
NA = Not Analyzed

Figures



SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC QUADRANGLE: SOUTHWEST ATLANTA, GA - 1995.

SCALE 1:24000



QUADRANGLE LOCATION

CONTOUR INTERVAL 10 FEET

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



121103Site1.DWG 3/18/11 SPV REV 3/24/11



**Environmental
 Resources
 Management**

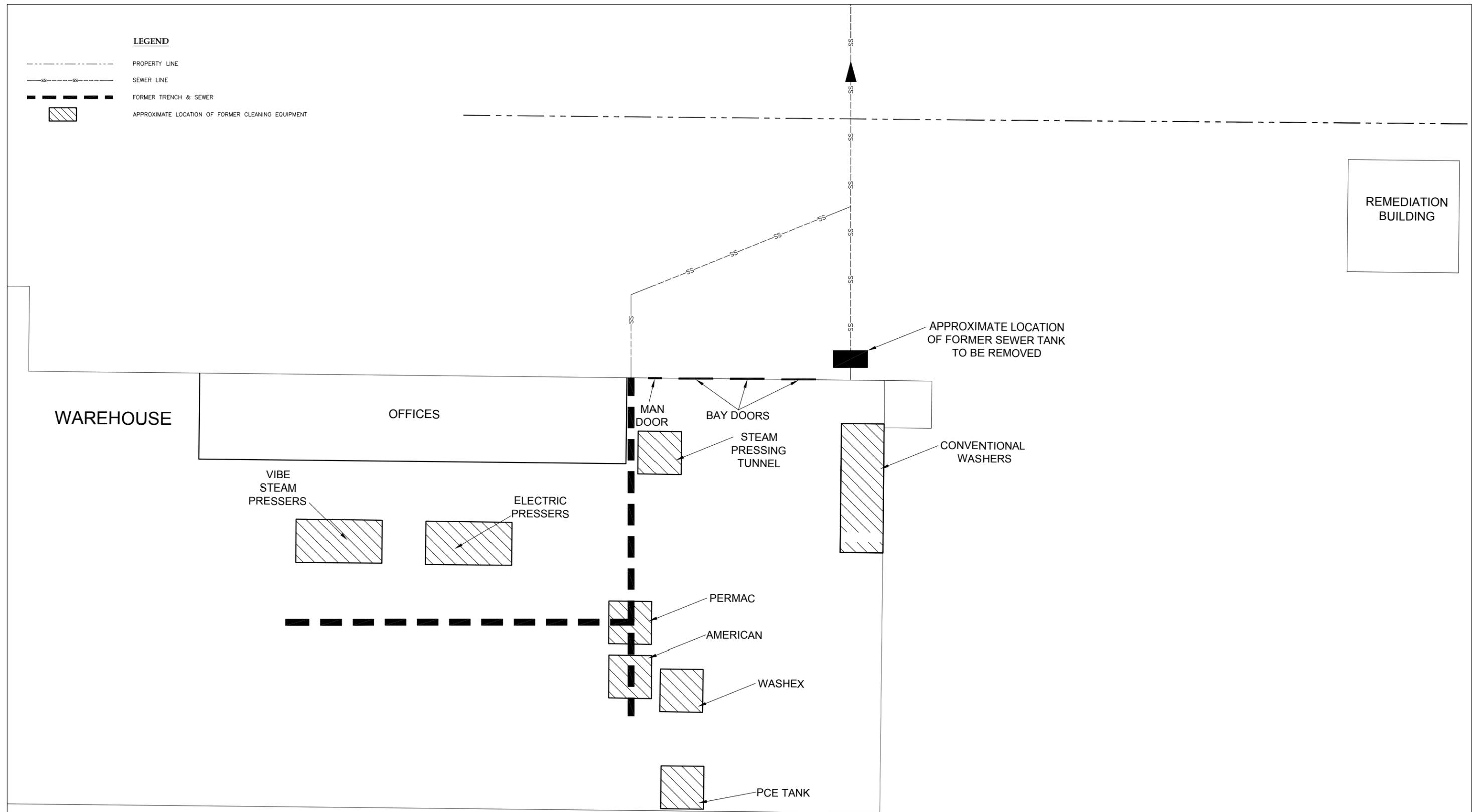
**SITE LOCATION MAP
 VOLUNTARY COMPLIANCE STATUS REPORT
 FORMER DICKIES INDUSTRIAL SERVICES, INC.
 COLLEGE PARK, GEORGIA**

FIGURE

1

LEGEND

- PROPERTY LINE
- SS--- SEWER LINE
- FORMER TRENCH & SEWER
-  APPROXIMATE LOCATION OF FORMER CLEANING EQUIPMENT



REMEDIATION BUILDING

WAREHOUSE

OFFICES

APPROXIMATE LOCATION OF FORMER SEWER TANK TO BE REMOVED

MAN DOOR

BAY DOORS

STEAM PRESSING TUNNEL

CONVENTIONAL WASHERS

VIBE STEAM PRESSERS

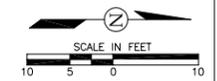
ELECTRIC PRESSERS

PERMAC

AMERICAN

WASHEX

PCE TANK



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

VOLUNTARY COMPLIANCE STATUS REPORT
 FORMER DICKIES INDUSTRIAL SERVICES, INC. COLLEGE PARK, GEORGIA
 DRAWN BY S. VIZUETE PROJECT ENGINEER S. THOMPSON
 DESIGN ENGINEER L. DORMAN PROJECT MANAGER S. THOMPSON



LOCATION OF FORMER OPERATIONS
 SCALE AS NOTED DATE MARCH 18, 2011
 PROJECT NO. 121103 AutoCAD 2007 101103Site2.DWG

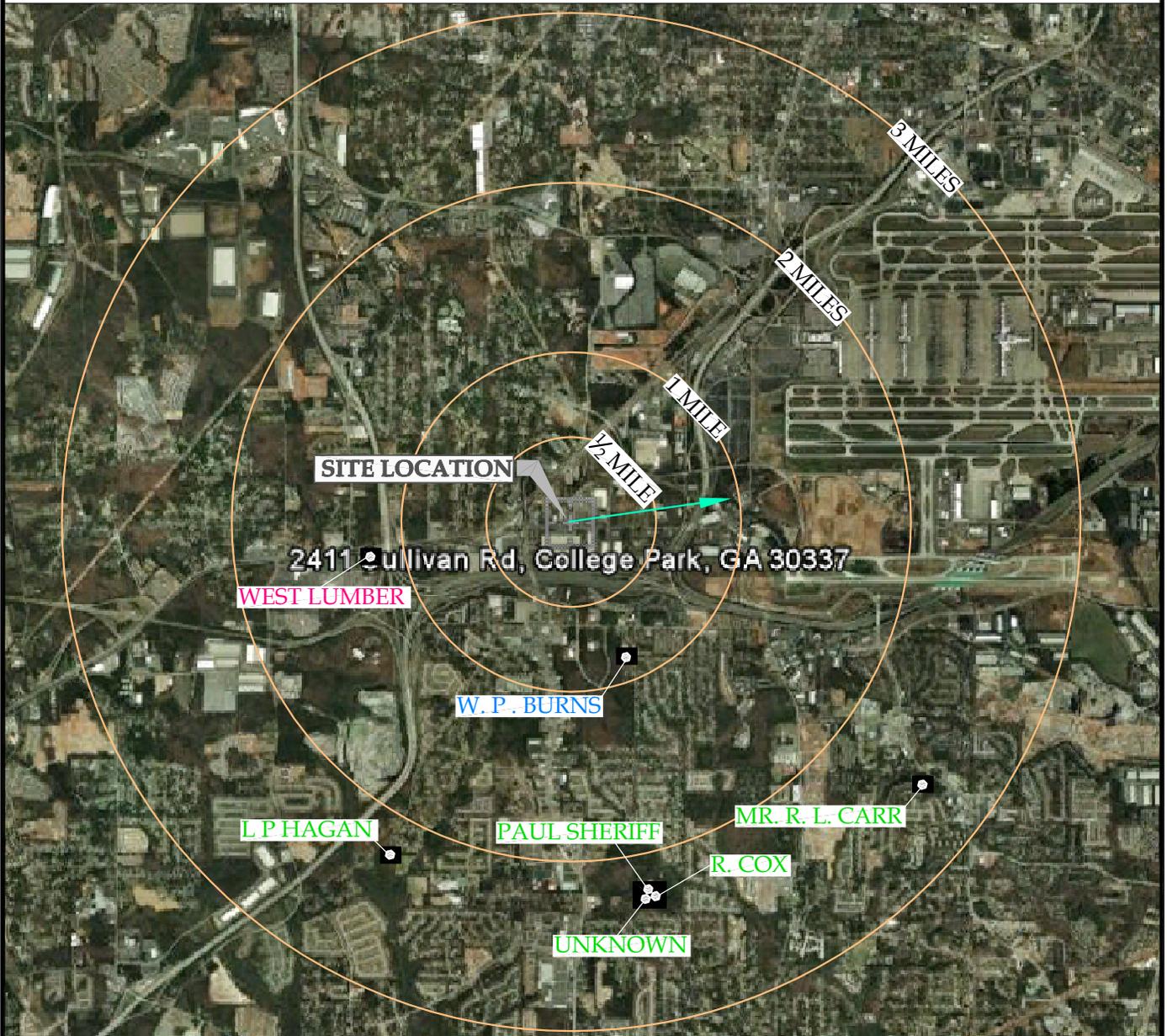
DRAWING NO. **2**
 REV. NO. **0**
 SHEET **1** OF **1**

121103Site2.DWG 3/18/11 SPV REV

LEGEND

- WEST LUMBER COMMERCIAL WELL
- PAUL SHERIFF HOUSEHOLD WELL
- W. P. BURNS UNUSED WELL

APPARENT DIRECTION OF GROUND WATER FLOW FROM HSI #10127



121103Site3.DWG 3/18/11 SPV REV



**Environmental
Resources
Management**

**GROUND WATER RECEPTOR MAP
VOLUNTARY COMPLIANCE STATUS REPORT
FORMER DICKIES INDUSTRIAL SERVICES, INC.
COLLEGE PARK, GEORGIA**

FIGURE

3

LEGEND

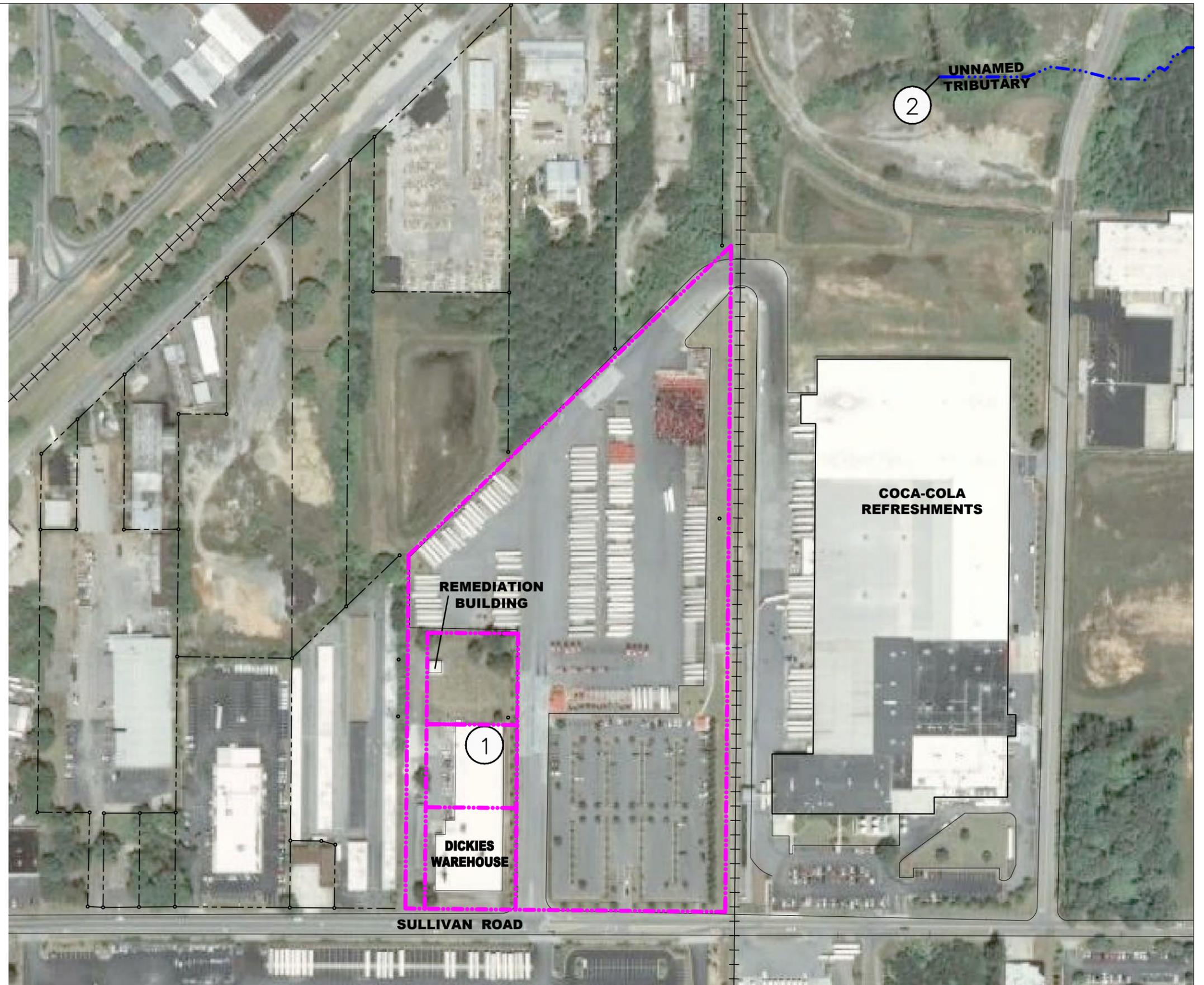
- - - - - UNNAMED SURFACE WATER FEATURE AS MAPPED ON USGS 7.5 MIN. TOPO QUAD SOUTHWEST ATLANTA, GA 1983
- RAIL ROAD
- PROPERTY BOUNDARY
- PROPERTY BOUNDARY FOR VRP PARTICIPANT
- ① DISTANCE REFERENCE POINT

NOTE: REFERENCE POINTS AND DESCRIPTION

- ① GENERAL AREA OF RELEASE
- ② HEADWORK OF USGS MAPPED SURFACE WATER FEATURE (BLUE-LINE STREAM)
- ③ CONFLUENCE WITH FLINT RIVER (NOT SHOWN ON THIS FIGURE)

DISTANCES FROM POINT OF RELEASE:

- ①-② 1,780 FT.
- ②-③ 24,000 FT. (4.5 MILES ±)
- ①-③ 4.9 MILES ±



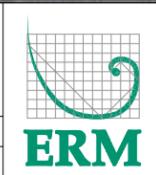
121103Site4.dwg 3/22/11

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

VOLUNTARY COMPLIANCE STATUS REPORT

FORMER DICKIES INDUSTRIAL SERVICES COLLEGE PARK, GEORGIA

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



NOT FOR CONSTRUCTION

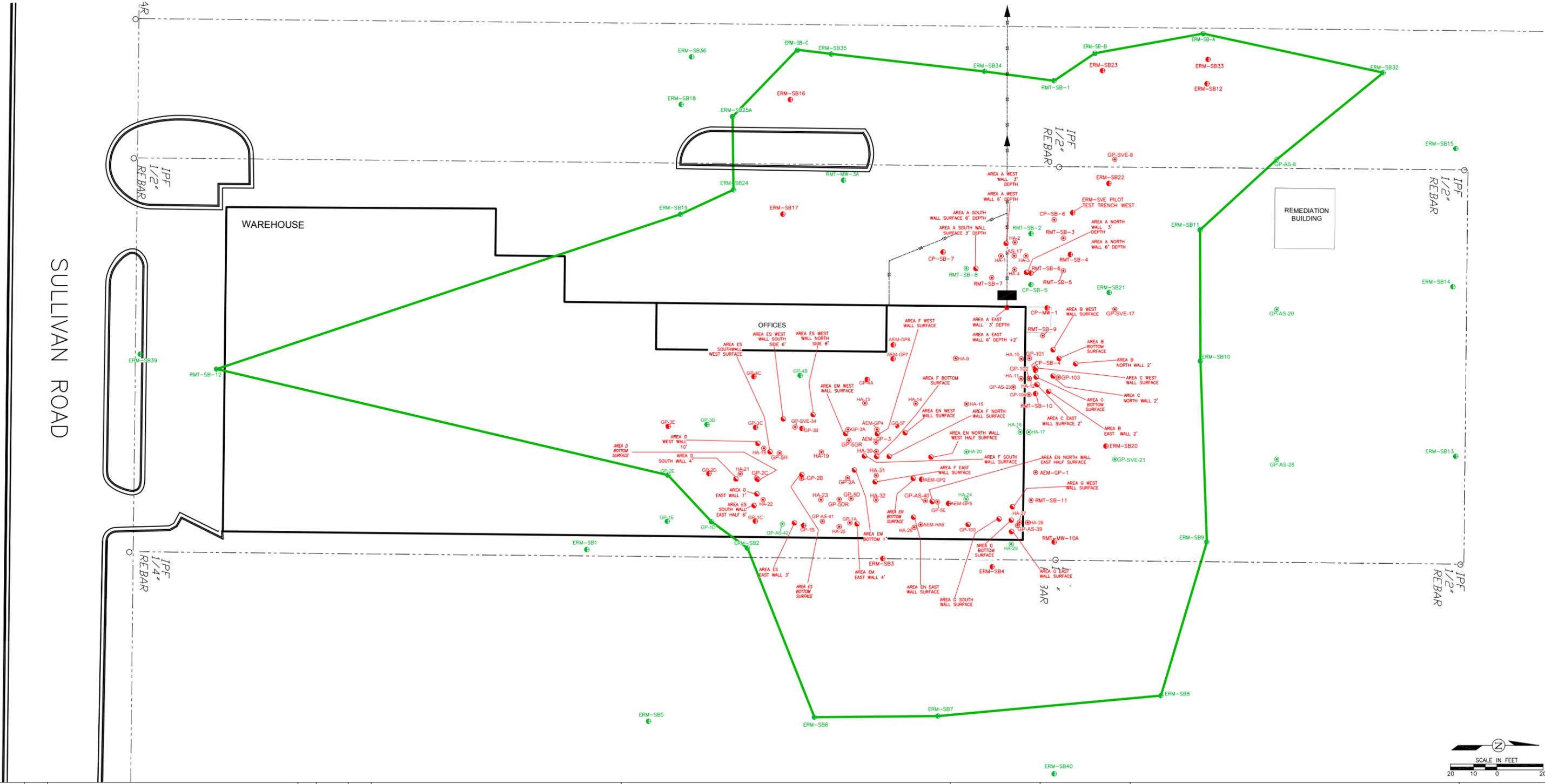
SURFACE WATER RECEPTOR MAP

SCALE AS NOTED	DATE MARCH 22, 2011
PROJECT NO. 121103	AutoCAD 2007 121103Site4.DWG

ATTACHMENT 4
REV. NO. 0
SHEET 1 OF 1

LEGEND

- AREA ES EAST WALL 3' SAMPLE COLLECTED AFTER THE 2010 SOIL EXCAVATION - COMPOUND WAS DETECTED BELOW THE DETECTION LIMIT
- AREA B BOTTOM SURFACE SAMPLE COLLECTED AFTER THE 2010 SOIL EXCAVATION - COMPOUND WAS DETECTED ABOVE THE DETECTION LIMIT (BUT BELOW TYPE 4 RRS)
- HA-20 SAMPLE COLLECTED BETWEEN JANUARY 2000 AND JANUARY 2010 - COMPOUND WAS DETECTED BELOW THE DETECTION LIMIT
- HA-31 SAMPLE COLLECTED BETWEEN JANUARY 2000 AND JANUARY 2010 - COMPOUND WAS DETECTED ABOVE THE DETECTION LIMIT
- GP-3D SAMPLE COLLECTED BETWEEN 1990 AND 1999 - COMPOUND WAS DETECTED BELOW THE DETECTION LIMIT
- GP-3E SAMPLE COLLECTED BETWEEN 1990 AND 1999 - COMPOUND WAS DETECTED ABOVE THE DETECTION LIMIT
- PROPERTY LINE
- SEWER LINE
- DELINEATION BOUNDARY



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

VOLUNTARY COMPLIANCE STATUS REPORT

FORMER DICKIES INDUSTRIAL SERVICES, INC. COLLEGE PARK, GEORGIA
 DRAWN BY S. VIZUETE PROJECT ENGINEER S. THOMPSON
 DESIGN ENGINEER L. DORMAN PROJECT MANAGER S. THOMPSON



NOT FOR CONSTRUCTION

**SOIL DELINEATION MAP
TETRACHLOROETHENE IN SOIL (1990 - 2010)**

SCALE AS NOTED DATE MARCH 1, 2011
 PROJECT NO. 121103 AutoCAD 2007 121103Site5.DWG

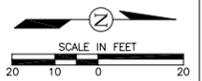
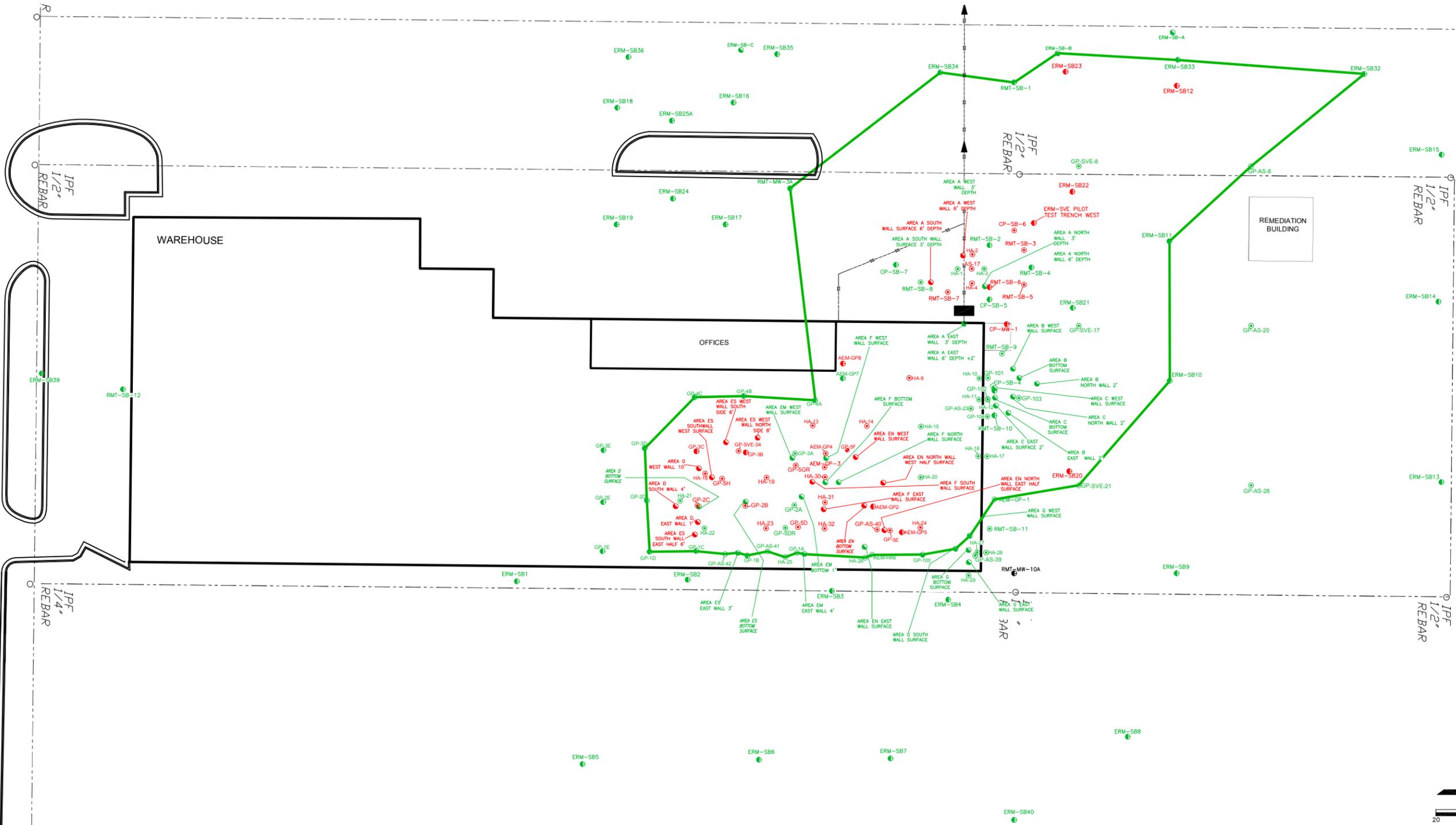
DRAWING NO.	5
REV. NO.	0
SHEET	1 OF 1

121103Site5.DWG 3/9/11 SPV REV. 3/24/11

LEGEND

- AREA ES EAST WALL 3'
- HA-20
- GP-3D
- PROPERTY LINE
- SEWER LINE

- RMT-MW-10A NOT ANALYZED
- AREA B BOTTOM SURFACE
- HA-31
- GP-3E
- DELINEATION BOUNDARY



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

VOLUNTARY COMPLIANCE STATUS REPORT

FORMER DICKIES INDUSTRIAL SERVICES, INC. COLLEGE PARK, GEORGIA

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



NOT FOR CONSTRUCTION

SOIL DELINEATION MAP
TRICHLOROETHENE IN SOIL (1990 - 2010)

SCALE AS NOTED	DATE MARCH 9, 2011
PROJECT NO. 121103	AutoCAD 2007 121103Site6.DWG

DRAWING NO.
6

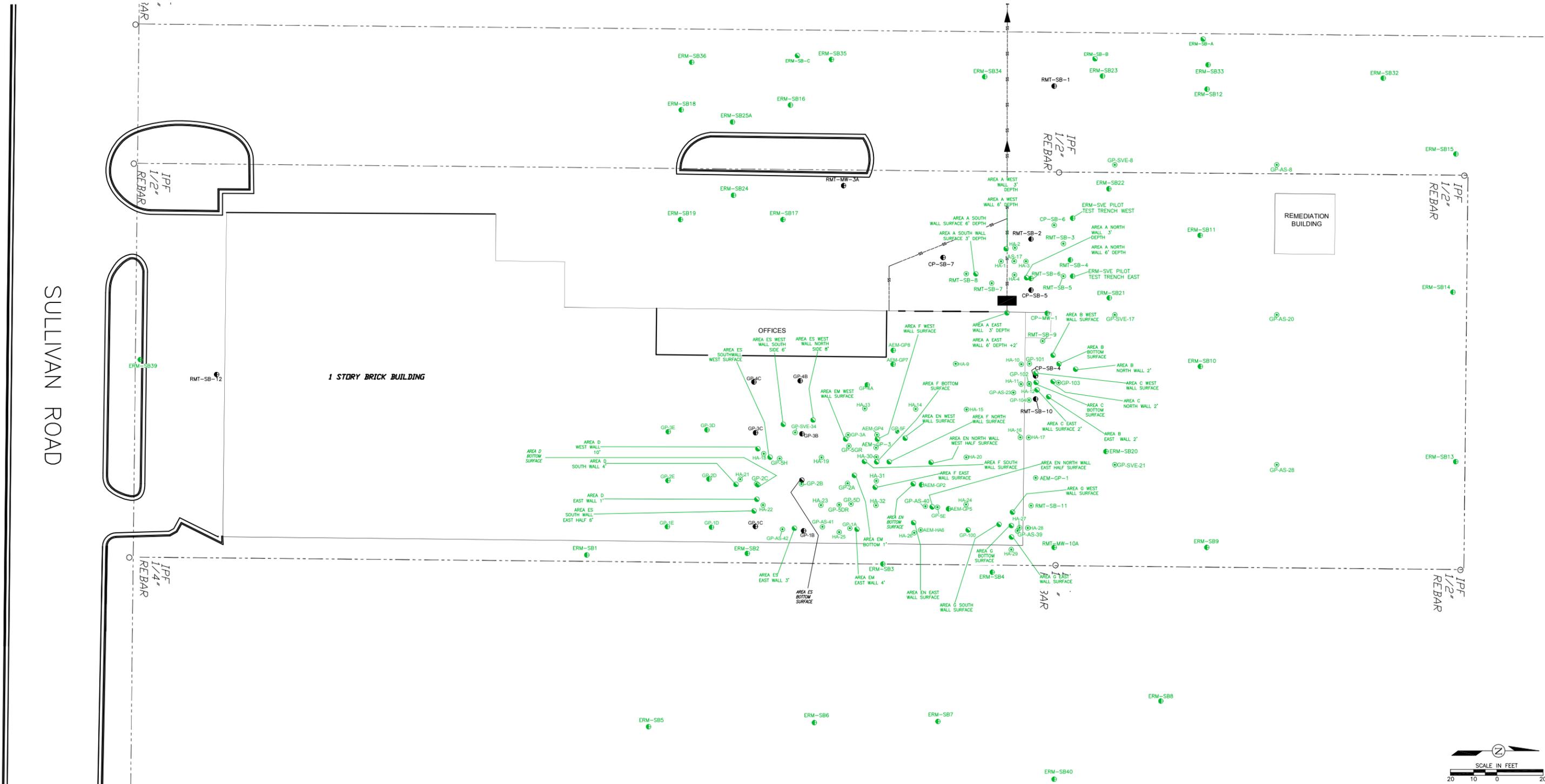
REV. NO.
0

SHEET **1** OF **1**

121103Site6.DWG 3/9/11 REV 3/24/11

LEGEND

- AREA ES EAST WALL 3' SAMPLE COLLECTED AFTER THE 2010 SOIL EXCAVATION - COMPOUND WAS DETECTED BELOW THE DETECTION LIMIT
- AREA B BOTTOM SURFACE SAMPLE COLLECTED AFTER THE 2010 SOIL EXCAVATION - COMPOUND WAS DETECTED ABOVE THE DETECTION LIMIT (BUT BELOW TYPE 4 RRS)
- HA-20 SAMPLE COLLECTED BETWEEN JANUARY 2000 AND JANUARY 2010 - COMPOUND WAS DETECTED BELOW THE DETECTION LIMIT
- HA-31 SAMPLE COLLECTED BETWEEN JANUARY 2000 AND JANUARY 2010 - COMPOUND WAS DETECTED ABOVE THE DETECTION LIMIT
- GP-3D SAMPLE COLLECTED BETWEEN 1990 AND 1999 - COMPOUND WAS DETECTED BELOW THE DETECTION LIMIT
- GP-3E SAMPLE COLLECTED BETWEEN 1990 AND 1999 - COMPOUND WAS DETECTED ABOVE THE DETECTION LIMIT
- PROPERTY LINE
- SEWER LINE
- RMT-MW-10A NOT ANALYZED



121103Site7.DWG 3/9/11 3PM REV 5/21/11

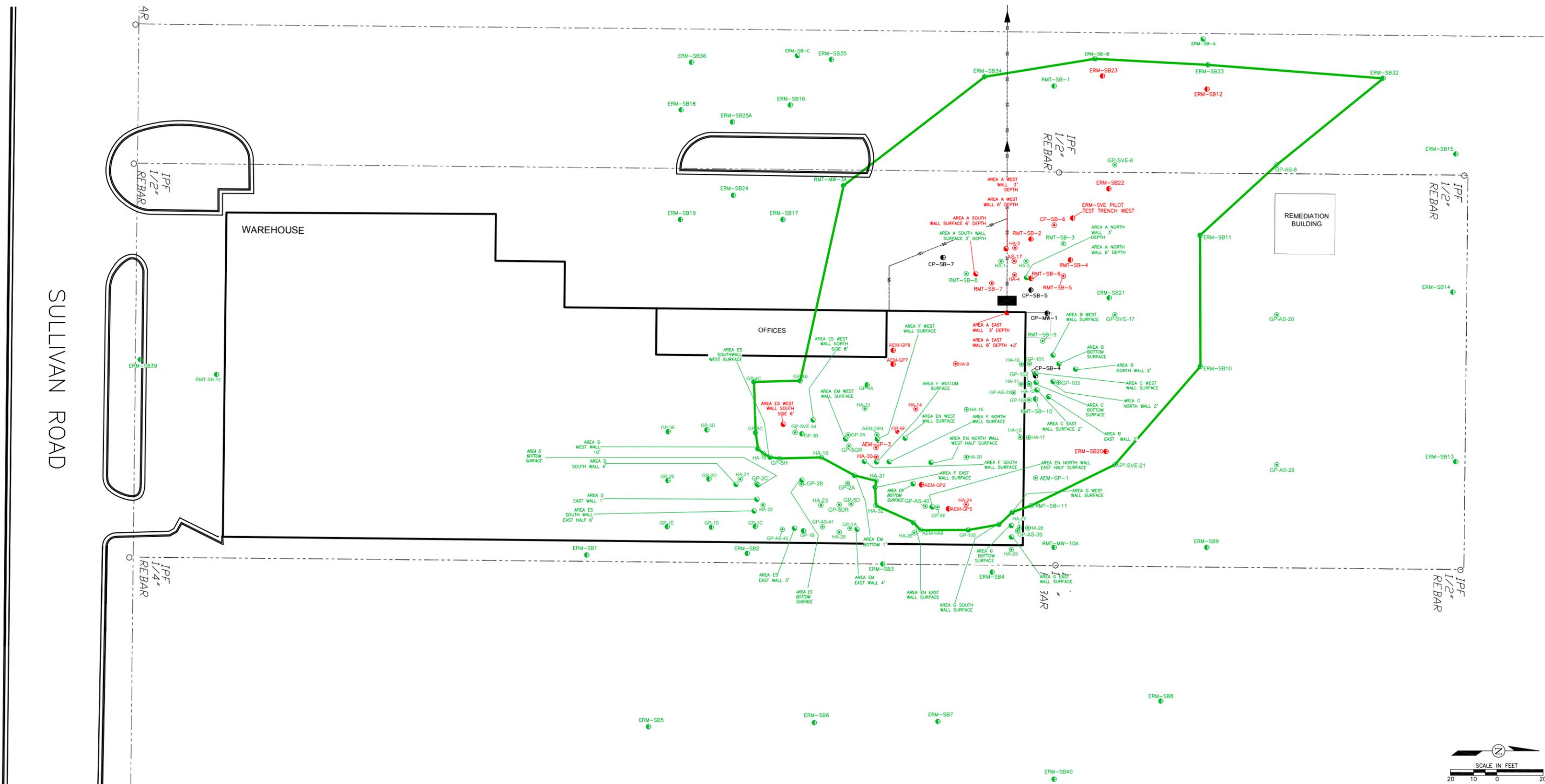
NO.	DATE	APPR.	REVISION	NO.	DATE	APPR.	REVISION

VOLUNTARY COMPLIANCE STATUS REPORT		 NOT FOR CONSTRUCTION	SOIL DELINEATION MAP		DRAWING NO. 7
FORMER DICKIES INDUSTRIAL SERVICES, INC. COLLEGE PARK, GEORGIA			1,1-DICHLOROETHENE IN SOIL (1990 - 2010)		REV. NO. 0
DRAWN BY S. VIZUETE DESIGN ENGINEER L. DORMAN	PROJECT ENGINEER S. THOMPSON PROJECT MANAGER S. THOMPSON	SCALE AS NOTED PROJECT NO. 121103	DATE MARCH 9, 2011 AutoCAD 2007 121103Site7.DWG	SHEET 1 OF 1	

LEGEND

- AREA ES EAST WALL 3'
- HA-20
- GP-3D
- PROPERTY LINE
- SEWER LINE

- RMT-MW-10A NOT ANALYZED
- AREA B BOTTOM SURFACE
- HA-31
- GP-3E
- SAMPLE COLLECTED AFTER THE 2010 SOIL EXCAVATION - COMPOUND WAS DETECTED ABOVE THE DETECTION LIMIT (BUT BELOW TYPE 4 RRS)
- SAMPLE COLLECTED BETWEEN JANUARY 2000 AND JANUARY 2010 - COMPOUND WAS DETECTED ABOVE THE DETECTION LIMIT
- SAMPLE COLLECTED BETWEEN 1990 AND 1999 - COMPOUND WAS DETECTED ABOVE THE DETECTION LIMIT
- DELINEATION BOUNDARY



121103SiteB.dwg 3/9/11

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

VOLUNTARY COMPLIANCE STATUS REPORT

FORMER DICKIES INDUSTRIAL SERVICES, INC. COLLEGE PARK, GEORGIA

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



NOT FOR CONSTRUCTION

SOIL DELINEATION MAP
CIS-1,2-DICHLOROETHENE IN SOIL (1990 - 2010)

SCALE AS NOTED	DATE MARCH 9, 2011
PROJECT NO. 1211103	AutoCAD 2007 121103SiteB.DWG

DRAWING NO. **8**

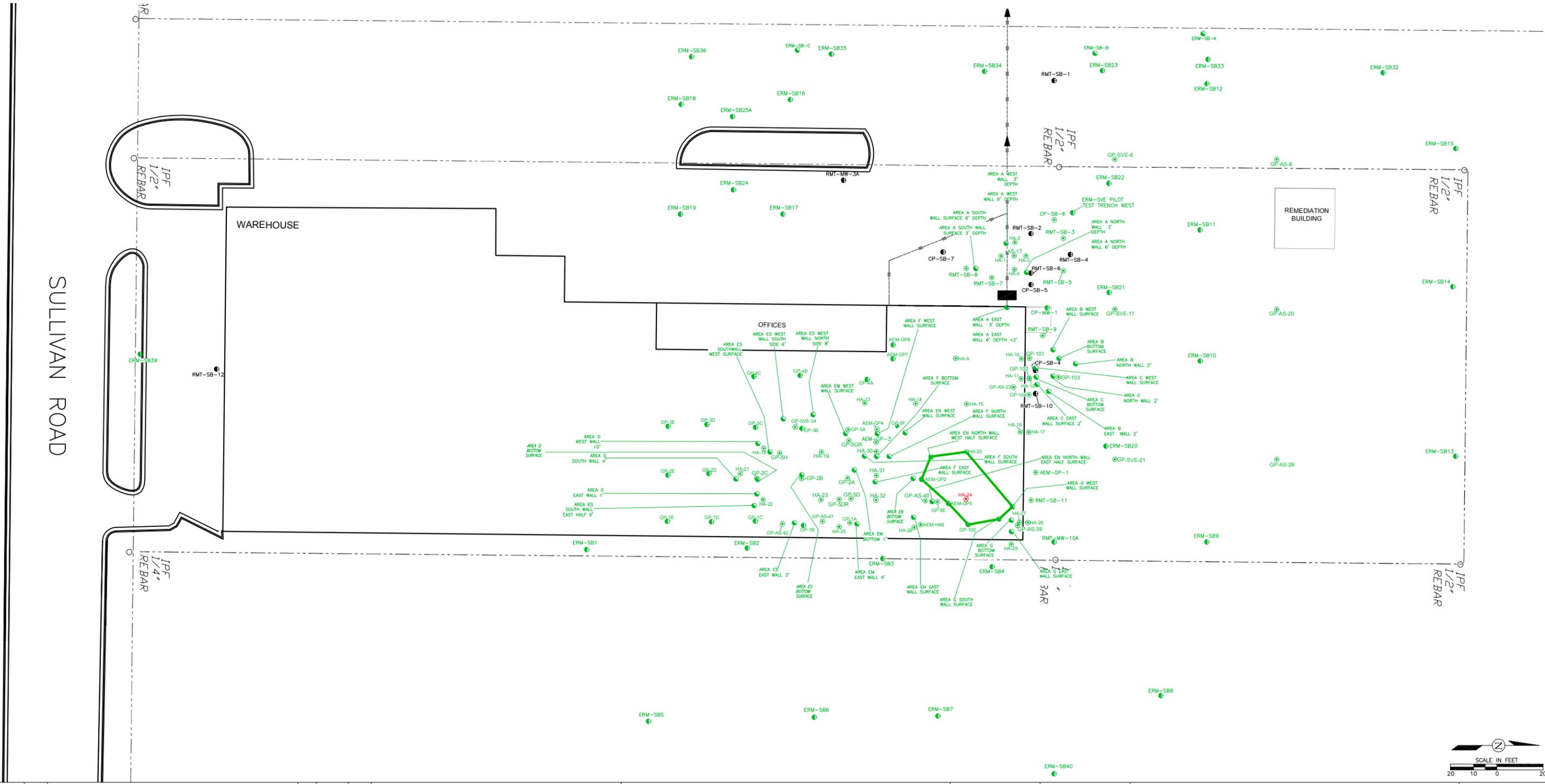
REV. NO. **0**

SHEET **1** OF **1**

LEGEND

- AREA ES EAST WALL 3'
- HA-20
- GP-3D
- PROPERTY LINE
- SS --- SEWER LINE

- RMT-MW-10A NOT ANALYZED
- AREA B BOTTOM SURFACE
- HA-31
- GP-3E
- SAMPLE COLLECTED AFTER THE 2010 SOIL EXCAVATION - COMPOUND WAS DETECTED ABOVE THE DETECTION LIMIT (BUT BELOW TYPE 4 RRS)
- SAMPLE COLLECTED BETWEEN JANUARY 2000 AND JANUARY 2010 - COMPOUND WAS DETECTED ABOVE THE DETECTION LIMIT
- SAMPLE COLLECTED BETWEEN 1990 AND 1999 - COMPOUND WAS DETECTED ABOVE THE DETECTION LIMIT
- DELINEATION BOUNDARY



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

VOLUNTARY COMPLIANCE STATUS REPORT

FORMER DICKIES INDUSTRIAL SERVICES, INC. COLLEGE PARK, GEORGIA

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



SOIL DELINEATION MAP
TRANS-1,2-DICHLOROETHENE IN SOIL (1990 - 2010)

SCALE AS NOTED	DATE MARCH 9, 2011
PROJECT NO. 121103	AutoCAD 2007 121103Site9.DWG

DRAWING NO. **9**

REV. NO. **0**

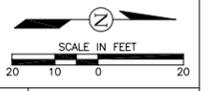
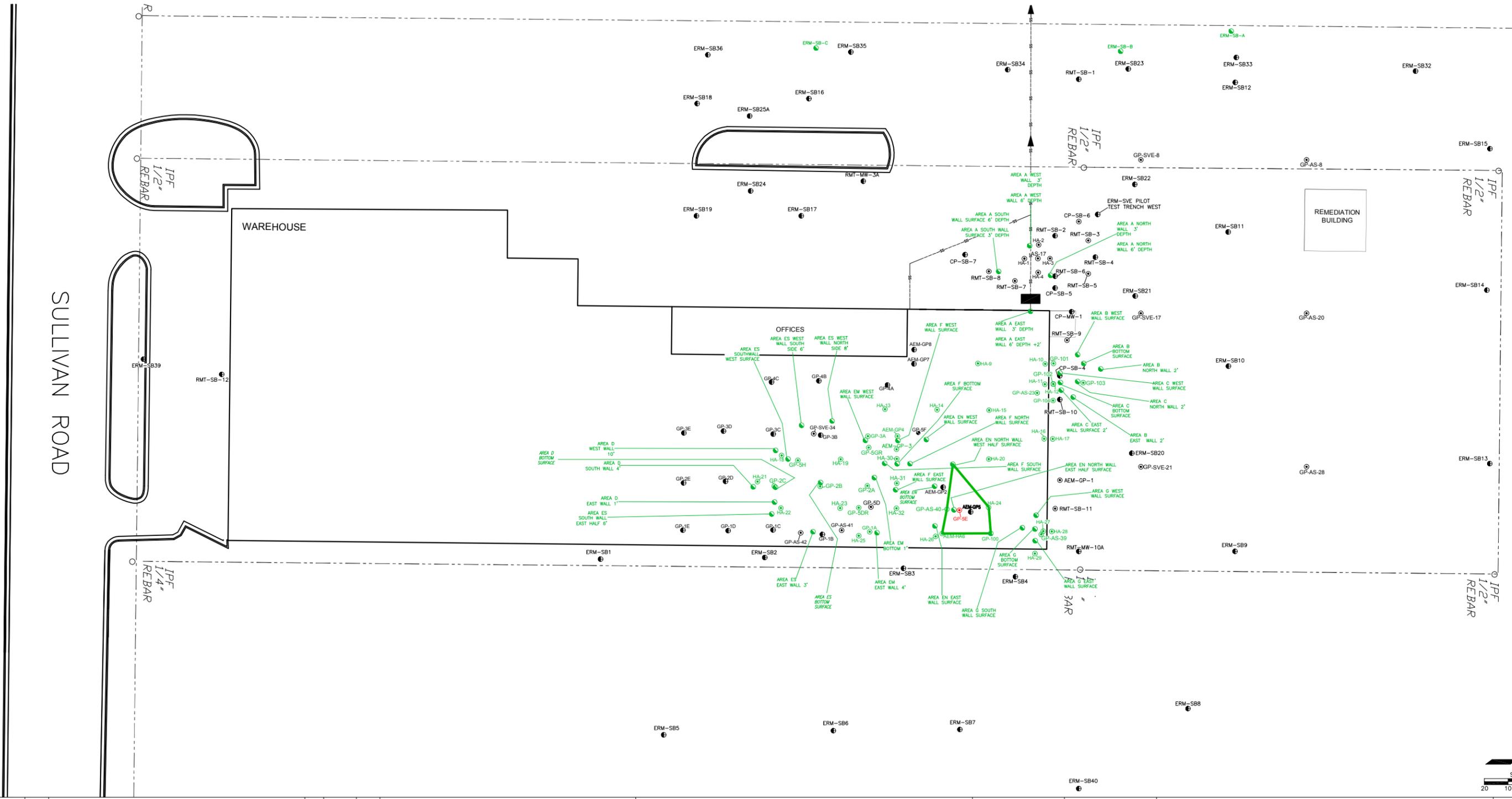
SHEET **1** OF **1**

121103Site9.DWG 3/9/11

LEGEND

- AREA ES EAST WALL 3'
- HA-20
- GP-3D
- PROPERTY LINE
- SS --- SEWER LINE

- RMT-MW-10A NOT ANALYZED
- AREA B BOTTOM SURFACE
- HA-31
- GP-3E
- SAMPLE COLLECTED AFTER THE 2010 SOIL EXCAVATION - COMPOUND WAS DETECTED ABOVE THE DETECTION LIMIT (BUT BELOW TYPE 4 RRS)
- SAMPLE COLLECTED BETWEEN JANUARY 2000 AND JANUARY 2010 - COMPOUND WAS DETECTED ABOVE THE DETECTION LIMIT
- SAMPLE COLLECTED BETWEEN 1990 AND 1999 - COMPOUND WAS DETECTED ABOVE THE DETECTION LIMIT
- DELINEATION BOUNDARY



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

VOLUNTARY COMPLIANCE STATUS REPORT

FORMER DICKIES INDUSTRIAL SERVICES, INC. COLLEGE PARK, GEORGIA

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



SOIL DELINEATION MAP
1,4-DIOXANE IN SOIL (1990 - 2010)

SCALE AS NOTED DATE MARCH 9, 2011

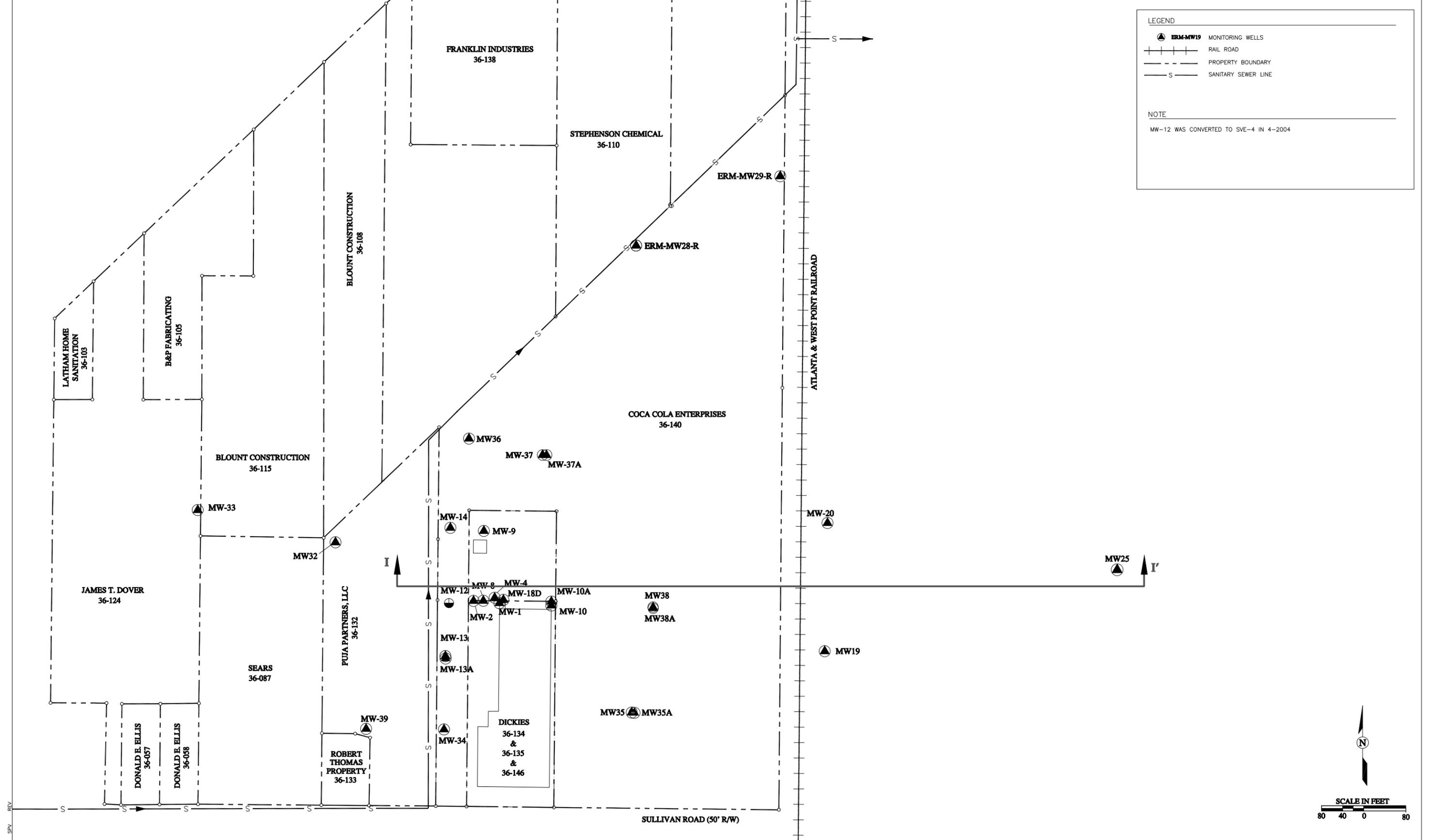
PROJECT NO. 121103 AutoCAD 2007 121103Site11.DWG

DRAWING NO. **11**

REV. NO. **0**

SHEET **1** OF **1**

121103Site11.DWG 3/9/11



LEGEND

- ERM-MW19 MONITORING WELLS
- RAIL ROAD
- PROPERTY BOUNDARY
- SANITARY SEWER LINE

NOTE

MW-12 WAS CONVERTED TO SVE-4 IN 4-2004



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

VOLUNTARY COMPLIANCE STATUS REPORT			NOT FOR CONSTRUCTION	MONITORING WELL LOCATIONS AND CROSS SECTION LOCATION		DRAWING NO. 12
FORMER DICKIES INDUSTRIAL SERVICES, INC. COLLEGE PARK, GEORGIA				REV. NO. 0		
SCALE	AS NOTED	DATE	MARCH 22, 2011	PROJECT NO.		121103
DRAWN BY S. VIZUETE		PROJECT ENGINEER S. THOMPSON		PROJECT NO.		121103
PROJECT SCIENTIST L. DORMAN		PROJECT MANAGER S. THOMPSON		DATE		MARCH 22, 2011
				AutoCAD 2007		121103Site12.DWG
				SHEET		1 OF 1

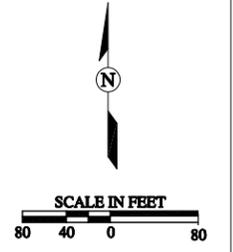
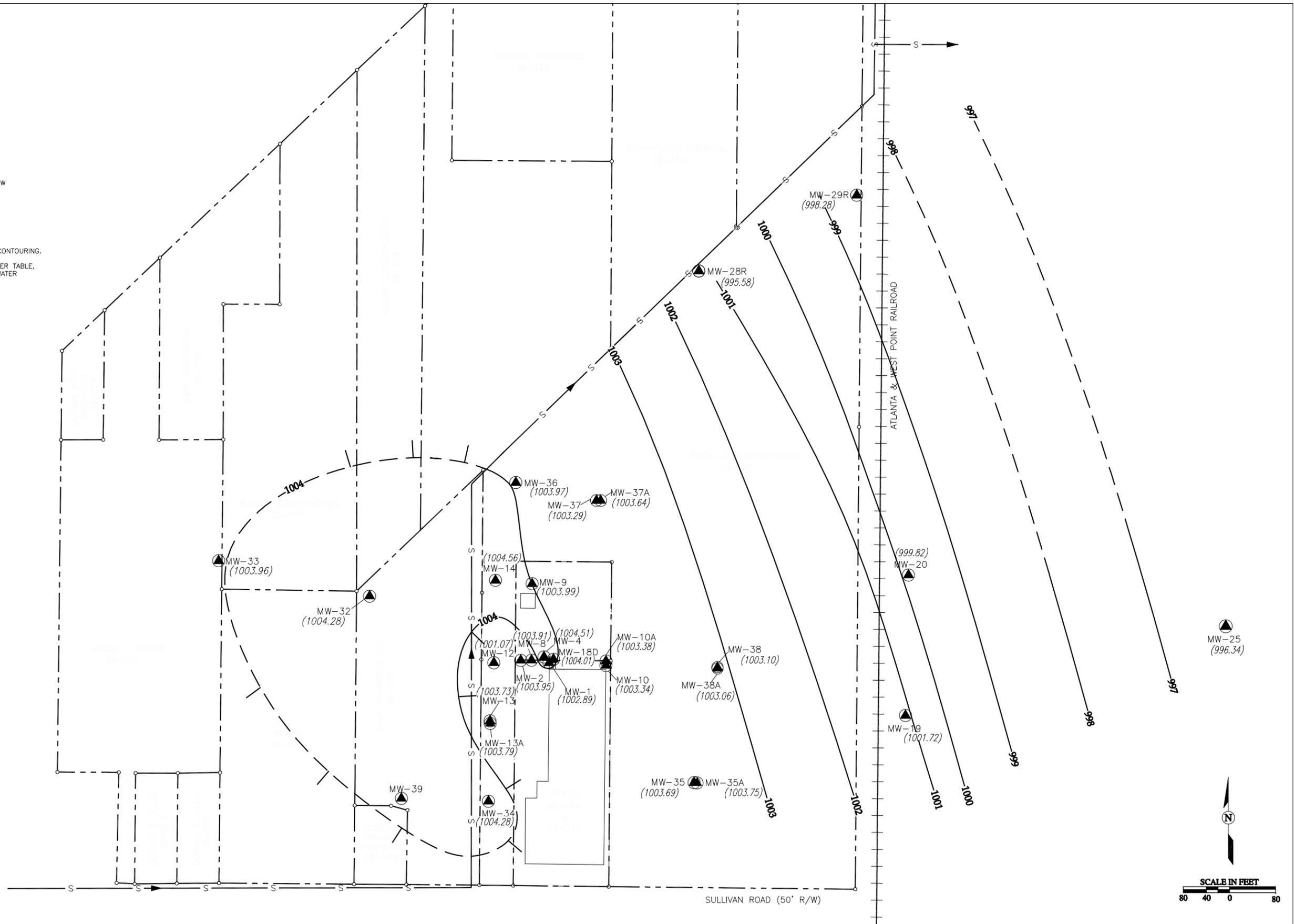
121103Site12.DWG 3/22/11 SPV

LEGEND

- ▲ ERM-MW-19 MONITORING WELLS
- +—+—+— RAIL ROAD
- - - - - PROPERTY BOUNDARY
- S— SANITARY SEWER LINE
- (1003.96) GROUND WATER ELEVATION
- 1003— GROUND WATER ELEVATION CONTOUR
- APPARENT DIRECTION OF GROUND WATER FLOW

NOTES

MW-1, MW-28-R, MW-37, AND MW-39 WERE NOT USED FOR CONTOURING.
 MW-28R AND MW-37 EXHIBITED LACTATE ON TOP OF THE WATER TABLE, WHICH WAS INJECTED PREVIOUSLY AS PART OF THE GROUND WATER REMEDIATION.



121103SiteF13-F20.DWG 3/22/11 SPV_REV

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

VOLUNTARY COMPLIANCE STATUS REPORT

FORMER DICKIES INDUSTRIAL SERVICES, INC. COLLEGE PARK, GEORGIA
 DRAWN BY S. VIZUETE PROJECT ENGINEER S. THOMPSON
 PROJECT SCIENTIST L. DORMAN PROJECT MANAGER S. THOMPSON



NOT FOR CONSTRUCTION

POTENTIOMETRIC SURFACE MAP - OCTOBER 2010

SCALE AS NOTED DATE MARCH 22, 2011
 PROJECT NO. 121103 AutoCAD 2007 121103SiteF13-F20.DWG

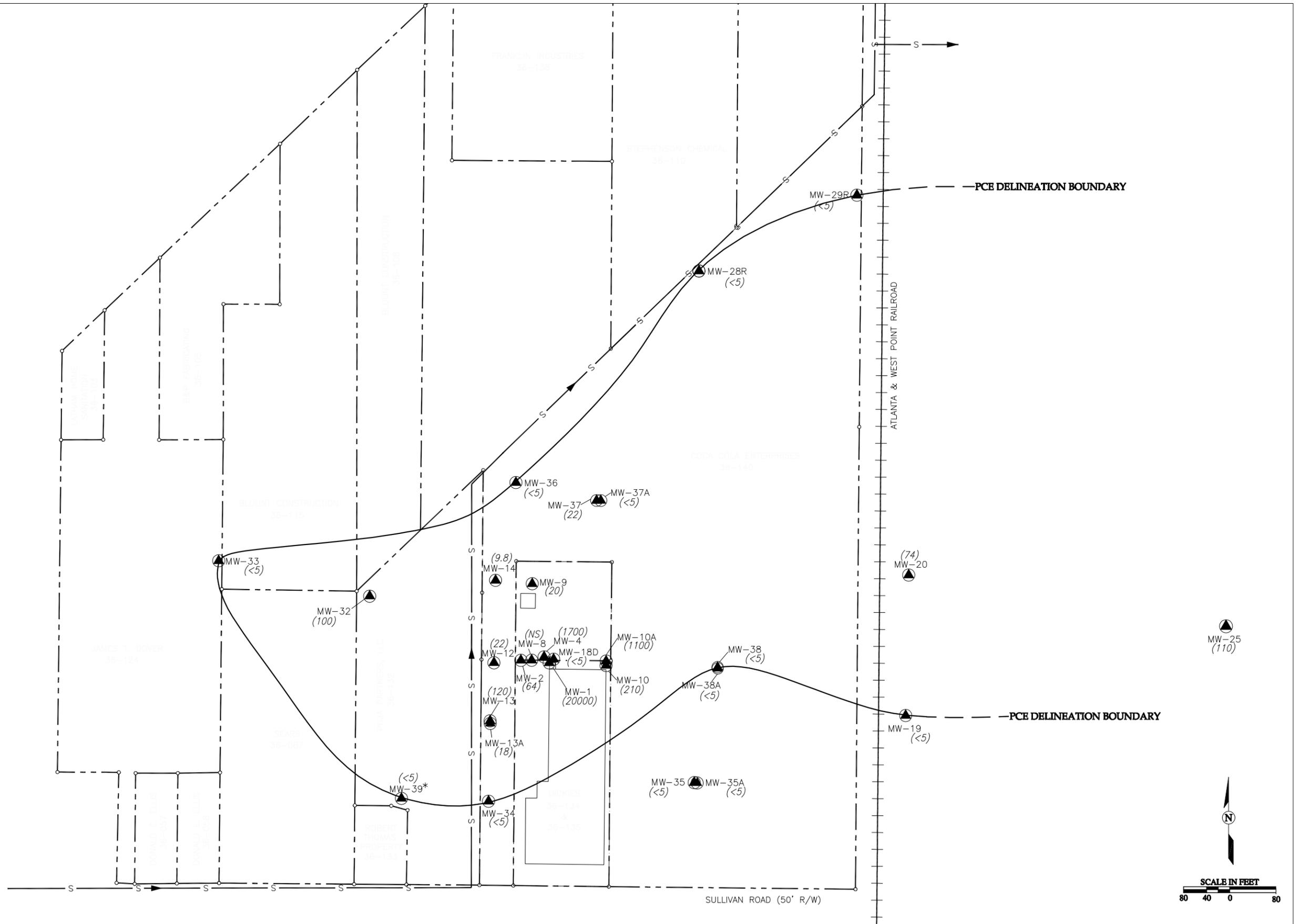
DRAWING NO.	13
REV. NO.	0
SHEET	1 OF 1

LEGEND

- ▲ ERM-MW-19 MONITORING WELLS
- +—+—+— RAIL ROAD
- - - - - PROPERTY BOUNDARY
- S — SANITARY SEWER LINE
- PCE DELINEATION BOUNDARY

NOTES

MW-12 WAS CONVERTED TO SVE-4 IN 4-2004.
 GROUNDWATER SAMPLING RESULTS FROM OCTOBER 2010.
 RESULTS ARE SHOWN IN $\mu\text{g/L}$.
 *MW-39 GROUNDWATER RESULTS FROM MARCH 2011

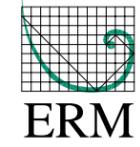


121103SiteF13-F20.DWG 3/22/11 SPV_REV

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

VOLUNTARY COMPLIANCE STATUS REPORT

FORMER DICKIES INDUSTRIAL SERVICES, INC. COLLEGE PARK, GEORGIA
 DRAWN BY S. VIZUETE PROJECT ENGINEER S. THOMPSON
 PROJECT SCIENTIST L. DORMAN PROJECT MANAGER S. THOMPSON



NOT FOR CONSTRUCTION

TETRACHLOROETHENE IN GROUNDWATER

SCALE AS NOTED DATE MARCH 22, 2011
 PROJECT NO. 121103 AutoCAD 2007 121103SiteF13-F20.DWG

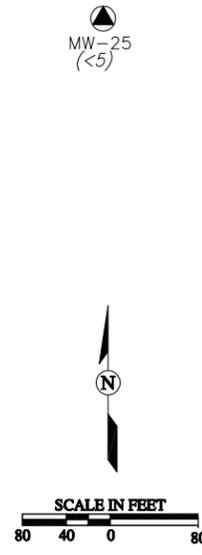
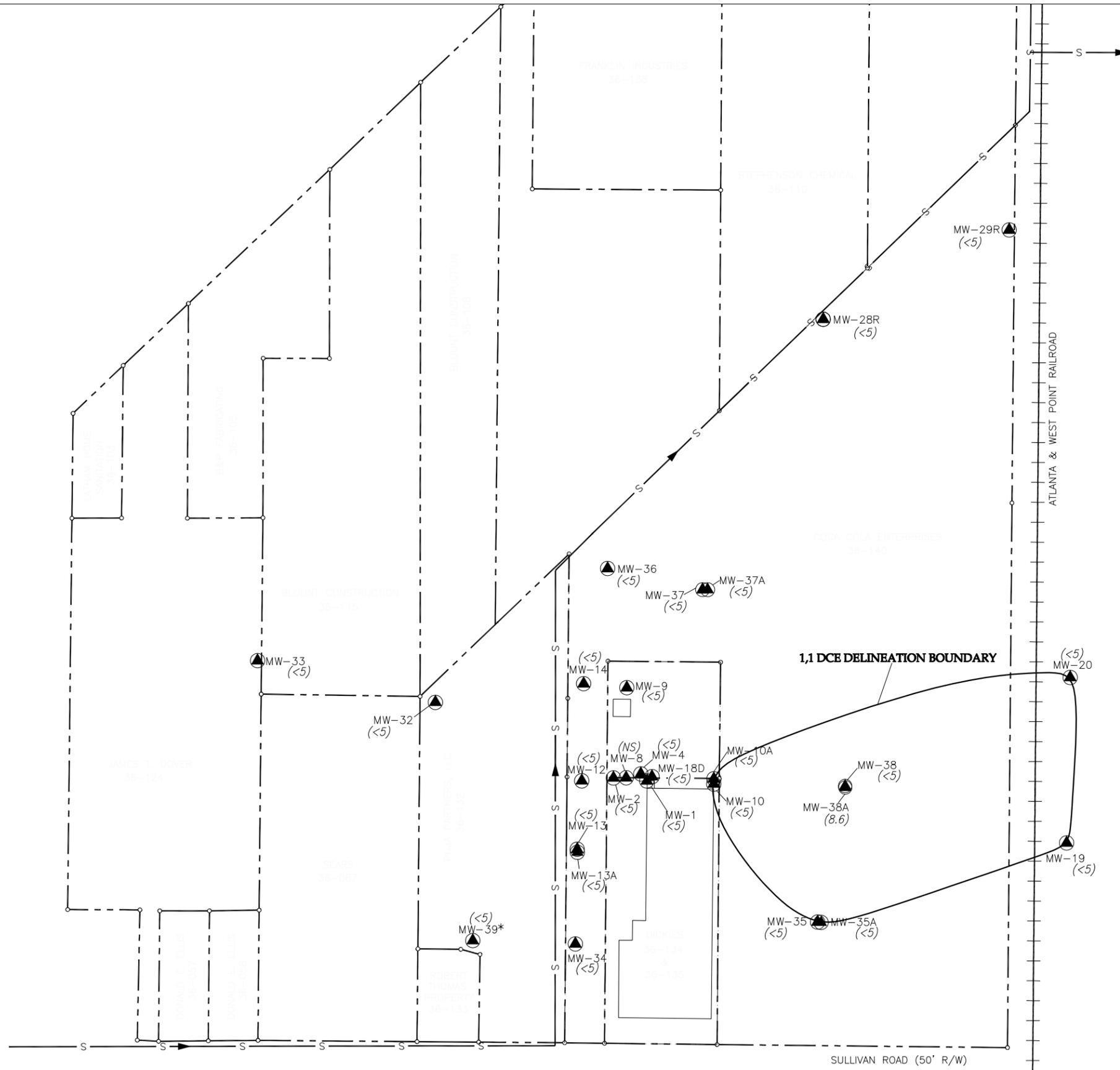
DRAWING NO.	14
REV. NO.	0
SHEET	1 OF 1

LEGEND

- ▲ ERM-MW-19 MONITORING WELLS
- +—+—+— RAIL ROAD
- - - - - PROPERTY BOUNDARY
- S— SANITARY SEWER LINE
- 1,1 DCE DELINEATION BOUNDARY

NOTES

MW-12 WAS CONVERTED TO SVE-4 IN 4-2004.
 GROUNDWATER SAMPLING RESULTS FROM OCTOBER 2010.
 RESULTS ARE SHOWN IN $\mu\text{g/L}$.
 *MW-39 GROUNDWATER RESULTS FROM MARCH 2011



121103SiteF13-F20.DWG 3/22/11 SPV_REV

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

VOLUNTARY COMPLIANCE STATUS REPORT

FORMER DICKIES INDUSTRIAL SERVICES, INC. COLLEGE PARK, GEORGIA
 DRAWN BY S. VIZUETE PROJECT ENGINEER S. THOMPSON
 PROJECT SCIENTIST L. DORMAN PROJECT MANAGER S. THOMPSON



NOT FOR CONSTRUCTION

1,1-DICHLOROETHENE IN GROUNDWATER

SCALE AS NOTED DATE MARCH 22, 2011
 PROJECT NO. 121103 AutoCAD 2007 121103SiteF13-F20.DWG

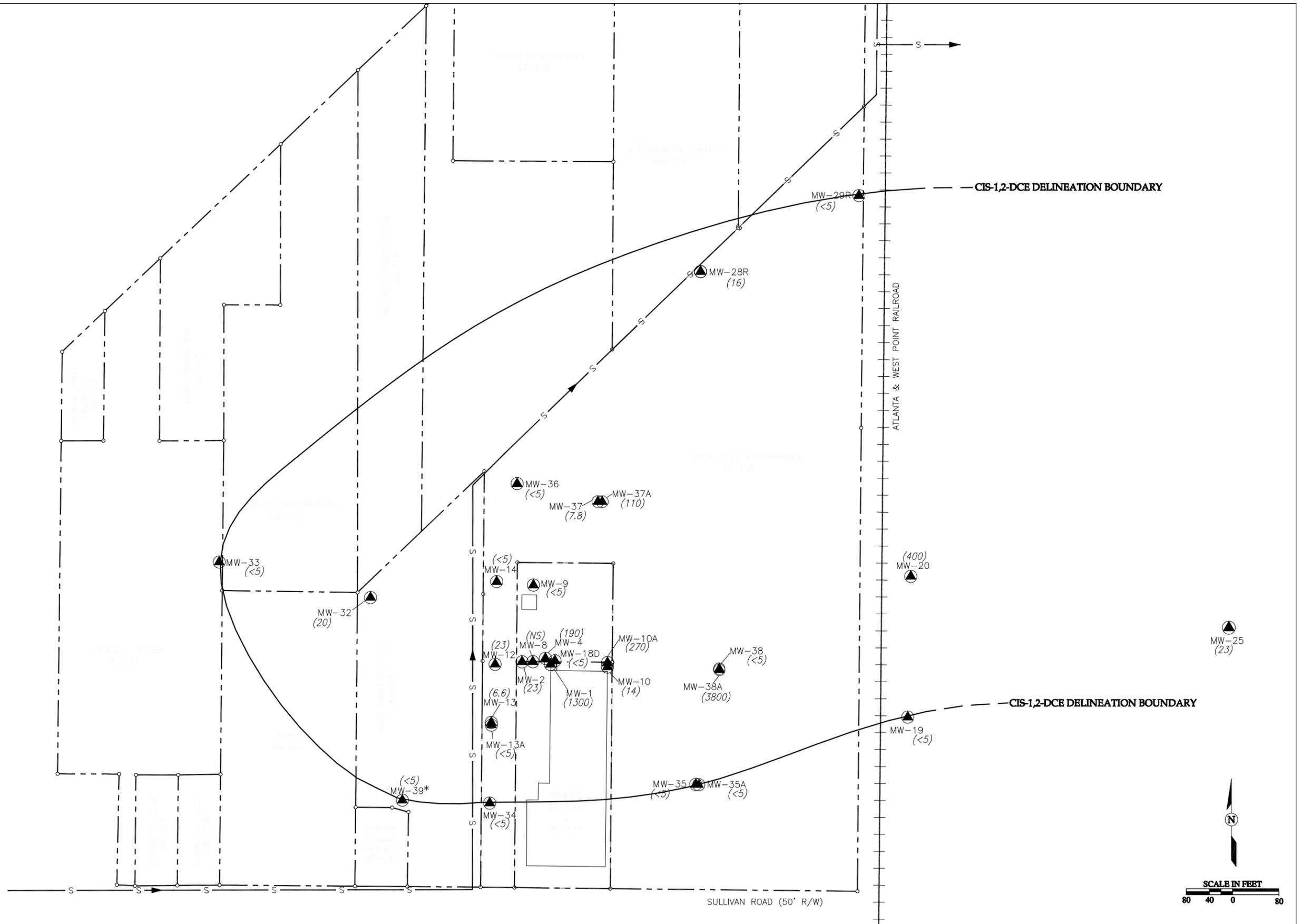
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REV. NO.	0
SHEET	1 OF 1

LEGEND

- ▲ ERM-MW-19 MONITORING WELLS
- +—+—+— RAIL ROAD
- - - - - PROPERTY BOUNDARY
- S — SANITARY SEWER LINE
- CIS-1,2-DCE DELINEATION BOUNDARY

NOTES

MW-12 WAS CONVERTED TO SVE-4 IN 4-2004.
 GROUNDWATER SAMPLING RESULTS FROM OCTOBER 2010.
 RESULTS ARE SHOWN IN $\mu\text{g/L}$.
 *MW-39 GROUNDWATER RESULTS FROM MARCH 2011

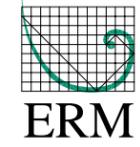


121103SiteF13-F20.DWG 3/22/11 SPV REV

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

VOLUNTARY COMPLIANCE STATUS REPORT

FORMER DICKIES INDUSTRIAL SERVICES, INC. COLLEGE PARK, GEORGIA
 DRAWN BY S. VIZUETE PROJECT ENGINEER S. THOMPSON
 PROJECT SCIENTIST L. DORMAN PROJECT MANAGER S. THOMPSON



NOT FOR CONSTRUCTION

CIS-1,2-DICHLOROETHENE IN GROUNDWATER

SCALE AS NOTED DATE MARCH 22, 2011
 PROJECT NO. 121103 AutoCAD 2007 121103SiteF13-F20.DWG

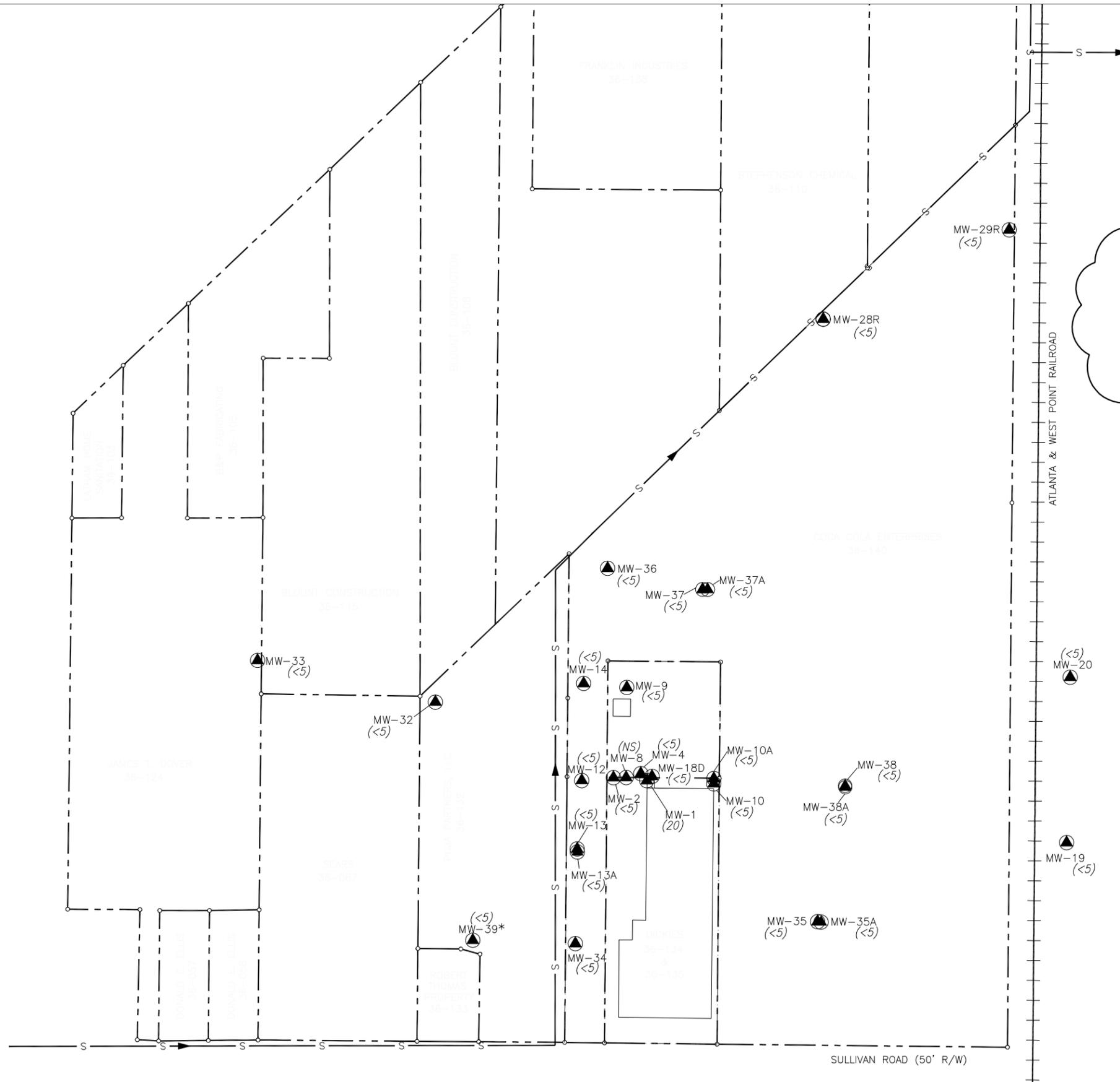
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SHEET	1 OF 1

LEGEND

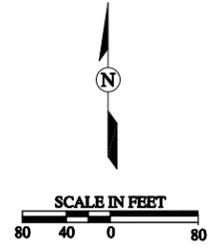
- ▲ ERM-MW-19 MONITORING WELLS
- +—+—+— RAIL ROAD
- - - - - PROPERTY BOUNDARY
- S— SANITARY SEWER LINE

NOTES

MW-12 WAS CONVERTED TO SVE-4 IN 4-2004.
 GROUNDWATER SAMPLING RESULTS FROM OCTOBER 2010.
 RESULTS ARE SHOWN IN $\mu\text{g/L}$.
 *MW-39 GROUNDWATER RESULTS FROM MARCH 2011



**GROUND WATER
 CONCENTRATIONS OF
 TRANS-1,2-DICHLOROETHENE ARE
 BELOW THE DELINEATION
 CONCENTRATION OF 100 $\mu\text{g/L}$.**



121103SiteF13-F20.DWG 3/22/11 SPV_REV

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

VOLUNTARY COMPLIANCE STATUS REPORT

FORMER DICKIES INDUSTRIAL SERVICES, INC. COLLEGE PARK, GEORGIA

DRAWN BY S. VIZUETE	PROJECT ENGINEER S. THOMPSON
PROJECT SCIENTIST L. DORMAN	PROJECT MANAGER S. THOMPSON



**NOT
 FOR
 CONST-
 RUCTION**

TRANS-1,2-DICHLOROETHENE IN GROUNDWATER

SCALE AS NOTED	DATE MARCH 22, 2011
PROJECT NO. 121103	AutoCAD 2007 121103SiteF13-F20.DWG

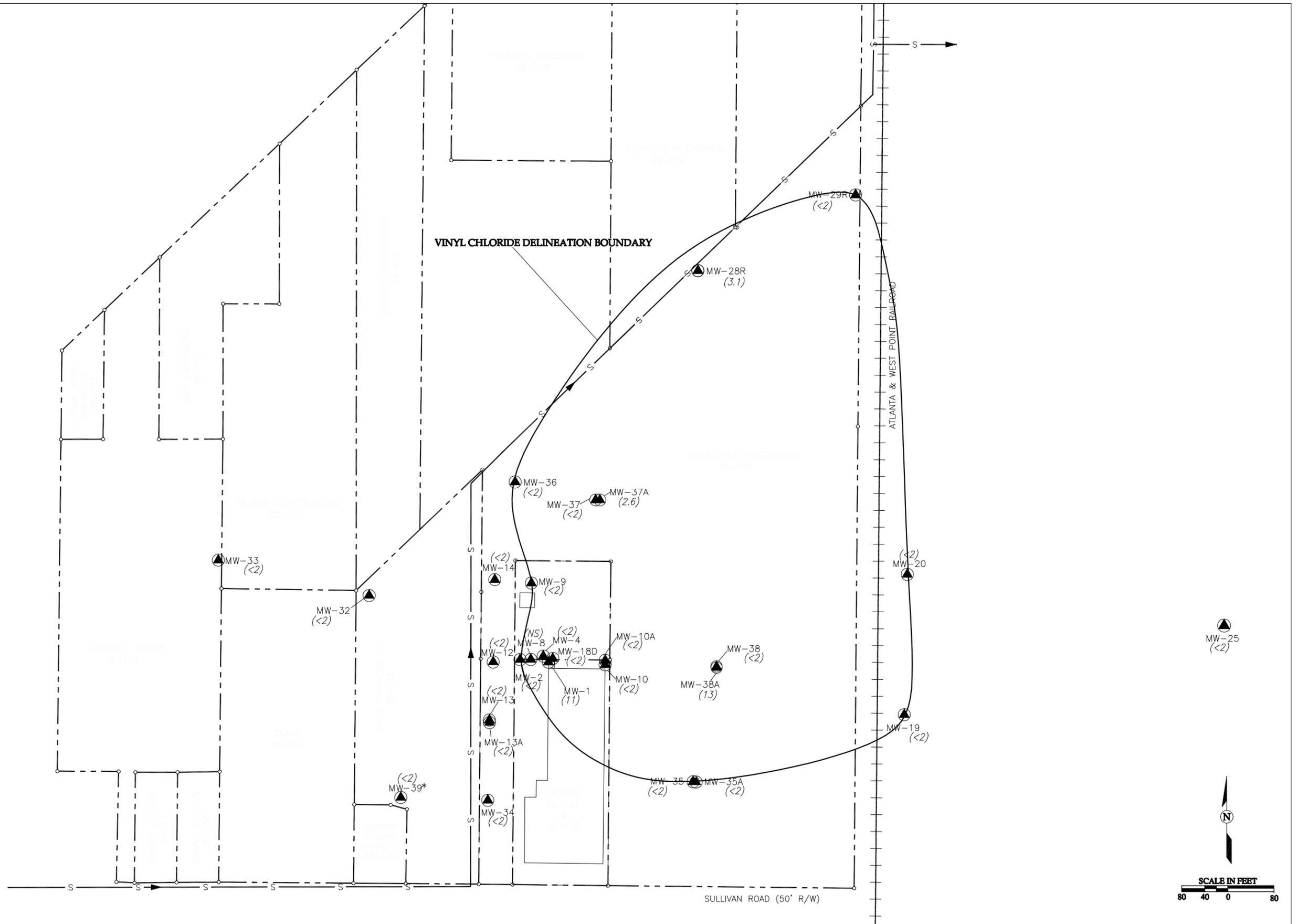
DRAWING NO. 18
REV. NO. 0
SHEET 1 OF 1

LEGEND

- ▲ ERM-MW-19 MONITORING WELLS
- +—+—+— RAIL ROAD
- - - - - PROPERTY BOUNDARY
- S— SANITARY SEWER LINE
- VINYL CHLORIDE DELINEATION BOUNDARY

NOTES

MW-12 WAS CONVERTED TO SVE-4 IN 4-2004.
 GROUNDWATER SAMPLING RESULTS FROM OCTOBER 2010.
 RESULTS ARE SHOWN IN $\mu\text{g/L}$.
 *MW-39 GROUNDWATER RESULTS FROM MARCH 2011



121103SiteF13-F20.DWG 3/22/11 SPV REV

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

VOLUNTARY COMPLIANCE STATUS REPORT

FORMER DICKIES INDUSTRIAL SERVICES, INC. COLLEGE PARK, GEORGIA
 DRAWN BY S. VIZUETE PROJECT ENGINEER S. THOMPSON
 PROJECT SCIENTIST L. DORMAN PROJECT MANAGER S. THOMPSON



NOT FOR CONSTRUCTION

VINYL CHLORIDE IN GROUNDWATER

SCALE AS NOTED DATE MARCH 22, 2011
 PROJECT NO. 121103 AutoCAD 2007 121103SiteF13-F20.DWG

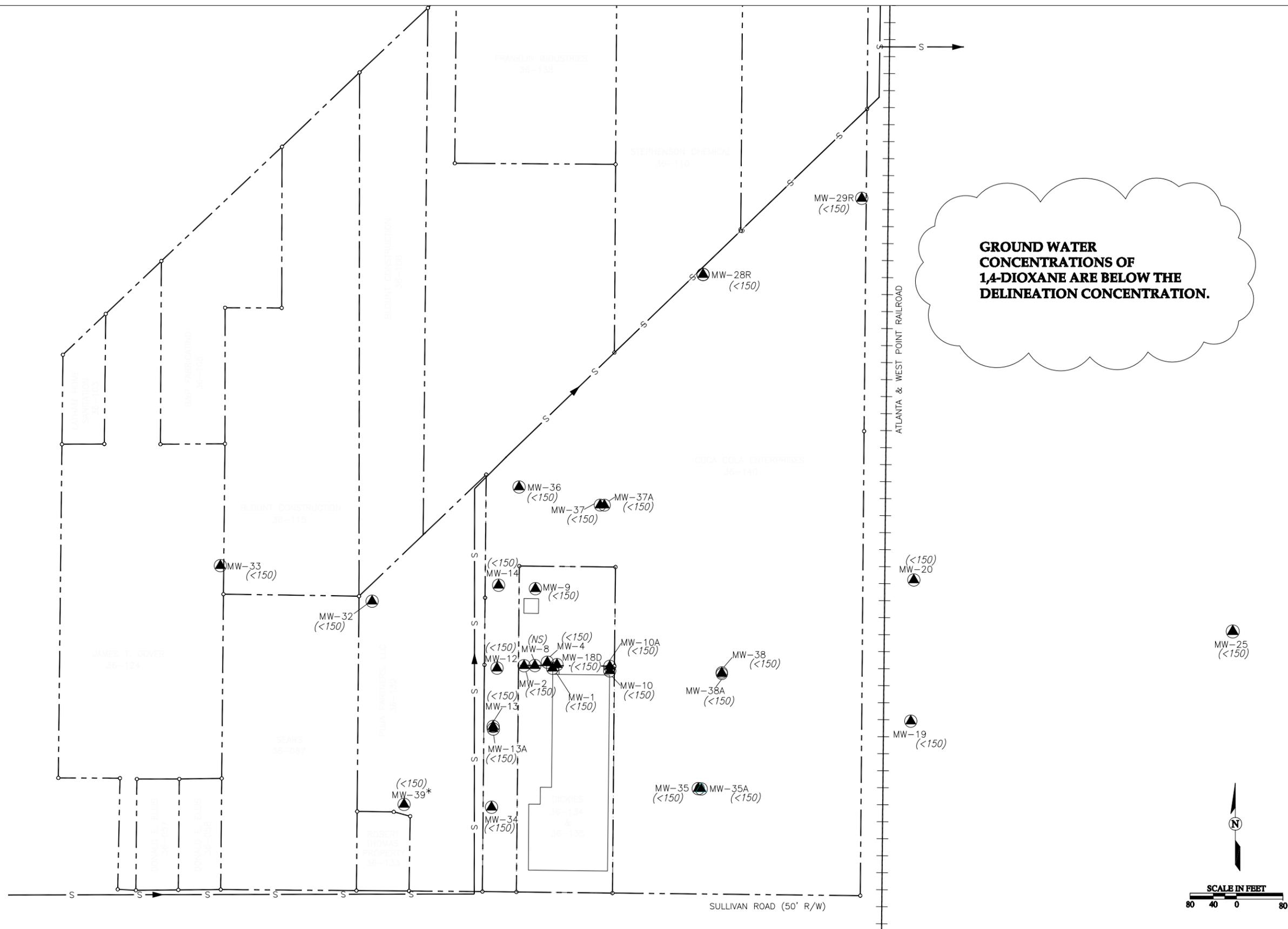
DRAWING NO.	19
REV. NO.	0
SHEET	1 OF 1

LEGEND

- ▲ ERM-MW-19 MONITORING WELLS
- +—+—+— RAIL ROAD
- - - - - PROPERTY BOUNDARY
- S— SANITARY SEWER LINE

NOTES

MW-12 WAS CONVERTED TO SVE-4 IN 4-2004.
 GROUNDWATER SAMPLING RESULTS FROM OCTOBER 2010.
 RESULTS ARE SHOWN IN $\mu\text{g/L}$.
 *MW-39 GROUNDWATER RESULTS FROM MARCH 2011



**GROUND WATER
 CONCENTRATIONS OF
 1,4-DIOXANE ARE BELOW THE
 DELINEATION CONCENTRATION.**



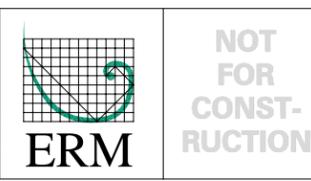
121103SiteF13-F20.DWG 3/22/11 SPV REV

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

VOLUNTARY COMPLIANCE STATUS REPORT

FORMER DICKIES INDUSTRIAL SERVICES, INC. COLLEGE PARK, GEORGIA

DRAWN BY S. VIZUETE	PROJECT ENGINEER S. THOMPSON
PROJECT SCIENTIST L. DORMAN	PROJECT MANAGER S. THOMPSON



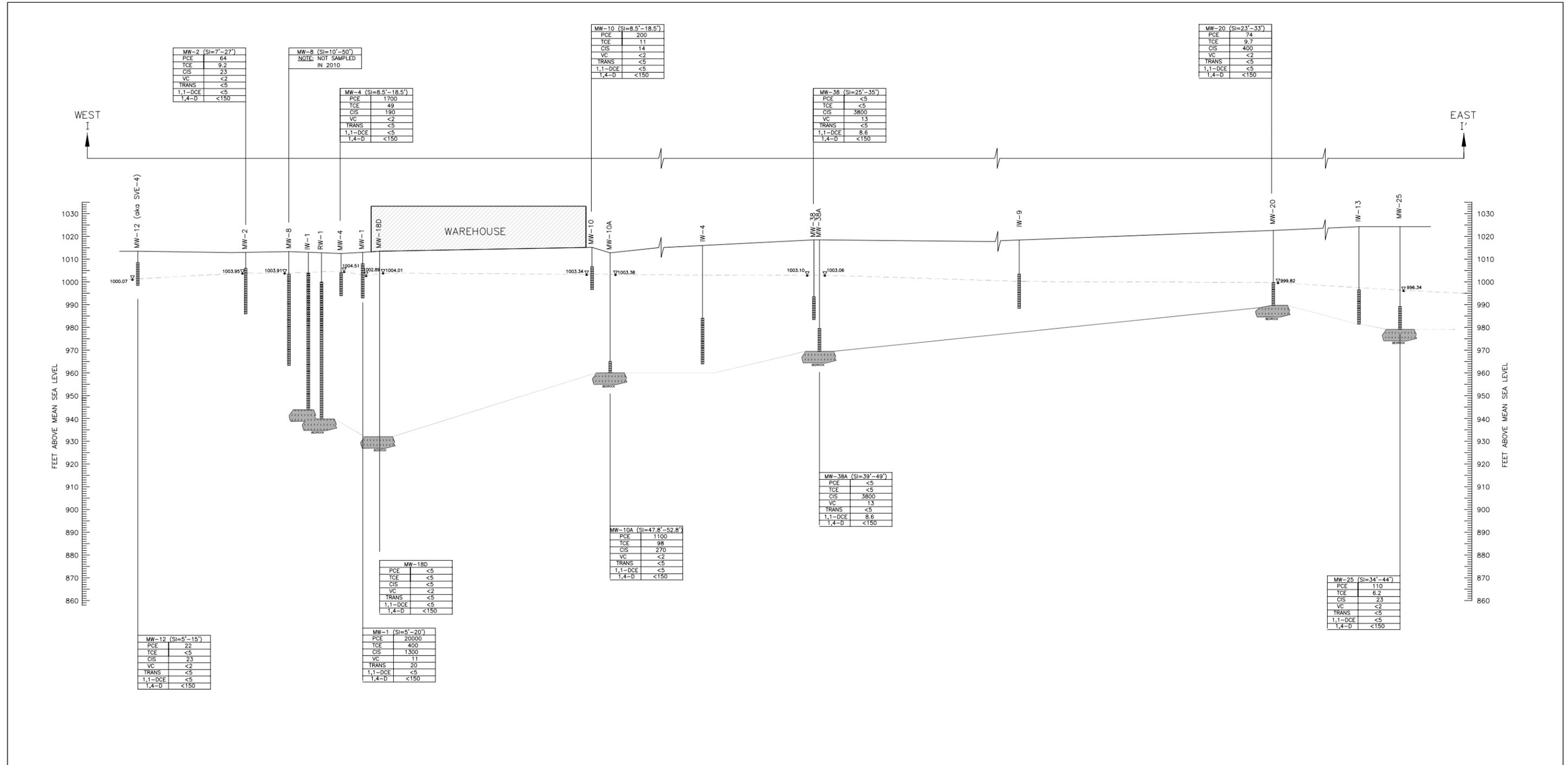
1,4 DIOXANE IN GROUNDWATER

SCALE AS NOTED	DATE MARCH 22, 2011
PROJECT NO. 121103	AutoCAD 2007 121103SiteF13-F20.DWG

DRAWING NO. 20

REV. NO. 0

SHEET 1 OF 1



MW-2 (SI=7'-27')	
PCE	64
TCE	9.2
CIS	23
VC	<2
TRANS	<5
1,1-DCE	<5
1,4-D	<150

MW-8 (SI=10'-50')
NOTE: NOT SAMPLED
IN 2010

MW-4 (SI=8.5'-18.5')	
PCE	1700
TCE	49
CIS	190
VC	<2
TRANS	<5
1,1-DCE	<5
1,4-D	<150

MW-10 (SI=8.5'-18.5')	
PCE	200
TCE	11
CIS	14
VC	<2
TRANS	<5
1,1-DCE	<5
1,4-D	<150

MW-38 (SI=25'-35')	
PCE	<5
TCE	<5
CIS	3800
VC	13
TRANS	<5
1,1-DCE	8.6
1,4-D	<150

MW-20 (SI=23'-33')	
PCE	74
TCE	9.7
CIS	400
VC	<2
TRANS	<5
1,1-DCE	<5
1,4-D	<150

MW-18D	
PCE	<5
TCE	<5
CIS	<5
VC	<2
TRANS	<5
1,1-DCE	<5
1,4-D	<150

MW-10A (SI=47.8'-52.8')	
PCE	1100
TCE	98
CIS	270
VC	<2
TRANS	<5
1,1-DCE	<5
1,4-D	<150

MW-38A (SI=39'-49')	
PCE	<5
TCE	<5
CIS	3800
VC	13
TRANS	<5
1,1-DCE	8.6
1,4-D	<150

MW-25 (SI=34'-44')	
PCE	110
TCE	6.2
CIS	23
VC	<2
TRANS	<5
1,1-DCE	<5
1,4-D	<150

MW-12 (SI=5'-15')	
PCE	22
TCE	<5
CIS	23
VC	<2
TRANS	<5
1,1-DCE	<5
1,4-D	<150

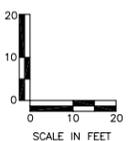
MW-1 (SI=5'-20')	
PCE	20000
TCE	400
CIS	1300
VC	11
TRANS	20
1,1-DCE	<5
1,4-D	<150

LEGEND
 ▼ 1008.93 GROUND WATER ELEVATION (FT. MSL)

PCE	Tetrachloroethene
TCE	Trichloroethene
CIS	cis-1,2-Dichloroethene
VC	Vinyl Chloride
TRANS	trans-1,2-Dichloroethene
1,1-DCE	1,1-Dichloroethene
1,4-D	1,4-Dioxane

WELL SCREEN INTERVAL

- NOTES:
- GROUND WATER ELEVATIONS AND CONCENTRATIONS MEASURED IN OCTOBER 2010.
 - CONCENTRATIONS ARE IN $\mu\text{g/L}$.
 - SI = SCREEN INTERVAL.
 - DISTANCES BETWEEN WELLS PROJECTED ONTO STRAIGHT LINE CROSS-SECTION. SEE PLAN VIEWS FOR TRUE DISTANCES.

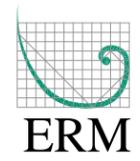


121103Site21.DWG_3/22/11 SPV_REV_3/28/11

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

VOLUNTARY COMPLIANCE STATUS REPORT

FORMER DICKIES INDUSTRIAL SERVICES, INC. COLLEGE PARK, GEORGIA
 DRAWN BY S. VIZUETE PROJECT ENGINEER S. THOMPSON
 PROJECT SCIENTIST L. DORMAN PROJECT MANAGER S. THOMPSON



NOT FOR CONSTRUCTION

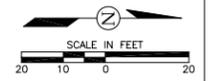
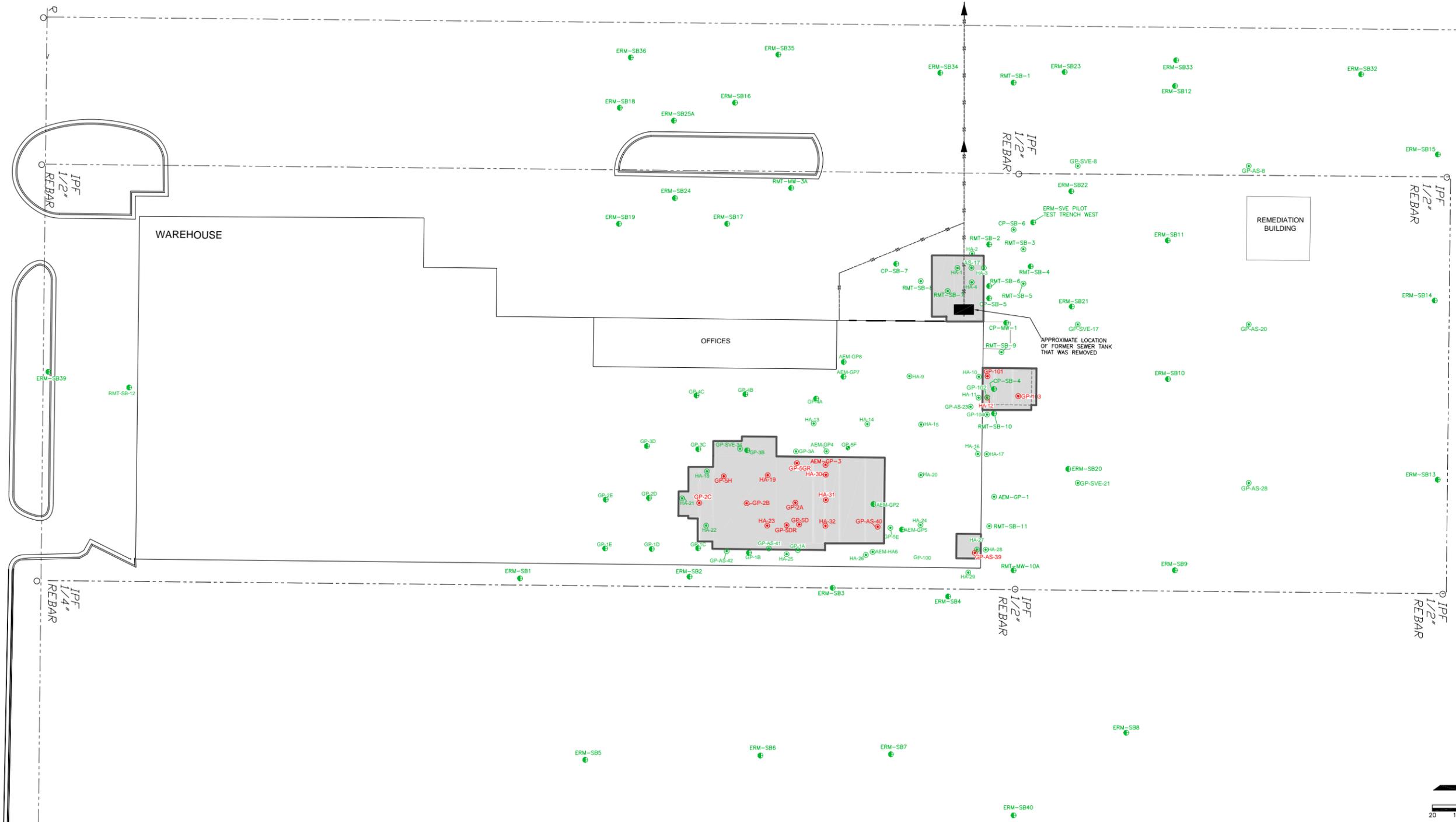
GEOLOGIC CROSS-SECTION I-I' WITH OCT 2010 GW DATA

SCALE AS NOTED DATE MARCH 22, 2011
 PROJECT NO. 121103 AutoCAD 2007 121103Site21.DWG

DRAWING NO.	21
REV. NO.	0
SHEET	1 OF 1

LEGEND

- HA-20 SAMPLE COLLECTED BETWEEN JANUARY 2000 AND JANUARY 2010 - BELOW ALL RRS
- GP-3D SAMPLE COLLECTED BETWEEN 1990 AND 1999 - BELOW ALL RRS
- PROPERTY LINE
- SS --- SEWER LINE
- HA-31 SAMPLE COLLECTED BETWEEN JANUARY 2000 AND JANUARY 2010 - EXCEEDED RRS FOR ONE OR MORE COMPOUNDS
- GP-3E SAMPLE COLLECTED BETWEEN 1990 AND 1999 - EXCEEDED RRS FOR ONE OR MORE COMPOUNDS
- RRS RISK REDUCTION STANDARDS
- █ FINAL EXCAVATION BOUNDARIES



121103Site22.DWG 3/15/11 SPV REV 3/25/11

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

VOLUNTARY COMPLIANCE STATUS REPORT			NOT FOR CONSTRUCTION	SOIL RRS EXCEEDANCE LOCATIONS AND EXCAVATION AREAS		DRAWING NO. 22
FORMER DICKIES INDUSTRIAL SERVICES, INC. COLLEGE PARK, GEORGIA				SCALE AS NOTED	DATE MARCH 15, 2011	PROJECT NO. 121103
DRAWN BY S. VIZUETE	PROJECT ENGINEER S. THOMPSON	DESIGN ENGINEER L. DORMAN	PROJECT MANAGER S. THOMPSON			SHEET 1 OF 1

LEGEND

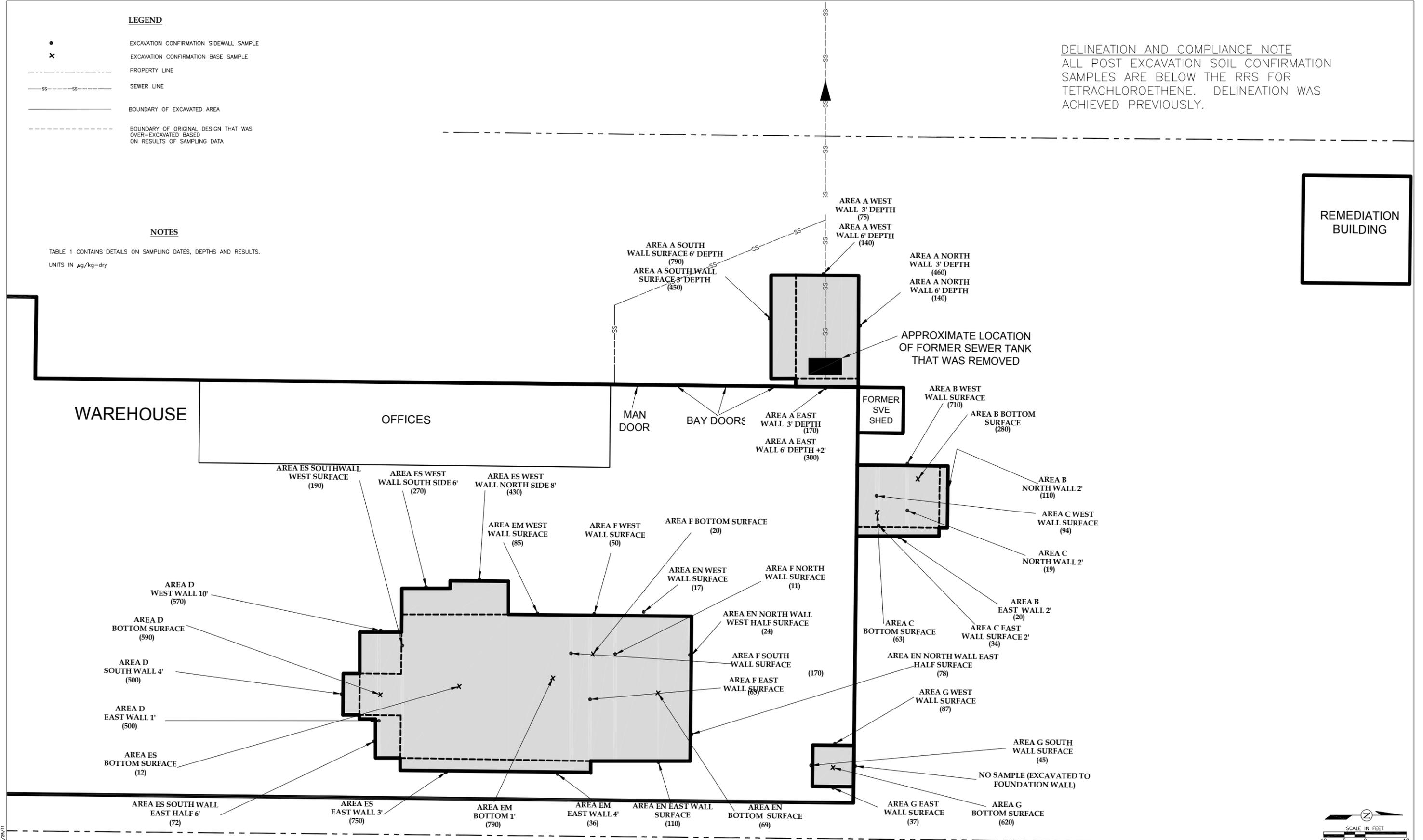
- EXCAVATION CONFIRMATION SIDEWALL SAMPLE
- x EXCAVATION CONFIRMATION BASE SAMPLE
- - - - - PROPERTY LINE
- - - - - SEWER LINE
- _____ BOUNDARY OF EXCAVATED AREA
- - - - - BOUNDARY OF ORIGINAL DESIGN THAT WAS OVER-EXCAVATED BASED ON RESULTS OF SAMPLING DATA

DELINEATION AND COMPLIANCE NOTE
 ALL POST EXCAVATION SOIL CONFIRMATION SAMPLES ARE BELOW THE RRS FOR TETRACHLOROETHENE. DELINEATION WAS ACHIEVED PREVIOUSLY.

NOTES

TABLE 1 CONTAINS DETAILS ON SAMPLING DATES, DEPTHS AND RESULTS.
 UNITS IN $\mu\text{g}/\text{kg-dry}$

REMEDIATION BUILDING

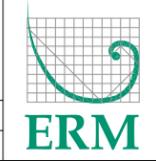


NO.	DATE	APPR.	REVISION	NO.	DATE	APPR.	REVISION

VOLUNTARY COMPLIANCE STATUS REPORT

FORMER DICKIES INDUSTRIAL SERVICES, INC. COLLEGE PARK, GEORGIA

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



NOT FOR CONSTRUCTION

TETRACHLOROETHENE IN SOIL (POST EXCAVATION)

SCALE AS NOTED	DATE MARCH 18, 2011
PROJECT NO. 1211103	AutoCAD 2007 1211103Site1.DWG

DRAWING NO. 23
REV. NO. 0
SHEET 1 OF 1

1211103Site1.DWG 3/18/11 SPV REV 3/25/11

LEGEND

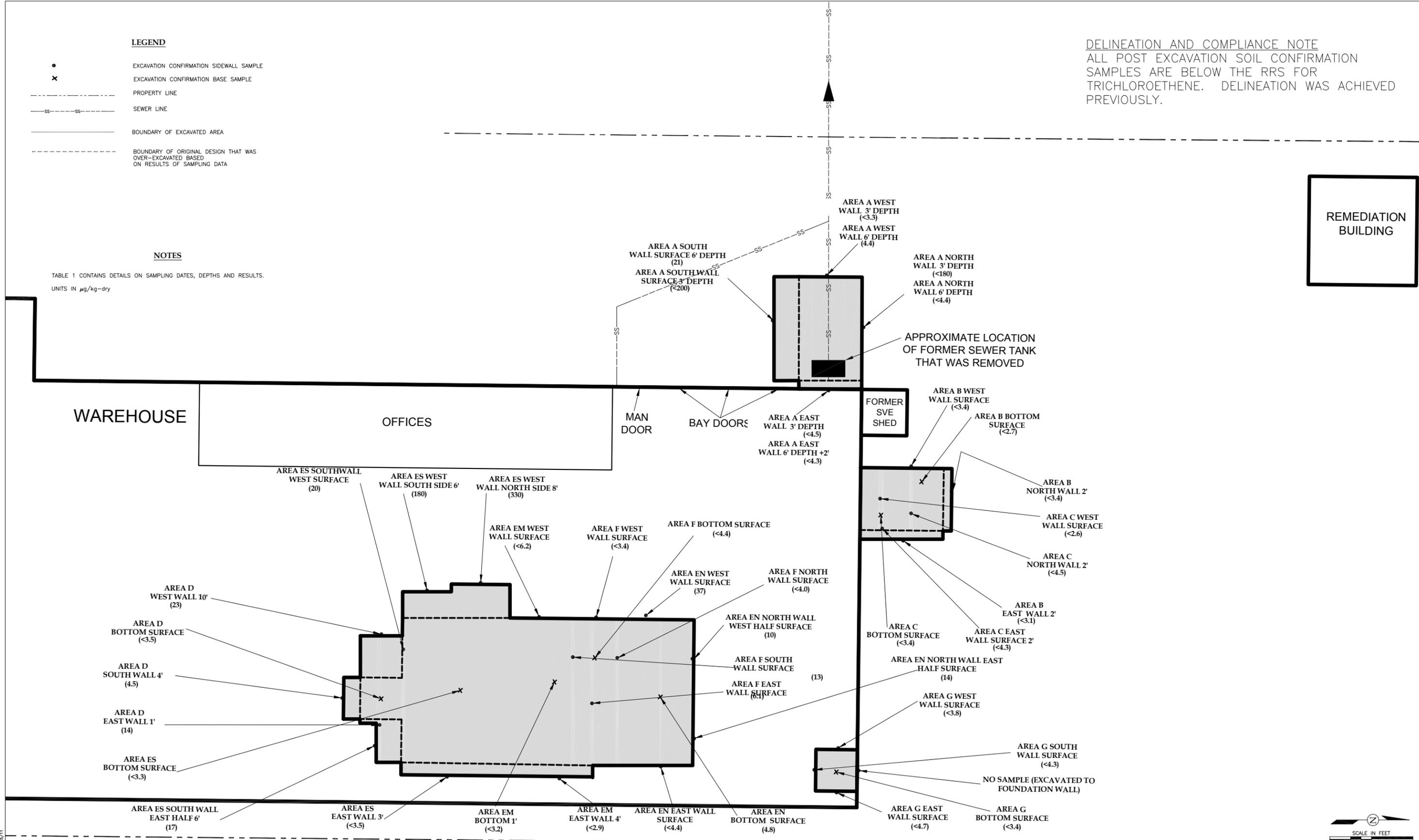
- EXCAVATION CONFIRMATION SIDEWALL SAMPLE
- x EXCAVATION CONFIRMATION BASE SAMPLE
- - - - - PROPERTY LINE
- - - - - SEWER LINE
- — — — — BOUNDARY OF EXCAVATED AREA
- - - - - BOUNDARY OF ORIGINAL DESIGN THAT WAS OVER-EXCAVATED BASED ON RESULTS OF SAMPLING DATA

DELINEATION AND COMPLIANCE NOTE
 ALL POST EXCAVATION SOIL CONFIRMATION SAMPLES ARE BELOW THE RRS FOR TRICHLOROETHENE. DELINEATION WAS ACHIEVED PREVIOUSLY.

REMEDIATION BUILDING

NOTES

TABLE 1 CONTAINS DETAILS ON SAMPLING DATES, DEPTHS AND RESULTS.
 UNITS IN µg/kg-dry



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

VOLUNTARY COMPLIANCE STATUS REPORT

FORMER DICKIES INDUSTRIAL SERVICES, INC. COLLEGE PARK, GEORGIA

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



NOT FOR CONSTRUCTION

TRICHLOROETHENE IN SOIL (POST EXCAVATION)

SCALE AS NOTED	DATE MARCH 18, 2011
PROJECT NO. 1211103	AutoCAD 2007 1211103Site1.DWG

DRAWING NO.	24
REV. NO.	0
SHEET	1 OF 1

1211103Site1.DWG 3/18/11 SPV REV 3/25/11

LEGEND

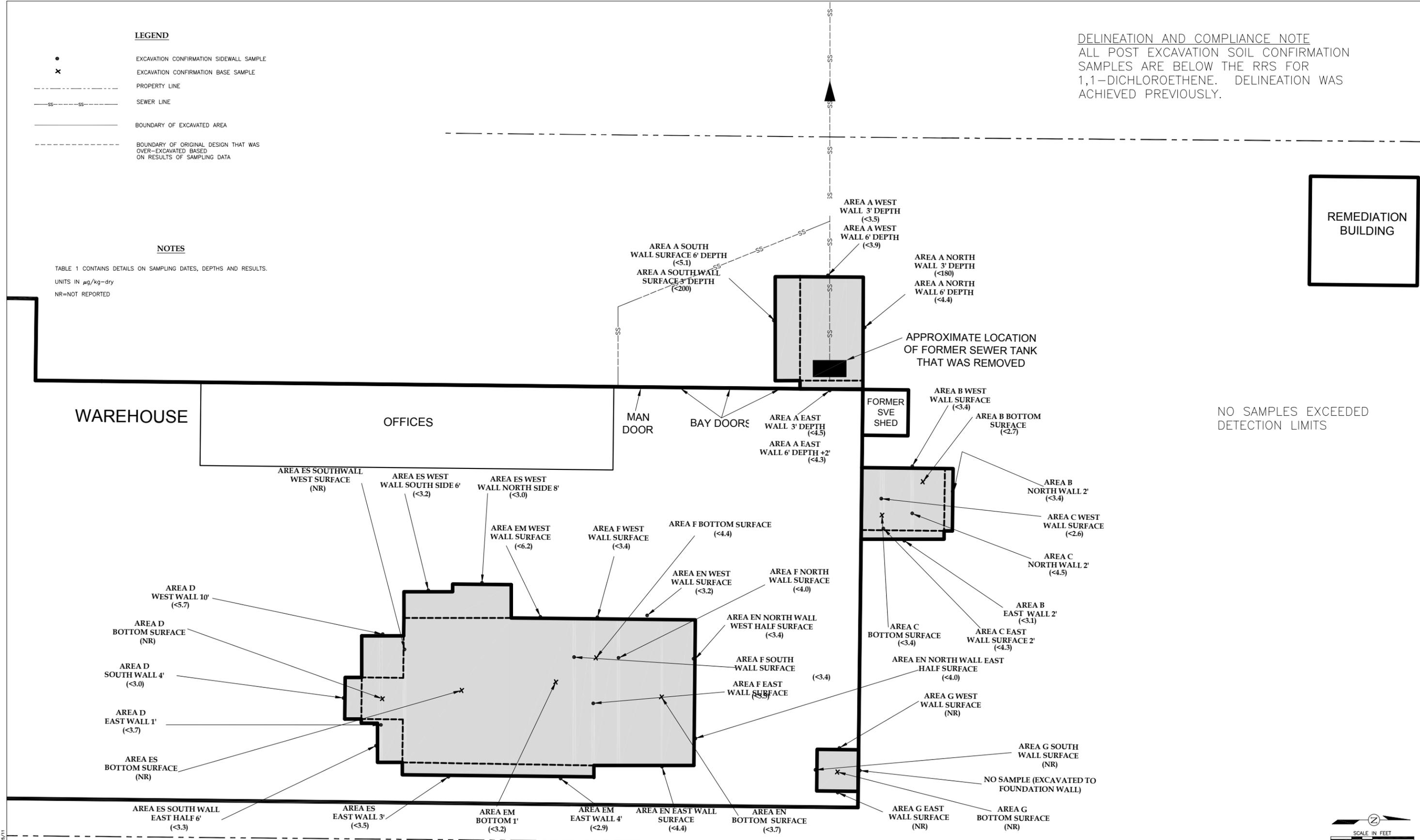
- EXCAVATION CONFIRMATION SIDEWALL SAMPLE
- x EXCAVATION CONFIRMATION BASE SAMPLE
- PROPERTY LINE
- SS--- SEWER LINE
- BOUNDARY OF EXCAVATED AREA
- BOUNDARY OF ORIGINAL DESIGN THAT WAS OVER-EXCAVATED BASED ON RESULTS OF SAMPLING DATA

NOTES

TABLE 1 CONTAINS DETAILS ON SAMPLING DATES, DEPTHS AND RESULTS.
 UNITS IN $\mu\text{g}/\text{kg-dry}$
 NR=NOT REPORTED

DELINEATION AND COMPLIANCE NOTE
 ALL POST EXCAVATION SOIL CONFIRMATION SAMPLES ARE BELOW THE RRS FOR 1,1-DICHLOROETHENE. DELINEATION WAS ACHIEVED PREVIOUSLY.

REMEDIATION BUILDING



NO SAMPLES EXCEEDED DETECTION LIMITS



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

VOLUNTARY COMPLIANCE STATUS REPORT

FORMER DICKIES INDUSTRIAL SERVICES, INC. COLLEGE PARK, GEORGIA

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



NOT FOR CONSTRUCTION

1,1-DICHLOROETHENE IN SOIL (POST EXCAVATION)

SCALE AS NOTED	DATE MARCH 18, 2011
PROJECT NO. 1211103	AutoCAD 2007 1211103Site1.DWG

DRAWING NO.	25
REV. NO.	0
SHEET	1 OF 1

1211103Site1.DWG 3/18/11 SPV REV 3/25/11

LEGEND

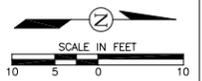
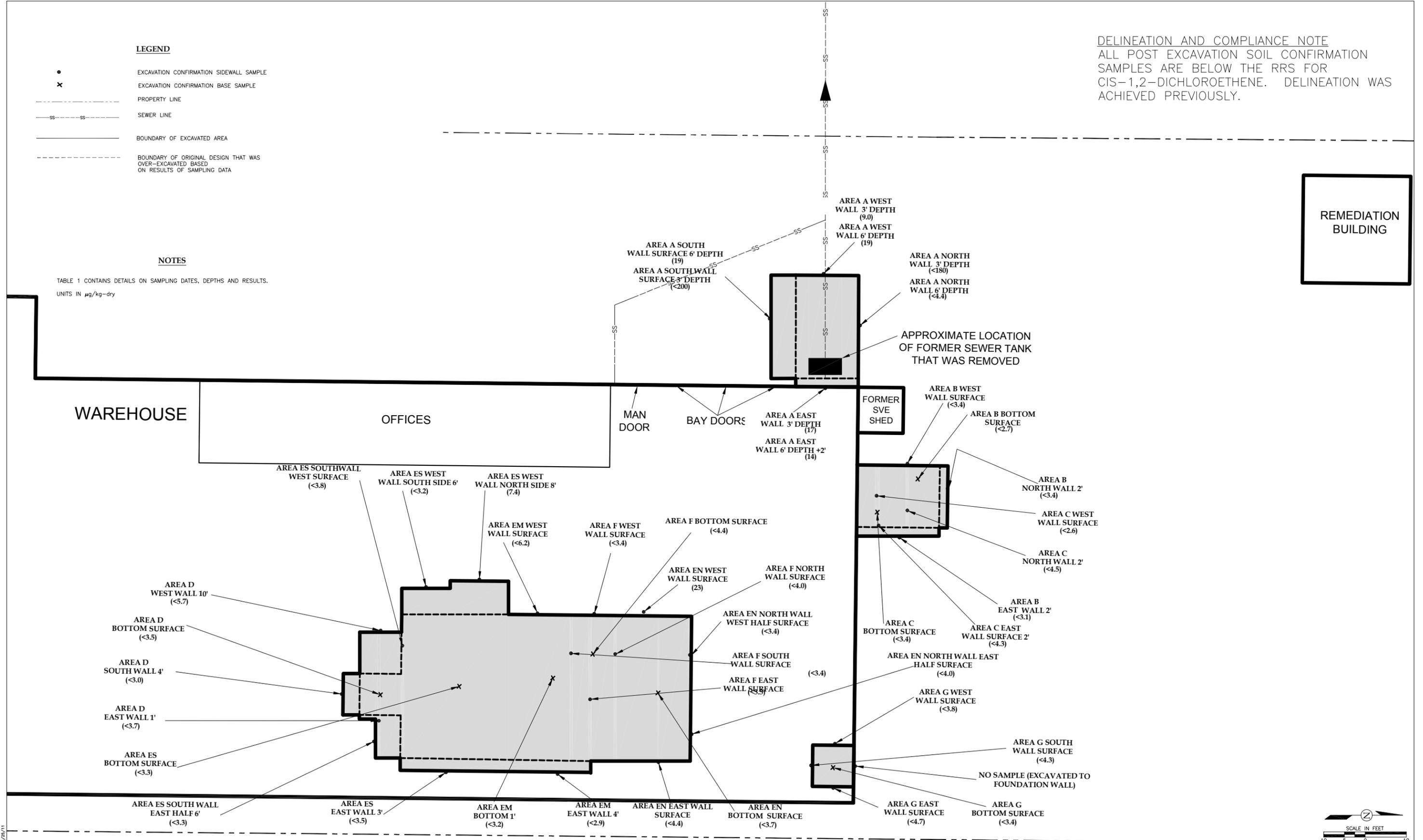
- EXCAVATION CONFIRMATION SIDEWALL SAMPLE
- x EXCAVATION CONFIRMATION BASE SAMPLE
- PROPERTY LINE
- SS --- SEWER LINE
- BOUNDARY OF EXCAVATED AREA
- BOUNDARY OF ORIGINAL DESIGN THAT WAS OVER-EXCAVATED BASED ON RESULTS OF SAMPLING DATA

NOTES

TABLE 1 CONTAINS DETAILS ON SAMPLING DATES, DEPTHS AND RESULTS.
UNITS IN $\mu\text{g}/\text{kg-dry}$

DELINEATION AND COMPLIANCE NOTE
ALL POST EXCAVATION SOIL CONFIRMATION SAMPLES ARE BELOW THE RRS FOR CIS-1,2-DICHLOROETHENE. DELINEATION WAS ACHIEVED PREVIOUSLY.

REMEDIATION BUILDING



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

VOLUNTARY COMPLIANCE STATUS REPORT

FORMER DICKIES INDUSTRIAL SERVICES, INC. COLLEGE PARK, GEORGIA

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



**CIS-1,2-DICHLOROETHENE IN SOIL
(POST EXCAVATION)**

SCALE AS NOTED DATE MARCH 18, 2011

PROJECT NO. 121103 AutoCAD 2007 121103Site1.DWG

DRAWING NO. **26**

REV. NO. **0**

SHEET **1** OF **1**

121103Site1.DWG 3/18/11 SPV REV 3/25/11

LEGEND

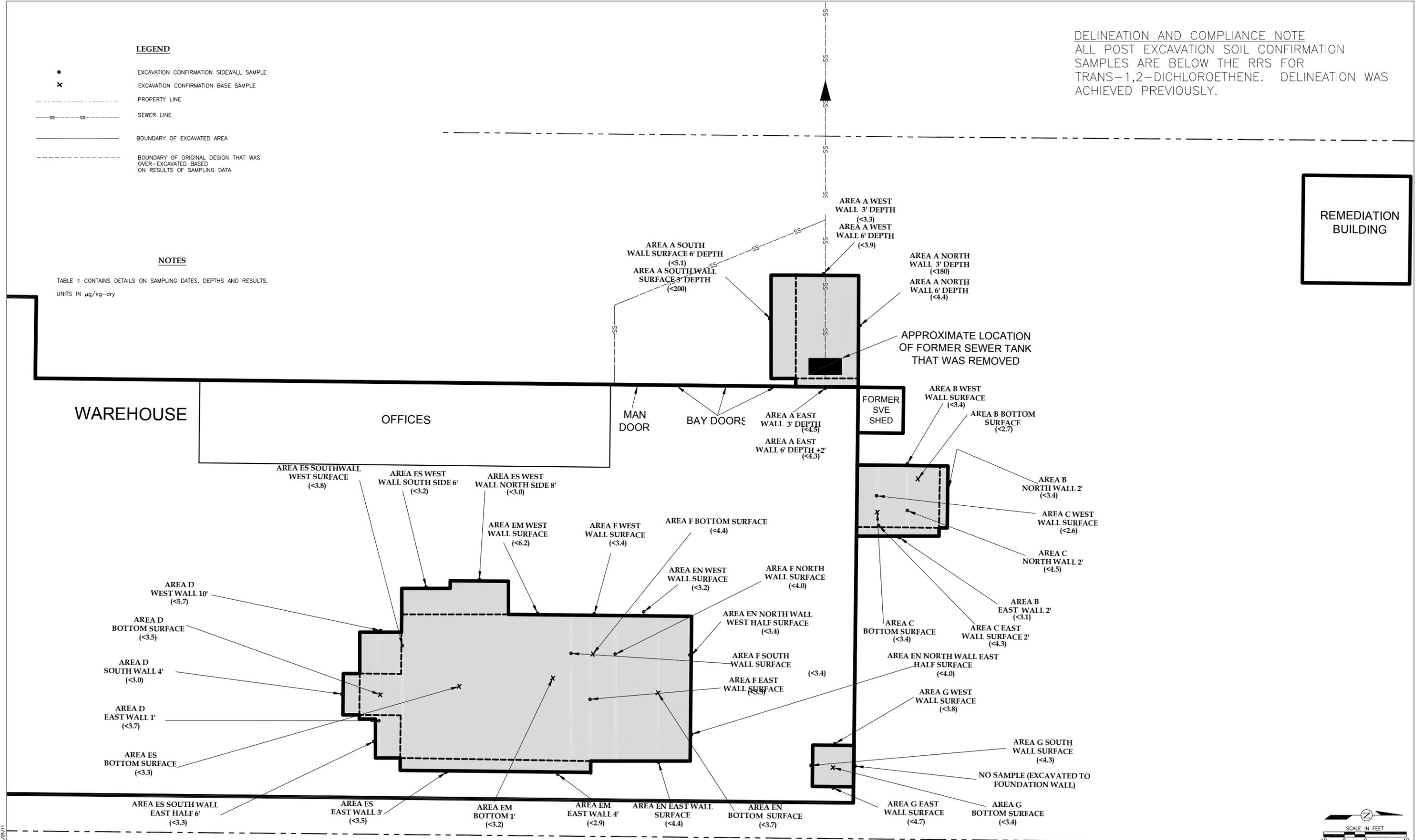
- EXCAVATION CONFIRMATION SIDEWALL SAMPLE
- x EXCAVATION CONFIRMATION BASE SAMPLE
- PROPERTY LINE
- SS --- SEWER LINE
- BOUNDARY OF EXCAVATED AREA
- BOUNDARY OF ORIGINAL DESIGN THAT WAS OVER-EXCAVATED BASED ON RESULTS OF SAMPLING DATA

NOTES

TABLE 1 CONTAINS DETAILS ON SAMPLING DATES, DEPTHS AND RESULTS.
UNITS IN $\mu\text{g}/\text{kg-dry}$

DELINEATION AND COMPLIANCE NOTE
ALL POST EXCAVATION SOIL CONFIRMATION SAMPLES ARE BELOW THE RRS FOR TRANS-1,2-DICHLOROETHENE. DELINEATION WAS ACHIEVED PREVIOUSLY.

REMEDIATION BUILDING



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

VOLUNTARY COMPLIANCE STATUS REPORT

FORMER DICKIES INDUSTRIAL SERVICES, INC. COLLEGE PARK, GEORGIA

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



TRANS-1,2-DICHLOROETHENE IN SOIL (POST EXCAVATION)

SCALE AS NOTED DATE MARCH 18, 2011

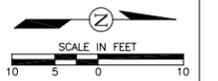
PROJECT NO. 121103 AutoCAD 2007 121103Site1.DWG

DRAWING NO. **27**

REV. NO. **0**

SHEET **1** OF **1**

121103Site1.DWG 3/18/11 SPV REV 3/25/11



LEGEND

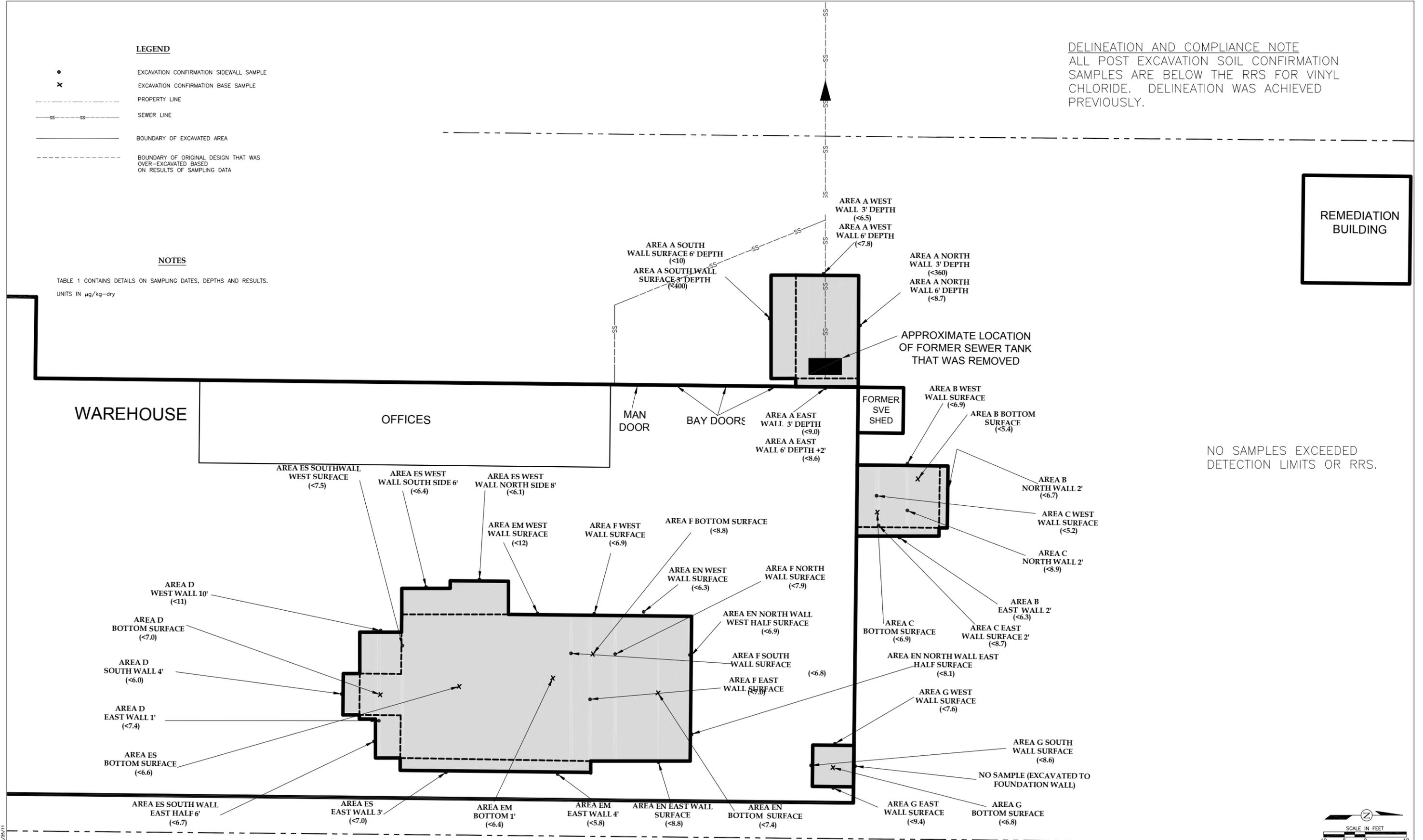
- EXCAVATION CONFIRMATION SIDEWALL SAMPLE
- ✕ EXCAVATION CONFIRMATION BASE SAMPLE
- - - - - PROPERTY LINE
- - - - - SEWER LINE
- — — — — BOUNDARY OF EXCAVATED AREA
- - - - - BOUNDARY OF ORIGINAL DESIGN THAT WAS OVER-EXCAVATED BASED ON RESULTS OF SAMPLING DATA

DELINEATION AND COMPLIANCE NOTE
 ALL POST EXCAVATION SOIL CONFIRMATION
 SAMPLES ARE BELOW THE RRS FOR VINYL
 CHLORIDE. DELINEATION WAS ACHIEVED
 PREVIOUSLY.

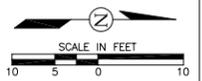
**REMEDIATION
BUILDING**

NOTES

TABLE 1 CONTAINS DETAILS ON SAMPLING DATES, DEPTHS AND RESULTS.
 UNITS IN µg/kg-dry



NO SAMPLES EXCEEDED
 DETECTION LIMITS OR RRS.



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

VOLUNTARY COMPLIANCE STATUS REPORT

FORMER DICKIES INDUSTRIAL SERVICES, INC. COLLEGE PARK, GEORGIA

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



**VINYL CHLORIDE IN SOIL
 (POST EXCAVATION)**

SCALE AS NOTED DATE MARCH 18, 2011

PROJECT NO. 121103 AutoCAD 2007 121103Site1.DWG

DRAWING NO. **28**

REV. NO. **0**

SHEET **1** OF **1**

121103Site1.DWG 3/18/11 SPV REV 3/25/11

LEGEND

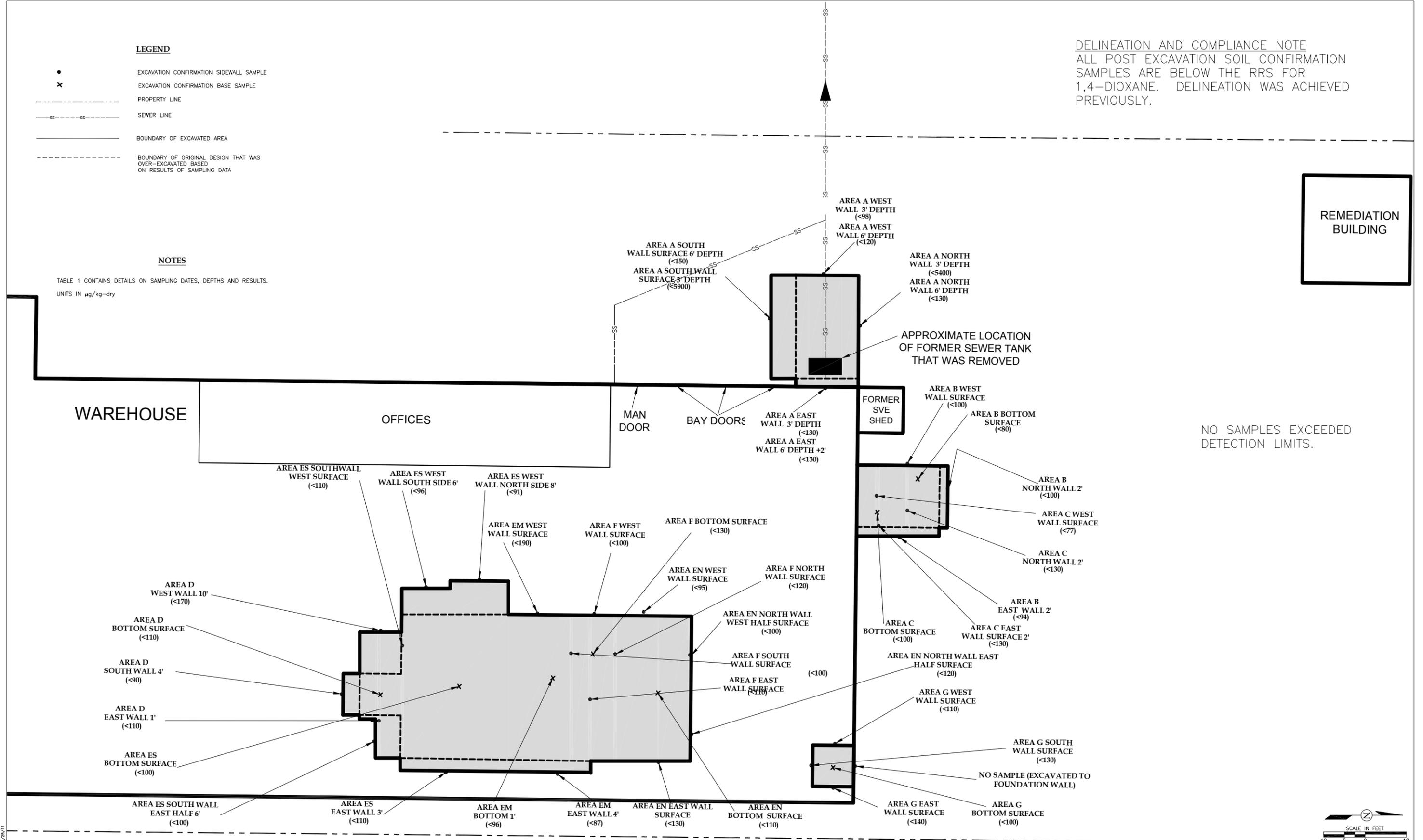
- EXCAVATION CONFIRMATION SIDEWALL SAMPLE
- ✕ EXCAVATION CONFIRMATION BASE SAMPLE
- PROPERTY LINE
- S---S--- SEWER LINE
- BOUNDARY OF EXCAVATED AREA
- BOUNDARY OF ORIGINAL DESIGN THAT WAS OVER-EXCAVATED BASED ON RESULTS OF SAMPLING DATA

NOTES

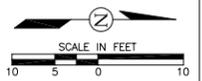
TABLE 1 CONTAINS DETAILS ON SAMPLING DATES, DEPTHS AND RESULTS.
 UNITS IN µg/kg-dry

DELINEATION AND COMPLIANCE NOTE
 ALL POST EXCAVATION SOIL CONFIRMATION SAMPLES ARE BELOW THE RRS FOR 1,4-DIOXANE. DELINEATION WAS ACHIEVED PREVIOUSLY.

REMEDIATION BUILDING



NO SAMPLES EXCEEDED DETECTION LIMITS.



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

VOLUNTARY COMPLIANCE STATUS REPORT		 ERM	NOT FOR CONSTRUCTION	1,4-DIOXANE IN SOIL (POST EXCAVATION)		DRAWING NO. 29
FORMER DICKIES INDUSTRIAL SERVICES, INC. COLLEGE PARK, GEORGIA				REV. NO. 0		
DRAWN BY S. VIZUETE	PROJECT ENGINEER S. THOMPSON	SCALE AS NOTED	DATE MARCH 18, 2011	PROJECT NO. 121103		SHEET 1 OF 1
DESIGN ENGINEER L. DORMAN	PROJECT MANAGER S. THOMPSON	AutoCAD 2007		121103Site1.DWG		

121103Site1.DWG 3/18/11 SPV REV 3/25/11

LEGEND

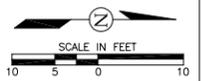
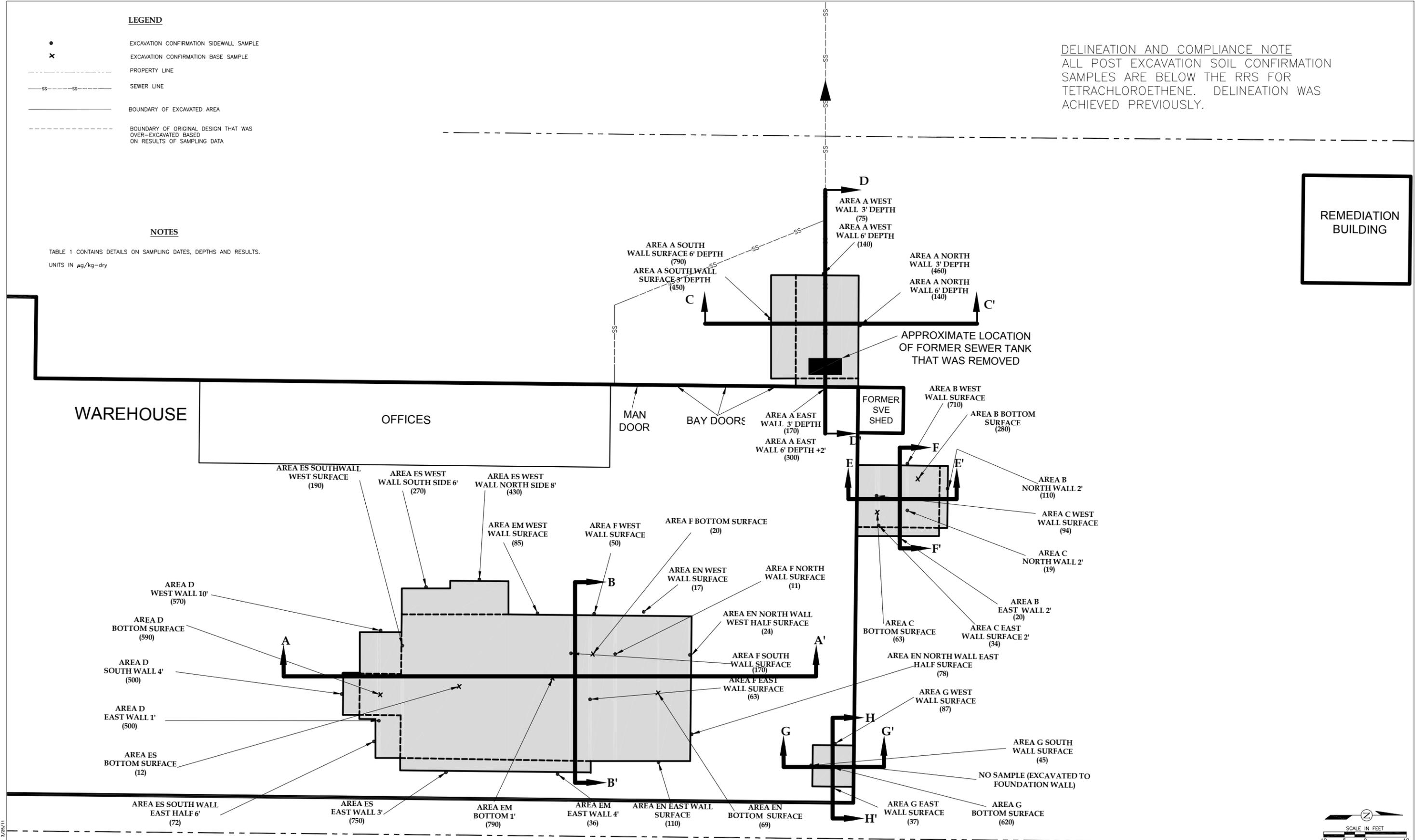
- EXCAVATION CONFIRMATION SIDEWALL SAMPLE
- x EXCAVATION CONFIRMATION BASE SAMPLE
- PROPERTY LINE
- SS--- SEWER LINE
- BOUNDARY OF EXCAVATED AREA
- BOUNDARY OF ORIGINAL DESIGN THAT WAS OVER-EXCAVATED BASED ON RESULTS OF SAMPLING DATA

DELINEATION AND COMPLIANCE NOTE
 ALL POST EXCAVATION SOIL CONFIRMATION
 SAMPLES ARE BELOW THE RRS FOR
 TETRACHLOROETHENE. DELINEATION WAS
 ACHIEVED PREVIOUSLY.

NOTES

TABLE 1 CONTAINS DETAILS ON SAMPLING DATES, DEPTHS AND RESULTS.
 UNITS IN $\mu\text{g}/\text{kg-dry}$

**REMEDIATION
BUILDING**



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

VOLUNTARY COMPLIANCE STATUS REPORT

FORMER DICKIES INDUSTRIAL SERVICES, INC. COLLEGE PARK, GEORGIA

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



**SOIL CROSS SECTION LOCATIONS -
WITH PCE DATA SHOWN
(POST EXCAVATION)**

SCALE AS NOTED DATE MARCH 18, 2011

PROJECT NO. 1211103 AutoCAD 2007 1211103Site1.DWG

DRAWING NO. **30**

REV. NO. **0**

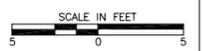
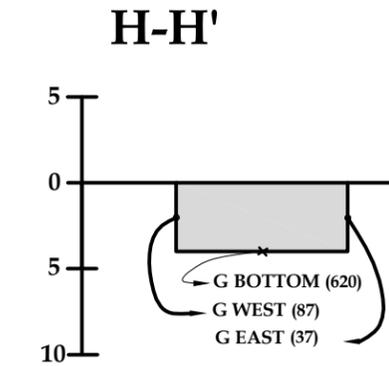
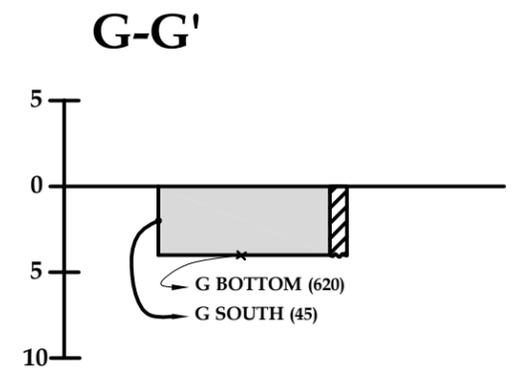
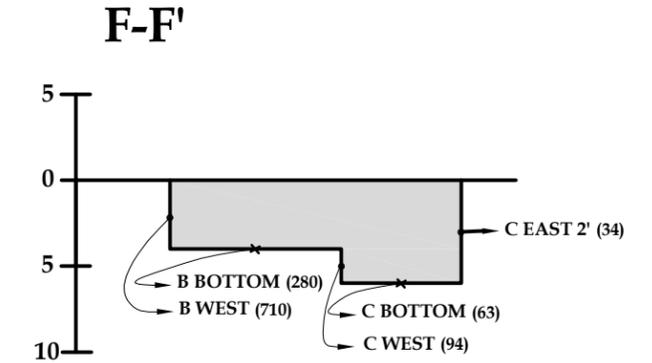
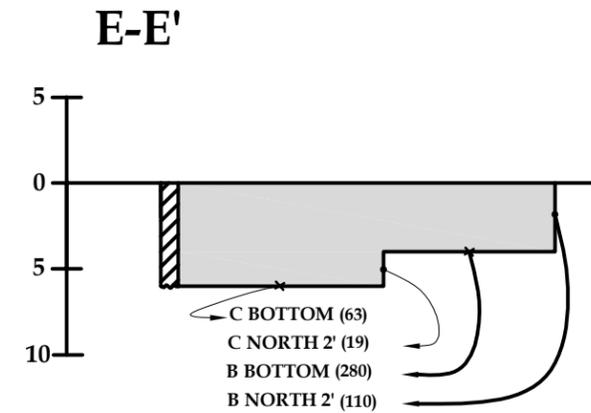
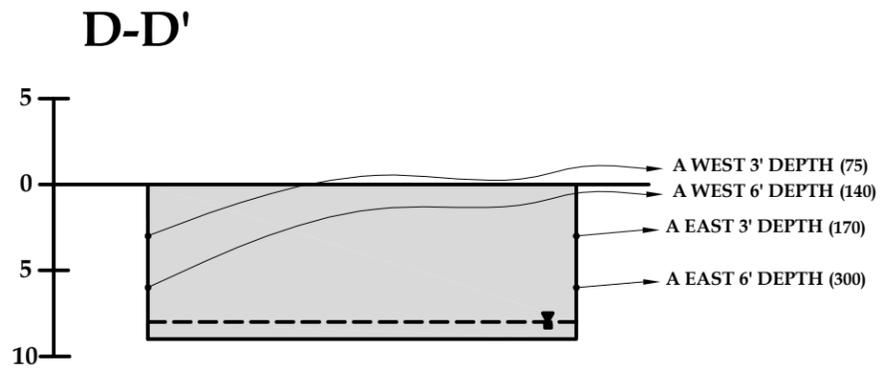
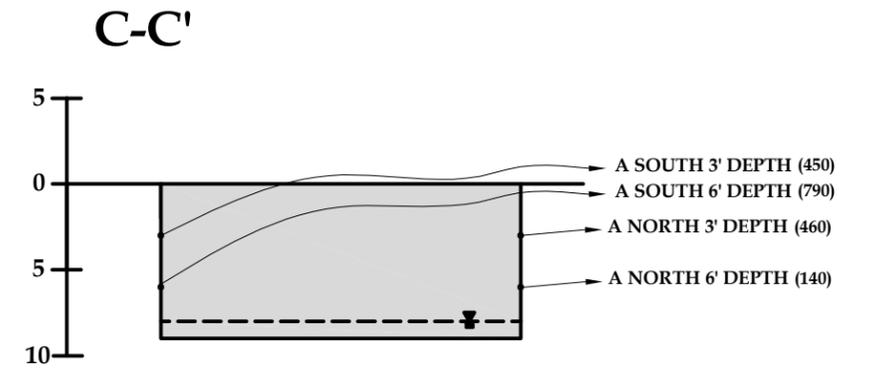
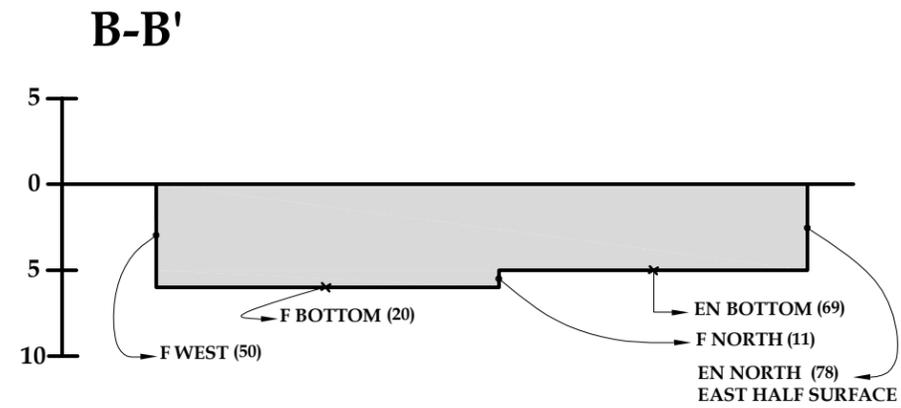
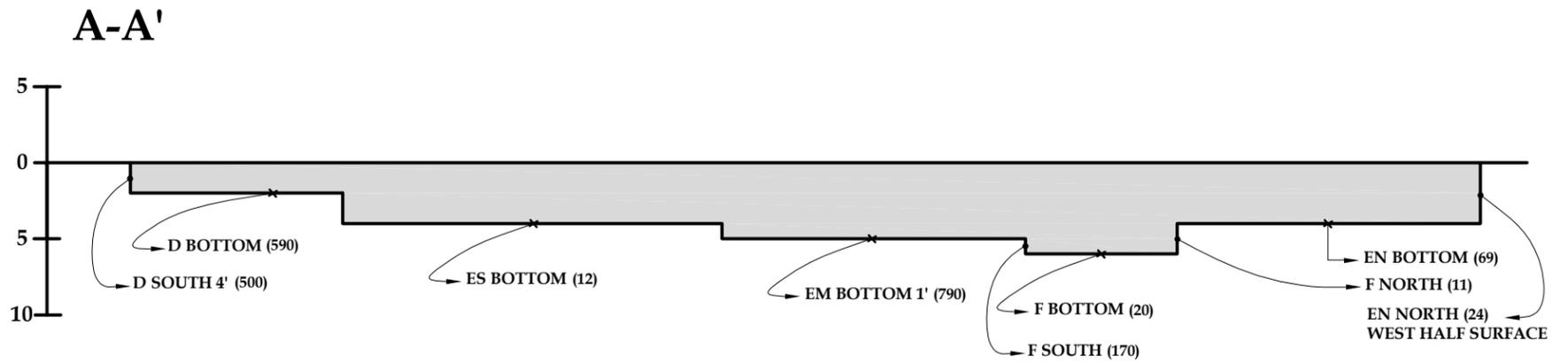
SHEET **1** OF **1**

1211103Site1.DWG 3/18/11 SPV REV 3/29/11

LEGEND

- EXCAVATION CONFIRMATION SIDEWALL SAMPLE
- x EXCAVATION CONFIRMATION BASE SAMPLE
- WATER TABLE ELEVATION
- ▨ SUBSURFACE PORTION OF BUILDING FOUNDATION
- ▭ EXCAVATED AREA

NOTE:
UNITS IN µg/kg-dry



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

VOLUNTARY COMPLIANCE STATUS REPORT

FORMER DICKIES INDUSTRIAL SERVICES, INC. COLLEGE PARK, GEORGIA

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



VERTICAL PROFILES OF TETRACHLOROETHENE IN SOIL (POST EXCAVATION)

SCALE 1:5	DATE MARCH 18, 2011
PROJECT NO. 121103	AutoCAD 2007 121103Site1.DWG

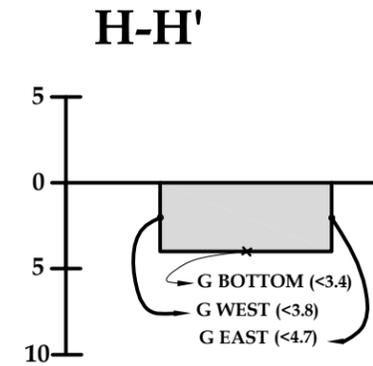
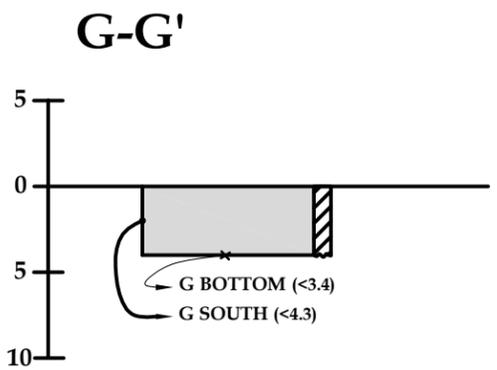
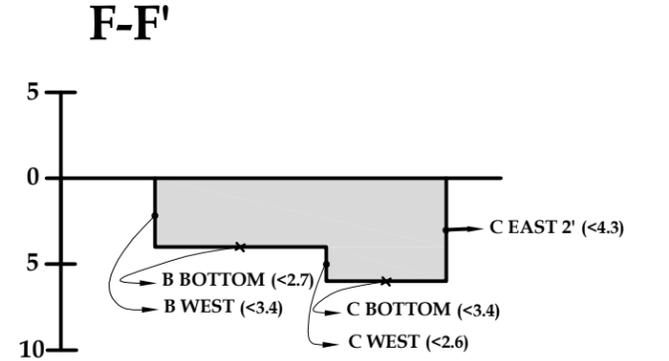
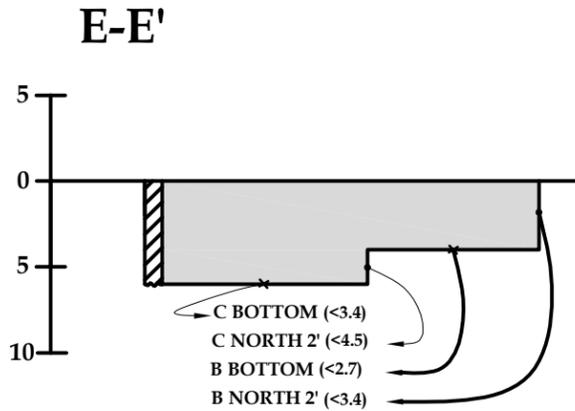
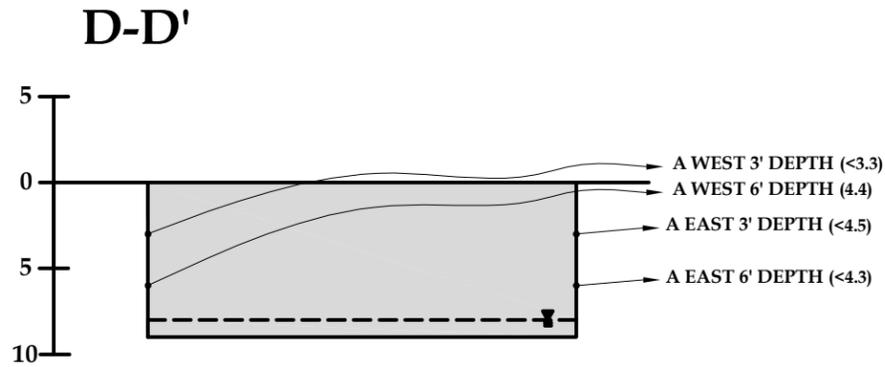
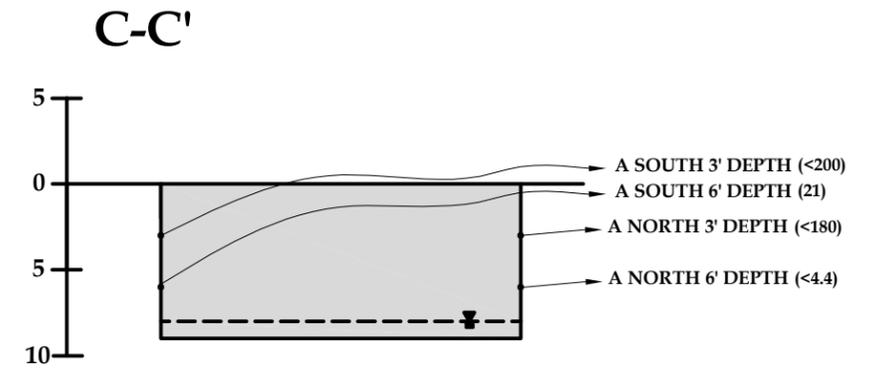
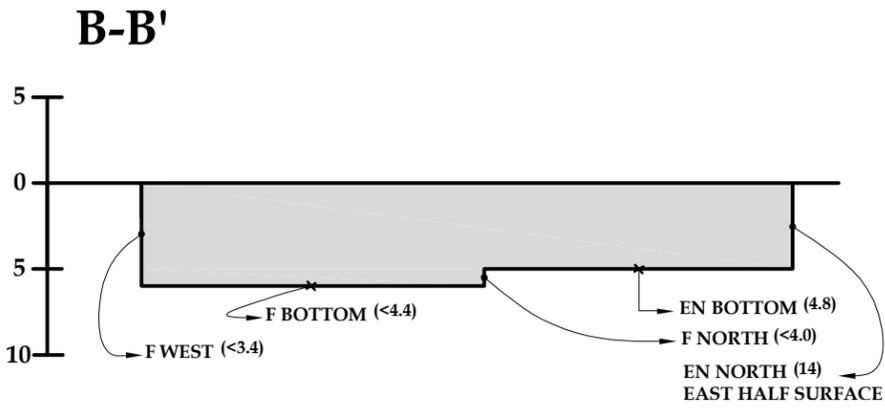
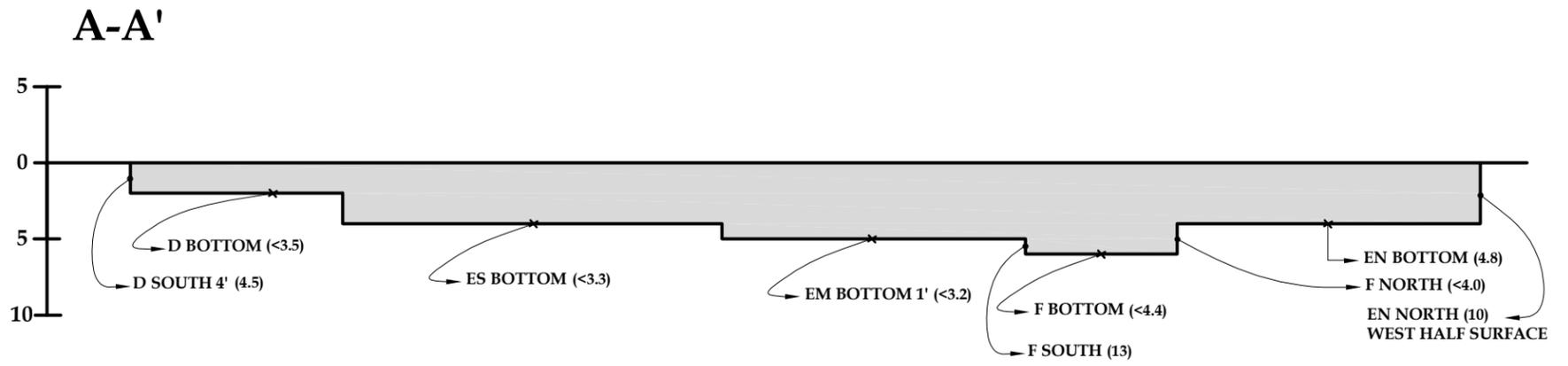
DRAWING NO. 31
REV. NO. 0
SHEET 1 OF 1

121103Site1.DWG 3/18/11 SPV

LEGEND

- EXCAVATION CONFIRMATION SIDEWALL SAMPLE
- x EXCAVATION CONFIRMATION BASE SAMPLE
- WATER TABLE ELEVATION
- WATER TABLE ELEVATION
- ▨ SUBSURFACE PORTION OF BUILDING FOUNDATION
- ▭ EXCAVATED AREA

NOTE:
UNITS IN $\mu\text{g}/\text{kg-dry}$



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

VOLUNTARY COMPLIANCE STATUS REPORT

FORMER DICKIES INDUSTRIAL SERVICES, INC. COLLEGE PARK, GEORGIA

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



VERTICAL PROFILES OF TRICHLOROETHENE IN SOIL (POST EXCAVATION)

SCALE 1:5 DATE MARCH 18, 2011

PROJECT NO. 121103 AutoCAD 2007 121103Site1.DWG

DRAWING NO. **32**

REV. NO. **0**

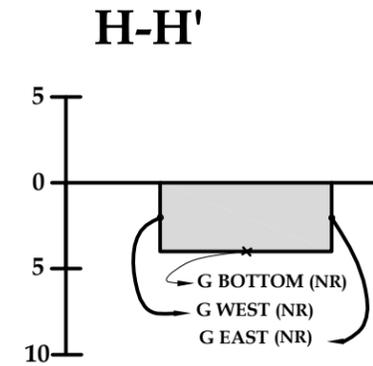
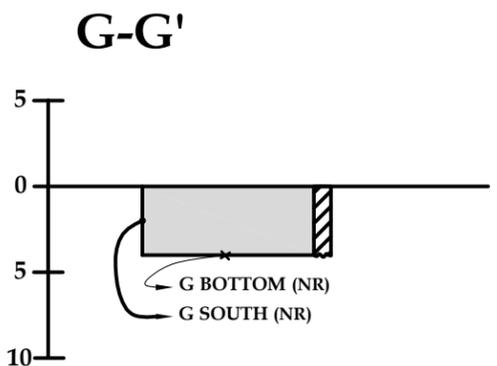
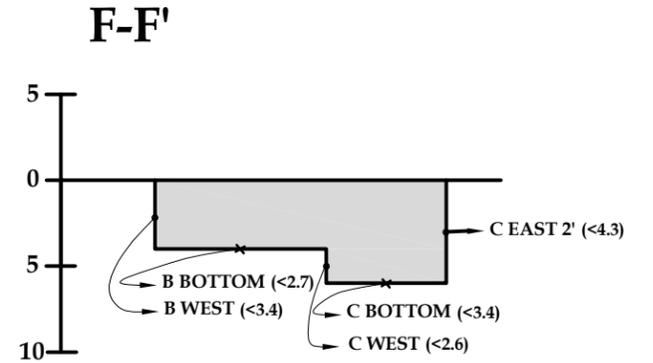
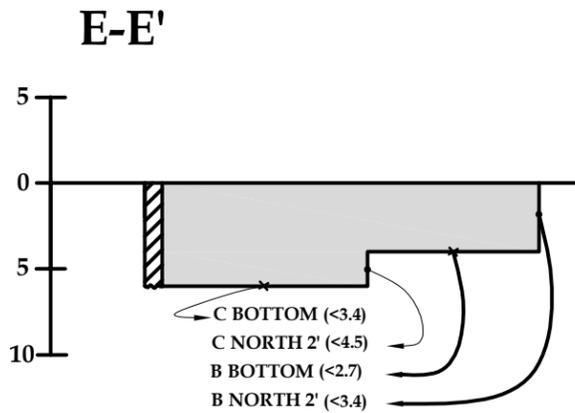
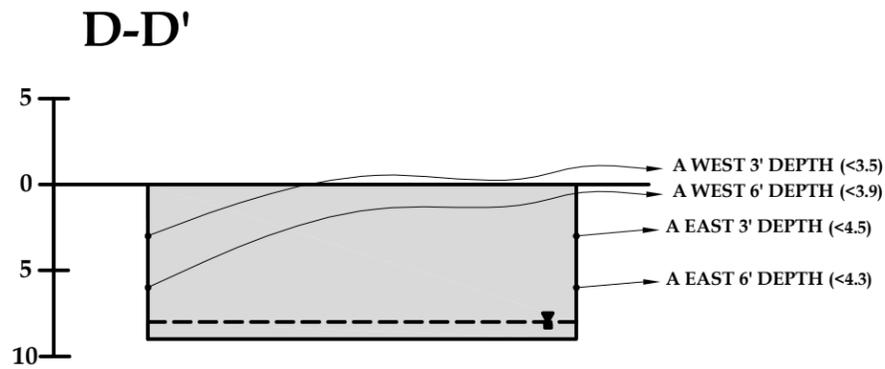
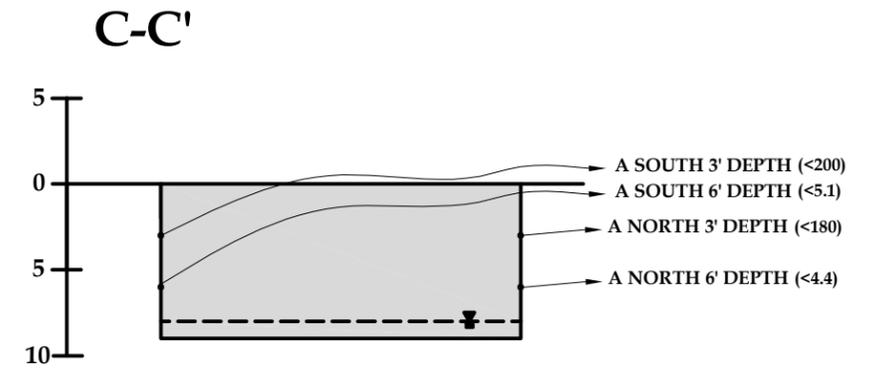
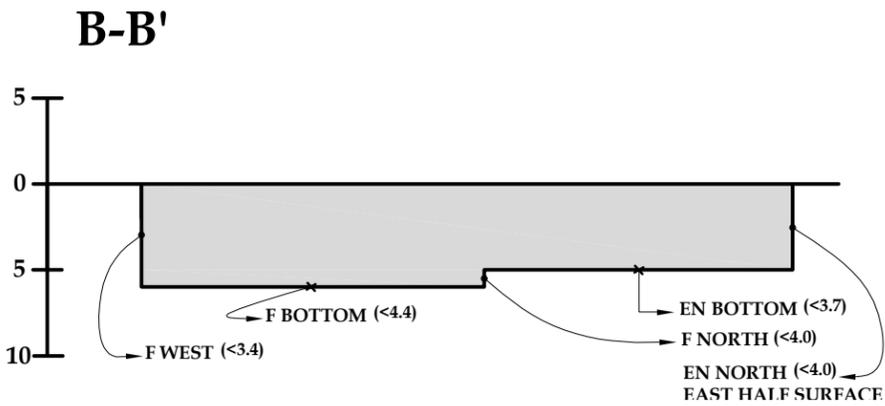
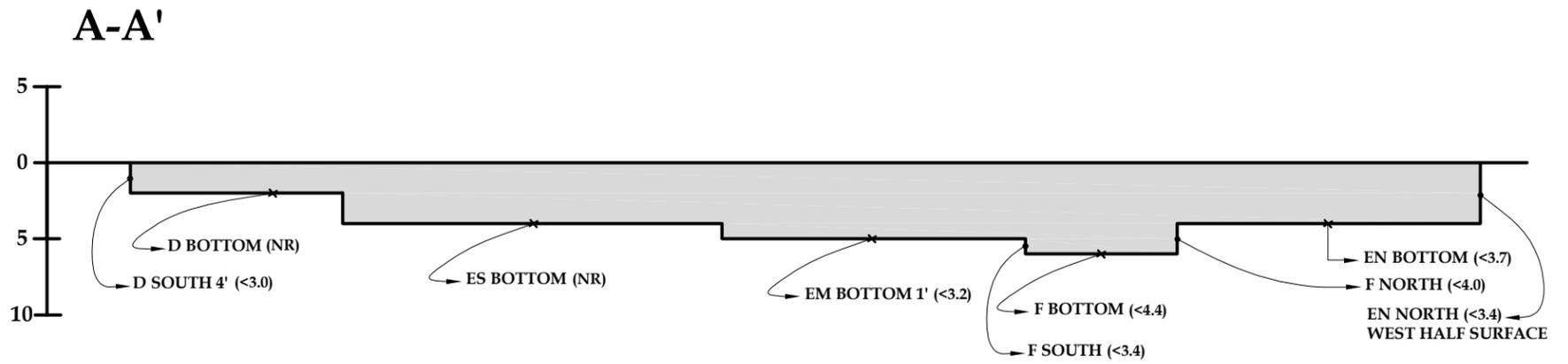
SHEET **1** OF **1**

121103Site1.DWG 3/18/11 SPV REV

LEGEND

- EXCAVATION CONFIRMATION SIDEWALL SAMPLE
- x EXCAVATION CONFIRMATION BASE SAMPLE
- WATER TABLE ELEVATION
- ▨ SUBSURFACE PORTION OF BUILDING FOUNDATION
- ▭ EXCAVATED AREA

NOTE:
UNITS IN µg/kg-dry
NR=NOT REPORTED



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

VOLUNTARY COMPLIANCE STATUS REPORT
 FORMER DICKIES INDUSTRIAL SERVICES, INC. COLLEGE PARK, GEORGIA
 DRAWN BY S. VIZUETE PROJECT ENGINEER S. THOMPSON
 DESIGN ENGINEER L. DORMAN PROJECT MANAGER S. THOMPSON



VERTICAL PROFILES OF 1,1-DICHLOROETHENE IN SOIL (POST EXCAVATION)
 SCALE 1:5 DATE MARCH 18, 2011
 PROJECT NO. 121103 AutoCAD 2007 121103Site1.DWG

DRAWING NO. **33**
 REV. NO. **0**
 SHEET **1** OF **1**

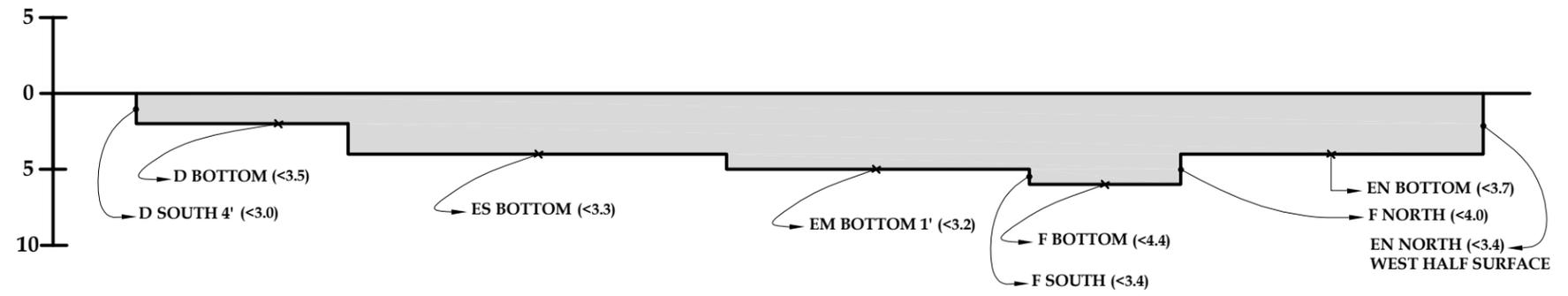
121103Site1.DWG 3/18/11 SPV REV

LEGEND

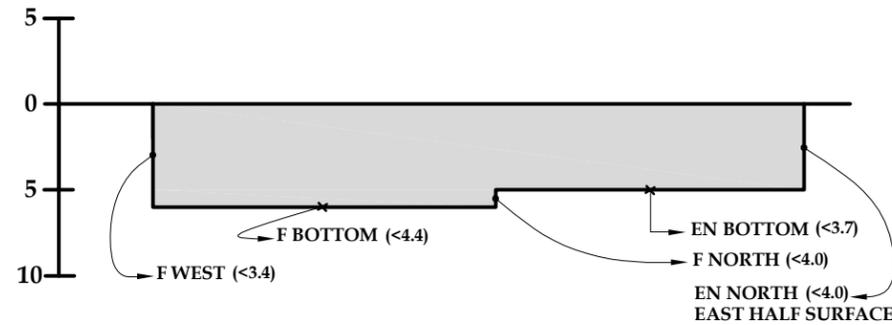
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- x EXCAVATION CONFIRMATION BASE SAMPLE
- WATER TABLE ELEVATION
- WATER TABLE ELEVATION
- ▨ SUBSURFACE PORTION OF BUILDING FOUNDATION
- ▭ EXCAVATED AREA

NOTE:
UNITS IN $\mu\text{g}/\text{kg-dry}$

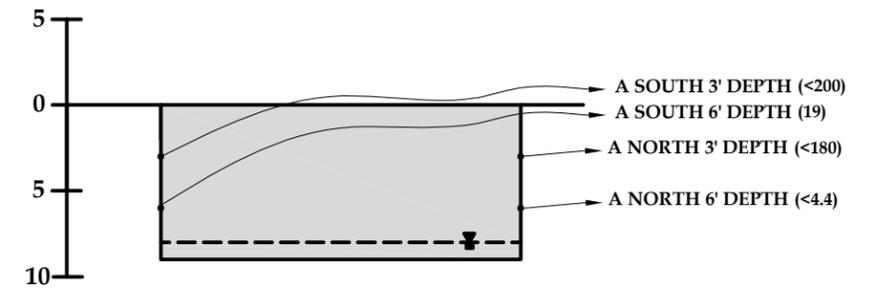
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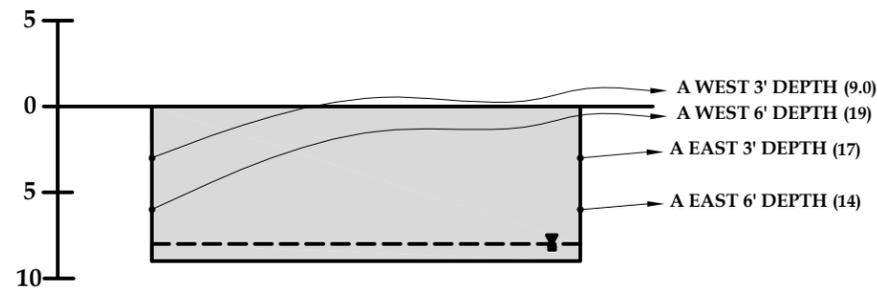
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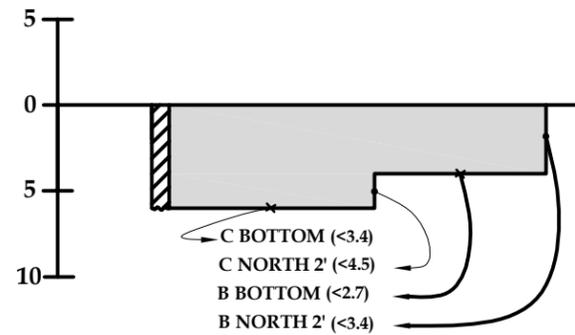
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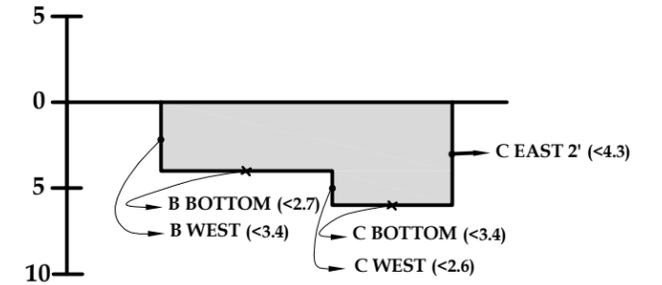
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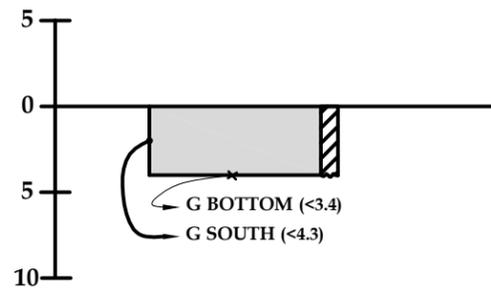
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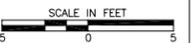
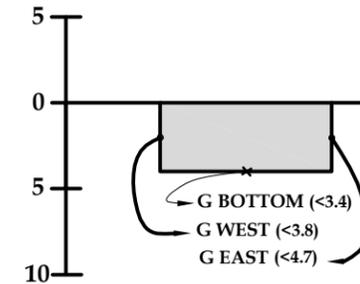
F-F'



G-G'



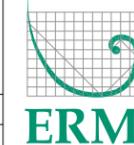
H-H'



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

VOLUNTARY COMPLIANCE STATUS REPORT

FORMER DICKIES INDUSTRIAL SERVICES, INC. COLLEGE PARK, GEORGIA
 DRAWN BY S. VIZUETE PROJECT ENGINEER S. THOMPSON
 DESIGN ENGINEER L. DORMAN PROJECT MANAGER S. THOMPSON



NOT FOR CONSTRUCTION

VERTICAL PROFILES OF CIS-1,2-DICHLOROETHENE IN SOIL (POST EXCAVATION)

SCALE 1:5 DATE MARCH 18, 2011
 PROJECT NO. 121103 AutoCAD 2007 121103Site1.DWG

DRAWING NO.

34

REV. NO.

0

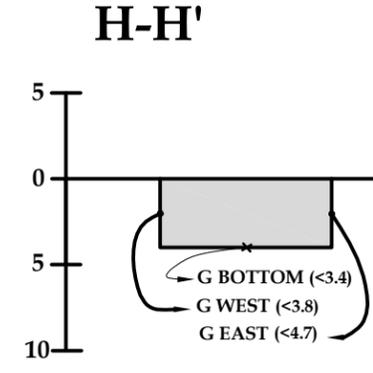
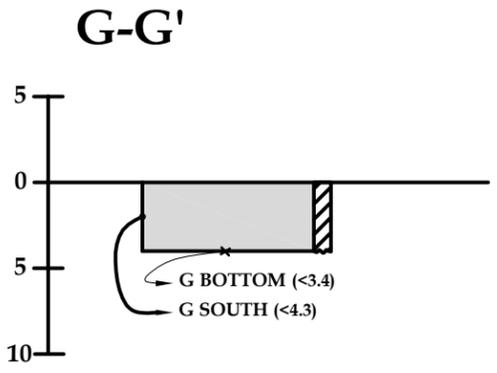
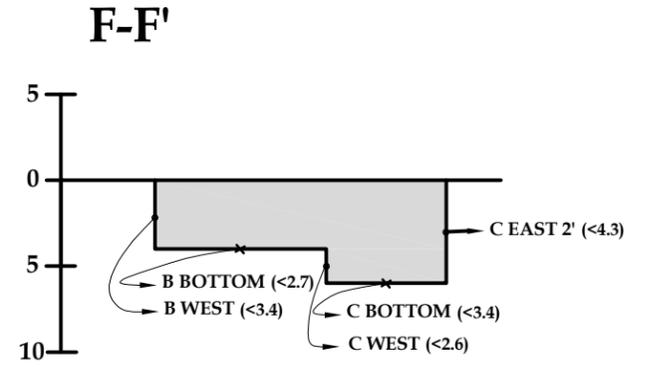
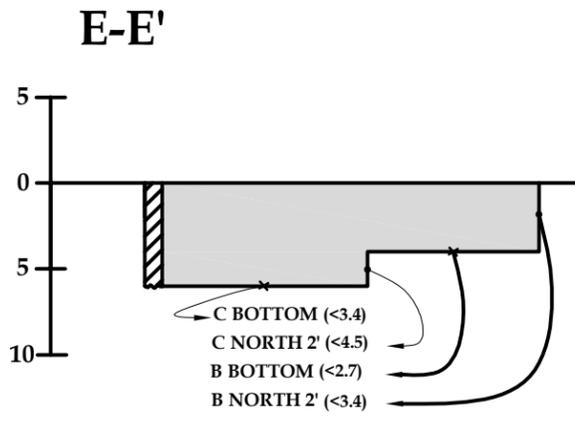
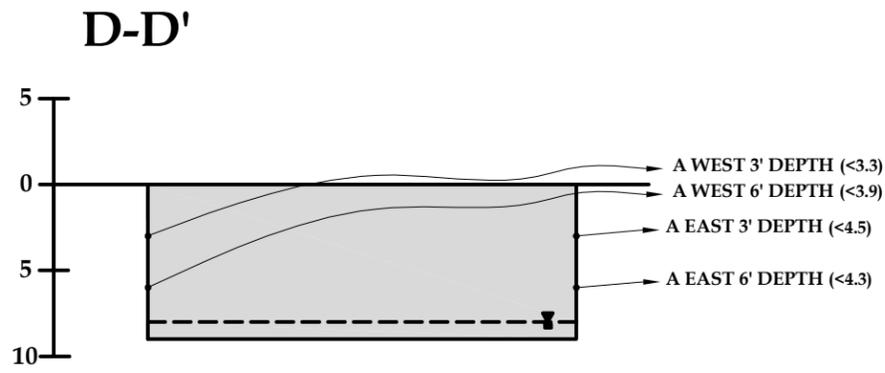
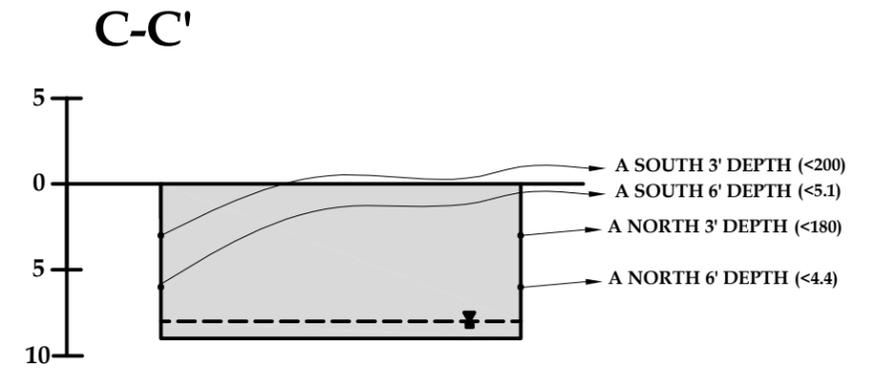
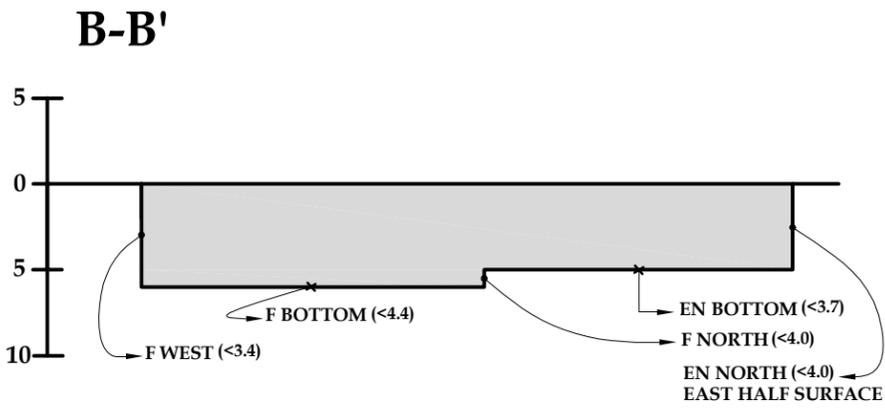
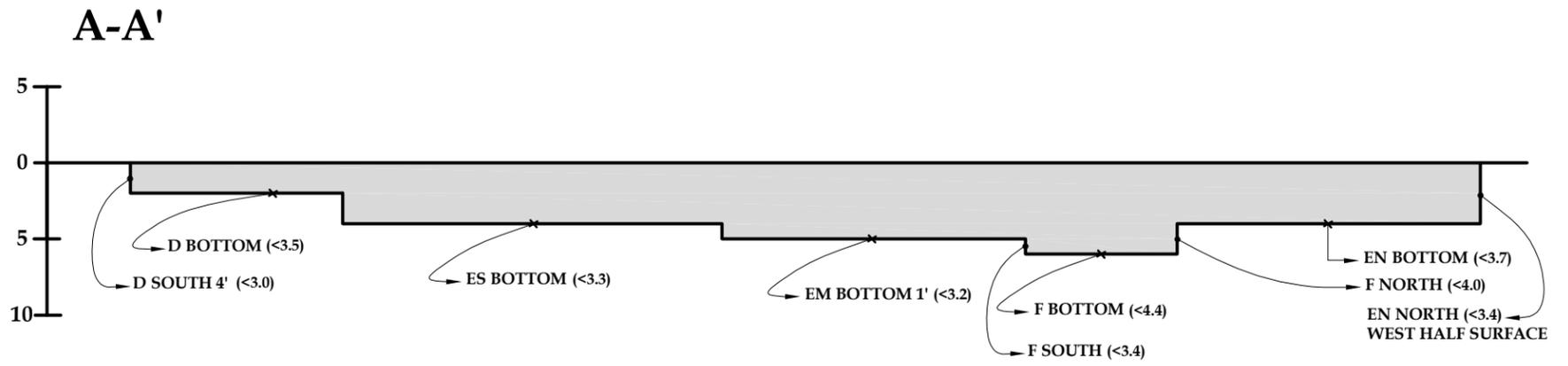
SHEET **1** OF **1**

121103Site1.DWG 3/18/11 SPV

LEGEND

- EXCAVATION CONFIRMATION SIDEWALL SAMPLE
- x EXCAVATION CONFIRMATION BASE SAMPLE
- WATER TABLE ELEVATION
- ▨ SUBSURFACE PORTION OF BUILDING FOUNDATION
- ▭ EXCAVATED AREA

NOTE:
UNITS IN µg/kg-dry



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

VOLUNTARY COMPLIANCE STATUS REPORT

FORMER DICKIES INDUSTRIAL SERVICES, INC. COLLEGE PARK, GEORGIA

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



**VERTICAL PROFILES OF
TRANS-1,2-DICHLOROETHENE IN SOIL
(POST EXCAVATION)**

SCALE 1:5 DATE MARCH 18, 2011

PROJECT NO. 121103 AutoCAD 2007 121103Site1.DWG

DRAWING NO. **35**

REV. NO. **0**

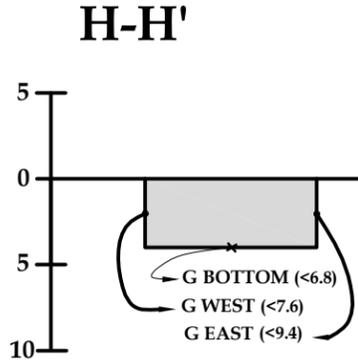
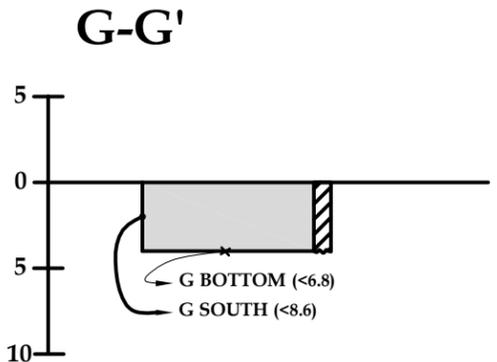
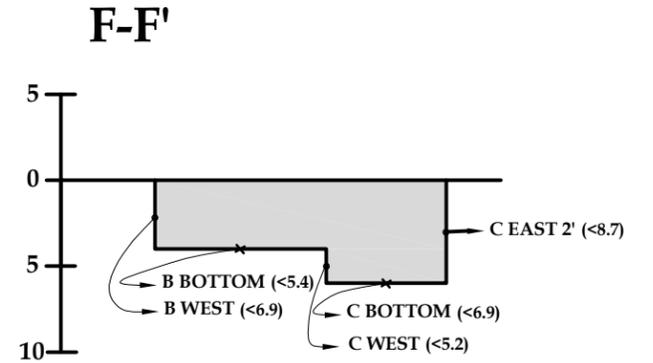
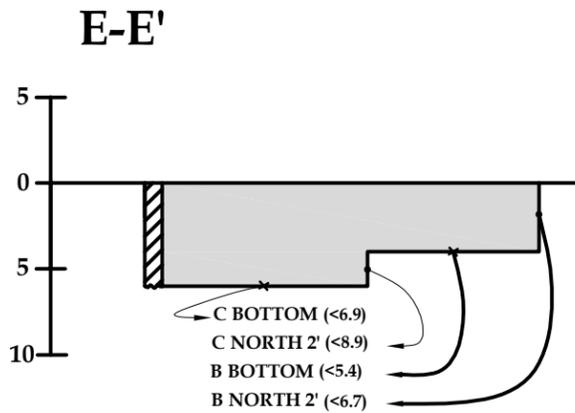
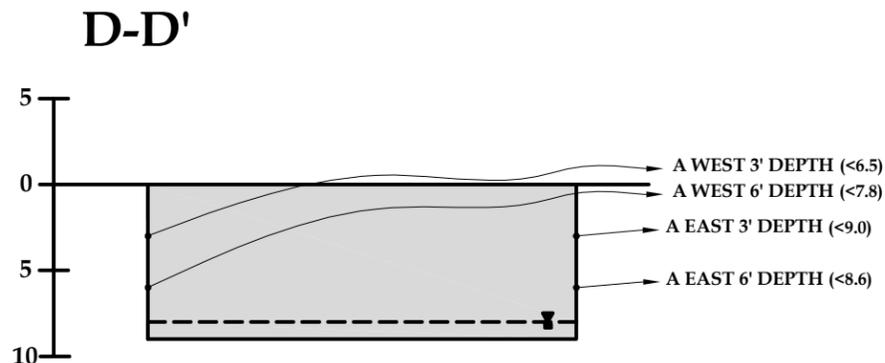
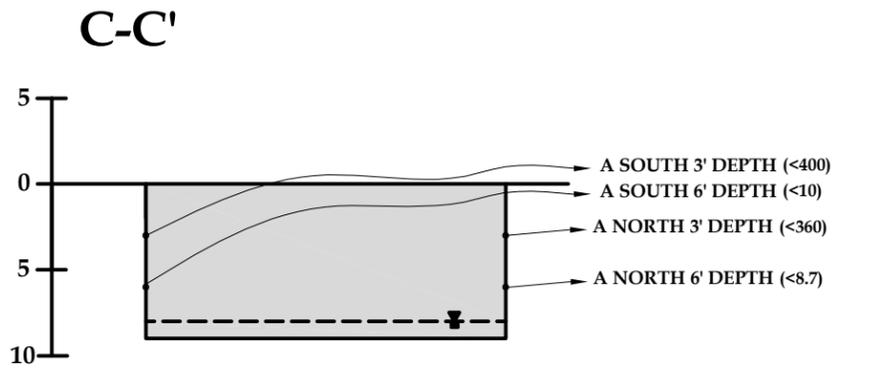
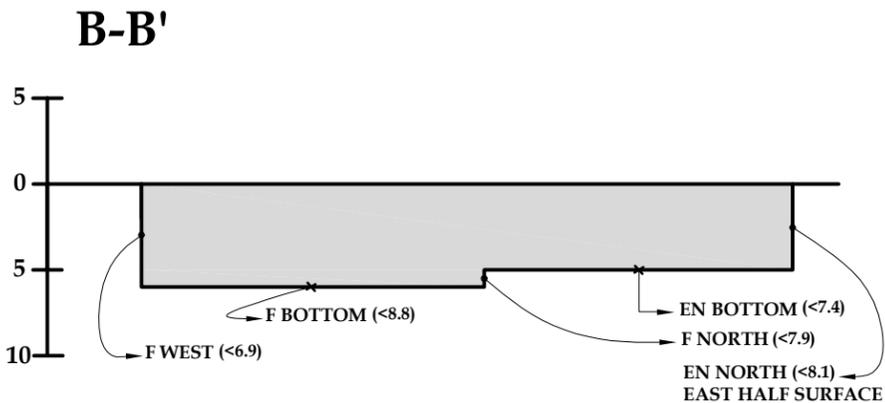
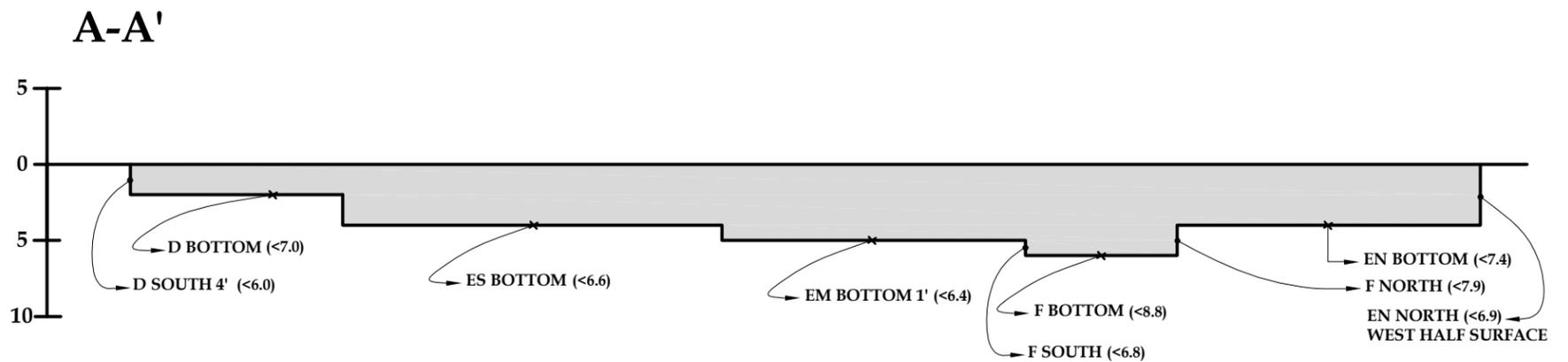
SHEET **1** OF **1**

121103Site1.DWG 3/18/11 SPV REV

LEGEND

- EXCAVATION CONFIRMATION SIDEWALL SAMPLE
- x EXCAVATION CONFIRMATION BASE SAMPLE
- WATER TABLE ELEVATION
- ▨ SUBSURFACE PORTION OF BUILDING FOUNDATION
- ▭ EXCAVATED AREA

NOTE:
UNITS IN µg/kg-dry



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

VOLUNTARY COMPLIANCE STATUS REPORT
 FORMER DICKIES INDUSTRIAL SERVICES, INC. COLLEGE PARK, GEORGIA
 DRAWN BY: S. VIZUETE PROJECT ENGINEER: S. THOMPSON
 DESIGN ENGINEER: L. DORMAN PROJECT MANAGER: S. THOMPSON



NOT FOR CONSTRUCTION

VERTICAL PROFILES OF VINYL CHLORIDE IN SOIL (POST EXCAVATION)
 SCALE: 1:5 DATE: MARCH 18, 2011
 PROJECT NO.: 121103 AutoCAD 2007 121103Site1.DWG

DRAWING NO. **36**
 REV. NO. **0**
 SHEET **1** OF **1**

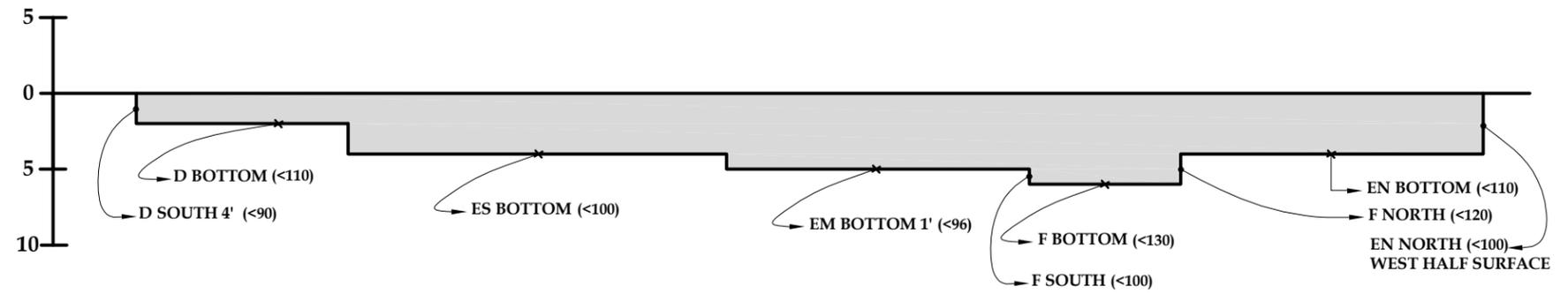
121103Site1.DWG 3/18/11 SPV REV

LEGEND

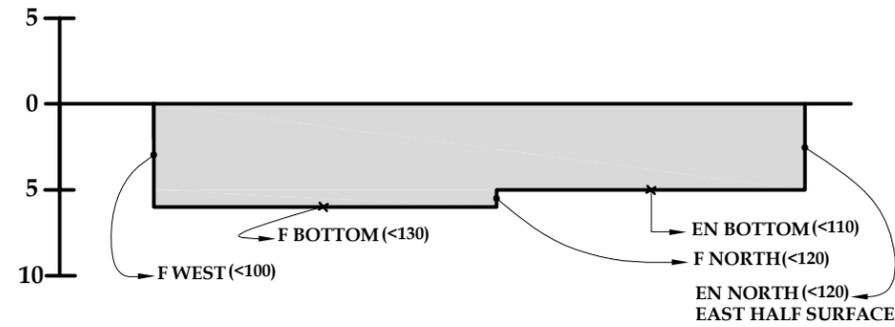
- EXCAVATION CONFIRMATION SIDEWALL SAMPLE
- x EXCAVATION CONFIRMATION BASE SAMPLE
- ▬ WATER TABLE ELEVATION
- ▨ SUBSURFACE PORTION OF BUILDING FOUNDATION
- ▭ EXCAVATED AREA

NOTE:
UNITS IN µg/kg-dry

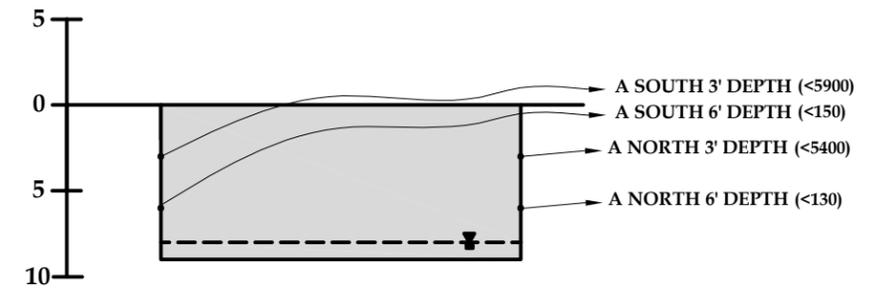
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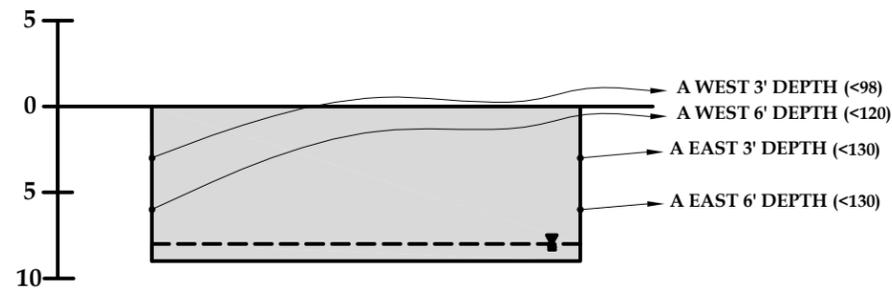
B-B'



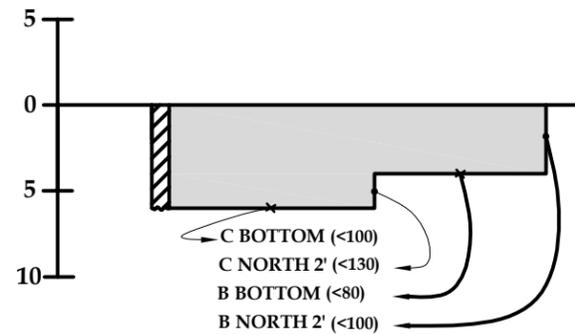
C-C'



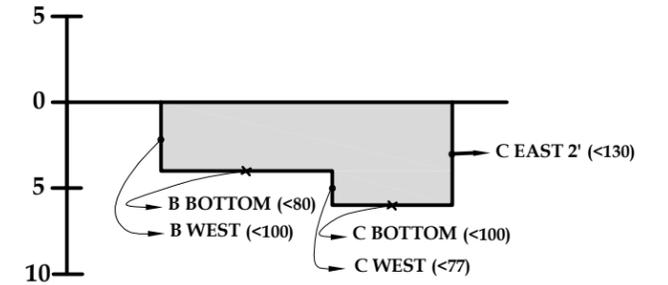
D-D'



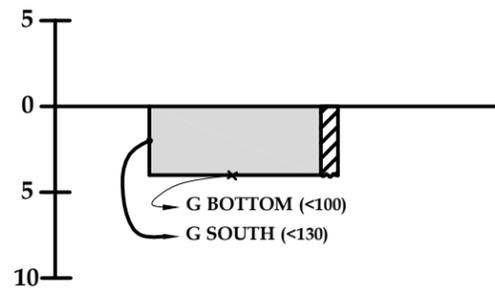
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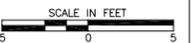
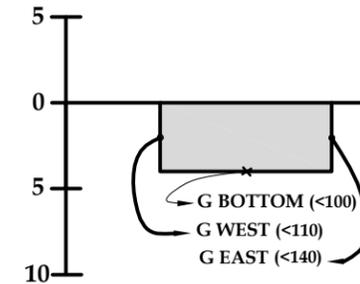
F-F'



G-G'



H-H'

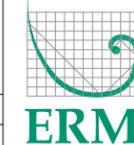


121103Site1.DWG 3/18/11 SPV REV

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

VOLUNTARY COMPLIANCE STATUS REPORT

FORMER DICKIES INDUSTRIAL SERVICES, INC. COLLEGE PARK, GEORGIA
 DRAWN BY S. VIZUETE PROJECT ENGINEER S. THOMPSON
 DESIGN ENGINEER L. DORMAN PROJECT MANAGER S. THOMPSON



NOT FOR CONSTRUCTION

VERTICAL PROFILES OF 1,4-DIOXANE IN SOIL (POST EXCAVATION)

SCALE 1:5 DATE MARCH 18, 2011
 PROJECT NO. 121103 AutoCAD 2007 121103Site1.DWG

DRAWING NO.

37

REV. NO.

0

SHEET **1** OF **1**

Appendix A

Tax Parcel Map



LEGEND

- VRP Tax Parcels
- - - - - Other Nearby Tax Parcels



**Environmental
Resources
Management**

**TAX PARCEL MAP
VOLUNTARY COMPLIANCE STATUS REPORT
FORMER DICKIES INDUSTRIAL SERVICES, INC.
COLLEGE PARK, GEORGIA**

APPENDIX

A

Appendix B

Property Owner Information

APPENDIX B
VRP TAX PARCEL DETAILS
VOLUNTARY SOMPLIANCE STATUS REPORT

Tax Parcel ID	Owner	Physical Address	Contact Person
130036LL1414	Coca-Cola Refreshments	Sullivan Road	Reginald E. Prime Coca-Cola Refreshments P.O. Box 723040 Atlanta, GA 33139-0040 (770) 989-3144
130036LL1463	Dickies Industrial Services, Inc.	2411 Sullivan Road	Joan B. Sasine, Esq. Bryan Cave One Atlantic Center Fourteenth Floor 1201 West Peachtree Street, NW Atlanta, GA 30309-3488 (404) 572-6647
130036LL1356			
130036LL1349			

Appendix C

Summary of Hours – for VRP

Appendix C

Documentation of Work Performed by the Professional Engineer Since the Previous VRP Submittal

**Dickies Industrial Services, Inc. HSI # 10127
College Park, Georgia**

Month	Number of Hours Invoiced by Shanna Thompson, P.E.	Activities Performed by Shanna Thompson, P.E. Since the Previous Submittal
May-10	89 hours	Oversee Soil Removal and Confirmation Sampling
Jun-10	86 hours	Oversee Soil Removal and Confirmation Sampling
Jul-10	35 hours	Data Management from Soil Removal Activities - Backfill, Cleaning, Documentation
Aug-10	66 hours	Draft Voluntary Compliance Status Report
Sep-10	38 hours	Oversee final soil delineation samples and survey / VCSR Revisions
Oct-10	30 hours	Oversee Annual Ground Water Sampling Event and Vapor Intrusion Assessment
Nov-10	16 hours	Oversee Vapor Intrusion Assessment
Dec-10	27 hours	Prepare Soil Removal Report
Jan-11	13 hours	Finalize Vapor Intrusion Assessment
Feb-11	21 hours	Oversee Additional Well Installation and Sampling / VCSR Modificaitons
Mar-11	66 hours	Completion and Distribution of VCSR

Appendix D

RRS Approval Information

MEMORANDUM

TO: Jacki Scarbary, Environmental Specialist
Hazardous Sites Response Program

FROM: Greg Gilmore, Geologist *GC*
Hazardous Sites Response Program

THROUGH: Antonia Beavers, Acting Unit Coordinator
Hazardous Sites Response Program

DATE: February 23, 2010

RE: Dickies Industrial Services
Email from Joan Sasine regarding Leaching Calculations
HSI# 10127

Discussion:

I have reviewed the above referenced document and offer the following comments:

Comments:

1. EPD concurs that the Soil Screening Level (SSL) value 0.877 mg/kg calculated using a default Dilution Attenuation Factor (DAF) of 20 has been shown to be protective of groundwater. This value is based on total and SPLP concentrations used to calculate a site-specific K_d value. Please continue the excavation as planned.

Notes to CO:

I cannot find out who originally calculated the site-specific K_d value in the past. I do not think that we can go back and recalculate a value that has already been determined to be protective of groundwater at the site. Since we have already approved this number in the letter dated October 12, 2005 then we should use the value provided by EPD. If the consultant would like to change the number you can have them resubmit calculations for review and at that time we can reevaluate the Total vs. SPLP data to determine if a new number is warranted.

From: "Sasine, Joan" <Joan.Sasine@BryanCave.com>
To: "'jacki.scarbary@dnr.state.ga.us'" <jacki.scarbary@dnr.state.ga.us>, "'s...
CC: 'Antonia Beavers' <Antonia.Beavers@dnr.state.ga.us>
Date: 11:48 AM 1/22/10
Subject: Dickies Industrial Services HSI Site
Attachments: bc.jpg; 2nd Report Response.pdf

Attached is a 10/12/05 letter from EPD discussing the RRS for PCE. It states on page 2 that the Kd is 8.5L/kg; the DAF is 20; and the SSL is .877mg/kg. I just want to be sure, before we begin excavating, that the Type 4 RRS for PCE approved by EPD is .877 mg/kg. I would appreciate your confirmation. Thanks so much, Joan.

[<http://www.ecave.net/marketing/sigs/WDC901/bc.jpg>]
Joan B. Sasine
Partner

One Atlantic Center | Fourteenth Floor | 1201 West Peachtree Street, NW | Atlanta, GA 30309-3488
t: 404.572.6647 | f: 404.572.6999 | e: joan.sasine@bryancave.com<mailto:joan.sasine@bryancave.com>

This electronic message is from a law firm. It may contain confidential or privileged information. If you received this transmission in error, please reply to the sender to advise of the error and delete this transmission and any attachments.

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bc1lp2010

10/12/05

Georgia Department of Natural Resources

2 Martin Luther King Jr. Drive, S.E., Suite 1462 East, Atlanta, Georgia 30334
Noel Holcomb, Commissioner
Environmental Protection Division
Carol A. Couch, Ph.D., Director
404/657-8600

October 12, 2005

CERTIFIED MAIL

Return Receipt Requested

Mr. Jack D. Riggenschach
ERM-EnvironClean, LLC
300 Chastain Center Blvd., Suite 375
Kennesaw, GA 30144

Re: Second Annual Report on Effectiveness of Corrective Action dated June 30, 2005
Your Letter dated January 7, 2005
Former Dickies Industrial Services Site
College Park, Georgia, HSI# 10127

Dear Mr. Riggenschach:

The Georgia Environmental Protection Division (EPD) has received and reviewed your letter dated January 7, 2005 regarding Soil-Water Partition Equation/calculation of SSLs and Type 4 Risk Reduction Standard (RRS) for soil and groundwater and your Second Annual Report on Effectiveness of Corrective Action (Report) dated June 30, 2005 for Former Dickies Industrial Services site. EPD provides the following comments on your Report and issues regarding Soil-Water Partition Equation/calculation of SSLs and Type 4 RRS for soil and groundwater.

Report

EPD concurs with your Conclusions and Recommendations except your proposed change for soil and groundwater sampling activities.

Soil: Please keep AS-23, AS-31, AS-39, and GP-5G as soil sampling locations, as your proposed Type 4 RRS value for tetrachloroethene has not been approved by EPD.

Groundwater: Please monitor MW-34 annually instead of biannually to better monitor the movement/change of the contamination plume.

Kd and Soil Screening Level (SSL) Calculations

In reviewing your totals vs. SPLP data in your April 15, 2004 letter for the calculation of a site-specific K_d value of tetrachloroethene, you included data sets with total concentrations outside one order of magnitude of your current calculated soil screening level (SSL) (4 mg/kg) and your previously calculated SSL (29.9 mg/kg). Since the relationship between total concentrations and SPLP data is not linear, results outside an order of magnitude of the calculated SSL will yield inaccurate results.

EPD has calculated a site-specific K_d value based on your total concentrations and SPLP concentrations for the site. Based on the site-specific data, the appropriate K_d value is 8.5 L/kg. Using a dilution attenuation factor (DAF) of 20, the SSL that is protective of groundwater is 0.877 mg/kg.

Type 4 RRS for Soil and Groundwater

The Type 4 risk reduction standards (RRSs) for chemicals in groundwater obtained by using a K factor of 0.25 L/m³ and presented in Table 2-3 of the Report, are correct except for trichloroethene. The correct Type 4 RRS for trichloroethene in groundwater should be 0.0012 mg/L instead of 0.012 mg/L on Table 2-3.

The value given for trichloroethene, calculated from RAGS equation 6, is incorrect. This value resulted from the use of a Target Risk (TR) of 10⁻⁴ instead of 10⁻⁵. The correct value for trichloroethene should be 1.33 mg/kg instead of 1.33E+01 mg/kg on Table 2-7.

If you have any questions regarding this matter, please contact Mr. Yue Han at 404-657-8600.

Sincerely,



Alexandra Y. Cleary

Unit Coordinator

Hazardous Sites Response Program

AYC/yh

cc: Joan Sasine

File: HSI# 10127

Table 1-2

*Risk Reduction Standards for Soil
Former Dickies Industrial Services, Inc.
HSI Site No. 10127
mg/kg*

Chemical	Type 3 (mg/kg)		Type 4 (mg/kg)	
	Surface Soils	Soils >2' Below Surface	Surface Soils	Soils >2' Below Surface
1,1-dichloroethene	0.7	0.7	NC	NC
cis-1,2-dichloroethene	0.5	0.5	18.9	18.9
Tetrachloroethene	0.5	0.5	.877*	.877*
Trichloroethene	0.5	0.5	0.36	0.36
Vinyl Chloride (adult)	0.2	0.2	0.03	0.03

Concentration to which site will be certified

Source: ERM letter submittal to EPD on January 7, 2005

* RRS was modified to be in compliance with the EPD letter to ERM dated October 12, 2005.

Appendix E

*Vapor Intrusion Assessment – Vapor Probe
Design and Locations*

App E - 2010 Vapor Intrusion Assessment Photo Log - HSI 10127



Photo 1



Photo 2

App E - 2010 Vapor Intrusion Assessment Photo Log - HSI 10127



Photo 3



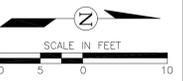
Photo 4

LEGEND

-  SUBSLAB VAPOR SAMPLE POINTS
-  PROPERTY LINE
-  SEWER LINE
-  BOUNDARY OF EXCAVATED AREA
-  EXCAVATED AREA



121103Site.DWG 10/21/2010 VAPOR INT W/P SPV REV



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

VAPOR INTRUSION WORK PLAN

FORMER DICKIES INDUSTRIAL SERVICES, INC. COLLEGE PARK, GEORGIA

DRAWN BY Y. TACKETT	PROJECT ENGINEER S. THOMPSON
DESIGN ENGINEER L. DORMAN	PROJECT MANAGER S. THOMPSON



NOT FOR CONSTRUCTION

VAPOR INTRUSION SAMPLE PROBE LOCATIONS

SCALE AS NOTED	DATE OCTOBER 21, 2010
PROJECT NO. 121103	AutoCAD 2007 121103Site.DWG

DRAWING NO.	REV. NO.
SHEET 5 OF 31	

Appendix F

*Vapor Intrusion Assessment – Laboratory
Analytical Data Reports*

11/16/2010
Mr. Lane Dorman
ERM-Southeast
300 Chastain Center Blvd. Suite 375

Kennesaw GA 30144

Project Name:
Project #:
Workorder #: 1011158

Dear Mr. Lane Dorman

The following report includes the data for the above referenced project for sample(s) received on 11/5/2010 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Ausha Scott at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Ausha Scott
Project Manager

WORK ORDER #: 1011158

Work Order Summary

CLIENT:	Mr. Lane Dorman ERM-Southeast 300 Chastain Center Blvd. Suite 375 Kennesaw, GA 30144	BILL TO:	Mr. Lane Dorman ERM-Southeast 300 Chastain Center Blvd. Suite 375 Kennesaw, GA 30144
PHONE:	770-590-8383	P.O. #	
FAX:	770-423-2151	PROJECT #	
DATE RECEIVED:	11/05/2010	CONTACT:	Ausha Scott
DATE COMPLETED:	11/12/2010		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	V-1	Modified TO-15	2.0 "Hg	5 psi
02A	V-2	Modified TO-15	2.0 "Hg	5 psi
03A	V-3	Modified TO-15	4.0 "Hg	5 psi
04A	V-3 dup	Modified TO-15	4.0 "Hg	5 psi
05A	Lab Blank	Modified TO-15	NA	NA
06A	CCV	Modified TO-15	NA	NA
07A	LCS	Modified TO-15	NA	NA
07AA	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: 

DATE: 11/16/10

Laboratory Director

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763,
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/11

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

**LABORATORY NARRATIVE
EPA Method TO-15
ERM-Southeast
Workorder# 1011158**

Four 6 Liter Summa Canister samples were received on November 05, 2010. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Receiving Notes

The Chain of Custody (COC) information for sample V-3 did not match the entry on the sample tag with regard to sample identification. The information on the COC was used to process and report the sample.

The Chain of Custody (COC) information for sample V-2 did not match the information on the canister with regard to canister identification. The client was notified of the discrepancy and the information on the canister was used to process and report the sample.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

**Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS**

Client Sample ID: V-1

Lab ID#: 1011158-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.72	3.6	4.9	24

Client Sample ID: V-2

Lab ID#: 1011158-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	0.72	1.5	3.9	8.1
Tetrachloroethene	0.72	6.0	4.9	40

Client Sample ID: V-3

Lab ID#: 1011158-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	0.78	1.6	4.2	8.8
Tetrachloroethene	0.78	35	5.2	240

Client Sample ID: V-3 dup

Lab ID#: 1011158-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	0.78	1.5	4.2	8.3
Tetrachloroethene	0.78	33	5.2	230

Client Sample ID: V-1

Lab ID#: 1011158-01A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	d111012	Date of Collection: 11/2/10 1:18:00 PM
Dil. Factor:	1.44	Date of Analysis: 11/10/10 01:16 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.72	Not Detected	1.8	Not Detected
cis-1,2-Dichloroethene	0.72	Not Detected	2.8	Not Detected
Trichloroethene	0.72	Not Detected	3.9	Not Detected
Tetrachloroethene	0.72	3.6	4.9	24
trans-1,2-Dichloroethene	0.72	Not Detected	2.8	Not Detected
1,4-Dioxane	2.9	Not Detected	10	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	98	70-130

Client Sample ID: V-2

Lab ID#: 1011158-02A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	d111013	Date of Collection: 11/2/10 1:37:00 PM
Dil. Factor:	1.44	Date of Analysis: 11/10/10 01:52 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.72	Not Detected	1.8	Not Detected
cis-1,2-Dichloroethene	0.72	Not Detected	2.8	Not Detected
Trichloroethene	0.72	1.5	3.9	8.1
Tetrachloroethene	0.72	6.0	4.9	40
trans-1,2-Dichloroethene	0.72	Not Detected	2.8	Not Detected
1,4-Dioxane	2.9	Not Detected	10	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	99	70-130

Client Sample ID: V-3

Lab ID#: 1011158-03A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	d111014	Date of Collection: 11/2/10 2:17:00 PM
Dil. Factor:	1.55	Date of Analysis: 11/10/10 02:31 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.78	Not Detected	2.0	Not Detected
cis-1,2-Dichloroethene	0.78	Not Detected	3.1	Not Detected
Trichloroethene	0.78	1.6	4.2	8.8
Tetrachloroethene	0.78	35	5.2	240
trans-1,2-Dichloroethene	0.78	Not Detected	3.1	Not Detected
1,4-Dioxane	3.1	Not Detected	11	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	101	70-130

Client Sample ID: V-3 dup

Lab ID#: 1011158-04A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	d111015	Date of Collection: 11/2/10 2:17:00 PM
Dil. Factor:	1.55	Date of Analysis: 11/10/10 03:18 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.78	Not Detected	2.0	Not Detected
cis-1,2-Dichloroethene	0.78	Not Detected	3.1	Not Detected
Trichloroethene	0.78	1.5	4.2	8.3
Tetrachloroethene	0.78	33	5.2	230
trans-1,2-Dichloroethene	0.78	Not Detected	3.1	Not Detected
1,4-Dioxane	3.1	Not Detected	11	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	95	70-130

Client Sample ID: Lab Blank

Lab ID#: 1011158-05A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	d111005a	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/10/10 08:31 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	94	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	98	70-130

Client Sample ID: CCV

Lab ID#: 1011158-06A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	d111002	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/10/10 07:20 AM

Compound	%Recovery
Vinyl Chloride	87
cis-1,2-Dichloroethene	93
Trichloroethene	84
Tetrachloroethene	85
trans-1,2-Dichloroethene	90
1,4-Dioxane	94

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	96	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	98	70-130

Client Sample ID: LCS

Lab ID#: 1011158-07A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	d111003	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/10/10 07:41 AM

Compound	%Recovery
Vinyl Chloride	93
cis-1,2-Dichloroethene	94
Trichloroethene	90
Tetrachloroethene	91
trans-1,2-Dichloroethene	91
1,4-Dioxane	103

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	93	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	99	70-130

Client Sample ID: LCSD

Lab ID#: 1011158-07AA

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	d111004	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/10/10 08:00 AM

Compound	%Recovery
Vinyl Chloride	90
cis-1,2-Dichloroethene	96
Trichloroethene	88
Tetrachloroethene	91
trans-1,2-Dichloroethene	91
1,4-Dioxane	98

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	95	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	99	70-130

Appendix G

*Vapor Intrusion Assessment – Modeling Input
and Output*

DATA ENTRY SHEET

GW-SCREEN
Version 3.1; 02/04

Reset to
Defaults

CALCULATE RISK-BASED GROUNDWATER CONCENTRATION (enter "X" in "YES" box)

YES

OR

CALCULATE INCREMENTAL RISKS FROM ACTUAL GROUNDWATER CONCENTRATION
(enter "X" in "YES" box and initial groundwater conc. below)

YES

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Initial groundwater conc., C_w ($\mu\text{g/L}$)	Chemical
127184	1.10E+02	Tetrachloroethylene

MORE
↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Depth below grade to water table, L_{WT} (cm)	ENTER SCS soil type directly above water table	ENTER Average soil/ groundwater temperature, T_s ($^{\circ}\text{C}$)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
200	807.72	SI	18.3333	

MORE
↓

ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2)	ENTER Vadose zone SCS soil type <input type="button" value="Lookup Soil
Parameters"/>	ENTER Vadose zone soil dry bulk density, ρ_b^v (g/cm^3)	ENTER Vadose zone soil total porosity, n^v (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^v (cm^3/cm^3)
SI			SI	1.35	0.489	0.167

MORE
↓

ENTER Target risk for carcinogens, TR (unitless)	ENTER Target hazard quotient for noncarcinogens, THQ (unitless)	ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
1.0E-06	1	70	30	30	350

Used to calculate risk-based
groundwater concentration.

END

RESULTS SHEET

RISK-BASED GROUNDWATER CONCENTRATION CALCULATIONS:

Indoor exposure groundwater conc., carcinogen (µg/L)	Indoor exposure groundwater conc., noncarcinogen (µg/L)	Risk-based indoor exposure groundwater conc., (µg/L)	Pure component water solubility, S (µg/L)	Final indoor exposure groundwater conc., (µg/L)
NA	NA	NA	2.00E+05	NA

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
7.0E-06	4.6E-03

MESSAGE SUMMARY BELOW:

END

DATA ENTRY SHEET

GW-SCREEN
Version 3.1; 02/04

Reset to
Defaults

CALCULATE RISK-BASED GROUNDWATER CONCENTRATION (enter "X" in "YES" box)

YES

OR

CALCULATE INCREMENTAL RISKS FROM ACTUAL GROUNDWATER CONCENTRATION
(enter "X" in "YES" box and initial groundwater conc. below)

YES

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Initial groundwater conc., C_w ($\mu\text{g/L}$)	Chemical
79016	6.20E+00	Trichloroethylene

MORE
↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Depth below grade to water table, L_{WT} (cm)	ENTER SCS soil type directly above water table	ENTER Average soil/ groundwater temperature, T_s ($^{\circ}\text{C}$)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
200	807.72	SI	18.3333	

MORE
↓

ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2)	ENTER Vadose zone SCS soil type Lookup Soil Parameters	ENTER Vadose zone soil dry bulk density, ρ_b^v (g/cm^3)	ENTER Vadose zone soil total porosity, n^v (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^v (cm^3/cm^3)
SI			SI	1.35	0.489	0.167

MORE
↓

ENTER Target risk for carcinogens, TR (unitless)	ENTER Target hazard quotient for noncarcinogens, THQ (unitless)	ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
1.0E-06	1	70	30	30	350

Used to calculate risk-based
groundwater concentration.

END

RESULTS SHEET

RISK-BASED GROUNDWATER CONCENTRATION CALCULATIONS:

Indoor exposure groundwater conc., carcinogen (µg/L)	Indoor exposure groundwater conc., noncarcinogen (µg/L)	Risk-based indoor exposure groundwater conc., (µg/L)	Pure component water solubility, S (µg/L)	Final indoor exposure groundwater conc., (µg/L)
NA	NA	NA	1.47E+06	NA

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
4.6E-06	2.4E-03

MESSAGE SUMMARY BELOW:

MESSAGE: Risk/HQ or risk-based groundwater concentration is based on a route-to-route extrapolation.

END

Appendix H

*Soil Analytical Data – Additional 2010 Samples
to Delineate West Boundary*



October 01, 2010

Shanna Thompson
ERM-Southeast
300 Chastain Center Blvd, Suite 375
Kennesaw GA 30144

TEL: (770) 590-8383
FAX: (770) 590-9164

RE: Williamson Dickie

Dear Shanna Thompson:

Order No: 1009I42

Analytical Environmental Services, Inc. received 5 samples on September 24, 2010 11:05 am for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/10-06/30/11.
- AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/11.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Brian Rohr
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3785 Presidential Parkway, Atlanta GA 30340-3704

AES

TEL: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1009342

Date: 9/23/10 Page 1 of 1

COMPANY: ERM		ADDRESS: 300 Chastain Center Blvd, Ste 375, Kennesaw, GA 30144				ANALYSIS REQUESTED						Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.		No # of Containers			
PHONE: (770) 590-8383		FAX: (770) 590-9164				820015 (Short List): PCE TCE 1,1-DCE 1,2-DCE VC 1,4-Dioxane						REMARKS					
SAMPLED BY: Joe Tan		SIGNATURE: <i>Joe Tan</i>				PRESERVATION (See codes)											
#	SAMPLE ID	DATE	TIME	Grab	Composite	Matrix (See codes)	S/M+I+NA										
1	ERM-SB-A-4	9/23/10	1055	✓		SO	✓										4
2	ERM-SB-A-8	↓	1105	↓		↓	↓										↓
3	ERM-SB-B-8	↓	1015	↓		↓	↓										↓
4	ERM-SB-C-4	↓	0930	↓		↓	↓										↓
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
RELINQUISHED BY		DATE/TIME		RECEIVED BY		DATE/TIME		PROJECT INFORMATION						RECEIPT			
1. <i>Joe Tan</i>		9/23/10 1300		1. <i>[Signature]</i>		9-24-10 10:05		PROJECT NAME: Williamson Pickie						Total # of Containers: 16			
2. <i>[Signature]</i>		9-24-10 11:05		2. <i>[Signature]</i>		9/24/10 11:05		PROJECT #:						Turnaround Time Request			
3.				3.				SITE ADDRESS: 2411 Sullivan Rd, College Park, GA						<input checked="" type="radio"/> Standard 5 Business Days			
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD		OUT 9/23/10		VIA:		SEND REPORT TO: Shatna Thompson						<input type="radio"/> 2 Business Day Rush			
		IN / /		VIA:		CLIENT FedEx UPS MAIL COURIER		INVOICE TO: (IF DIFFERENT FROM ABOVE)						<input type="radio"/> Next Business Day Rush			
		GREYHOUND OTHER						QUOTE #:						<input type="radio"/> Same Day Rush (auth req.)			
								PO#:						<input type="radio"/> Other			
														STATE PROGRAM (if any):			
														E-mail? <input checked="" type="radio"/> N, Fax? <input checked="" type="radio"/> N			
														DATA PACKAGE: I II III IV			

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT. SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water

PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

Client: ERM-Southeast
Project: Williamson Dickie
Lab ID: 1009I42

Case Narrative

Sample Receiving Nonconformance:

A Trip Blank was provided but not listed on the Chain of Custody. The trip blank was analyzed at no cost to the client.

Analytical Environmental Services, Inc

Date: 1-Oct-10

Client: ERM-Southeast	Client Sample ID: ERM-SB-A-4
Project: Williamson Dickie	Collection Date: 9/23/2010 10:55:00 AM
Lab ID: 1009142-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5035)				
1,4-Dioxane	BRL	180		ug/Kg-dry	135698	1	09/29/2010 17:53	GK
Vinyl chloride	BRL	12		ug/Kg-dry	135698	1	09/29/2010 17:53	GK
1,1-Dichloroethene	BRL	6.0		ug/Kg-dry	135698	1	09/29/2010 17:53	GK
trans-1,2-Dichloroethene	BRL	6.0		ug/Kg-dry	135698	1	09/29/2010 17:53	GK
cis-1,2-Dichloroethene	BRL	6.0		ug/Kg-dry	135698	1	09/29/2010 17:53	GK
Trichloroethene	BRL	6.0		ug/Kg-dry	135698	1	09/29/2010 17:53	GK
Tetrachloroethene	BRL	6.0		ug/Kg-dry	135698	1	09/29/2010 17:53	GK
Surr: 4-Bromofluorobenzene	94.6	58.2-140		%REC	135698	1	09/29/2010 17:53	GK
Surr: Dibromofluoromethane	102	71.1-132		%REC	135698	1	09/29/2010 17:53	GK
Surr: Toluene-d8	96.2	77.6-119		%REC	135698	1	09/29/2010 17:53	GK
PERCENT MOISTURE D2216								
Percent Moisture	14.1	0		wt%	R181271	1	09/29/2010 13:00	AS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value

Analytical Environmental Services, Inc

Date: 1-Oct-10

Client: ERM-Southeast	Client Sample ID: ERM-SB-A-8
Project: Williamson Dickie	Collection Date: 9/23/2010 11:05:00 AM
Lab ID: 1009142-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5035)								
1,4-Dioxane	BRL	170		ug/Kg-dry	135698	1	09/29/2010 19:17	GK
Vinyl chloride	BRL	11		ug/Kg-dry	135698	1	09/29/2010 19:17	GK
1,1-Dichloroethene	BRL	5.6		ug/Kg-dry	135698	1	09/29/2010 19:17	GK
trans-1,2-Dichloroethene	BRL	5.6		ug/Kg-dry	135698	1	09/29/2010 19:17	GK
cis-1,2-Dichloroethene	BRL	5.6		ug/Kg-dry	135698	1	09/29/2010 19:17	GK
Trichloroethene	BRL	5.6		ug/Kg-dry	135698	1	09/29/2010 19:17	GK
Tetrachloroethene	BRL	5.6		ug/Kg-dry	135698	1	09/29/2010 19:17	GK
Surr: 4-Bromofluorobenzene	92.5	58.2-140		%REC	135698	1	09/29/2010 19:17	GK
Surr: Dibromofluoromethane	101	71.1-132		%REC	135698	1	09/29/2010 19:17	GK
Surr: Toluene-d8	96.3	77.6-119		%REC	135698	1	09/29/2010 19:17	GK
PERCENT MOISTURE D2216								
Percent Moisture	16.5	0		wt%	R181271	1	09/29/2010 13:00	AS

Qualifiers:

* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
BRL Below reporting limit	S Spike Recovery outside limits due to matrix
H Holding times for preparation or analysis exceeded	Narr See case narrative
N Analyte not NELAC certified	NC Not confirmed
B Analyte detected in the associated method blank	< Less than Result value
> Greater than Result value	

Analytical Environmental Services, Inc

Date: 1-Oct-10

Client: ERM-Southeast	Client Sample ID: ERM-SB-B-8
Project: Williamson Dickie	Collection Date: 9/23/2010 10:15:00 AM
Lab ID: 1009142-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5035)								
1,4-Dioxane	BRL	150		ug/Kg-dry	135698	1	09/29/2010 19:48	GK
Vinyl chloride	BRL	9.9		ug/Kg-dry	135698	1	09/29/2010 19:48	GK
1,1-Dichloroethene	BRL	4.9		ug/Kg-dry	135698	1	09/29/2010 19:48	GK
trans-1,2-Dichloroethene	BRL	4.9		ug/Kg-dry	135698	1	09/29/2010 19:48	GK
cis-1,2-Dichloroethene	BRL	4.9		ug/Kg-dry	135698	1	09/29/2010 19:48	GK
Trichloroethene	BRL	4.9		ug/Kg-dry	135698	1	09/29/2010 19:48	GK
Tetrachloroethene	BRL	4.9		ug/Kg-dry	135698	1	09/29/2010 19:48	GK
Surr: 4-Bromofluorobenzene	93.3	58.2-140		%REC	135698	1	09/29/2010 19:48	GK
Surr: Dibromofluoromethane	102	71.1-132		%REC	135698	1	09/29/2010 19:48	GK
Surr: Toluene-d8	96.1	77.6-119		%REC	135698	1	09/29/2010 19:48	GK
PERCENT MOISTURE D2216								
Percent Moisture	16.5	0		wt%	R181271	1	09/29/2010 13:00	AS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value

Analytical Environmental Services, Inc

Date: 1-Oct-10

Client: ERM-Southeast	Client Sample ID: ERM-SB-C-4
Project: Williamson Dickie	Collection Date: 9/23/2010 9:30:00 AM
Lab ID: 1009142-004	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5035)								
1,4-Dioxane	BRL	150		ug/Kg-dry	135698	1	09/29/2010 20:18	GK
Vinyl chloride	BRL	10		ug/Kg-dry	135698	1	09/29/2010 20:18	GK
1,1-Dichloroethene	BRL	5.0		ug/Kg-dry	135698	1	09/29/2010 20:18	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/Kg-dry	135698	1	09/29/2010 20:18	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/Kg-dry	135698	1	09/29/2010 20:18	GK
Trichloroethene	BRL	5.0		ug/Kg-dry	135698	1	09/29/2010 20:18	GK
Tetrachloroethene	6.0	5.0		ug/Kg-dry	135698	1	09/29/2010 20:18	GK
Surr: 4-Bromofluorobenzene	88.8	58.2-140		%REC	135698	1	09/29/2010 20:18	GK
Surr: Dibromofluoromethane	102	71.1-132		%REC	135698	1	09/29/2010 20:18	GK
Surr: Toluene-d8	95.6	77.6-119		%REC	135698	1	09/29/2010 20:18	GK
PERCENT MOISTURE D2216								
Percent Moisture	13.8	0		wt%	R181271	1	09/29/2010 13:00	AS

Qualifiers:

* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
BRL Below reporting limit	S Spike Recovery outside limits due to matrix
H Holding times for preparation or analysis exceeded	Narr See case narrative
N Analyte not NELAC certified	NC Not confirmed
B Analyte detected in the associated method blank	< Less than Result value
> Greater than Result value	

Client: ERM-Southeast	Client Sample ID: TRIP BLANK
Project: Williamson Dickie	Collection Date: 9/24/2010
Lab ID: 1009142-005	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,4-Dioxane	BRL	150		ug/L	135636	1	09/28/2010 16:12	GK
Vinyl chloride	BRL	2.0		ug/L	135636	1	09/28/2010 16:12	GK
1,1-Dichloroethene	BRL	5.0		ug/L	135636	1	09/28/2010 16:12	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	135636	1	09/28/2010 16:12	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	135636	1	09/28/2010 16:12	GK
Trichloroethene	BRL	5.0		ug/L	135636	1	09/28/2010 16:12	GK
Tetrachloroethene	BRL	5.0		ug/L	135636	1	09/28/2010 16:12	GK
Surr: 4-Bromofluorobenzene	89.6	60.1-127		%REC	135636	1	09/28/2010 16:12	GK
Surr: Dibromofluoromethane	107	79.6-126		%REC	135636	1	09/28/2010 16:12	GK
Surr: Toluene-d8	96.3	78-116		%REC	135636	1	09/28/2010 16:12	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client ERM Work Order Number 1009I42

Checklist completed by PLM Signature Date 9/24/10

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present
Custody seals intact on shipping container/cooler? Yes No Not Present
Custody seals intact on sample bottles? Yes No Not Present

Container/Temp Blank temperature in compliance? (4°C±2)* Yes No
Cooler #1 3.4°C Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes No
Chain of custody signed when relinquished and received? Yes No
Chain of custody agrees with sample labels? Yes No
Samples in proper container/bottle? Yes No
Sample containers intact? Yes No
Sufficient sample volume for indicated test? Yes No
All samples received within holding time? Yes No
Was TAT marked on the COC? Yes No
Proceed with Standard TAT as per project history? Yes No Not Applicable
Water - VOA vials have zero headspace? No VOA vials submitted Yes No
Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by _____
Sample Condition: Good Other(Explain) _____
(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: ERM-Southeast
Project Name: Williamson Dickie
Workorder: 1009I42

ANALYTICAL QC SUMMARY REPORT

BatchID: 135636

Sample ID: MB-135636	Client ID:	Units: ug/L	Prep Date: 09/28/2010	Run No: 181090							
SampleType: MBLK	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 135636	Analysis Date: 09/28/2010	Seq No: 3768672							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	0
1,4-Dioxane	BRL	150	0	0	0	0	0	0	0	0	0
cis-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	0
Tetrachloroethene	BRL	5.0	0	0	0	0	0	0	0	0	0
trans-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	0
Trichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	0
Vinyl chloride	BRL	2.0	0	0	0	0	0	0	0	0	0
Surr: 4-Bromofluorobenzene	45.59	0	50	0	91.2	60.1	127	0	0	0	0
Surr: Dibromofluoromethane	51.15	0	50	0	102	79.6	126	0	0	0	0
Surr: Toluene-d8	47.30	0	50	0	94.6	78	116	0	0	0	0

Sample ID: LCS-135636	Client ID:	Units: ug/L	Prep Date: 09/28/2010	Run No: 181090							
SampleType: LCS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 135636	Analysis Date: 09/28/2010	Seq No: 3768671							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	52.40	5.0	50	0	105	61.4	146	0	0	0	0
Trichloroethene	44.89	5.0	50	0	89.8	74.4	130	0	0	0	0
Surr: 4-Bromofluorobenzene	47.77	0	50	0	95.5	60.1	127	0	0	0	0
Surr: Dibromofluoromethane	52.95	0	50	0	106	79.6	126	0	0	0	0
Surr: Toluene-d8	50.17	0	50	0	100	78	116	0	0	0	0

Sample ID: 1009J06-001AMS	Client ID:	Units: ug/L	Prep Date: 09/28/2010	Run No: 181090							
SampleType: MS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 135636	Analysis Date: 09/28/2010	Seq No: 3768674							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	66.95	5.0	50	0	134	48.8	172	0	0	0	0
Trichloroethene	80.75	5.0	50	26.55	108	70.3	140	0	0	0	0
Surr: 4-Bromofluorobenzene	43.35	0	50	0	86.7	60.1	127	0	0	0	0

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: ERM-Southeast
 Project Name: Williamson Dickie
 Workorder: 1009I42

ANALYTICAL QC SUMMARY REPORT

BatchID: 135636

Sample ID: 1009J06-001AMS	Client ID:	Units: ug/L	Prep Date: 09/28/2010	Run No: 181090							
SampleType: MS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 135636	Analysis Date: 09/28/2010	Seq No: 3768674							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Surr: Dibromofluoromethane	50.80	0	50	0	102	79.6	126	0	0	0	
Surr: Toluene-d8	47.68	0	50	0	95.4	78	116	0	0	0	

Sample ID: 1009J06-001AMSD	Client ID:	Units: ug/L	Prep Date: 09/28/2010	Run No: 181090							
SampleType: MSD	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 135636	Analysis Date: 09/28/2010	Seq No: 3768675							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	71.19	5.0	50	0	142	48.8	172	66.95	6.14	21.6	
Trichloroethene	77.48	5.0	50	26.55	102	70.3	140	80.75	4.13	20.3	
Surr: 4-Bromofluorobenzene	43.92	0	50	0	87.8	60.1	127	43.35	0	0	
Surr: Dibromofluoromethane	51.69	0	50	0	103	79.6	126	50.80	0	0	
Surr: Toluene-d8	46.19	0	50	0	92.4	78	116	47.68	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: ERM-Southeast
Project Name: Williamson Dickie
Workorder: 1009I42

ANALYTICAL QC SUMMARY REPORT

BatchID: 135698

Sample ID: MB-135698	Client ID:	Units: ug/Kg	Prep Date: 09/29/2010	Run No: 181182							
SampleType: MBLK	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 135698	Analysis Date: 09/29/2010	Seq No: 3770484							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
1,4-Dioxane	BRL	150	0	0	0	0	0	0	0	0	
cis-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Tetrachloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Vinyl chloride	BRL	10	0	0	0	0	0	0	0	0	
Surr: 4-Bromofluorobenzene	46.81	0	50	0	93.6	58.2	140	0	0	0	
Surr: Dibromofluoromethane	49.27	0	50	0	98.5	71.1	132	0	0	0	
Surr: Toluene-d8	46.46	0	50	0	92.9	77.6	119	0	0	0	

Sample ID: LCS-135698	Client ID:	Units: ug/Kg	Prep Date: 09/29/2010	Run No: 181182							
SampleType: LCS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 135698	Analysis Date: 09/29/2010	Seq No: 3770485							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	57.82	5.0	50	0	116	66.1	158	0	0	0	
Trichloroethene	48.48	5.0	50	0	97	74.5	137	0	0	0	
Surr: 4-Bromofluorobenzene	47.13	0	50	0	94.3	58.2	140	0	0	0	
Surr: Dibromofluoromethane	46.84	0	50	0	93.7	71.1	132	0	0	0	
Surr: Toluene-d8	45.41	0	50	0	90.8	77.6	119	0	0	0	

Sample ID: 1009E63-009AMS	Client ID:	Units: ug/Kg-dry	Prep Date: 09/29/2010	Run No: 181182							
SampleType: MS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 135698	Analysis Date: 09/29/2010	Seq No: 3770487							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	61.87	5.8	58.29	0	106	60.6	160	0	0	0	
Trichloroethene	55.51	5.8	58.29	0	95.2	70.3	147	0	0	0	
Surr: 4-Bromofluorobenzene	53.44	0	58.29	0	91.7	58.2	140	0	0	0	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: ERM-Southeast
 Project Name: Williamson Dickie
 Workorder: 1009I42

ANALYTICAL QC SUMMARY REPORT

BatchID: 135698

Sample ID: 1009E63-009AMS	Client ID:	Units: ug/Kg-dry	Prep Date: 09/29/2010	Run No: 181182							
SampleType: MS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 135698	Analysis Date: 09/29/2010	Seq No: 3770487							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Surr: Dibromofluoromethane	56.74	0	58.29	0	97.3	71.1	132	0	0	0	
Surr: Toluene-d8	54.50	0	58.29	0	93.5	77.6	119	0	0	0	

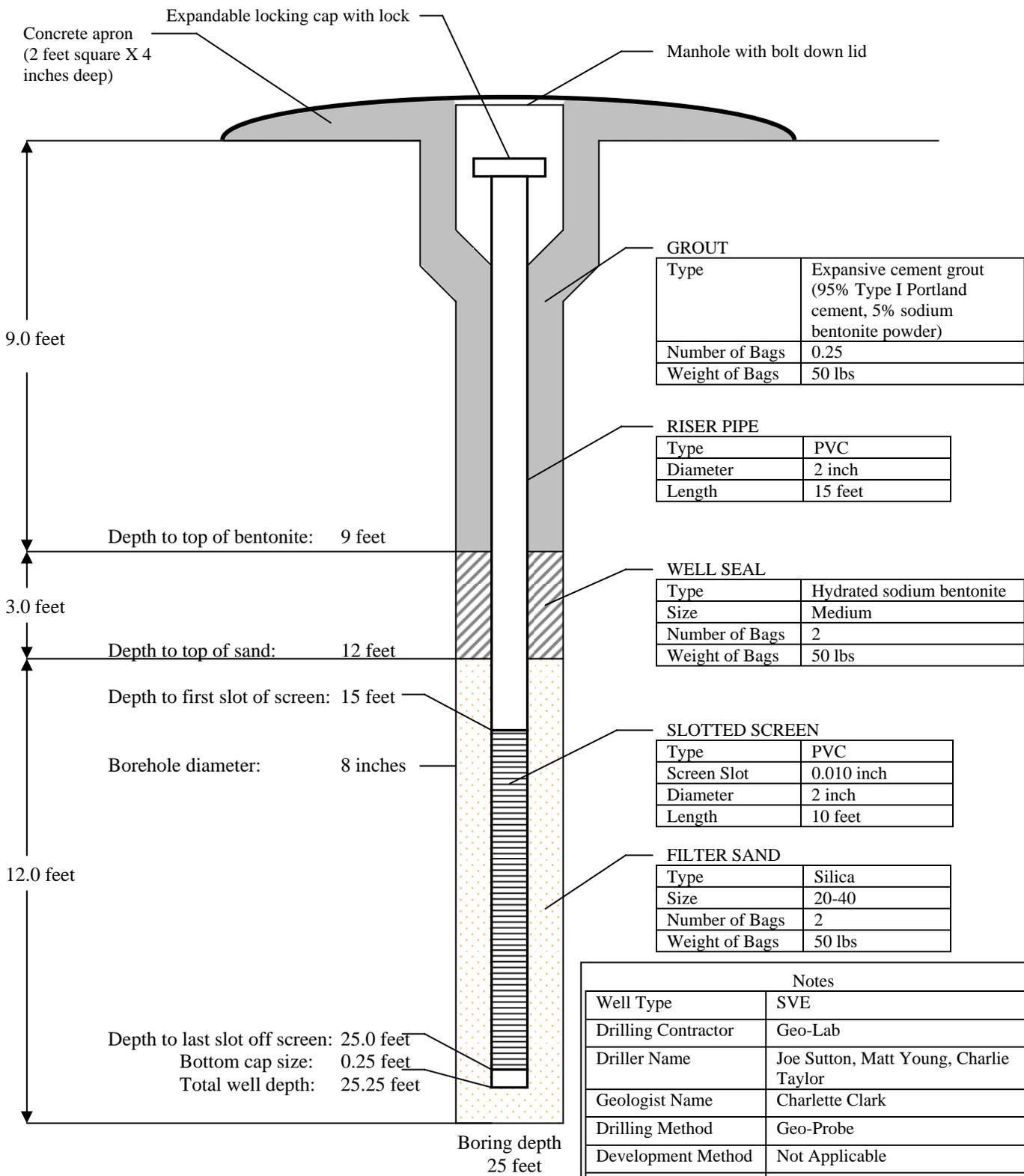
Sample ID: 1009E63-009AMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 09/29/2010	Run No: 181182							
SampleType: MSD	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 135698	Analysis Date: 09/29/2010	Seq No: 3770488							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	63.69	5.8	58.29	0	109	60.6	160	61.87	2.9	30.9	
Trichloroethene	54.15	5.8	58.29	0	92.9	70.3	147	55.51	2.47	28	
Surr: 4-Bromofluorobenzene	50.88	0	58.29	0	87.3	58.2	140	53.44	0	0	
Surr: Dibromofluoromethane	57.17	0	58.29	0	98.1	71.1	132	56.74	0	0	
Surr: Toluene-d8	56.07	0	58.29	0	96.2	77.6	119	54.50	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Appendix I

*MW-39 Boring Log and Well Construction
Diagram*



Notes	
Well Type	SVE
Drilling Contractor	Geo-Lab
Driller Name	Joe Sutton, Matt Young, Charlie Taylor
Geologist Name	Charlette Clark
Drilling Method	Geo-Probe
Development Method	Not Applicable
Drilling Start/End Date	February 17, 2011
Well Construction Start/End Date	February 17, 2011/ February 18, 2011

*Not to scale
Well construction measurements are rounded to nearest 0.1 foot

<i>Dwn:</i> CMC	<i>Appr:</i>	ERM PROJECT #/HSI SITE # 0121103/10127	FIGURE 1	ERM 300 Chastain Center Blvd., Ste. 375 Kennesaw, Georgia 30144 PH: (770) 590-8383 FAX: (770) 590-9164
<i>Dwg Date:</i> 2/25/11	<i>Revision</i> 1	Williamson-Dickie 2411 Sullivan Road College Park, Georgia	<i>MW-39 Well</i> <i>Construction</i> <i>Detail</i>	
MW-39				

		Environmental			SOIL BORING # MW-39	
Resources Management		PROJECT NUMBER: 0121103 LOCATION: College Park, Georgia DRILLING COMPANY: EM-Services DRILLERS NAME(S): Joe Sutton, Matt Young, Charlie Taylor DRILL RIG/METHOD: Geo-Probe SAMPLING METHOD: NA FIELD SCREENING EQUIPMENT: LOGGED BY: C. Clark Page 1 of 1				
WELL DETAIL	DEPTH	USCS	BLOW COUNTS	INCHES RECOVERED	PID (ppm)	DESCRIPTION
NA	0		NA	NA	NA	
	2					Hand Auger to 6 ft below ground surface (bgs)- asphalt layer from 0-1 ft. Then reddish brown sandy CLAY
	4					
NA	6	CL	NA	NA	48	
	8					Reddish-orange CLAY with some silt, medium stiff, dry. Transitions to tan soft clay, slightly moist at 11 ft with trace mica
	10					
NA	10	CL	NA	NA	60	
	12					Tan, soft, silty CLAY to 14 ft then reddish brown soft, silty clay
	14					
	16					
NA	16	CL	NA	NA	60	
	18					Moist, micaceous silt with trace CLAY. Very soft. Transitions to red and white, then at 20 ft becomes red silty CLAY, soft, moist micaceous and red from 20 ft to 22 ft bgs
	20					
NA	22	CL	NA	NA	60	
	24					SAA except wet. Red and white silty, micaceous CLAY. Very soft
	26					
NA	26	CL	NA	NA	60	
						Boring terminated at 27 ft bgs

Key

NA = Not Applicable

Appendix J

Ground Water Analytical Data - MW-39



February 28, 2011

Shanna Thompson
ERM-Southeast
300 Chastain Center Blvd, Suite 375
Kennesaw GA 30144

TEL: (770) 590-8383
FAX: (770) 590-9164

RE: Williamson-Dickie

Dear Shanna Thompson:

Order No: 1102J35

Analytical Environmental Services, Inc. received 3 samples on February 23, 2011 12:35 pm for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/10-06/30/11.
- AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/11.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Brian Rohr
Project Manager



COMPANY: <u>ERM Southeast</u>		ADDRESS: <u>300 Chastain Center Blvd. Ste 375 Kennesaw, GA 30144</u>			ANALYSIS REQUESTED				Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.		No # of Containers
PHONE: <u>770-590-0383</u>		FAX:			PRESERVATION (See codes)						
SAMPLED BY: <u>Amy Griswold</u>		SIGNATURE: <u>Amy Griswold</u>							REMARKS		
#	SAMPLE ID	SAMPLED		Grab	Composite	Matrix (See codes)					
		DATE	TIME								
1	<u>MW-39</u>	<u>2/23/11</u>	<u>10:50</u>	<input checked="" type="checkbox"/>		<u>GW</u>	<input checked="" type="checkbox"/>	<u>Report 24 hr TAT Standard TAT</u>			
2	<u>DWP</u>	<u>2/23/11</u>	<u>---</u>	<input checked="" type="checkbox"/>		<u>GW</u>	<input checked="" type="checkbox"/>				
3	<u>TRIP BLANK</u>	<u>2/23/11</u>									
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
RELINQUISHED BY		DATE/TIME	RECEIVED BY	DATE/TIME	PROJECT INFORMATION				RECEIPT		
1: <u>Amy Griswold</u>		<u>2/23/11 12:35</u>	1: <u>PLM</u>	<u>2/23/11</u>	PROJECT NAME: <u>Williamson-Dickie</u>				Total # of Containers		
2:			2:	<u>12:35</u>	PROJECT #: <u>0121103</u>				Turnaround Time Request		
3:			3:		SITE ADDRESS: <u>241 Sullivan Rd College Park, GA</u>				<input type="radio"/> Standard 5 Business Days <input type="radio"/> 2 Business Day Rush <input type="radio"/> Next Business Day Rush <input type="radio"/> Same Day Rush (auth req.) <input type="radio"/> Other _____		
SEND REPORT TO: <u>Shahina Thompson</u>		SHIPMENT METHOD		INVOICE TO:				STATE PROGRAM (if any): _____			
SPECIAL INSTRUCTIONS/COMMENTS: <u>Report only: 1,1-DCE, cis-1,2DCE, trans-1,2-DCE, PCE, TCE, vinyl chloride, and 1A-Dioxane.</u>		OUT / / VIA:		(IF DIFFERENT FROM ABOVE)				E-mail? Y/N; Fax? Y/N			
		IN <u>CLIENT</u> VIA:		QUOTE #: _____ PO#: _____				DATA PACKAGE: I II III IV			
		GREYHOUND OTHER _____									

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
 SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water
 PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Analytical Environmental Services, Inc

Date: 28-Feb-11

Client: ERM-Southeast	Client Sample ID: MW-39
Project Name: Williamson-Dickie	Collection Date: 2/23/2011 10:50:00 AM
Lab ID: 1102J35-001	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,4-Dioxane	BRL	150		ug/L	142561	1	02/24/2011 11:27	SB
Vinyl chloride	BRL	2.0		ug/L	142561	1	02/24/2011 11:27	SB
1,1-Dichloroethene	BRL	5.0		ug/L	142561	1	02/24/2011 11:27	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	142561	1	02/24/2011 11:27	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	142561	1	02/24/2011 11:27	SB
Trichloroethene	BRL	5.0		ug/L	142561	1	02/24/2011 11:27	SB
Tetrachloroethene	BRL	5.0		ug/L	142561	1	02/24/2011 11:27	SB
Surr: 4-Bromofluorobenzene	90.5	64.7-130		%REC	142561	1	02/24/2011 11:27	SB
Surr: Dibromofluoromethane	90.9	80.7-129		%REC	142561	1	02/24/2011 11:27	SB
Surr: Toluene-d8	90.4	71.1-120		%REC	142561	1	02/24/2011 11:27	SB

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 28-Feb-11

Client: ERM-Southeast	Client Sample ID: DUP
Project Name: Williamson-Dickie	Collection Date: 2/23/2011
Lab ID: 1102J35-002	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,4-Dioxane	BRL	150		ug/L	142561	1	02/24/2011 11:55	SB
Vinyl chloride	BRL	2.0		ug/L	142561	1	02/24/2011 11:55	SB
1,1-Dichloroethene	BRL	5.0		ug/L	142561	1	02/24/2011 11:55	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	142561	1	02/24/2011 11:55	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	142561	1	02/24/2011 11:55	SB
Trichloroethene	BRL	5.0		ug/L	142561	1	02/24/2011 11:55	SB
Tetrachloroethene	BRL	5.0		ug/L	142561	1	02/24/2011 11:55	SB
Surr: 4-Bromofluorobenzene	90.3	64.7-130		%REC	142561	1	02/24/2011 11:55	SB
Surr: Dibromofluoromethane	92.3	80.7-129		%REC	142561	1	02/24/2011 11:55	SB
Surr: Toluene-d8	89.1	71.1-120		%REC	142561	1	02/24/2011 11:55	SB

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: ERM-Southeast	Client Sample ID: TRIP BLANK
Project Name: Williamson-Dickie	Collection Date: 2/23/2011
Lab ID: 1102J35-003	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,4-Dioxane	BRL	150		ug/L	142561	1	02/24/2011 10:58	SB
Vinyl chloride	BRL	2.0		ug/L	142561	1	02/24/2011 10:58	SB
1,1-Dichloroethene	BRL	5.0		ug/L	142561	1	02/24/2011 10:58	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	142561	1	02/24/2011 10:58	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	142561	1	02/24/2011 10:58	SB
Trichloroethene	BRL	5.0		ug/L	142561	1	02/24/2011 10:58	SB
Tetrachloroethene	BRL	5.0		ug/L	142561	1	02/24/2011 10:58	SB
Surr: 4-Bromofluorobenzene	92.5	64.7-130		%REC	142561	1	02/24/2011 10:58	SB
Surr: Dibromofluoromethane	89.2	80.7-129		%REC	142561	1	02/24/2011 10:58	SB
Surr: Toluene-d8	90.4	71.1-120		%REC	142561	1	02/24/2011 10:58	SB

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client ERM

Work Order Number 1102J35

Checklist completed by [Signature] Date 2-23-11

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Container/Temp Blank temperature in compliance? (4°C±2)* Yes No

Cooler #1 38 Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler #5 _____ Cooler #6 _____

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Was TAT marked on the COC? Yes No

Proceed with Standard TAT as per project history? Yes No Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted Yes No

Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by _____

Sample Condition: Good Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: ERM-Southeast
 Project Name: Williamson-Dickie
 Workorder: 1102J35

ANALYTICAL QC SUMMARY REPORT

BatchID: 142561

Sample ID: MB-142561	Client ID:	Units: ug/L	Prep Date: 02/24/2011	Run No: 191162							
SampleType: MBLK	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 142561	Analysis Date: 02/24/2011	Seq No: 3988922							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	0
1,4-Dioxane	BRL	150	0	0	0	0	0	0	0	0	0
cis-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	0
Tetrachloroethene	BRL	5.0	0	0	0	0	0	0	0	0	0
trans-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	0
Trichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	0
Vinyl chloride	BRL	2.0	0	0	0	0	0	0	0	0	0
Surr: 4-Bromofluorobenzene	44.37	0	50	0	88.7	64.7	130	0	0	0	0
Surr: Dibromofluoromethane	48.25	0	50	0	96.5	80.7	129	0	0	0	0
Surr: Toluene-d8	44.59	0	50	0	89.2	71.1	120	0	0	0	0

Sample ID: LCS-142561	Client ID:	Units: ug/L	Prep Date: 02/24/2011	Run No: 191162							
SampleType: LCS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 142561	Analysis Date: 02/24/2011	Seq No: 3988913							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	39.63	5.0	50	0	79.3	60	140	0	0	0	0
Trichloroethene	50.57	5.0	50	0	101	70	130	0	0	0	0
Surr: 4-Bromofluorobenzene	50.45	0	50	0	101	64.7	130	0	0	0	0
Surr: Dibromofluoromethane	46.87	0	50	0	93.7	80.7	129	0	0	0	0
Surr: Toluene-d8	47.41	0	50	0	94.8	71.1	120	0	0	0	0

Sample ID: 1102146-003AMS	Client ID:	Units: ug/L	Prep Date: 02/24/2011	Run No: 191162							
SampleType: MS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 142561	Analysis Date: 02/24/2011	Seq No: 3989705							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	43.77	5.0	50	0	87.5	46.2	183	0	0	0	0
Trichloroethene	50.35	5.0	50	0	101	70.5	149	0	0	0	0
Surr: 4-Bromofluorobenzene	45.41	0	50	0	90.8	64.7	130	0	0	0	0

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: ERM-Southeast
 Project Name: Williamson-Dickie
 Workorder: 1102J35

ANALYTICAL QC SUMMARY REPORT

BatchID: 142561

Sample ID: 1102146-003AMS	Client ID:	Units: ug/L	Prep Date: 02/24/2011	Run No: 191162							
SampleType: MS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 142561	Analysis Date: 02/24/2011	Seq No: 3989705							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Surr: Dibromofluoromethane	45.02	0	50	0	90	80.7	129	0	0	0	
Surr: Toluene-d8	43.63	0	50	0	87.3	71.1	120	0	0	0	

Sample ID: 1102146-003AMSD	Client ID:	Units: ug/L	Prep Date: 02/24/2011	Run No: 191162							
SampleType: MSD	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 142561	Analysis Date: 02/24/2011	Seq No: 3989842							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	45.78	5.0	50	0	91.6	46.2	183	43.77	4.49	20	
Trichloroethene	50.76	5.0	50	0	102	70.5	149	50.35	0.811	20	
Surr: 4-Bromofluorobenzene	43.10	0	50	0	86.2	64.7	130	45.41	0	0	
Surr: Dibromofluoromethane	44.14	0	50	0	88.3	80.7	129	45.02	0	0	
Surr: Toluene-d8	43.59	0	50	0	87.2	71.1	120	43.63	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Appendix K

Ground Water Sampling Logs – October 2010

GROUND WATER SAMPLING LOG SHEET



Client: Wilkinson - Dixie Project No.: 00121103
 Site/Location: College Park, GA ~~100586~~

Well ID: MW-19 Pump Type/Model: Peristaltic
 Total Depth (ft): 75 Tubing Material: 1/4" LDPE
 Depth to Water (ft): 21.10 Pump Intake Depth (ft):
 Well Diameter (in): 2" Start/Stop Purge Time:
 Well Volume (gal) = 0.041d²h: 1.5 Purge Rate (L/min):
 d = well diameter (inches) h = length of water column (feet)
 Well Condition: good Total Purge Volume (L):

Sampling Date: 10-14-10
 Sampler's Name: Charlette Clark
 Sample Collection Time: 1510
 Sample Purge Rate (L/min): 2.0 NA
 Sample ID: MW-19-20101015-01
 QA/QC Collected? No
 QA/QC ID: NA
 Laboratory Analyses: VOCs
 pump head discharge (Inorganics including cyanide)
 Bailer (only used if necessary)

Time	Temp. (°C)	Spec. Cond. (µmS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H ₂ O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
1440	21.20	0.074	2.69	6.31	55.3	3.2	1.5	21.15	odor
1445	20.89	0.073	0.47	6.14	53.0	2.1	1.5	21.28	
1450	20.70	0.072	0.29	6.14	52.8	1.49	1.0	21.34	
1455	20.76	0.071	0.25	6.13	51.7	1.25	1.0	21.34	
1500	20.81	0.071	0.22	6.12	53.2	1.15	1.5	21.34	
									Sample time 1520-1610 1510 -gases in sample bottles

Stabilizing Criteria: +/- 1°C, +/- 3%, +/- 10 mV (see note below), +/- 10% or <10 NTUs (see note below)
 (1) - Do not measure depth to bottom of well until after purging and sampling to reduce from possible fines that may be resting on the well bottom.
 (2) - Purge rate to be 0.5 lpm or less.
 (3) - Sampling rate to be 0.25 lpm or less.
 (4) - Field parameter measurements to be recorded every 3 to 5 minutes.
 (5) - Stabilization criteria based on three most recent consecutive measurements.
 (6) - Monitor DJI for 5 minutes before sampling to ensure that the sampling rate is below the necessary to keep drawdown below 0.3 ft.
 (7) - Use the following criteria for the "Good Laboratory Practice" (GLP) Standard Operating Procedure.
 (8) - ORP is not a stabilization criterion for the Groundwater Sampling (GWS) Standard Operating Procedure.

Appendix L

*Ground Water Analytical Data – October 2010
Annual Ground Water Sampling Event*



October 28, 2010

Shanna Thompson
ERM-Southeast
300 Chastain Center Blvd, Suite 375
Kennesaw GA 30144

TEL: (770) 590-8383
FAX: (770) 590-9164

RE: Williamson Dickie

Dear Shanna Thompson:

Order No: 1010J94

Analytical Environmental Services, Inc. received 29 samples on 10/22/2010 11:00:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/10-06/30/11.
- AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/11.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Brian Rohr
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC
 3785 Presidential Parkway, Atlanta GA 30340-3704
AES TEL: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

10/23/10
 Mr. D
 1010J94 Work Order: 1010173

Date: 10-22-10 Page 1 of 2

#	SAMPLE ID	SAMPLED		Grab	Composite	Matrix (See codes)	ANALYSIS REQUESTED		REMARKS	No # of Containers	
		DATE	TIME				PRESERVATION (See codes)	Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.			
1	MW-20-20101014-01	10-14-10	1430	X		GW			Analyze only for	2	
2	MW-19-20101014-01	10-14-10	1543100	X					PCE/TCE/VC	2	
3	MW-25-20101014-01	10-14-10	1310	X					1-4 Dioxane	2	
4	MW-29B-20101015-01	10-15-10	1230	X					1,1-DCE	2	
5	MW-35-20101015-01	10-15-10	1415	X					cis-1,2 DCE	2	
6	MW-35A-20101015-01	10-15-10	1330	X					trans 1,2 DCE	2	
7	MW-36-20101015-01	10-15-10	1130	X						2	
8	MW-37A-20101015-01	10-15-10	1035	X						2	
9	MW-38-20101018-01	10-18-10	0920	X						2	
10	MW-38A-20101018-01	10-18-10	1025	X						2	
11	MW-32-20101018-01	10-18-10	1120	X						2	
12	MW-33-20101018-01	10-18-10	1320	X						2	
13	MW-12-20101018-01	10-18-10	1420	X						2	
14	DUP-1	10-18-10	1200	X						2	
RELINQUISHED BY: <i>John Thompson</i>		DATE/TIME RECEIVED BY: <i>10/22/10</i>	DATE/TIME: <i>11:00</i>		PROJECT INFORMATION: PROJECT NAME: <i>Williamson Ditch</i> PROJECT #: <i>0121103</i> SITE ADDRESS: <i>2411 Sullivan Rd College Park, GA</i> SEND REPORT TO: <i>Sheena Thompson</i> INVOICE TO: (IF DIFFERENT FROM ABOVE) QUOTE #: _____ PO#: _____						
SPECIAL INSTRUCTIONS/COMMENTS: <i>Analyze for the 7 listed compounds</i>		SHIPMENT METHOD: _____ VIA: _____ OUT: _____ IN: _____ CLIENT: _____ FedEx: _____ UPS: _____ MAIL: _____ COURIER: _____ OTHER: _____		STATE PROGRAM (if any): _____ E-mail? Y/N: _____ Fax? Y/N: _____ DATA PACKAGE: I II III IV							
<p>TURNAROUND TIME REQUEST: Standard 5 Business Days, 2 Business Day Rush, Next Business Day Rush, Same Day Rush (auth req), Other</p> <p>TOTAL # OF CONTAINERS: 28</p>											

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
 SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.
 MATRIX CODES: A = Air, GW = Groundwater, SE = Sediment, SO = Soil, SW = Surface Water, W = Water (Blanks), DW = Drinking Water (Blanks), O = Other (specify), WW = Waste Water
 PRESERVATIVE CODES: H+1 = Hydrochloric acid + ice, I = Ice only, N = Nitric acid, S+I = Sulfuric acid + ice, S/M+I = Sodium Bisulfate/Methanol + ice, O = Other (specify), NA = None
 White Copy - Original; Yellow Copy - Client

Client: ERM-Southeast
Project: Williamson Dickie
Lab ID: 1010J94

Case Narrative

Sample Receiving Nonconformance:

Sample 1010J94-003A had a collection date of 10/15/2010 listed on the container, while the COC had a collection date of 10/14/2010. The sample was reported according to the Chain of Custody.

A Trip Blank was provided, but not listed on the Chain of Custody. Trip blank analyzed at no cost to the client.

Volatile Organic Compounds Analysis by Method 8260B:

Trichloroethene value for Samples 1010J94-021A and - 025A is "E" qualified, indicating an estimated value over linear calibration range. Sample was diluted and re-analyzed with analyte being below reporting limit due to the level of dilution required for other compounds.

Analytical Environmental Services, Inc

Date: 28-Oct-10

Client: ERM-Southeast	Client Sample ID: MW-20-20101014-01
Project: Williamson Dickie	Collection Date: 10/14/2010 2:30:00 PM
Lab ID: 1010J94-001	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,4-Dioxane	BRL	150		ug/L	137147	1	10/26/2010 13:08	JT
Vinyl chloride	BRL	2.0		ug/L	137147	1	10/26/2010 13:08	JT
1,1-Dichloroethene	BRL	5.0		ug/L	137147	1	10/26/2010 13:08	JT
trans-1,2-Dichloroethene	BRL	5.0		ug/L	137147	1	10/26/2010 13:08	JT
cis-1,2-Dichloroethene	400	50		ug/L	137147	10	10/26/2010 21:50	JT
Trichloroethene	9.7	5.0		ug/L	137147	1	10/26/2010 13:08	JT
Tetrachloroethene	74	5.0		ug/L	137147	1	10/26/2010 13:08	JT
Surr: 4-Bromofluorobenzene	80.9	64.7-130		%REC	137147	1	10/26/2010 13:08	JT
Surr: 4-Bromofluorobenzene	80.1	64.7-130		%REC	137147	10	10/26/2010 21:50	JT
Surr: Dibromofluoromethane	104	80.7-129		%REC	137147	1	10/26/2010 13:08	JT
Surr: Dibromofluoromethane	105	80.7-129		%REC	137147	10	10/26/2010 21:50	JT
Surr: Toluene-d8	89.6	71.1-120		%REC	137147	1	10/26/2010 13:08	JT
Surr: Toluene-d8	92	71.1-120		%REC	137147	10	10/26/2010 21:50	JT

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	

Client: ERM-Southeast	Client Sample ID: MW-19-20101014-01
Project: Williamson Dickie	Collection Date: 10/14/2010 3:10:00 PM
Lab ID: 1010J94-002	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,4-Dioxane	BRL	150		ug/L	137147	1	10/26/2010 13:37	JT
Vinyl chloride	BRL	2.0		ug/L	137147	1	10/26/2010 13:37	JT
1,1-Dichloroethene	BRL	5.0		ug/L	137147	1	10/26/2010 13:37	JT
trans-1,2-Dichloroethene	BRL	5.0		ug/L	137147	1	10/26/2010 13:37	JT
cis-1,2-Dichloroethene	BRL	5.0		ug/L	137147	1	10/26/2010 13:37	JT
Trichloroethene	BRL	5.0		ug/L	137147	1	10/26/2010 13:37	JT
Tetrachloroethene	BRL	5.0		ug/L	137147	1	10/26/2010 13:37	JT
Surr: 4-Bromofluorobenzene	84.2	64.7-130		%REC	137147	1	10/26/2010 13:37	JT
Surr: Dibromofluoromethane	106	80.7-129		%REC	137147	1	10/26/2010 13:37	JT
Surr: Toluene-d8	92.3	71.1-120		%REC	137147	1	10/26/2010 13:37	JT

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value

Client: ERM-Southeast	Client Sample ID: MW-25-20101014-01
Project: Williamson Dickie	Collection Date: 10/14/2010 1:10:00 PM
Lab ID: 1010J94-003	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,4-Dioxane	BRL	150		ug/L	137147	1	10/26/2010 14:05	JT
Vinyl chloride	BRL	2.0		ug/L	137147	1	10/26/2010 14:05	JT
1,1-Dichloroethene	BRL	5.0		ug/L	137147	1	10/26/2010 14:05	JT
trans-1,2-Dichloroethene	BRL	5.0		ug/L	137147	1	10/26/2010 14:05	JT
cis-1,2-Dichloroethene	23	5.0		ug/L	137147	1	10/26/2010 14:05	JT
Trichloroethene	6.2	5.0		ug/L	137147	1	10/26/2010 14:05	JT
Tetrachloroethene	110	5.0		ug/L	137147	1	10/26/2010 14:05	JT
Surr: 4-Bromofluorobenzene	78.9	64.7-130		%REC	137147	1	10/26/2010 14:05	JT
Surr: Dibromofluoromethane	108	80.7-129		%REC	137147	1	10/26/2010 14:05	JT
Surr: Toluene-d8	90.9	71.1-120		%REC	137147	1	10/26/2010 14:05	JT

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value

Client: ERM-Southeast	Client Sample ID: MW-29R-20101015-01
Project: Williamson Dickie	Collection Date: 10/15/2010 12:30:00 PM
Lab ID: 1010J94-004	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,4-Dioxane	BRL	150		ug/L	137147	1	10/26/2010 14:34	JT
Vinyl chloride	BRL	2.0		ug/L	137147	1	10/26/2010 14:34	JT
1,1-Dichloroethene	BRL	5.0		ug/L	137147	1	10/26/2010 14:34	JT
trans-1,2-Dichloroethene	BRL	5.0		ug/L	137147	1	10/26/2010 14:34	JT
cis-1,2-Dichloroethene	BRL	5.0		ug/L	137147	1	10/26/2010 14:34	JT
Trichloroethene	BRL	5.0		ug/L	137147	1	10/26/2010 14:34	JT
Tetrachloroethene	BRL	5.0		ug/L	137147	1	10/26/2010 14:34	JT
Surr: 4-Bromofluorobenzene	79.6	64.7-130		%REC	137147	1	10/26/2010 14:34	JT
Surr: Dibromofluoromethane	105	80.7-129		%REC	137147	1	10/26/2010 14:34	JT
Surr: Toluene-d8	91.3	71.1-120		%REC	137147	1	10/26/2010 14:34	JT

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value

Client: ERM-Southeast	Client Sample ID: MW-35-20101015-01
Project: Williamson Dickie	Collection Date: 10/15/2010 2:15:00 PM
Lab ID: 1010J94-005	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,4-Dioxane	BRL	150		ug/L	137147	1	10/26/2010 15:03	JT
Vinyl chloride	BRL	2.0		ug/L	137147	1	10/26/2010 15:03	JT
1,1-Dichloroethene	BRL	5.0		ug/L	137147	1	10/26/2010 15:03	JT
trans-1,2-Dichloroethene	BRL	5.0		ug/L	137147	1	10/26/2010 15:03	JT
cis-1,2-Dichloroethene	BRL	5.0		ug/L	137147	1	10/26/2010 15:03	JT
Trichloroethene	BRL	5.0		ug/L	137147	1	10/26/2010 15:03	JT
Tetrachloroethene	BRL	5.0		ug/L	137147	1	10/26/2010 15:03	JT
Surr: 4-Bromofluorobenzene	81.3	64.7-130		%REC	137147	1	10/26/2010 15:03	JT
Surr: Dibromofluoromethane	107	80.7-129		%REC	137147	1	10/26/2010 15:03	JT
Surr: Toluene-d8	93.7	71.1-120		%REC	137147	1	10/26/2010 15:03	JT

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value

Client: ERM-Southeast	Client Sample ID: MW-35A-20101015-01
Project: Williamson Dickie	Collection Date: 10/15/2010 1:30:00 PM
Lab ID: 1010J94-006	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,4-Dioxane	BRL	150		ug/L	137147	1	10/27/2010 12:51	JT
Vinyl chloride	BRL	2.0		ug/L	137147	1	10/27/2010 12:51	JT
1,1-Dichloroethene	BRL	5.0		ug/L	137147	1	10/27/2010 12:51	JT
trans-1,2-Dichloroethene	BRL	5.0		ug/L	137147	1	10/27/2010 12:51	JT
cis-1,2-Dichloroethene	BRL	5.0		ug/L	137147	1	10/27/2010 12:51	JT
Trichloroethene	BRL	5.0		ug/L	137147	1	10/27/2010 12:51	JT
Tetrachloroethene	BRL	5.0		ug/L	137147	1	10/27/2010 12:51	JT
Surr: 4-Bromofluorobenzene	87.5	64.7-130		%REC	137147	1	10/27/2010 12:51	JT
Surr: Dibromofluoromethane	104	80.7-129		%REC	137147	1	10/27/2010 12:51	JT
Surr: Toluene-d8	87.8	71.1-120		%REC	137147	1	10/27/2010 12:51	JT

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value

Client: ERM-Southeast	Client Sample ID: MW-36-20101015-01
Project: Williamson Dickie	Collection Date: 10/15/2010 11:30:00 AM
Lab ID: 1010J94-007	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,4-Dioxane	BRL	150		ug/L	137147	1	10/27/2010 13:20	JT
Vinyl chloride	BRL	2.0		ug/L	137147	1	10/27/2010 13:20	JT
1,1-Dichloroethene	BRL	5.0		ug/L	137147	1	10/27/2010 13:20	JT
trans-1,2-Dichloroethene	BRL	5.0		ug/L	137147	1	10/27/2010 13:20	JT
cis-1,2-Dichloroethene	BRL	5.0		ug/L	137147	1	10/27/2010 13:20	JT
Trichloroethene	BRL	5.0		ug/L	137147	1	10/27/2010 13:20	JT
Tetrachloroethene	BRL	5.0		ug/L	137147	1	10/27/2010 13:20	JT
Surr: 4-Bromofluorobenzene	84.9	64.7-130		%REC	137147	1	10/27/2010 13:20	JT
Surr: Dibromofluoromethane	107	80.7-129		%REC	137147	1	10/27/2010 13:20	JT
Surr: Toluene-d8	91.6	71.1-120		%REC	137147	1	10/27/2010 13:20	JT

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value

Client: ERM-Southeast	Client Sample ID: MW-37A-20101015-01
Project: Williamson Dickie	Collection Date: 10/15/2010 10:35:00 AM
Lab ID: 1010J94-008	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,4-Dioxane	BRL	150		ug/L	137147	1	10/27/2010 13:48	JT
Vinyl chloride	2.6	2.0		ug/L	137147	1	10/27/2010 13:48	JT
1,1-Dichloroethene	BRL	5.0		ug/L	137147	1	10/27/2010 13:48	JT
trans-1,2-Dichloroethene	BRL	5.0		ug/L	137147	1	10/27/2010 13:48	JT
cis-1,2-Dichloroethene	110	5.0		ug/L	137147	1	10/27/2010 13:48	JT
Trichloroethene	BRL	5.0		ug/L	137147	1	10/27/2010 13:48	JT
Tetrachloroethene	BRL	5.0		ug/L	137147	1	10/27/2010 13:48	JT
Surr: 4-Bromofluorobenzene	87	64.7-130		%REC	137147	1	10/27/2010 13:48	JT
Surr: Dibromofluoromethane	111	80.7-129		%REC	137147	1	10/27/2010 13:48	JT
Surr: Toluene-d8	91.7	71.1-120		%REC	137147	1	10/27/2010 13:48	JT

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value

Client: ERM-Southeast	Client Sample ID: MW-38-20101018-01
Project: Williamson Dickie	Collection Date: 10/18/2010 9:20:00 AM
Lab ID: 1010J94-009	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,4-Dioxane	BRL	150		ug/L	137147	1	10/27/2010 14:17	JT
Vinyl chloride	BRL	2.0		ug/L	137147	1	10/27/2010 14:17	JT
1,1-Dichloroethene	BRL	5.0		ug/L	137147	1	10/27/2010 14:17	JT
trans-1,2-Dichloroethene	BRL	5.0		ug/L	137147	1	10/27/2010 14:17	JT
cis-1,2-Dichloroethene	BRL	5.0		ug/L	137147	1	10/27/2010 14:17	JT
Trichloroethene	BRL	5.0		ug/L	137147	1	10/27/2010 14:17	JT
Tetrachloroethene	25	5.0		ug/L	137147	1	10/27/2010 14:17	JT
Surr: 4-Bromofluorobenzene	82.5	64.7-130		%REC	137147	1	10/27/2010 14:17	JT
Surr: Dibromofluoromethane	110	80.7-129		%REC	137147	1	10/27/2010 14:17	JT
Surr: Toluene-d8	93.9	71.1-120		%REC	137147	1	10/27/2010 14:17	JT

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value

Client: ERM-Southeast	Client Sample ID: MW-38A-20101018-01
Project: Williamson Dickie	Collection Date: 10/18/2010 10:25:00 AM
Lab ID: 1010J94-010	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,4-Dioxane	BRL	150		ug/L	137147	1	10/27/2010 18:38	JT
Vinyl chloride	13	2.0		ug/L	137147	1	10/27/2010 18:38	JT
1,1-Dichloroethene	8.6	5.0		ug/L	137147	1	10/27/2010 18:38	JT
trans-1,2-Dichloroethene	5.5	5.0		ug/L	137147	1	10/27/2010 18:38	JT
cis-1,2-Dichloroethene	3800	500		ug/L	137147	100	10/27/2010 12:22	JT
Trichloroethene	BRL	5.0		ug/L	137147	1	10/27/2010 18:38	JT
Tetrachloroethene	BRL	5.0		ug/L	137147	1	10/27/2010 18:38	JT
Surr: 4-Bromofluorobenzene	82.8	64.7-130		%REC	137147	1	10/27/2010 18:38	JT
Surr: 4-Bromofluorobenzene	83.7	64.7-130		%REC	137147	100	10/27/2010 12:22	JT
Surr: Dibromofluoromethane	108	80.7-129		%REC	137147	100	10/27/2010 12:22	JT
Surr: Dibromofluoromethane	111	80.7-129		%REC	137147	1	10/27/2010 18:38	JT
Surr: Toluene-d8	86.2	71.1-120		%REC	137147	1	10/27/2010 18:38	JT
Surr: Toluene-d8	91.9	71.1-120		%REC	137147	100	10/27/2010 12:22	JT

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value

Client: ERM-Southeast	Client Sample ID: MW-32-20101018-01
Project: Williamson Dickie	Collection Date: 10/18/2010 11:20:00 AM
Lab ID: 1010J94-011	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,4-Dioxane	BRL	150		ug/L	137147	1	10/27/2010 14:45	JT
Vinyl chloride	BRL	2.0		ug/L	137147	1	10/27/2010 14:45	JT
1,1-Dichloroethene	BRL	5.0		ug/L	137147	1	10/27/2010 14:45	JT
trans-1,2-Dichloroethene	BRL	5.0		ug/L	137147	1	10/27/2010 14:45	JT
cis-1,2-Dichloroethene	20	5.0		ug/L	137147	1	10/27/2010 14:45	JT
Trichloroethene	5.6	5.0		ug/L	137147	1	10/27/2010 14:45	JT
Tetrachloroethene	100	5.0		ug/L	137147	1	10/27/2010 14:45	JT
Surr: 4-Bromofluorobenzene	81.7	64.7-130		%REC	137147	1	10/27/2010 14:45	JT
Surr: Dibromofluoromethane	114	80.7-129		%REC	137147	1	10/27/2010 14:45	JT
Surr: Toluene-d8	91.7	71.1-120		%REC	137147	1	10/27/2010 14:45	JT

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value

Client: ERM-Southeast	Client Sample ID: MW-33-20101018-01
Project: Williamson Dickie	Collection Date: 10/18/2010 1:20:00 PM
Lab ID: 1010J94-012	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,4-Dioxane	BRL	150		ug/L	137147	1	10/27/2010 15:14	JT
Vinyl chloride	BRL	2.0		ug/L	137147	1	10/27/2010 15:14	JT
1,1-Dichloroethene	BRL	5.0		ug/L	137147	1	10/27/2010 15:14	JT
trans-1,2-Dichloroethene	BRL	5.0		ug/L	137147	1	10/27/2010 15:14	JT
cis-1,2-Dichloroethene	BRL	5.0		ug/L	137147	1	10/27/2010 15:14	JT
Trichloroethene	BRL	5.0		ug/L	137147	1	10/27/2010 15:14	JT
Tetrachloroethene	BRL	5.0		ug/L	137147	1	10/27/2010 15:14	JT
Surr: 4-Bromofluorobenzene	86.3	64.7-130		%REC	137147	1	10/27/2010 15:14	JT
Surr: Dibromofluoromethane	110	80.7-129		%REC	137147	1	10/27/2010 15:14	JT
Surr: Toluene-d8	90.9	71.1-120		%REC	137147	1	10/27/2010 15:14	JT

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value

Client: ERM-Southeast	Client Sample ID: MW-12-20101018-01
Project: Williamson Dickie	Collection Date: 10/18/2010 2:20:00 PM
Lab ID: 1010J94-013	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,4-Dioxane	BRL	150		ug/L	137147	1	10/27/2010 15:43	JT
Vinyl chloride	BRL	2.0		ug/L	137147	1	10/27/2010 15:43	JT
1,1-Dichloroethene	BRL	5.0		ug/L	137147	1	10/27/2010 15:43	JT
trans-1,2-Dichloroethene	BRL	5.0		ug/L	137147	1	10/27/2010 15:43	JT
cis-1,2-Dichloroethene	23	5.0		ug/L	137147	1	10/27/2010 15:43	JT
Trichloroethene	BRL	5.0		ug/L	137147	1	10/27/2010 15:43	JT
Tetrachloroethene	22	5.0		ug/L	137147	1	10/27/2010 15:43	JT
Surr: 4-Bromofluorobenzene	80.6	64.7-130		%REC	137147	1	10/27/2010 15:43	JT
Surr: Dibromofluoromethane	110	80.7-129		%REC	137147	1	10/27/2010 15:43	JT
Surr: Toluene-d8	93.6	71.1-120		%REC	137147	1	10/27/2010 15:43	JT

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value

Client: ERM-Southeast	Client Sample ID: DUP-1
Project: Williamson Dickie	Collection Date: 10/18/2010 12:00:00 PM
Lab ID: 1010J94-014	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
1,4-Dioxane	BRL	150		ug/L	137147	1	10/27/2010 16:11	JT
Vinyl chloride	BRL	2.0		ug/L	137147	1	10/27/2010 16:11	JT
1,1-Dichloroethene	BRL	5.0		ug/L	137147	1	10/27/2010 16:11	JT
trans-1,2-Dichloroethene	BRL	5.0		ug/L	137147	1	10/27/2010 16:11	JT
cis-1,2-Dichloroethene	BRL	5.0		ug/L	137147	1	10/27/2010 16:11	JT
Trichloroethene	BRL	5.0		ug/L	137147	1	10/27/2010 16:11	JT
Tetrachloroethene	26	5.0		ug/L	137147	1	10/27/2010 16:11	JT
Surr: 4-Bromofluorobenzene	83.2	64.7-130		%REC	137147	1	10/27/2010 16:11	JT
Surr: Dibromofluoromethane	115	80.7-129		%REC	137147	1	10/27/2010 16:11	JT
Surr: Toluene-d8	93.9	71.1-120		%REC	137147	1	10/27/2010 16:11	JT

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value

Client: ERM-Southeast	Client Sample ID: MW-14-20101019-01
Project: Williamson Dickie	Collection Date: 10/19/2010 9:15:00 AM
Lab ID: 1010J94-015	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,4-Dioxane	BRL	150		ug/L	137147	1	10/27/2010 18:10	JT
Vinyl chloride	BRL	2.0		ug/L	137147	1	10/27/2010 18:10	JT
1,1-Dichloroethene	BRL	5.0		ug/L	137147	1	10/27/2010 18:10	JT
trans-1,2-Dichloroethene	BRL	5.0		ug/L	137147	1	10/27/2010 18:10	JT
cis-1,2-Dichloroethene	BRL	5.0		ug/L	137147	1	10/27/2010 18:10	JT
Trichloroethene	BRL	5.0		ug/L	137147	1	10/27/2010 18:10	JT
Tetrachloroethene	9.8	5.0		ug/L	137147	1	10/27/2010 18:10	JT
Surr: 4-Bromofluorobenzene	85	64.7-130		%REC	137147	1	10/27/2010 18:10	JT
Surr: Dibromofluoromethane	112	80.7-129		%REC	137147	1	10/27/2010 18:10	JT
Surr: Toluene-d8	94.5	71.1-120		%REC	137147	1	10/27/2010 18:10	JT

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value

Client: ERM-Southeast	Client Sample ID: MW-13-20101019-01
Project: Williamson Dickie	Collection Date: 10/19/2010 10:05:00 AM
Lab ID: 1010J94-016	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,4-Dioxane	BRL	150		ug/L	137089	1	10/26/2010 13:11	GK
Vinyl chloride	BRL	2.0		ug/L	137089	1	10/26/2010 13:11	GK
1,1-Dichloroethene	BRL	5.0		ug/L	137089	1	10/26/2010 13:11	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	137089	1	10/26/2010 13:11	GK
cis-1,2-Dichloroethene	6.6	5.0		ug/L	137089	1	10/26/2010 13:11	GK
Trichloroethene	10	5.0		ug/L	137089	1	10/26/2010 13:11	GK
Tetrachloroethene	120	5.0		ug/L	137089	1	10/26/2010 13:11	GK
Surr: 4-Bromofluorobenzene	89.5	64.7-130		%REC	137089	1	10/26/2010 13:11	GK
Surr: Dibromofluoromethane	103	80.7-129		%REC	137089	1	10/26/2010 13:11	GK
Surr: Toluene-d8	97.5	71.1-120		%REC	137089	1	10/26/2010 13:11	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value

Client: ERM-Southeast	Client Sample ID: MW-13A-20101019-01
Project: Williamson Dickie	Collection Date: 10/19/2010 10:40:00 AM
Lab ID: 1010J94-017	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,4-Dioxane	BRL	150		ug/L	137089	1	10/26/2010 16:40	GK
Vinyl chloride	BRL	2.0		ug/L	137089	1	10/26/2010 16:40	GK
1,1-Dichloroethene	BRL	5.0		ug/L	137089	1	10/26/2010 16:40	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	137089	1	10/26/2010 16:40	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	137089	1	10/26/2010 16:40	GK
Trichloroethene	BRL	5.0		ug/L	137089	1	10/26/2010 16:40	GK
Tetrachloroethene	18	5.0		ug/L	137089	1	10/26/2010 16:40	GK
Surr: 4-Bromofluorobenzene	90.1	64.7-130		%REC	137089	1	10/26/2010 16:40	GK
Surr: Dibromofluoromethane	100	80.7-129		%REC	137089	1	10/26/2010 16:40	GK
Surr: Toluene-d8	94.1	71.1-120		%REC	137089	1	10/26/2010 16:40	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value

Client: ERM-Southeast	Client Sample ID: MW-34-20101019-01
Project: Williamson Dickie	Collection Date: 10/19/2010 11:40:00 AM
Lab ID: 1010J94-018	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,4-Dioxane	BRL	150		ug/L	137089	1	10/26/2010 17:10	GK
Vinyl chloride	BRL	2.0		ug/L	137089	1	10/26/2010 17:10	GK
1,1-Dichloroethene	BRL	5.0		ug/L	137089	1	10/26/2010 17:10	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	137089	1	10/26/2010 17:10	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	137089	1	10/26/2010 17:10	GK
Trichloroethene	BRL	5.0		ug/L	137089	1	10/26/2010 17:10	GK
Tetrachloroethene	BRL	5.0		ug/L	137089	1	10/26/2010 17:10	GK
Surr: 4-Bromofluorobenzene	93.8	64.7-130		%REC	137089	1	10/26/2010 17:10	GK
Surr: Dibromofluoromethane	101	80.7-129		%REC	137089	1	10/26/2010 17:10	GK
Surr: Toluene-d8	94.9	71.1-120		%REC	137089	1	10/26/2010 17:10	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value

Client: ERM-Southeast	Client Sample ID: MW-18D-20101019-01
Project: Williamson Dickie	Collection Date: 10/19/2010 2:30:00 PM
Lab ID: 1010J94-019	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,4-Dioxane	BRL	150		ug/L	137089	1	10/27/2010 13:39	GK
Vinyl chloride	BRL	2.0		ug/L	137089	1	10/27/2010 13:39	GK
1,1-Dichloroethene	BRL	5.0		ug/L	137089	1	10/27/2010 13:39	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	137089	1	10/27/2010 13:39	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	137089	1	10/27/2010 13:39	GK
Trichloroethene	BRL	5.0		ug/L	137089	1	10/27/2010 13:39	GK
Tetrachloroethene	17	5.0		ug/L	137089	1	10/27/2010 13:39	GK
Surr: 4-Bromofluorobenzene	94.6	64.7-130		%REC	137089	1	10/27/2010 13:39	GK
Surr: Dibromofluoromethane	97.4	80.7-129		%REC	137089	1	10/27/2010 13:39	GK
Surr: Toluene-d8	95	71.1-120		%REC	137089	1	10/27/2010 13:39	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value

Client: ERM-Southeast	Client Sample ID: MW-4-20101020-01
Project: Williamson Dickie	Collection Date: 10/20/2010 9:05:00 AM
Lab ID: 1010J94-020	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,4-Dioxane	BRL	150		ug/L	137089	1	10/27/2010 14:09	GK
Vinyl chloride	BRL	2.0		ug/L	137089	1	10/27/2010 14:09	GK
1,1-Dichloroethene	BRL	5.0		ug/L	137089	1	10/27/2010 14:09	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	137089	1	10/27/2010 14:09	GK
cis-1,2-Dichloroethene	190	5.0		ug/L	137089	1	10/27/2010 14:09	GK
Trichloroethene	49	5.0		ug/L	137089	1	10/27/2010 14:09	GK
Tetrachloroethene	1700	100		ug/L	137089	20	10/27/2010 16:38	GK
Surr: 4-Bromofluorobenzene	91.8	64.7-130		%REC	137089	1	10/27/2010 14:09	GK
Surr: 4-Bromofluorobenzene	87	64.7-130		%REC	137089	20	10/27/2010 16:38	GK
Surr: Dibromofluoromethane	106	80.7-129		%REC	137089	20	10/27/2010 16:38	GK
Surr: Dibromofluoromethane	100	80.7-129		%REC	137089	1	10/27/2010 14:09	GK
Surr: Toluene-d8	94.6	71.1-120		%REC	137089	1	10/27/2010 14:09	GK
Surr: Toluene-d8	99.3	71.1-120		%REC	137089	20	10/27/2010 16:38	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value

Client: ERM-Southeast	Client Sample ID: MW-1-20101020-01
Project: Williamson Dickie	Collection Date: 10/20/2010 10:05:00 AM
Lab ID: 1010J94-021	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,4-Dioxane	BRL	150		ug/L	137089	1	10/27/2010 14:38	GK
Vinyl chloride	11	2.0		ug/L	137089	1	10/27/2010 14:38	GK
1,1-Dichloroethene	BRL	5.0		ug/L	137089	1	10/27/2010 14:38	GK
trans-1,2-Dichloroethene	20	5.0		ug/L	137089	1	10/27/2010 14:38	GK
cis-1,2-Dichloroethene	1300	1000		ug/L	137089	500	10/27/2010 16:08	GK
Trichloroethene	400	5.0	E	ug/L	137089	1	10/27/2010 14:38	GK
Tetrachloroethene	20000	2500		ug/L	137089	500	10/27/2010 16:08	GK
Surr: 4-Bromofluorobenzene	91.5	64.7-130		%REC	137089	500	10/27/2010 16:08	GK
Surr: 4-Bromofluorobenzene	94.6	64.7-130		%REC	137089	1	10/27/2010 14:38	GK
Surr: Dibromofluoromethane	105	80.7-129		%REC	137089	500	10/27/2010 16:08	GK
Surr: Dibromofluoromethane	100	80.7-129		%REC	137089	1	10/27/2010 14:38	GK
Surr: Toluene-d8	96	71.1-120		%REC	137089	500	10/27/2010 16:08	GK
Surr: Toluene-d8	98.5	71.1-120		%REC	137089	1	10/27/2010 14:38	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value

Client: ERM-Southeast	Client Sample ID: MW-2-20101020-01
Project: Williamson Dickie	Collection Date: 10/20/2010 11:05:00 AM
Lab ID: 1010J94-022	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,4-Dioxane	BRL	150		ug/L	137089	1	10/27/2010 17:40	GK
Vinyl chloride	BRL	2.0		ug/L	137089	1	10/27/2010 17:40	GK
1,1-Dichloroethene	BRL	5.0		ug/L	137089	1	10/27/2010 17:40	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	137089	1	10/27/2010 17:40	GK
cis-1,2-Dichloroethene	23	5.0		ug/L	137089	1	10/27/2010 17:40	GK
Trichloroethene	9.2	5.0		ug/L	137089	1	10/27/2010 17:40	GK
Tetrachloroethene	64	5.0		ug/L	137089	1	10/27/2010 17:40	GK
Surr: 4-Bromofluorobenzene	88.9	64.7-130		%REC	137089	1	10/27/2010 17:40	GK
Surr: Dibromofluoromethane	108	80.7-129		%REC	137089	1	10/27/2010 17:40	GK
Surr: Toluene-d8	96	71.1-120		%REC	137089	1	10/27/2010 17:40	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value

Client: ERM-Southeast	Client Sample ID: MW-10-20101020-01
Project: Williamson Dickie	Collection Date: 10/20/2010 2:05:00 PM
Lab ID: 1010J94-023	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,4-Dioxane	BRL	150		ug/L	137089	1	10/27/2010 15:38	GK
Vinyl chloride	BRL	2.0		ug/L	137089	1	10/27/2010 15:38	GK
1,1-Dichloroethene	BRL	5.0		ug/L	137089	1	10/27/2010 15:38	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	137089	1	10/27/2010 15:38	GK
cis-1,2-Dichloroethene	14	5.0		ug/L	137089	1	10/27/2010 15:38	GK
Trichloroethene	11	5.0		ug/L	137089	1	10/27/2010 15:38	GK
Tetrachloroethene	210	50		ug/L	137089	10	10/28/2010 09:45	GK
Surr: 4-Bromofluorobenzene	90.6	64.7-130		%REC	137089	1	10/27/2010 15:38	GK
Surr: 4-Bromofluorobenzene	94	64.7-130		%REC	137089	10	10/28/2010 09:45	GK
Surr: Dibromofluoromethane	101	80.7-129		%REC	137089	10	10/28/2010 09:45	GK
Surr: Dibromofluoromethane	103	80.7-129		%REC	137089	1	10/27/2010 15:38	GK
Surr: Toluene-d8	96.8	71.1-120		%REC	137089	1	10/27/2010 15:38	GK
Surr: Toluene-d8	96.7	71.1-120		%REC	137089	10	10/28/2010 09:45	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value

Client: ERM-Southeast	Client Sample ID: MW-10A-20101020-01
Project: Williamson Dickie	Collection Date: 10/20/2010 1:05:00 PM
Lab ID: 1010J94-024	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,4-Dioxane	BRL	150		ug/L	137089	1	10/28/2010 10:15	GK
Vinyl chloride	BRL	2.0		ug/L	137089	1	10/28/2010 10:15	GK
1,1-Dichloroethene	BRL	5.0		ug/L	137089	1	10/28/2010 10:15	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	137089	1	10/28/2010 10:15	GK
cis-1,2-Dichloroethene	270	100		ug/L	137089	20	10/28/2010 10:46	GK
Trichloroethene	98	5.0		ug/L	137089	1	10/28/2010 10:15	GK
Tetrachloroethene	1100	100		ug/L	137089	20	10/28/2010 10:46	GK
Surr: 4-Bromofluorobenzene	87.9	64.7-130		%REC	137089	1	10/28/2010 10:15	GK
Surr: 4-Bromofluorobenzene	91	64.7-130		%REC	137089	20	10/28/2010 10:46	GK
Surr: Dibromofluoromethane	104	80.7-129		%REC	137089	20	10/28/2010 10:46	GK
Surr: Dibromofluoromethane	101	80.7-129		%REC	137089	1	10/28/2010 10:15	GK
Surr: Toluene-d8	98.1	71.1-120		%REC	137089	1	10/28/2010 10:15	GK
Surr: Toluene-d8	96	71.1-120		%REC	137089	20	10/28/2010 10:46	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value

Client: ERM-Southeast	Client Sample ID: DUP-2
Project: Williamson Dickie	Collection Date: 10/20/2010 12:00:00 PM
Lab ID: 1010J94-025	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,4-Dioxane	BRL	150		ug/L	137089	1	10/28/2010 11:16	GK
Vinyl chloride	12	2.0		ug/L	137089	1	10/28/2010 11:16	GK
1,1-Dichloroethene	BRL	5.0		ug/L	137089	1	10/28/2010 11:16	GK
trans-1,2-Dichloroethene	19	5.0		ug/L	137089	1	10/28/2010 11:16	GK
cis-1,2-Dichloroethene	1100	1000		ug/L	137089	500	10/28/2010 13:46	GK
Trichloroethene	410	5.0	E	ug/L	137089	1	10/28/2010 11:16	GK
Tetrachloroethene	19000	2500		ug/L	137089	500	10/28/2010 13:46	GK
Surr: 4-Bromofluorobenzene	88.5	64.7-130		%REC	137089	500	10/28/2010 13:46	GK
Surr: 4-Bromofluorobenzene	91.9	64.7-130		%REC	137089	1	10/28/2010 11:16	GK
Surr: Dibromofluoromethane	101	80.7-129		%REC	137089	500	10/28/2010 13:46	GK
Surr: Dibromofluoromethane	102	80.7-129		%REC	137089	1	10/28/2010 11:16	GK
Surr: Toluene-d8	95.1	71.1-120		%REC	137089	500	10/28/2010 13:46	GK
Surr: Toluene-d8	97.7	71.1-120		%REC	137089	1	10/28/2010 11:16	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value

Client: ERM-Southeast	Client Sample ID: MW-9-20101021-01
Project: Williamson Dickie	Collection Date: 10/21/2010 11:55:00 AM
Lab ID: 1010J94-026	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,4-Dioxane	BRL	150		ug/L	137089	1	10/28/2010 14:16	GK
Vinyl chloride	BRL	2.0		ug/L	137089	1	10/28/2010 14:16	GK
1,1-Dichloroethene	BRL	5.0		ug/L	137089	1	10/28/2010 14:16	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	137089	1	10/28/2010 14:16	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	137089	1	10/28/2010 14:16	GK
Trichloroethene	BRL	5.0		ug/L	137089	1	10/28/2010 14:16	GK
Tetrachloroethene	20	5.0		ug/L	137089	1	10/28/2010 14:16	GK
Surr: 4-Bromofluorobenzene	89.6	64.7-130		%REC	137089	1	10/28/2010 14:16	GK
Surr: Dibromofluoromethane	102	80.7-129		%REC	137089	1	10/28/2010 14:16	GK
Surr: Toluene-d8	95.9	71.1-120		%REC	137089	1	10/28/2010 14:16	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value

Client: ERM-Southeast	Client Sample ID: MW-37-20101021-01
Project: Williamson Dickie	Collection Date: 10/21/2010 12:55:00 PM
Lab ID: 1010J94-027	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,4-Dioxane	BRL	150		ug/L	137089	1	10/27/2010 18:10	GK
Vinyl chloride	BRL	2.0		ug/L	137089	1	10/27/2010 18:10	GK
1,1-Dichloroethene	BRL	5.0		ug/L	137089	1	10/27/2010 18:10	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	137089	1	10/27/2010 18:10	GK
cis-1,2-Dichloroethene	7.8	5.0		ug/L	137089	1	10/27/2010 18:10	GK
Trichloroethene	BRL	5.0		ug/L	137089	1	10/27/2010 18:10	GK
Tetrachloroethene	22	5.0		ug/L	137089	1	10/27/2010 18:10	GK
Surr: 4-Bromofluorobenzene	90.7	64.7-130		%REC	137089	1	10/27/2010 18:10	GK
Surr: Dibromofluoromethane	105	80.7-129		%REC	137089	1	10/27/2010 18:10	GK
Surr: Toluene-d8	97.9	71.1-120		%REC	137089	1	10/27/2010 18:10	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value

Client: ERM-Southeast	Client Sample ID: MW-28-20101021-01
Project: Williamson Dickie	Collection Date: 10/21/2010 1:55:00 PM
Lab ID: 1010J94-028	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,4-Dioxane	BRL	150		ug/L	137089	1	10/27/2010 18:40	GK
Vinyl chloride	3.1	2.0		ug/L	137089	1	10/27/2010 18:40	GK
1,1-Dichloroethene	BRL	5.0		ug/L	137089	1	10/27/2010 18:40	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	137089	1	10/27/2010 18:40	GK
cis-1,2-Dichloroethene	16	5.0		ug/L	137089	1	10/27/2010 18:40	GK
Trichloroethene	BRL	5.0		ug/L	137089	1	10/27/2010 18:40	GK
Tetrachloroethene	BRL	5.0		ug/L	137089	1	10/27/2010 18:40	GK
Surr: 4-Bromofluorobenzene	102	64.7-130		%REC	137089	1	10/27/2010 18:40	GK
Surr: Dibromofluoromethane	101	80.7-129		%REC	137089	1	10/27/2010 18:40	GK
Surr: Toluene-d8	96.1	71.1-120		%REC	137089	1	10/27/2010 18:40	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value

Client: ERM-Southeast	Client Sample ID: TRIP BLANK
Project: Williamson Dickie	Collection Date: 10/22/2010
Lab ID: 1010J94-029	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,4-Dioxane	BRL	150		ug/L	137089	1	10/26/2010 12:41	GK
Vinyl chloride	BRL	2.0		ug/L	137089	1	10/26/2010 12:41	GK
1,1-Dichloroethene	BRL	5.0		ug/L	137089	1	10/26/2010 12:41	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	137089	1	10/26/2010 12:41	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	137089	1	10/26/2010 12:41	GK
Trichloroethene	BRL	5.0		ug/L	137089	1	10/26/2010 12:41	GK
Tetrachloroethene	BRL	5.0		ug/L	137089	1	10/26/2010 12:41	GK
Surr: 4-Bromofluorobenzene	89.1	64.7-130		%REC	137089	1	10/26/2010 12:41	GK
Surr: Dibromofluoromethane	105	80.7-129		%REC	137089	1	10/26/2010 12:41	GK
Surr: Toluene-d8	94.8	71.1-120		%REC	137089	1	10/26/2010 12:41	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client ERM

Work Order Number 1010594

Checklist completed by M.J. 10/23/10
Signature Date

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Container/Temp Blank temperature in compliance? (4°C±2)* Yes No

Cooler #1 3.4C Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler #5 _____ Cooler #6 _____

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? 10/23/10 M.D. Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Was TAT marked on the COC? Yes No

Proceed with Standard TAT as per project history? Yes No Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted Yes No

Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by _____

Sample Condition: Good Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: ERM-Southeast
Project Name: Williamson Dickie
Workorder: 1010J94

ANALYTICAL QC SUMMARY REPORT

BatchID: 137089

Sample ID: MB-137089	Client ID:	Units: ug/L	Prep Date: 10/26/2010	Run No: 183117							
SampleType: MBLK	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 137089	Analysis Date: 10/26/2010	Seq No: 3812815							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	0
1,4-Dioxane	BRL	150	0	0	0	0	0	0	0	0	0
cis-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	0
Tetrachloroethene	BRL	5.0	0	0	0	0	0	0	0	0	0
trans-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	0
Trichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	0
Vinyl chloride	BRL	2.0	0	0	0	0	0	0	0	0	0
Surr: 4-Bromofluorobenzene	44.59	0	50	0	89.2	64.7	130	0	0	0	0
Surr: Dibromofluoromethane	52.90	0	50	0	106	80.7	129	0	0	0	0
Surr: Toluene-d8	47.80	0	50	0	95.6	71.1	120	0	0	0	0

Sample ID: LCS-137089	Client ID:	Units: ug/L	Prep Date: 10/26/2010	Run No: 183117							
SampleType: LCS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 137089	Analysis Date: 10/26/2010	Seq No: 3812813							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	59.01	5.0	50	0	118	51	154	0	0	0	0
Trichloroethene	57.07	5.0	50	0	114	73.9	132	0	0	0	0
Surr: 4-Bromofluorobenzene	44.23	0	50	0	88.5	64.7	130	0	0	0	0
Surr: Dibromofluoromethane	51.72	0	50	0	103	80.7	129	0	0	0	0
Surr: Toluene-d8	48.03	0	50	0	96.1	71.1	120	0	0	0	0

Sample ID: 1010J94-016AMS	Client ID: MW-13-20101019-01	Units: ug/L	Prep Date: 10/26/2010	Run No: 183117							
SampleType: MS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 137089	Analysis Date: 10/26/2010	Seq No: 3814302							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	52.45	5.0	50	0	105	46.2	183	0	0	0	0
Trichloroethene	64.30	5.0	50	10.20	108	70.5	149	0	0	0	0
Surr: 4-Bromofluorobenzene	47.32	0	50	0	94.6	64.7	130	0	0	0	0

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: ERM-Southeast
 Project Name: Williamson Dickie
 Workorder: 1010J94

ANALYTICAL QC SUMMARY REPORT

BatchID: 137089

Sample ID: 1010J94-016AMS	Client ID: MW-13-20101019-01	Units: ug/L	Prep Date: 10/26/2010	Run No: 183117							
SampleType: MS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 137089	Analysis Date: 10/26/2010	Seq No: 3814302							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Surr: Dibromofluoromethane	48.89	0	50	0	97.8	80.7	129	0	0	0	
Surr: Toluene-d8	46.65	0	50	0	93.3	71.1	120	0	0	0	

Sample ID: 1010J94-016AMSD	Client ID: MW-13-20101019-01	Units: ug/L	Prep Date: 10/26/2010	Run No: 183117							
SampleType: MSD	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 137089	Analysis Date: 10/26/2010	Seq No: 3814303							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	52.33	5.0	50	0	105	46.2	183	52.45	0.229	20	
Trichloroethene	64.12	5.0	50	10.20	108	70.5	149	64.30	0.28	20	
Surr: 4-Bromofluorobenzene	47.02	0	50	0	94	64.7	130	47.32	0	0	
Surr: Dibromofluoromethane	49.52	0	50	0	99	80.7	129	48.89	0	0	
Surr: Toluene-d8	47.55	0	50	0	95.1	71.1	120	46.65	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: ERM-Southeast
Project Name: Williamson Dickie
Workorder: 1010J94

ANALYTICAL QC SUMMARY REPORT

BatchID: 137147

Sample ID: MB-137147	Client ID:	Units: ug/L	Prep Date: 10/26/2010	Run No: 183215							
SampleType: MBLK	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 137147	Analysis Date: 10/26/2010	Seq No: 3814681							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	0
1,4-Dioxane	BRL	150	0	0	0	0	0	0	0	0	0
cis-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	0
Tetrachloroethene	BRL	5.0	0	0	0	0	0	0	0	0	0
trans-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	0
Trichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	0
Vinyl chloride	BRL	2.0	0	0	0	0	0	0	0	0	0
Surr: 4-Bromofluorobenzene	42.08	0	50	0	84.2	64.7	130	0	0	0	0
Surr: Dibromofluoromethane	50.31	0	50	0	101	80.7	129	0	0	0	0
Surr: Toluene-d8	45.34	0	50	0	90.7	71.1	120	0	0	0	0

Sample ID: LCS-137147	Client ID:	Units: ug/L	Prep Date: 10/26/2010	Run No: 183215							
SampleType: LCS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 137147	Analysis Date: 10/26/2010	Seq No: 3814679							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	60.60	5.0	50	0	121	51	154	0	0	0	0
Trichloroethene	61.83	5.0	50	0	124	73.9	132	0	0	0	0
Surr: 4-Bromofluorobenzene	43.13	0	50	0	86.3	64.7	130	0	0	0	0
Surr: Dibromofluoromethane	49.11	0	50	0	98.2	80.7	129	0	0	0	0
Surr: Toluene-d8	44.41	0	50	0	88.8	71.1	120	0	0	0	0

Sample ID: 1010J94-002AMS	Client ID: MW-19-20101014-01	Units: ug/L	Prep Date: 10/26/2010	Run No: 183215							
SampleType: MS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 137147	Analysis Date: 10/26/2010	Seq No: 3814697							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	68.41	5.0	50	0	137	46.2	183	0	0	0	0
Trichloroethene	63.40	5.0	50	0	127	70.5	149	0	0	0	0
Surr: 4-Bromofluorobenzene	41.81	0	50	0	83.6	64.7	130	0	0	0	0

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: ERM-Southeast
Project Name: Williamson Dickie
Workorder: 1010J94

ANALYTICAL QC SUMMARY REPORT

BatchID: 137147

Sample ID: 1010J94-002AMS	Client ID: MW-19-20101014-01	Units: ug/L	Prep Date: 10/26/2010	Run No: 183215							
SampleType: MS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 137147	Analysis Date: 10/26/2010	Seq No: 3814697							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Surr: Dibromofluoromethane	50.54	0	50	0	101	80.7	129	0	0	0	
Surr: Toluene-d8	44.46	0	50	0	88.9	71.1	120	0	0	0	

Sample ID: 1010J94-002AMSD	Client ID: MW-19-20101014-01	Units: ug/L	Prep Date: 10/26/2010	Run No: 183215							
SampleType: MSD	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 137147	Analysis Date: 10/26/2010	Seq No: 3814700							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	69.77	5.0	50	0	140	46.2	183	68.41	1.97	20	
Trichloroethene	59.25	5.0	50	0	118	70.5	149	63.40	6.77	20	
Surr: 4-Bromofluorobenzene	41.60	0	50	0	83.2	64.7	130	41.81	0	0	
Surr: Dibromofluoromethane	49.60	0	50	0	99.2	80.7	129	50.54	0	0	
Surr: Toluene-d8	43.18	0	50	0	86.4	71.1	120	44.46	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Appendix M

Plan to Maintain Compliance

**PLAN TO MAINTAIN COMPLIANCE
DICKIES INDUSTRIAL SERVICES SITE (former) – HSI #10127**

The Dickies Industrial Services, Incorporated (“DISI”) property has been fully delineated and corrective action has been completed for Tax Parcel No. 130036LL1463 and Tax Parcel No. 130036LL1356 (“DISI property”) in accordance with the Type 3/4 Risk Reduction Standards as documented in the Voluntary Compliance Status Report. To assure continued compliance with the Type 3/4 Risk Reduction Standards for soil, the owner of the DISI property shall implement this Plan To Maintain Compliance (“Plan”).

1.0 MONITORING TO ASSURE COMPLIANCE WITH TYPE 3/4 RISK REDUCTION STANDARDS. The owner of the DISI property shall institute and conduct the following monitoring program to assure continued compliance with Type 3/4 Risk Reduction Standards for soil:

- A.** Review of Contracts and other written Agreements. The owner of the DISI property shall review each contract and lease agreement that it enters into concerning the DISI property, and each informal agreement regarding the use of the site, to ensure that such contracts and agreements will not result in the use of the DISI property for any purpose that is inconsistent with the non-residential status on which the Type 3/4 Risk Reduction Standards for soil are based.
- B.** On-Site Monitoring. The owner of the DISI property shall monitor the DISI property to ensure that its actual use by tenants or other authorized occupants is consistent with Type 3/4 Risk Reduction Standards for soil. To fulfill this requirement, an on-site inspection of the DISI property shall be conducted at least annually.

2.0 ANNUAL WRITTEN REPORT AND CERTIFICATION TO EPD. On or before July 1 of each year, the owner of the DISI property shall submit an annual written report, in the form provided in Exhibit 1, to the Hazardous Sites Response Program to certify its continued compliance with this Plan. In each report, the owner of the DISI property shall certify that it has not entered into any contract or other written agreement that grants a use of the site that is inconsistent with the non-residential status on which the Type 3/4 Risk Reduction Standards for soil are based. It shall further certify that, based on the on-site inspection, the actual use of the site is consistent with its non-residential status. The report shall include the following certification.

“I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluate that 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 and 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.”

- 3.0 NOTICE TO GEORGIA EPD PRIOR TO TRANSFER OF PROPERTY.** In the event that an owner of the DISI property conveys the whole or any part of its ownership interest in the DISI property or in the event that title to the real property at the DISI property is conveyed, in whole or in part, to any other person by operation of law, the owner of the DISI property shall, not fewer than thirty (30) days after the transfer, notify Georgia EPD in writing of the name and address of the transferee or successor in title, and of the nature and date of the transfer or conveyance.
- 4.0 DURATION OF PLAN.** This Plan shall remain in full force and effect until such time as the Director determines that the DISI property meets the Type 1/2 Risk Reduction Standards for soil, and therefore no further action is required.

EXHIBIT 1

ANNUAL WRITTEN REPORT AND CERTIFICATION OF COMPLIANCE
WITH TYPE 3/4 RISK REDUCTION STANDARDS FOR SOIL

Ms. Alexandra Cleary
Hazardous Site Response Program
Georgia Environmental Protection Division
205 Butler Street, S.E., Suite 1162
Atlanta, GA 30334

Re: Dickies Industrial Services, Inc. (“DISI”) Annual Monitoring Report
Tax Parcel No. 130036LL1463 and Tax Parcel No. 130036LL1356

Dear Ms. Cleary:

[Owner’s name] hereby certifies that it has complied with the terms of the Plan To Maintain Compliance for the above-referenced tax parcels (the “DISI property”). This annual report is submitted to fulfill the requirements of the Plan To Maintain Compliance, a copy of which is attached for your reference.

In compliance with the Plan To Maintain Compliance, [owner’s name] has carefully reviewed each contract and lease agreement, and other written agreement, that it has entered into regarding the DISI property. [Owner’s name] hereby certifies that no such agreement will result in a use of the DISI property that is inconsistent with the non-residential status on which the Type 3/4 Risk Reduction Standards for soil are based.

In compliance with the Plan To Maintain Compliance, [owner’s name] conducted an on-site inspection of the DISI property on _____, 20____. This inspection was conducted by _____. This inspection was conducted to verify that the actual use of the site by tenants and other occupants is and has been consistent with its non-residential status. The inspection revealed no evidence of any inconsistent use.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate that 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 and accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

By: _____

Title: _____

Date: _____

STATEMENT OF FINDINGS

As required by the rules for the Voluntary Remediation Program (“VRP”), this section presents a concise statement of findings of this Voluntary Compliance Status Report (VCSR). The purpose of this document is to provide final resolution of soil contamination and to certify compliance with the applicable Risk Reduction Standards (RRS) within the framework of Georgia’s Voluntary Remediation Program. Excavation activities were performed to remove, transport and dispose of the soils that contained regulated constituents above the applicable RRS. This document will provide the summary of activities conducted to demonstrate compliance with the applicable RRS.

Background

This VCSR is for the former Dickies Industrial Services, Inc. (DISI) facility (“the facility” or “the site”) located at 2411 Sullivan Road in College Park, Georgia. Four (4) parcels are enrolled in the VRP. Three (3) are owned by DISI and one (1) is owned by Coca Cola Refreshments, USA, Inc. (CCR). During the period 1970 to 1984 the DISI facility conducted dry cleaning activities. The facility is currently used for warehouse/distribution activities. Site investigation activities began in 1987 and site remediation activities begin in 1999.

This site was placed on Georgia’s Hazardous Sites Inventory (HSI) in 1994 because of the Reportable Quantities Screening Method (RQSM) On-Site Exposure Pathway score exceeded the threshold of 20. This Site did not score high enough on the RQSM calculations to be listed on the HSI for the Ground Water Pathway.

The soil cleanup standards that will be used for this site will be the RRS currently used in the HSRA program. The RRS that are guiding corrective action for soils were approved in EPD correspondence dated October 12, 2005. Ground water cleanup standards are not included for this site, since ground water cleanup is not required per Section 12-8-107(g)(2) of the VRP Act.

Chemicals of Interest at this Site

Tetrachloroethene (PCE) and its degradation products are chemicals of interest at this Site. This is based on review of chemicals used at the facility and soil and ground water quality data collected during previous environmental investigations. Constituents found in ground water include the following: tetrachloroethene, trichloroethylene, cis-1,2-dichloroethene, trans-1,2-dichloroethene 1,1-dichloroethene and vinyl chloride. Beginning in 2009 the

analysis suite also included 1,4-dioxane, per request from the EPD. 1,4-dioxane has not been detected in soil or ground water samples.

Summary of Soil Remediation and Investigation Status

Although the release details are not known, the soil investigation data show that the regulated compounds were most likely released from former dry cleaning operations on the north end of the building. Following the removal of soils described in the December 2010 Soil Removal Report to the EPD, soil samples were collected from the base and sidewalls of each excavation area to confirm that soil exceeding RRS for PCE and its degradation products was removed and that compliance with RRS was achieved. Thus, soil remediation has been performed such that soils do not remain on site above the Type 3/4 RRS.

Summary of Ground Water Remediation and Conditions

Ground water corrective action was performed under the HSRA program, as described in the Annual Reports on Corrective Action Progress that have been submitted to the EPD in 2004, 2005, 2006, 2007, 2008, and 2009. A combination of remedial technologies was used to address concentrations of tetrachloroethene and its degradation products that exceeded the RRS.

Additional ground water cleanup is not required under the Voluntary Remediation Program, per Section 12-8-107(g)(2) of the VRP Act.

Risk Reduction Standards and Site Compliance

The following tax parcels in the VRP are in compliance with Type 1 Risk Reduction Standards for soil:

Tax Parcel ID No. 130036LL1349 (owned by DISI)

Tax Parcel ID No. 130036LL1414 (owned by CCR)

The following parcels in the VRP are in compliance with the Type 3/Type 4 Risk Reduction Standards for soil:

Tax Parcel ID No. 130036LL1463 (owned by DISI)

Tax Parcel ID No. 130036LL1356 (owned by DISI)

Continuing Actions To Maintain Compliance

To assure continued compliance with the Type 3/4 Risk Reduction Standards for soil, the owner of the DISI property will implement a Plan to Maintain Compliance, including but not limited to submittal of an annual written report and certification to EPD.

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 following tax parcels are in compliance with Type 1 Risk Reduction Standards for soil:

Tax Parcel ID No.	130036LL1349
Tax Parcel ID No.	130036LL1414

The following parcels are in compliance with the Type 3/Type 4 Risk Reduction Standards for soil:

Tax Parcel ID No.	130036LL1463
Tax Parcel ID No.	130036LL1356

These tax parcels are shown in the Tax Parcel Map located in Appendix A. The property owners' contact information is provided in Appendix B.

Certified By: Joan B. Sasine Date: 3/30/11
Joan B. Sasine
Attorney for Dickies Industrial Services, Inc.

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. 10127 was prepared by me and appropriate qualified subordinates working under my direction.

A summary of the hours spent by the Professional Engineer's firm is provided in Appendix C, in order to comply with Voluntary Remediation Plan Act.

Shanna Thompson

Shanna Thompson, P.E.
Georgia License No. PE031306

3/30/2011
Date



1.0 INTRODUCTION

1.1 OVERVIEW

Environmental Resources Management (ERM) has prepared this Voluntary Compliance Status Report (VCSR) on behalf of Dickies Industrial Services, Inc (“DISI”). The VCSR is prepared for the former DISI facility (the “facility” or “the Site”), which is currently listed on the Georgia Hazardous Site Inventory (HSI #10127) as a result of previous releases of hazardous substances. The Site is located at 2411 Sullivan Road in College Park, Georgia (see [Figure 1](#)). Figure 2, which is a plan view of the facility, shows the building and the former location of the dry cleaning operations. The building is currently utilized by DISI as warehouse/distribution space. No dry cleaning activities currently take place at the facility.

Four (4) parcels comprise the Site and are in the VRP due to the presence of regulated substances in soil. Three (3) of the parcels are located on Sullivan Road in College Park, a suburb of Atlanta, Georgia (see [Figure 1](#)) and are owned by DISI. They include approximately 2.25 acres. A single story building having approximately 40,000 square feet of floor space occupies this area of the facility. A dry cleaning operation was formerly located at the northern end of the building. The fourth parcel is on the west, east and north of the DISI parcels and contains a 60-foot wide ingress and egress easement used by DISI. The fourth parcel is owned by Coca-Cola Refreshments USA, Inc. (“CCR”). CCR has given Dickies express permission to enter the CCR property to perform corrective action pursuant to a December 1, 2010 Access Agreement between CCR and DISI. The original VRP application included only two of these parcels, and the other two parcels were added to the VRP via correspondence from Joan Sasine of Bryan Cave to EPD dated February 3, 2011.

Other properties near the facility that exhibit concentrations of regulated substances in ground water include Puja Partners, LLC, Sears Roebuck & Company, Blount Construction Company, and a CSX Railroad right-of-way located on CCR’s property.

1.2 *CHEMICALS OF INTEREST*

Tetrachloroethene (PCE) and its degradation products are the chemicals of interest at the DISI facility. This determination is based upon the facility's history as an industrial dry-cleaning site and sampling and analysis work that dates as far back as 1987. Regulated constituents found in soil include the following: tetrachloroethene, trichloroethene, cis-1,2-dichloroethene and trans-1,2-dichloroethene.

Regulated constituents found in ground water include the following: tetrachloroethene, trichloroethene, cis-1,2-dichloroethene, trans-1,2-dichloroethene 1,1-dichloroethene and vinyl chloride. Beginning in 2009 the analysis suite also included 1,4-dioxane, per a request from the EPD. 1,4-dioxane has not been detected in soil or ground water samples. At one point, chloroform was detected in ground water samples; however this was determined to not be attributable to releases from the DISI Site.

Over the course of correspondence between consultants and the EPD, a set of RRS was approved to guide remediation efforts at this Site. A copy of pertinent information and a table of the approved RRS are provided in [Appendix D](#).

1.3 *HSI SITE STATUS*

This Site was placed on Georgia's Hazardous Sites Inventory (HSI) in 1994 because of the Reportable Quantities Screening Method (RQSM) On-Site Exposure Pathway score exceeded the threshold of 20. This Site did not score high enough on the RQSM calculations to be listed on the HSI for the Ground Water Pathway.

This Site was accepted into Georgia's Voluntary Remediation Program on November 15, 2010.

1.4 *PURPOSE OF THIS DOCUMENT*

The purpose of this document is to provide final resolution of soil contamination and to certify compliance with the applicable RRS within the framework of Georgia's Voluntary Remediation Program. Excavation activities were performed to remove, transport and dispose of the soils that contained constituents above the applicable RRS. This document will provide the summary of activities conducted to demonstrate compliance with the applicable RRS.

1.5

ORGANIZATION

This Voluntary Compliance Status Report presents a discussion of the regulatory status and Certification of Compliance with Risk Reduction Standards for HSI Site 10127, via the Voluntary Remediation Program Act, as follows:

- Section 2 presents a discussion of the Site location and potential sources of regulated compounds;
- Section 3 presents a summary of previous investigations and the contaminants of concern identified at the Site;
- Section 4 presents a series of soil delineation maps;
- Section 5 presents a summary of ground water conditions.
- Section 6 describes the corrective action activities that have already been performed at this site, including soil vapor extraction, soil excavation, and ground water treatment via air sparging, chemical oxidation, and enhanced passive remediation;
- Section 7 presents the results of soil sampling performed to document compliance with the Site specific RRS in soil.
- Section 8 presents a discussion of RRS and Site compliance.
- Section 9 describes the responsible party that has been performing investigation since 1987 and remediation since 1999.
- Section 10 describes the public notice provided by DISI.
- Section 11 describes the continuing actions that will be in place pending approval of this VCSR.

2.0 *SITE BACKGROUND & CONCEPTUAL SITE MODEL*

2.1 *LOCATION AND DESCRIPTION*

The location of the Site is provided on [Figure 1](#). A tax parcel location map showing the four parcels in the VRP is included in [Appendix A](#). The Site is located at 2411 Sullivan Road in College Park, Fulton County, Georgia. The area near the Site includes commercial and industrial properties.

2.2 *POTENTIAL SOURCES OF REGULATED MATERIALS*

The facility building was constructed in 1969 and operated as an industrial laundry from 1970 to 1984. Operations at the plant from 1970 to 1984 included the use of PCE and associated distillation equipment for recovery and recycling of this material. Residual PCE and degradation products (i.e., trichloroethylene (TCE) and 1,2-dichloroethylene (1,2-DCE)) in subsurface soils (the “source area”) were the result of unknown PCE releases on-Site. Descriptions of select equipment and processes are included below. The location of dry cleaning process activities is shown in [Figure 2](#).

Pretreatment of wastewater generated by the on-Site laundering process consisted of settling out solids, grease and other materials in an underground wastewater settling tank (a.k.a. sewer tank). The pretreated wastewater was monitored and discharged into the public sewer in accordance with a permit from the city of College Park. The approximate location of the sewer tank is shown on [Figure 2](#). This sewer tank was excavated and removed during the 2010 soil excavation activities.

From approximately 1980 to 1984, a 500-gallon above ground tank was located indoors and used to collect still bottoms and spent dry cleaning fluids. Contents of the tank were removed on an as-needed basis by reclaiming contractors. The approximate location of this tank is shown on [Figure 2](#).

Empty 55-gallon drums, which previously contained dry-cleaning related fluids and laundry detergents, were temporarily staged adjacent to the northwest corner of the building for transport off-Site. The approximate location of the drum storage was just north of the former sewer tank.

2.3

SITE DESCRIPTION

This section of the VCSR provides a description of the properties which are a part of the Site, including the address and location of such property, its legal description, and the property owner name, address and telephone number, as required by Section 391-3-19-.06(3)(b)(5) of the Rules. As defined by Section 391-3-19-02(2), the Site means that portion of the owner's contiguous property and any other owner's property affected by a release exceeding a reportable quantity.

The following properties are enrolled in the VRP:

- Dickies Industrial Services, Inc. (Tax Parcels 130036LL1463, 130036LL1456, and 130036LL1349,
- Coca-Cola Refreshments USA, Inc. (Tax Parcel 130036LL1414

A map of the tax parcels is provided in [Appendix A](#). The property owners' names, addresses and telephone numbers are included in [Appendix B](#).

2.4

RISK REDUCTION STANDARDS

A summary of cleanup standards to be used for this Site in the Voluntary Remediation Program is provided in [Appendix D](#).

The soil cleanup standards that will be used for this Site will be the RRS currently used in the HSRA program. The RRS that are guiding corrective action for soils were approved in EPD correspondence dated October 12, 2005. For the compounds of interest at this Site the surface and subsurface RRS were calculated to be equal, so only a single soil RRS is listed in [Appendix D](#).

Ground water cleanup standards are not included for this site, since ground water cleanup is not required per Section 12-8-107(g)(2) of the VRP Act, which states:

“The participant shall not be required to perform corrective action or to certify compliance for ground water if the voluntary remediation property was listed on the inventory as a result of a release to soil exceeding a reportable quantity for soil but was not listed on the inventory as a result of a release to ground water exceeding a reportable quantity, and

if the participant further demonstrates to the director at the time of enrollment that a release exceeding a reportable quantity for ground water does not exist at the voluntary remediation property; and the ground water protection requirements for soils shall be based on protection of the established point of exposure for ground water as provided under this part... ”

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 regulated chemical from a release at the facility. The building at the facility is currently occupied and is used as warehouse/distribution space. The area surrounding the facility is used for commercial activities. The following sections discuss the details of the Conceptual Site Model, as organized by the exposure pathway: soil exposure, ground water exposure, surface water exposure, and vapor exposure.

Although the release details are not known, the soil investigation data show that the regulated compounds were most likely released from former dry cleaning operations on the north end of the building.

2.5.1 *Assessment of The Soil Exposure Pathway*

The soil pathway is a pathway that could potentially be completed by industrial workers at the facility; however, investigation and remediation activities have brought the Site soils to levels that do not pose unacceptable risk. Soil remediation has been performed such that there are no longer soils that exceed the Type 3/4 RRS. The Type 3/4 RRS are calculated in a manner that considers 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*

Because the facility and surrounding area are served by a municipal water supply system, ground water is not being used for human consumption. Therefore, the human exposure to contaminated ground water is not currently an exposure pathway. A map of the potential ground water

receptors within three miles of the Site is provided in Figure 3. This Receptor Map shows that no ground water receptors were located in the downgradient direction within three miles of the Site. This fact is important when considering this Site relative to Section 107(g)(2) of the VRP Act.

2.5.3 *Assessment Of The Surface Water Exposure Pathway*

Surface water cleanup standards were not calculated because the surface water pathway was determined to be incomplete, due to the fact that:

- (1) Soils formerly above RRS have been remediated.
- (2) There are not surface water bodies within the vicinity of the soil remediation effort.

The facility and adjacent properties are not shown as wetlands on the National Wetlands Inventory maps prepared by the U.S. Fish and Wildlife Service. With the exception of some wet-weather ditches and other man-made depressions, no wetland-like areas are present on the Site. No perennial streams or other surface water bodies have been observed on or near the facility. A map showing the location of the nearest surface water feature is provided as Figure 4.

2.5.4 *Assessment of the Vapor Intrusion Exposure Pathway*

Potential human receptor groups in the area include facility workers located on the properties that exhibit concentrations of volatile organic compounds (VOCs) in ground water samples.

2.5.4.1 *Initial Vapor Intrusion Assessment*

The vapor intrusion assessment for this Site is based on OSWER guidance (EPA, 2002), which provides a three-tiered approach to determine if there is a completed vapor intrusion pathway that causes unacceptable risk levels.

TIER 1 (Primary Screening) has three basic questions designed to screen out sites at which vapor intrusion pathway does not ordinarily need further consideration. For the subject Site:

- Chemicals of sufficient volatility and toxicity are known to be present in the subsurface (e.g. PCE and it's degradation products) and

- Buildings are located near the subsurface contaminants (e.g. DISI facility).

Since the above information does not indicate an incomplete vapor intrusion pathway, the assessment is carried forward to TIER 2.

TIER 2 (Secondary Screening) has two multipart questions which are structured to use existing data to assess the vapor intrusion pathway. For the subject Site:

- Indoor air data are not currently available,
- There is confirmed contamination (i.e. source of vapors) in the unsaturated zone, and
- measured ground water concentrations for select compounds exceed ground water target levels at a risk of 10⁻⁵ (Georgia's acceptable risk level).

Furthermore, ground water concentrations of select compounds exceed target concentrations by more than a factor of 50. Therefore, based on screening presented in the TIER 1 and TIER 2 assessments, Site-specific evaluations were conducted at the subject site.

TIER 3 calls for a site-specific evaluation of the vapor intrusion pathway beyond secondary screening using (1) collection of soil gas samples and/or (2) computer modeling. During 2010, both of these site specific evaluation methods were used to assess the level of risk posed to human receptors by vapor intrusion from the ground water plume.

2.5.4.2

Soil Gas Sampling

Subslab soil gas samples were collected from three locations beneath the DISI facility. Subslab soil gas probes were collected from immediately below the facility's concrete slab. Soil gas probes were installed beneath the slab by installing a 1" diameter boring in the slab. The soil gas probes were constructed of a 1.5" ceramic tip connected to 0.125" OD Nylaflo® tubing and completed with a gas-tight Swagelok nut and cap. After placing the tip and tubing into the boring, clean silica sand was used to fill the annular space around the tip to a height of 0.5" above the tip. Following emplacement of the silica sand filter pack, approximately 1" of hydrated granular bentonite was placed in the annular space around the probe. The vapor probe was completed to the surface with hydrated hydraulic cement. Vapor probe design and locations are described in Appendix E.

After allowing the hydraulic cement to set (~15 minutes), the vapor probe was enclosed with a shroud that was pressurized with helium. The vapor probe was connected to a gas-tight Nylaflow tube which exited the shroud and connected to a peristaltic pump. The peristaltic pump was switched on and allowed to pump >3 well volumes from the vapor probe. After purging at least 3 well volumes, a helium detector was used to confirm the absence of helium in the effluent vapor stream. In order to confirm that the shroud was filled with helium, the helium detector was connected to a valved port open to the inside of the shroud. Any vapor probes that allowed helium to enter the sample stream were replaced with new equipment.

Vapor samples were collected using 200 mL/min flow regulators in 6 liter batch certified-clean summa canisters. The samples were analyzed by AirToxics Laboratory using EPA method TO-15 for tetrachloroethene, associated daughter products, and 1,4-dioxane. The laboratory reports from this soil vapor sampling event are provided in Appendix F. Results from the three vapor samples, shown in the table below, along with site-specific lithologic information were used as inputs to the Johnson and Ettinger model to further evaluate the vapor intrusion pathway.

Table - Subslab vapor data summary

Compound	V-1 (ppbv)	V-2 (ppbv)	V-3 (ppbv)	V-3 dup (ppbv)
Vinyl Chloride	<0.72	<0.72	<0.78	<0.78
cis-1,2-Dichloroethene	<0.72	<0.72	<0.78	<0.78
Trichloroethene	<0.72	1.5	1.6	1.5
Tetrachloroethene	3.6	6.0	35	33
trans-1,2-Dichloroethene	<0.72	<0.73	<0.78	<0.78
1,4-Dioxane	<2.9	<2.9	<3.1	<3.1

Bold concentrations are greater than the "Target Shallow Soil Gas Concentration Corresponding to Target Indoor Air Concentration Where the Soil Gas to Indoor Air Attenuation Factor=0.1" values given in OSWER, 2002 at the 10-5 risk level.

2.5.4.3 Vapor Intrusion Modeling

Since select compound concentrations were greater than screening levels given in OSWER¹, 2002 (i.e. the bold data in the table above), the Johnson and Ettinger² model was used to determine concentrations of regulated

¹ EPA, 2002. OSWER Draft Guidance for Evaluating the Vapor Intrusion to Indoor Air Pathway from Ground water and Soils Subsurface Vapor Intrusion Guidance. November 2002. EPA530-D-02-004.

² Johnson, P.C., and R.A. Ettinger. 1991. Heuristic model for predicting the intrusion rate of contaminant vapors in buildings. Environ. Sci. Technol. 25: 1445-1452.

compounds representing an unacceptable risk. The Johnson and Ettinger (1991) model is a one-dimensional analytical solution to convective and diffusive vapor transport into indoor spaces.

Modeling to Assess Vapor Intrusion Risk input parameters used in the tetrachloroethene (PCE) and trichloroethene (TCE) soil gas screening models and output from the models are shown in [Appendix G](#). Input parameters given in [Appendix G](#) represent either default parameters suggested by the model or Site-specific parameters (e.g. LF, LS, TS, and lithology). **PCE and TCE were the only compounds detected above laboratory detection limits in the vapor samples, thus they are the only compounds carried forward in the vapor intrusion assessment.**

Boring logs for borings installed in the vicinity of the vapor probes indicate the subsurface lithology to be sandy clay or a clayey sand. Since a clayey sand would likely have a higher permeability and therefore represent a “worst-case” scenario, the soil classification system (SCS) classification of sandy loam (SL) was used to represent subsurface lithology.

Results from the Johnson and Ettinger (1991) model indicate that the incremental risk from vapor intrusion to indoor air for carcinogenic effects at the DISI facility is 1.9×10^{-7} , which is orders of magnitude less than the 1×10^{-5} risk level allowed. Furthermore, the hazard quotient from vapor intrusion to indoor air for noncarcinogenic effects is 1.2×10^{-4} .

Similarly, results from the Johnson and Ettinger (1991) model for TCE indicate that the incremental risk from vapor intrusion to indoor air for carcinogenic effects at the DISI facility is 1.3×10^{-7} , which is orders of magnitude less than the 1×10^{-5} risk level allowed. Furthermore, the hazard quotient from vapor intrusion to indoor air for noncarcinogenic effects from TCE is 6.7×10^{-5} .

2.5.4.4 *Vapor Intrusion Conclusions*

Based on results presented above, measured soil gas concentrations do not represent unacceptable risks due to the vapor intrusion pathway in this industrial setting.

3.0

SUMMARY OF SITE INVESTIGATION

This section of the VCSR provides a summary of previous Site investigations. The previous Site investigations were performed in a step-wise approach that occurred over the past 24 years. In order to convey the results of multiple years of data collection, the discussion has been arranged to follow the timeline of the major submittals to the EPD regarding investigation and remediation activities at this HSI Site. This timeline is as follows:

- Investigation Prior to the Compliance Status Report (1987 - 2001)
- Investigation Performed During Corrective Action (2001 - 2010)
- Soil Removal Report (Dec 2010)

The Site investigation and delineation results from each period are summarized below.

3.1

INVESTIGATION PRIOR TO THE INITIAL COMPLIANCE STATUS REPORT (1987-2001)

The original CSR effort was for the purpose of delineating the extent of contamination, as described in a series of CSR submittals to the EPD from 1998 through August 15, 2000. The CSR was approved by the EPD on February 14, 2001. The original CSR compiled data collected by the previous consultants, along with data collected by ERM, in order to show site delineation. A summary of the investigations conducted by the various consultants is provided in the list below.

- Atlanta Testing & Engineering, Inc. (AT&E) – Beginning 1987
 - Performed an assessment of the former Eastern Foods property (now CCR)
 - Installed one monitoring well
- Hill-Fister Engineers, Inc. - Beginning 1987
 - Installed three monitoring wells
 - Collected two soil samples

- Camp Dresser & McKee (CDM) - Beginning 1990
 - Performed a Phase I Environmental Assessment
 - Performed a Phase II Environmental Assessment
 - Installed seven soil borings
 - Installed eight monitor wells (MW-1 through MW-8)
Collected soil gas samples and ground water samples using soil probe techniques
 - Collected and analyzed numerous soil samples and ground water samples for VOCs, and
 - Measured water levels and conducted hydraulic conductivity tests to evaluate ground water occurrence and movement.

- Law Associates, Inc. (Law) - Beginning 1991
 - Performed a Phase II Assessment at the Mini Storage property west of the facility (this parcel is currently owned by Puja Properties).
 - Installed three monitoring wells

- RMT - Beginning 1993
 - Installed 10 ground water monitoring wells (MW-3A, MW-9, MW-9A, MW-10, MW-10A, MW-11, MW-12, MW-13, MW-13A, and MW-14)
 - Collected and analyzed ground water samples,
 - Measured water levels and conducted hydraulic conductivity tests to evaluate ground water occurrence and movement, and
 - Surveyed monitoring wells.

- Atlanta Environmental Management - Beginning 1998
 - Installed eight borings by using direct push technology (DPT),
 - Collected numerous soil and ground water samples from DPT borings,
 - Collected ground water samples from existing monitoring wells, and
 - Analyzed soil and ground water samples for VOCs

- ERM - Beginning 1998
 - Installed 30 soil borings using direct push technology (DPT),
 - Sampled ground water at 17 locations both on and off-Site using DPT methods,
 - Installed ground water monitoring wells and
 - Conducted ground water elevation monitoring.

The results of these efforts were included in the 1998 – 2000 CSR and CSR Addenda.

3.2 ***INVESTIGATION PERFORMED DURING CORRECTIVE ACTION (2001-2010)***

A Corrective Action Plan (CAP) was prepared and submitted to the EPD on June 13, 2001 and approved on June 28, 2002. A brief CAP Addendum was submitted on April 19, 2004 and approved by the EPD on June 18, 2004. A CAP Addendum was also submitted to EPD in 2009. EPD did not officially respond to this addendum, because the Site entered the VRP prior to the CAP Addendum review by the EPD.

3.2.1 ***Soil Sampling to Monitor Corrective Action Progress***

Soil sampling was performed during the construction of the remediation system in 2003 and then annually thereafter as a provision of the CAP approval. During this time soils from both inside and outside the building were sampled and analyzed for VOCs. Since these locations were used to assess progress in VOC remediation, many locations were re-sampled on an annual basis. Since soil borings cannot technically be collected from the exact location on multiple locations, each year's data was collected from within two feet of a permanent identifying marker. Details on sampling methods and laboratory reports were included with reports submitted to the EPD between 2003 and 2010. Results of final soil samples from each location are included in Table 1.

3.2.2 ***Ground Water Sampling to Monitor Corrective Action***

Each Annual Report included ground water monitoring data from the well network that was established as of 2002. The Annual Reports also included copies of the field parameter measurements for the sampling events that were performed using low flow sampling methods.

3.3 ***INVESTIGATION PERFORMED SINCE THE 2010 VRP SUBMITTAL TO THE EPD (2010-2011)***

3.3.1 ***Soil Investigation***

In order to fully delineate the contaminants of concern in soil to the west of the source areas, three additional boring locations were installed on the western CCR property boundary (SB-A, SB-B, and SB-C). Sampling depths were selected to provide information to fill in data gaps needed to complete delineation. The boring logs and laboratory reports from this soil investigation are provided [Appendix H](#). Data are summarized in Table 1 and shown on the soil delineation figures. These borings provided sufficient information to complete the delineation within the CCR property and without having to access the Puja property for soil sampling.

3.3.2 ***Ground Water Investigation***

One additional monitoring well, MW-39, was installed in 2011. This well was installed in response to EPD's November 15, 2010 correspondence. This well was screened in the most likely depth to find regulated substances based on the results for tetrachloroethene at nearby wells (MW-13, MW-13A, and MW-32). EPD requested that this well be installed to better understand the southwest edge of the regulated substances in ground water. The boring log and well construction diagram are provided in [Appendix I](#). This well was successful in providing delineation in the southwest direction, as discussed in the ground water summary in Section 5 of this report.

The figures referenced in this section provide a visual representation of the soil investigations that have been performed in a step-wise approach over the past two decades. In order to convey the results of multiple years of data collection, the soils sample locations on the following set of figures are coded with a red symbol and text if they exceed the delineation concentrations:

- Figure 5 - Soil Delineation Map: Tetrachloroethene in Soil (1990-2010)
- Figure 6 - Soil Delineation Map: Trichloroethene in Soil (1990-2010)
- Figure 7 - Soil Delineation Map: 1,1-Dichloroethene in Soil (1990-2010)
- Figure 8 - Soil Delineation Map: Cis-1,2-Dichloroethene in Soil (1990-2010)
- Figure 9 - Soil Delineation Map: Trans-1,2-Dichloroethene in Soil (1990-2010)
- Figure 10 - Soil Delineation Map: Vinyl Chloride in Soil (1990-2010)
- Figure 11 - Soil Delineation Map: 1,4-Dioxane in Soil (1990-2010)

A soil delineation boundary is shown on these figures in order to show that delineation in all directions has been achieved and that only four tax parcels had to be investigated in order to find those boundaries (three DISI parcels and one parcel belonging to CCR).

This section provides a discussion of (1) the general approach used to evaluate ground water contamination, (2) the analytical parameters selected and rationale for selection, (3) sampling locations, (4) sampling and analytical procedures, (5) statistical procedures used to evaluate data, (6) procedures used to establish background concentrations, and (7) the results of the assessment activities as required by Section 391-3-19-.06(3)(b)(2) of the Rules. Ground water investigations were completed by ERM between 1998 and 2010, which includes monitoring prior to and during remediation activities. During this work, the following tasks were completed:

- Geologic logs, construction records, and historical ground water elevation data were reviewed to determine/clarify the direction of ground water movement at the facility and surrounding properties.
- Ground water elevation monitoring was conducted at selected wells to determine/clarify the direction of ground water movement.
- Ground water monitoring wells were installed to monitor ground water quality and elevations in the saprolite aquifer. The locations of these wells are included on [Figure 12](#).

AREAS INVESTIGATED

The ground water investigation network was setup up prior to the 2003 remediation construction effort. These wells were monitored quarterly for two years, and most wells have been monitored annually throughout the seven year ground water remediation period. The well construction details have been submitted with previous CSR/CAP documents, and a summary of monitoring well construction information is provided in Table 2.

In addition to the monitoring well network used throughout remediation, one additional well was installed in 2011. This well, MW-39, was successful in providing delineation in the southwest direction, since the

analytical results were below detection limits. The analytical data report is provided in [Appendix J](#).

5.2 ***GENERAL APPROACH***

The general approach to ground water monitoring has been annual monitoring for the purpose of monitoring the plume size and plume stability, and remediation progress. In addition, some monitoring wells, air sparge wells, injection wells, and passive soil vapor extraction wells were sampled intermittently for the sake of monitoring remediation progress in specific areas of ground water remediation activity. Results of the ground water monitoring activities have been reported to the EPD on an annual basis in the form of Annual Progress Reports. These data were also used over the course of the seven-year remediation period to adapt remediation systems to address the higher concentration areas of the ground water plume.

5.3 ***ANALYTICAL PARAMETERS SELECTED AND RATIONALE FOR SELECTION***

The ground water quality data indicate that PCE and its associated degradation products are the predominant VOCs present in the saprolite aquifer at the facility and neighboring properties.

5.4 ***METHODS USED TO CHARACTERIZE GEOLOGY AND HYDROGEOLOGY***

5.4.1 ***Subsurface Geology***

Hollow-stem-auger drilling, rock coring, and DPT methods were employed during the ground water investigations. Table 2 presents a summary of monitoring well construction details. Boring logs for well installations have been submitted to the EPD throughout the investigation and remediation process. According to boring logs prepared during investigation over the past 24 years, the facility is underlain by saprolite of varying thickness, then hard granite gneiss and a mica schist.

5.4.2 ***Ground Water Gradients, Flow Rates, and Flow Direction***

Ground water gradients and flow directions at the facility were determined from potentiometric surface maps, such as the one created with the October 2010 water level monitoring data ([Figure 13](#)). The water level measurements and potentiometric surface calculations are shown in

[Table 3](#). The general direction of ground water flow is to the east, with a small component of flow to the northeast and to the north.

5.4.3 *Hydraulic Conductivity And Other Hydrogeologic Characteristics*

The general direction of ground water flow is to the east/slight northeast, at an estimated rate of 39 to 67 feet per year. As documented in the 2001 CAP, horizontal hydraulic gradients for the facility and nearby properties estimated from the water table contours range from 0.002 to 0.008. Based on these data and an assumed porosity of 0.2 and gradient of 0.005, the ground water flow at the site is estimated to be in the range of 39 to 67 feet per year.

5.5 *GROUND WATER SAMPLING LOCATIONS AND DEPTHS*

Ground water sampling locations are shown on [Figure 12](#), and the well construction details for the monitoring wells are provided in [Table 2](#).

5.5.1 *Saprolite Aquifer Monitoring Well Installation & Construction Methods*

Hollow-stem-auger drilling methods were utilized to advance boreholes for the monitoring wells. During the drilling, soil samples were collected and logged. Subsequent to completing a borehole to the desired depth, the well casing and screen were placed inside the hollow-stem-augers. The casing and screen are 2-inch diameter, schedule 40 PVC having threaded joints. The well screen length varies as described in [Table 2](#).

Subsequent to placing the well screen and casing inside the hollow-stem-augers, a filter pack of washed silica sand was placed in the well annulus from the bottom of the borehole to approximately 2-to-4 feet above the top of the screen. The hollow-stem-augers were slowly withdrawn from the borehole as the sand was placed. A layer of bentonite pellets was placed on top of the sand pack. The remainder of the annular space was filled to ground surface with a cement-bentonite grout mixture. Each well was completed at the ground surface by installing either a flush-mount, bolt-down cover or a stand-up protective metal casing. A concrete pad was poured around each well and the each well's cap was equipped with a lock.

5.5.2 *Bedrock Aquifer Well Installation And Construction Methods*

Hollow-stem-auger drilling methods were used to advance a borehole to the point of auger refusal, approximately 82 feet below grade. At this depth, temporary steel casing was set and rock coring activities were

initiated using a nominal 4-inch diameter core barrel. Initially, 10 feet of rock were cored to ensure that competent bedrock had been encountered. At this point, rock-coring activities were stopped and the borehole was reamed to nominal diameter of 10 inches to an approximate depth of 92 feet below grade. Six-inch diameter, schedule 40 PVC casing was then set in the borehole and grouted into place. The annular space around the casing was filled with a 95 percent cement-5 percent bentonite grout. The grout was placed using the tremie method and allowed to cure for 24 hours.

Once the grout had cured, the PVC casing was flushed with potable water. Rock coring activities were resumed. A qualified geologist examined each rock core. In addition to describing the rock type, the cores were examined for evidence of secondary porosity, such as fractures or structural features and oxidation zones.

The bedrock well at the facility was completed as an open hole well to a depth of 132 feet below grade. As such, no additional casing or screen were installed. The well was completed by installing a bolt-down, flush-mount cover and a concrete pad at the ground surface.

5.5.3 *Well Development Procedures*

The saprolite aquifer wells were developed using bailing and pumping methods. In the case of bailing, disposable polyethylene bailers equipped with new nylon rope were used. Other wells were developed by pneumatic pump. During the development, the temperature, specific conductivity, pH, and turbidity of the purged water was monitored.

The bedrock well was developed by over pumping with a 2-inch diameter electric submersible pump. During development, the temperature, specific conductance, pH, and turbidity of the development water were monitored.

5.6 *GROUND WATER SAMPLING PROCEDURES*

5.6.1 *Monitoring Well Ground Water Elevations And Measurements*

Before ground water samples were collected, the depth to ground water and total depth were measured for each monitoring well. These measurements were collected using the following procedure.

1. The lock and locking cap covering the well were removed.

2. Sufficient time was allowed for the water level in each well to stabilize.
3. A clean electronic water level probe was lowered to the water surface.
4. The distance from the reference point to the water surface was recorded to the nearest 0.01 foot.
5. The probe was lowered to the bottom of the monitoring well.
6. The distance from the reference point to the bottom of the well was recorded to the nearest 0.01 foot.
7. The probe was removed from the well and cleaned.

Results from the most recent potentiometric surface mapping event, October 2010, are provided in [Table 3](#) and [Figure 13](#).

5.6.2 *Sample Handling and Preservation Techniques*

5.6.2.1 *Sample Identification*

Ground water samples were identified by the monitoring location from which they were collected. For example, the ground water sample collected from MW-20 was identified as MW-20.

5.6.2.2 *Sample Preservation and Holding Times*

The samples were acidified in the field using hydrochloric acid to a pH of less than 2. Subsequent to being collected, they were placed in ice-filled coolers. They were delivered to a NELAC accredited laboratory by ERM personnel or by courier. The samples were analyzed within 14 days of their collection.

5.6.2.3 *Equipment Decontamination Procedures*

In between each sampling interval and location where a re-useable discrete interval ground water sampler was used, the units were thoroughly decontaminated.

5.6.2.4 *Sample Chain of Custody Procedures*

The field team member who collected the samples retained sample custody in the field. Chain of custody forms were completed by this individual prior to surrendering possession of the samples. The chain of custody records were maintained to document the delivery of the ground water samples to the subcontracted laboratory.

5.6.2.5 *Trip Blanks*

Trip blanks were typically included with VOC sample deliveries to the laboratory.

5.7 *ANALYTICAL PROCEDURES*

5.7.1 *Field Analytical Techniques*

Temperature, specific conductance, pH, and turbidity were measured in the field as the ground water samples were collected. These measurements for the most recent annual ground water sampling event (October 2010) are included in [Appendix K](#).

5.7.2 *Laboratory Analytical Techniques*

The ground water samples and associated trip blanks were analyzed for VOCs by method 8260B. Analyses were conducted by ASI and AES laboratories, which are both located in the metro Atlanta area.

5.8 *METHODS USED TO DETERMINE BACKGROUND GROUND WATER QUALITY*

The VOCs monitored at the facility typically do not occur naturally in ground water. Therefore, no efforts to establish background concentrations of these constituents in the ground water at the facility were undertaken.

5.9 *RESULTS OF GROUND WATER EVALUATION*

5.9.1 *PHYSIOGRAPHY AND DRAINAGE*

The facility is located in the Greenville Slope District of the Piedmont Physiographic Province (Clark and Zia, 1976). This area is characterized by rolling topography that decreases gradually in elevation from 1,000 feet in the northeast to 600 feet in the southwest. Relief varies from 150 to 200

feet in the east to 100 to 150 feet in the west. All streams in this district eventually flow to the Gulf of Mexico.

Ground surface elevations at the facility range from approximately 1,020 feet to 1,000 feet. The ground surface slopes generally from southwest to northeast, in the direction of an unnamed tributary of the Flint River. Ditches at the facility convey surface water drainage generally to the north.

5.9.2 *Geology and Hydrogeology*

5.9.2.1 *Regional*

Soils in the Piedmont Physiographic Province are typically silt and clay-rich materials that formed from the in-place weathering of the underlying crystalline bedrock. The specific character of soils in the Piedmont is dependent on the nature of the rock from which they weathered. The percentage of sand-sized particles comprising the soils, however, typically tends to increase with depth. As such, while silt and clay-sized materials are predominant at shallow depths, sand-sized materials are predominant at greater depths. Because of its greater permeability, the deeper, more coarse-grained zone can serve as a preferential pathway for contaminant migration.

Regionally, the area near the facility is underlain by a complex of late Precambrian to early Paleozoic rocks referred to as the Atlanta Group (McConnell and Abrams, 1984). More specifically, the facility is underlain by the Tar Creek Member of the Clarkston Formation. The Clarkston Formation is composed of sillimanite-garnet-quartz-plagioclase-biotite-muscovite schist interlayered with hornblende-plagioclase amphibolite.

The occurrence and movement of ground water in the area of the facility is within two separate but interconnected water-bearing zones. These include a shallow water-bearing zone located within the soils, and a deeper water-bearing zone located in the bedrock. The shallow water-bearing zone is referred to as the saprolite aquifer. The deeper water-bearing zone is referred to as the bedrock aquifer.

Ground water in the saprolite aquifer occurs in the interstitial pore spaces between individual grains comprising the soil and is typically under water table (i.e., unconfined) conditions. The direction of ground water movement in the saprolite aquifer typically approximates the land surface topography, with the direction of movement being from upland areas to nearby drainage features (i.e., creeks, rivers, etc.). As a result, ground

water flow systems within the saprolite aquifer typically consist of numerous small ground water basins corresponding to local drainage patterns (Cressler, et. al., 1983). Based on a review of ground surface topography, the direction of ground water movement in the saprolite aquifer at the facility is expected to be towards the northeast. The unnamed tributary of the Flint River is located approximately 1,500 feet northeast of the facility is expected to be the ground water discharge point for the saprolite aquifer.

Ground water in the bedrock aquifer is located in the fractures and other structural features of the rock. Ground water movement within this zone is controlled by the distribution and degree of interconnection of rock discontinuities. Consequently, the direction of ground water movement within the bedrock is more difficult to predict. Discharge points for ground water in the bedrock aquifer, however, will be associated with the major streams in the area. These include the Flint River located approximately 3.2 miles east of the facility. Recharge of the bedrock aquifer typically occurs as the result of the downward movement of ground water through the overlying soils.

5.9.2.2 *Local*

Geologic logs for wells and soil borings installed during previous investigations at the facility were submitted with previous CSR and CAP documents. A geologic cross-section along the ground water flow path was prepared. The location of the cross section is along the ground water flow path, as shown in [Figures 12 and 13](#).

Bedrock has been observed at the facility at depths ranging from 27 feet below grade at MW-4 near the southern edge of the DISI facility, to 82 feet below grade at well MW-18D located near the center of the facility. Rock underlying the facility consists of pegmatite, biotite-muscovite schist and biotite - gneiss with garnet. Well MW-18D was installed into the bedrock aquifer by ERM. It is completed to a depth of 132 feet below grade. That portion of the well from 92 to 132 feet is an open hole within the bedrock. Fractures are present throughout this open hole interval. They are more concentrated, however, from 92 to 97 feet below grade. The ground water quality sample collected from MW-18D is representative of the full open hole interval of the well.

Ground water elevation monitoring conducted by ERM indicates that the water table at the facility is located at depths ranging from approximately 8 to 25 feet below grade. Locations associated with the greatest depths to ground water are associated with topographically higher areas in the

southern portion of the facility. In most other areas of the facility, the water table is located less than 10 feet below grade.

5.10 *GROUND WATER QUALITY*

A summary of the ground water samples results is presented in Table 4, and the full laboratory data reports for this event are provided in [Appendix L](#). The sampling locations associated with these samples are shown on [Figure 12](#). The following series of ground water figures shows the status of the compounds historically detected at this site, as well as the degradation products of the released compounds.

- Figure 14 - Tetrachloroethene in Ground Water
- Figure 15 - Trichloroethene in Ground Water
- Figure 16 - 1,1-dichloroethene in Ground Water
- Figure 17 - Cis-1,2-dichloroethene in Ground Water
- Figure 18 - Trans-1,2-dichloroethene in Ground Water
- Figure 19 - Vinyl Chloride in Ground Water
- Figure 20 - 1,4-Dioxane in Ground Water
- Figure 21 - Cross Section I-I' with October 2010 Ground Water Data

As expected, the highest concentrations of these VOCs are present in proximity to the location of the former sewer tank and former outdoor drum storage area, which were located to the northwest of the DISI building.

SUMMARY OF CORRECTIVE ACTION ACTIVITIES

A Corrective Action Plan (CAP) was prepared and submitted to the EPD on June 13, 2001 and approved on June 28, 2002. A brief CAP Addendum was submitted on April 19, 2004 and approved by the EPD on June 18, 2004. A CAP Addendum was also submitted to EPD in 2009. EPD did not officially respond to this addendum, because the Site entered the VRP prior to the CAP Addendum review by the EPD.

Corrective Action commenced at this facility when a soil vapor extraction (SVE) system was installed in the source area to treat soil under the building footprint. Ground water remediation in the source area on the DISI property began on May 15, 2003 when an air sparging (AS) system and a chemical oxidation system went on line. In September 2004, a system of injection wells was installed to deliver chemicals for enhancing natural attenuation of VOCs. This system of wells was installed in the dilute, downgradient area of the ground water plume.

6.1

SOIL CORRECTIVE ACTION VIA SOIL VAPOR EXTRACTION ('99-'09)

Soil remediation was performed using soil vapor extraction (SVE) from 1999 - 2009. The active SVE system included a network of 21 soil vapor extraction wells that were installed in the unsaturated zone under the warehouse floor in 1999 and seven new active SVE wells that were installed in 2008 to address the soil in areas beneath the warehouse and to the northwest of the warehouse.

Soil sampling performed between 2003 and 2007 showed recalcitrant areas that were not being treated to low enough levels using the SVE system. Soil sampling was conducted in May 2009 for analysis of VOCs in order to better delineate the effectiveness of operations at reducing the soil areas that remain above RRS. A majority of the soil samples were below RRS, but a few recalcitrant areas were located. These results have guided the recommendation for selective soil excavation that was proposed in the 2009 Corrective Action Plan Addendum.

The SVE system was removed prior to the 2010 soil excavation activities, since the soil excavation was designed to bring soils into compliance, thus negating the need for further soil vapor extraction.

6.2 *SOIL EXCAVATION (2010)*

Excavation design was presented in the April 2010 Voluntary Remediation Plan submitted to the EPD. Excavation was designed to remove the areas that exceeded the applicable RRS, based on additional sampling events performed in 2009 and 2010. The soil excavation design figure is provided in [Figure 22](#). Soil excavation was completed and soil confirmation sampling results show that further remediation is not needed to meet the Type 3/4 RRS, as discussed in detail in Section 7 of this report.

6.3 *GROUND WATER CORRECTIVE ACTION (2003 - 2010)*

Ground water corrective action has been performed, as described in the Annual Reports on Corrective Action Progress that have been submitted to the EPD in 2004, 2005, 2006, 2007, 2008, and 2009. A combination of remedial technologies was used to address concentrations of tetrachloroethene and its degradation products that exceeded the risk reduction standards (RRS).

An air sparge (AS) system, passive soil vapor extraction system (SVE), and in-situ chemical oxidation system (ISCO) began operations on May 15, 2003. These systems are located within the DISI property boundary. The AS and ISCO systems were operational and discussed in annual reports to the EPD between 2003 and 2009.

An enhanced natural attenuation (a.k.a. enhanced passive remediation) system was installed in September 2004 to address VOC concentrations in the downgradient, dilute portions of the ground water plume beyond the DISI property boundary. This system of injection wells is located on the CCR property. The location, construction, and performance were monitored and assessed in reports submitted to the EPD between 2004 and 2009.

7.0 *EVALUATION OF POST-REMEDATION SOIL CONDITIONS*

7.1 *PURPOSE OF SOIL EXCAVATION AND CONFIRMATION SAMPLING*

Following the removal of soils as shown in the design drawing ([Figure 22](#)) soil samples were collected from the base and sidewalls of each excavation to confirm that:

- soil exceeding RRS for PCE and its degradation products was removed and
- compliance with RRS was achieved.

Detailed information about the sampling methods and results were presented in the December 2010 Soil Removal Report, as well as copies of the laboratory data reports and soil disposal manifests. Soil laboratory analytical results are summarized in [Table 1](#).

7.2 *SOIL RISK REDUCTION STANDARDS*

The soil cleanup standards that will be used for this site will be the risk RRS currently used in the HSRA program. The RRS that are guiding corrective action for soils were approved in EPD correspondence dated October 12, 2005. For the compounds of interest at this site the surface and subsurface standards were calculated to be equal, so only a single soil RRS is listed in [Appendix D](#).

7.3 *SAMPLING AND ANALYTICAL PROCEDURES*

7.3.1 *Sampling Methods*

Soil samples were collected from the base and sidewalls of each excavation using a stainless steel sampling spoon. Samples collected below a depth of 4-feet bgs were collected from the excavator bucket because entering excavations of depths greater than 4-feet requires that a confined space entry permit be prepared per ERM's health and safety policies. All sampling equipment was decontaminated prior to use at different locations in accordance with specifications outlined in the FSAP.

7.3.2 *Sample Handling and Preservation Techniques*

Following collection, soil samples were labeled with a unique sample I.D., date and time of analyses, sampler's initials and analyses requested. Samples were then placed into a cooler and maintained in a secure location pending transport to the analytical laboratory.

7.3.3 *Chain-Of-Custody Procedures*

Chain-of-Custody documentation was employed throughout the sampling event. Upon completion of sample collection, the sample I.D., date and time of collection, sampler's initials, analyses requested and turnaround time requested were logged on a chain-of-custody form. The form was kept with the sample team leader until the samples were relinquished to the laboratory. Upon relinquishment, the sample team leader and receiver of the samples signed the chain-of-custody form and the sample team leader kept one copy of the form.

7.3.4 *Laboratory Analytical Techniques*

Excavation confirmation samples were analyzed via EPA Method 8260 on a 24-hour turnaround time basis. Analytical results are summarized in [Table 1](#) and analytical reports were provided with the December 2010 Soil Removal Report.

7.4 **COMPLIANCE WITH RISK REDUCTION STANDARDS**

Final confirmation sample locations are presented in [Figures 23 to 29](#). Confirmation samples that did not pass RRS criterion are not shown on the figures because the soil associated with failed samples has been excavated. However, these samples are included in the soil data summary table. Confirmation sampling for each area is described below.

A series of maps was created to show the locations and analytical data from the soil samples collected from the base and sidewalls of each excavation area. The excavation confirmation sample locations and results are shown in plan view on [Figures 23–29](#). [Figures 23–29](#) show the analytical data in plan view for tetrachloroethene, trichloroethene, 1,1-diochloroethene, cis-1,2-diochloroethene, trans1,2-diochloroethene, vinyl chloride, and 1,4-dioxane, respectively.

A cross-section location map is shown on [Figure 30](#), and vertical cross-sections of the excavation areas and sampling results are shown on [Figures 31-37](#). [Figures 31-37](#) show the analytical data in cross-section view for tetrachloroethene, trichloroethene, 1,1-diochloroethene, cis-1,2-diochloroethene, trans-1,2-diochloroethene, vinyl chloride, and 1,4-dioxane, respectively.

The excavation areas were described in full detail in the December 2010 Soil Removal Report, and they are summarized below:

- Soil in Area A was excavated to a depth of 9 feet below the concrete surface, which extended approximately 1 foot into the ground water table. The planned excavation area was expanded to the south and east based on confirmation sampling results. The final surface area of this excavation was 21 ft x 25 ft.
- Soil in Area B was excavated to a depth of 4 feet below the grassy surface north of the building. The planned excavation area was expanded based on confirmation sampling results as follows: 2 feet to the north and 2 feet to the east. The final surface area of this excavation was 17 ft x 22 ft.
- Soil in Area C was excavated to a depth of 6 feet below the grassy surface north of the building. The planned excavation area was expanded based on confirmation sampling results as follows: 2 feet to the north and 2 feet to the east. The final surface area of this excavation was 7 ft x 12 ft.
- Soil in Area D was excavated to a depth of 2 feet below the concrete floor of the warehouse building. The planned excavation area was expanded based on confirmation sampling results as follows: 10 feet to the west, 4 feet to the south, and 1 foot to the east. The final surface area of this area is irregular, but is 21 ft x 14 ft at its largest dimensions, as shown in [Figure 22](#).
- Soil in Area E was excavated to a depth of 4 feet below the concrete warehouse floor. Area E was split into three smaller sections for the purpose of collecting confirmation samples. Each of the three section began with a surface area of 25' by 35'. The three sections of Area E are:
 - Area EN, which is the northern third of Area E. Soil in Area EN was excavated to a depth of 4 feet below the concrete

floor of the warehouse building. The final surface area of this excavation was the same as the design surface area, 25 ft x 35 ft.

- Area EM, which is the middle third of Area E. Soil in Area EM was excavated to a depth of 4 feet below the concrete floor of the warehouse building. The planned excavation area was expanded based on confirmation sampling results by 1 foot in depth and also by 4 feet on the east wall. The final surface area of this excavation was 29 ft x 35 ft x five feet deep., and
- Area ES, which is the southern third of Area E. Soil in Area ES was excavated to a depth of 4 feet below the concrete floor of the warehouse building. The planned excavation area was expanded based on confirmation sampling results as follows: 8 feet to the west, 6 feet to the south, and 3 feet to the east. The final surface area of this area is irregular, but is 46 ft x 31 ft at its largest dimensions, as shown in [Figure 22](#).
- Soil in Area F was excavated to depth 6 feet below the concrete floor of the warehouse. The excavation area is shown in plan view on [Figure 22](#). Area F was a deeper excavation spot that was located within a larger, shallower excavation area (Area E). Thus, Area F was actually a 2-foot deep excavation from 4 ft bgs to 6 ft bgs. The final surface area of this excavation was the same as the design surface area, 10 ft x 20 ft.
- Area G was excavated to a depth of 4 feet below the concrete floor of the warehouse. The excavation area is shown in plan view on [Figure 22](#). The final surface area of this excavation was the same as the design surface area, 10 ft x 10 ft.

Excavation confirmation samples from the sidewalls and the base achieved results below RRS, as shown in [Figures 23 – 37](#) and in the analytical data summary provided in [Table 1](#).

8.0 *RISK REDUCTION STANDARDS AND SITE COMPLIANCE*

This section presents a summary of the RRS compliance status for HSI Site #10127.

8.1 *SOILS*

A summary of the soil samples, including the post-excavation confirmation samples collected in June 2010, are presented in Table 1. Also included in Table 1 are the respective RRS.

Based on a review of data presented in Sections 3, 4, and 5 of this document, it is determined that the four (4) Tax Parcels in the VRP are in compliance with the applicable RRS for soils. Specifically,

- Two (2) Tax Parcels in the VRP (130036LL1463 and 130036LL1356) are in compliance with the Type 3/4 RRS.
- Two (2) Parcels in the VRP (130036LL1349 and Tax Parcel 130036LL1414) are in compliance with the Type 1/2 RRS for soil.

8.2 *GROUND WATER*

Neither corrective action nor certification of compliance for ground water is required at this site pursuant to O.C.G.A. 12-8-107(g)(2). The site was listed on the HSI as a result of a release to soil exceeding a reportable quantity but was not listed on the inventory as a result of a release to ground water exceeding a reportable quantity. A release exceeding a reportable quantity for ground water also did not exist at the time the site was enrolled in the VRP. In addition, the establishment of the soil RRS took into account the ground water protection requirements. The ground water at the site has already been monitored for in excess of five (5) years. In addition, the soil vapor sampling conducted from soils over the most concentrated portion of the ground water plume, as discussed in Section 4, did not exceed established risk levels.

9.0

RESPONSIBLE PARTIES

This section of the CSR provides, as required by Section 391-3-19-.06(3)(b)(6) of the Rules, the name, address and telephone number of any other person who may be a responsible party for the Site, and a description of the type and amount of regulated substances such party may have contributed to a release. The party responsible for the release is Dickies Industrial Services, Inc., the owner and former operator of the facility.

10.0

PUBLIC NOTICE

As required by the Georgia Rules for the Voluntary Remediation Program, a Public Notice will be published in the Fulton County Daily Report and the Atlanta Journal Constitution indicating that the public may submit comments to EPD on the VCSR within thirty (30) days. A notice of the VCSR availability for review will also be sent to Zachary Williams, Fulton County Manager and Jack P. Longino, Mayor of College Park.

In addition, a copy of the VCSR will be sent to the following adjacent and nearby property owners:

- 1) Coca Cola Refreshments USA, Inc.,
- 2) Puja Partners, LLC,
- 3) Sears Roebuck & Company, and
- 4) Blount Construction Company, Inc.

**11.0 CONTINUING ACTIONS TO MAINTAIN COMPLIANCE WITH
TYPE 3/4 RISK REDUCTION STANDARDS**

To assure continued compliance with the Type 3/4 Risk Reduction Standards for soil, the owner of the DISI property will implement a Plan to Maintain Compliance, including but not limited to submittal of an annual written report and certification to EPD. The Plan and draft Certification are attached as [Appendix M](#).

Table 1
Soil Analytical Data
Former Dickies Industrial Services, Inc.
HSI Site No. 10127
ug/kg

Name of this location on the Soil Delineation Maps	Date of Sample	Depth of Sample	Name of Organization that Collected Sample	Number of times this location has been sampled	Sample ID	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride	trans-1,2-Dichloroethene	1,4-Dioxane	1,1-Dichloroethene
						RRS = 877 ug/kg	RRS = 500 ug/kg	RRS = 18,900 ug/kg	RRS = 200 ug/kg	Not Calculated - Chemicals Not Detected Above Soil NC		
CP-SB-4	Sep-90	4-6	CDM	1 of 1	CP-BH-4-03	170	< 60	NA	NA	NA	NA	NA
CP-SB-5	Sep-90	6-8	CDM	1 of 1	CP-BH-5-04	<60	< 60	NA	NA	NA	NA	NA
CP-SB-7	Sep-90	6-8	CDM	1 of 1	CP-BH-7-04	150	< 60	NA	NA	NA	NA	NA
CP-MW-1	Oct-90	5-7	CDM	1 of 1	CP-MW1	470	310	NA	<130	<60	NA	<60
RMT-MW10-A	Aug-92	3.5-5	RMT	1 of 1	RMT-MW10A	54.8	NA	<5.0	<10.0	<5.0	NA	<5.0
	Aug-92	8.5-10	RMT		RMT-MW10A	27.7	NA	<5.0	<10.0	<5.0	NA	<5.0
	Aug-92	10-11.5	RMT		RMT-MW10A	53.2	NA	<5.0	<10.0	<5.0	NA	<5.0
RMT-MW-3A	Sep-92	3.5-5	RMT	1 of 1	RMT-MW3A	<200	<200	<200 ^A	NA	NA	NA	NA
	Sep-92	5-6.5	RMT		RMT-MW3A	<200	<200	<200 ^A	NA	NA	NA	NA
	Sep-92	6.5-8	RMT		RMT-MW3A	<200	<200	<200 ^A	NA	NA	NA	NA
RMT-SB-1	Sep-92	3.5-5	RMT	1 of 1	RMT-SB1	<200	<200	<200 ^A	NA	NA	NA	NA
	Sep-92	6.5-7.5	RMT		RMT-SB1	<200	<200	<200 ^A	NA	NA	NA	NA
RMT-SB-2	Sep-92	2-3.5	RMT	1 of 1	RMT-SB2	<200	<200	200 ^A	NA	NA	NA	NA
	Sep-92	3.5-5	RMT		RMT-SB2	<200	<200	340 ^A	NA	NA	NA	NA
	Sep-92	5-6.5	RMT		RMT-SB2	<200	<200	250 ^A	NA	NA	NA	NA
RMT-SB-4	Sep-92	5-6.5	RMT	1 of 1	RMT-SB4	8	<2.5	5.1 ^A	<1.2	NA	NA	<1.2
RMT-SB-6	Sep-92	3.5-5	RMT	1 of 1	RMT-SB6	<200	NA	490 ^A	NA	NA	NA	NA
	Sep-92	6.5-8	RMT		RMT-SB6	430	340	4800 ^A	<130	NA	NA	<130
RMT-SB-10	Sep-92	2-3.5	RMT	1 of 1	RMT-SB10	230	<200	<200 ^A	NA	NA	NA	NA
	Sep-92	3.5-5	RMT		RMT-SB10	220	<200	<200 ^A	NA	NA	NA	NA
	Sep-92	5-6.5	RMT		RMT-SB10	<200	<200	<200 ^A	NA	NA	NA	NA
RMT-SB-12	Sep-92	8.5-10	RMT	1 of 1	RMT-SB12	<2.3	<2.3	<2.3 ^A	<1.2	NA	NA	<1.2
	Sep-92	13.5-15	RMT		RMT-SB12	<200	<200	<200 ^A	NA	NA	NA	NA
	Sep-92	18.5-20	RMT		RMT-SB12	<200	<200	<200 ^A	NA	NA	NA	NA
AEM-GP2	Apr-98	1-2	AEM	1 of 1	AEM-GP-2/1-2	270	21	8.2	< 2.0	< 5.0	NA	< 5.0
	Apr-98	3-4	AEM		AEM-GP-2/3-4	400	160	110	< 10.0	< 25.0	NA	<25.0
AEM-GP5	Apr-98	1-2	AEM	1 of 1	AEM-GP-5/1-2	37	< 5.0	< 5.0	< 2.0	< 5.0	NA	< 5.0
	Apr-98	6-7	AEM		AEM-GP-5/6-7	150	< 5.0	<1 0.0	< 4.0	< 10.0	NA	<10.0
AEM-GP7	Apr-98	11-12	AEM	1 of 1	AEM-GP-7/11-12	40	< 5.0	< 5.0	< 2.0	< 5.0	NA	< 5.0
	Apr-98	16-17	AEM		AEM-GP-7/16-17	140	< 5.0	< 5.0	< 2.0	< 5.0	NA	< 5.0
	Apr-98	6-7	AEM		AEM-GP-7/6-7	44	< 5.0	7	< 2.0	< 5.0	NA	< 5.0
AEM-GP8	Apr-98	11-12	AEM	1 of 1	AEM-GP-8/11-12	220	12	17	< 2.0	< 5.0	NA	< 5.0
	Apr-98	6-7	AEM		AEM-GP-8/6-7	60	< 5.0	17	< 2.0	< 5.0	NA	< 5.0
GP-1B	Aug-99	6-8	ERM	1 of 1	ERM-GP1B-6-8	67	< 10.0	< 10.0	< 21.0	< 10.0	NA	NR
GP-1C	Aug-99	8-10	ERM	1 of 1	ERM-GP1C-8-10	37	< 8.6	< 8.6	< 17.0	< 8.6	NA	NR
GP-1D	Aug-99	0-2	ERM	1 of 1	ERM-GP-1D-0-2	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 5.0
GP-1E	Aug-99	0-2	ERM	1 of 1	ERM-GP-1E-0-2	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 5.0
GP-2D	Aug-99	0-2	ERM	1 of 1	ERM-GP-2D-0-2	140	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 5.0
GP-2E	Aug-99	4-6	ERM	1 of 1	ERM-GP-2E-4-6	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 5.0
GP-3B	Aug-99	4-6	ERM	1 of 1	ERM-GP3B-4-6	110	28	< 11.0	< 22.0	< 11.0	NA	NR
GP-3C	Aug-99	6-8	ERM	1 of 1	ERM-GP3C-6-8	46	16	< 6.4	< 13.0	< 6.4	NA	NR
GP-3D	Aug-99	4-6	ERM	1 of 1	ERM-GP-3D-4-6	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 5.0
GP-3E	Aug-99	6-8	ERM	1 of 1	ERM-GP-3E-6-8	5.2	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 5.0
GP-4B	Aug-99	4-6	ERM	1 of 1	ERM-GP4B-4-6	< 6.8	< 6.8	< 6.8	< 14.0	< 6.8	NA	NR
GP-4C	Aug-99	6-8	ERM	1 of 1	ERM-GP4C-6-8	49	< 14.0	< 14.0	< 28.0	< 14.0	NA	NR
ERM-SB1	Aug-99	4	ERM	1 of 1	ERMSB-1-4	< 6.0	< 6.8	< 6.8	< 14.0	< 6.8	NA	< 6.8
ERM-SB2	Aug-99	4	ERM	1 of 1	ERMSB-2-4	< 6.5	< 6.3	< 6.3	< 13.0	< 6.3	NA	< 6.3

Table 1
Soil Analytical Data
Former Dickies Industrial Services, Inc.
HSI Site No. 10127
ug/kg

Name of this location on the Soil Delineation Maps	Date of Sample	Depth of Sample	Name of Organization that Collected Sample	Number of times this location has been sampled	Sample ID	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride	trans-1,2-Dichloroethene	1,4-Dioxane	1,1-Dichloroethene
						RRS = 877 ug/kg	RRS = 500 ug/kg	RRS = 18,900 ug/kg	RRS = 200 ug/kg	Not Calculated - Chemicals Not Detected Above Soil NC		
ERM-SB3	Aug-99	4	ERM	1 of 1	ERMSB-3-4	27	< 6.3	< 6.3	< 13.0	< 6.3	NA	< 6.3
ERM-SB4	Aug-99	4	ERM	1 of 1	ERMSB-4-4	120	< 5.8	< 5.8	< 12.0	< 5.8	NA	< 5.8
ERM-SB5	Aug-99	4	ERM	1 of 1	ERMSB-5-4	< 5.7	< 5.6	< 5.6	< 11.0	< 5.6	NA	< 5.6
ERM-SB6	Aug-99	4	ERM	1 of 1	ERMSB-6-4	< 6.1	< 5.7	< 5.7	< 11.0	< 5.7	NA	< 5.7
ERM-SB7	Aug-99	8	ERM	1 of 1	ERMSB-7-8	< 6.8	< 6.5	< 6.5	< 13.0	< 6.5	NA	< 6.5
ERM-SB8	Aug-99	4	ERM	1 of 1	ERMSB-8-4	< 6.3	< 6.1	< 6.1	< 12.0	< 6.1	NA	< 6.1
ERM-SB9	Aug-99	8	ERM	1 of 1	ERMSB-9-8	< 6.1	< 6.0	< 6.0	< 12.0	< 6.0	NA	< 6.0
ERM-SB10	Aug-99	8	ERM	1 of 1	ERMSB-10-8	< 6.4	< 6.3	< 6.3	< 13.0	< 6.3	NA	< 6.3
ERM-SB11	Aug-99	8	ERM	1 of 1	ERMSB-11-8	< 6.7	< 7.1	< 7.1	< 14.0	< 7.1	NA	< 7.1
ERM-SB12	Aug-99	8	ERM	1 of 1	ERMSB-12-8	100	12	120	< 13.0	< 6.3	NA	< 6.3
ERM-SB13	Aug-99	4	ERM	1 of 1	ERMSB-13-4	< 5.9	< 5.6	< 5.6	< 11.0	< 5.6	NA	< 5.6
ERM-SB14	Aug-99	8	ERM	1 of 1	ERMSB-14-8	< 6.0	< 5.9	< 5.9	< 12.0	< 5.9	NA	< 5.9
ERM-SB15	Aug-99	4	ERM	1 of 1	ERMSB-15-4	< 6.3	< 6.1	< 6.1	< 12.0	< 6.1	NA	< 6.1
ERM-SB16	Aug-99	4	ERM	1 of 1	ERMSB-16-4	15	< 6.0	< 6.0	< 12.0	< 6.0	NA	< 6.0
ERM-SB17	Aug-99	8	ERM	1 of 1	ERMSB-17-8	41	< 6.3	< 6.3	< 13.0	< 6.3	NA	< 6.3
ERM-SB18	Aug-99	8	ERM	1 of 1	ERMSB-18-8	< 7.1	< 6.4	< 6.4	< 13.0	< 6.4	NA	< 6.4
ERM-SB19	Aug-99	4	ERM	1 of 1	ERMSB-19-4	< 6.1	< 6.0	< 6.0	< 12.0	< 6.0	NA	< 6.0
ERM-SB20	Aug-99	8	ERM	1 of 1	ERMSB-20-8	50	8.9	20	< 13.0	< 6.7	NA	< 6.7
ERM-SB21	Aug-99	4	ERM	1 of 1	ERMSB-21-4	< 5.7	< 5.9	< 5.9	< 12.0	< 5.9	NA	< 5.9
ERM-SB22	Aug-99	8	ERM	1 of 1	ERMSB-22-8	71	7	34	< 14.0	< 6.8	NA	< 6.8
ERM-SB23	Aug-99	8	ERM	1 of 1	ERMSB-23-8	60	11	90	< 14.0	< 7.2	NA	< 7.2
ERM-SB24	Aug-99	4	ERM	1 of 1	ERMSB-24-4	< 5.9	< 5.7	< 5.7	< 11.0	< 5.7	NA	< 5.7
ERM-SB25A	Aug-99	4	ERM	1 of 1	ERMSB-25A-4	< 5.9	< 5.7	< 5.7	< 11.0	< 5.7	NA	< 5.7
ERM-SB32	Aug-99	4	ERM	1 of 1	ERMSB-32-4	< 6.0	< 5.9	< 5.9	< 12.0	< 5.9	NA	< 5.9
ERM-SB33	Aug-99	4	ERM	1 of 1	ERMSB-33-4	8.2	< 5.7	< 5.7	< 11.0	< 5.7	NA	< 5.7
ERM-SB34	Aug-99	4	ERM	1 of 1	ERMSB-34-4	< 5.9	< 5.2	< 5.2	< 10.0	< 5.2	NA	< 5.2
ERM-SB35	Aug-99	8	ERM	1 of 1	ERMSB-35-8	< 6.7	< 6.0	< 6.0	< 12.0	< 6.0	NA	< 6.0
ERM-SB36	Aug-99	8	ERM	1 of 1	ERMSB-36-8	< 25.0	< 6.7	< 6.7	< 13.0	< 6.7	NA	< 6.7
ERM-SB40	Aug-99	4	ERM	1 of 1	ERMSB-40-4	< 5.0	< 5.0	< 5.0	< 10.0	< 5.0	NA	< 5.0
ERM-SB39	Aug-99	4	ERM	1 of 1	ERMSB-39-4	< 5.0	< 5.0	< 5.0	< 10.0	< 5.0	NA	< 5.0
ERM - SVE PILOT TRENCH WEST	Aug-99	4	ERM	1 of 1	SVE PILOT TRENCH WEST	370	75	270	< 5.0	< 5.0	NA	< 5.0
GP-5F	Apr-01	2-4'	ERM	1 of 1	GP-5F	6.	12.	53.	< 5.	< 5.	NA	< 5.
	Apr-01	6-8'	ERM		GP-5F	< 5.	< 5.	< 5.	< 5.	< 5.	NA	< 5.
	Apr-01	10-12'	ERM		GP-5F	< 5.	< 5.	< 5.	< 5.	< 5.	NA	< 5.
GP-AS-41	Jan-03	2-4	ERM	1 of 1	AS-41	280.	< 5.8	< 5.8	< 12.	< 5.8	NA	< 5.8
GP-5D	Jan-03	2-4'	ERM	2 of 2	GP-5D (and GP-5DR)	280,000.	62.	< 5.7	< 11.	< 5.7	NA	< 5.7
CP-SB-6	Jan-03	6-8	ERM	2 of 2	CP-SB6	510.	400.	550.	43.	< 6.3	NA	< 6.3
RMT-SB-3	Jan-03	6.5-8	ERM	2 of 2	RMT-SB3	430.	100.	< 6.3	77.	< 6.3	NA	< 6.3
RMT-SB-5	Jan-03	6.5-8	ERM	2 of 2	RMT-SB5	210.	31.	49.	< 13.	< 6.5	NA	< 6.5
RMT-SB-7	Jan-03	6.5-8	ERM	2 of 2	RMT-SB7	110.	23.	140.	< 13.	< 6.4	NA	< 6.4
RMT-SB-8	Jan-03	3.5-5	ERM	2 of 2	RMT-SB8	< 5.9	< 5.9	< 5.9	< 12.	< 5.9	NA	< 5.9
RMT-SB-9	Jan-03	2.5-3	ERM	2 of 2	RMT-SB9	130.	< 5.6	< 5.6	< 11.	< 5.6	NA	< 5.6
RMT-SB-11	Jan-03	3.5-5	ERM	2 of 2	RMT-SB11	57.	< 5.8	< 5.8	< 12.	< 5.8	NA	< 5.8
AEM-GP1	Jan-03	3-4	ERM	2 of 2	AEM-GP1	6.9	< 5.5	< 5.5	< 11.	< 5.5	NA	< 5.5
GP-4A	Apr-05	2-4'	ERM	3 of 3	GP-4A	10.	< 1.8	< 1.8	< 1.8	< 1.8	NA	< 1.8
	Apr-05	4-6'	ERM		GP-4A	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	NA	< 1.9
	Apr-05	6-8'	ERM		GP-4A	< 2.3	< 2.3	< 2.3	< 2.3	< 2.3	NA	< 2.3
	Apr-05	8-10'	ERM		GP-4A	3.	< 2.	< 2.	< 2.	< 2.	NA	< 2.

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						RRS = 877 ug/kg	RRS = 500 ug/kg	RRS = 18,900 ug/kg	RRS = 200 ug/kg	Not Calculated - Chemicals Not Detected Above Soil NC		
GP-AS-42	Apr-06	2-4'	ERM	1 of 1	AS-42	< 28.	< 28.	< 28.	< 28.	< 28.	NA	< 28.
	Apr-06	4-6'	ERM		AS-42	< 31.	< 31.	< 31.	< 31.	< 31.	NA	< 31.
	Apr-06	6-8'	ERM		AS-42	< 31.	< 31.	< 31.	< 31.	< 31.	NA	< 31.
	Apr-06	8-10'	ERM		AS-42	< 28.	< 28.	< 28.	< 28.	< 28.	NA	< 28.
	Apr-06	10-12'	ERM		AS-42	< 35.	< 35.	< 35.	< 35.	< 35.	NA	< 35.
AS-17	Apr-07	5-7'	ERM	4 of 4	GP-AS-17	470	14	27	< 9.6	< 4.8	NA	< 4.8
GP-AS-20	Apr-07	13-15'	ERM	4 of 4	GP-AS-20	< 5.5	< 5.5	< 5.5	< 11.	< 5.5	NA	< 5.5
GP-AS-28	Apr-07	12-14'	ERM	4 of 4	GP-AS-28	< 6.5	< 6.5	< 6.5	< 13.	< 6.5	NA	< 6.5
GP-AS-8	Apr-07	12-14'	ERM	4 of 4	GP-AS-8	< 5.6	< 5.6	< 5.6	< 11.	< 5.6	NA	< 5.6
GP-SVE-17	Apr-07	6-8'	ERM	4 of 4	GP-SVE-17	230	< 4.9	< 4.9	< 9.8	< 4.9	NA	< 4.9
GP-SVE-21	Apr-07	12-14'	ERM	4 of 4	GP-SVE-21	< 5.3	< 5.3	< 5.3	< 11.	< 5.3	NA	< 5.3
GP-SVE-8	Apr-07	12-14'	ERM	4 of 4	GP-SVE-8	26	< 6.8	< 6.8	< 14.	< 6.8	NA	< 6.8
GP-SVE-34	Apr-07	2-4'	ERM	1 of 1	GP-SVE-34	260.	120.	< 4.6	< 9.2	< 4.6	NA	< 4.6
	Apr-07	4-6'	ERM		GP-SVE-34	340.	39.	< 4.2	< 8.5	< 4.2	NA	< 4.2
	Apr-07	6-8'	ERM		GP-SVE-34	5.8	< 5.3	< 5.3	< 11.	< 5.3	NA	< 5.3
	Apr-07	8-10'	ERM		GP-SVE-34	9.9	< 5.	< 5.	< 10.	< 5.	NA	< 5.
HA-1	May-09	3	ERM	1 of 1	HA-1 (3')	<4.6	<4.6	<4.6	<9.2	<4.6	NA	<4.6
	May-09	6	ERM		HA-1 (6')	47	<5.6	<5.6	<11	<5.6	NA	<5.6
HA-2	May-09	3	ERM	1 of 1	HA-2(3')	170	5.6	35	<10	<5.2	NA	<5.2
	May-09	6	ERM		HA-2(6')	65	<5.6	<5.6	<11	<5.6	NA	<5.6
HA-3	May-09	3	ERM	1 of 1	HA-3(3')	24	<6.4	<6.4	<13	<6.4	NA	<6.4
	May-09	6	ERM		HA-3(6')	15	<5.2	<5.2	<10	<5.2	NA	<5.2
HA-4	May-09	3	ERM	1 of 1	HA-4(3')	130	<5.0	<5.0	<10	<5.0	NA	<5.0
	May-09	6	ERM		HA-4(6')	290	10	27	<9.9	<5.0	NA	<5.0
HA-9	May-09	3	ERM	1 of 1	HA-9(3')	17	21	5.3	<9.2	<4.6	<460	<4.6
HA-10	May-09	5	ERM	1 of 1	HA-10(5')	29	<4.8	<4.8	<9.7	<4.8	<480	<4.8
HA-11	May-09	5	ERM	1 of 1	HA-11(5')	31	<4.2	<4.2	<8.5	<4.2	<420	<4.2
HA-12	May-09	5	ERM	1 of 1	12	950	<300	<300	<600	<300	<30000	<300
HA-13	May-09	3	ERM	1 of 1	HA-13(3')	42	18	<5.4	<11	<5.4	<540	<5.4
HA-14	May-09	3	ERM	1 of 1	HA-14(3')	32	91	59	<9.9	<5.0	<500	<5.0
HA-15	May-09	5	ERM	1 of 1	HA-15(5')	5.6	<5.2	<5.2	<10	<5.2	<520	<5.2
HA-16	May-09	5	ERM	6 of 6	HA-16(5')	<4.7	<4.7	<4.7	<9.3	<4.7	<470	<4.7
HA-17	May-09	5	ERM	1 of 1	17	<5	<5	<5	<10	<5	<100	<5
HA-18	May-09	3	ERM	1 of 1	HA-18(3')	85	7.4	<5.4	<11	<5.4	<540	<5.4
HA-20	May-09	5	ERM	1 of 1	HA-20(5')	<5.2	<5.2	<5.2	<12	<5.8	<580	<5.8
HA-21	May-09	3	ERM	1 of 1	HA-21(3')	230	<5.6	<5.6	<11	<5.6	<560	<5.6
HA-22	May-09	3	ERM	1 of 1	HA-22(3')	23	<5.6	<5.6	<11	<5.6	<560	<5.6
HA-24	May-09	5	ERM	1 of 1	HA-24(5')	<4.4	100	180	<8.8	61	<440	<4.4
HA-25	May-09	3	ERM	1 of 1	HA-25(3')	85	<4.6	<4.6	<9.2	<4.6	<460	<4.6
HA-26	May-09	3	ERM	1 of 1	HA-26(3')	20	<5.5	<5.5	<11	<5.5	<550	<5.5
HA-27	May-09	5	ERM	1 of 1	HA-27(5')	12	<5.6	<5.6	<11	<5.6	<560	<5.6
HA-28	May-09	5	ERM	1 of 1	28	14	<4.6	<4.6	<9.2	<4.6	<460	<4.6
HA-29	May-09	5	ERM	1 of 1	29	<5.2	<5.2	<5.2	<10	<5.2	<520	<5.2
GP-100	Jan-10	4	ERM	1 of 1	GP-100(4)	150	<4.9	<4.9	<9.8	<4.9	<150	<4.9
	Jan-10	7	ERM		GP-100(7)	8.4	<5.6	<5.6	<11	<5.6	<170	<5.6
GP-101	Jan-10	3	ERM	1 of 1	GP-101(3')	8200	<230	<230	<470	<230	<7000	<230
	Jan-10	8	ERM		GP-101(8')	40	<6.2	<6.2	<12	<6.2	<180	<6.2
GP-102	Jan-10	3	ERM	1 of 1	GP-102(3')	170	<4.5	<4.5	<9	<4.5	<130	<4.5
	Jan-10	8	ERM		GP-102(8')	<5.6	<5.6	<5.6	<11	<5.6	<170	<5.6
GP-103	Jan-10	3	ERM	1 of 1	GP-103(3')	1800	<4.3	<4.3	<8.6	<4.3	<130	<4.3
	Jan-10	8	ERM		GP-103(8')	65	<5.8	<5.8	<12	<5.8	<170	<5.8
GP-104	Jan-10	3	ERM	1 of 1	GP-104(3')	120	<6.4	<6.4	<13	<6.4	<190	<6.4
	Jan-10	8	ERM		GP-104(8')	47	<6.0	<6.0	<12	<6.0	<180	<6.0
HA-19	Jan-10	2.5	ERM	2 of 2	HA-19(2.5')	82000	1200	<240	<470	<240	<7100	<240
	Jan-10	5	ERM		HA-19(5')	47	9.9	<5.7	<11	<5.7	<170	<5.7

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						RRS = 877 ug/kg	RRS = 500 ug/kg	RRS = 18,900 ug/kg	RRS = 200 ug/kg	Not Calculated - Chemicals Not Detected Above Soil NC		
HA-30	Jan-10	3	ERM	1 of 1	HA-30(3')	43000	1700	38	<9.7	<4.9	<150	<4.9
	Jan-10	5	ERM		HA-30(5')	53000	5700	16	<11	<5.4	<160	<5.4
HA-31	Jan-10	3	ERM	1 of 1	HA-31(3')	100000	600	<260	<520	<260	<7800	<260
	Jan-10	5	ERM		HA-31(5')	48000	1100	<270	<550	<270	<8200	<270
HA-32	Jan-10	3	ERM	1 of 1	HA-32(3')	30000	49	<4.8	<9.7	<4.8	<150	<4.8
	Jan-10	5	ERM		HA-32(5')	660	8.1	<4.6	<9.1	<4.6	<140	<4.6
GP-1A	Jan-10	7	ERM	2 of 2	GP-1A(7')	9.4	<5.0	<5.0	<10	<5.0	<150	<5.0
	Jan-10	10	ERM		GP-1A(10')	24	<6.2	<6.2	<12	<6.2	<190	<6.2
GP-2A	Jan-10	3	ERM	2 of 2	GP-2A(3')	25000	<240	<240	<470	<240	<7100	<240
	Jan-10	10	ERM		GP-2A(10')	610	<5.8	<5.8	<12	<5.8	<170	<5.8
GP-3A	Jan-10	5	ERM	2 of 2	GP-3A(5')	30	<5.4	<5.4	<11	<5.4	<160	<5.4
GP-2B	Jan-10	2	ERM	2 of 2	GP-2B(2')	66000	52	<4.9	<9.7	<4.9	<150	<4.9
	Jan-10	5	ERM		GP-2B(5')	14	<4.9	<4.9	<9.8	<4.9	<150	<4.9
GP-2C	Jan-10	1	ERM	2 of 2	GP-2C(1')	910	270	<4.5	<9.0	<4.5	<140	<4.5
AEM-GP4	Jan-10	1.5	ERM	2 of 2	AEM-GP-4(1.5)	160	7.6	<4.8	<9.6	<4.8	<140	<4.8
AEM-HA6	Jan-10	4.5	ERM	2 of 2	AEM-HA6(4.5')	69	<6	<6	<12	<6.0	<180	<6.0
	Jan-10	7	ERM		AEM-HA6(7')	13	<4.9	<4.9	<9.8	<4.9	<150	<4.9
HA-23	Jan-10	3	ERM	2 of 2	HA-23(3')	1100	67	<5.0	<9.9	<5.0	<150	<5.0
	Jan-10	7	ERM		HA-23(7')	89	15	<5.6	<11	<5.6	<170	<5.6
	Jan-10	10	ERM		HA-23(10')	39	<5.5	<5.5	<11	<5.5	<160	<5.5
GP-AS-23	Jan-10	5	ERM	6 of 6	GP-AS-23(5')	89	<4.6	<4.6	<9.3	<4.6	<140	<4.6
GP-5GR	Jan-10	3	ERM	7 of 7	GP-5GR(3')	6600	13	<5.2	<10	<5.2	<160	<5.2
GP-5DR	Jan-10	3	ERM	5 of 5	GP-5D(3')	39000	<250	<250	<500	<250	<7500	<250
	Jan-10	11	ERM		GP-5D(11')	620	<6.6	<6.6	<13	<6.6	<200	<6.6
GP-5E	Jan-10	3	ERM	3 of 3	GP-5E(3')	74	13	<4.8	<9.5	<4.8	140	<4.8
GP-5H	Jan-10	3	ERM	4 of 4	GP-5H(3')	61000	2300	<210	<430	<210	<6400	<210
GP-AS-39	Jan-10	3	ERM	6 of 6	GP-AS-39(3')	2000	<5.9	<5.9	<12	<5.9	<180	<5.9
	Jan-10	11	ERM		GP-AS-39(11')	530	<5.8	<5.8	<12	<5.8	<170	<5.8
GP-AS-40	Jan-10	3	ERM	4 of 4	GP-AS-40(3')	1500	10	<4.5	<9.0	<4.5	<130	<4.5
AEM-GP-3	Jan-10	3	ERM	6 of 6	AEM-GP-3(3')	12000	3100	34	<9.7	<4.9	<150	<4.9
AREA A NORTHWALL 3'	6/14/10	North Wall - 3' bgs	ERM	1 of 1	AREA A NORTHWALL 3'	460	<180	<180	<360	<180	<5400	<180
AREA A NORTHWALL 6'	6/14/10	North Wall - 6' bgs	ERM	1 of 1	AREA A NORTHWALL 6'	140	<4.4	<4.4	<8.7	<4.4	<130	<4.4
AREA A SOUTHWALL 3'	6/14/10	South Wall - 3' bgs	ERM	1 of 1	AREA A SOUTHWALL 3'	450	<200	<200	<400	<200	<5900	<200
AREA A SOUTHWALL 6'+6'	6/22/10	South Wall - 6' bgs	ERM	1 of 1	AREA A SOUTHWALL 6'+6'	790	21	19	<10.0	<5.1	<150	<5.1
AREA A EASTWALL 3'	6/14/10	East Wall - 3' bgs	ERM	1 of 1	AREA A EASTWALL 3'	170	<4.5	17	<9.0	<4.5	<130	<4.5
AREA A EASTWALL 6'+2'	6/18/10	East Wall - 6' bgs	ERM	1 of 1	AREA A EASTWALL 6'+2'	300	<4.3	14	<8.6	<4.3	<130	<4.3
AREA A WESTWALL 3'	6/14/10	West Wall - 3' bgs	ERM	1 of 1	AREA A WESTWALL 3'	75	<3.3	9	<6.5	<3.3	<98	<3.3
AREA A WESTWALL 6'	6/14/10	West Wall - 6' bgs	ERM	1 of 1	AREA A WESTWALL 6'	140	4.4	19	<7.8	<3.9	<120	<3.9
AREA B WEST WALL SURFACE	6/3/10	West Wall	ERM	1 of 1	AREA B WEST WALL SUR	710	<3.4	<3.4	<6.9	<3.4	<100	<3.4
AREA B EAST WALL 2'	6/7/10	East Wall	ERM	1 of 1	AREA B EAST WALL 2'	30	<3.1	<3.1	<6.3	<3.1	<94	<3.1
AREA B NORTHWALL	6/7/10	North Wall	ERM	1 of 1	AREA B NORTHWALL	110	<3.4	<3.4	<6.7	<3.4	<100	<3.4
AREA B BOTTOM SURFACE	6/4/10	Bottom	ERM	1 of 1	AREA B BOTTOM SUR	81.4	<2.7	<2.7	<5.4	<2.7	<80	<2.7
AREA C NORTHWALL	6/7/10	North Wall	ERM	1 of 1	AREA C NORTHWALL	19	<4.5	<4.5	<8.9	<4.5	<130	<4.5
AREA C EAST WALL SURFACE	6/3/10	East Wall	ERM	1 of 1	AREA C EAST WALL SUR	34	<4.3	<4.3	<8.7	<4.3	<130	<4.3
AREA C WEST WALL SURFACE	6/3/10	West Wall	ERM	1 of 1	AREA C WEST WALL SUR	94	<2.6	<2.6	<5.2	<2.6	<77	<2.6
AREA C BOTTOM SURFACE	6/4/10	Bottom	ERM	1 of 1	AREA C BOTTOM SUR	63	<3.4	<3.4	<6.7	<3.4	<100	<3.4
AREA D SOUTH WALL 4'	6/1/10	South Wall	ERM	1 of 1	AREA D SOUTH WALL 4'	500	4.5	<3.0	<6.0	<3.0	<90	<3.0
AREA D WESTWALL 10'	6/9/10	West Wall	ERM	1 of 1	AREA D WESTWALL 10'	570	23	<5.7	<11	<5.7	<170	<5.7
AREA D EASTWALL 1'	5/21/10	East Wall	ERM	1 of 1	AREA D EASTWALL 1'	500	14	<3.7	<7.4	<3.7	<110	<3.7
AREA D BOTTOM SURFACE	5/19/10	Base	ERM	1 of 1	AREA D BOTTOM SUR	590	<3.5	<3.5	<7.0	<3.5	<110	<3.5
AREA ES SOUTHWALL W-1'	5/21/10	South Wall - West Side	ERM	1 of 1	AREA ES SOUTHWALL W-1'	290	39	<4.4	<8.8	<4.4	<130	<4.4
AREA ES SOUTH WALL E-6'	6/7/10	South Wall - East Side	ERM	1 of 1	AREA ES SOUTH WALL E-6'	27	17	<3.3	<6.7	<3.3	<110	<3.3
AREA ES WESTWALL S-6'	6/7/10	West Wall - southern part	ERM	1 of 1	AREA ES WESTWALL S-6'	270	180	16	<6.4	<3.2	<96	<3.2

Table 1
Soil Analytical Data
Former Dickies Industrial Services, Inc.
HSI Site No. 10127
ug/kg

Name of this location on the Soil Delineation Maps	Date of Sample	Depth of Sample	Name of Organization that Collected Sample	Number of times this location has been sampled	Sample ID	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride	trans-1,2-Dichloroethene	1,4-Dioxane	1,1-Dichloroethene
						RRS = 877 ug/kg	RRS = 500 ug/kg	RRS = 18,900 ug/kg	RRS = 200 ug/kg	Not Calculated - Chemicals Not Detected Above Soil NC		
AREA ES WESTWALL N-8	6/9/10	West Wall - northern part	ERM	1 of 1	AREA ES WESTWALL N-8	430	330	<3.0	<6.1	<3.0	<91	<3.0
AREA ES EASTWALL 3'	6/3/10	East Wall	ERM	1 of 1	AREA ES EASTWALL 3'	750	<3.5	<3.5	<7	<3.5	<110	<3.5
AREA ES BOTTOM SURFACE	5/20/10	Base	ERM	1 of 1	AREA ES BOTTOM SUR	12	<3.3	<3.3	<6.6	<3.3	<100	NR
AREA EM WEST WALL SURFACE	5/25/10	West Wall	ERM	1 of 1	AREA EM WEST WALL SUR	85	<6.2	<6.2	<12	<6.2	<190	<6.2
AREA EM EAST WALL 4'	6/3/10	East Wall	ERM	1 of 1	AREA EM EAST WALL 4'	36	<2.9	<2.9	<5.8	<2.9	<87	<2.9
AREA EM BOTTOM 1'	5/25/10	Base	ERM	1 of 1	AREA EM BOTTOM 1'	790	<3.2	<3.2	<6.4	<3.2	<96	<3.2
AREA EN WEST WALL SURFACE	5/21/10	West Wall	ERM	1 of 1	AREA EN WEST WALL SUR	17	37	<3.2	<6.3	<3.2	<95	<3.2
AREA EN NORTHWALL W-S	5/21/10	North Wall - West Side	ERM	1 of 1	AREA EN NORTHWALL W-S	24	10	<3.4	<6.9	<3.4	<100	<3.4
AREA EN NORTHWALL E-SU	5/21/10	North Wall - East Side	ERM	1 of 1	AREA EN NORTHWALL E-SU	78	14	<4.0	<8.1	<4.0	<120	<4.0
AREA EN EASTWALL 1'	5/24/10	East Wall	ERM	1 of 1	AREA EN EASTWALL 1'	790	<3.3	<3.3	<6.6	<3.3	<98	<3.3
AREA EN BOTTOM SURFACE	5/21/10	Base	ERM	1 of 1	AREA EN BOTTOM SUR	69	4.8	<3.7	<7.4	<3.7	<110	<3.7
AREA F NORTH WALL SURFACE	5/26/10	North Wall	ERM	1 of 1	AREA F NORTH WALL SUR	11	<4.0	<4.0	<7.9	<4.0	<120	<4.0
AREA F WEST WALL SURFACE	5/26/10	West Wall	ERM	1 of 1	AREA F WEST WALL SUR	50	<3.4	<3.4	<6.9	<3.4	<100	<3.4
AREA F SOUTH WALL SURFACE	5/26/10	South Wall	ERM	1 of 1	AREA F SOUTH WALL SUR	170	13	<3.4	<6.8	<3.4	<100	<3.4
AREA F EAST WALL SURFACE	5/26/10	East Wall	ERM	1 of 1	AREA F EAST WALL SUR	63	6.1	<3.5	<7.0	<3.5	<110	<3.5
AREA F BOTTOM SURFACE	5/26/10	Base	ERM	1 of 1	AREA F BOTTOM SUR	20	<4.4	<4.4	<8.8	<4.4	<130	<4.4
AREA G WEST WALL SURFACE	5/20/10	West Wall	ERM	1 of 1	AREA G WEST WALL SUR	87	<3.8	<3.8	<7.6	<3.8	<110	<3.8
AREA "G" SOUTHWALL SURFACE	5/19/10	South Wall	ERM	1 of 1	AREA "G" SOUTHWALL SUR	45	<4.3	<4.3	<8.6	<4.3	<130	<4.3
AREA "G" EASTWALL SURFACE 2'	5/19/10	East Wall	ERM	1 of 1	AREA "G" EASTWALL SUR 2'	37	<4.7	<4.7	<9.4	<4.7	<140	<4.7
AREA "G" BOTTOM SURFACE 4'	5/19/10	Base	ERM	1 of 1	AREA "G" BOTTOM SUR 4'	620	<3.4	<3.4	<6.8	<3.4	<100	<3.4
ERM-SB-A	9/23/10	4	ERM	1 of 1	ERM-SB-A-4	<6	<6	<6	<12	<6	<180	<6
	9/23/10	8	ERM		ERM-SB-A-8	<5.6	<5.6	<5.6	<11	<5.6	<170	<5.6
ERM-SB-B	9/23/10	8	ERM	1 1	ERM-SB-B-8	<4.9	<4.9	<4.9	<9	<4.9	<150	<4.9
ERM-SB-C	9/23/10	4	ERM	1 1	ERM-SB-C-4	6	<5	<5	<10	<5	<150	<5

NOTES:

^A Reported as 1,2-Dichloroethene, total

NA = Not Analyzed

NS = Not Sampled

Highlighted Cells > RRS (these samples >RRS have since been remediated)

Table 2
Monitoring Well Construction Details
Former Dickies Industrial Services, Inc.
HSI Site No. 10127

Well No.	Land Surface Elevation (ft-msl)	TOC Elevation (ft-msl) (8)	Top of Bentonite Seal (ft bg)	Casing† Stick-up (TOC to Pad) (ft)	Total Boring Depth (ft bg)	Depth to Water Below TOC	Casing Length (ft)	Screen Length (ft)	Screen Interval (ft-bg)	Casing/Screen Material diameter	Depth of PDB Placement (ft-bTOC)	Date Completed	Date Closed	Easterly Coordinate	Northerly Coordinate	Aquifer Zone	Property	Comment
CDM WELLS																		
CP-MW-1	1013.04	1014.29	2	Flush Mount	20	13.1	5	15	5-20	2"/PVC	16	10/16/90		2204298.28	1319058.15	Shallow	DISI	Well was raised 10 1/8 inches (0.843 ft) on 3/15/04 during well pad repairs. TOC values in this table has been changed to reflect this.
CP-MW-2	1013.04	1012.85	2	Flush Mount	27		7	20	7-27	2"/PVC	17	10/17/90		2204248.04	1319062.43	Shallow	DISI	
CP-MW-3	1013.41	1013.12	2	Flush Mount	27		7	20	7-27	2"/PVC	NA	10/19/90	2/11/03	2204242.69	1318973.46	Shallow	DISI	
CP-MW-4	1023.73	1023.46	13	Flush Mount	27		17	10	17-27	2"/PVC	NA	10/18/90	2/11/03	2204289.32	1319068.64	Shallow	DISI	
CP-MW-5	1014.72	1017.04	12	2.5	31		16	15	16-31	2"/PVC	NA	3/11/91	2/14/00	2204264.93	1319256.95	Shallow	CCE	Closed 2/14/00 for CCE construction
CP-MW-6	1012.92	1012.73	30	Flush Mount	45		34	10	34-44	2"/PVC	NA	3/12/91	12/1/03	2204241.80	1319062.64	Deep	DISI	Closed by ERM/Kilman team on 12/1/2003.
CP-MW-7	1013.76	1013.60	5	Flush Mount	24		9	15	9-24	2"/PVC	NA	3/13/91	04/07/03	2204202.46	1319120.90	Shallow	CCE	Closed 4/7/2003 due to proximity to AS well and screened depth
CP-MW-8	1013.35	1013.21	6	Flush Mount	55		10	40	10-50	4"/PVC	30	3/14/91		2204267.17	1319062.70	Deep	DISI	
Hill-Fister Engineers, Inc.																		
EF-MW-1			14	2.83	30.5		20.5	10	20.5-30.5	2"/PVC	NA	9/25/87	2/14/00			Shallow	CCE	Closed 2/14/00 for CCE construction
EF-MW-2	1012.75	1014.77	2.5	2.5	15		5	10	5-15	2"/PVC	NA	9/25/87	12/1/03	2204339.31	1319194.95	Shallow	DISI	Closed by ERM/Kilman team on 12/1/2003.
EF-MW-3	1011.89	1013.60	2	1.58	18		8	10	8-18	2"/PVC	NA	9/25/87	2/14/00	2204399.76	1319329.27	Shallow	CCE	Closed 2/14/00 for CCE construction
A.T.&E. Consultants, Inc.																		
EF-MW-4	1012.63	1014.11	2.5	1.5	18.5		8.5	10	8.5-18.5	2"/PVC	14	6/26/87		2204289.32	1319068.64	Shallow	DISI	
RMT Wells																		
MW-3A	1013.02	1013.26	34.5	Flush Mount	72		47	5	47-52	2"/PVC	NA	9/9/92	2/11/03	2204242.21	1318967.28	Deep	DISI	
MW-9	1014.06	1016.90	1	Yes	15	16.12	3.5	10	3.5-13.5	2"/PVC	10.5	8/26/92		2204268.16	1319198.34	Shallow	DISI	
MW-9A	1013.94	1016.65	31	Yes	41.5	16.91	36.5	5	36.5-41.5	2"/PVC	NA	8/27/92	4/2/03	2204275.39	1319198.98	Deep	DISI	Became AS-13 well, 4/2003
MW-10	1015.08	1018.08	5	Yes	20	17.82	8.5	10	8.5-18.5	2"/PVC	16	8/26/92		2204399.40	1319053.32	Shallow	DISI	
MW-10A	1012.83	1015.78	43	Yes	54.5	15.5	47.8	5	47.8-52.8	2"/PVC	51	8/31/92		2204399.56	1319061.15	Deep	DISI	
MW-11	1014.87	1017.60	2	Yes	15		5	10	5-15	2"/PVC	NA	9/1/92	2/14/00	2204207.52	1319289.83	Shallow	CCE	Closed 2/14/00 for CCE construction
MW-12	1013.39	1013.25	2	Yes	15	12.42	5	10	5-15	2"/PVC	10	9/1/92	Converted to SVE-4	2204200.51	1319062.42	Shallow	CCE	Became SVE-4 well during construction, 4/2003. New TOC was not surveyed - do not use for GW potentiometric surface maps
MW-13	1013.99	1013.50	2	Flush Mount	15	17.08	5	10	5-15	2"/PVC	13	9/1/92		2204193.30	1318955.23	Shallow	CCE	WELL TOC WAS LOWERED ON 1/13/06. Lowered by 3.39 feet
MW-13A	1013.96	1013.56	62	Flush Mount	72	17.25	65	5	65-70	2"/PVC	70	9/2/92		2204193.62	1318950.63	Deep	CCE	WELL TOC WAS LOWERED ON 1/13/06 by 3.39 feet
MW-14	1014.21	1017.28	2	Flush Mount	17.5		5	10	5-15	2"/pvc	13	9/4/92		2204203.00	1319204.37	Shallow	CCE	
ERM Wells																		
MW-9B	1014.20	1016.81	2	2.43	16		6	10	6-16	2"/PVC	NA	3/12/1999	12/1/03	2204290.25	1319199.3	Shallow	DISI	Closed by ERM/Kilman team on 12/1/2003.
MW-9C	1013.99	1016.84	Ground Surface	2.57	15		5	10	5-15	2"/PVC	NA	3/12/1999	12/1/03	2204304.93	1319198.35	Shallow	DISI	Closed by ERM/Kilman team on 12/1/2003.
MW-15	1023.85	1023.67	56	Flush Mount	70		60	10	60-70	2"/PVC	NA	9/30/1998	2/11/03	2203929.63	1318697.41	Deep	SEARS	
MW-16	1023.66	1023.42	15	Flush Mount	29		19	10	19-29	2"/PVC	NA	10/1/1998	2/11/03	2203934.11	1318699.35	Shallow	SEARS	
MW-17	1027.23	1029.41	14	2.03	29		18	10	18-28	2"/PVC	NA	10/1/1998	2/14/00	2204536.09	1318692.35	Shallow	CCE	Closed 2/14/00 for CCE construction
MW-18D	1013.40	1013.97	No Seal	Flush Mount	132	12.38	92	Open Borehole	Open Borehole	6"/PVC	110	10/29/1998		2204306.25	1319064.42	Deep	DISI	Rock Well. Well was raised 9 1/2 inches (0.791 ft) on 4/7/04 during well pad repairs. TOC value in this table has been changed to reflect this.
MW-19	1022.68	1022.36	57	Flush Mount	75	24.36	65	10	65-75	2"/PVC	70	11/24/1998		2204931.78	1318964.69	Deep	CCE	
MW-20	1022.68	1022.45	17.5	Flush Mount	33	25.02	23	10	23-33	2"/PVC	28	11/24/1998		2204937.2	1319213.73	Shallow	CCE	
MW-21	1031.18	1030.74	29	Flush Mount	51	30.56	40	10	40-50	2"/PVC	NA	11/30/1998	6/2/2003	2203447.33	1319249.56	Deep	DOVER	
MW-22	1031.17	1030.86	20	Flush Mount	35	30.55	24.6	10	24.6-34.6	2"/PVC	NA	12/1/1998	6/2/2003	2203450.5	1319237.05	Shallow	DOVER	
MW-23	1008.84	1011.02	46	2.18	62		52	10	52-62	2"/PVC	NA	3/9/1999	9/12/2002	2204687.09	1320542.82	Deep	CCE/STEVENSON	
MW-24	1009.09	1011.16	3	1.84	19		8	10	8-18	2"/PVC	NA	3/10/1999	9/12/2002	2204687.51	1320535.19	Shallow	CCE/STEVENSON	
MW-25	1023.12	1022.82	30	Flush Mount	34	30.95	34	10	34-44	2"/PVC	39	3/10/1999		2205501.13	1319122.87	Deep	CCE	
MW-26	1006.71	1009.31	14**	2.35	35.5		35.5	10	35.5-45.5	2"/PVC	NA	5/5/1999	9/12/2002	2204825.51	1320916.44	Deep	CCE/STEVENSON	
MW-27	1006.92	1009.16	Surface	1.49	23		10	10	8-18	2"/PVC	NA	5/5/1999	9/12/2002	2204819.98	1320911.56	Shallow	CCE/STEVENSON	
MW-28	NS	NS	Surface	NS	22		22	10	22-32	2"/PVC	NA	8/12/1999	2/14/00	NS	NS	Shallow	CCE	Closed 2/14/00 for CCE construction

Table 2
Monitoring Well Construction Details
Former Dickies Industrial Services, Inc.
HSI Site No. 10127

Well No.	Land Surface Elevation (ft-msl)	TOC Elevation (ft-msl) (8)	Top of Bentonite Seal (ft bg)	Casing† Stick-up (TOC to Pad) (ft)	Total Boring Depth (ft bg)	Depth to Water Below TOC	Casing Length (ft)	Screen Length (ft)	Screen Interval (ft-bg)	Casing/ Screen Material diameter	Depth of PDB Placement (ft-bTOC)	Date Completed	Date Closed	Easterly Coordinate	Northerly Coordinate	Aquifer Zone	Property	Comment
MW-28R	1009.56	1009.53	19	Flush Mount	33	11.37	13	10	23-33	2"/PVC	18	9/6/2002		2204564.88	1319752.56	Shallow	CCE	
MW-29	1005.87	1009.31	20.5	3.44	35		25	10	25-35	2"/PVC	NA	7/10/2000	2/14/00	2204858.07	1319936.85	Shallow	CCE	Temporary. May have been destroyed during construction
MW-29R	1010.21	1010.07	20.8	Flush Mount	35	14	25	10	25-35	2"/PVC	30	9/5/2002		2204845.17	1319887.15	Shallow	CCE	no standard penetration test performed
MW-30	1022.85	1026.11	16	3.26	35		21	10	21-31	2"/PVC	NA	7/10/2000	12/1/2003	2204120.19	1319794.83	Shallow	CCE	Closed by ERM/Kilman team on 12/1/2003.
MW-31	1017.75	1017.38	35***	Flush Mount	63.5		53.5	10	53.5-63.5	2"/PVC	59	7/13/2000		2204050.47	1318808.45	Deep	SMITH	Closed by ERM/Betts Env. team in Dec. 2007
MW-32	1019.76	1019.19	Surface	Flush Mount	20	17.92	10	10	10-20	2"/PVC	15	7/12/2000		2203979.36	1319176.24	Shallow	PUJA	
MW-33	1030.14	1029.73	18	Flush Mount	33	29.24	23	10	23-33	2"/PVC	28	7/11/2000		2203686.27	1319238.93	Shallow	DOVER	
MW-34	1015.39	1015.4	25	Flush Mount	40	14.53	30	10	30-40	2"/PVC	35	9/4/2002		2204190.55	1318812.74	Deep	DISI	
MW-35	1022.71	1022.55	20.5	Flush Mount	35	22.32	25	10	25-35	2"/PVC	30	9/5/2002		2204556.04	1318845.61	Shallow	CCE	no lithologies taken
MW-35A	1022.74	1022.57	36	Flush Mount	50	22.32	40	10	40-50	2"/PVC	45	9/5/2002		2204558.69	1318845.34	Deep	CCE	
MW-36	1015.31	1015.16	7.6	Flush Mount	22	14.6	12	10	12-22	2"/PVC	17	9/5/2002		2204239.23	1319377.7	Shallow	CCE	
MW-37	1013.92	1013.49	21	Flush Mount	35	13.47	25	10	25-35	2"/PVC	30	9/6/2002		2204382.5	1319345.81	Shallow	CCE	no lithologies taken
MW-37A	1013.98	1013.69	36	Flush Mount	50	13.19	40	10	40-50	2"/PVC	45	9/6/2002		2204386.36	1319345.75	Deep	CCE	
MW-38	1018.5	1018.4	19.8	Flush Mount	35	18.83	25	10	25-35	2"/PVC	30	9/4/2002		2204597.63	1319050.56	Shallow	CCE	no lithologies taken
MW-38A	1018.5	1018.31	35.8	Flush Mount	49	18.73	39	10	39-49	2"/PVC	44	9/4/2002		2204597.78	1319048.11	Shallow	CCE	
MW-39	NS	NS	13	Flush Mount	25		15	10	15-25	2"/PVC	NA	2/18/2011		NS	NS	Shallow	PUJA	

NOTES:

Ground surface elevations and top-of-casing elevations surveyed on September 15, 1998

Depths to ground water collected in September 2002

Well coordinates surveyed on September 15, 1998

ft bg = feet below ground

ft msl = feet above mean sea level

ft btoc = feet below top of casing

NA = Not Available

NS = Not surveyed

* = Surface casing set to 92 feet bg., well is bedrock, open borehole well.

** = Top of Bentonite seal should be at about 31.5 feet bg., some cave-in occurred when augers were pulled.

*** = Top of Bentonite seal should be at about 48 feet bg., some cave-in occurred when augers were pulled.

Note: FF of Bldg. 1019.5

Table 3
 Ground Water Elevation Data
 Former Dickies Industrial Services, Inc.
 HSI Site No. 10127

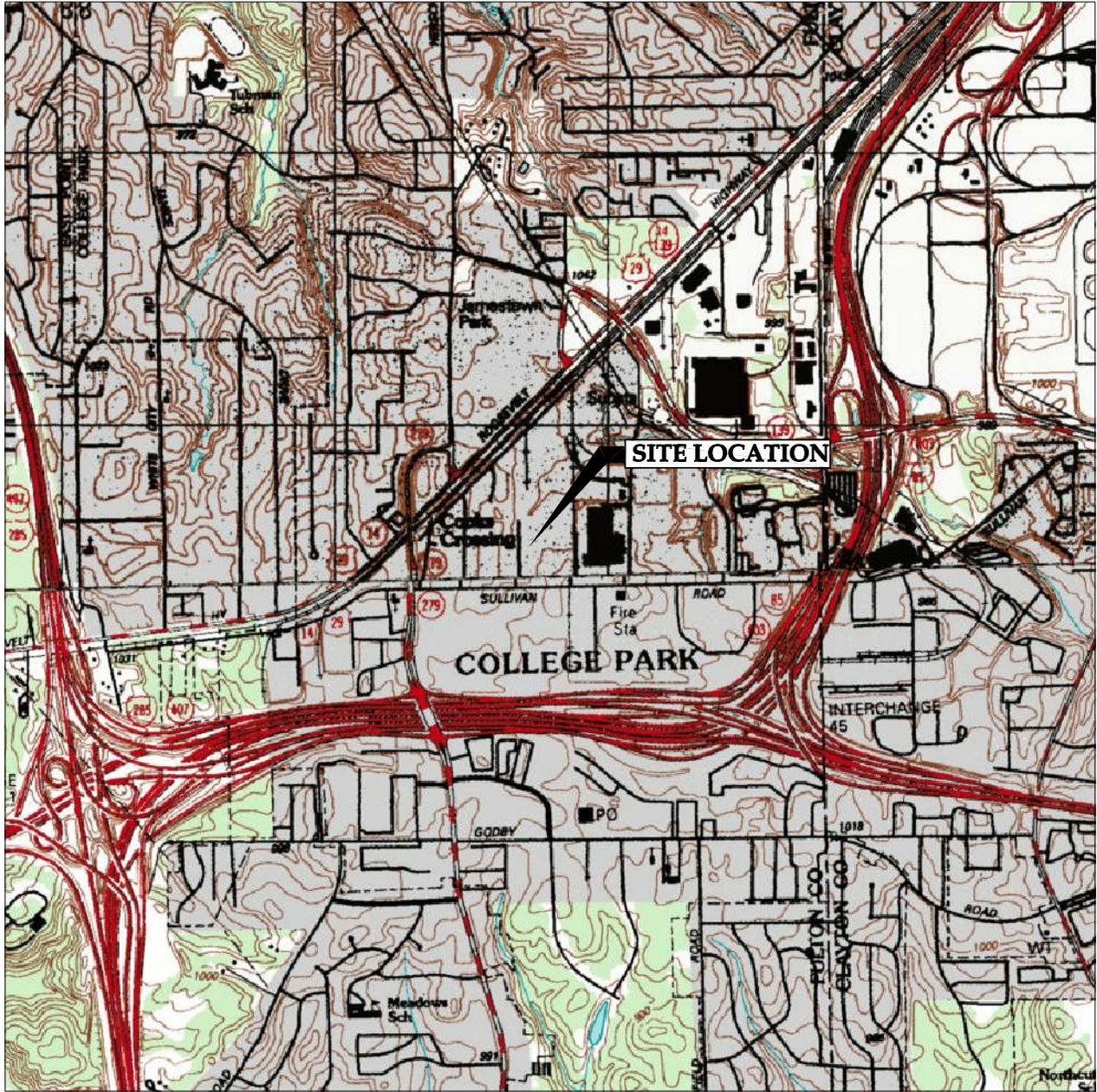
Well ID	TOC ELEV	October 3, 2005		October 11, 2006		October 10, 2007		October 6, 2008		October 20, 2009		October 11, 2010	
		Depth to Water	Water Table Elevation	Depth to Water	Water Table Elevation	Depth to Water	Water Table Elevation	Depth to Water	Water Table Elevation	Depth to Water	Water Table Elevation	Depth to Water	Water Table Elevation
MW-1	1014.29	9.53	1004.76	12.50	1001.79	14.10	1000.19	14.15	1000.14	10.35	1003.94	11.40	1002.89
MW-2	1012.85	5.11	1007.74	9.80	1003.05	12.21	1000.64	12.86	999.99	9.58	1003.27	8.90	1003.95
MW-4	1014.11	8.94	1005.17	10.60	1003.51	13.10	1001.01	13.67	1000.44	10.00	1004.11	9.60	1004.51
MW-8	1013.21	8.14	1005.07	9.90	1003.31	11.38	1001.83	13.12	1000.09	9.83	1003.38	9.30	1003.91
MW-9	1016.90	12.22	1004.68	13.90	1003.00	16.05	1000.85	16.44	1000.46	13.35	1003.55	12.91	1003.99
MW-10	1018.08	13.53	1004.55	15.50	1002.58	17.90	1000.18	18.11	999.97	14.48	1003.60	14.74	1003.34
MW-10A	1015.78	11.42	1004.36	13.10	1002.68	15.58	1000.20	15.88	999.90	12.68	1003.10	12.40	1003.38
MW-12	1013.25	13.23	1000.02	13.40	999.85	15.37	997.88	15.95	997.30	13.18	1000.07	12.18	1001.07
MW-13	1013.50	12.72	1004.17	10.80	1002.70	12.90	1000.60	13.46	1000.04	10.73	1002.77	9.77	1003.73
MW-13A	1013.56	NM	NM	10.80	1002.76	12.94	1000.62	13.50	1000.06	10.78	1002.78	9.77	1003.79
MW-14	1017.28	11.97	1005.31	13.80	1003.48	15.89	1001.39	16.45	1000.83	13.64	1003.64	12.72	1004.56
MW-18D	1013.97	5.92	1008.05	10.80	1003.17	12.19	1001.78	13.46	1000.51	10.80	1003.17	9.96	1004.01
MW-19	1022.36	19.50	1002.86	20.96	1001.40	21.46	1000.90	23.92	998.44	21.66	1000.70	20.64	1001.72
MW-20	1022.45	21.02	1001.43	22.31	1000.14	24.11	998.34	24.79	997.66	23.08	999.37	22.63	999.82
MW-25	1022.82	25.59	997.23	27.30	995.52	28.85	993.97	29.50	993.32	27.85	994.97	26.48	996.34
MW-28R	1009.53	NM	NM	10.45	999.08	11.56	997.97	17.75	991.78	14.65	994.88	13.95	995.58
MW-29R	1010.07	10.92	999.15	12.54	997.53	13.29	996.78	14.32	995.75	10.70	999.37	11.79	998.28
MW-32	1019.19	17.20	1001.99	16.09	1003.10	16.78	1002.41	18.80	1000.39	15.91	1003.28	14.91	1004.28
MW-33	1029.73	25.30	1004.43	27.20	1002.53	29.24	1000.49	29.55	1000.18	27.34	1002.39	25.77	1003.96
MW-34	1015.40	NM	NM	11.90	1003.50	14.23	1001.17	14.92	1000.48	12.23	1003.17	11.12	1004.28
MW-35	1022.55	NM	NM	19.16	1003.39	21.31	1001.24	22.30	1000.25	20.79	1001.76	18.86	1003.69
MW-35A	1022.57	NM	NM	19.15	1003.42	21.31	1001.26	22.30	1000.27	20.80	1001.77	18.82	1003.75
MW-36	1015.16	NM	NM	12.22	1002.94	14.30	1000.86	14.90	1000.26	11.90	1003.26	11.19	1003.97
MW-37	1013.49	NM	NM	10.94	1002.55	13.31	1000.18	13.80	999.69	10.64	1002.85	10.20	1003.29
MW-37A	1013.69	9.34	1004.35	10.96	1002.73	13.15	1000.54	13.75	999.94	10.85	1002.84	10.05	1003.64
MW-38	1018.40	14.53	1003.87	15.70	1002.70	17.91	1000.49	19.65	998.75	16.76	1001.64	15.30	1003.10
MW-38A	1018.31	14.50	1003.81	15.70	1002.61	17.93	1000.38	18.92	999.39	16.64	1001.67	15.25	1003.06

Table 4
VOCs in Ground Water Monitoring Wells
Former Dickies Industrial Services, Inc.
HSI Site No. 10127
ug/L

Existing Well ID	Date Installed	Date Sampled	Detected Compound (ug/L)						
			PCE	TCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	VC	1,4-Dioxane
MW-1	10/16/1990	10/20/2010	20,000	400	< 5	1,300	20	11	< 150
MW-2	10/17/1990	10/20/2010	64	9.2	< 5	23	< 5	< 2	< 150
MW-4	6/26/1987	10/20/2010	1700	49	< 5	190	< 5	< 2	< 150
MW-8	3/14/1991	10/23/2009	< 2	< 2	< 2	< 2	< 2	< 2	< 500
MW-9	8/26/1992	10/21/2010	20	< 5	< 5	< 5	< 5	< 2	< 150
MW-9A (converted to AS-13 4/2/03)	8/27/1992	9/10/2002	350	19	< 2	53	< 2	< 2	NA
MW-10	8/26/1992	10/20/2010	210	11	< 5	14	< 5	< 2	< 150
MW-10A	8/31/1992	10/20/2010	1,100	98	< 5	270	< 5	< 2	< 150
MW-12 (converted to SVE-4 4/2/03)	9/1/1992	10/18/2010	22	< 5	< 5	23	< 5	< 2	< 150
MW-13	9/1/1992	10/19/2010	120	10	< 5	6.6	< 5	< 2	< 150
MW-13A	9/2/1992	10/19/2010	18	< 5	< 5	< 5	< 5	< 2	< 150
MW-14	9/4/1992	10/19/2010	10	< 5	< 5	< 5	< 5	< 2	< 150
MW-18D	10/29/1998	10/19/2010	< 5	< 5	< 5	< 5	< 5	< 2	< 150
MW-19	11/24/1998	10/14/2010	< 5	< 5	< 5	< 5	< 5	< 2	< 150
MW-20	11/24/1998	10/14/2010	74	9.7	< 5	400	< 5	< 2	< 150
MW-21 (closed 6/2/2003)	11/30/1998	3/3/2003	< 2	< 2	< 2	< 2	< 2	< 2	NA
MW-22 (closed 6/2/2003)	12/1/1998	9/4/2002	< 2	< 2	< 2	< 2	< 2	< 2	NA
MW-25	3/10/1999	10/14/2010	110	6.2	< 5	23	< 5	< 2	< 150
MW-28/28R	9/6/2002	10/21/2010	< 5	< 5	< 5	16	< 5	3.1	< 150
MW-29/29R	9/5/2002	10/15/2010	< 5	< 5	< 5	< 5	< 5	< 2	< 150
MW-32	7/12/2000	10/18/2010	100	5.6	< 5	20	< 5	< 2	< 150
MW-33	7/11/2000	10/18/2010	< 5	< 5	< 5	< 5	< 5	< 2	< 150
MW-34	9/4/2002	10/19/2010	< 5	< 5	< 5	< 5	< 5	< 2	< 150
MW-35	9/5/2002	10/15/2010	< 5	< 5	< 5	< 5	< 5	< 2	< 150
MW-35A	9/5/2002	10/15/2010	< 5	< 5	< 5	< 5	< 5	< 2	< 150
MW-36	9/5/2002	10/15/2010	< 5	< 5	< 5	< 5	< 5	< 2	< 150
MW-37	9/6/2002	10/21/2010	22	< 5	< 5	7.8	< 5	< 2	< 150
MW-37A	9/6/2002	10/15/2010	< 5	< 5	< 5	110	< 5	2.6	< 150
MW-38	9/4/2002	10/18/2010	< 5	< 5	< 5	< 5	< 5	< 2	< 150
MW-38A	9/4/2002	10/18/2010	< 5	< 5	8.6	3,800	< 5	13	< 150
MW-39	2/18/2011	2/23/2011	< 5	< 5	< 5	< 5	< 5	< 2	< 150

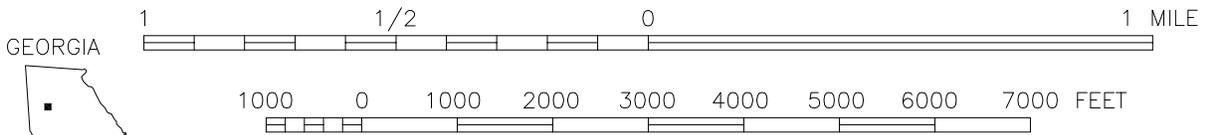
Notes:

NA = Not Analyzed



SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC QUADRANGLE: SOUTHWEST ATLANTA, GA - 1995.

SCALE 1:24000



QUADRANGLE LOCATION

CONTOUR INTERVAL 10 FEET

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



**Environmental
Resources
Management**

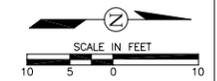
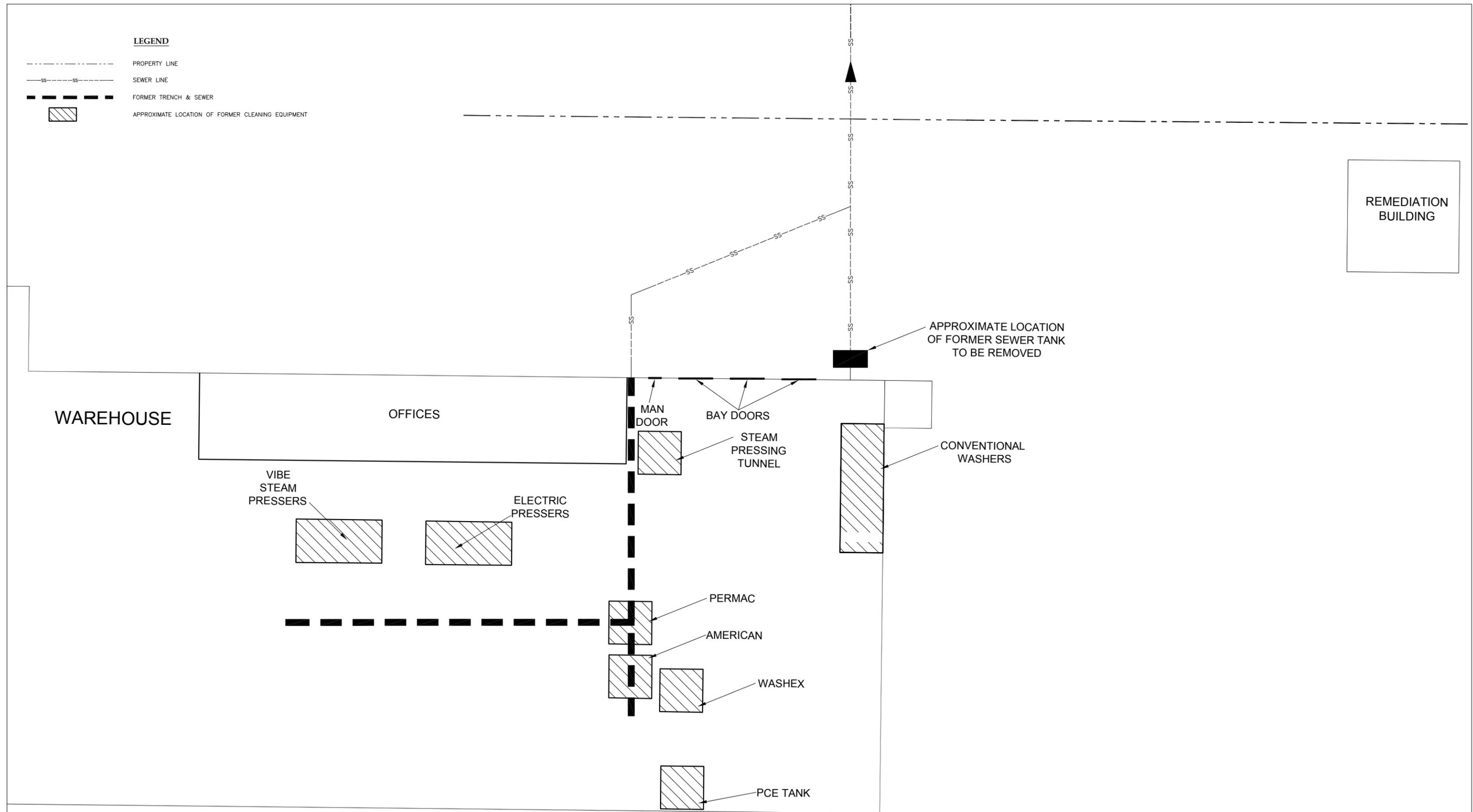
**SITE LOCATION MAP
VOLUNTARY COMPLIANCE STATUS REPORT
FORMER DICKIES INDUSTRIAL SERVICES, INC.
COLLEGE PARK, GEORGIA**

FIGURE

1

LEGEND

- PROPERTY LINE
- SS- -SS- SEWER LINE
- FORMER TRENCH & SEWER
- [Hatched Box] APPROXIMATE LOCATION OF FORMER CLEANING EQUIPMENT



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

VOLUNTARY COMPLIANCE STATUS REPORT

FORMER DICKIES INDUSTRIAL SERVICES, INC. COLLEGE PARK, GEORGIA

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



LOCATION OF FORMER OPERATIONS

SCALE AS NOTED	DATE MARCH 18, 2011
PROJECT NO. 121103	AutoCAD 2007 101103Site2.DWG

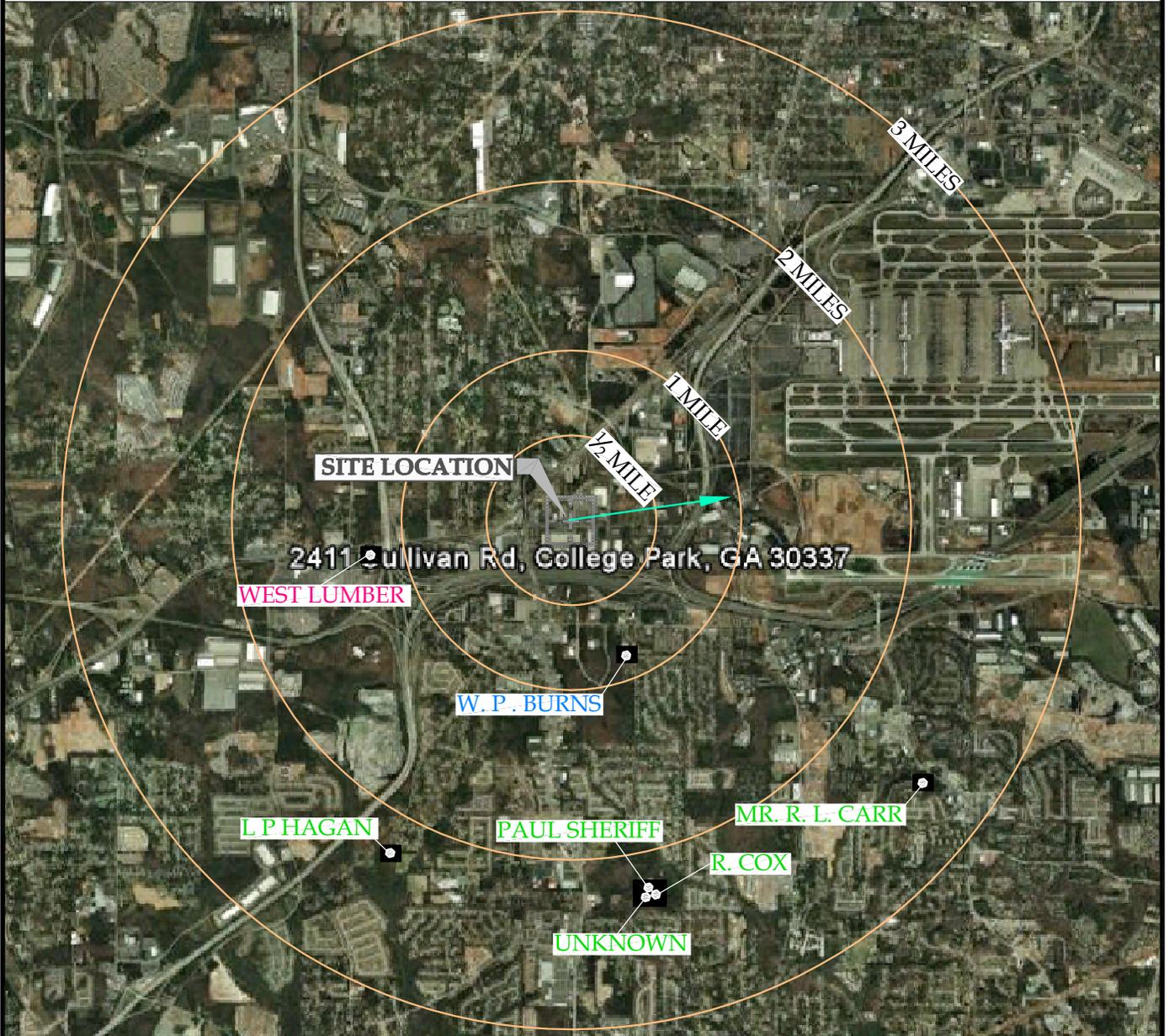
DRAWING NO. 2
REV. NO. 0
SHEET 1 OF 1

121103Site2.DWG 3/18/11 SPV REV

LEGEND

- WEST LUMBER COMMERCIAL WELL
- PAUL SHERIFF HOUSEHOLD WELL
- W. P. BURNS UNUSED WELL

APPARENT DIRECTION OF GROUND WATER FLOW FROM HSI #10127



121103Site3.DWG 3/18/11 SPV REV



Environmental Resources Management

GROUND WATER RECEPTOR MAP
VOLUNTARY COMPLIANCE STATUS REPORT
FORMER DICKIES INDUSTRIAL SERVICES, INC.
COLLEGE PARK, GEORGIA

FIGURE

3

LEGEND

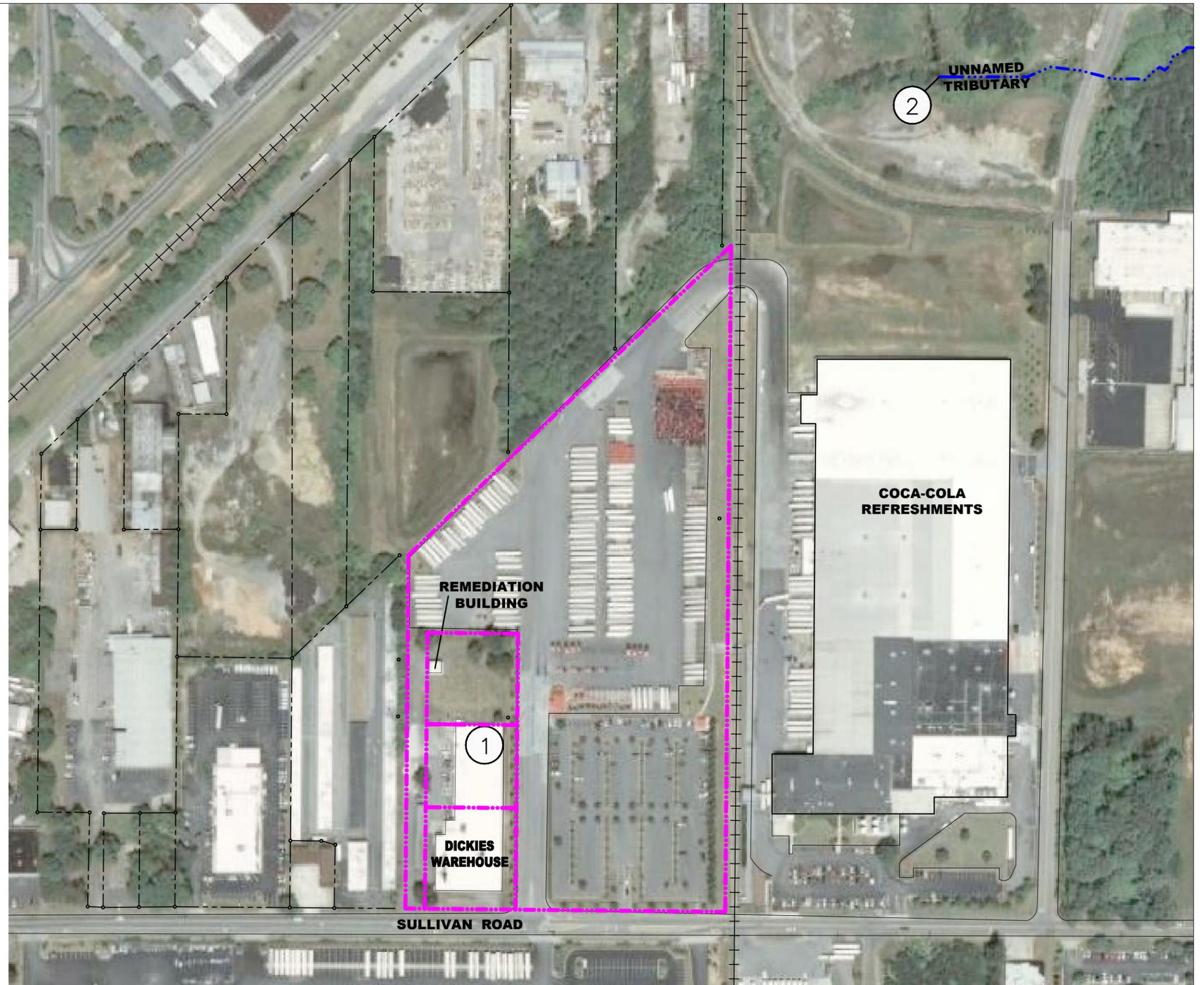
-  UNNAMED SURFACE WATER FEATURE AS MAPPED ON USGS 7.5 MIN. TOPO QUAD SOUTHWEST ATLANTA, GA 1983
-  RAIL ROAD
-  PROPERTY BOUNDARY
-  PROPERTY BOUNDARY FOR VRP PARTICIPANT
-  DISTANCE REFERENCE POINT

NOTE: REFERENCE POINTS AND DESCRIPTION

- ① GENERAL AREA OF RELEASE
- ② HEADWORK OF USGS MAPPED SURFACE WATER FEATURE (BLUE-LINE STREAM)
- ③ CONFLUENCE WITH FLINT RIVER (NOT SHOWN ON THIS FIGURE)

DISTANCES FROM POINT OF RELEASE:

- ①-② 1,780 FT.
- ②-③ 24,000 FT. (4.5 MILES ±)
- ①-③ 4.9 MILES ±



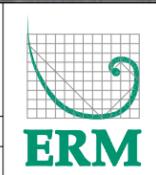
121103Site4.dwg 3/22/11

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

VOLUNTARY COMPLIANCE STATUS REPORT

FORMER DICKIES INDUSTRIAL SERVICES COLLEGE PARK, GEORGIA

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



NOT FOR CONSTRUCTION

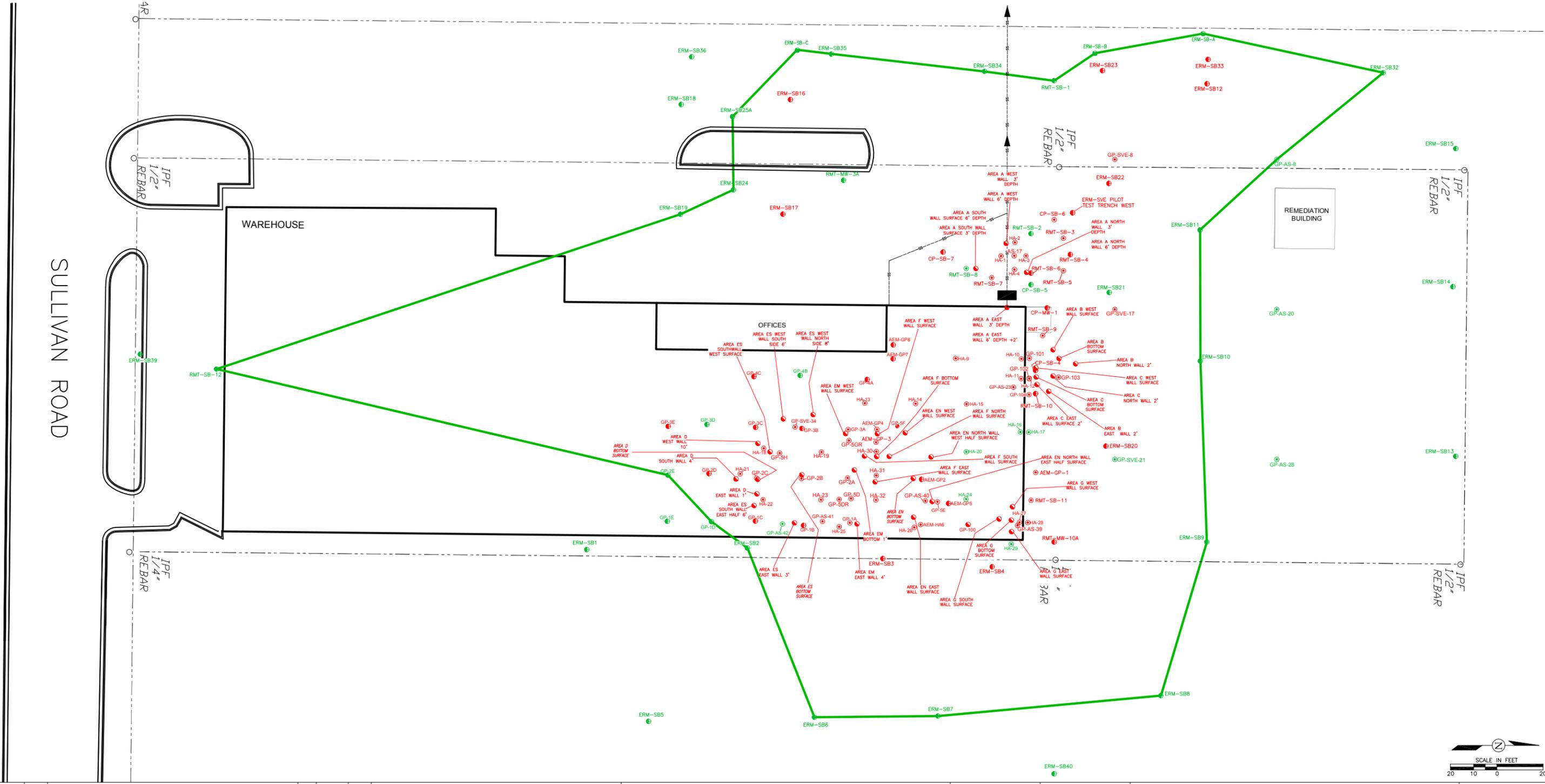
SURFACE WATER RECEPTOR MAP

SCALE AS NOTED	DATE MARCH 22, 2011
PROJECT NO. 121103	AutoCAD 2007 121103Site4.DWG

ATTACHMENT 4	REV. NO. 0
SHEET 1 OF 1	

LEGEND

- AREA ES EAST WALL 3' SAMPLE COLLECTED AFTER THE 2010 SOIL EXCAVATION - COMPOUND WAS DETECTED BELOW THE DETECTION LIMIT
- HA-20 SAMPLE COLLECTED BETWEEN JANUARY 2000 AND JANUARY 2010 - COMPOUND WAS DETECTED BELOW THE DETECTION LIMIT
- GP-3D SAMPLE COLLECTED BETWEEN 1990 AND 1999 - COMPOUND WAS DETECTED BELOW THE DETECTION LIMIT
- AREA B BOTTOM SURFACE SAMPLE COLLECTED AFTER THE 2010 SOIL EXCAVATION - COMPOUND WAS DETECTED ABOVE THE DETECTION LIMIT (BUT BELOW TYPE 4 RRS)
- HA-31 SAMPLE COLLECTED BETWEEN JANUARY 2000 AND JANUARY 2010 - COMPOUND WAS DETECTED ABOVE THE DETECTION LIMIT
- GP-3E SAMPLE COLLECTED BETWEEN 1990 AND 1999 - COMPOUND WAS DETECTED ABOVE THE DETECTION LIMIT
- PROPERTY LINE
- SEWER LINE
- DELINEATION BOUNDARY



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

VOLUNTARY COMPLIANCE STATUS REPORT

FORMER DICKIES INDUSTRIAL SERVICES, INC. COLLEGE PARK, GEORGIA
 DRAWN BY S. VIZUETE PROJECT ENGINEER S. THOMPSON
 DESIGN ENGINEER L. DORMAN PROJECT MANAGER S. THOMPSON



NOT FOR CONSTRUCTION

**SOIL DELINEATION MAP
TETRACHLOROETHENE IN SOIL (1990 - 2010)**

SCALE AS NOTED DATE MARCH 1, 2011
 PROJECT NO. 121103 AutoCAD 2007 121103Site5.DWG

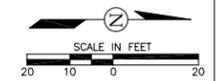
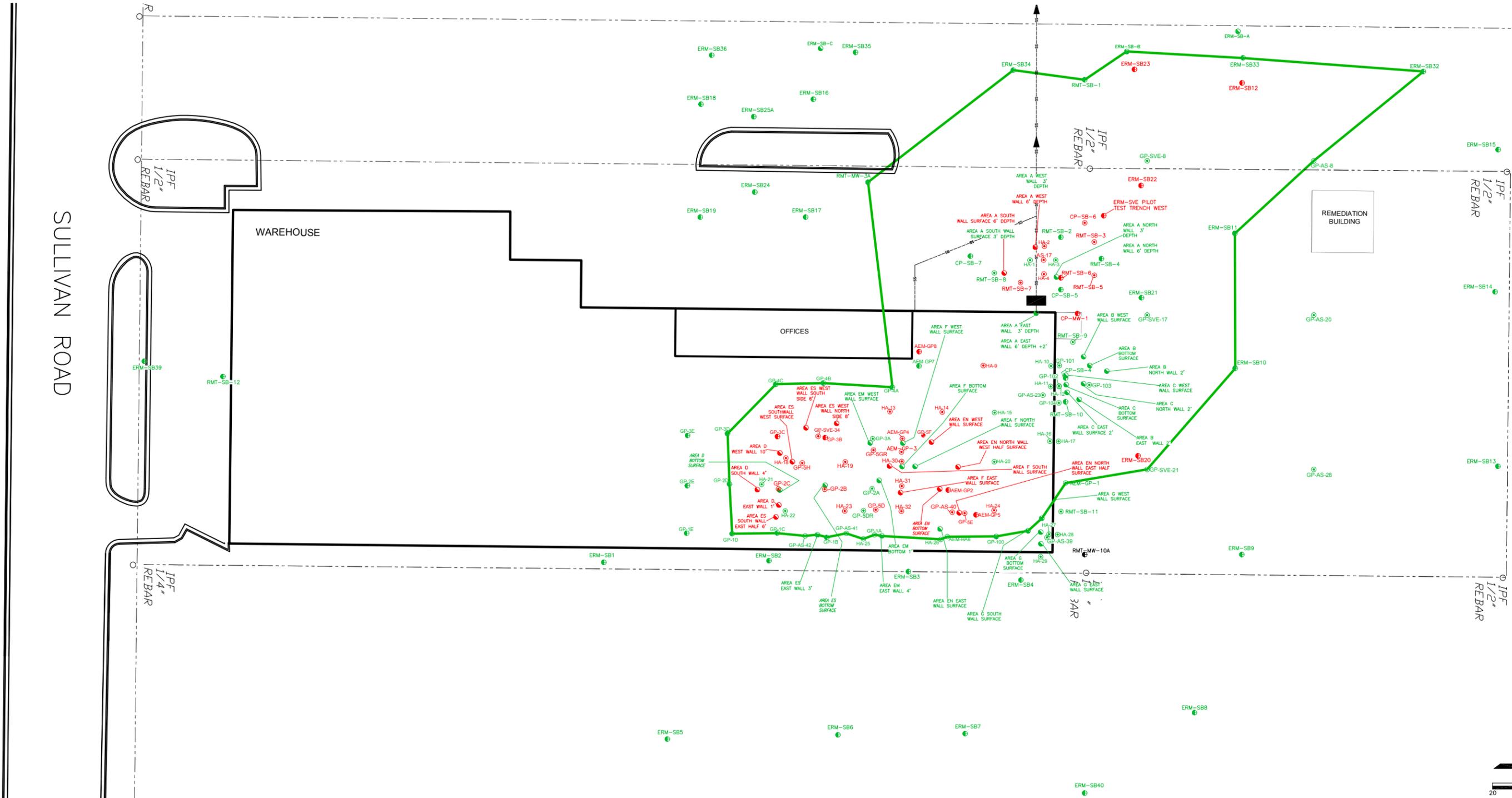
DRAWING NO.	5
REV. NO.	0
SHEET	1 OF 1

121103Site5.DWG 3/9/11 SPV REV. 3/24/11

LEGEND

- AREA ES EAST WALL 3'
- HA-20
- GP-3D
- PROPERTY LINE
- SS --- SEWER LINE

- AREA B BOTTOM SURFACE
- HA-31
- GP-3E
- RMT-MW-10A NOT ANALYZED
- SAMPLE COLLECTED AFTER THE 2010 SOIL EXCAVATION - COMPOUND WAS DETECTED ABOVE THE DETECTION LIMIT (BUT BELOW TYPE 4 RRS)
- SAMPLE COLLECTED BETWEEN JANUARY 2000 AND JANUARY 2010 - COMPOUND WAS DETECTED ABOVE THE DETECTION LIMIT
- SAMPLE COLLECTED BETWEEN 1990 AND 1999 - COMPOUND WAS DETECTED BELOW THE DETECTION LIMIT
- DELINEATION BOUNDARY



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

VOLUNTARY COMPLIANCE STATUS REPORT

FORMER DICKIES INDUSTRIAL SERVICES, INC. COLLEGE PARK, GEORGIA

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



SOIL DELINEATION MAP
TRICHLOROETHENE IN SOIL (1990 - 2010)

SCALE AS NOTED	DATE MARCH 9, 2011
PROJECT NO. 121103	AutoCAD 2007 121103Site6.DWG

DRAWING NO.
6

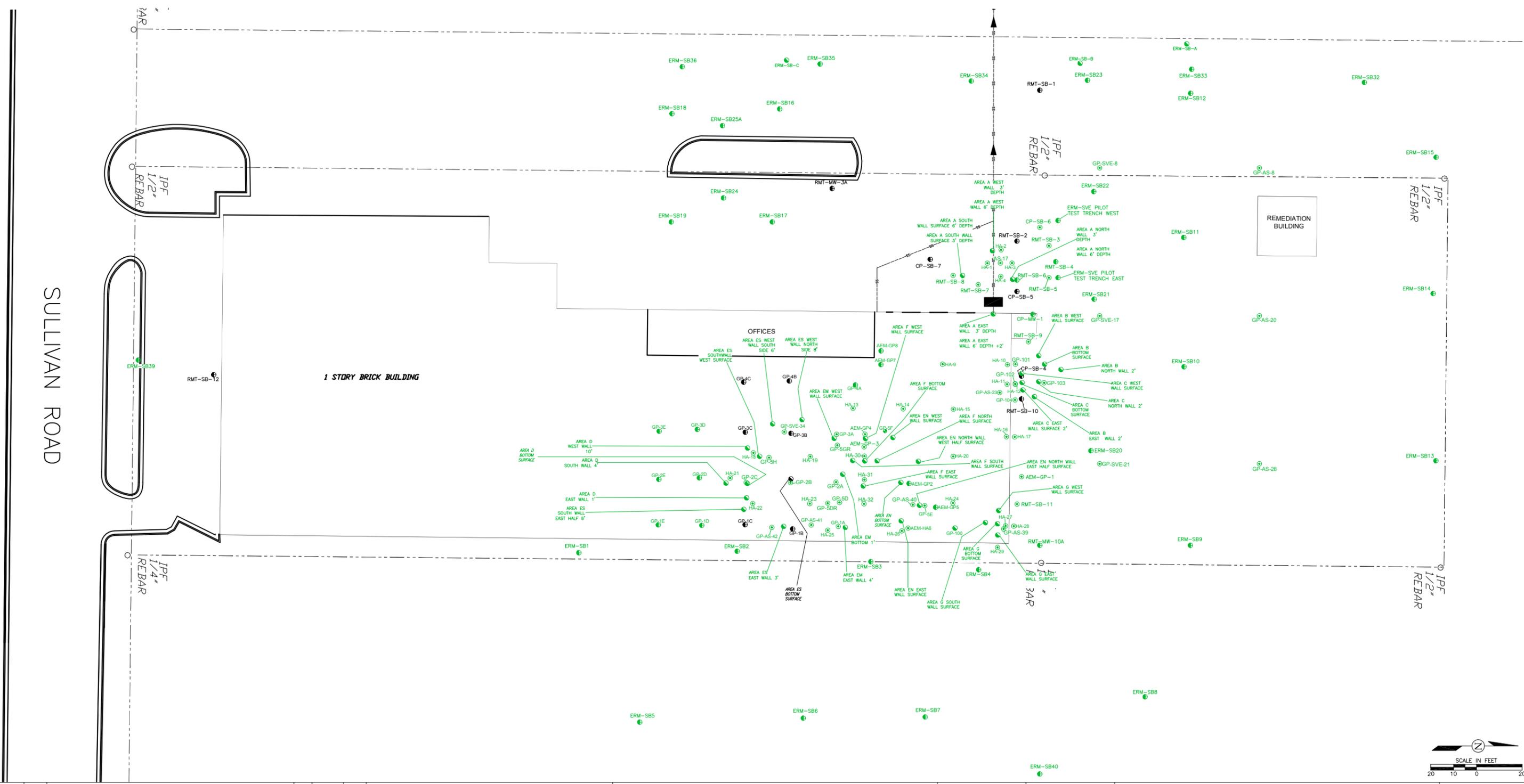
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SHEET **1** OF **1**

121103Site6.DWG 3/9/11 REV 3/24/11

LEGEND

- AREA ES EAST WALL 3' SAMPLE COLLECTED AFTER THE 2010 SOIL EXCAVATION - COMPOUND WAS DETECTED BELOW THE DETECTION LIMIT
- AREA B BOTTOM SURFACE SAMPLE COLLECTED AFTER THE 2010 SOIL EXCAVATION - COMPOUND WAS DETECTED ABOVE THE DETECTION LIMIT (BUT BELOW TYPE 4 RRS)
- HA-20 SAMPLE COLLECTED BETWEEN JANUARY 2000 AND JANUARY 2010 - COMPOUND WAS DETECTED BELOW THE DETECTION LIMIT
- HA-31 SAMPLE COLLECTED BETWEEN JANUARY 2000 AND JANUARY 2010 - COMPOUND WAS DETECTED ABOVE THE DETECTION LIMIT
- GP-3D SAMPLE COLLECTED BETWEEN 1990 AND 1999 - COMPOUND WAS DETECTED BELOW THE DETECTION LIMIT
- GP-3E SAMPLE COLLECTED BETWEEN 1990 AND 1999 - COMPOUND WAS DETECTED ABOVE THE DETECTION LIMIT
- PROPERTY LINE
- SEWER LINE
- RMT-MW-10A NOT ANALYZED



121103Site7.DWG 3/9/11 3PM REV 5/2/11

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

VOLUNTARY COMPLIANCE STATUS REPORT

FORMER DICKIES INDUSTRIAL SERVICES, INC. COLLEGE PARK, GEORGIA

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

NOT FOR CONSTRUCTION

SOIL DELINEATION MAP
1,1-DICHLOROETHENE IN SOIL (1990 - 2010)

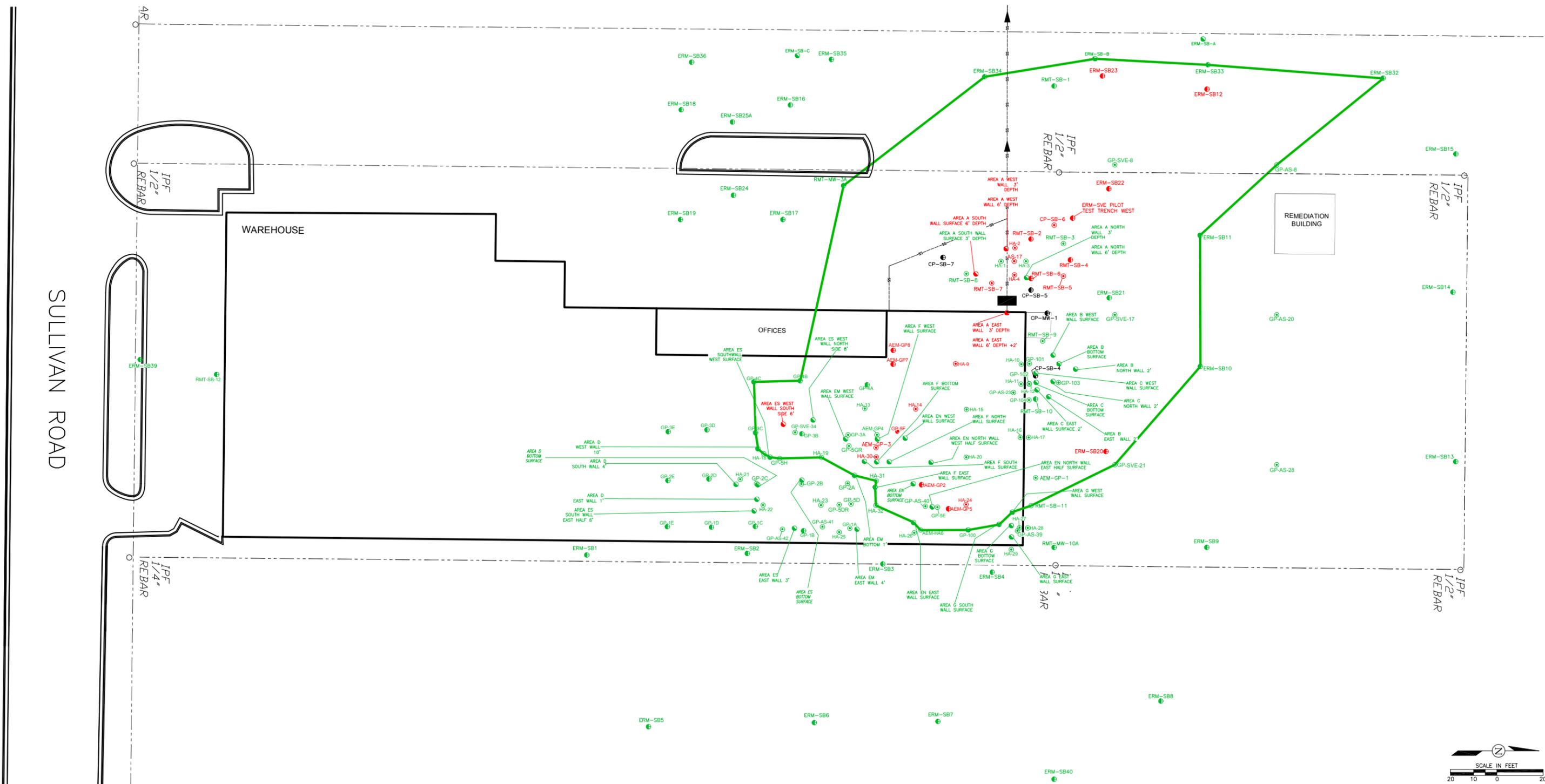
SCALE AS NOTED	DATE MARCH 9, 2011
PROJECT NO. 121103	AutoCAD 2007 121103Site7.DWG

DRAWING NO. 7
REV. NO. 0
SHEET 1 OF 1

LEGEND

- AREA ES EAST WALL 3'
- HA-20
- GP-3D
- PROPERTY LINE
- SEWER LINE

- RMT-MW-10A NOT ANALYZED
- AREA B BOTTOM SURFACE
- HA-31
- GP-3E
- SAMPLE COLLECTED AFTER THE 2010 SOIL EXCAVATION - COMPOUND WAS DETECTED ABOVE THE DETECTION LIMIT (BUT BELOW TYPE 4 RRS)
- SAMPLE COLLECTED BETWEEN JANUARY 2000 AND JANUARY 2010 - COMPOUND WAS DETECTED ABOVE THE DETECTION LIMIT
- SAMPLE COLLECTED BETWEEN 1990 AND 1999 - COMPOUND WAS DETECTED ABOVE THE DETECTION LIMIT
- DELINEATION BOUNDARY



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

VOLUNTARY COMPLIANCE STATUS REPORT

FORMER DICKIES INDUSTRIAL SERVICES, INC. COLLEGE PARK, GEORGIA

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



SOIL DELINEATION MAP
CIS-1,2-DICHLOROETHENE IN SOIL (1990 - 2010)

SCALE AS NOTED DATE MARCH 9, 2011

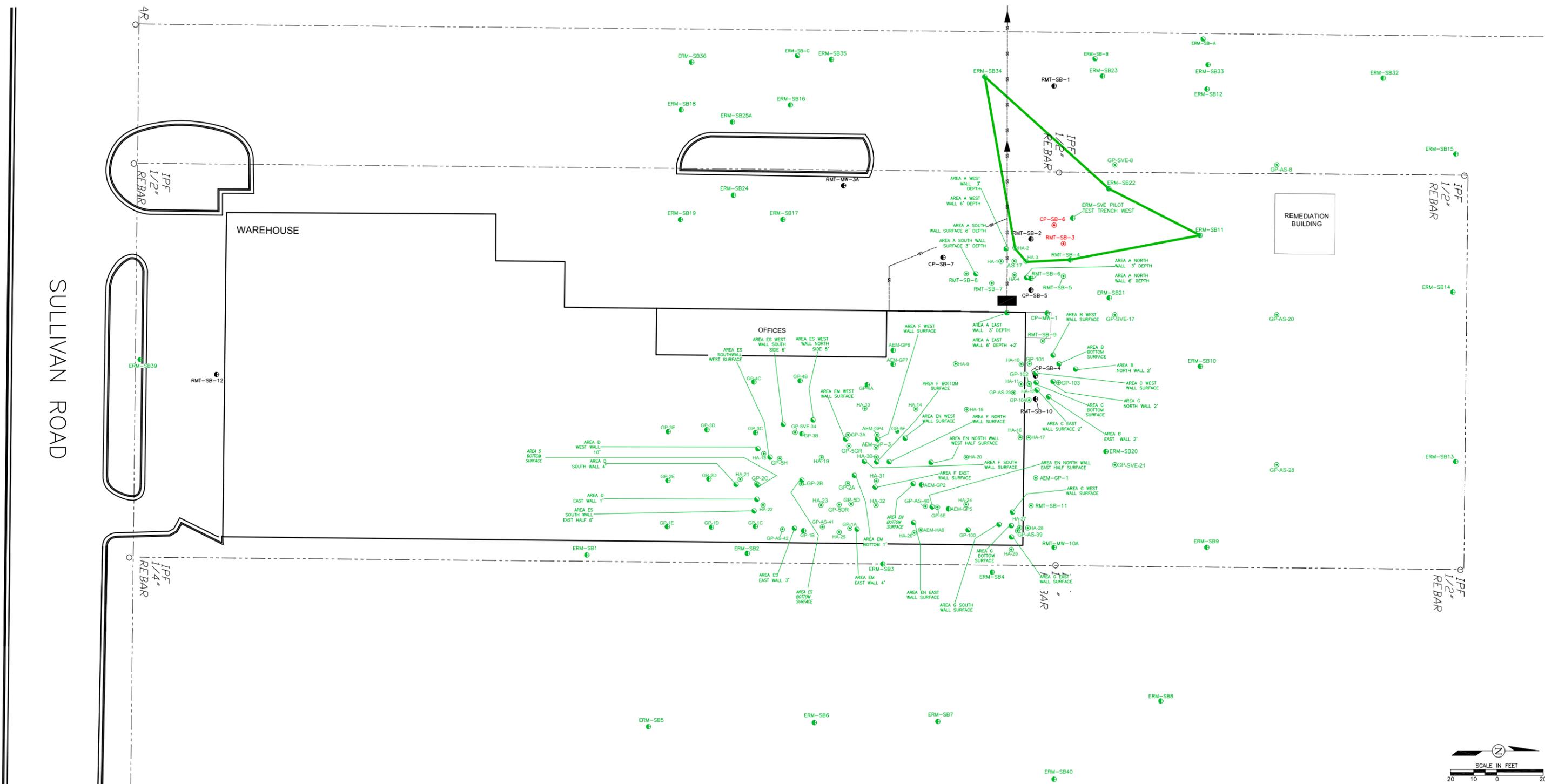
PROJECT NO. 121103 AutoCAD 2007 121103SiteB.DWG

DRAWING NO.	8
REV. NO.	0
SHEET	1 OF 1

121103SiteB.dwg 3/9/11

LEGEND

- AREA ES EAST WALL 3' SAMPLE COLLECTED AFTER THE 2010 SOIL EXCAVATION - COMPOUND WAS DETECTED BELOW THE DETECTION LIMIT
- HA-20 SAMPLE COLLECTED BETWEEN JANUARY 2000 AND JANUARY 2010 - COMPOUND WAS DETECTED BELOW THE DETECTION LIMIT
- GP-3D SAMPLE COLLECTED BETWEEN 1990 AND 1999 - COMPOUND WAS DETECTED BELOW THE DETECTION LIMIT
- PROPERTY LINE
- SEWER LINE
- RMT-MW-10A NOT ANALYZED
- AREA B BOTTOM SURFACE SAMPLE COLLECTED AFTER THE 2010 SOIL EXCAVATION - COMPOUND WAS DETECTED ABOVE THE DETECTION LIMIT (BUT BELOW TYPE 4 RRS)
- HA-31 SAMPLE COLLECTED BETWEEN JANUARY 2000 AND JANUARY 2010 - COMPOUND WAS DETECTED ABOVE THE DETECTION LIMIT
- GP-3E SAMPLE COLLECTED BETWEEN 1990 AND 1999 - COMPOUND WAS DETECTED ABOVE THE DETECTION LIMIT
- DELINEATION BOUNDARY



121103Site10.DWG 3/9/11

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

VOLUNTARY COMPLIANCE STATUS REPORT

FORMER DICKIES INDUSTRIAL SERVICES, INC. COLLEGE PARK, GEORGIA

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



NOT FOR CONSTRUCTION

SOIL DELINEATION MAP
VINYL CHLORIDE IN SOIL (1990 - 2010)

SCALE AS NOTED	DATE MARCH 9, 2011
PROJECT NO. 1211103	AutoCAD 2007 1211103Site10.DWG

DRAWING NO.
10

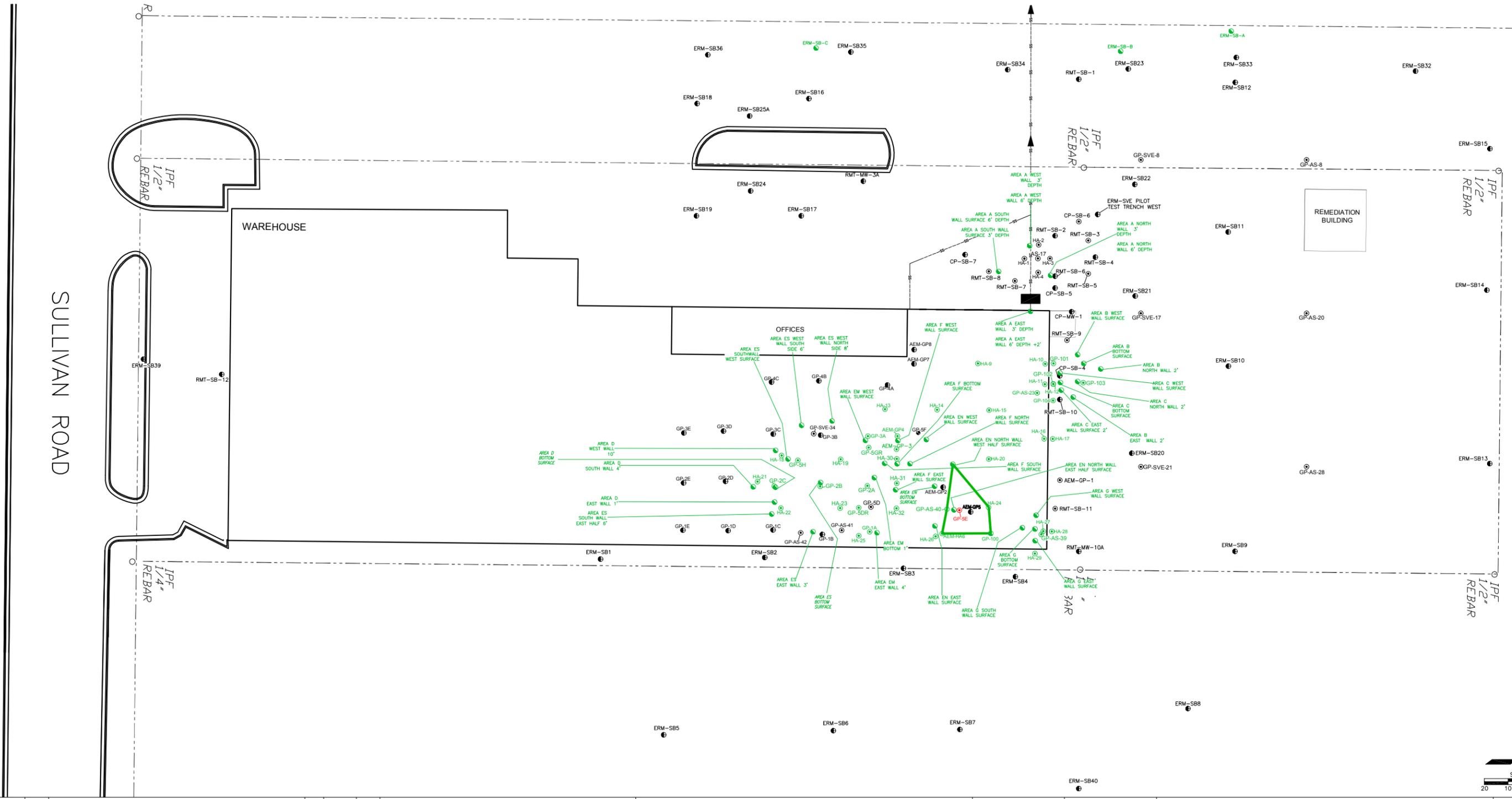
REV. NO.
0

SHEET **1** OF **1**

LEGEND

- AREA ES EAST WALL 3'
- HA-20
- GP-3D
- PROPERTY LINE
- SS --- SEWER LINE

- RMT-MW-10A NOT ANALYZED
- AREA B BOTTOM SURFACE
- HA-31
- GP-3E
- SAMPLE COLLECTED AFTER THE 2010 SOIL EXCAVATION - COMPOUND WAS DETECTED ABOVE THE DETECTION LIMIT (BUT BELOW TYPE 4 RRS)
- SAMPLE COLLECTED BETWEEN JANUARY 2000 AND JANUARY 2010 - COMPOUND WAS DETECTED ABOVE THE DETECTION LIMIT
- SAMPLE COLLECTED BETWEEN 1990 AND 1999 - COMPOUND WAS DETECTED ABOVE THE DETECTION LIMIT
- DELINEATION BOUNDARY



121103Site11.DWG 3/9/11

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

VOLUNTARY COMPLIANCE STATUS REPORT

FORMER DICKIES INDUSTRIAL SERVICES, INC. COLLEGE PARK, GEORGIA

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



NOT FOR CONSTRUCTION

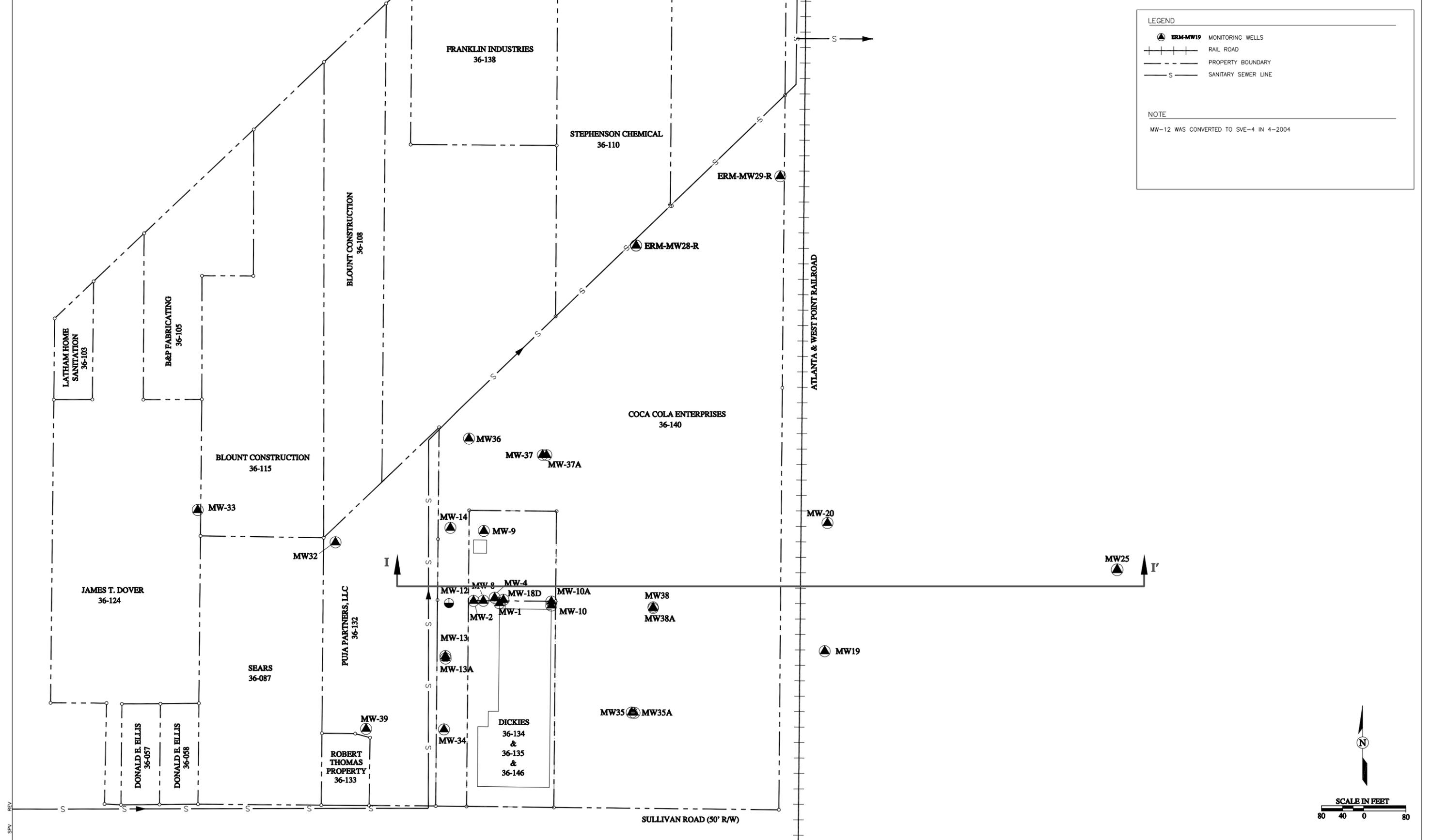
SOIL DELINEATION MAP
1,4-DIOXANE IN SOIL (1990 - 2010)

SCALE AS NOTED	DATE MARCH 9, 2011
PROJECT NO. 121103	AutoCAD 2007 121103Site11.DWG

DRAWING NO. **11**

REV. NO. **0**

SHEET **1** OF **1**



LEGEND

- ERM-MW19 MONITORING WELLS
- RAIL ROAD
- PROPERTY BOUNDARY
- SANITARY SEWER LINE

NOTE

MW-12 WAS CONVERTED TO SVE-4 IN 4-2004



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

VOLUNTARY COMPLIANCE STATUS REPORT			NOT FOR CONSTRUCTION	MONITORING WELL LOCATIONS AND CROSS SECTION LOCATION		DRAWING NO. 12
FORMER DICKIES INDUSTRIAL SERVICES, INC. COLLEGE PARK, GEORGIA				REV. NO. 0		
DRAWN BY S. VIZUETE	PROJECT ENGINEER S. THOMPSON	SCALE AS NOTED	DATE MARCH 22, 2011	PROJECT NO. 121103	AutoCAD 2007 121103Site12.DWG	SHEET 1 OF 1

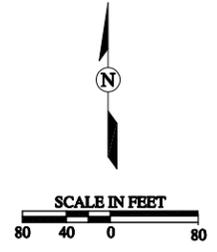
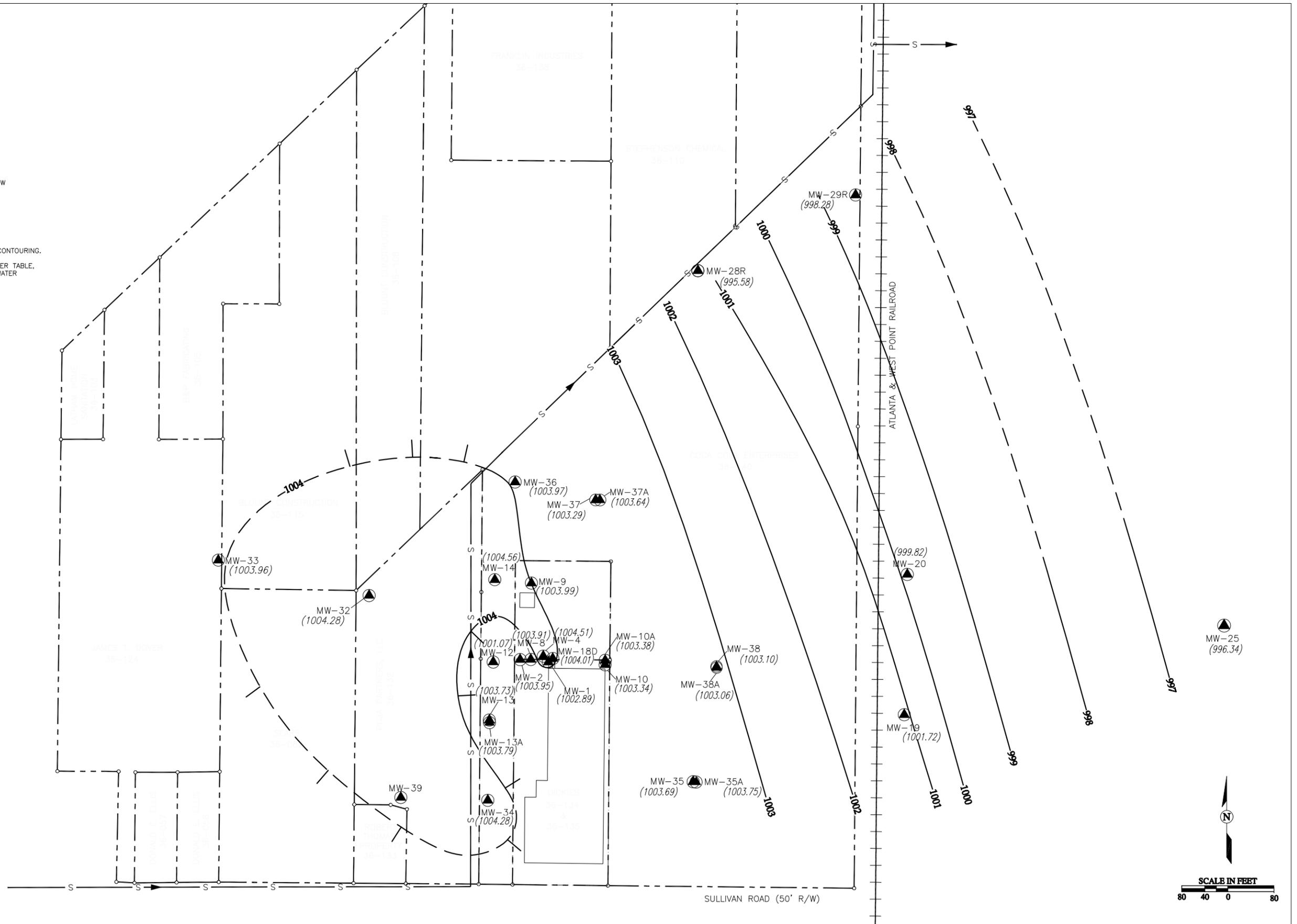
121103Site12.DWG 3/22/11 SPV

LEGEND

- ▲ ERM-MW-19 MONITORING WELLS
- +—+—+— RAIL ROAD
- - - - - PROPERTY BOUNDARY
- S— SANITARY SEWER LINE
- (1003.96) GROUND WATER ELEVATION
- 1003— GROUND WATER ELEVATION CONTOUR
- APPARENT DIRECTION OF GROUND WATER FLOW

NOTES

MW-1, MW-28-R, MW-37, AND MW-39 WERE NOT USED FOR CONTOURING.
 MW-28R AND MW-37 EXHIBITED LACTATE ON TOP OF THE WATER TABLE, WHICH WAS INJECTED PREVIOUSLY AS PART OF THE GROUND WATER REMEDIATION.



121103SiteF13-F20.DWG 3/22/11 SPV_REV

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

VOLUNTARY COMPLIANCE STATUS REPORT

FORMER DICKIES INDUSTRIAL SERVICES, INC. COLLEGE PARK, GEORGIA
 DRAWN BY S. VIZUETE PROJECT ENGINEER S. THOMPSON
 PROJECT SCIENTIST L. DORMAN PROJECT MANAGER S. THOMPSON



NOT FOR CONSTRUCTION

POTENTIOMETRIC SURFACE MAP - OCTOBER 2010

SCALE AS NOTED DATE MARCH 22, 2011
 PROJECT NO. 121103 AutoCAD 2007 121103SiteF13-F20.DWG

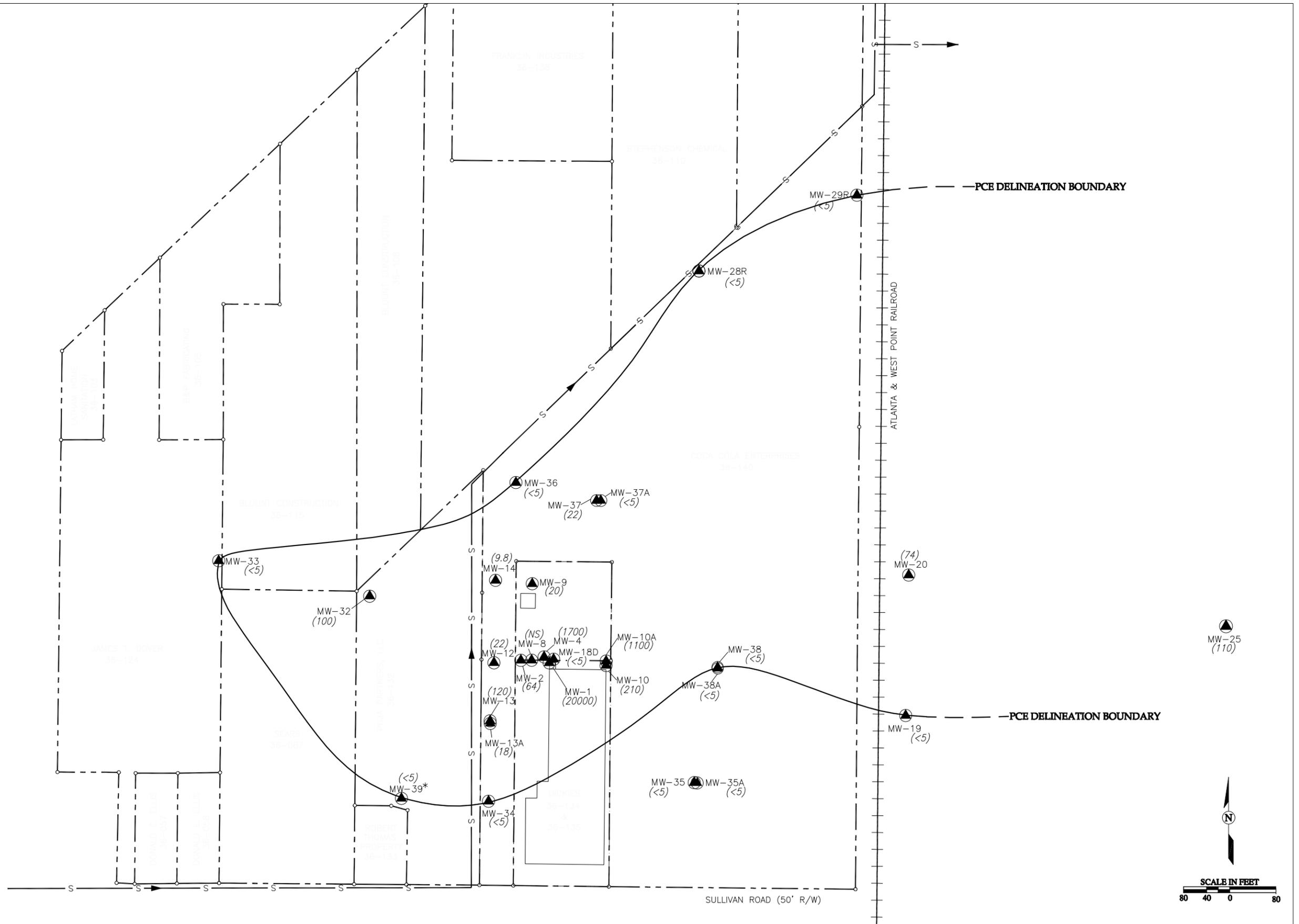
DRAWING NO.	13
REV. NO.	0
SHEET 1 OF 1	

LEGEND

- ▲ ERM-MW-19 MONITORING WELLS
- +—+—+— RAIL ROAD
- - - - - PROPERTY BOUNDARY
- S- SANITARY SEWER LINE
- - - - - PCE DELINEATION BOUNDARY

NOTES

MW-12 WAS CONVERTED TO SVE-4 IN 4-2004.
 GROUNDWATER SAMPLING RESULTS FROM OCTOBER 2010.
 RESULTS ARE SHOWN IN $\mu\text{g/L}$.
 *MW-39 GROUNDWATER RESULTS FROM MARCH 2011



121103SiteF13-F20.DWG 3/22/11 SPV_REV

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

VOLUNTARY COMPLIANCE STATUS REPORT

FORMER DICKIES INDUSTRIAL SERVICES, INC. COLLEGE PARK, GEORGIA
 DRAWN BY S. VIZUETE PROJECT ENGINEER S. THOMPSON
 PROJECT SCIENTIST L. DORMAN PROJECT MANAGER S. THOMPSON



NOT FOR CONSTRUCTION

TETRACHLOROETHENE IN GROUNDWATER

SCALE AS NOTED DATE MARCH 22, 2011
 PROJECT NO. 121103 AutoCAD 2007 121103SiteF13-F20.DWG

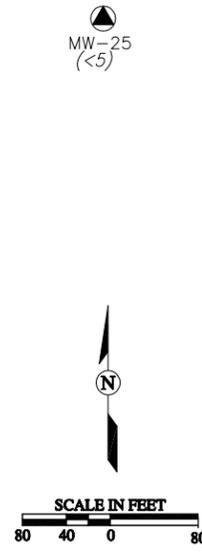
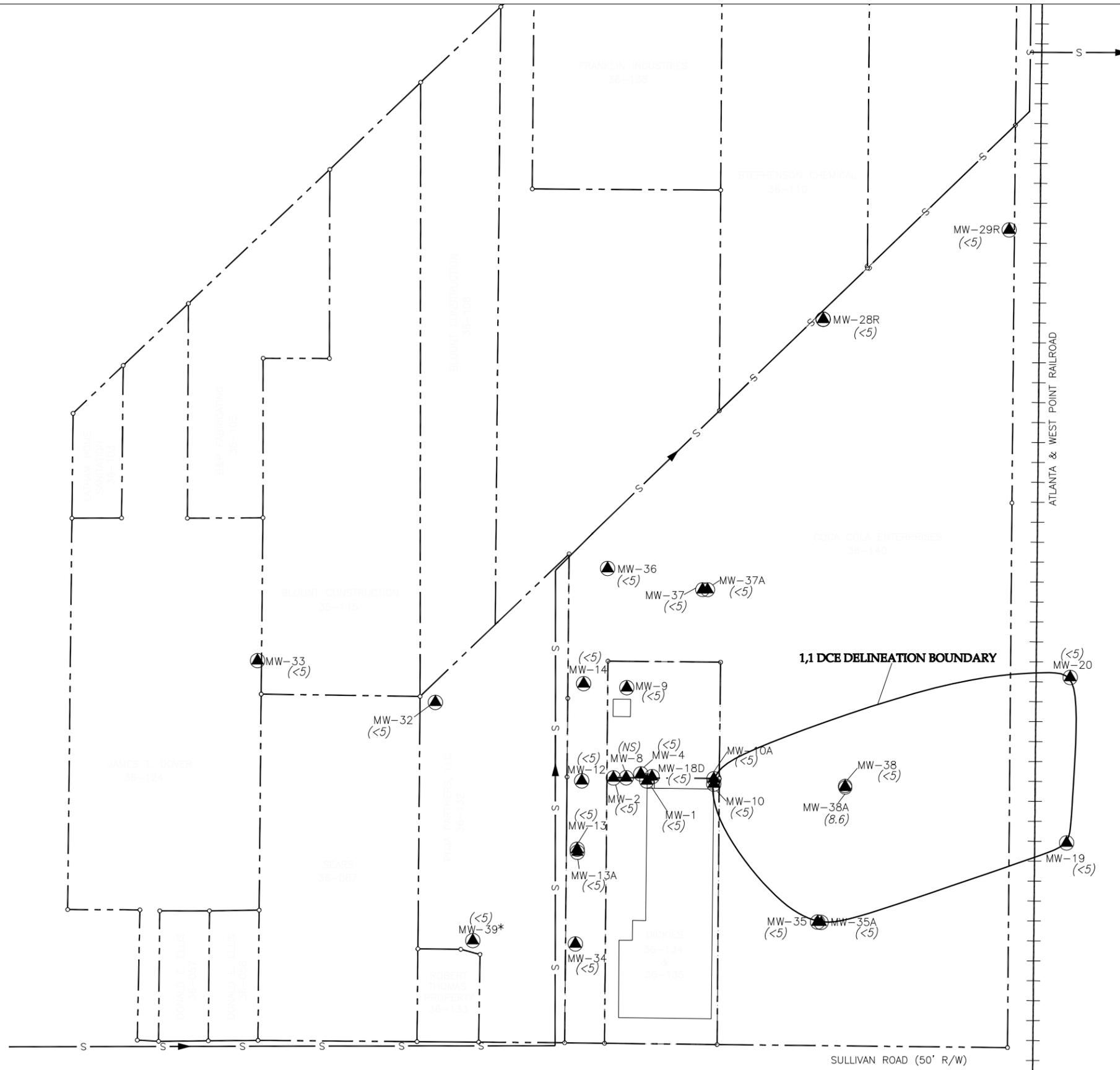
DRAWING NO.	14
REV. NO.	0
SHEET	1 OF 1

LEGEND

- ▲ ERM-MW-19 MONITORING WELLS
- +—+—+— RAIL ROAD
- - - - - PROPERTY BOUNDARY
- S- SANITARY SEWER LINE
- 1,1 DCE DELINEATION BOUNDARY

NOTES

MW-12 WAS CONVERTED TO SVE-4 IN 4-2004.
 GROUNDWATER SAMPLING RESULTS FROM OCTOBER 2010.
 RESULTS ARE SHOWN IN $\mu\text{g/L}$.
 *MW-39 GROUNDWATER RESULTS FROM MARCH 2011



121103SiteF13-F20.DWG 3/22/11 SPV_REV

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

VOLUNTARY COMPLIANCE STATUS REPORT

FORMER DICKIES INDUSTRIAL SERVICES, INC. COLLEGE PARK, GEORGIA
 DRAWN BY S. VIZUETE PROJECT ENGINEER S. THOMPSON
 PROJECT SCIENTIST L. DORMAN PROJECT MANAGER S. THOMPSON



NOT FOR CONSTRUCTION

1,1-DICHLOROETHENE IN GROUNDWATER

SCALE AS NOTED DATE MARCH 22, 2011
 PROJECT NO. 121103 AutoCAD 2007 121103SiteF13-F20.DWG

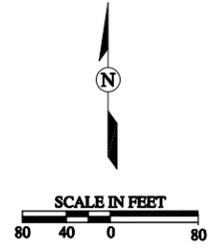
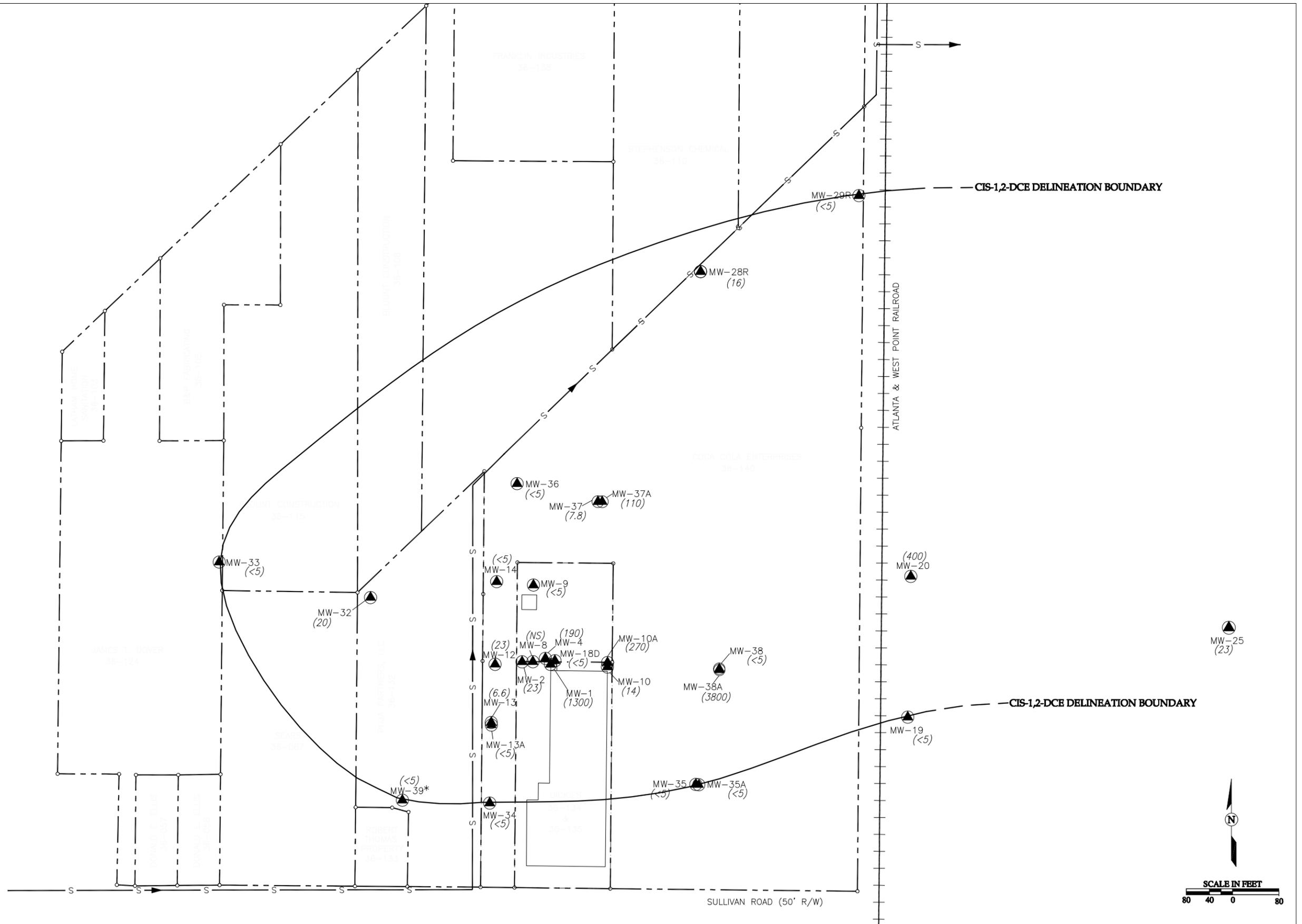
DRAWING NO.	16
REV. NO.	0
SHEET	1 OF 1

LEGEND

- ▲ ERM-MW-19 MONITORING WELLS
- +—+—+— RAIL ROAD
- - - - - PROPERTY BOUNDARY
- S — SANITARY SEWER LINE
- CIS-1,2-DCE DELINEATION BOUNDARY

NOTES

MW-12 WAS CONVERTED TO SVE-4 IN 4-2004.
 GROUNDWATER SAMPLING RESULTS FROM OCTOBER 2010.
 RESULTS ARE SHOWN IN $\mu\text{g/L}$.
 *MW-39 GROUNDWATER RESULTS FROM MARCH 2011



121103SiteF13-F20.DWG 3/22/11 SPV REV

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

VOLUNTARY COMPLIANCE STATUS REPORT

FORMER DICKIES INDUSTRIAL SERVICES, INC. COLLEGE PARK, GEORGIA
 DRAWN BY S. VIZUETE PROJECT ENGINEER S. THOMPSON
 PROJECT SCIENTIST L. DORMAN PROJECT MANAGER S. THOMPSON



NOT FOR CONSTRUCTION

CIS-1,2-DICHLOROETHENE IN GROUNDWATER

SCALE AS NOTED DATE MARCH 22, 2011
 PROJECT NO. 121103 AutoCAD 2007 121103SiteF13-F20.DWG

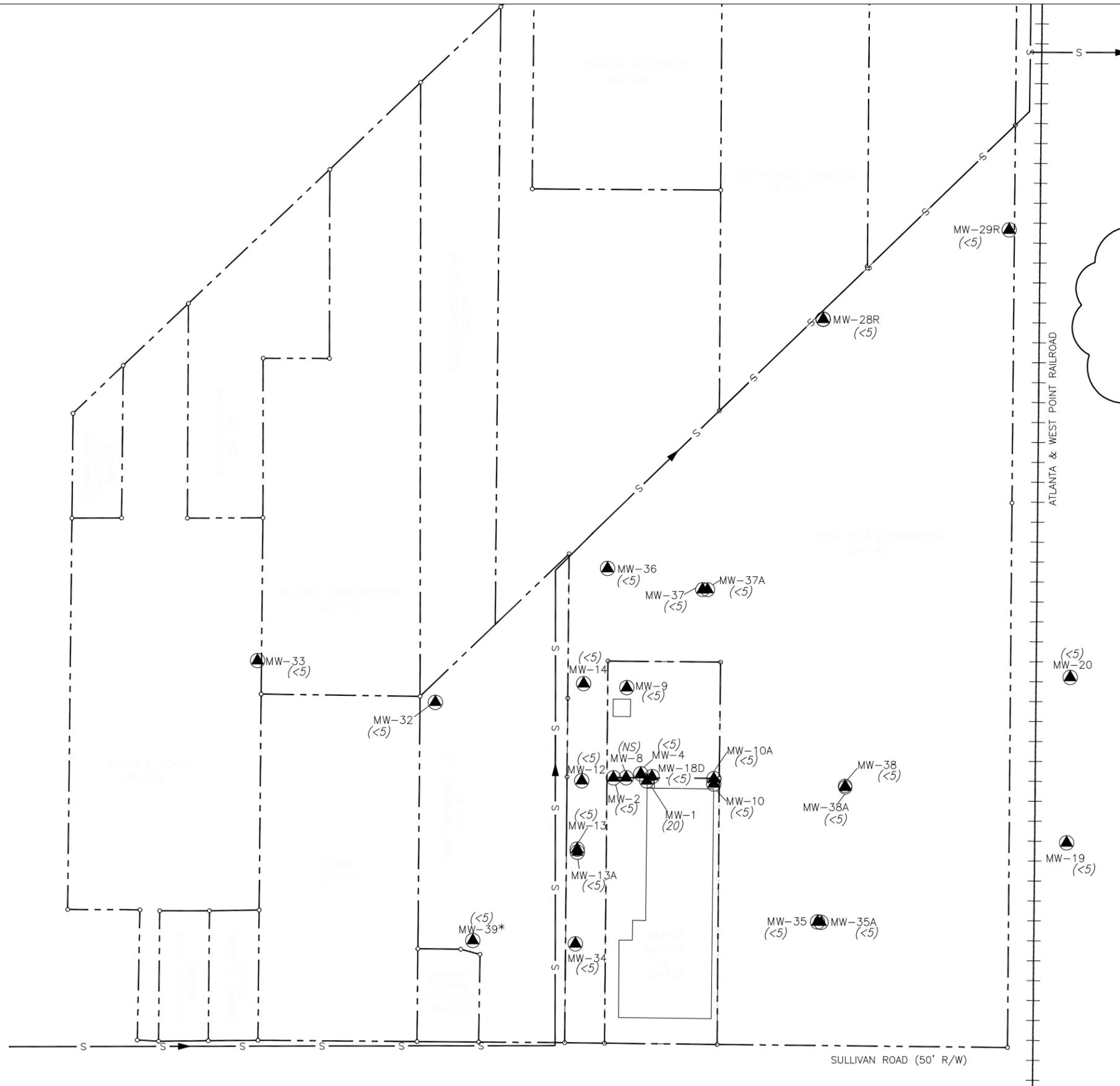
DRAWING NO.	17
REV. NO.	0
SHEET	1 OF 1

LEGEND

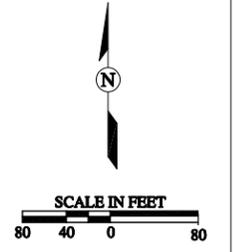
- ▲ ERM-MW-19 MONITORING WELLS
- +—+—+— RAIL ROAD
- - - - - PROPERTY BOUNDARY
- S— SANITARY SEWER LINE

NOTES

MW-12 WAS CONVERTED TO SVE-4 IN 4-2004.
 GROUNDWATER SAMPLING RESULTS FROM OCTOBER 2010.
 RESULTS ARE SHOWN IN $\mu\text{g/L}$.
 *MW-39 GROUNDWATER RESULTS FROM MARCH 2011



**GROUND WATER
 CONCENTRATIONS OF
 TRANS-1,2-DICHLOROETHENE ARE
 BELOW THE DELINEATION
 CONCENTRATION OF 100 $\mu\text{g/L}$.**



121103SiteF13-F20.DWG 3/22/11 SPV_REV

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

VOLUNTARY COMPLIANCE STATUS REPORT

FORMER DICKIES INDUSTRIAL SERVICES, INC. COLLEGE PARK, GEORGIA

DRAWN BY S. VIZUETE	PROJECT ENGINEER S. THOMPSON
PROJECT SCIENTIST L. DORMAN	PROJECT MANAGER S. THOMPSON



NOT
FOR
CONSTRUCTION

TRANS-1,2-DICHLOROETHENE IN GROUNDWATER

SCALE AS NOTED	DATE MARCH 22, 2011
PROJECT NO. 121103	AutoCAD 2007 121103SiteF13-F20.DWG

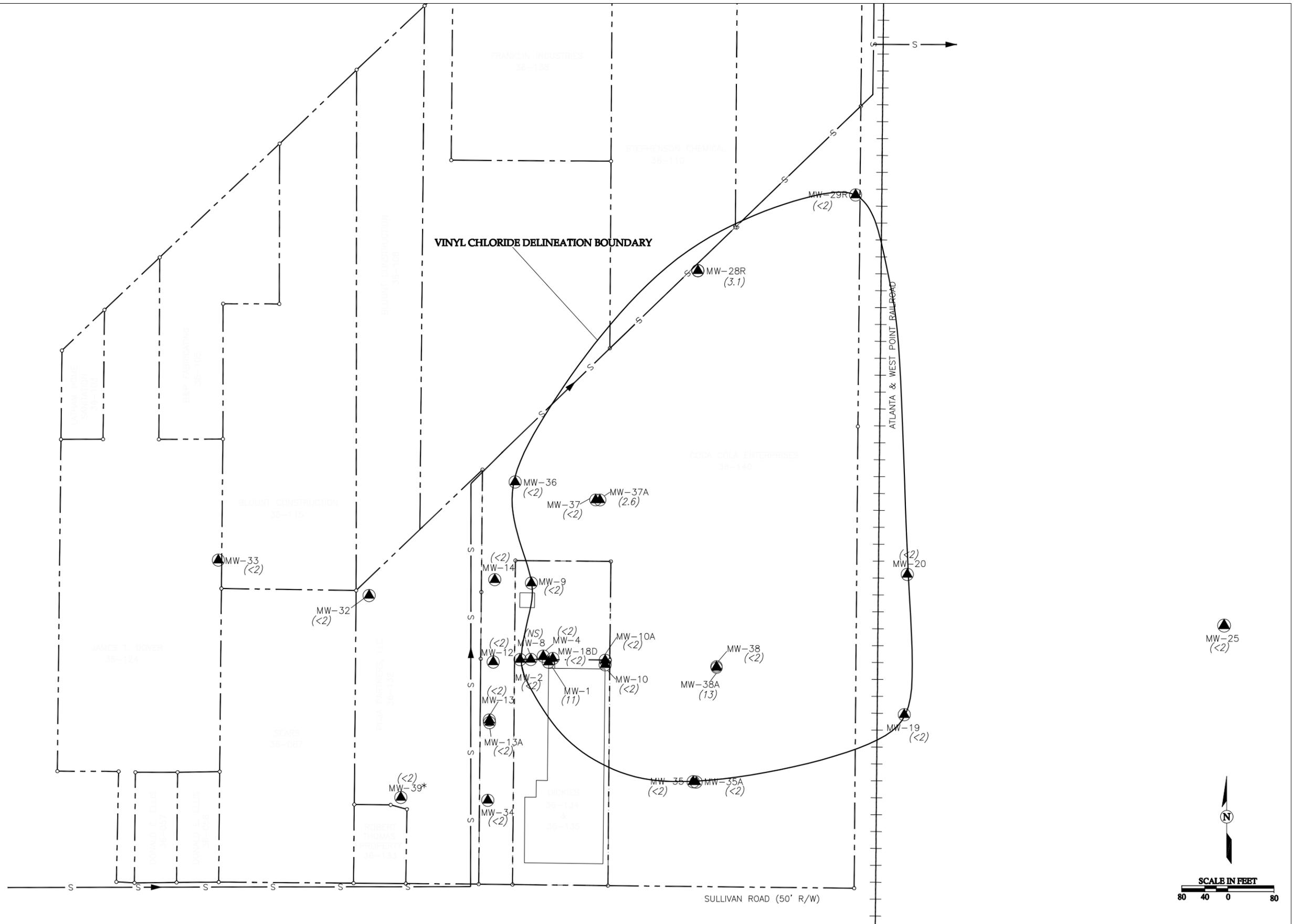
DRAWING NO. 18	REV. NO. 0
SHEET 1 OF 1	

LEGEND

- ▲ ERM-MW-19 MONITORING WELLS
- +—+—+— RAIL ROAD
- - - - - PROPERTY BOUNDARY
- S- SANITARY SEWER LINE
- VINYL CHLORIDE DELINEATION BOUNDARY

NOTES

MW-12 WAS CONVERTED TO SVE-4 IN 4-2004.
 GROUNDWATER SAMPLING RESULTS FROM OCTOBER 2010.
 RESULTS ARE SHOWN IN $\mu\text{g/L}$.
 *MW-39 GROUNDWATER RESULTS FROM MARCH 2011



121103SiteF13-F20.DWG 3/22/11 SPV REV

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

VOLUNTARY COMPLIANCE STATUS REPORT

FORMER DICKIES INDUSTRIAL SERVICES, INC. COLLEGE PARK, GEORGIA
 DRAWN BY S. VIZUETE PROJECT ENGINEER S. THOMPSON
 PROJECT SCIENTIST L. DORMAN PROJECT MANAGER S. THOMPSON



NOT FOR CONSTRUCTION

VINYL CHLORIDE IN GROUNDWATER

SCALE AS NOTED DATE MARCH 22, 2011
 PROJECT NO. 121103 AutoCAD 2007 121103SiteF13-F20.DWG

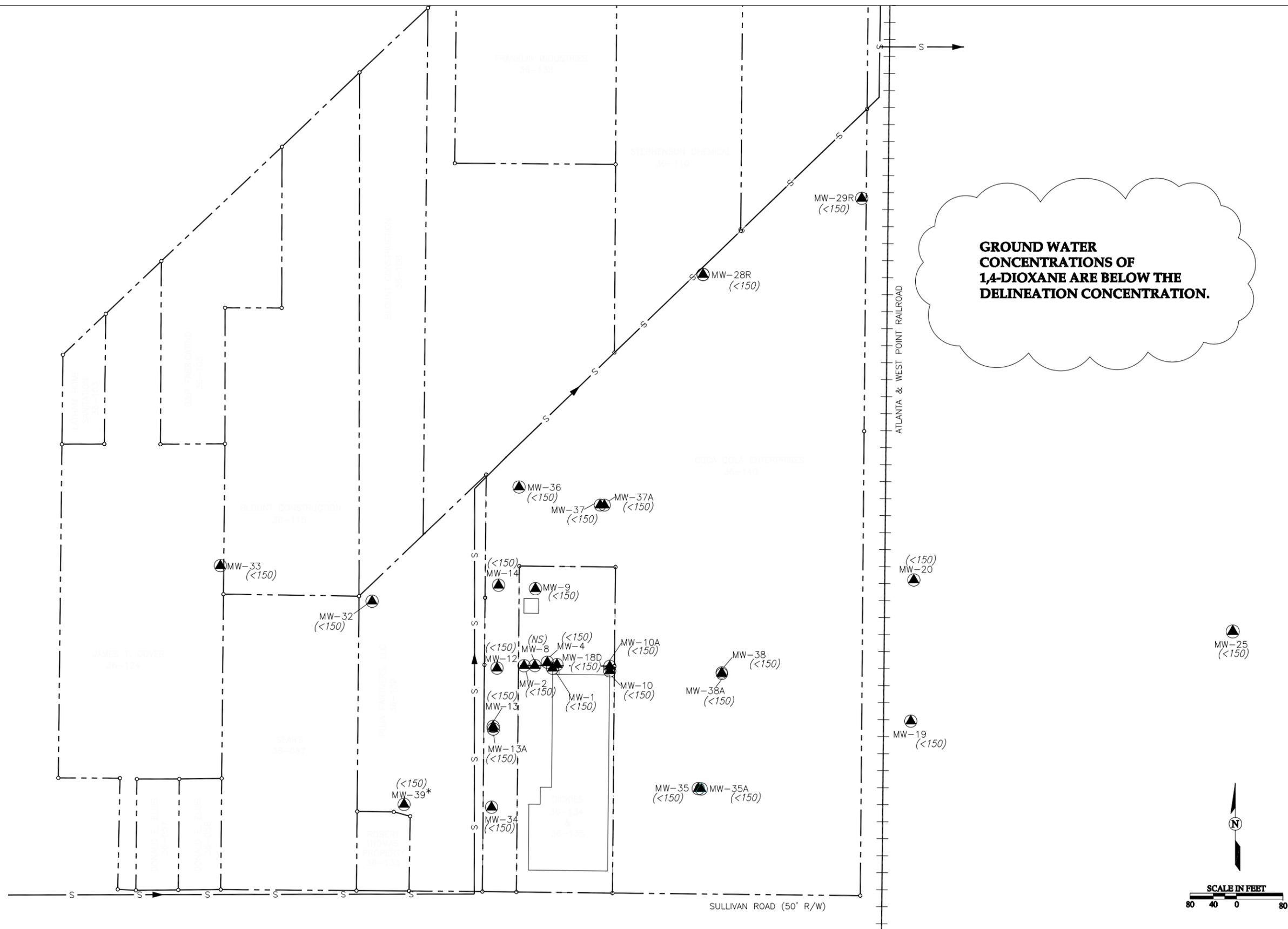
DRAWING NO.	19
REV. NO.	0
SHEET	1 OF 1

LEGEND

- ▲ ERM-MW-19 MONITORING WELLS
- +—+—+— RAIL ROAD
- - - - - PROPERTY BOUNDARY
- S— SANITARY SEWER LINE

NOTES

MW-12 WAS CONVERTED TO SVE-4 IN 4-2004.
 GROUNDWATER SAMPLING RESULTS FROM OCTOBER 2010.
 RESULTS ARE SHOWN IN $\mu\text{g/L}$.
 *MW-39 GROUNDWATER RESULTS FROM MARCH 2011



121103SiteF13-F20.DWG 3/22/11 SPV_REV

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

VOLUNTARY COMPLIANCE STATUS REPORT

FORMER DICKIES INDUSTRIAL SERVICES, INC. COLLEGE PARK, GEORGIA

DRAWN BY S. VIZUETE	PROJECT ENGINEER S. THOMPSON
PROJECT SCIENTIST L. DORMAN	PROJECT MANAGER S. THOMPSON



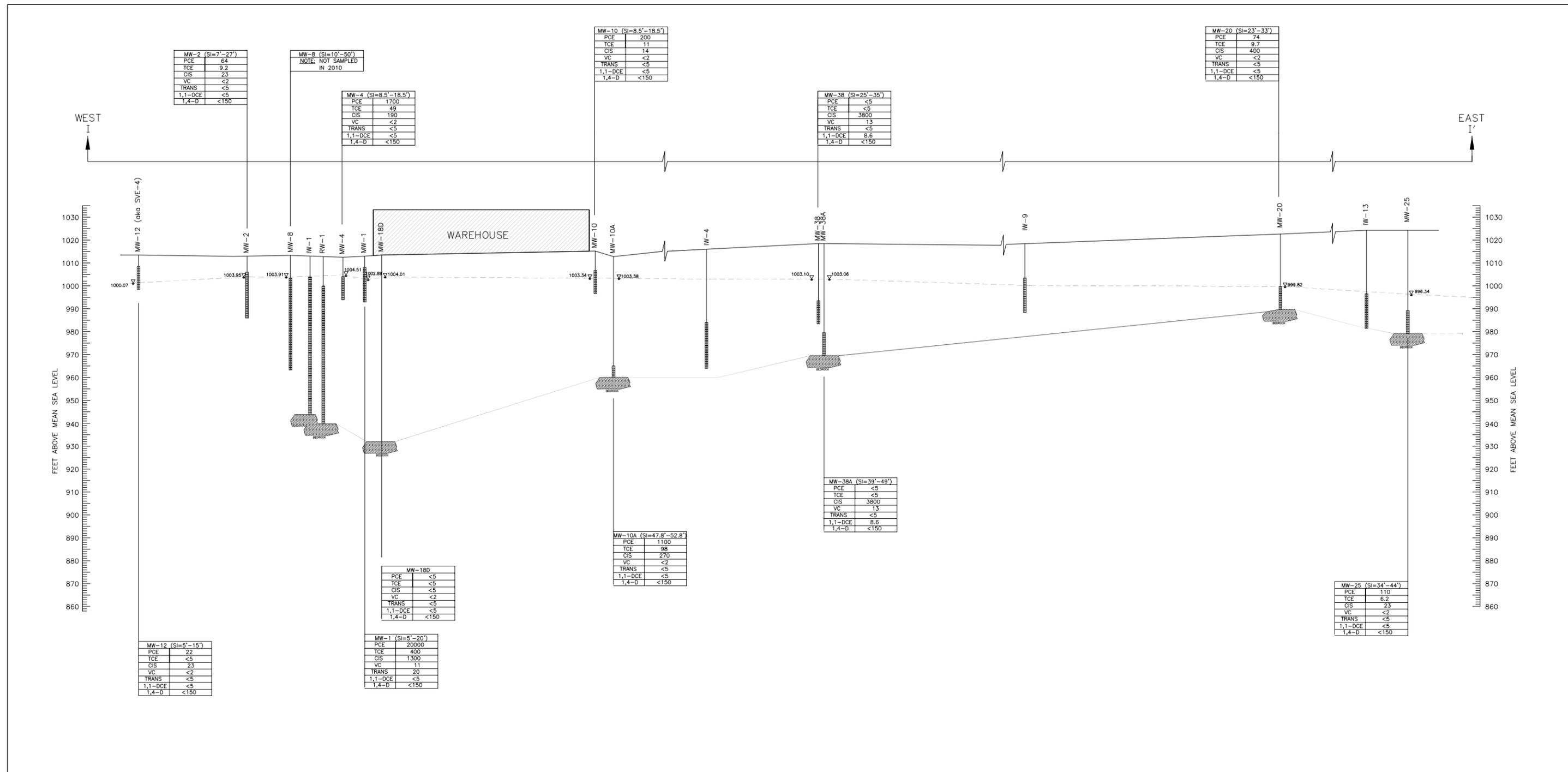
1,4 DIOXANE IN GROUNDWATER

SCALE AS NOTED	DATE MARCH 22, 2011
PROJECT NO. 121103	AutoCAD 2007 121103SiteF13-F20.DWG

DRAWING NO. 20

REV. NO. 0

SHEET 1 OF 1



MW-2 (SI=7'-27')	
PCE	64
TCE	9.2
CIS	23
VC	<2
TRANS	<5
1,1-DCE	<5
1,4-D	<150

MW-8 (SI=10'-50')
NOTE: NOT SAMPLED
IN 2010

MW-4 (SI=8.5'-18.5')	
PCE	1700
TCE	49
CIS	190
VC	<2
TRANS	<5
1,1-DCE	<5
1,4-D	<150

MW-10 (SI=8.5'-18.5')	
PCE	200
TCE	11
CIS	14
VC	<2
TRANS	<5
1,1-DCE	<5
1,4-D	<150

MW-38 (SI=25'-35')	
PCE	<5
TCE	<5
CIS	3800
VC	13
TRANS	<5
1,1-DCE	8.6
1,4-D	<150

MW-20 (SI=23'-33')	
PCE	74
TCE	9.7
CIS	400
VC	<2
TRANS	<5
1,1-DCE	<5
1,4-D	<150

MW-12 (SI=5'-15')	
PCE	22
TCE	<5
CIS	23
VC	<2
TRANS	<5
1,1-DCE	<5
1,4-D	<150

MW-18D	
PCE	<5
TCE	<5
CIS	<5
VC	<2
TRANS	<5
1,1-DCE	<5
1,4-D	<150

MW-10A (SI=47.8'-52.8')	
PCE	1100
TCE	98
CIS	270
VC	<2
TRANS	<5
1,1-DCE	<5
1,4-D	<150

MW-38A (SI=39'-49')	
PCE	<5
TCE	<5
CIS	3800
VC	13
TRANS	<5
1,1-DCE	8.6
1,4-D	<150

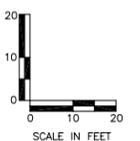
MW-25 (SI=34'-44')	
PCE	110
TCE	6.2
CIS	23
VC	<2
TRANS	<5
1,1-DCE	<5
1,4-D	<150

LEGEND
 1008.93 GROUND WATER ELEVATION (FT. MSL)

PCE	Tetrachloroethene
TCE	Trichloroethene
CIS	cis-1,2-Dichloroethene
VC	Vinyl Chloride
TRANS	trans-1,2-Dichloroethene
1,1-DCE	1,1-Dichloroethene
1,4-D	1,4-Dioxane

WELL SCREEN INTERVAL

- NOTES:
- GROUND WATER ELEVATIONS AND CONCENTRATIONS MEASURED IN OCTOBER 2010.
 - CONCENTRATIONS ARE IN $\mu\text{g/L}$.
 - SI = SCREEN INTERVAL.
 - DISTANCES BETWEEN WELLS PROJECTED ONTO STRAIGHT LINE CROSS-SECTION. SEE PLAN VIEWS FOR TRUE DISTANCES.



121103Site21.DWG_3/22/11 SPV_REV_3/28/11

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

VOLUNTARY COMPLIANCE STATUS REPORT

FORMER DICKIES INDUSTRIAL SERVICES, INC. COLLEGE PARK, GEORGIA

DRAWN BY S. VIZUETE PROJECT ENGINEER S. THOMPSON
 PROJECT SCIENTIST L. DORMAN PROJECT MANAGER S. THOMPSON



NOT FOR CONSTRUCTION

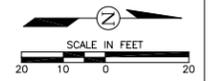
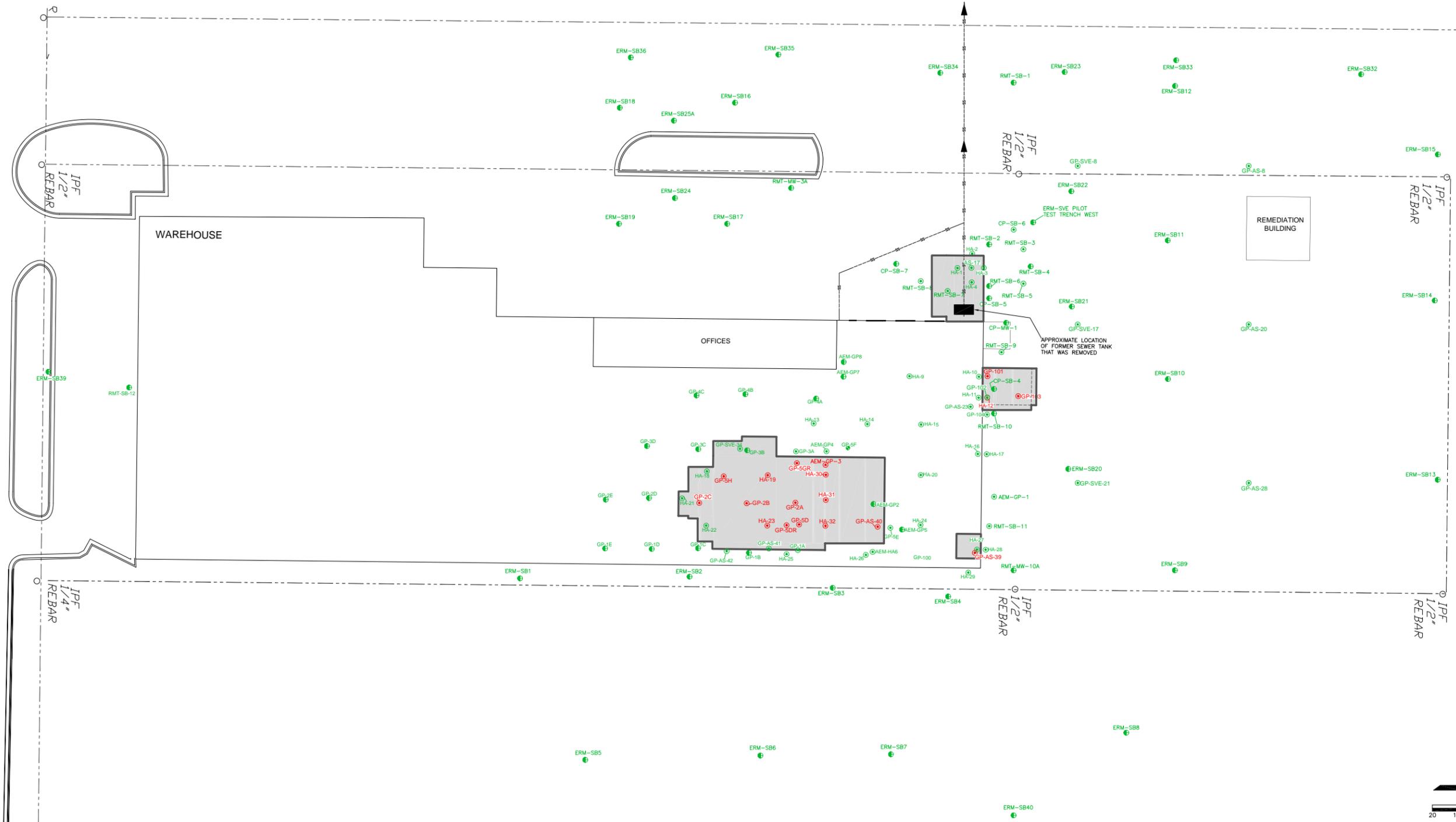
GEOLOGIC CROSS-SECTION I-I' WITH OCT 2010 GW DATA

SCALE AS NOTED DATE MARCH 22, 2011
 PROJECT NO. 121103 AutoCAD 2007 121103Site21.DWG

DRAWING NO.	21
REV. NO.	0
SHEET	1 OF 1

LEGEND

- HA-20 SAMPLE COLLECTED BETWEEN JANUARY 2000 AND JANUARY 2010 - BELOW ALL RRS
- GP-3D SAMPLE COLLECTED BETWEEN 1990 AND 1999 - BELOW ALL RRS
- PROPERTY LINE
- SS --- SEWER LINE
- HA-31 SAMPLE COLLECTED BETWEEN JANUARY 2000 AND JANUARY 2010 - EXCEEDED RRS FOR ONE OR MORE COMPOUNDS
- GP-3E SAMPLE COLLECTED BETWEEN 1990 AND 1999 - EXCEEDED RRS FOR ONE OR MORE COMPOUNDS
- RRS RISK REDUCTION STANDARDS
- █ FINAL EXCAVATION BOUNDARIES



121103Site22.DWG 3/15/11 SPV REV 3/25/11

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

VOLUNTARY COMPLIANCE STATUS REPORT			NOT FOR CONSTRUCTION	SOIL RRS EXCEEDANCE LOCATIONS AND EXCAVATION AREAS		DRAWING NO. 22
FORMER DICKIES INDUSTRIAL SERVICES, INC. COLLEGE PARK, GEORGIA				SCALE AS NOTED	DATE MARCH 15, 2011	PROJECT NO. 121103
DRAWN BY S. VIZUETE	PROJECT ENGINEER S. THOMPSON	DESIGN ENGINEER L. DORMAN	PROJECT MANAGER S. THOMPSON			SHEET 1 OF 1

LEGEND

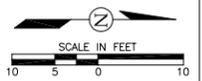
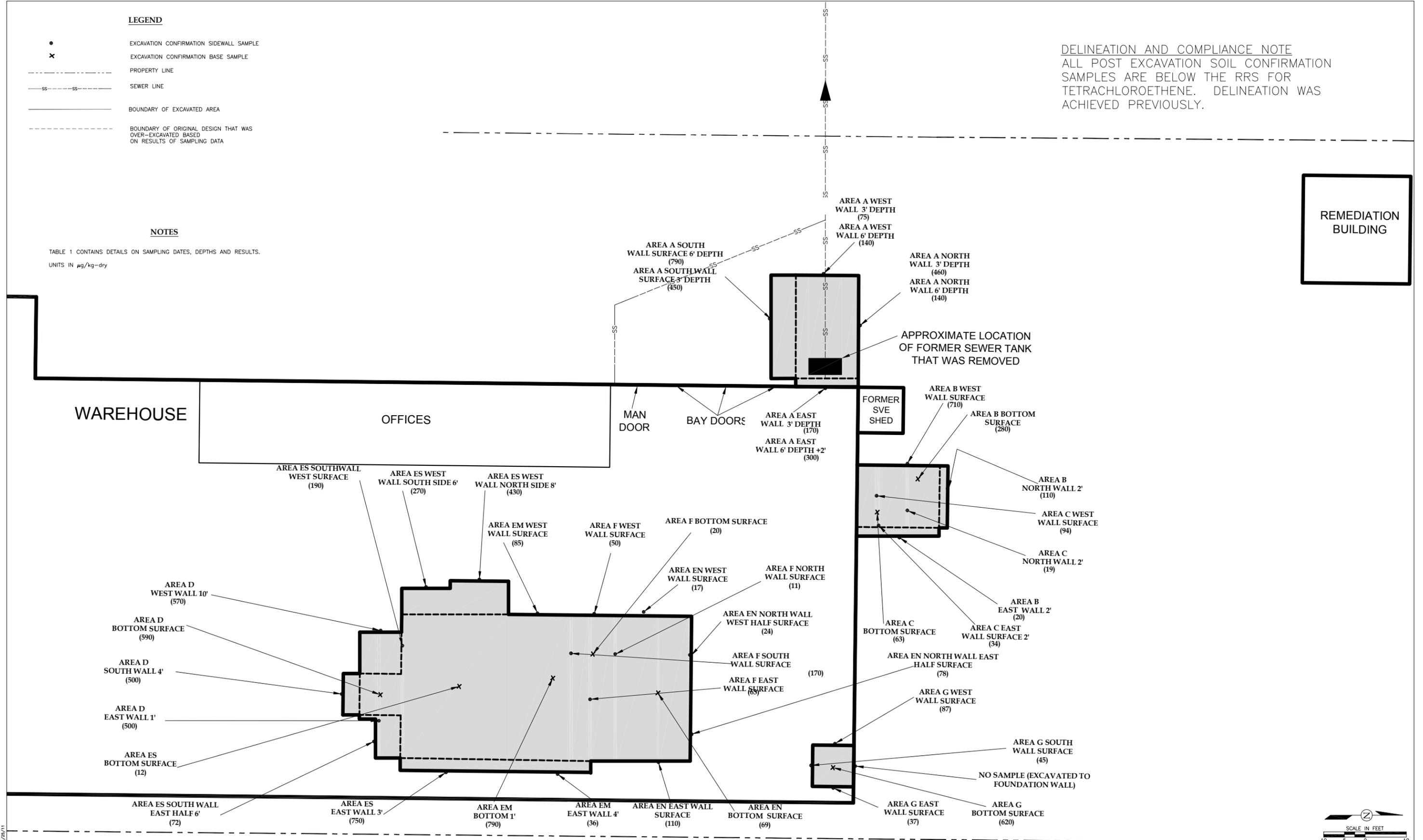
- EXCAVATION CONFIRMATION SIDEWALL SAMPLE
- x EXCAVATION CONFIRMATION BASE SAMPLE
- - - - - PROPERTY LINE
- - - - - SEWER LINE
- _____ BOUNDARY OF EXCAVATED AREA
- - - - - BOUNDARY OF ORIGINAL DESIGN THAT WAS OVER-EXCAVATED BASED ON RESULTS OF SAMPLING DATA

DELINEATION AND COMPLIANCE NOTE
 ALL POST EXCAVATION SOIL CONFIRMATION SAMPLES ARE BELOW THE RRS FOR TETRACHLOROETHENE. DELINEATION WAS ACHIEVED PREVIOUSLY.

NOTES

TABLE 1 CONTAINS DETAILS ON SAMPLING DATES, DEPTHS AND RESULTS.
 UNITS IN $\mu\text{g}/\text{kg-dry}$

REMEDIATION BUILDING



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

VOLUNTARY COMPLIANCE STATUS REPORT

FORMER DICKIES INDUSTRIAL SERVICES, INC. COLLEGE PARK, GEORGIA

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



**TETRACHLOROETHENE IN SOIL
 (POST EXCAVATION)**

SCALE AS NOTED	DATE MARCH 18, 2011
PROJECT NO. 121103	AutoCAD 2007 121103Site1.DWG

DRAWING NO. 23	REV. NO. 0
SHEET 1 OF 1	

121103Site1.DWG 3/18/11 SPV REV 3/25/11

LEGEND

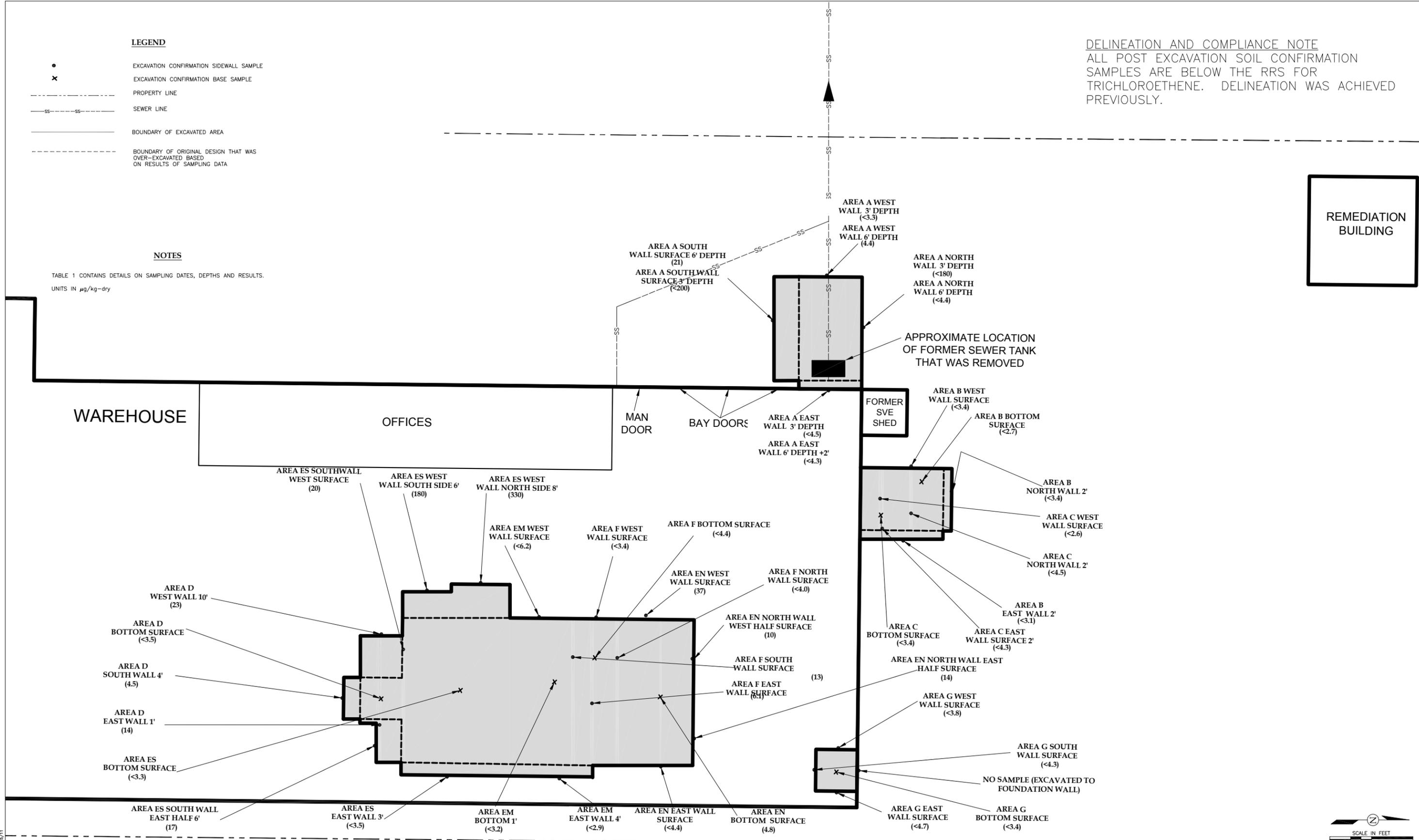
- EXCAVATION CONFIRMATION SIDEWALL SAMPLE
- x EXCAVATION CONFIRMATION BASE SAMPLE
- PROPERTY LINE
- SS--- SEWER LINE
- BOUNDARY OF EXCAVATED AREA
- BOUNDARY OF ORIGINAL DESIGN THAT WAS OVER-EXCAVATED BASED ON RESULTS OF SAMPLING DATA

DELINEATION AND COMPLIANCE NOTE
 ALL POST EXCAVATION SOIL CONFIRMATION SAMPLES ARE BELOW THE RRS FOR TRICHLOROETHENE. DELINEATION WAS ACHIEVED PREVIOUSLY.

REMEDIATION BUILDING

NOTES

TABLE 1 CONTAINS DETAILS ON SAMPLING DATES, DEPTHS AND RESULTS.
 UNITS IN µg/kg-dry



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

VOLUNTARY COMPLIANCE STATUS REPORT			NOT FOR CONSTRUCTION	TRICHLOROETHENE IN SOIL (POST EXCAVATION)		DRAWING NO. 24
FORMER DICKIES INDUSTRIAL SERVICES, INC. COLLEGE PARK, GEORGIA				SCALE AS NOTED		REV. NO. 0
DRAWN BY S. VIZUETE DESIGN ENGINEER L. DORMAN	PROJECT ENGINEER S. THOMPSON PROJECT MANAGER S. THOMPSON	DATE MARCH 18, 2011 AutoCAD 2007	PROJECT NO. 121103	SHEET 1 OF 1	DATE MARCH 18, 2011 AutoCAD 2007 121103Site1.DWG	SHEET 1 OF 1

121103Site1.DWG 3/18/11 SPV REV 3/25/11

LEGEND

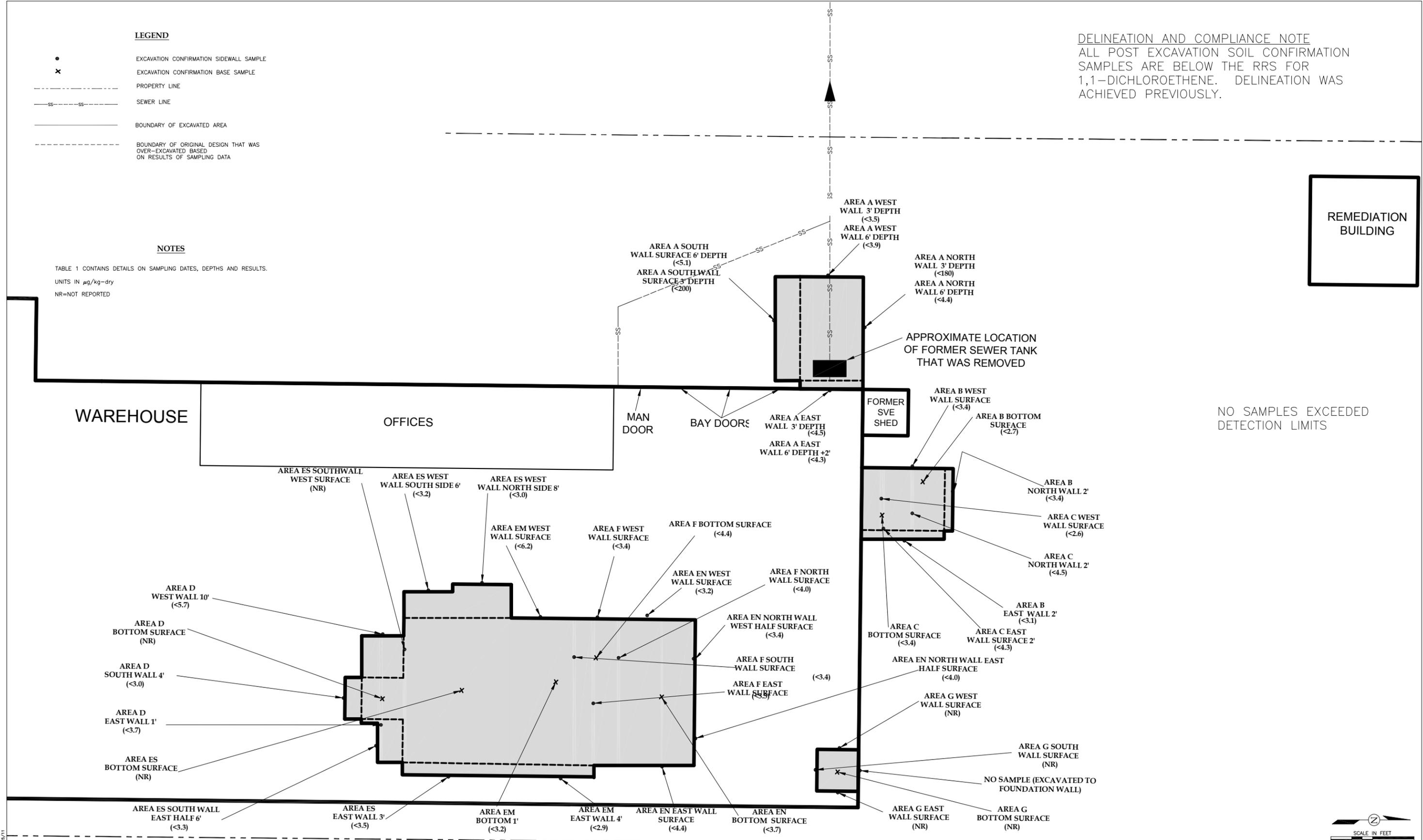
- EXCAVATION CONFIRMATION SIDEWALL SAMPLE
- x EXCAVATION CONFIRMATION BASE SAMPLE
- PROPERTY LINE
- SS--- SEWER LINE
- BOUNDARY OF EXCAVATED AREA
- BOUNDARY OF ORIGINAL DESIGN THAT WAS OVER-EXCAVATED BASED ON RESULTS OF SAMPLING DATA

NOTES

TABLE 1 CONTAINS DETAILS ON SAMPLING DATES, DEPTHS AND RESULTS.
 UNITS IN $\mu\text{g}/\text{kg-dry}$
 NR=NOT REPORTED

DELINEATION AND COMPLIANCE NOTE
 ALL POST EXCAVATION SOIL CONFIRMATION SAMPLES ARE BELOW THE RRS FOR 1,1-DICHLOROETHENE. DELINEATION WAS ACHIEVED PREVIOUSLY.

REMEDIATION BUILDING



NO SAMPLES EXCEEDED DETECTION LIMITS



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

VOLUNTARY COMPLIANCE STATUS REPORT			NOT FOR CONSTRUCTION	1,1-DICHLOROETHENE IN SOIL (POST EXCAVATION)		DRAWING NO. 25
FORMER DICKIES INDUSTRIAL SERVICES, INC. COLLEGE PARK, GEORGIA				REV. NO. 0		
DRAWN BY S. VIZUETE DESIGN ENGINEER L. DORMAN	PROJECT ENGINEER S. THOMPSON PROJECT MANAGER S. THOMPSON	SCALE AS NOTED PROJECT NO. 121103	DATE MARCH 18, 2011 AutoCAD 2007 121103Site1.DWG	SHEET 1 OF 1		

121103Site1.DWG 3/18/11 SPV REV 3/25/11

LEGEND

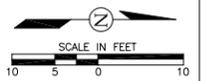
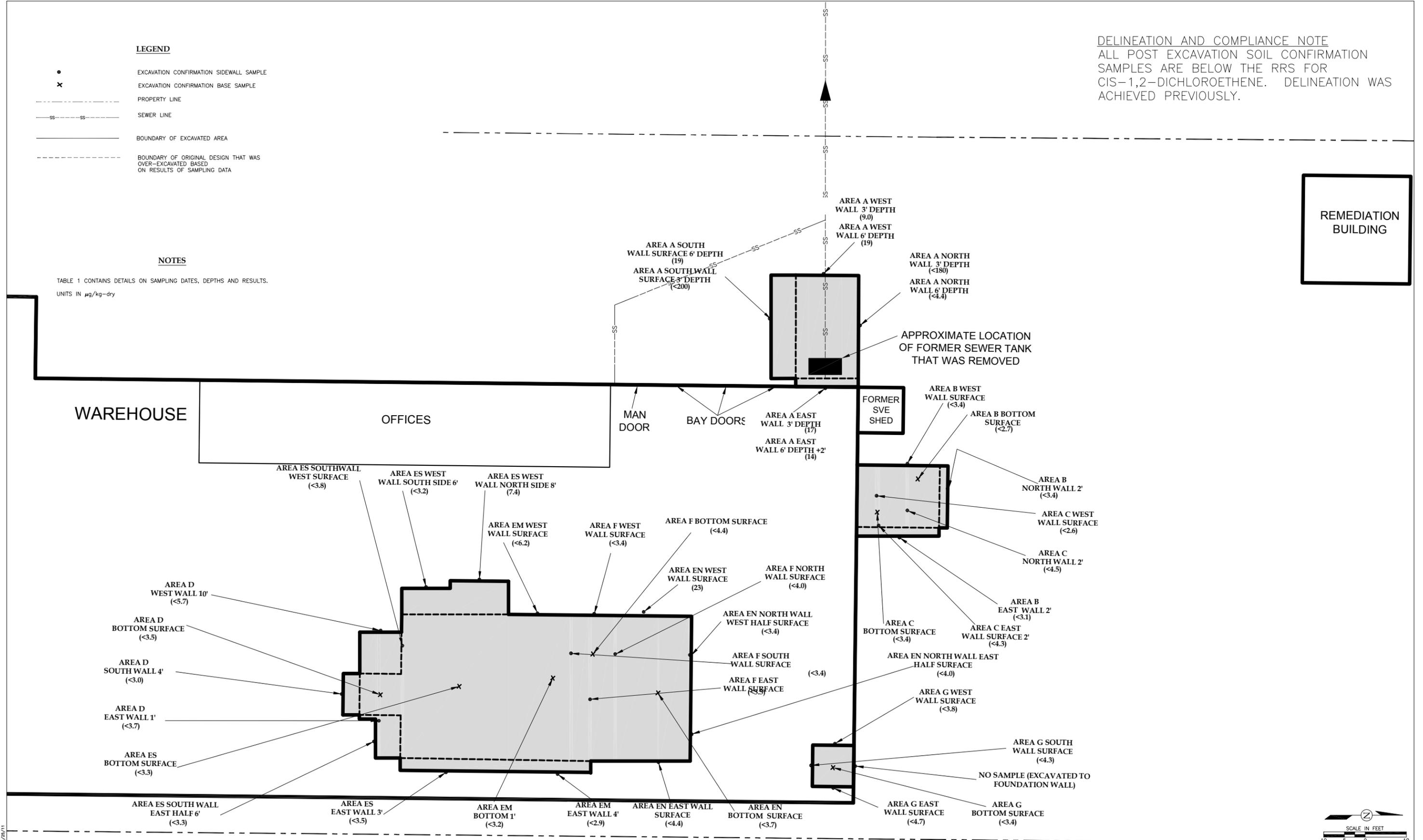
- EXCAVATION CONFIRMATION SIDEWALL SAMPLE
- x EXCAVATION CONFIRMATION BASE SAMPLE
- PROPERTY LINE
- SS --- SEWER LINE
- BOUNDARY OF EXCAVATED AREA
- BOUNDARY OF ORIGINAL DESIGN THAT WAS OVER-EXCAVATED BASED ON RESULTS OF SAMPLING DATA

NOTES

TABLE 1 CONTAINS DETAILS ON SAMPLING DATES, DEPTHS AND RESULTS.
UNITS IN $\mu\text{g}/\text{kg-dry}$

DELINEATION AND COMPLIANCE NOTE
ALL POST EXCAVATION SOIL CONFIRMATION SAMPLES ARE BELOW THE RRS FOR CIS-1,2-DICHLOROETHENE. DELINEATION WAS ACHIEVED PREVIOUSLY.

REMEDIATION BUILDING



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

VOLUNTARY COMPLIANCE STATUS REPORT

FORMER DICKIES INDUSTRIAL SERVICES, INC. COLLEGE PARK, GEORGIA

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



**CIS-1,2-DICHLOROETHENE IN SOIL
(POST EXCAVATION)**

SCALE AS NOTED	DATE MARCH 18, 2011
PROJECT NO. 121103	AutoCAD 2007 121103Site1.DWG

DRAWING NO. 26	REV. NO. 0
SHEET 1 OF 1	

121103Site1.DWG 3/18/11 SPV REV 3/25/11

LEGEND

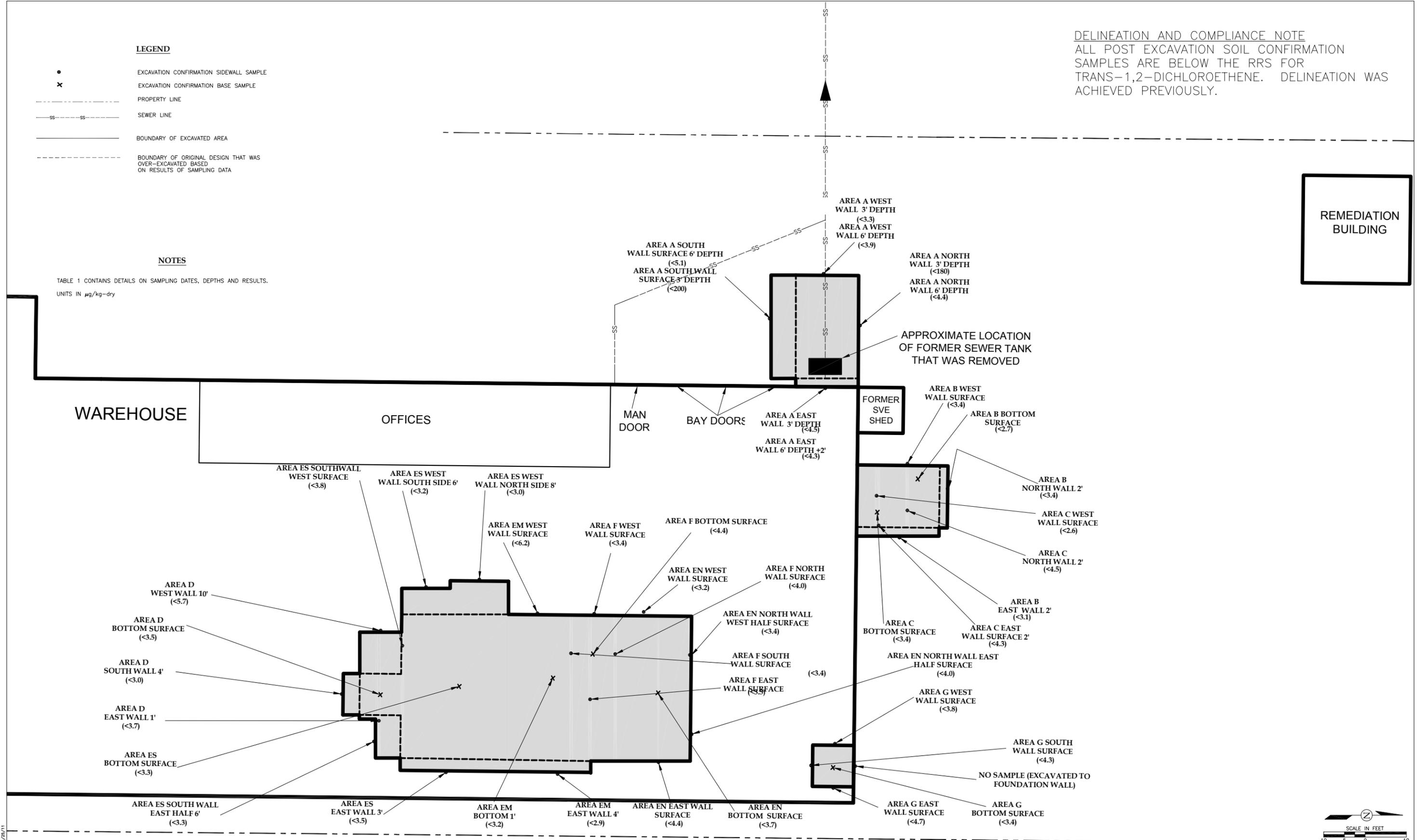
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- x EXCAVATION CONFIRMATION BASE SAMPLE
- PROPERTY LINE
- SS --- SEWER LINE
- BOUNDARY OF EXCAVATED AREA
- BOUNDARY OF ORIGINAL DESIGN THAT WAS OVER-EXCAVATED BASED ON RESULTS OF SAMPLING DATA

NOTES

TABLE 1 CONTAINS DETAILS ON SAMPLING DATES, DEPTHS AND RESULTS.
UNITS IN $\mu\text{g}/\text{kg-dry}$

DELINEATION AND COMPLIANCE NOTE
ALL POST EXCAVATION SOIL CONFIRMATION SAMPLES ARE BELOW THE RRS FOR TRANS-1,2-DICHLOROETHENE. DELINEATION WAS ACHIEVED PREVIOUSLY.

REMEDIATION BUILDING



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

VOLUNTARY COMPLIANCE STATUS REPORT

FORMER DICKIES INDUSTRIAL SERVICES, INC. COLLEGE PARK, GEORGIA

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



**TRANS-1,2-DICHLOROETHENE IN SOIL
(POST EXCAVATION)**

SCALE AS NOTED DATE MARCH 18, 2011

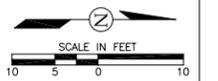
PROJECT NO. 121103 AutoCAD 2007 121103Site1.DWG

DRAWING NO. **27**

REV. NO. **0**

SHEET **1** OF **1**

121103Site1.DWG 3/18/11 SPV REV 3/25/11



LEGEND

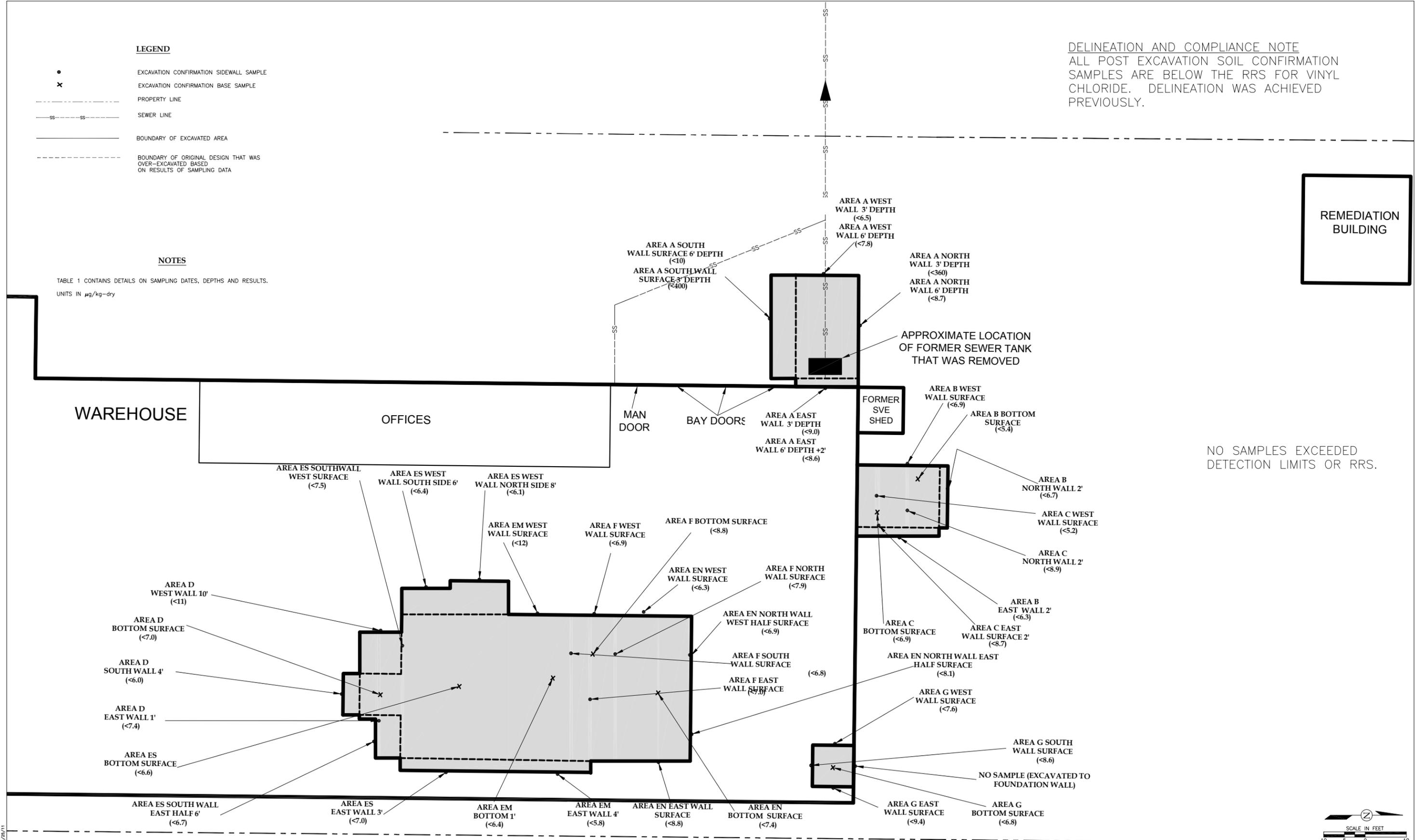
- EXCAVATION CONFIRMATION SIDEWALL SAMPLE
- x EXCAVATION CONFIRMATION BASE SAMPLE
- PROPERTY LINE
- SS --- SEWER LINE
- BOUNDARY OF EXCAVATED AREA
- BOUNDARY OF ORIGINAL DESIGN THAT WAS OVER-EXCAVATED BASED ON RESULTS OF SAMPLING DATA

NOTES

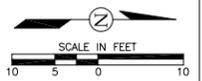
TABLE 1 CONTAINS DETAILS ON SAMPLING DATES, DEPTHS AND RESULTS.
UNITS IN $\mu\text{g}/\text{kg-dry}$

DELINEATION AND COMPLIANCE NOTE
ALL POST EXCAVATION SOIL CONFIRMATION SAMPLES ARE BELOW THE RRS FOR VINYL CHLORIDE. DELINEATION WAS ACHIEVED PREVIOUSLY.

REMEDIATION BUILDING



NO SAMPLES EXCEEDED DETECTION LIMITS OR RRS.



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

VOLUNTARY COMPLIANCE STATUS REPORT			NOT FOR CONSTRUCTION	VINYL CHLORIDE IN SOIL (POST EXCAVATION)		DRAWING NO. 28
FORMER DICKIES INDUSTRIAL SERVICES, INC. COLLEGE PARK, GEORGIA				REV. NO. 0		
DRAWN BY S. VIZUETE DESIGN ENGINEER L. DORMAN	PROJECT ENGINEER S. THOMPSON PROJECT MANAGER S. THOMPSON	SCALE AS NOTED PROJECT NO. 121103	DATE MARCH 18, 2011 AutoCAD 2007 121103Site1.DWG	SHEET 1 OF 1		

121103Site1.DWG 3/18/11 SPV REV 3/25/11

LEGEND

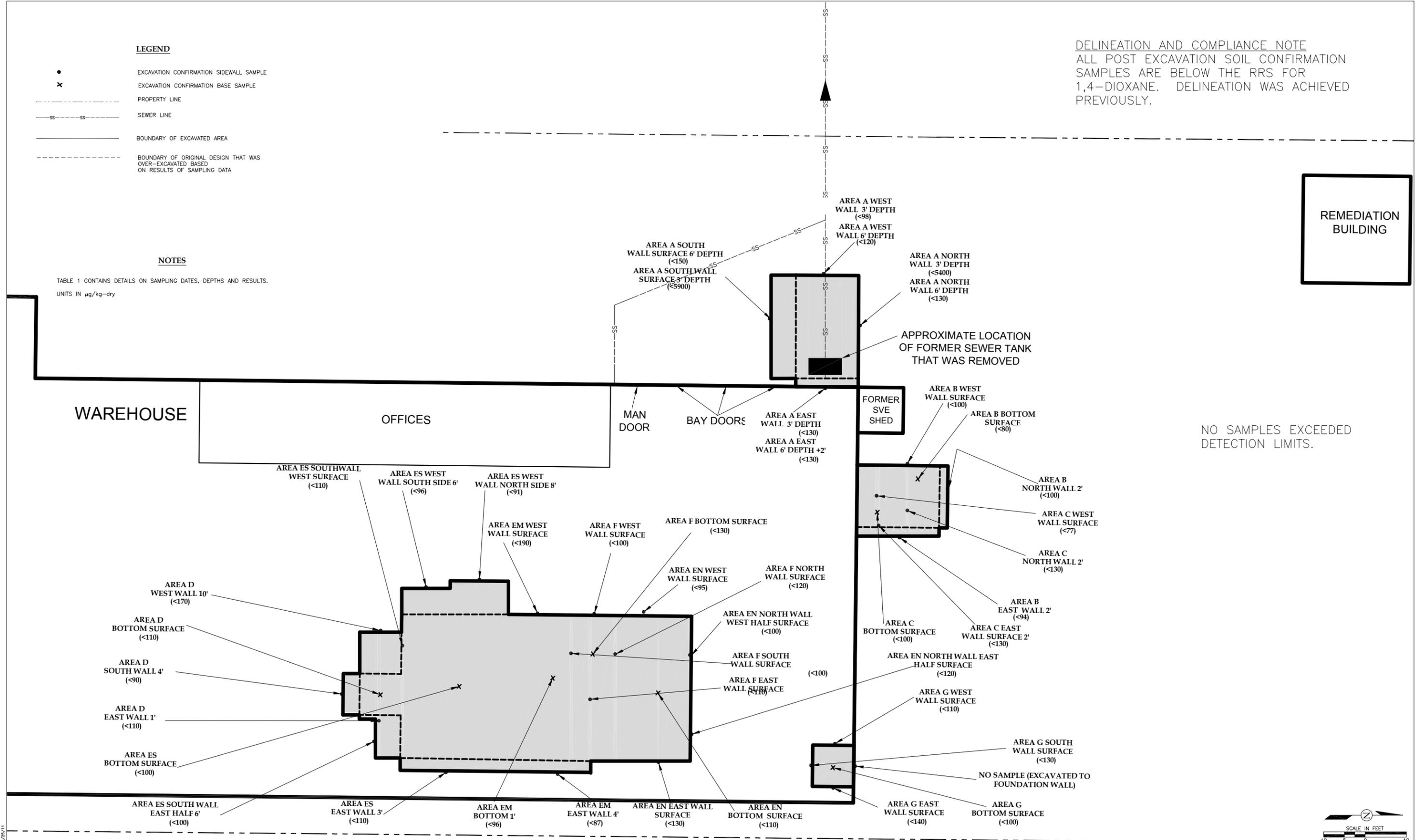
- EXCAVATION CONFIRMATION SIDEWALL SAMPLE
- ✕ EXCAVATION CONFIRMATION BASE SAMPLE
- PROPERTY LINE
- SS --- SEWER LINE
- BOUNDARY OF EXCAVATED AREA
- BOUNDARY OF ORIGINAL DESIGN THAT WAS OVER-EXCAVATED BASED ON RESULTS OF SAMPLING DATA

NOTES

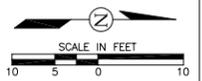
TABLE 1 CONTAINS DETAILS ON SAMPLING DATES, DEPTHS AND RESULTS.
 UNITS IN $\mu\text{g}/\text{kg-dry}$

DELINEATION AND COMPLIANCE NOTE
 ALL POST EXCAVATION SOIL CONFIRMATION SAMPLES ARE BELOW THE RRS FOR 1,4-DIOXANE. DELINEATION WAS ACHIEVED PREVIOUSLY.

REMEDIATION BUILDING



NO SAMPLES EXCEEDED DETECTION LIMITS.



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

VOLUNTARY COMPLIANCE STATUS REPORT

FORMER DICKIES INDUSTRIAL SERVICES, INC. COLLEGE PARK, GEORGIA

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



**1,4-DIOXANE IN SOIL
(POST EXCAVATION)**

SCALE AS NOTED DATE MARCH 18, 2011

PROJECT NO. 121103 AutoCAD 2007 121103Site1.DWG

DRAWING NO. **29**

REV. NO. **0**

SHEET **1** OF **1**

121103Site1.DWG 3/18/11 SPV REV 3/25/11

LEGEND

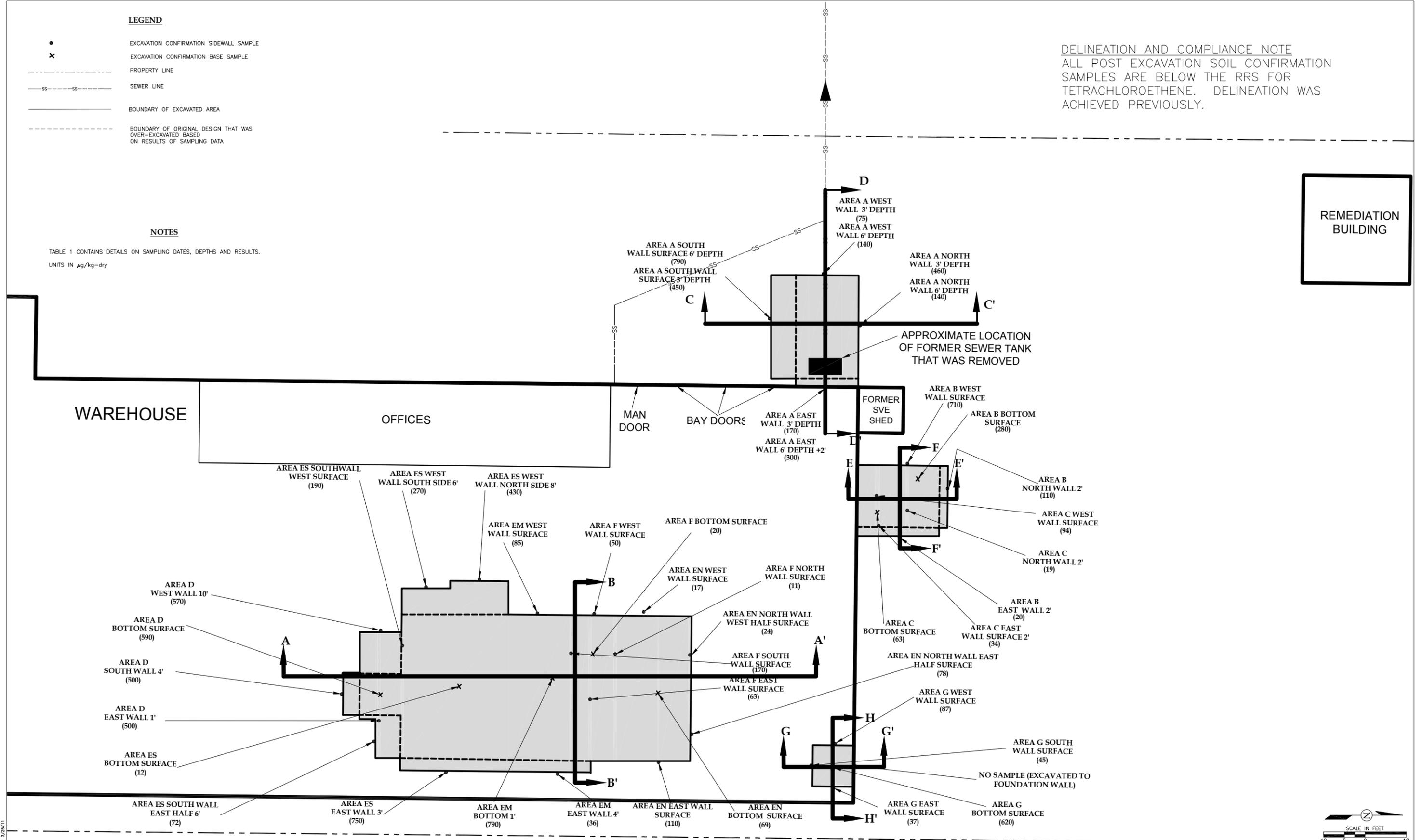
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- x EXCAVATION CONFIRMATION BASE SAMPLE
- - - - - PROPERTY LINE
- - - - - SEWER LINE
- _____ BOUNDARY OF EXCAVATED AREA
- - - - - BOUNDARY OF ORIGINAL DESIGN THAT WAS OVER-EXCAVATED BASED ON RESULTS OF SAMPLING DATA

DELINEATION AND COMPLIANCE NOTE
 ALL POST EXCAVATION SOIL CONFIRMATION
 SAMPLES ARE BELOW THE RRS FOR
 TETRACHLOROETHENE. DELINEATION WAS
 ACHIEVED PREVIOUSLY.

NOTES

TABLE 1 CONTAINS DETAILS ON SAMPLING DATES, DEPTHS AND RESULTS.
 UNITS IN $\mu\text{g}/\text{kg-dry}$

**REMEDIATION
BUILDING**



121103Site1.DWG 3/18/11 SPV REV 5/25/11

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

VOLUNTARY COMPLIANCE STATUS REPORT

FORMER DICKIES INDUSTRIAL SERVICES, INC. COLLEGE PARK, GEORGIA

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



NOT
FOR
CONSTRUCTION

**SOIL CROSS SECTION LOCATIONS -
WITH PCE DATA SHOWN
(POST EXCAVATION)**

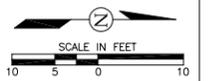
SCALE AS NOTED DATE MARCH 18, 2011

PROJECT NO. 1211103 AutoCAD 2007 1211103Site1.DWG

DRAWING NO.
30

REV. NO.
0

SHEET **1** OF **1**

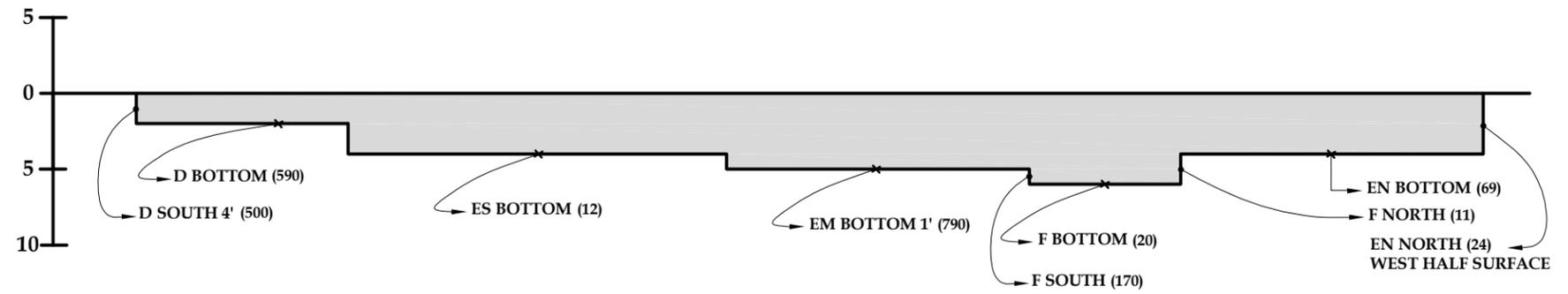


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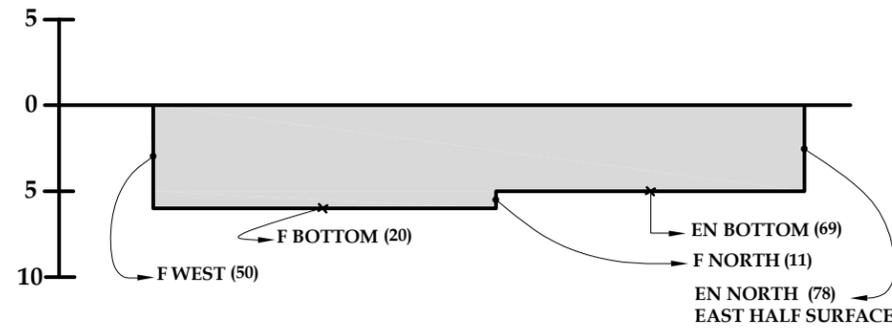
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- x EXCAVATION CONFIRMATION BASE SAMPLE
- WATER TABLE ELEVATION
- ▨ SUBSURFACE PORTION OF BUILDING FOUNDATION
- ▭ EXCAVATED AREA

NOTE:
UNITS IN µg/kg-dry

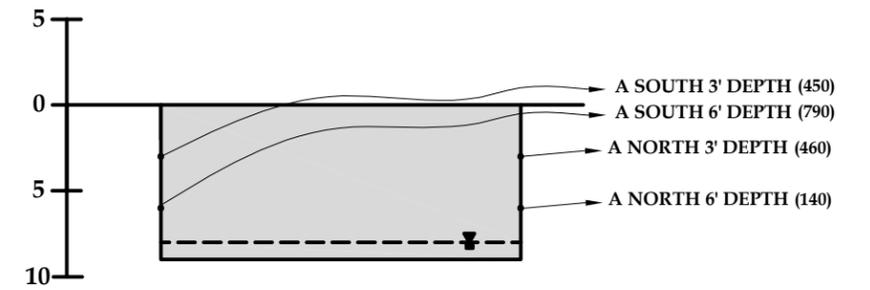
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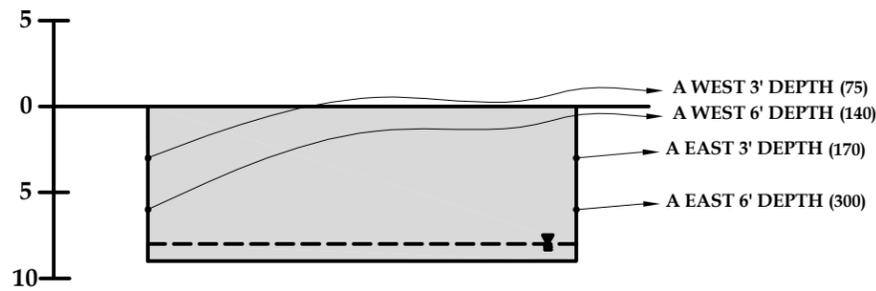
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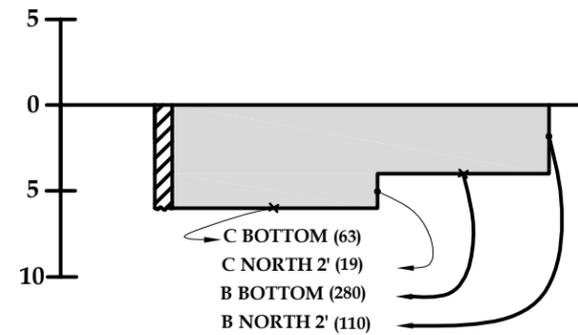
C-C'



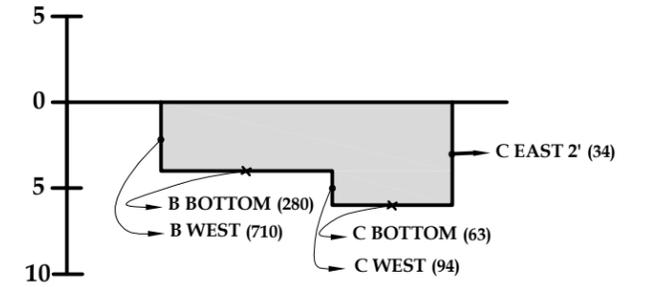
D-D'



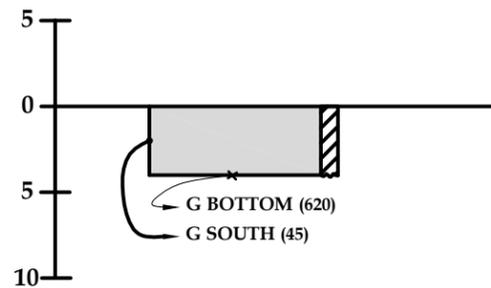
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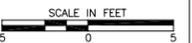
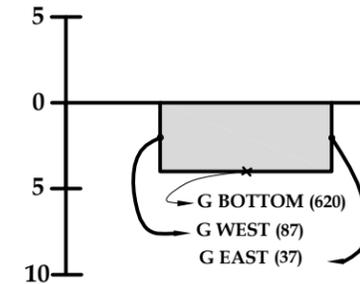
F-F'



G-G'



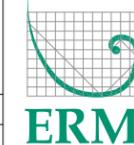
H-H'



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

VOLUNTARY COMPLIANCE STATUS REPORT

FORMER DICKIES INDUSTRIAL SERVICES, INC. COLLEGE PARK, GEORGIA
 DRAWN BY S. VIZUETE PROJECT ENGINEER S. THOMPSON
 DESIGN ENGINEER L. DORMAN PROJECT MANAGER S. THOMPSON



NOT FOR CONSTRUCTION

VERTICAL PROFILES OF TETRACHLOROETHENE IN SOIL (POST EXCAVATION)

SCALE 1:5 DATE MARCH 18, 2011
 PROJECT NO. 121103 AutoCAD 2007 121103Site1.DWG

DRAWING NO.

31

REV. NO.

0

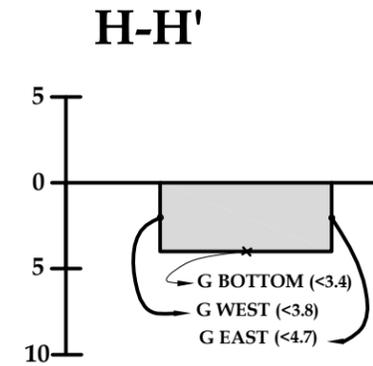
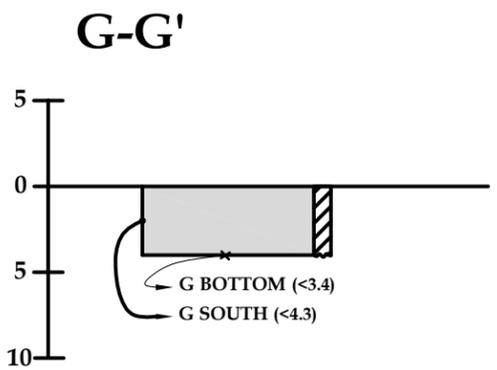
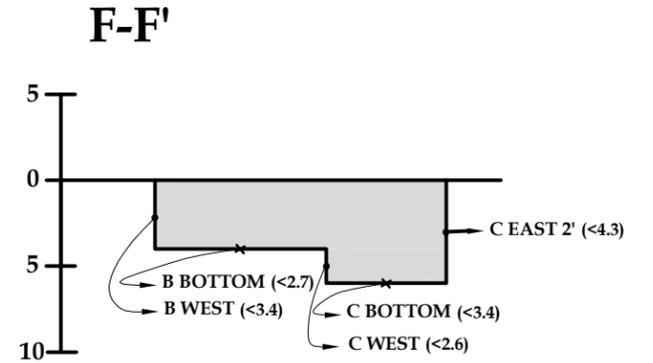
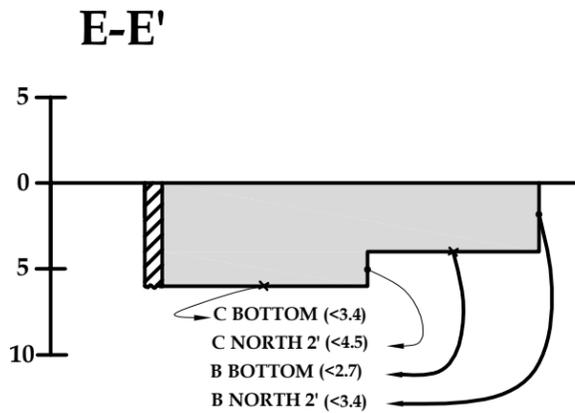
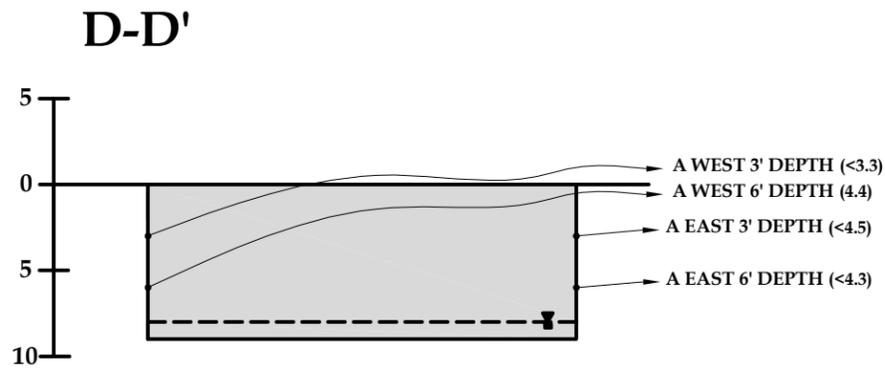
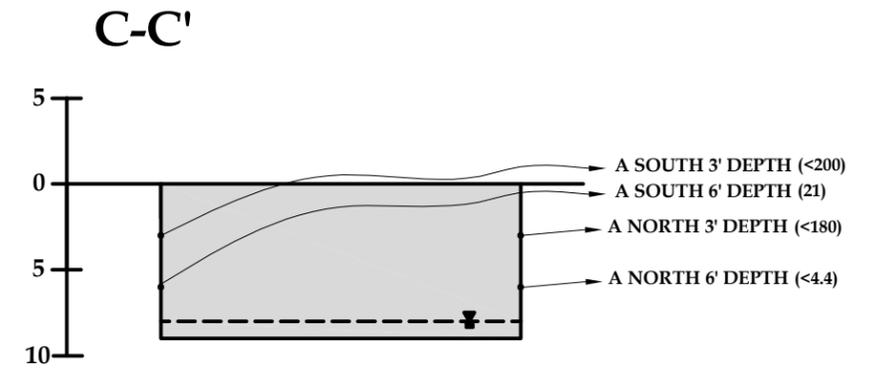
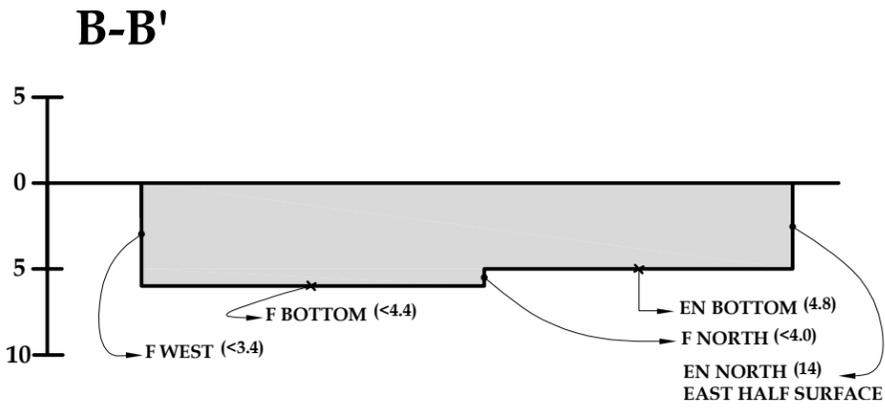
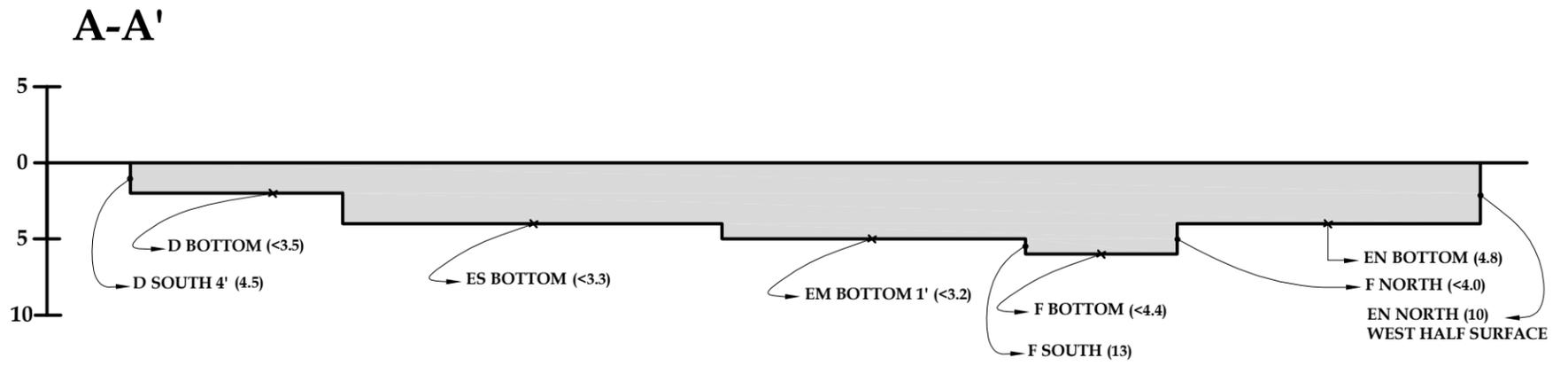
SHEET **1** OF **1**

121103Site1.DWG 3/18/11 SPV

LEGEND

- EXCAVATION CONFIRMATION SIDEWALL SAMPLE
- x EXCAVATION CONFIRMATION BASE SAMPLE
- WATER TABLE ELEVATION
- ▨ SUBSURFACE PORTION OF BUILDING FOUNDATION
- ▭ EXCAVATED AREA

NOTE:
UNITS IN µg/kg-dry



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

VOLUNTARY COMPLIANCE STATUS REPORT

FORMER DICKIES INDUSTRIAL SERVICES, INC. COLLEGE PARK, GEORGIA

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



VERTICAL PROFILES OF TRICHLOROETHENE IN SOIL (POST EXCAVATION)

SCALE 1:5 DATE MARCH 18, 2011

PROJECT NO. 121103 AutoCAD 2007 121103Site1.DWG

DRAWING NO. **32**

REV. NO. **0**

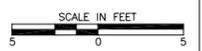
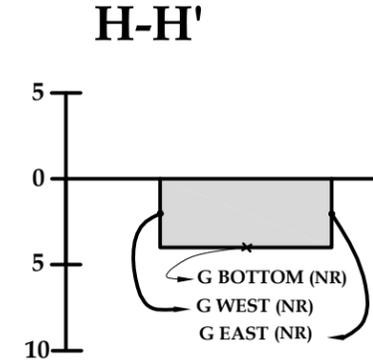
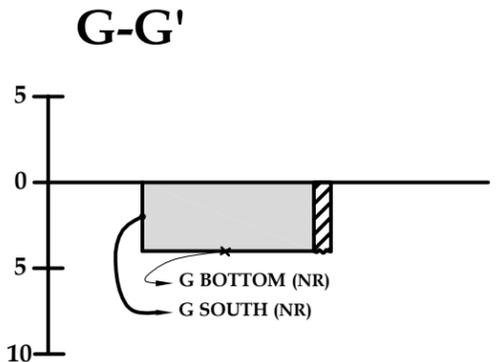
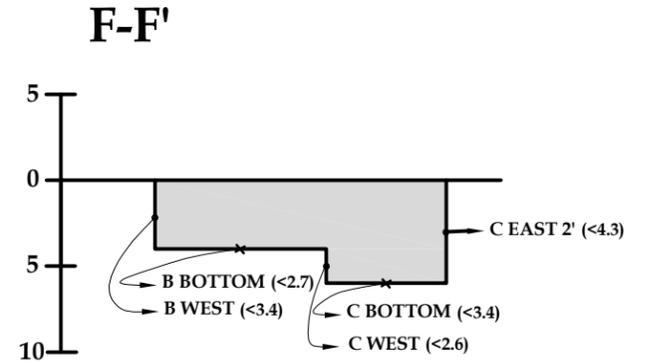
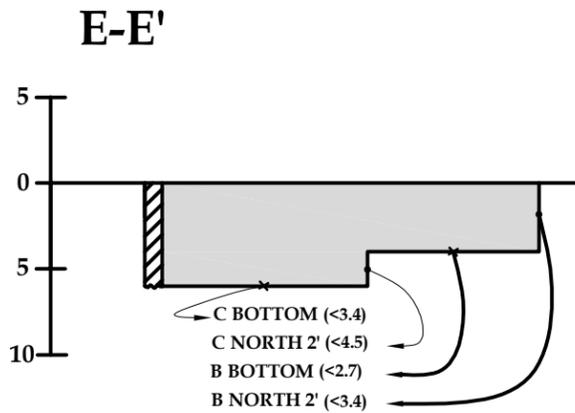
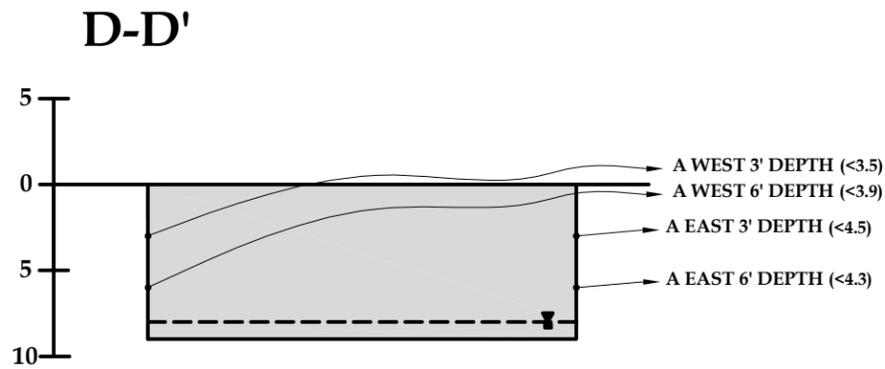
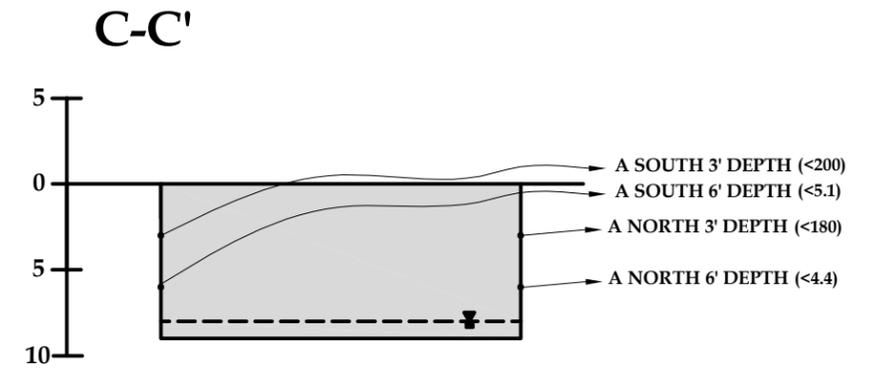
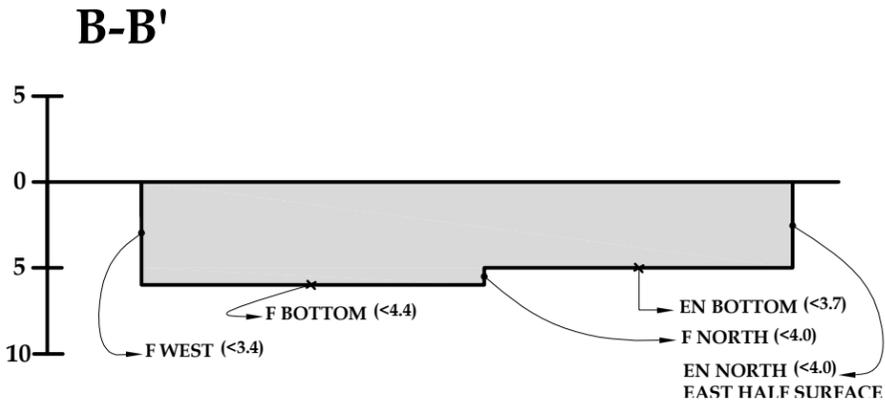
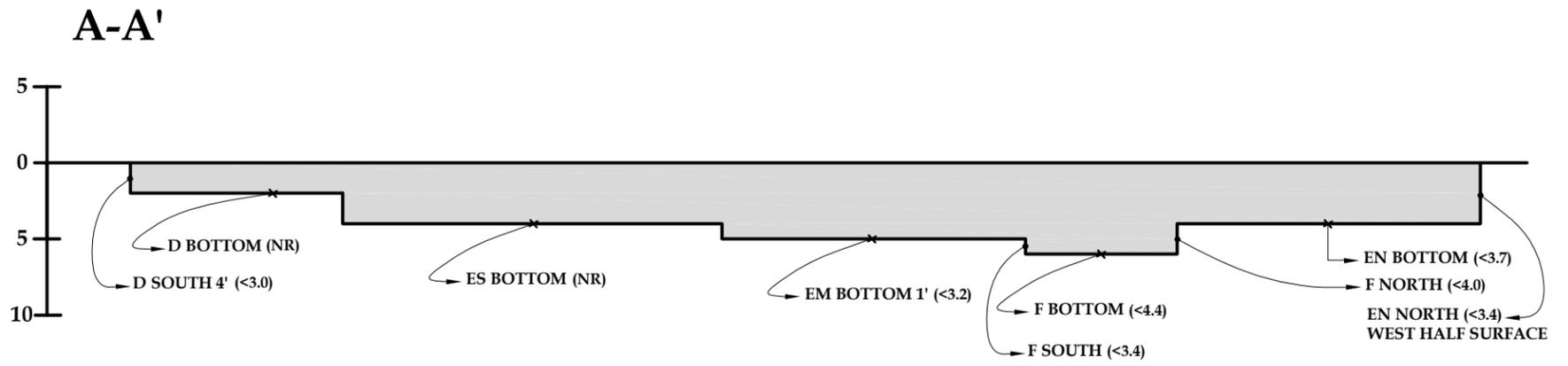
SHEET **1** OF **1**

121103Site1.DWG 3/18/11 SPV REV

LEGEND

- EXCAVATION CONFIRMATION SIDEWALL SAMPLE
- x EXCAVATION CONFIRMATION BASE SAMPLE
- ▬ WATER TABLE ELEVATION
- ▨ SUBSURFACE PORTION OF BUILDING FOUNDATION
- ▭ EXCAVATED AREA

NOTE:
UNITS IN µg/kg-dry
NR=NOT REPORTED



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

VOLUNTARY COMPLIANCE STATUS REPORT
 FORMER DICKIES INDUSTRIAL SERVICES, INC. COLLEGE PARK, GEORGIA
 DRAWN BY S. VIZUETE PROJECT ENGINEER S. THOMPSON
 DESIGN ENGINEER L. DORMAN PROJECT MANAGER S. THOMPSON



NOT FOR CONSTRUCTION

VERTICAL PROFILES OF 1,1-DICHLOROETHENE IN SOIL (POST EXCAVATION)
 SCALE 1:5 DATE MARCH 18, 2011
 PROJECT NO. 121103 AutoCAD 2007 121103Site1.DWG

DRAWING NO. **33**
 REV. NO. **0**
 SHEET **1** OF **1**

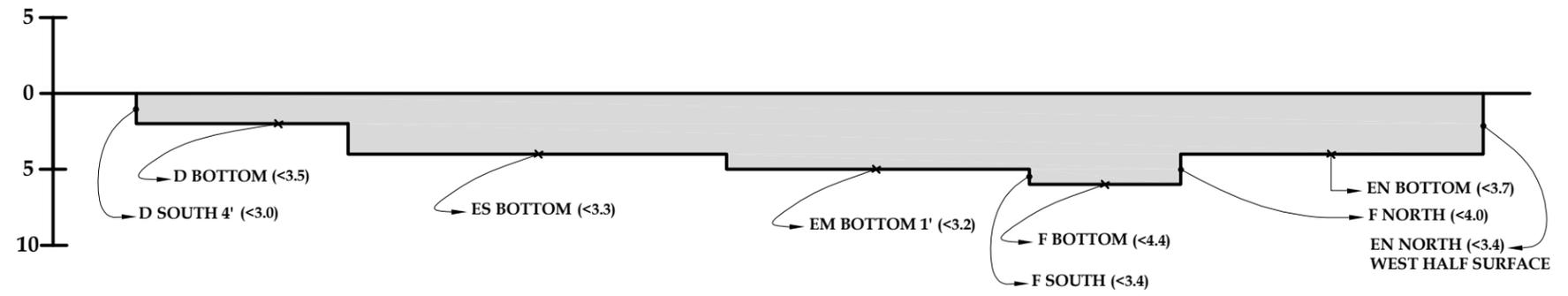
121103Site1.DWG 3/18/11 SPV REV

LEGEND

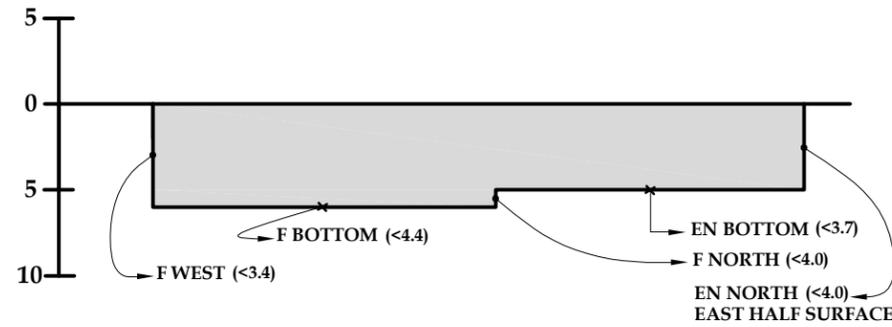
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- x EXCAVATION CONFIRMATION BASE SAMPLE
- WATER TABLE ELEVATION
- WATER TABLE ELEVATION
- ▨ SUBSURFACE PORTION OF BUILDING FOUNDATION
- ▭ EXCAVATED AREA

NOTE:
UNITS IN µg/kg-dry

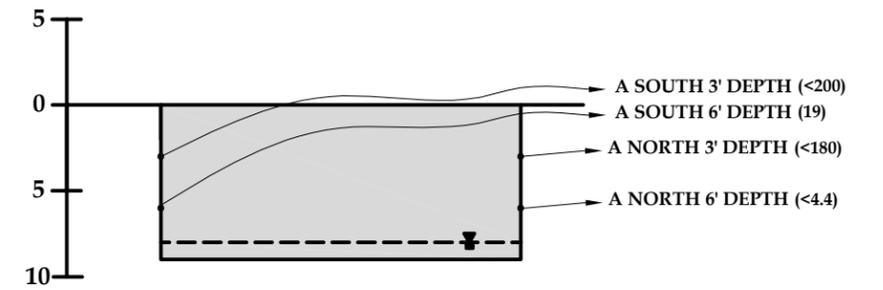
A-A'



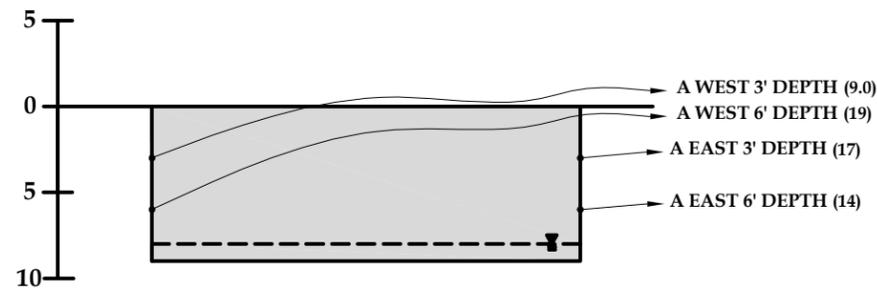
B-B'



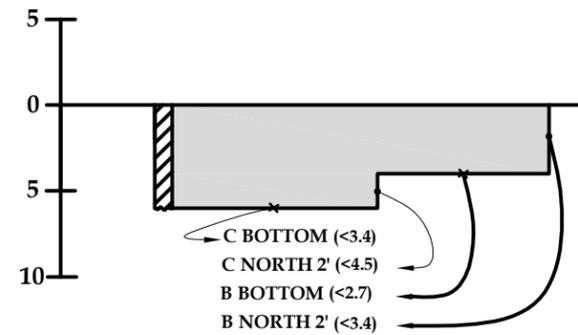
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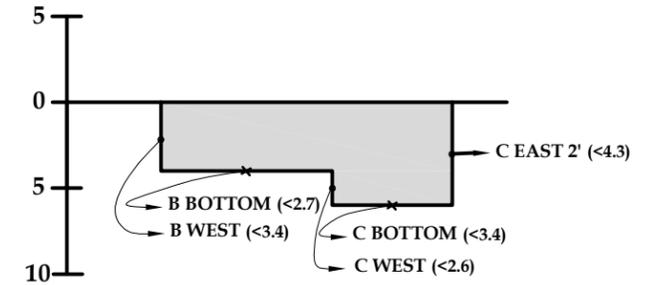
D-D'



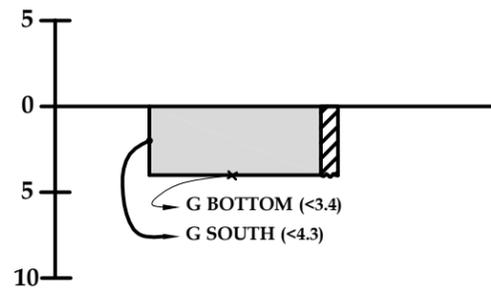
E-E'



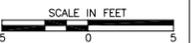
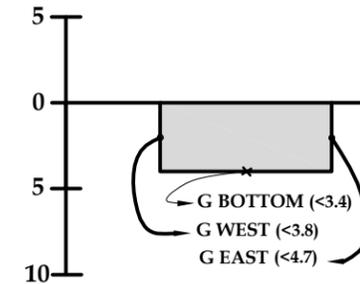
F-F'



G-G'



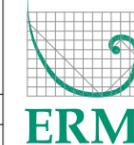
H-H'



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

VOLUNTARY COMPLIANCE STATUS REPORT

FORMER DICKIES INDUSTRIAL SERVICES, INC. COLLEGE PARK, GEORGIA
 DRAWN BY S. VIZUETE PROJECT ENGINEER S. THOMPSON
 DESIGN ENGINEER L. DORMAN PROJECT MANAGER S. THOMPSON



NOT FOR CONSTRUCTION

VERTICAL PROFILES OF CIS-1,2-DICHLOROETHENE IN SOIL (POST EXCAVATION)

SCALE 1:5 DATE MARCH 18, 2011
 PROJECT NO. 121103 AutoCAD 2007 121103Site1.DWG

DRAWING NO.

34

REV. NO.

0

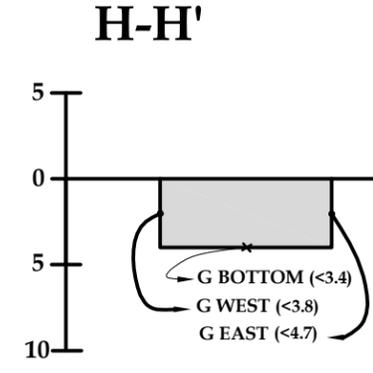
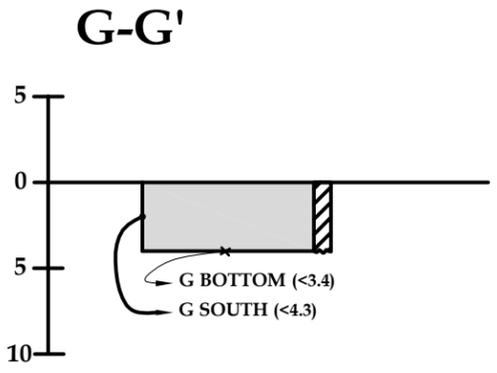
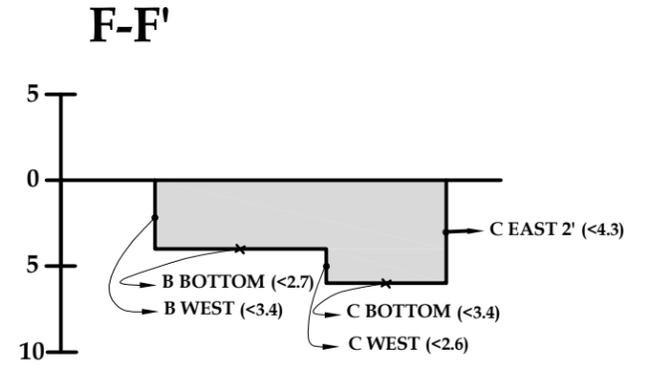
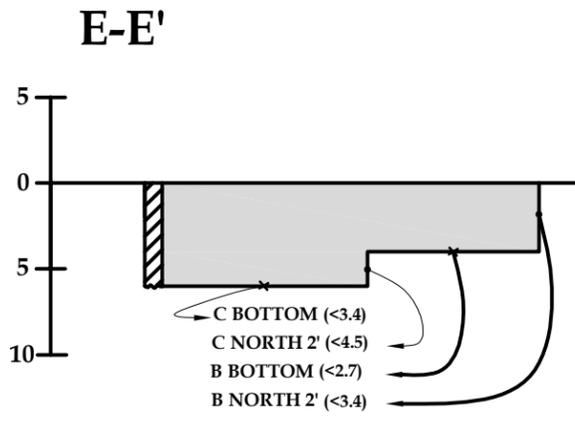
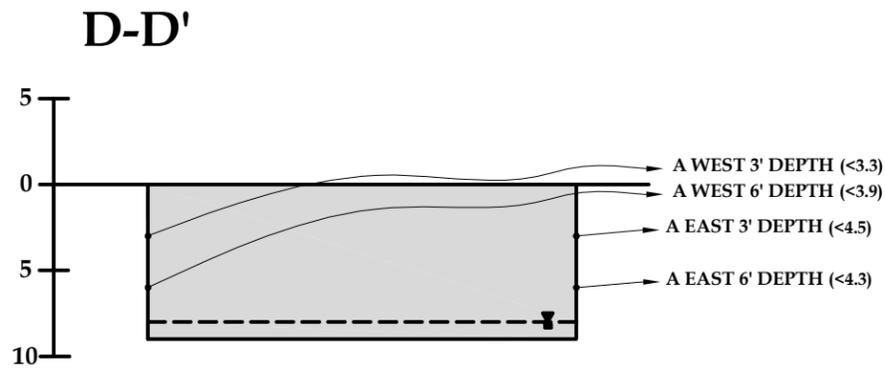
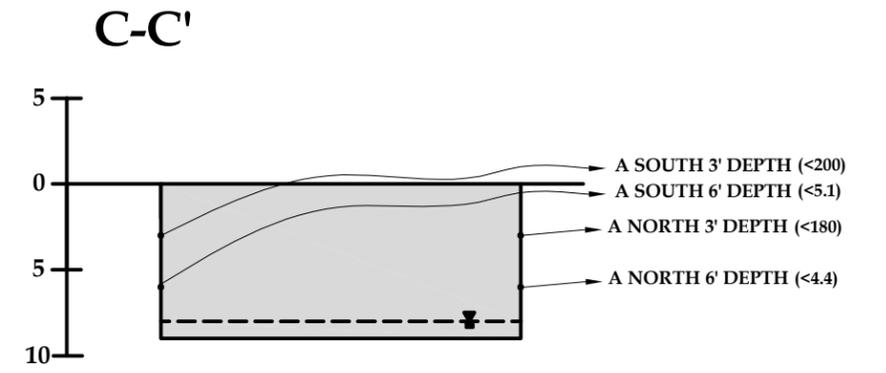
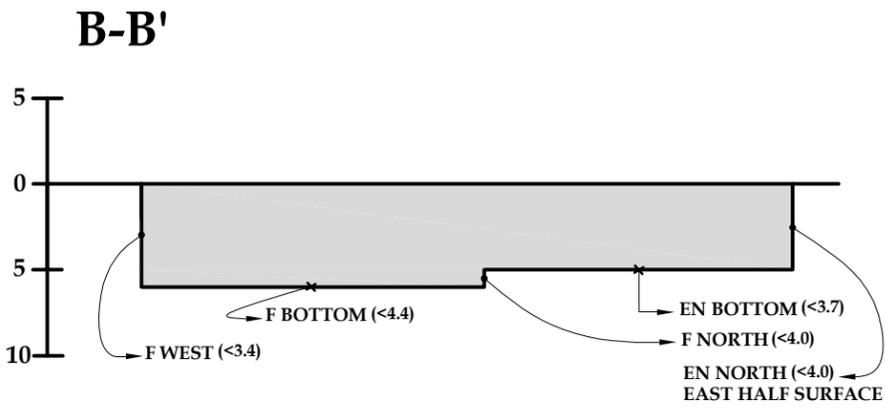
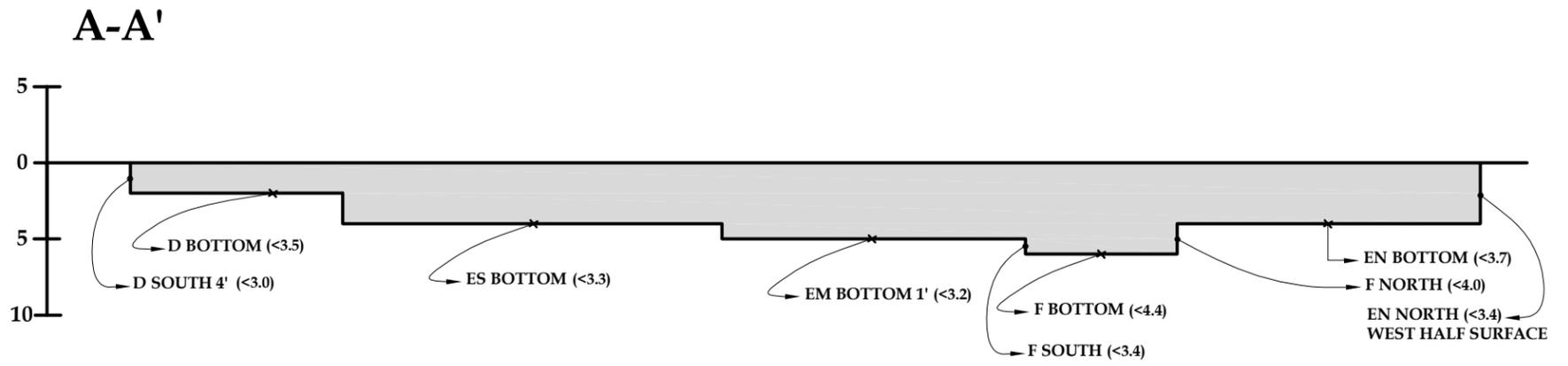
SHEET **1** OF **1**

121103Site1.DWG 3/18/11 SPV

LEGEND

- EXCAVATION CONFIRMATION SIDEWALL SAMPLE
- x EXCAVATION CONFIRMATION BASE SAMPLE
- WATER TABLE ELEVATION
- ▨ SUBSURFACE PORTION OF BUILDING FOUNDATION
- ▭ EXCAVATED AREA

NOTE:
UNITS IN µg/kg-dry



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

VOLUNTARY COMPLIANCE STATUS REPORT

FORMER DICKIES INDUSTRIAL SERVICES, INC. COLLEGE PARK, GEORGIA

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



**VERTICAL PROFILES OF
TRANS-1,2-DICHLOROETHENE IN SOIL
(POST EXCAVATION)**

SCALE 1:5 DATE MARCH 18, 2011

PROJECT NO. 121103 AutoCAD 2007 121103Site1.DWG

DRAWING NO. **35**

REV. NO. **0**

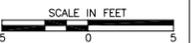
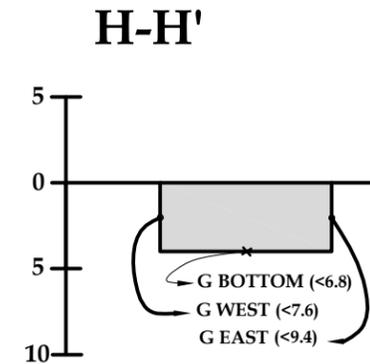
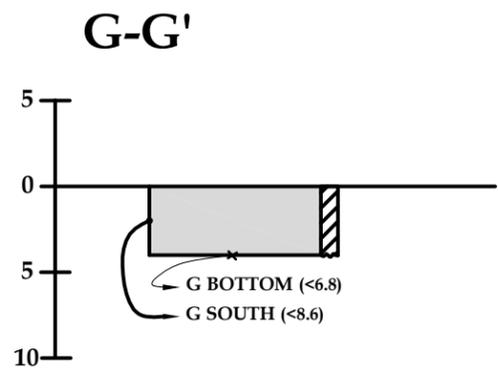
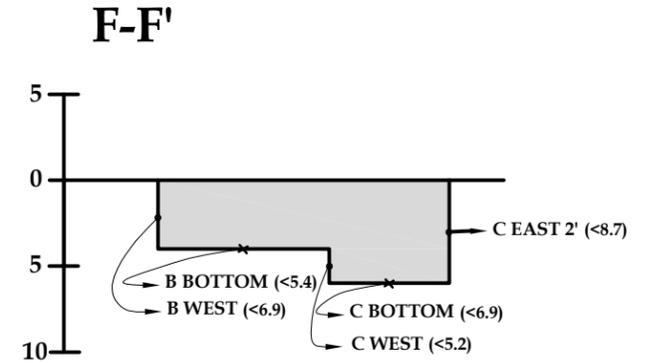
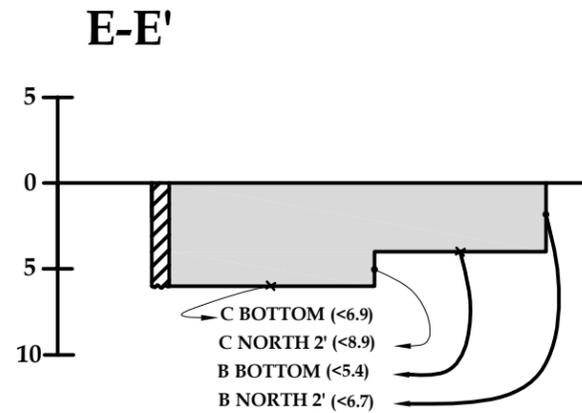
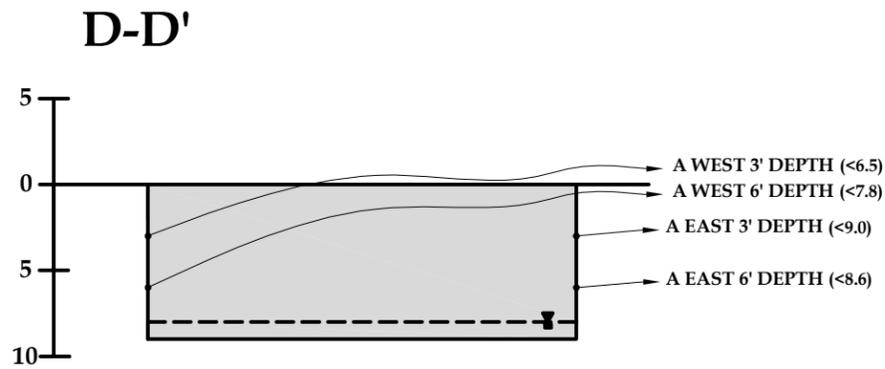
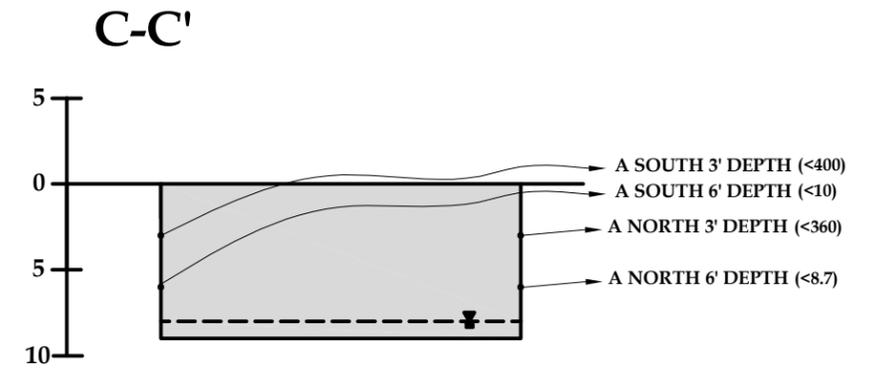
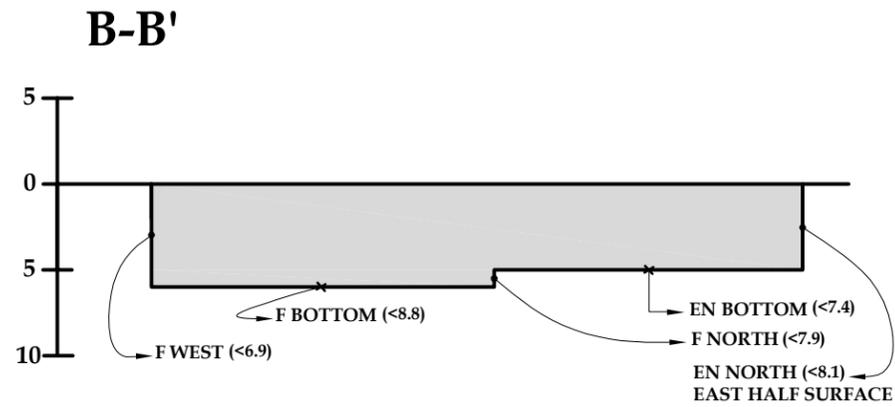
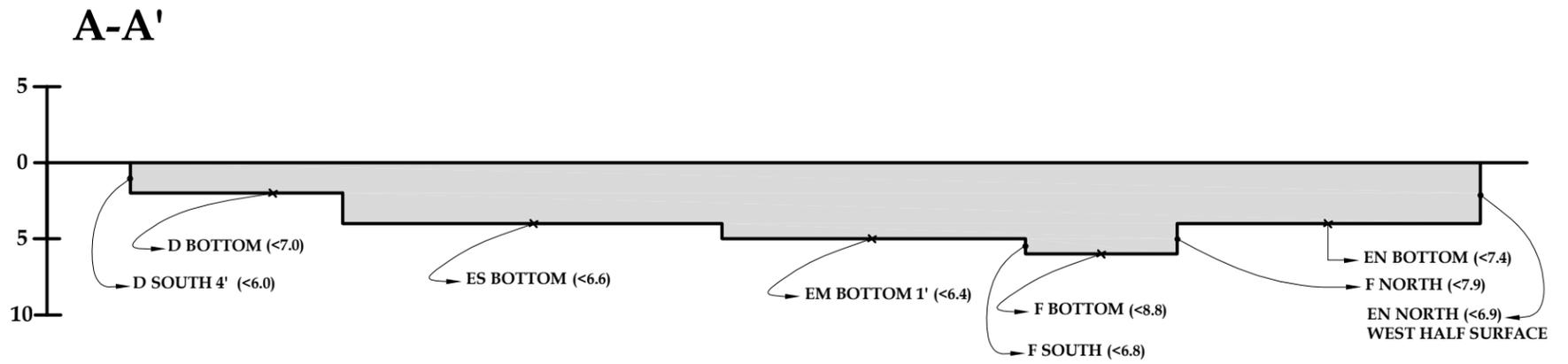
SHEET **1** OF **1**

121103Site1.DWG 3/18/11 SPV REV

LEGEND

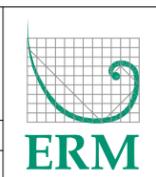
- EXCAVATION CONFIRMATION SIDEWALL SAMPLE
- x EXCAVATION CONFIRMATION BASE SAMPLE
- WATER TABLE ELEVATION
- ▨ SUBSURFACE PORTION OF BUILDING FOUNDATION
- ▭ EXCAVATED AREA

NOTE:
UNITS IN µg/kg-dry



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

VOLUNTARY COMPLIANCE STATUS REPORT	
FORMER DICKIES INDUSTRIAL SERVICES, INC. COLLEGE PARK, GEORGIA	
DRAWN BY S. VIZUETE	PROJECT ENGINEER S. THOMPSON
DESIGN ENGINEER L. DORMAN	PROJECT MANAGER S. THOMPSON



NOT FOR CONSTRUCTION

VERTICAL PROFILES OF VINYL CHLORIDE IN SOIL (POST EXCAVATION)	
SCALE 1:5	DATE MARCH 18, 2011
PROJECT NO. 121103	AutoCAD 2007 121103Site1.DWG

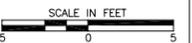
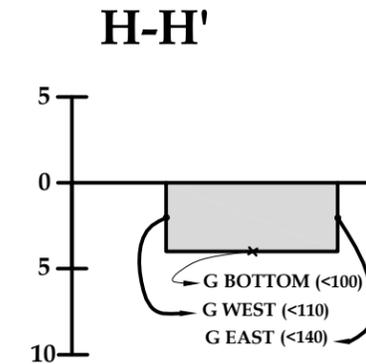
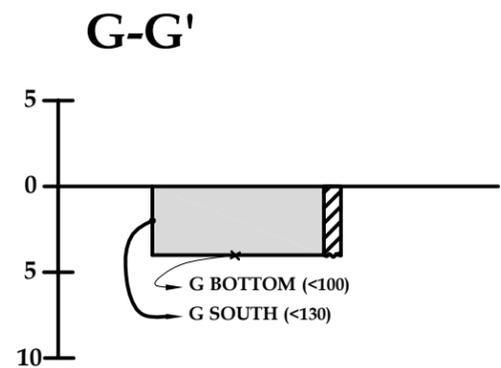
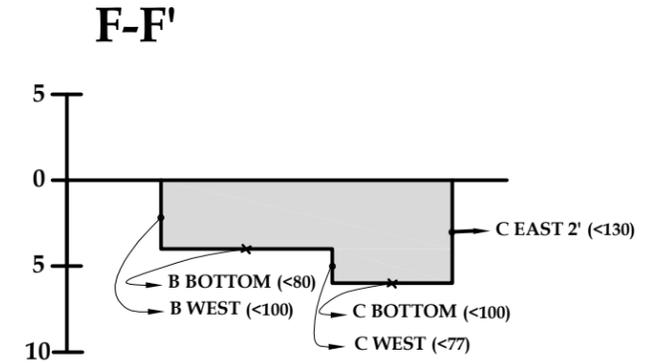
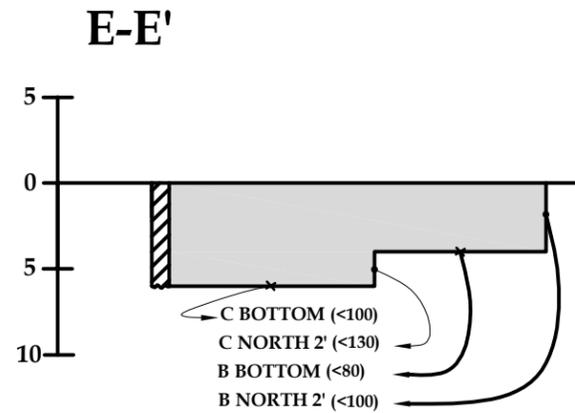
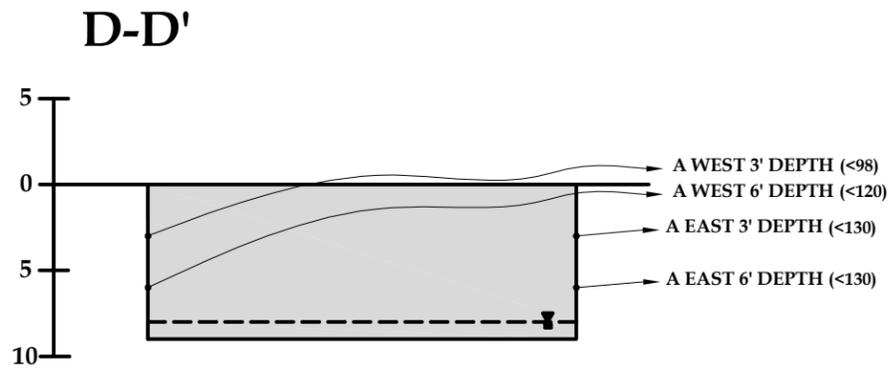
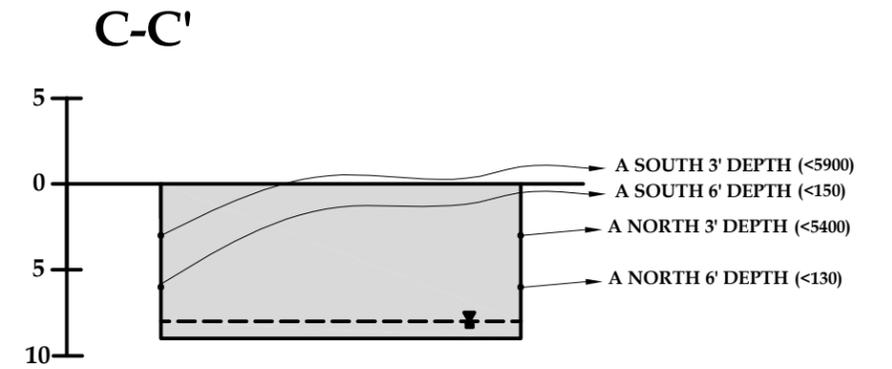
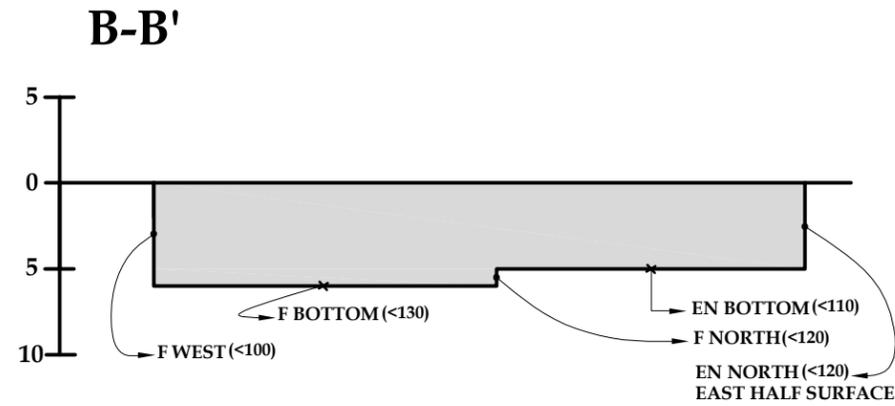
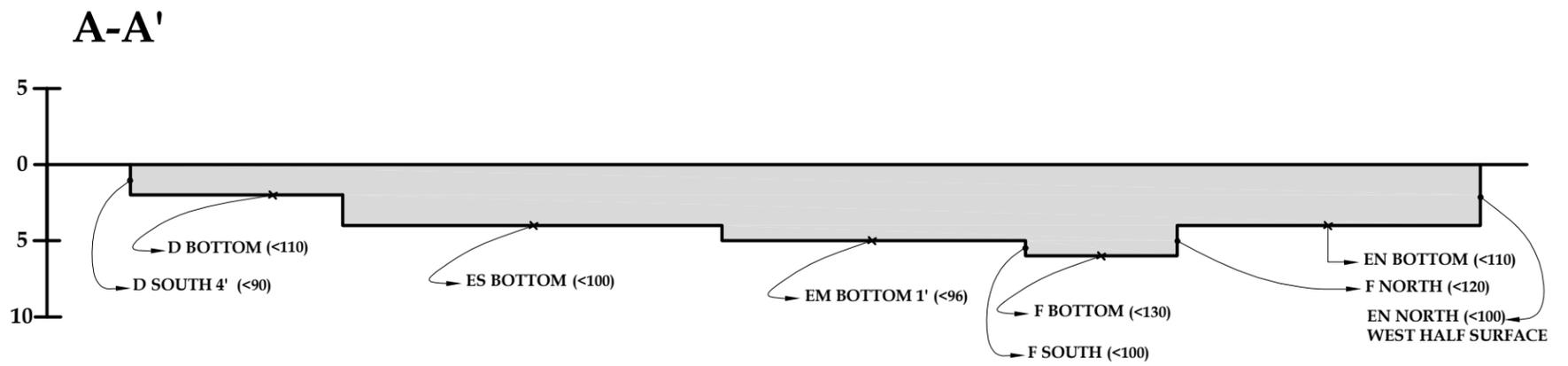
DRAWING NO. 36
REV. NO. 0
SHEET 1 OF 1

121103Site1.DWG 3/18/11 SPV REV

LEGEND

- EXCAVATION CONFIRMATION SIDEWALL SAMPLE
- x EXCAVATION CONFIRMATION BASE SAMPLE
- WATER TABLE ELEVATION
- WATER TABLE ELEVATION
- ▨ SUBSURFACE PORTION OF BUILDING FOUNDATION
- ▭ EXCAVATED AREA

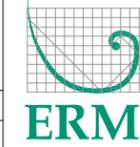
NOTE:
UNITS IN µg/kg-dry



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

VOLUNTARY COMPLIANCE STATUS REPORT

FORMER DICKIES INDUSTRIAL SERVICES, INC. COLLEGE PARK, GEORGIA
 DRAWN BY S. VIZUETE PROJECT ENGINEER S. THOMPSON
 DESIGN ENGINEER L. DORMAN PROJECT MANAGER S. THOMPSON



NOT FOR CONSTRUCTION

VERTICAL PROFILES OF 1,4-DIOXANE IN SOIL (POST EXCAVATION)

SCALE 1:5 DATE MARCH 18, 2011
 PROJECT NO. 121103 AutoCAD 2007 121103Site1.DWG

DRAWING NO. 37
 REV. NO. 0
 SHEET 1 OF 1

121103Site1.DWG 3/18/11 SPV REV



LEGEND

- VRP Tax Parcels
- Other Nearby Tax Parcels



**Environmental
Resources
Management**

**TAX PARCEL MAP
VOLUNTARY COMPLIANCE STATUS REPORT
FORMER DICKIES INDUSTRIAL SERVICES, INC.
COLLEGE PARK, GEORGIA**

APPENDIX

A

APPENDIX B
VRP TAX PARCEL DETAILS
VOLUNTARY SOMPLIANCE STATUS REPORT

Tax Parcel ID	Owner	Physical Address	Contact Person
130036LL1414	Coca-Cola Refreshments	Sullivan Road	Reginald E. Prime Coca-Cola Refreshments P.O. Box 723040 Atlanta, GA 33139-0040 (770) 989-3144
130036LL1463	Dickies Industrial Services, Inc.	2411 Sullivan Road	Joan B. Sasine, Esq. Bryan Cave One Atlantic Center Fourteenth Floor 1201 West Peachtree Street, NW Atlanta, GA 30309-3488 (404) 572-6647
130036LL1356			
130036LL1349			

Appendix C

Documentation of Work Performed by the Professional Engineer Since the Previous VRP Submittal

**Dickies Industrial Services, Inc. HSI # 10127
College Park, Georgia**

Month	Number of Hours Invoiced by Shanna Thompson, P.E.	Activities Performed by Shanna Thompson, P.E. Since the Previous Submittal
May-10	89 hours	Oversee Soil Removal and Confirmation Sampling
Jun-10	86 hours	Oversee Soil Removal and Confirmation Sampling
Jul-10	35 hours	Data Management from Soil Removal Activities - Backfill, Cleaning, Documentation
Aug-10	66 hours	Draft Voluntary Compliance Status Report
Sep-10	38 hours	Oversee final soil delineation samples and survey / VCSR Revisions
Oct-10	30 hours	Oversee Annual Ground Water Sampling Event and Vapor Intrusion Assessment
Nov-10	16 hours	Oversee Vapor Intrusion Assessment
Dec-10	27 hours	Prepare Soil Removal Report
Jan-11	13 hours	Finalize Vapor Intrusion Assessment
Feb-11	21 hours	Oversee Additional Well Installation and Sampling / VCSR Modificaitons
Mar-11	66 hours	Completion and Distribution of VCSR

MEMORANDUM

TO: Jacki Scarbary, Environmental Specialist
Hazardous Sites Response Program

FROM: Greg Gilmore, Geologist *GC*
Hazardous Sites Response Program

THROUGH: Antonia Beavers, Acting Unit Coordinator
Hazardous Sites Response Program

DATE: February 23, 2010

RE: Dickies Industrial Services
Email from Joan Sasine regarding Leaching Calculations
HSI# 10127

Discussion:

I have reviewed the above referenced document and offer the following comments:

Comments:

1. EPD concurs that the Soil Screening Level (SSL) value 0.877 mg/kg calculated using a default Dilution Attenuation Factor (DAF) of 20 has been shown to be protective of groundwater. This value is based on total and SPLP concentrations used to calculate a site-specific K_d value. Please continue the excavation as planned.

Notes to CO:

I cannot find out who originally calculated the site-specific K_d value in the past. I do not think that we can go back and recalculate a value that has already been determined to be protective of groundwater at the site. Since we have already approved this number in the letter dated October 12, 2005 then we should use the value provided by EPD. If the consultant would like to change the number you can have them resubmit calculations for review and at that time we can reevaluate the Total vs. SPLP data to determine if a new number is warranted.

From: "Sasine, Joan" <Joan.Sasine@BryanCave.com>
To: "'jacki.scarbary@dnr.state.ga.us'" <jacki.scarbary@dnr.state.ga.us>, "'s...
CC: 'Antonia Beavers' <Antonia.Beavers@dnr.state.ga.us>
Date: 11:48 AM 1/22/10
Subject: Dickies Industrial Services HSI Site
Attachments: bc.jpg; 2nd Report Response.pdf

Attached is a 10/12/05 letter from EPD discussing the RRS for PCE. It states on page 2 that the Kd is 8.5L/kg; the DAF is 20; and the SSL is .877mg/kg. I just want to be sure, before we begin excavating, that the Type 4 RRS for PCE approved by EPD is .877 mg/kg. I would appreciate your confirmation. Thanks so much, Joan.

[<http://www.ecave.net/marketing/sigs/WDC901/bc.jpg>]
Joan B. Sasine
Partner

One Atlantic Center | Fourteenth Floor | 1201 West Peachtree Street, NW | Atlanta, GA 30309-3488
t: 404.572.6647 | f: 404.572.6999 | e: joan.sasine@bryancave.com<mailto:joan.sasine@bryancave.com>

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bc1lp2010

10/12/05

Georgia Department of Natural Resources

2 Martin Luther King Jr. Drive, S.E., Suite 1462 East, Atlanta, Georgia 30334
Noel Holcomb, Commissioner
Environmental Protection Division
Carol A. Couch, Ph.D., Director
404/657-8600

October 12, 2005

CERTIFIED MAIL

Return Receipt Requested

Mr. Jack D. Riggenschach
ERM-EnvironClean, LLC
300 Chastain Center Blvd., Suite 375
Kennesaw, GA 30144

Re: Second Annual Report on Effectiveness of Corrective Action dated June 30, 2005
Your Letter dated January 7, 2005
Former Dickies Industrial Services Site
College Park, Georgia, HSI# 10127

Dear Mr. Riggenschach:

The Georgia Environmental Protection Division (EPD) has received and reviewed your letter dated January 7, 2005 regarding Soil-Water Partition Equation/calculation of SSLs and Type 4 Risk Reduction Standard (RRS) for soil and groundwater and your Second Annual Report on Effectiveness of Corrective Action (Report) dated June 30, 2005 for Former Dickies Industrial Services site. EPD provides the following comments on your Report and issues regarding Soil-Water Partition Equation/calculation of SSLs and Type 4 RRS for soil and groundwater.

Report

EPD concurs with your Conclusions and Recommendations except your proposed change for soil and groundwater sampling activities.

Soil: Please keep AS-23, AS-31, AS-39, and GP-5G as soil sampling locations, as your proposed Type 4 RRS value for tetrachloroethene has not been approved by EPD.

Groundwater: Please monitor MW-34 annually instead of biannually to better monitor the movement/change of the contamination plume.

Kd and Soil Screening Level (SSL) Calculations

In reviewing your totals vs. SPLP data in your April 15, 2004 letter for the calculation of a site-specific K_d value of tetrachloroethene, you included data sets with total concentrations outside one order of magnitude of your current calculated soil screening level (SSL) (4 mg/kg) and your previously calculated SSL (29.9 mg/kg). Since the relationship between total concentrations and SPLP data is not linear, results outside an order of magnitude of the calculated SSL will yield inaccurate results.

EPD has calculated a site-specific K_d value based on your total concentrations and SPLP concentrations for the site. Based on the site-specific data, the appropriate K_d value is 8.5 L/kg. Using a dilution attenuation factor (DAF) of 20, the SSL that is protective of groundwater is 0.877 mg/kg.

Type 4 RRS for Soil and Groundwater

The Type 4 risk reduction standards (RRSs) for chemicals in groundwater obtained by using a K factor of 0.25 L/m³ and presented in Table 2-3 of the Report, are correct except for trichloroethene. The correct Type 4 RRS for trichloroethene in groundwater should be 0.0012 mg/L instead of 0.012 mg/L on Table 2-3.

The value given for trichloroethene, calculated from RAGS equation 6, is incorrect. This value resulted from the use of a Target Risk (TR) of 10⁻⁴ instead of 10⁻⁵. The correct value for trichloroethene should be 1.33 mg/kg instead of 1.33E+01 mg/kg on Table 2-7.

If you have any questions regarding this matter, please contact Mr. Yue Han at 404-657-8600.

Sincerely,



Alexandra Y. Cleary

Unit Coordinator

Hazardous Sites Response Program

AYC/yh

cc: Joan Sasine

File: HSI# 10127

Table 1-2

*Risk Reduction Standards for Soil
Former Dickies Industrial Services, Inc.
HSI Site No. 10127
mg/kg*

Chemical	Type 3 (mg/kg)		Type 4 (mg/kg)	
	Surface Soils	Soils >2' Below Surface	Surface Soils	Soils >2' Below Surface
1,1-dichloroethene	0.7	0.7	NC	NC
cis-1,2-dichloroethene	0.5	0.5	18.9	18.9
Tetrachloroethene	0.5	0.5	.877*	.877*
Trichloroethene	0.5	0.5	0.36	0.36
Vinyl Chloride (adult)	0.2	0.2	0.03	0.03

Concentration to which site will be certified

Source: ERM letter submittal to EPD on January 7, 2005

* RRS was modified to be in compliance with the EPD letter to ERM dated October 12, 2005.

App E - 2010 Vapor Intrusion Assessment Photo Log - HSI 10127



Photo 1



Photo 2

App E - 2010 Vapor Intrusion Assessment Photo Log - HSI 10127



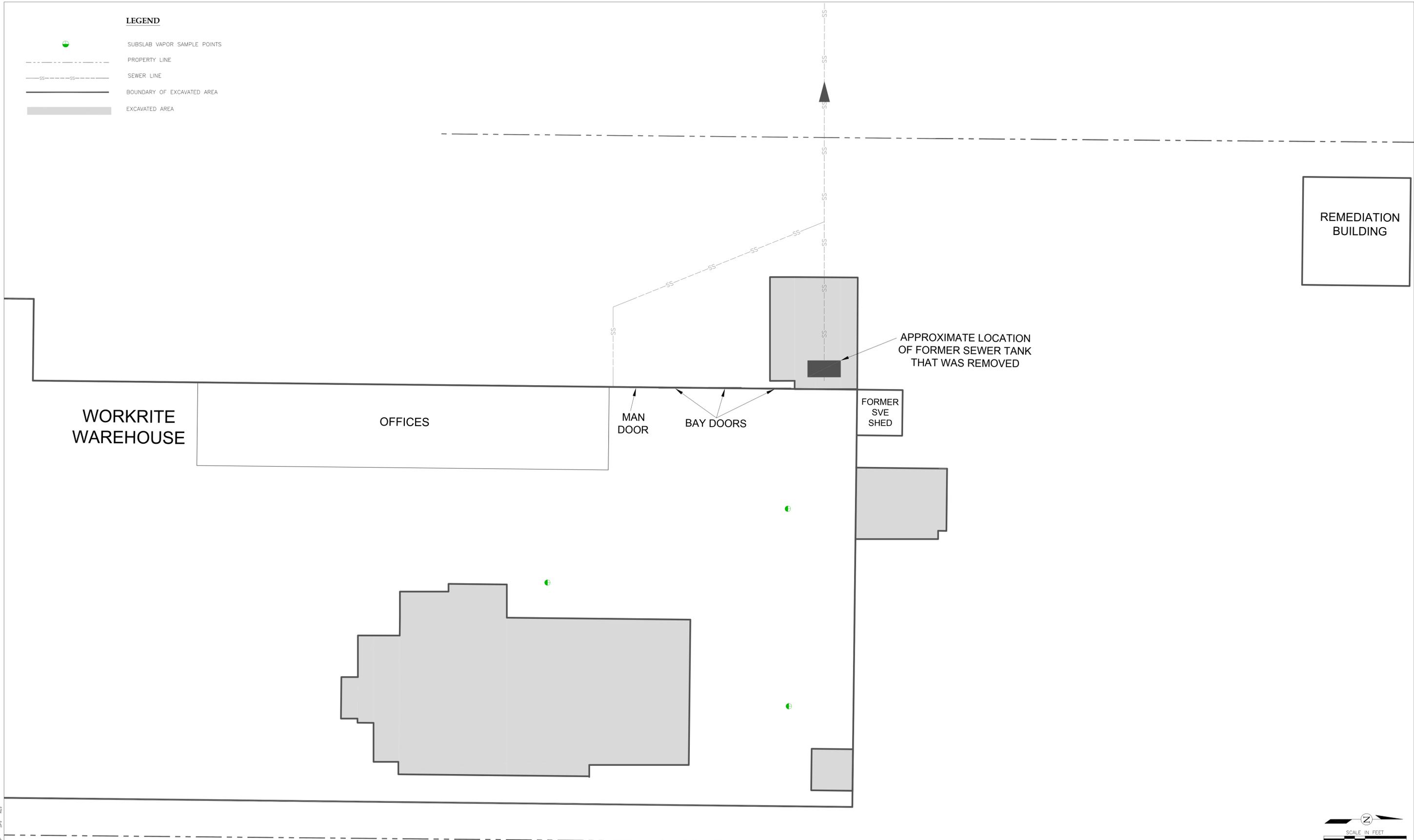
Photo 3



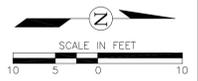
Photo 4

LEGEND

-  SUBSLAB VAPOR SAMPLE POINTS
-  PROPERTY LINE
-  SEWER LINE
-  BOUNDARY OF EXCAVATED AREA
-  EXCAVATED AREA



121103Site.DWG 10/21/2010 VAPOR INT WP SPV REV



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

VAPOR INTRUSION WORK PLAN

FORMER DICKIES INDUSTRIAL SERVICES, INC. COLLEGE PARK, GEORGIA

DRAWN BY Y. TACKETT	PROJECT ENGINEER S. THOMPSON
DESIGN ENGINEER L. DORMAN	PROJECT MANAGER S. THOMPSON



NOT FOR CONSTRUCTION

VAPOR INTRUSION SAMPLE PROBE LOCATIONS

SCALE AS NOTED	DATE OCTOBER 21, 2010
PROJECT NO. 121103	AutoCAD 2007 121103Site.DWG

DRAWING NO.	REV. NO.
SHEET 5 OF 31	

11/16/2010
Mr. Lane Dorman
ERM-Southeast
300 Chastain Center Blvd. Suite 375

Kennesaw GA 30144

Project Name:
Project #:
Workorder #: 1011158

Dear Mr. Lane Dorman

The following report includes the data for the above referenced project for sample(s) received on 11/5/2010 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Ausha Scott at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Ausha Scott
Project Manager

WORK ORDER #: 1011158

Work Order Summary

CLIENT:	Mr. Lane Dorman ERM-Southeast 300 Chastain Center Blvd. Suite 375 Kennesaw, GA 30144	BILL TO:	Mr. Lane Dorman ERM-Southeast 300 Chastain Center Blvd. Suite 375 Kennesaw, GA 30144
PHONE:	770-590-8383	P.O. #	
FAX:	770-423-2151	PROJECT #	
DATE RECEIVED:	11/05/2010	CONTACT:	Ausha Scott
DATE COMPLETED:	11/12/2010		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	V-1	Modified TO-15	2.0 "Hg	5 psi
02A	V-2	Modified TO-15	2.0 "Hg	5 psi
03A	V-3	Modified TO-15	4.0 "Hg	5 psi
04A	V-3 dup	Modified TO-15	4.0 "Hg	5 psi
05A	Lab Blank	Modified TO-15	NA	NA
06A	CCV	Modified TO-15	NA	NA
07A	LCS	Modified TO-15	NA	NA
07AA	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: 

DATE: 11/16/10

Laboratory Director

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763,
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/11

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

**LABORATORY NARRATIVE
EPA Method TO-15
ERM-Southeast
Workorder# 1011158**

Four 6 Liter Summa Canister samples were received on November 05, 2010. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Receiving Notes

The Chain of Custody (COC) information for sample V-3 did not match the entry on the sample tag with regard to sample identification. The information on the COC was used to process and report the sample.

The Chain of Custody (COC) information for sample V-2 did not match the information on the canister with regard to canister identification. The client was notified of the discrepancy and the information on the canister was used to process and report the sample.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

**Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS**

Client Sample ID: V-1

Lab ID#: 1011158-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.72	3.6	4.9	24

Client Sample ID: V-2

Lab ID#: 1011158-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	0.72	1.5	3.9	8.1
Tetrachloroethene	0.72	6.0	4.9	40

Client Sample ID: V-3

Lab ID#: 1011158-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	0.78	1.6	4.2	8.8
Tetrachloroethene	0.78	35	5.2	240

Client Sample ID: V-3 dup

Lab ID#: 1011158-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	0.78	1.5	4.2	8.3
Tetrachloroethene	0.78	33	5.2	230

Client Sample ID: V-1

Lab ID#: 1011158-01A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	d111012	Date of Collection: 11/2/10 1:18:00 PM
Dil. Factor:	1.44	Date of Analysis: 11/10/10 01:16 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.72	Not Detected	1.8	Not Detected
cis-1,2-Dichloroethene	0.72	Not Detected	2.8	Not Detected
Trichloroethene	0.72	Not Detected	3.9	Not Detected
Tetrachloroethene	0.72	3.6	4.9	24
trans-1,2-Dichloroethene	0.72	Not Detected	2.8	Not Detected
1,4-Dioxane	2.9	Not Detected	10	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	98	70-130

Client Sample ID: V-2

Lab ID#: 1011158-02A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	d111013	Date of Collection: 11/2/10 1:37:00 PM
Dil. Factor:	1.44	Date of Analysis: 11/10/10 01:52 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.72	Not Detected	1.8	Not Detected
cis-1,2-Dichloroethene	0.72	Not Detected	2.8	Not Detected
Trichloroethene	0.72	1.5	3.9	8.1
Tetrachloroethene	0.72	6.0	4.9	40
trans-1,2-Dichloroethene	0.72	Not Detected	2.8	Not Detected
1,4-Dioxane	2.9	Not Detected	10	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	99	70-130

Client Sample ID: V-3

Lab ID#: 1011158-03A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	d111014	Date of Collection: 11/2/10 2:17:00 PM
Dil. Factor:	1.55	Date of Analysis: 11/10/10 02:31 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.78	Not Detected	2.0	Not Detected
cis-1,2-Dichloroethene	0.78	Not Detected	3.1	Not Detected
Trichloroethene	0.78	1.6	4.2	8.8
Tetrachloroethene	0.78	35	5.2	240
trans-1,2-Dichloroethene	0.78	Not Detected	3.1	Not Detected
1,4-Dioxane	3.1	Not Detected	11	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	101	70-130

Client Sample ID: V-3 dup

Lab ID#: 1011158-04A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	d111015	Date of Collection: 11/2/10 2:17:00 PM
Dil. Factor:	1.55	Date of Analysis: 11/10/10 03:18 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.78	Not Detected	2.0	Not Detected
cis-1,2-Dichloroethene	0.78	Not Detected	3.1	Not Detected
Trichloroethene	0.78	1.5	4.2	8.3
Tetrachloroethene	0.78	33	5.2	230
trans-1,2-Dichloroethene	0.78	Not Detected	3.1	Not Detected
1,4-Dioxane	3.1	Not Detected	11	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	95	70-130

Client Sample ID: Lab Blank

Lab ID#: 1011158-05A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	d111005a	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/10/10 08:31 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	94	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	98	70-130

Client Sample ID: CCV

Lab ID#: 1011158-06A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	d111002	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/10/10 07:20 AM

Compound	%Recovery
Vinyl Chloride	87
cis-1,2-Dichloroethene	93
Trichloroethene	84
Tetrachloroethene	85
trans-1,2-Dichloroethene	90
1,4-Dioxane	94

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	96	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	98	70-130

Client Sample ID: LCS

Lab ID#: 1011158-07A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	d111003	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/10/10 07:41 AM

Compound	%Recovery
Vinyl Chloride	93
cis-1,2-Dichloroethene	94
Trichloroethene	90
Tetrachloroethene	91
trans-1,2-Dichloroethene	91
1,4-Dioxane	103

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	93	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	99	70-130

Client Sample ID: LCSD

Lab ID#: 1011158-07AA

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	d111004	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/10/10 08:00 AM

Compound	%Recovery
Vinyl Chloride	90
cis-1,2-Dichloroethene	96
Trichloroethene	88
Tetrachloroethene	91
trans-1,2-Dichloroethene	91
1,4-Dioxane	98

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	95	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	99	70-130

DATA ENTRY SHEET

GW-SCREEN
Version 3.1; 02/04

Reset to
Defaults

CALCULATE RISK-BASED GROUNDWATER CONCENTRATION (enter "X" in "YES" box)

YES

OR

CALCULATE INCREMENTAL RISKS FROM ACTUAL GROUNDWATER CONCENTRATION
(enter "X" in "YES" box and initial groundwater conc. below)

YES

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Initial groundwater conc., C_w ($\mu\text{g/L}$)	Chemical
127184	1.10E+02	Tetrachloroethylene

MORE
↓

ENTER Depth below grade to bottom of enclosed space floor, L_f (cm)	ENTER Depth below grade to water table, L_{WT} (cm)	ENTER SCS soil type directly above water table	ENTER Average soil/ groundwater temperature, T_s ($^{\circ}\text{C}$)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
200	807.72	SI	18.3333	

MORE
↓

ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2)	ENTER Vadose zone SCS soil type <input type="button" value="Lookup Soil
Parameters"/>	ENTER Vadose zone soil dry bulk density, ρ_b^v (g/cm^3)	ENTER Vadose zone soil total porosity, n^v (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^v (cm^3/cm^3)
SI			SI	1.35	0.489	0.167

MORE
↓

ENTER Target risk for carcinogens, TR (unitless)	ENTER Target hazard quotient for noncarcinogens, THQ (unitless)	ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
1.0E-06	1	70	30	30	350

Used to calculate risk-based
groundwater concentration.

END

RESULTS SHEET

RISK-BASED GROUNDWATER CONCENTRATION CALCULATIONS:

Indoor exposure groundwater conc., carcinogen (µg/L)	Indoor exposure groundwater conc., noncarcinogen (µg/L)	Risk-based indoor exposure groundwater conc., (µg/L)	Pure component water solubility, S (µg/L)	Final indoor exposure groundwater conc., (µg/L)
NA	NA	NA	2.00E+05	NA

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
7.0E-06	4.6E-03

MESSAGE SUMMARY BELOW:

END

DATA ENTRY SHEET

GW-SCREEN
Version 3.1; 02/04

Reset to
Defaults

CALCULATE RISK-BASED GROUNDWATER CONCENTRATION (enter "X" in "YES" box)

YES

OR

CALCULATE INCREMENTAL RISKS FROM ACTUAL GROUNDWATER CONCENTRATION
(enter "X" in "YES" box and initial groundwater conc. below)

YES

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Initial groundwater conc., C_w ($\mu\text{g/L}$)	Chemical
79016	6.20E+00	Trichloroethylene

MORE
↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Depth below grade to water table, L_{WT} (cm)	ENTER SCS soil type directly above water table	ENTER Average soil/ groundwater temperature, T_s ($^{\circ}\text{C}$)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
200	807.72	SI	18.3333	

MORE
↓

ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2)	ENTER Vadose zone SCS soil type Lookup Soil Parameters	ENTER Vadose zone soil dry bulk density, ρ_b^v (g/cm^3)	ENTER Vadose zone soil total porosity, n^v (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^v (cm^3/cm^3)
SI			SI	1.35	0.489	0.167

MORE
↓

ENTER Target risk for carcinogens, TR (unitless)	ENTER Target hazard quotient for noncarcinogens, THQ (unitless)	ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
1.0E-06	1	70	30	30	350

Used to calculate risk-based
groundwater concentration.

END

RESULTS SHEET

RISK-BASED GROUNDWATER CONCENTRATION CALCULATIONS:

Indoor exposure groundwater conc., carcinogen (µg/L)	Indoor exposure groundwater conc., noncarcinogen (µg/L)	Risk-based indoor exposure groundwater conc., (µg/L)	Pure component water solubility, S (µg/L)	Final indoor exposure groundwater conc., (µg/L)
NA	NA	NA	1.47E+06	NA

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
4.6E-06	2.4E-03

MESSAGE SUMMARY BELOW:

MESSAGE: Risk/HQ or risk-based groundwater concentration is based on a route-to-route extrapolation.

END



October 01, 2010

Shanna Thompson
ERM-Southeast
300 Chastain Center Blvd, Suite 375
Kennesaw GA 30144

TEL: (770) 590-8383
FAX: (770) 590-9164

RE: Williamson Dickie

Dear Shanna Thompson:

Order No: 1009I42

Analytical Environmental Services, Inc. received 5 samples on September 24, 2010 11:05 am for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/10-06/30/11.
- AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/11.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Brian Rohr
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3785 Presidential Parkway, Atlanta GA 30340-3704

AES

TEL: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1009342

Date: 9/23/10 Page 1 of 1

COMPANY: ERM		ADDRESS: 300 Chastain Center Blvd, Ste 375, Kennesaw, GA 30144				ANALYSIS REQUESTED						Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.		No # of Containers			
PHONE: (770) 590-8383		FAX: (770) 590-9164				8200s (Short List): PCE TCE 1,1-DCE 1,2-DCE VC 1,4-Dioxane						REMARKS					
SAMPLED BY: Joe Tan		SIGNATURE: <i>Joe Tan</i>				PRESERVATION (See codes)											
#	SAMPLE ID	DATE	TIME	Grab	Composite	Matrix (See codes)	S/M+I+NA										
1	ERM-SB-A-4	9/23/10	1055	✓		SO	✓										4
2	ERM-SB-A-8	↓	1105	↓			↓										↓
3	ERM-SB-B-8	↓	1015	↓			↓										↓
4	ERM-SB-C-4	↓	0930	↓			↓										↓
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
RELINQUISHED BY		DATE/TIME		RECEIVED BY		DATE/TIME		PROJECT INFORMATION						RECEIPT			
1. <i>Joe Tan</i>		9/23/10 1300		1. <i>[Signature]</i>		9-24-10 10:05		PROJECT NAME: Williamson Pickie						Total # of Containers: 16			
2. <i>[Signature]</i>		9-24-10 11:05		2. <i>[Signature]</i>		9/24/10 11:05		PROJECT #: _____						<input checked="" type="checkbox"/> Turnaround Time Request <input type="checkbox"/> Standard 5 Business Days <input type="checkbox"/> 2 Business Day Rush <input type="checkbox"/> Next Business Day Rush <input type="checkbox"/> Same Day Rush (auth req.) <input type="checkbox"/> Other _____			
3. _____		_____		3. _____		_____		SITE ADDRESS: 2411 Sullivan Rd, College Park, GA						STATE PROGRAM (if any): _____			
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD		OUT 9/23/10 VIA:		IN / / VIA:		SEND REPORT TO: Shatma Thompson						E-mail? <input checked="" type="checkbox"/> N, Fax? <input checked="" type="checkbox"/> N			
		CLIENT FedEx UPS MAIL COURIER		GREYHOUND OTHER _____				INVOICE TO: (IF DIFFERENT FROM ABOVE)						DATA PACKAGE: I II III IV			
								QUOTE #: _____ PO# _____									

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT. SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water

PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

Client: ERM-Southeast
Project: Williamson Dickie
Lab ID: 1009I42

Case Narrative

Sample Receiving Nonconformance:

A Trip Blank was provided but not listed on the Chain of Custody. The trip blank was analyzed at no cost to the client.

Analytical Environmental Services, Inc

Date: 1-Oct-10

Client: ERM-Southeast	Client Sample ID: ERM-SB-A-4
Project: Williamson Dickie	Collection Date: 9/23/2010 10:55:00 AM
Lab ID: 1009142-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5035)				
1,4-Dioxane	BRL	180		ug/Kg-dry	135698	1	09/29/2010 17:53	GK
Vinyl chloride	BRL	12		ug/Kg-dry	135698	1	09/29/2010 17:53	GK
1,1-Dichloroethene	BRL	6.0		ug/Kg-dry	135698	1	09/29/2010 17:53	GK
trans-1,2-Dichloroethene	BRL	6.0		ug/Kg-dry	135698	1	09/29/2010 17:53	GK
cis-1,2-Dichloroethene	BRL	6.0		ug/Kg-dry	135698	1	09/29/2010 17:53	GK
Trichloroethene	BRL	6.0		ug/Kg-dry	135698	1	09/29/2010 17:53	GK
Tetrachloroethene	BRL	6.0		ug/Kg-dry	135698	1	09/29/2010 17:53	GK
Surr: 4-Bromofluorobenzene	94.6	58.2-140		%REC	135698	1	09/29/2010 17:53	GK
Surr: Dibromofluoromethane	102	71.1-132		%REC	135698	1	09/29/2010 17:53	GK
Surr: Toluene-d8	96.2	77.6-119		%REC	135698	1	09/29/2010 17:53	GK
PERCENT MOISTURE D2216								
Percent Moisture	14.1	0		wt%	R181271	1	09/29/2010 13:00	AS

Qualifiers:

* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
BRL Below reporting limit	S Spike Recovery outside limits due to matrix
H Holding times for preparation or analysis exceeded	Narr See case narrative
N Analyte not NELAC certified	NC Not confirmed
B Analyte detected in the associated method blank	< Less than Result value
> Greater than Result value	

Analytical Environmental Services, Inc

Date: 1-Oct-10

Client: ERM-Southeast	Client Sample ID: ERM-SB-A-8
Project: Williamson Dickie	Collection Date: 9/23/2010 11:05:00 AM
Lab ID: 1009142-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5035)								
1,4-Dioxane	BRL	170		ug/Kg-dry	135698	1	09/29/2010 19:17	GK
Vinyl chloride	BRL	11		ug/Kg-dry	135698	1	09/29/2010 19:17	GK
1,1-Dichloroethene	BRL	5.6		ug/Kg-dry	135698	1	09/29/2010 19:17	GK
trans-1,2-Dichloroethene	BRL	5.6		ug/Kg-dry	135698	1	09/29/2010 19:17	GK
cis-1,2-Dichloroethene	BRL	5.6		ug/Kg-dry	135698	1	09/29/2010 19:17	GK
Trichloroethene	BRL	5.6		ug/Kg-dry	135698	1	09/29/2010 19:17	GK
Tetrachloroethene	BRL	5.6		ug/Kg-dry	135698	1	09/29/2010 19:17	GK
Surr: 4-Bromofluorobenzene	92.5	58.2-140		%REC	135698	1	09/29/2010 19:17	GK
Surr: Dibromofluoromethane	101	71.1-132		%REC	135698	1	09/29/2010 19:17	GK
Surr: Toluene-d8	96.3	77.6-119		%REC	135698	1	09/29/2010 19:17	GK
PERCENT MOISTURE D2216								
Percent Moisture	16.5	0		wt%	R181271	1	09/29/2010 13:00	AS

Qualifiers:

* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
BRL Below reporting limit	S Spike Recovery outside limits due to matrix
H Holding times for preparation or analysis exceeded	Narr See case narrative
N Analyte not NELAC certified	NC Not confirmed
B Analyte detected in the associated method blank	< Less than Result value
> Greater than Result value	

Analytical Environmental Services, Inc

Date: 1-Oct-10

Client: ERM-Southeast	Client Sample ID: ERM-SB-B-8
Project: Williamson Dickie	Collection Date: 9/23/2010 10:15:00 AM
Lab ID: 1009142-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5035)				
1,4-Dioxane	BRL	150		ug/Kg-dry	135698	1	09/29/2010 19:48	GK
Vinyl chloride	BRL	9.9		ug/Kg-dry	135698	1	09/29/2010 19:48	GK
1,1-Dichloroethene	BRL	4.9		ug/Kg-dry	135698	1	09/29/2010 19:48	GK
trans-1,2-Dichloroethene	BRL	4.9		ug/Kg-dry	135698	1	09/29/2010 19:48	GK
cis-1,2-Dichloroethene	BRL	4.9		ug/Kg-dry	135698	1	09/29/2010 19:48	GK
Trichloroethene	BRL	4.9		ug/Kg-dry	135698	1	09/29/2010 19:48	GK
Tetrachloroethene	BRL	4.9		ug/Kg-dry	135698	1	09/29/2010 19:48	GK
Surr: 4-Bromofluorobenzene	93.3	58.2-140		%REC	135698	1	09/29/2010 19:48	GK
Surr: Dibromofluoromethane	102	71.1-132		%REC	135698	1	09/29/2010 19:48	GK
Surr: Toluene-d8	96.1	77.6-119		%REC	135698	1	09/29/2010 19:48	GK
PERCENT MOISTURE D2216								
Percent Moisture	16.5	0		wt%	R181271	1	09/29/2010 13:00	AS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value

Analytical Environmental Services, Inc

Date: 1-Oct-10

Client: ERM-Southeast	Client Sample ID: ERM-SB-C-4
Project: Williamson Dickie	Collection Date: 9/23/2010 9:30:00 AM
Lab ID: 1009142-004	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B					(SW5035)			
1,4-Dioxane	BRL	150		ug/Kg-dry	135698	1	09/29/2010 20:18	GK
Vinyl chloride	BRL	10		ug/Kg-dry	135698	1	09/29/2010 20:18	GK
1,1-Dichloroethene	BRL	5.0		ug/Kg-dry	135698	1	09/29/2010 20:18	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/Kg-dry	135698	1	09/29/2010 20:18	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/Kg-dry	135698	1	09/29/2010 20:18	GK
Trichloroethene	BRL	5.0		ug/Kg-dry	135698	1	09/29/2010 20:18	GK
Tetrachloroethene	6.0	5.0		ug/Kg-dry	135698	1	09/29/2010 20:18	GK
Surr: 4-Bromofluorobenzene	88.8	58.2-140		%REC	135698	1	09/29/2010 20:18	GK
Surr: Dibromofluoromethane	102	71.1-132		%REC	135698	1	09/29/2010 20:18	GK
Surr: Toluene-d8	95.6	77.6-119		%REC	135698	1	09/29/2010 20:18	GK
PERCENT MOISTURE D2216								
Percent Moisture	13.8	0		wt%	R181271	1	09/29/2010 13:00	AS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value

Client: ERM-Southeast	Client Sample ID: TRIP BLANK
Project: Williamson Dickie	Collection Date: 9/24/2010
Lab ID: 1009142-005	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,4-Dioxane	BRL	150		ug/L	135636	1	09/28/2010 16:12	GK
Vinyl chloride	BRL	2.0		ug/L	135636	1	09/28/2010 16:12	GK
1,1-Dichloroethene	BRL	5.0		ug/L	135636	1	09/28/2010 16:12	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	135636	1	09/28/2010 16:12	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	135636	1	09/28/2010 16:12	GK
Trichloroethene	BRL	5.0		ug/L	135636	1	09/28/2010 16:12	GK
Tetrachloroethene	BRL	5.0		ug/L	135636	1	09/28/2010 16:12	GK
Surr: 4-Bromofluorobenzene	89.6	60.1-127		%REC	135636	1	09/28/2010 16:12	GK
Surr: Dibromofluoromethane	107	79.6-126		%REC	135636	1	09/28/2010 16:12	GK
Surr: Toluene-d8	96.3	78-116		%REC	135636	1	09/28/2010 16:12	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client ERM Work Order Number 1009I42

Checklist completed by PLM Date 9/24/10
Signature Date

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present
Custody seals intact on shipping container/cooler? Yes No Not Present
Custody seals intact on sample bottles? Yes No Not Present

Container/Temp Blank temperature in compliance? (4°C±2)* Yes No
Cooler #1 3.4°C Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes No
Chain of custody signed when relinquished and received? Yes No
Chain of custody agrees with sample labels? Yes No
Samples in proper container/bottle? Yes No
Sample containers intact? Yes No
Sufficient sample volume for indicated test? Yes No
All samples received within holding time? Yes No
Was TAT marked on the COC? Yes No
Proceed with Standard TAT as per project history? Yes No Not Applicable
Water - VOA vials have zero headspace? No VOA vials submitted Yes No
Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by _____
Sample Condition: Good Other(Explain) _____
(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: ERM-Southeast
Project Name: Williamson Dickie
Workorder: 1009I42

ANALYTICAL QC SUMMARY REPORT

BatchID: 135636

Sample ID: MB-135636	Client ID:	Units: ug/L	Prep Date: 09/28/2010	Run No: 181090							
SampleType: MBLK	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 135636	Analysis Date: 09/28/2010	Seq No: 3768672							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	0
1,4-Dioxane	BRL	150	0	0	0	0	0	0	0	0	0
cis-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	0
Tetrachloroethene	BRL	5.0	0	0	0	0	0	0	0	0	0
trans-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	0
Trichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	0
Vinyl chloride	BRL	2.0	0	0	0	0	0	0	0	0	0
Surr: 4-Bromofluorobenzene	45.59	0	50	0	91.2	60.1	127	0	0	0	0
Surr: Dibromofluoromethane	51.15	0	50	0	102	79.6	126	0	0	0	0
Surr: Toluene-d8	47.30	0	50	0	94.6	78	116	0	0	0	0

Sample ID: LCS-135636	Client ID:	Units: ug/L	Prep Date: 09/28/2010	Run No: 181090							
SampleType: LCS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 135636	Analysis Date: 09/28/2010	Seq No: 3768671							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	52.40	5.0	50	0	105	61.4	146	0	0	0	0
Trichloroethene	44.89	5.0	50	0	89.8	74.4	130	0	0	0	0
Surr: 4-Bromofluorobenzene	47.77	0	50	0	95.5	60.1	127	0	0	0	0
Surr: Dibromofluoromethane	52.95	0	50	0	106	79.6	126	0	0	0	0
Surr: Toluene-d8	50.17	0	50	0	100	78	116	0	0	0	0

Sample ID: 1009J06-001AMS	Client ID:	Units: ug/L	Prep Date: 09/28/2010	Run No: 181090							
SampleType: MS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 135636	Analysis Date: 09/28/2010	Seq No: 3768674							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	66.95	5.0	50	0	134	48.8	172	0	0	0	0
Trichloroethene	80.75	5.0	50	26.55	108	70.3	140	0	0	0	0
Surr: 4-Bromofluorobenzene	43.35	0	50	0	86.7	60.1	127	0	0	0	0

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: ERM-Southeast
 Project Name: Williamson Dickie
 Workorder: 1009I42

ANALYTICAL QC SUMMARY REPORT

BatchID: 135636

Sample ID: 1009J06-001AMS	Client ID:	Units: ug/L	Prep Date: 09/28/2010	Run No: 181090							
SampleType: MS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 135636	Analysis Date: 09/28/2010	Seq No: 3768674							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Surr: Dibromofluoromethane	50.80	0	50	0	102	79.6	126	0	0	0	
Surr: Toluene-d8	47.68	0	50	0	95.4	78	116	0	0	0	

Sample ID: 1009J06-001AMSD	Client ID:	Units: ug/L	Prep Date: 09/28/2010	Run No: 181090							
SampleType: MSD	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 135636	Analysis Date: 09/28/2010	Seq No: 3768675							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	71.19	5.0	50	0	142	48.8	172	66.95	6.14	21.6	
Trichloroethene	77.48	5.0	50	26.55	102	70.3	140	80.75	4.13	20.3	
Surr: 4-Bromofluorobenzene	43.92	0	50	0	87.8	60.1	127	43.35	0	0	
Surr: Dibromofluoromethane	51.69	0	50	0	103	79.6	126	50.80	0	0	
Surr: Toluene-d8	46.19	0	50	0	92.4	78	116	47.68	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: ERM-Southeast
Project Name: Williamson Dickie
Workorder: 1009I42

ANALYTICAL QC SUMMARY REPORT

BatchID: 135698

Sample ID: MB-135698	Client ID:	Units: ug/Kg	Prep Date: 09/29/2010	Run No: 181182							
SampleType: MBLK	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 135698	Analysis Date: 09/29/2010	Seq No: 3770484							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
1,4-Dioxane	BRL	150	0	0	0	0	0	0	0	0	
cis-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Tetrachloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Vinyl chloride	BRL	10	0	0	0	0	0	0	0	0	
Surr: 4-Bromofluorobenzene	46.81	0	50	0	93.6	58.2	140	0	0	0	
Surr: Dibromofluoromethane	49.27	0	50	0	98.5	71.1	132	0	0	0	
Surr: Toluene-d8	46.46	0	50	0	92.9	77.6	119	0	0	0	

Sample ID: LCS-135698	Client ID:	Units: ug/Kg	Prep Date: 09/29/2010	Run No: 181182							
SampleType: LCS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 135698	Analysis Date: 09/29/2010	Seq No: 3770485							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	57.82	5.0	50	0	116	66.1	158	0	0	0	
Trichloroethene	48.48	5.0	50	0	97	74.5	137	0	0	0	
Surr: 4-Bromofluorobenzene	47.13	0	50	0	94.3	58.2	140	0	0	0	
Surr: Dibromofluoromethane	46.84	0	50	0	93.7	71.1	132	0	0	0	
Surr: Toluene-d8	45.41	0	50	0	90.8	77.6	119	0	0	0	

Sample ID: 1009E63-009AMS	Client ID:	Units: ug/Kg-dry	Prep Date: 09/29/2010	Run No: 181182							
SampleType: MS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 135698	Analysis Date: 09/29/2010	Seq No: 3770487							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	61.87	5.8	58.29	0	106	60.6	160	0	0	0	
Trichloroethene	55.51	5.8	58.29	0	95.2	70.3	147	0	0	0	
Surr: 4-Bromofluorobenzene	53.44	0	58.29	0	91.7	58.2	140	0	0	0	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: ERM-Southeast
 Project Name: Williamson Dickie
 Workorder: 1009I42

ANALYTICAL QC SUMMARY REPORT

BatchID: 135698

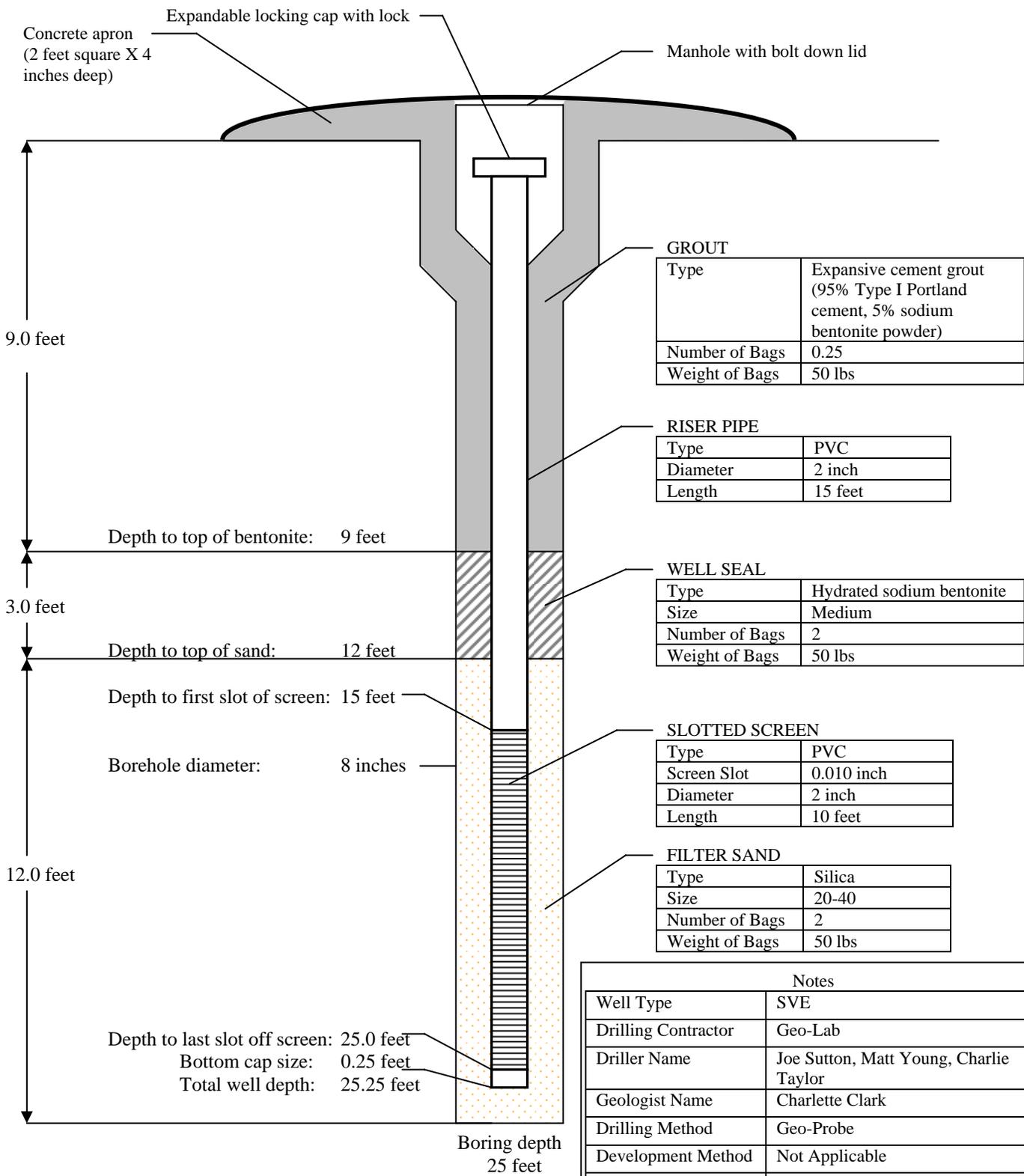
Sample ID: 1009E63-009AMS	Client ID:	Units: ug/Kg-dry	Prep Date: 09/29/2010	Run No: 181182							
SampleType: MS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 135698	Analysis Date: 09/29/2010	Seq No: 3770487							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Surr: Dibromofluoromethane	56.74	0	58.29	0	97.3	71.1	132	0	0	0	
Surr: Toluene-d8	54.50	0	58.29	0	93.5	77.6	119	0	0	0	

Sample ID: 1009E63-009AMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 09/29/2010	Run No: 181182							
SampleType: MSD	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 135698	Analysis Date: 09/29/2010	Seq No: 3770488							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	63.69	5.8	58.29	0	109	60.6	160	61.87	2.9	30.9	
Trichloroethene	54.15	5.8	58.29	0	92.9	70.3	147	55.51	2.47	28	
Surr: 4-Bromofluorobenzene	50.88	0	58.29	0	87.3	58.2	140	53.44	0	0	
Surr: Dibromofluoromethane	57.17	0	58.29	0	98.1	71.1	132	56.74	0	0	
Surr: Toluene-d8	56.07	0	58.29	0	96.2	77.6	119	54.50	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		



Notes	
Well Type	SVE
Drilling Contractor	Geo-Lab
Driller Name	Joe Sutton, Matt Young, Charlie Taylor
Geologist Name	Charlette Clark
Drilling Method	Geo-Probe
Development Method	Not Applicable
Drilling Start/End Date	February 17, 2011
Well Construction Start/End Date	February 17, 2011/ February 18, 2011

*Not to scale
Well construction measurements are rounded to nearest 0.1 foot

<i>Dwn:</i> CMC	<i>Appr:</i>	ERM PROJECT #/HSI SITE # 0121103/10127	FIGURE 1	ERM 300 Chastain Center Blvd., Ste. 375 Kennesaw, Georgia 30144 PH: (770) 590-8383 FAX: (770) 590-9164
<i>Dwg Date:</i> 2/25/11	<i>Revision</i> 1	Williamson-Dickie 2411 Sullivan Road College Park, Georgia	<i>MW-39 Well</i> Construction Detail	
MW-39				

ERM		Environmental Resources Management				SOIL BORING # MW-39	
DATE DRILLED:		2/17/2011				PROJECT NUMBER: 0121103	
START TIME:		10:00				LOCATION: College Park, Georgia	
STOP TIME:		11:30				DRILLING COMPANY: EM-Services	
COMPLETION DEPTH:		25 ft bgs				DRILLERS NAME(S): Joe Sutton, Matt Young, Charlie Taylor	
GROUNDWATER LEVEL:		NA				DRILL RIG/METHOD: Geo-Probe	
BORING DIAMETER:		8" Nominal				SAMPLING METHOD: NA	
WELL SCREEN LENGTH:		10 ft				FIELD SCREENING EQUIPMENT:	
						LOGGED BY: C. Clark	
						Page 1 of 1	
WELL DETAIL	DEPTH	USCS	BLOW COUNTS	INCHES RECOVERED	PID (ppm)	DESCRIPTION	
NA	0		NA	NA	NA		
	2					Hand Auger to 6 ft below ground surface (bgs)- asphalt layer from 0-1 ft. Then reddish brown sandy CLAY	
	4						
NA	6	CL	NA	NA	48		
	8					Reddish-orange CLAY with some silt, medium stiff, dry. Transitions to tan soft clay, slightly moist at 11 ft with trace mica	
	10						
NA	10	CL	NA	NA	60		
	12					Tan, soft, silty CLAY to 14 ft then reddish brown soft, silty clay	
	14						
	16						
NA	16	CL	NA	NA	60		
	18					Moist, micaceous silt with trace CLAY. Very soft. Transitions to red and white, then at 20 ft becomes red silty CLAY, soft, moist micaceous and red from 20 ft to 22 ft bgs	
	20						
NA	22	CL	NA	NA	60		
	24					SAA except wet. Red and white silty, micaceous CLAY. Very soft	
	26						
NA	26	CL	NA	NA	60		
						Boring terminated at 27 ft bgs	

Key

NA = Not Applicable



February 28, 2011

Shanna Thompson
ERM-Southeast
300 Chastain Center Blvd, Suite 375
Kennesaw GA 30144

TEL: (770) 590-8383
FAX: (770) 590-9164

RE: Williamson-Dickie

Dear Shanna Thompson:

Order No: 1102J35

Analytical Environmental Services, Inc. received 3 samples on February 23, 2011 12:35 pm for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/10-06/30/11.
- AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/11.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Brian Rohr
Project Manager



COMPANY: <u>ERM Southeast</u>		ADDRESS: <u>300 Chastain Center Blvd. Ste 375 Kennesaw, GA 30144</u>			ANALYSIS REQUESTED				Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.		No # of Containers
PHONE: <u>770-590-0383</u>		FAX:			PRESERVATION (See codes)						
SAMPLED BY: <u>Amy Griswold</u>		SIGNATURE: <u>Amy Griswold</u>							REMARKS		
#	SAMPLE ID	DATE	TIME	Grab	Composite	Matrix (See codes)	REMARKS				
1	<u>MW-39</u>	<u>2/23/11</u>	<u>10:50</u>	<input checked="" type="checkbox"/>		<u>GW</u>					<u>Report 24 hr TAT</u> <u>Standard TAT</u>
2	<u>DWP</u>	<u>2/23/11</u>	<u>---</u>	<input checked="" type="checkbox"/>		<u>GW</u>	REMARKS				
3	<u>TRIP BLANK</u>	<u>2/23/11</u>									REMARKS
4							REMARKS				
5											REMARKS
6							REMARKS				
7											REMARKS
8							REMARKS				
9											REMARKS
10							REMARKS				
11											REMARKS
12							REMARKS				
13											REMARKS
14							REMARKS				
RELINQUISHED BY: <u>Amy Griswold</u>		DATE/TIME: <u>2/23/11 12:35</u>	RECEIVED BY: <u>[Signature]</u>		DATE/TIME: <u>2/23/11 12:35</u>	PROJECT INFORMATION					RECEIPT
						PROJECT NAME: <u>Williamson-Dickie</u>				Total # of Containers	
						PROJECT #: <u>0121103</u>				Turnaround Time Request <input type="radio"/> Standard 5 Business Days <input type="radio"/> 2 Business Day Rush <input type="radio"/> Next Business Day Rush <input type="radio"/> Same Day Rush (auth req.) <input type="radio"/> Other _____	
						SITE ADDRESS: <u>241 Sullivan Rd College Park, GA</u>					
						SEND REPORT TO: <u>Shahina Thompson</u>				STATE PROGRAM (if any): _____	
SPECIAL INSTRUCTIONS/COMMENTS: <u>Report only: 1,1-DCE, cis-1,2DCE, trans-1,2-DCE, PCE, TCE, vinyl chloride, and 1A-Dioxane.</u>		SHIPMENT METHOD		INVOICE TO:		QUOTE #:				E-mail? Y/N; Fax? Y/N	
		OUT / / VIA: <input checked="" type="checkbox"/> CLIENT FedEx UPS MAIL COURIER <input type="checkbox"/> GREYHOUND OTHER _____		(IF DIFFERENT FROM ABOVE)		PO#:				DATA PACKAGE: I II III IV	

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
 SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water
 PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

Analytical Environmental Services, Inc

Date: 28-Feb-11

Client: ERM-Southeast	Client Sample ID: MW-39
Project Name: Williamson-Dickie	Collection Date: 2/23/2011 10:50:00 AM
Lab ID: 1102J35-001	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,4-Dioxane	BRL	150		ug/L	142561	1	02/24/2011 11:27	SB
Vinyl chloride	BRL	2.0		ug/L	142561	1	02/24/2011 11:27	SB
1,1-Dichloroethene	BRL	5.0		ug/L	142561	1	02/24/2011 11:27	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	142561	1	02/24/2011 11:27	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	142561	1	02/24/2011 11:27	SB
Trichloroethene	BRL	5.0		ug/L	142561	1	02/24/2011 11:27	SB
Tetrachloroethene	BRL	5.0		ug/L	142561	1	02/24/2011 11:27	SB
Surr: 4-Bromofluorobenzene	90.5	64.7-130		%REC	142561	1	02/24/2011 11:27	SB
Surr: Dibromofluoromethane	90.9	80.7-129		%REC	142561	1	02/24/2011 11:27	SB
Surr: Toluene-d8	90.4	71.1-120		%REC	142561	1	02/24/2011 11:27	SB

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 28-Feb-11

Client: ERM-Southeast	Client Sample ID: DUP
Project Name: Williamson-Dickie	Collection Date: 2/23/2011
Lab ID: 1102J35-002	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,4-Dioxane	BRL	150		ug/L	142561	1	02/24/2011 11:55	SB
Vinyl chloride	BRL	2.0		ug/L	142561	1	02/24/2011 11:55	SB
1,1-Dichloroethene	BRL	5.0		ug/L	142561	1	02/24/2011 11:55	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	142561	1	02/24/2011 11:55	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	142561	1	02/24/2011 11:55	SB
Trichloroethene	BRL	5.0		ug/L	142561	1	02/24/2011 11:55	SB
Tetrachloroethene	BRL	5.0		ug/L	142561	1	02/24/2011 11:55	SB
Surr: 4-Bromofluorobenzene	90.3	64.7-130		%REC	142561	1	02/24/2011 11:55	SB
Surr: Dibromofluoromethane	92.3	80.7-129		%REC	142561	1	02/24/2011 11:55	SB
Surr: Toluene-d8	89.1	71.1-120		%REC	142561	1	02/24/2011 11:55	SB

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: ERM-Southeast	Client Sample ID: TRIP BLANK
Project Name: Williamson-Dickie	Collection Date: 2/23/2011
Lab ID: 1102J35-003	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,4-Dioxane	BRL	150		ug/L	142561	1	02/24/2011 10:58	SB
Vinyl chloride	BRL	2.0		ug/L	142561	1	02/24/2011 10:58	SB
1,1-Dichloroethene	BRL	5.0		ug/L	142561	1	02/24/2011 10:58	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	142561	1	02/24/2011 10:58	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	142561	1	02/24/2011 10:58	SB
Trichloroethene	BRL	5.0		ug/L	142561	1	02/24/2011 10:58	SB
Tetrachloroethene	BRL	5.0		ug/L	142561	1	02/24/2011 10:58	SB
Surr: 4-Bromofluorobenzene	92.5	64.7-130		%REC	142561	1	02/24/2011 10:58	SB
Surr: Dibromofluoromethane	89.2	80.7-129		%REC	142561	1	02/24/2011 10:58	SB
Surr: Toluene-d8	90.4	71.1-120		%REC	142561	1	02/24/2011 10:58	SB

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client ERM

Work Order Number 1102J35

Checklist completed by [Signature] Date 2-23-11

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Container/Temp Blank temperature in compliance? (4°C±2)* Yes No

Cooler #1 38 Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler #5 _____ Cooler #6 _____

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Was TAT marked on the COC? Yes No

Proceed with Standard TAT as per project history? Yes No Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted Yes No

Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by _____

Sample Condition: Good Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: ERM-Southeast
Project Name: Williamson-Dickie
Workorder: 1102J35

ANALYTICAL QC SUMMARY REPORT

BatchID: 142561

Sample ID: MB-142561	Client ID:	Units: ug/L	Prep Date: 02/24/2011	Run No: 191162							
SampleType: MBLK	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 142561	Analysis Date: 02/24/2011	Seq No: 3988922							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	0
1,4-Dioxane	BRL	150	0	0	0	0	0	0	0	0	0
cis-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	0
Tetrachloroethene	BRL	5.0	0	0	0	0	0	0	0	0	0
trans-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	0
Trichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	0
Vinyl chloride	BRL	2.0	0	0	0	0	0	0	0	0	0
Surr: 4-Bromofluorobenzene	44.37	0	50	0	88.7	64.7	130	0	0	0	0
Surr: Dibromofluoromethane	48.25	0	50	0	96.5	80.7	129	0	0	0	0
Surr: Toluene-d8	44.59	0	50	0	89.2	71.1	120	0	0	0	0

Sample ID: LCS-142561	Client ID:	Units: ug/L	Prep Date: 02/24/2011	Run No: 191162							
SampleType: LCS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 142561	Analysis Date: 02/24/2011	Seq No: 3988913							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	39.63	5.0	50	0	79.3	60	140	0	0	0	0
Trichloroethene	50.57	5.0	50	0	101	70	130	0	0	0	0
Surr: 4-Bromofluorobenzene	50.45	0	50	0	101	64.7	130	0	0	0	0
Surr: Dibromofluoromethane	46.87	0	50	0	93.7	80.7	129	0	0	0	0
Surr: Toluene-d8	47.41	0	50	0	94.8	71.1	120	0	0	0	0

Sample ID: 1102146-003AMS	Client ID:	Units: ug/L	Prep Date: 02/24/2011	Run No: 191162							
SampleType: MS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 142561	Analysis Date: 02/24/2011	Seq No: 3989705							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	43.77	5.0	50	0	87.5	46.2	183	0	0	0	0
Trichloroethene	50.35	5.0	50	0	101	70.5	149	0	0	0	0
Surr: 4-Bromofluorobenzene	45.41	0	50	0	90.8	64.7	130	0	0	0	0

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: ERM-Southeast
 Project Name: Williamson-Dickie
 Workorder: 1102J35

ANALYTICAL QC SUMMARY REPORT

BatchID: 142561

Sample ID: 1102146-003AMS	Client ID:	Units: ug/L	Prep Date: 02/24/2011	Run No: 191162							
SampleType: MS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 142561	Analysis Date: 02/24/2011	Seq No: 3989705							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Surr: Dibromofluoromethane	45.02	0	50	0	90	80.7	129	0	0	0	
Surr: Toluene-d8	43.63	0	50	0	87.3	71.1	120	0	0	0	

Sample ID: 1102146-003AMSD	Client ID:	Units: ug/L	Prep Date: 02/24/2011	Run No: 191162							
SampleType: MSD	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 142561	Analysis Date: 02/24/2011	Seq No: 3989842							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	45.78	5.0	50	0	91.6	46.2	183	43.77	4.49	20	
Trichloroethene	50.76	5.0	50	0	102	70.5	149	50.35	0.811	20	
Surr: 4-Bromofluorobenzene	43.10	0	50	0	86.2	64.7	130	45.41	0	0	
Surr: Dibromofluoromethane	44.14	0	50	0	88.3	80.7	129	45.02	0	0	
Surr: Toluene-d8	43.59	0	50	0	87.2	71.1	120	43.63	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

GROUND WATER SAMPLING LOG SHEET

Client: Williamson-Dickie Project No.: 0121103
 Site/Location: College Park, GA
 Sampling Date: 10-20-10
 Sampler's Name: Charlotte Clark
 Well ID: MW-10.A
 Pump Type/Model: Peristaltic
 Total Depth (ft): 54.5
 Tubing Material: 1/4" LDPE
 Depth to Water (ft): 12.6
 Pump Intake Depth (ft): 50
 Well Diameter (in): 2"
 Start/Stop Purge Time: 1:35
 Purge Rate (L/min): 0.2
 Well Volume (gal) = 0.0416ft³:
 Total Purge Volume (L): 40 " 3.5
 Laboratory Analyses: ICE, PCB, VC, 1,1,1,2,2,2 TCE (TRANS Y C1'S)
 pump head discharge (Inorganics including cyanide)
 Bladder pump = pump discharge (all anal/yes)
 vacuum jug (SVOCS)

Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
0.2 water clear, no odor
water level dropped ~ 1' lowered rate
Sample collected

Time	Temp. (°C)	Spec. Cond. (µmS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTU)	Purge Volume (L)	H ₂ O Depth (ft)
1235	23.80	0.047	11.33	7.04	163.3	1.5	start	13.35
1240	19.58	0.090	9.00	6.37	66.4	1.0	1.0	13.95
1245	19.11	0.089	8.50	6.43	55.0	0.75	2.0	14.22
1250	18.78	0.089	8.09	6.09	63.9	0.54	2.5	14.72
1255	18.65	0.089	8.21	6.17	60.3	0.28	3.0	14.91
1300	18.55	0.089	8.49	6.21	58.6	0.25	3.5	14.95
1305							4.0	

Stabilizing Criteria: +/- 1°C, +/- 3%, +/- 10% (see note below), +/- 10 mV (see note below), +/- 10% or <10 NTUs (see note below)

(1) - DO readings depth to bottom of well until after purging and sampling to reduce suspended fines that may be resting on the well bottom.
 (2) - Purge rate to be 0.5 gpm or less or well until after purging and sampling to reduce suspended fines that may be resting on the well bottom.
 (3) - Sampling rate to be 0.25 gpm or less.
 (4) - Field parameter measurements to be recorded every 3 to 5 minutes.
 (5) - Stabilization criteria based on three most recent consecutive measurements.
 (6) - Monitor DW every 5 min. Well drawdown to be 0.3 ft or less. Purge/sampling rate to be lowered, as necessary to keep drawdown below 0.3 ft.
 (7) - Void stabilization criterion for the Groundwater Sampling - S&S Standard Operating Procedure.
 (8) - ORP is not a stabilization criterion for the Groundwater Sampling - S&S Standard Operating Procedure.

GROUND WATER SAMPLING LOG SHEET



Client: Wilkinson - Dixie Project No.: 00121103
 Site/Location: College Park, GA ~~100586~~

Well ID: MW-19 Pump Type/Model: Peristaltic
 Total Depth (ft): 75 Tubing Material: 1/4" LDPE
 Depth to Water (ft): 21.10 Pump Intake Depth (ft):
 Well Diameter (in): 2" Start/Stop Purge Time:
 Well Volume (gal) = 0.041d²h: 1.5 Purge Rate (L/min):
 d = well diameter (inches) h = length of water column (feet)
 Well Condition: good Total Purge Volume (L):

Sampling Date: 10-14-10
 Sampler's Name: Charlette Clark
 Sample Collection Time: 1510
 Sample Purge Rate (L/min): 2.0 NA
 Sample ID: MW-19-20101015-01
 QA/QC Collected? No
 QA/QC ID: NA
 Laboratory Analyses: VOCs
 pump head discharge (Inorganics including cyanide)
 Bailer (only used if necessary)

Time	Temp. (°C)	Spec. Cond. (µmS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H ₂ O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
1440	21.20	0.074	2.69	6.31	55.3	3.2	1.5	21.15	odor
1445	20.89	0.073	0.47	6.14	53.0	2.1	1.5	21.28	
1450	20.70	0.072	0.29	6.14	52.8	1.49	1.0	21.34	
1455	20.76	0.071	0.25	6.13	51.7	1.25	1.0	21.34	
1500	20.81	0.071	0.22	6.12	53.2	1.15	1.5	21.34	
									Sample time 1520-1610 1510 -gases in sample bottles

Stabilizing Criteria: +/- 1°C, +/- 3%, +/- 10 mV (see note below), +/- 10% or <10 NTUs (see note below)
 (1) - Do not measure depth to bottom of well until after purging and sampling to reduce from possible fines that may be resting on the well bottom.
 (2) - Purge rate to be 0.5 lpm or less.
 (3) - Sampling rate to be 0.25 lpm or less.
 (4) - Field parameter measurements to be recorded every 3 to 5 minutes.
 (5) - Stabilization criteria based on three most recent consecutive measurements.
 (6) - Monitor DJI for 5 minutes before sampling to ensure that the sampling rate is below the necessary to keep drawdown below 0.3 ft.
 (7) - Use the following criteria for the "Good Laboratory Practice" (GLP) Standard Operating Procedure.
 (8) - ORP is not a stabilization criterion for the Groundwater sampling. SISO Standard Operating Procedure.

GROUND WATER SAMPLING LOG SHEET

Client: Williamson Dickie College Park, GA Project No.: 00121103
 Sampling Date: 10-21-2010 Sampler's Name: Charlotte Clark
 Well ID: MW-28R Pump Type/Model: Peristaltic
 Well Depth (ft): 33 Tubing Material: 1/4" IRPE
 Depth to Water (ft): 15.35' Pump Intake Depth (ft): 15' 26.5'
 Well Diameter (in): 2" Start/Stop Purge Times: 1:35
 Well Volume (gal) = 0.0418 * h: 300 Purge Rate (L/min): 0.2 L/min
 Well Condition: good Total Purge Volume (L): 5.5

Laboratory Analyses: VOCS (see chain)
 QMOC Collector?: NO
 QMOC ID: NA
 Laboratory Analyses: VOCS (see chain)
 pump head discharge (Inorganics including cyanide)
 Bailor (only used if necessary)

Time	Temp (°C)	Spec. Cond. (µmS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H ₂ O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc)
1320	21.01	0.497	0.94	5.51	51.9		Start	15.35	0.3 L/min
1325	21.4	0.433	3.17	4.46	110.1	150	5.0	15.35	Water cloudy, very flocculent
1330	20.00	0.424	0.48	4.36	73.7	39	1.0	16.40	Very foul odor, solids observed
1335	20.60	0.421	0.35	4.32	67.3	60	3.0	17.4	Flowing through discharge tube
1340	20.53	0.720	0.15	4.29	62.2	45	3.0	19.3	Water still flocculent, white particles
1345	20.77	0.428	0.11	4.27	60.4	30	4.0	18.5	reduced purge rate to 0.5
1350	20.49	0.497	0.10	4.27	59.1	25	4.5	18.75	Water clearer, not as flocculent
	20.34	0.498	0.10	4.27	58.7	12	5.0	18.77	
	20.27	0.499	0.10	4.26	58.3	10	5.5	18.78	
									Sample collected @ 1355

Residual lactate in well
 reduce purge rate
 suspended

01 - Drawn measure depth to bottom of well until after purging and sampling to ensure corresponding flow that may be resting on the well bottom
 02 - Sampling rate to be 0.25 lpm or less
 03 - Field parameter measurements to be recorded every 3 to 5 minutes
 04 - Stabilization criteria based on three most recent consecutive measurements
 05 - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft.
 06 - DO is not a stabilization criterion for the Groundwater sampling. SISO Standard Operating Procedure.
 07 - ORP is not a stabilization criterion for the Groundwater sampling. SISO Standard Operating Procedure.



October 28, 2010

Shanna Thompson
ERM-Southeast
300 Chastain Center Blvd, Suite 375
Kennesaw GA 30144

TEL: (770) 590-8383
FAX: (770) 590-9164

RE: Williamson Dickie

Dear Shanna Thompson:

Order No: 1010J94

Analytical Environmental Services, Inc. received 29 samples on 10/22/2010 11:00:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/10-06/30/11.
- AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/11.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Brian Rohr
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC
 3785 Presidential Parkway, Atlanta GA 30340-3704
AES TEL: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

10/23/10
 Mr. D
 1010J94 Work Order: 1010173

Date: 10-22-10 Page 1 of 2

#	SAMPLE ID	SAMPLED		Grab	Composite	Matrix (See codes)	ANALYSIS REQUESTED		REMARKS	No # of Containers
		DATE	TIME				PRESERVATION (See codes)	Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.		
1	MW-20-20101014-01	10-14-10	1430	X		GW			Analyze only for	2
2	MW-19-20101014-01	10-14-10	1543100	X					PCE/TCE/VC	2
3	MW-25-20101014-01	10-14-10	1310	X					1-4 Dioxane	2
4	MW-29B-20101015-01	10-15-10	1230	X					1,1-DCE	2
5	MW-35-20101015-01	10-15-10	1415	X					cis-1,2 DCE	2
6	MW-35A-20101015-01	10-15-10	1330	X					trans 1,2 DCE	2
7	MW-36-20101015-01	10-15-10	1130	X						2
8	MW-37A-20101015-01	10-15-10	1035	X						2
9	MW-38-20101018-01	10-18-10	0920	X						2
10	MW-38A-20101018-01	10-18-10	1025	X						2
11	MW-32-20101018-01	10-18-10	1120	X						2
12	MW-33-20101018-01	10-18-10	1320	X						2
13	MW-12-20101018-01	10-18-10	1420	X						2
14	DUP-1	10-18-10	1200	X						2
RELINQUISHED BY: <i>John Thompson</i>		DATE/TIME RECEIVED BY: <i>John Thompson</i>	DATE/TIME: <i>10/22/10</i>	PROJECT NAME: <i>Williamson Ditch</i>		PROJECT INFORMATION: <i>PROJECT #: 0121103</i>		RECEIPT: <i>Williamson Ditch</i>		Total # of Containers: <i>28</i>
SPECIAL INSTRUCTIONS/COMMENTS: <i>Analyze for the 7 listed compounds</i>		SHIPMENT METHOD: <i>Greyhound</i>		VIA: <i>Greyhound</i>		INVOICE TO: <i>Shearn Thompson</i>		STATE PROGRAM (if any):		Turnaround Time Request: <i>Standard 5 Business Days</i>
ADDRESS: <i>300 Chestnut Center Blvd Ste 375 Kennesaw GA 30144</i>		SIGNATURE: <i>Charlotte Clark</i>		DATE/TIME: <i>10/22/10 11:00</i>		SITE ADDRESS: <i>2411 Sullivan Rd College Park, GA</i>		E-mail? Y/N: <i>Y</i>		Standard 5 Business Days
PHONE: <i>770-590-8383</i>		FAX: <i>770-590-9164</i>		DATE/TIME: <i>10/22/10 11:00</i>		SEND REPORT TO: <i>Shearn Thompson</i>		Fax? Y/N: <i>N</i>		2 Business Day Rush
COMPANY: <i>ERM</i>		SIGNATURE: <i>Charlotte Clark</i>		DATE/TIME: <i>10/22/10 11:00</i>		INVOICE TO: <i>(IF DIFFERENT FROM ABOVE)</i>		DATA PACKAGE: <i>I II III IV</i>		Next Business Day Rush
SAMPLED BY: <i>Charlotte Clark</i>		SIGNATURE: <i>Charlotte Clark</i>		DATE/TIME: <i>10/22/10 11:00</i>		QUOTE #:		Other: <i>00000</i>		Same Day Rush (auth req)

NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.

SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water

PRESERVATIVE CODES: H+1 = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice NA = None

White Copy - Original; Yellow Copy - Client

Client: ERM-Southeast
Project: Williamson Dickie
Lab ID: 1010J94

Case Narrative

Sample Receiving Nonconformance:

Sample 1010J94-003A had a collection date of 10/15/2010 listed on the container, while the COC had a collection date of 10/14/2010. The sample was reported according to the Chain of Custody.

A Trip Blank was provided, but not listed on the Chain of Custody. Trip blank analyzed at no cost to the client.

Volatile Organic Compounds Analysis by Method 8260B:

Trichloroethene value for Samples 1010J94-021A and - 025A is "E" qualified, indicating an estimated value over linear calibration range. Sample was diluted and re-analyzed with analyte being below reporting limit due to the level of dilution required for other compounds.

Analytical Environmental Services, Inc

Date: 28-Oct-10

Client: ERM-Southeast	Client Sample ID: MW-20-20101014-01
Project: Williamson Dickie	Collection Date: 10/14/2010 2:30:00 PM
Lab ID: 1010J94-001	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,4-Dioxane	BRL	150		ug/L	137147	1	10/26/2010 13:08	JT
Vinyl chloride	BRL	2.0		ug/L	137147	1	10/26/2010 13:08	JT
1,1-Dichloroethene	BRL	5.0		ug/L	137147	1	10/26/2010 13:08	JT
trans-1,2-Dichloroethene	BRL	5.0		ug/L	137147	1	10/26/2010 13:08	JT
cis-1,2-Dichloroethene	400	50		ug/L	137147	10	10/26/2010 21:50	JT
Trichloroethene	9.7	5.0		ug/L	137147	1	10/26/2010 13:08	JT
Tetrachloroethene	74	5.0		ug/L	137147	1	10/26/2010 13:08	JT
Surr: 4-Bromofluorobenzene	80.9	64.7-130		%REC	137147	1	10/26/2010 13:08	JT
Surr: 4-Bromofluorobenzene	80.1	64.7-130		%REC	137147	10	10/26/2010 21:50	JT
Surr: Dibromofluoromethane	104	80.7-129		%REC	137147	1	10/26/2010 13:08	JT
Surr: Dibromofluoromethane	105	80.7-129		%REC	137147	10	10/26/2010 21:50	JT
Surr: Toluene-d8	89.6	71.1-120		%REC	137147	1	10/26/2010 13:08	JT
Surr: Toluene-d8	92	71.1-120		%REC	137147	10	10/26/2010 21:50	JT

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	

Client: ERM-Southeast	Client Sample ID: MW-19-20101014-01
Project: Williamson Dickie	Collection Date: 10/14/2010 3:10:00 PM
Lab ID: 1010J94-002	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,4-Dioxane	BRL	150		ug/L	137147	1	10/26/2010 13:37	JT
Vinyl chloride	BRL	2.0		ug/L	137147	1	10/26/2010 13:37	JT
1,1-Dichloroethene	BRL	5.0		ug/L	137147	1	10/26/2010 13:37	JT
trans-1,2-Dichloroethene	BRL	5.0		ug/L	137147	1	10/26/2010 13:37	JT
cis-1,2-Dichloroethene	BRL	5.0		ug/L	137147	1	10/26/2010 13:37	JT
Trichloroethene	BRL	5.0		ug/L	137147	1	10/26/2010 13:37	JT
Tetrachloroethene	BRL	5.0		ug/L	137147	1	10/26/2010 13:37	JT
Surr: 4-Bromofluorobenzene	84.2	64.7-130		%REC	137147	1	10/26/2010 13:37	JT
Surr: Dibromofluoromethane	106	80.7-129		%REC	137147	1	10/26/2010 13:37	JT
Surr: Toluene-d8	92.3	71.1-120		%REC	137147	1	10/26/2010 13:37	JT

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value

Client: ERM-Southeast	Client Sample ID: MW-25-20101014-01
Project: Williamson Dickie	Collection Date: 10/14/2010 1:10:00 PM
Lab ID: 1010J94-003	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,4-Dioxane	BRL	150		ug/L	137147	1	10/26/2010 14:05	JT
Vinyl chloride	BRL	2.0		ug/L	137147	1	10/26/2010 14:05	JT
1,1-Dichloroethene	BRL	5.0		ug/L	137147	1	10/26/2010 14:05	JT
trans-1,2-Dichloroethene	BRL	5.0		ug/L	137147	1	10/26/2010 14:05	JT
cis-1,2-Dichloroethene	23	5.0		ug/L	137147	1	10/26/2010 14:05	JT
Trichloroethene	6.2	5.0		ug/L	137147	1	10/26/2010 14:05	JT
Tetrachloroethene	110	5.0		ug/L	137147	1	10/26/2010 14:05	JT
Surr: 4-Bromofluorobenzene	78.9	64.7-130		%REC	137147	1	10/26/2010 14:05	JT
Surr: Dibromofluoromethane	108	80.7-129		%REC	137147	1	10/26/2010 14:05	JT
Surr: Toluene-d8	90.9	71.1-120		%REC	137147	1	10/26/2010 14:05	JT

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value

Client: ERM-Southeast	Client Sample ID: MW-29R-20101015-01
Project: Williamson Dickie	Collection Date: 10/15/2010 12:30:00 PM
Lab ID: 1010J94-004	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,4-Dioxane	BRL	150		ug/L	137147	1	10/26/2010 14:34	JT
Vinyl chloride	BRL	2.0		ug/L	137147	1	10/26/2010 14:34	JT
1,1-Dichloroethene	BRL	5.0		ug/L	137147	1	10/26/2010 14:34	JT
trans-1,2-Dichloroethene	BRL	5.0		ug/L	137147	1	10/26/2010 14:34	JT
cis-1,2-Dichloroethene	BRL	5.0		ug/L	137147	1	10/26/2010 14:34	JT
Trichloroethene	BRL	5.0		ug/L	137147	1	10/26/2010 14:34	JT
Tetrachloroethene	BRL	5.0		ug/L	137147	1	10/26/2010 14:34	JT
Surr: 4-Bromofluorobenzene	79.6	64.7-130		%REC	137147	1	10/26/2010 14:34	JT
Surr: Dibromofluoromethane	105	80.7-129		%REC	137147	1	10/26/2010 14:34	JT
Surr: Toluene-d8	91.3	71.1-120		%REC	137147	1	10/26/2010 14:34	JT

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value

Client: ERM-Southeast	Client Sample ID: MW-35-20101015-01
Project: Williamson Dickie	Collection Date: 10/15/2010 2:15:00 PM
Lab ID: 1010J94-005	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,4-Dioxane	BRL	150		ug/L	137147	1	10/26/2010 15:03	JT
Vinyl chloride	BRL	2.0		ug/L	137147	1	10/26/2010 15:03	JT
1,1-Dichloroethene	BRL	5.0		ug/L	137147	1	10/26/2010 15:03	JT
trans-1,2-Dichloroethene	BRL	5.0		ug/L	137147	1	10/26/2010 15:03	JT
cis-1,2-Dichloroethene	BRL	5.0		ug/L	137147	1	10/26/2010 15:03	JT
Trichloroethene	BRL	5.0		ug/L	137147	1	10/26/2010 15:03	JT
Tetrachloroethene	BRL	5.0		ug/L	137147	1	10/26/2010 15:03	JT
Surr: 4-Bromofluorobenzene	81.3	64.7-130		%REC	137147	1	10/26/2010 15:03	JT
Surr: Dibromofluoromethane	107	80.7-129		%REC	137147	1	10/26/2010 15:03	JT
Surr: Toluene-d8	93.7	71.1-120		%REC	137147	1	10/26/2010 15:03	JT

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value

Client: ERM-Southeast	Client Sample ID: MW-35A-20101015-01
Project: Williamson Dickie	Collection Date: 10/15/2010 1:30:00 PM
Lab ID: 1010J94-006	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,4-Dioxane	BRL	150		ug/L	137147	1	10/27/2010 12:51	JT
Vinyl chloride	BRL	2.0		ug/L	137147	1	10/27/2010 12:51	JT
1,1-Dichloroethene	BRL	5.0		ug/L	137147	1	10/27/2010 12:51	JT
trans-1,2-Dichloroethene	BRL	5.0		ug/L	137147	1	10/27/2010 12:51	JT
cis-1,2-Dichloroethene	BRL	5.0		ug/L	137147	1	10/27/2010 12:51	JT
Trichloroethene	BRL	5.0		ug/L	137147	1	10/27/2010 12:51	JT
Tetrachloroethene	BRL	5.0		ug/L	137147	1	10/27/2010 12:51	JT
Surr: 4-Bromofluorobenzene	87.5	64.7-130		%REC	137147	1	10/27/2010 12:51	JT
Surr: Dibromofluoromethane	104	80.7-129		%REC	137147	1	10/27/2010 12:51	JT
Surr: Toluene-d8	87.8	71.1-120		%REC	137147	1	10/27/2010 12:51	JT

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value

Client: ERM-Southeast	Client Sample ID: MW-36-20101015-01
Project: Williamson Dickie	Collection Date: 10/15/2010 11:30:00 AM
Lab ID: 1010J94-007	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,4-Dioxane	BRL	150		ug/L	137147	1	10/27/2010 13:20	JT
Vinyl chloride	BRL	2.0		ug/L	137147	1	10/27/2010 13:20	JT
1,1-Dichloroethene	BRL	5.0		ug/L	137147	1	10/27/2010 13:20	JT
trans-1,2-Dichloroethene	BRL	5.0		ug/L	137147	1	10/27/2010 13:20	JT
cis-1,2-Dichloroethene	BRL	5.0		ug/L	137147	1	10/27/2010 13:20	JT
Trichloroethene	BRL	5.0		ug/L	137147	1	10/27/2010 13:20	JT
Tetrachloroethene	BRL	5.0		ug/L	137147	1	10/27/2010 13:20	JT
Surr: 4-Bromofluorobenzene	84.9	64.7-130		%REC	137147	1	10/27/2010 13:20	JT
Surr: Dibromofluoromethane	107	80.7-129		%REC	137147	1	10/27/2010 13:20	JT
Surr: Toluene-d8	91.6	71.1-120		%REC	137147	1	10/27/2010 13:20	JT

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value

Client: ERM-Southeast	Client Sample ID: MW-37A-20101015-01
Project: Williamson Dickie	Collection Date: 10/15/2010 10:35:00 AM
Lab ID: 1010J94-008	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,4-Dioxane	BRL	150		ug/L	137147	1	10/27/2010 13:48	JT
Vinyl chloride	2.6	2.0		ug/L	137147	1	10/27/2010 13:48	JT
1,1-Dichloroethene	BRL	5.0		ug/L	137147	1	10/27/2010 13:48	JT
trans-1,2-Dichloroethene	BRL	5.0		ug/L	137147	1	10/27/2010 13:48	JT
cis-1,2-Dichloroethene	110	5.0		ug/L	137147	1	10/27/2010 13:48	JT
Trichloroethene	BRL	5.0		ug/L	137147	1	10/27/2010 13:48	JT
Tetrachloroethene	BRL	5.0		ug/L	137147	1	10/27/2010 13:48	JT
Surr: 4-Bromofluorobenzene	87	64.7-130		%REC	137147	1	10/27/2010 13:48	JT
Surr: Dibromofluoromethane	111	80.7-129		%REC	137147	1	10/27/2010 13:48	JT
Surr: Toluene-d8	91.7	71.1-120		%REC	137147	1	10/27/2010 13:48	JT

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value

Client: ERM-Southeast	Client Sample ID: MW-38-20101018-01
Project: Williamson Dickie	Collection Date: 10/18/2010 9:20:00 AM
Lab ID: 1010J94-009	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,4-Dioxane	BRL	150		ug/L	137147	1	10/27/2010 14:17	JT
Vinyl chloride	BRL	2.0		ug/L	137147	1	10/27/2010 14:17	JT
1,1-Dichloroethene	BRL	5.0		ug/L	137147	1	10/27/2010 14:17	JT
trans-1,2-Dichloroethene	BRL	5.0		ug/L	137147	1	10/27/2010 14:17	JT
cis-1,2-Dichloroethene	BRL	5.0		ug/L	137147	1	10/27/2010 14:17	JT
Trichloroethene	BRL	5.0		ug/L	137147	1	10/27/2010 14:17	JT
Tetrachloroethene	25	5.0		ug/L	137147	1	10/27/2010 14:17	JT
Surr: 4-Bromofluorobenzene	82.5	64.7-130		%REC	137147	1	10/27/2010 14:17	JT
Surr: Dibromofluoromethane	110	80.7-129		%REC	137147	1	10/27/2010 14:17	JT
Surr: Toluene-d8	93.9	71.1-120		%REC	137147	1	10/27/2010 14:17	JT

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value

Client: ERM-Southeast	Client Sample ID: MW-38A-20101018-01
Project: Williamson Dickie	Collection Date: 10/18/2010 10:25:00 AM
Lab ID: 1010J94-010	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,4-Dioxane	BRL	150		ug/L	137147	1	10/27/2010 18:38	JT
Vinyl chloride	13	2.0		ug/L	137147	1	10/27/2010 18:38	JT
1,1-Dichloroethene	8.6	5.0		ug/L	137147	1	10/27/2010 18:38	JT
trans-1,2-Dichloroethene	5.5	5.0		ug/L	137147	1	10/27/2010 18:38	JT
cis-1,2-Dichloroethene	3800	500		ug/L	137147	100	10/27/2010 12:22	JT
Trichloroethene	BRL	5.0		ug/L	137147	1	10/27/2010 18:38	JT
Tetrachloroethene	BRL	5.0		ug/L	137147	1	10/27/2010 18:38	JT
Surr: 4-Bromofluorobenzene	82.8	64.7-130		%REC	137147	1	10/27/2010 18:38	JT
Surr: 4-Bromofluorobenzene	83.7	64.7-130		%REC	137147	100	10/27/2010 12:22	JT
Surr: Dibromofluoromethane	108	80.7-129		%REC	137147	100	10/27/2010 12:22	JT
Surr: Dibromofluoromethane	111	80.7-129		%REC	137147	1	10/27/2010 18:38	JT
Surr: Toluene-d8	86.2	71.1-120		%REC	137147	1	10/27/2010 18:38	JT
Surr: Toluene-d8	91.9	71.1-120		%REC	137147	100	10/27/2010 12:22	JT

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	

Client: ERM-Southeast	Client Sample ID: MW-32-20101018-01
Project: Williamson Dickie	Collection Date: 10/18/2010 11:20:00 AM
Lab ID: 1010J94-011	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,4-Dioxane	BRL	150		ug/L	137147	1	10/27/2010 14:45	JT
Vinyl chloride	BRL	2.0		ug/L	137147	1	10/27/2010 14:45	JT
1,1-Dichloroethene	BRL	5.0		ug/L	137147	1	10/27/2010 14:45	JT
trans-1,2-Dichloroethene	BRL	5.0		ug/L	137147	1	10/27/2010 14:45	JT
cis-1,2-Dichloroethene	20	5.0		ug/L	137147	1	10/27/2010 14:45	JT
Trichloroethene	5.6	5.0		ug/L	137147	1	10/27/2010 14:45	JT
Tetrachloroethene	100	5.0		ug/L	137147	1	10/27/2010 14:45	JT
Surr: 4-Bromofluorobenzene	81.7	64.7-130		%REC	137147	1	10/27/2010 14:45	JT
Surr: Dibromofluoromethane	114	80.7-129		%REC	137147	1	10/27/2010 14:45	JT
Surr: Toluene-d8	91.7	71.1-120		%REC	137147	1	10/27/2010 14:45	JT

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value

Client: ERM-Southeast	Client Sample ID: MW-33-20101018-01
Project: Williamson Dickie	Collection Date: 10/18/2010 1:20:00 PM
Lab ID: 1010J94-012	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,4-Dioxane	BRL	150		ug/L	137147	1	10/27/2010 15:14	JT
Vinyl chloride	BRL	2.0		ug/L	137147	1	10/27/2010 15:14	JT
1,1-Dichloroethene	BRL	5.0		ug/L	137147	1	10/27/2010 15:14	JT
trans-1,2-Dichloroethene	BRL	5.0		ug/L	137147	1	10/27/2010 15:14	JT
cis-1,2-Dichloroethene	BRL	5.0		ug/L	137147	1	10/27/2010 15:14	JT
Trichloroethene	BRL	5.0		ug/L	137147	1	10/27/2010 15:14	JT
Tetrachloroethene	BRL	5.0		ug/L	137147	1	10/27/2010 15:14	JT
Surr: 4-Bromofluorobenzene	86.3	64.7-130		%REC	137147	1	10/27/2010 15:14	JT
Surr: Dibromofluoromethane	110	80.7-129		%REC	137147	1	10/27/2010 15:14	JT
Surr: Toluene-d8	90.9	71.1-120		%REC	137147	1	10/27/2010 15:14	JT

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value

Client: ERM-Southeast	Client Sample ID: MW-12-20101018-01
Project: Williamson Dickie	Collection Date: 10/18/2010 2:20:00 PM
Lab ID: 1010J94-013	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,4-Dioxane	BRL	150		ug/L	137147	1	10/27/2010 15:43	JT
Vinyl chloride	BRL	2.0		ug/L	137147	1	10/27/2010 15:43	JT
1,1-Dichloroethene	BRL	5.0		ug/L	137147	1	10/27/2010 15:43	JT
trans-1,2-Dichloroethene	BRL	5.0		ug/L	137147	1	10/27/2010 15:43	JT
cis-1,2-Dichloroethene	23	5.0		ug/L	137147	1	10/27/2010 15:43	JT
Trichloroethene	BRL	5.0		ug/L	137147	1	10/27/2010 15:43	JT
Tetrachloroethene	22	5.0		ug/L	137147	1	10/27/2010 15:43	JT
Surr: 4-Bromofluorobenzene	80.6	64.7-130		%REC	137147	1	10/27/2010 15:43	JT
Surr: Dibromofluoromethane	110	80.7-129		%REC	137147	1	10/27/2010 15:43	JT
Surr: Toluene-d8	93.6	71.1-120		%REC	137147	1	10/27/2010 15:43	JT

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value

Client: ERM-Southeast	Client Sample ID: DUP-1
Project: Williamson Dickie	Collection Date: 10/18/2010 12:00:00 PM
Lab ID: 1010J94-014	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
1,4-Dioxane	BRL	150		ug/L	137147	1	10/27/2010 16:11	JT
Vinyl chloride	BRL	2.0		ug/L	137147	1	10/27/2010 16:11	JT
1,1-Dichloroethene	BRL	5.0		ug/L	137147	1	10/27/2010 16:11	JT
trans-1,2-Dichloroethene	BRL	5.0		ug/L	137147	1	10/27/2010 16:11	JT
cis-1,2-Dichloroethene	BRL	5.0		ug/L	137147	1	10/27/2010 16:11	JT
Trichloroethene	BRL	5.0		ug/L	137147	1	10/27/2010 16:11	JT
Tetrachloroethene	26	5.0		ug/L	137147	1	10/27/2010 16:11	JT
Surr: 4-Bromofluorobenzene	83.2	64.7-130		%REC	137147	1	10/27/2010 16:11	JT
Surr: Dibromofluoromethane	115	80.7-129		%REC	137147	1	10/27/2010 16:11	JT
Surr: Toluene-d8	93.9	71.1-120		%REC	137147	1	10/27/2010 16:11	JT

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value

Client: ERM-Southeast	Client Sample ID: MW-14-20101019-01
Project: Williamson Dickie	Collection Date: 10/19/2010 9:15:00 AM
Lab ID: 1010J94-015	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,4-Dioxane	BRL	150		ug/L	137147	1	10/27/2010 18:10	JT
Vinyl chloride	BRL	2.0		ug/L	137147	1	10/27/2010 18:10	JT
1,1-Dichloroethene	BRL	5.0		ug/L	137147	1	10/27/2010 18:10	JT
trans-1,2-Dichloroethene	BRL	5.0		ug/L	137147	1	10/27/2010 18:10	JT
cis-1,2-Dichloroethene	BRL	5.0		ug/L	137147	1	10/27/2010 18:10	JT
Trichloroethene	BRL	5.0		ug/L	137147	1	10/27/2010 18:10	JT
Tetrachloroethene	9.8	5.0		ug/L	137147	1	10/27/2010 18:10	JT
Surr: 4-Bromofluorobenzene	85	64.7-130		%REC	137147	1	10/27/2010 18:10	JT
Surr: Dibromofluoromethane	112	80.7-129		%REC	137147	1	10/27/2010 18:10	JT
Surr: Toluene-d8	94.5	71.1-120		%REC	137147	1	10/27/2010 18:10	JT

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value

Client: ERM-Southeast	Client Sample ID: MW-13-20101019-01
Project: Williamson Dickie	Collection Date: 10/19/2010 10:05:00 AM
Lab ID: 1010J94-016	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,4-Dioxane	BRL	150		ug/L	137089	1	10/26/2010 13:11	GK
Vinyl chloride	BRL	2.0		ug/L	137089	1	10/26/2010 13:11	GK
1,1-Dichloroethene	BRL	5.0		ug/L	137089	1	10/26/2010 13:11	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	137089	1	10/26/2010 13:11	GK
cis-1,2-Dichloroethene	6.6	5.0		ug/L	137089	1	10/26/2010 13:11	GK
Trichloroethene	10	5.0		ug/L	137089	1	10/26/2010 13:11	GK
Tetrachloroethene	120	5.0		ug/L	137089	1	10/26/2010 13:11	GK
Surr: 4-Bromofluorobenzene	89.5	64.7-130		%REC	137089	1	10/26/2010 13:11	GK
Surr: Dibromofluoromethane	103	80.7-129		%REC	137089	1	10/26/2010 13:11	GK
Surr: Toluene-d8	97.5	71.1-120		%REC	137089	1	10/26/2010 13:11	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value

Client: ERM-Southeast	Client Sample ID: MW-13A-20101019-01
Project: Williamson Dickie	Collection Date: 10/19/2010 10:40:00 AM
Lab ID: 1010J94-017	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,4-Dioxane	BRL	150		ug/L	137089	1	10/26/2010 16:40	GK
Vinyl chloride	BRL	2.0		ug/L	137089	1	10/26/2010 16:40	GK
1,1-Dichloroethene	BRL	5.0		ug/L	137089	1	10/26/2010 16:40	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	137089	1	10/26/2010 16:40	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	137089	1	10/26/2010 16:40	GK
Trichloroethene	BRL	5.0		ug/L	137089	1	10/26/2010 16:40	GK
Tetrachloroethene	18	5.0		ug/L	137089	1	10/26/2010 16:40	GK
Surr: 4-Bromofluorobenzene	90.1	64.7-130		%REC	137089	1	10/26/2010 16:40	GK
Surr: Dibromofluoromethane	100	80.7-129		%REC	137089	1	10/26/2010 16:40	GK
Surr: Toluene-d8	94.1	71.1-120		%REC	137089	1	10/26/2010 16:40	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value

Client: ERM-Southeast	Client Sample ID: MW-34-20101019-01
Project: Williamson Dickie	Collection Date: 10/19/2010 11:40:00 AM
Lab ID: 1010J94-018	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,4-Dioxane	BRL	150		ug/L	137089	1	10/26/2010 17:10	GK
Vinyl chloride	BRL	2.0		ug/L	137089	1	10/26/2010 17:10	GK
1,1-Dichloroethene	BRL	5.0		ug/L	137089	1	10/26/2010 17:10	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	137089	1	10/26/2010 17:10	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	137089	1	10/26/2010 17:10	GK
Trichloroethene	BRL	5.0		ug/L	137089	1	10/26/2010 17:10	GK
Tetrachloroethene	BRL	5.0		ug/L	137089	1	10/26/2010 17:10	GK
Surr: 4-Bromofluorobenzene	93.8	64.7-130		%REC	137089	1	10/26/2010 17:10	GK
Surr: Dibromofluoromethane	101	80.7-129		%REC	137089	1	10/26/2010 17:10	GK
Surr: Toluene-d8	94.9	71.1-120		%REC	137089	1	10/26/2010 17:10	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value

Client: ERM-Southeast	Client Sample ID: MW-18D-20101019-01
Project: Williamson Dickie	Collection Date: 10/19/2010 2:30:00 PM
Lab ID: 1010J94-019	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,4-Dioxane	BRL	150		ug/L	137089	1	10/27/2010 13:39	GK
Vinyl chloride	BRL	2.0		ug/L	137089	1	10/27/2010 13:39	GK
1,1-Dichloroethene	BRL	5.0		ug/L	137089	1	10/27/2010 13:39	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	137089	1	10/27/2010 13:39	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	137089	1	10/27/2010 13:39	GK
Trichloroethene	BRL	5.0		ug/L	137089	1	10/27/2010 13:39	GK
Tetrachloroethene	17	5.0		ug/L	137089	1	10/27/2010 13:39	GK
Surr: 4-Bromofluorobenzene	94.6	64.7-130		%REC	137089	1	10/27/2010 13:39	GK
Surr: Dibromofluoromethane	97.4	80.7-129		%REC	137089	1	10/27/2010 13:39	GK
Surr: Toluene-d8	95	71.1-120		%REC	137089	1	10/27/2010 13:39	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value

Client: ERM-Southeast	Client Sample ID: MW-4-20101020-01
Project: Williamson Dickie	Collection Date: 10/20/2010 9:05:00 AM
Lab ID: 1010J94-020	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,4-Dioxane	BRL	150		ug/L	137089	1	10/27/2010 14:09	GK
Vinyl chloride	BRL	2.0		ug/L	137089	1	10/27/2010 14:09	GK
1,1-Dichloroethene	BRL	5.0		ug/L	137089	1	10/27/2010 14:09	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	137089	1	10/27/2010 14:09	GK
cis-1,2-Dichloroethene	190	5.0		ug/L	137089	1	10/27/2010 14:09	GK
Trichloroethene	49	5.0		ug/L	137089	1	10/27/2010 14:09	GK
Tetrachloroethene	1700	100		ug/L	137089	20	10/27/2010 16:38	GK
Surr: 4-Bromofluorobenzene	91.8	64.7-130		%REC	137089	1	10/27/2010 14:09	GK
Surr: 4-Bromofluorobenzene	87	64.7-130		%REC	137089	20	10/27/2010 16:38	GK
Surr: Dibromofluoromethane	106	80.7-129		%REC	137089	20	10/27/2010 16:38	GK
Surr: Dibromofluoromethane	100	80.7-129		%REC	137089	1	10/27/2010 14:09	GK
Surr: Toluene-d8	94.6	71.1-120		%REC	137089	1	10/27/2010 14:09	GK
Surr: Toluene-d8	99.3	71.1-120		%REC	137089	20	10/27/2010 16:38	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value

Client: ERM-Southeast	Client Sample ID: MW-1-20101020-01
Project: Williamson Dickie	Collection Date: 10/20/2010 10:05:00 AM
Lab ID: 1010J94-021	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,4-Dioxane	BRL	150		ug/L	137089	1	10/27/2010 14:38	GK
Vinyl chloride	11	2.0		ug/L	137089	1	10/27/2010 14:38	GK
1,1-Dichloroethene	BRL	5.0		ug/L	137089	1	10/27/2010 14:38	GK
trans-1,2-Dichloroethene	20	5.0		ug/L	137089	1	10/27/2010 14:38	GK
cis-1,2-Dichloroethene	1300	1000		ug/L	137089	500	10/27/2010 16:08	GK
Trichloroethene	400	5.0	E	ug/L	137089	1	10/27/2010 14:38	GK
Tetrachloroethene	20000	2500		ug/L	137089	500	10/27/2010 16:08	GK
Surr: 4-Bromofluorobenzene	91.5	64.7-130		%REC	137089	500	10/27/2010 16:08	GK
Surr: 4-Bromofluorobenzene	94.6	64.7-130		%REC	137089	1	10/27/2010 14:38	GK
Surr: Dibromofluoromethane	105	80.7-129		%REC	137089	500	10/27/2010 16:08	GK
Surr: Dibromofluoromethane	100	80.7-129		%REC	137089	1	10/27/2010 14:38	GK
Surr: Toluene-d8	96	71.1-120		%REC	137089	500	10/27/2010 16:08	GK
Surr: Toluene-d8	98.5	71.1-120		%REC	137089	1	10/27/2010 14:38	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value

Client: ERM-Southeast	Client Sample ID: MW-2-20101020-01
Project: Williamson Dickie	Collection Date: 10/20/2010 11:05:00 AM
Lab ID: 1010J94-022	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,4-Dioxane	BRL	150		ug/L	137089	1	10/27/2010 17:40	GK
Vinyl chloride	BRL	2.0		ug/L	137089	1	10/27/2010 17:40	GK
1,1-Dichloroethene	BRL	5.0		ug/L	137089	1	10/27/2010 17:40	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	137089	1	10/27/2010 17:40	GK
cis-1,2-Dichloroethene	23	5.0		ug/L	137089	1	10/27/2010 17:40	GK
Trichloroethene	9.2	5.0		ug/L	137089	1	10/27/2010 17:40	GK
Tetrachloroethene	64	5.0		ug/L	137089	1	10/27/2010 17:40	GK
Surr: 4-Bromofluorobenzene	88.9	64.7-130		%REC	137089	1	10/27/2010 17:40	GK
Surr: Dibromofluoromethane	108	80.7-129		%REC	137089	1	10/27/2010 17:40	GK
Surr: Toluene-d8	96	71.1-120		%REC	137089	1	10/27/2010 17:40	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value

Client: ERM-Southeast	Client Sample ID: MW-10-20101020-01
Project: Williamson Dickie	Collection Date: 10/20/2010 2:05:00 PM
Lab ID: 1010J94-023	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,4-Dioxane	BRL	150		ug/L	137089	1	10/27/2010 15:38	GK
Vinyl chloride	BRL	2.0		ug/L	137089	1	10/27/2010 15:38	GK
1,1-Dichloroethene	BRL	5.0		ug/L	137089	1	10/27/2010 15:38	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	137089	1	10/27/2010 15:38	GK
cis-1,2-Dichloroethene	14	5.0		ug/L	137089	1	10/27/2010 15:38	GK
Trichloroethene	11	5.0		ug/L	137089	1	10/27/2010 15:38	GK
Tetrachloroethene	210	50		ug/L	137089	10	10/28/2010 09:45	GK
Surr: 4-Bromofluorobenzene	90.6	64.7-130		%REC	137089	1	10/27/2010 15:38	GK
Surr: 4-Bromofluorobenzene	94	64.7-130		%REC	137089	10	10/28/2010 09:45	GK
Surr: Dibromofluoromethane	101	80.7-129		%REC	137089	10	10/28/2010 09:45	GK
Surr: Dibromofluoromethane	103	80.7-129		%REC	137089	1	10/27/2010 15:38	GK
Surr: Toluene-d8	96.8	71.1-120		%REC	137089	1	10/27/2010 15:38	GK
Surr: Toluene-d8	96.7	71.1-120		%REC	137089	10	10/28/2010 09:45	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value

Client: ERM-Southeast	Client Sample ID: MW-10A-20101020-01
Project: Williamson Dickie	Collection Date: 10/20/2010 1:05:00 PM
Lab ID: 1010J94-024	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,4-Dioxane	BRL	150		ug/L	137089	1	10/28/2010 10:15	GK
Vinyl chloride	BRL	2.0		ug/L	137089	1	10/28/2010 10:15	GK
1,1-Dichloroethene	BRL	5.0		ug/L	137089	1	10/28/2010 10:15	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	137089	1	10/28/2010 10:15	GK
cis-1,2-Dichloroethene	270	100		ug/L	137089	20	10/28/2010 10:46	GK
Trichloroethene	98	5.0		ug/L	137089	1	10/28/2010 10:15	GK
Tetrachloroethene	1100	100		ug/L	137089	20	10/28/2010 10:46	GK
Surr: 4-Bromofluorobenzene	87.9	64.7-130		%REC	137089	1	10/28/2010 10:15	GK
Surr: 4-Bromofluorobenzene	91	64.7-130		%REC	137089	20	10/28/2010 10:46	GK
Surr: Dibromofluoromethane	104	80.7-129		%REC	137089	20	10/28/2010 10:46	GK
Surr: Dibromofluoromethane	101	80.7-129		%REC	137089	1	10/28/2010 10:15	GK
Surr: Toluene-d8	98.1	71.1-120		%REC	137089	1	10/28/2010 10:15	GK
Surr: Toluene-d8	96	71.1-120		%REC	137089	20	10/28/2010 10:46	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value

Client: ERM-Southeast	Client Sample ID: DUP-2
Project: Williamson Dickie	Collection Date: 10/20/2010 12:00:00 PM
Lab ID: 1010J94-025	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,4-Dioxane	BRL	150		ug/L	137089	1	10/28/2010 11:16	GK
Vinyl chloride	12	2.0		ug/L	137089	1	10/28/2010 11:16	GK
1,1-Dichloroethene	BRL	5.0		ug/L	137089	1	10/28/2010 11:16	GK
trans-1,2-Dichloroethene	19	5.0		ug/L	137089	1	10/28/2010 11:16	GK
cis-1,2-Dichloroethene	1100	1000		ug/L	137089	500	10/28/2010 13:46	GK
Trichloroethene	410	5.0	E	ug/L	137089	1	10/28/2010 11:16	GK
Tetrachloroethene	19000	2500		ug/L	137089	500	10/28/2010 13:46	GK
Surr: 4-Bromofluorobenzene	88.5	64.7-130		%REC	137089	500	10/28/2010 13:46	GK
Surr: 4-Bromofluorobenzene	91.9	64.7-130		%REC	137089	1	10/28/2010 11:16	GK
Surr: Dibromofluoromethane	101	80.7-129		%REC	137089	500	10/28/2010 13:46	GK
Surr: Dibromofluoromethane	102	80.7-129		%REC	137089	1	10/28/2010 11:16	GK
Surr: Toluene-d8	95.1	71.1-120		%REC	137089	500	10/28/2010 13:46	GK
Surr: Toluene-d8	97.7	71.1-120		%REC	137089	1	10/28/2010 11:16	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value

Client: ERM-Southeast	Client Sample ID: MW-9-20101021-01
Project: Williamson Dickie	Collection Date: 10/21/2010 11:55:00 AM
Lab ID: 1010J94-026	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,4-Dioxane	BRL	150		ug/L	137089	1	10/28/2010 14:16	GK
Vinyl chloride	BRL	2.0		ug/L	137089	1	10/28/2010 14:16	GK
1,1-Dichloroethene	BRL	5.0		ug/L	137089	1	10/28/2010 14:16	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	137089	1	10/28/2010 14:16	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	137089	1	10/28/2010 14:16	GK
Trichloroethene	BRL	5.0		ug/L	137089	1	10/28/2010 14:16	GK
Tetrachloroethene	20	5.0		ug/L	137089	1	10/28/2010 14:16	GK
Surr: 4-Bromofluorobenzene	89.6	64.7-130		%REC	137089	1	10/28/2010 14:16	GK
Surr: Dibromofluoromethane	102	80.7-129		%REC	137089	1	10/28/2010 14:16	GK
Surr: Toluene-d8	95.9	71.1-120		%REC	137089	1	10/28/2010 14:16	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value

Client: ERM-Southeast	Client Sample ID: MW-37-20101021-01
Project: Williamson Dickie	Collection Date: 10/21/2010 12:55:00 PM
Lab ID: 1010J94-027	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,4-Dioxane	BRL	150		ug/L	137089	1	10/27/2010 18:10	GK
Vinyl chloride	BRL	2.0		ug/L	137089	1	10/27/2010 18:10	GK
1,1-Dichloroethene	BRL	5.0		ug/L	137089	1	10/27/2010 18:10	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	137089	1	10/27/2010 18:10	GK
cis-1,2-Dichloroethene	7.8	5.0		ug/L	137089	1	10/27/2010 18:10	GK
Trichloroethene	BRL	5.0		ug/L	137089	1	10/27/2010 18:10	GK
Tetrachloroethene	22	5.0		ug/L	137089	1	10/27/2010 18:10	GK
Surr: 4-Bromofluorobenzene	90.7	64.7-130		%REC	137089	1	10/27/2010 18:10	GK
Surr: Dibromofluoromethane	105	80.7-129		%REC	137089	1	10/27/2010 18:10	GK
Surr: Toluene-d8	97.9	71.1-120		%REC	137089	1	10/27/2010 18:10	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value

Client: ERM-Southeast	Client Sample ID: MW-28-20101021-01
Project: Williamson Dickie	Collection Date: 10/21/2010 1:55:00 PM
Lab ID: 1010J94-028	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,4-Dioxane	BRL	150		ug/L	137089	1	10/27/2010 18:40	GK
Vinyl chloride	3.1	2.0		ug/L	137089	1	10/27/2010 18:40	GK
1,1-Dichloroethene	BRL	5.0		ug/L	137089	1	10/27/2010 18:40	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	137089	1	10/27/2010 18:40	GK
cis-1,2-Dichloroethene	16	5.0		ug/L	137089	1	10/27/2010 18:40	GK
Trichloroethene	BRL	5.0		ug/L	137089	1	10/27/2010 18:40	GK
Tetrachloroethene	BRL	5.0		ug/L	137089	1	10/27/2010 18:40	GK
Surr: 4-Bromofluorobenzene	102	64.7-130		%REC	137089	1	10/27/2010 18:40	GK
Surr: Dibromofluoromethane	101	80.7-129		%REC	137089	1	10/27/2010 18:40	GK
Surr: Toluene-d8	96.1	71.1-120		%REC	137089	1	10/27/2010 18:40	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value

Client: ERM-Southeast	Client Sample ID: TRIP BLANK
Project: Williamson Dickie	Collection Date: 10/22/2010
Lab ID: 1010J94-029	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,4-Dioxane	BRL	150		ug/L	137089	1	10/26/2010 12:41	GK
Vinyl chloride	BRL	2.0		ug/L	137089	1	10/26/2010 12:41	GK
1,1-Dichloroethene	BRL	5.0		ug/L	137089	1	10/26/2010 12:41	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	137089	1	10/26/2010 12:41	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	137089	1	10/26/2010 12:41	GK
Trichloroethene	BRL	5.0		ug/L	137089	1	10/26/2010 12:41	GK
Tetrachloroethene	BRL	5.0		ug/L	137089	1	10/26/2010 12:41	GK
Surr: 4-Bromofluorobenzene	89.1	64.7-130		%REC	137089	1	10/26/2010 12:41	GK
Surr: Dibromofluoromethane	105	80.7-129		%REC	137089	1	10/26/2010 12:41	GK
Surr: Toluene-d8	94.8	71.1-120		%REC	137089	1	10/26/2010 12:41	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client ERM

Work Order Number 1010594

Checklist completed by M.J. 10/23/10
Signature Date

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Container/Temp Blank temperature in compliance? (4°C±2)* Yes No

Cooler #1 3.4C Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler #5 _____ Cooler #6 _____

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? 10/23/10 M.D. Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Was TAT marked on the COC? Yes No

Proceed with Standard TAT as per project history? Yes No Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted Yes No

Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by _____

Sample Condition: Good Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: ERM-Southeast
Project Name: Williamson Dickie
Workorder: 1010J94

ANALYTICAL QC SUMMARY REPORT

BatchID: 137089

Sample ID: MB-137089	Client ID:	Units: ug/L	Prep Date: 10/26/2010	Run No: 183117							
SampleType: MBLK	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 137089	Analysis Date: 10/26/2010	Seq No: 3812815							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	0
1,4-Dioxane	BRL	150	0	0	0	0	0	0	0	0	0
cis-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	0
Tetrachloroethene	BRL	5.0	0	0	0	0	0	0	0	0	0
trans-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	0
Trichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	0
Vinyl chloride	BRL	2.0	0	0	0	0	0	0	0	0	0
Surr: 4-Bromofluorobenzene	44.59	0	50	0	89.2	64.7	130	0	0	0	0
Surr: Dibromofluoromethane	52.90	0	50	0	106	80.7	129	0	0	0	0
Surr: Toluene-d8	47.80	0	50	0	95.6	71.1	120	0	0	0	0

Sample ID: LCS-137089	Client ID:	Units: ug/L	Prep Date: 10/26/2010	Run No: 183117							
SampleType: LCS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 137089	Analysis Date: 10/26/2010	Seq No: 3812813							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	59.01	5.0	50	0	118	51	154	0	0	0	0
Trichloroethene	57.07	5.0	50	0	114	73.9	132	0	0	0	0
Surr: 4-Bromofluorobenzene	44.23	0	50	0	88.5	64.7	130	0	0	0	0
Surr: Dibromofluoromethane	51.72	0	50	0	103	80.7	129	0	0	0	0
Surr: Toluene-d8	48.03	0	50	0	96.1	71.1	120	0	0	0	0

Sample ID: 1010J94-016AMS	Client ID: MW-13-20101019-01	Units: ug/L	Prep Date: 10/26/2010	Run No: 183117							
SampleType: MS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 137089	Analysis Date: 10/26/2010	Seq No: 3814302							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	52.45	5.0	50	0	105	46.2	183	0	0	0	0
Trichloroethene	64.30	5.0	50	10.20	108	70.5	149	0	0	0	0
Surr: 4-Bromofluorobenzene	47.32	0	50	0	94.6	64.7	130	0	0	0	0

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: ERM-Southeast
Project Name: Williamson Dickie
Workorder: 1010J94

ANALYTICAL QC SUMMARY REPORT

BatchID: 137089

Sample ID: 1010J94-016AMS	Client ID: MW-13-20101019-01	Units: ug/L	Prep Date: 10/26/2010	Run No: 183117							
SampleType: MS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 137089	Analysis Date: 10/26/2010	Seq No: 3814302							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Surr: Dibromofluoromethane	48.89	0	50	0	97.8	80.7	129	0	0	0	
Surr: Toluene-d8	46.65	0	50	0	93.3	71.1	120	0	0	0	

Sample ID: 1010J94-016AMSD	Client ID: MW-13-20101019-01	Units: ug/L	Prep Date: 10/26/2010	Run No: 183117							
SampleType: MSD	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 137089	Analysis Date: 10/26/2010	Seq No: 3814303							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	52.33	5.0	50	0	105	46.2	183	52.45	0.229	20	
Trichloroethene	64.12	5.0	50	10.20	108	70.5	149	64.30	0.28	20	
Surr: 4-Bromofluorobenzene	47.02	0	50	0	94	64.7	130	47.32	0	0	
Surr: Dibromofluoromethane	49.52	0	50	0	99	80.7	129	48.89	0	0	
Surr: Toluene-d8	47.55	0	50	0	95.1	71.1	120	46.65	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: ERM-Southeast
Project Name: Williamson Dickie
Workorder: 1010J94

ANALYTICAL QC SUMMARY REPORT

BatchID: 137147

Sample ID: MB-137147	Client ID:	Units: ug/L	Prep Date: 10/26/2010	Run No: 183215							
SampleType: MBLK	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 137147	Analysis Date: 10/26/2010	Seq No: 3814681							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
1,4-Dioxane	BRL	150	0	0	0	0	0	0	0	0	
cis-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Tetrachloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Vinyl chloride	BRL	2.0	0	0	0	0	0	0	0	0	
Surr: 4-Bromofluorobenzene	42.08	0	50	0	84.2	64.7	130	0	0	0	
Surr: Dibromofluoromethane	50.31	0	50	0	101	80.7	129	0	0	0	
Surr: Toluene-d8	45.34	0	50	0	90.7	71.1	120	0	0	0	

Sample ID: LCS-137147	Client ID:	Units: ug/L	Prep Date: 10/26/2010	Run No: 183215							
SampleType: LCS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 137147	Analysis Date: 10/26/2010	Seq No: 3814679							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	60.60	5.0	50	0	121	51	154	0	0	0	
Trichloroethene	61.83	5.0	50	0	124	73.9	132	0	0	0	
Surr: 4-Bromofluorobenzene	43.13	0	50	0	86.3	64.7	130	0	0	0	
Surr: Dibromofluoromethane	49.11	0	50	0	98.2	80.7	129	0	0	0	
Surr: Toluene-d8	44.41	0	50	0	88.8	71.1	120	0	0	0	

Sample ID: 1010J94-002AMS	Client ID: MW-19-20101014-01	Units: ug/L	Prep Date: 10/26/2010	Run No: 183215							
SampleType: MS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 137147	Analysis Date: 10/26/2010	Seq No: 3814697							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	68.41	5.0	50	0	137	46.2	183	0	0	0	
Trichloroethene	63.40	5.0	50	0	127	70.5	149	0	0	0	
Surr: 4-Bromofluorobenzene	41.81	0	50	0	83.6	64.7	130	0	0	0	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: ERM-Southeast
Project Name: Williamson Dickie
Workorder: 1010J94

ANALYTICAL QC SUMMARY REPORT

BatchID: 137147

Sample ID: 1010J94-002AMS	Client ID: MW-19-20101014-01	Units: ug/L	Prep Date: 10/26/2010	Run No: 183215							
SampleType: MS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 137147	Analysis Date: 10/26/2010	Seq No: 3814697							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Surr: Dibromofluoromethane	50.54	0	50	0	101	80.7	129	0	0	0	
Surr: Toluene-d8	44.46	0	50	0	88.9	71.1	120	0	0	0	

Sample ID: 1010J94-002AMSD	Client ID: MW-19-20101014-01	Units: ug/L	Prep Date: 10/26/2010	Run No: 183215							
SampleType: MSD	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 137147	Analysis Date: 10/26/2010	Seq No: 3814700							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	69.77	5.0	50	0	140	46.2	183	68.41	1.97	20	
Trichloroethene	59.25	5.0	50	0	118	70.5	149	63.40	6.77	20	
Surr: 4-Bromofluorobenzene	41.60	0	50	0	83.2	64.7	130	41.81	0	0	
Surr: Dibromofluoromethane	49.60	0	50	0	99.2	80.7	129	50.54	0	0	
Surr: Toluene-d8	43.18	0	50	0	86.4	71.1	120	44.46	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**PLAN TO MAINTAIN COMPLIANCE
DICKIES INDUSTRIAL SERVICES SITE (former) – HSI #10127**

The Dickies Industrial Services, Incorporated (“DISI”) property has been fully delineated and corrective action has been completed for Tax Parcel No. 130036LL1463 and Tax Parcel No. 130036LL1356 (“DISI property”) in accordance with the Type 3/4 Risk Reduction Standards as documented in the Voluntary Compliance Status Report. To assure continued compliance with the Type 3/4 Risk Reduction Standards for soil, the owner of the DISI property shall implement this Plan To Maintain Compliance (“Plan”).

1.0 MONITORING TO ASSURE COMPLIANCE WITH TYPE 3/4 RISK REDUCTION STANDARDS. The owner of the DISI property shall institute and conduct the following monitoring program to assure continued compliance with Type 3/4 Risk Reduction Standards for soil:

- A.** Review of Contracts and other written Agreements. The owner of the DISI property shall review each contract and lease agreement that it enters into concerning the DISI property, and each informal agreement regarding the use of the site, to ensure that such contracts and agreements will not result in the use of the DISI property for any purpose that is inconsistent with the non-residential status on which the Type 3/4 Risk Reduction Standards for soil are based.
- B.** On-Site Monitoring. The owner of the DISI property shall monitor the DISI property to ensure that its actual use by tenants or other authorized occupants is consistent with Type 3/4 Risk Reduction Standards for soil. To fulfill this requirement, an on-site inspection of the DISI property shall be conducted at least annually.

2.0 ANNUAL WRITTEN REPORT AND CERTIFICATION TO EPD. On or before July 1 of each year, the owner of the DISI property shall submit an annual written report, in the form provided in Exhibit 1, to the Hazardous Sites Response Program to certify its continued compliance with this Plan. In each report, the owner of the DISI property shall certify that it has not entered into any contract or other written agreement that grants a use of the site that is inconsistent with the non-residential status on which the Type 3/4 Risk Reduction Standards for soil are based. It shall further certify that, based on the on-site inspection, the actual use of the site is consistent with its non-residential status. The report shall include the following certification.

“I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluate that 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 and 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.”

- 3.0 NOTICE TO GEORGIA EPD PRIOR TO TRANSFER OF PROPERTY.** In the event that an owner of the DISI property conveys the whole or any part of its ownership interest in the DISI property or in the event that title to the real property at the DISI property is conveyed, in whole or in part, to any other person by operation of law, the owner of the DISI property shall, not fewer than thirty (30) days after the transfer, notify Georgia EPD in writing of the name and address of the transferee or successor in title, and of the nature and date of the transfer or conveyance.
- 4.0 DURATION OF PLAN.** This Plan shall remain in full force and effect until such time as the Director determines that the DISI property meets the Type 1/2 Risk Reduction Standards for soil, and therefore no further action is required.

EXHIBIT 1

ANNUAL WRITTEN REPORT AND CERTIFICATION OF COMPLIANCE
WITH TYPE 3/4 RISK REDUCTION STANDARDS FOR SOIL

Ms. Alexandra Cleary
Hazardous Site Response Program
Georgia Environmental Protection Division
205 Butler Street, S.E., Suite 1162
Atlanta, GA 30334

Re: Dickies Industrial Services, Inc. (“DISI”) Annual Monitoring Report
Tax Parcel No. 130036LL1463 and Tax Parcel No. 130036LL1356

Dear Ms. Cleary:

[Owner’s name] hereby certifies that it has complied with the terms of the Plan To Maintain Compliance for the above-referenced tax parcels (the “DISI property”). This annual report is submitted to fulfill the requirements of the Plan To Maintain Compliance, a copy of which is attached for your reference.

In compliance with the Plan To Maintain Compliance, [owner’s name] has carefully reviewed each contract and lease agreement, and other written agreement, that it has entered into regarding the DISI property. [Owner’s name] hereby certifies that no such agreement will result in a use of the DISI property that is inconsistent with the non-residential status on which the Type 3/4 Risk Reduction Standards for soil are based.

In compliance with the Plan To Maintain Compliance, [owner’s name] conducted an on-site inspection of the DISI property on _____, 20____. This inspection was conducted by _____. This inspection was conducted to verify that the actual use of the site by tenants and other occupants is and has been consistent with its non-residential status. The inspection revealed no evidence of any inconsistent use.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate that 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 and accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

By: _____

Title: _____

Date: _____