

## REVISED FINAL COMPLIANCE STATUS REPORT

Voluntary Remediation Program Legion Industries 370 Mills Road Waynesboro, Burke County, Georgia HSI Site No. 10614



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October 15, 2018

Mr. David Hayes **Environmental Protection Division** Hazardous site Response Program Suite 1462 East Tower 205 Butler Street, S.E. Atlanta, Georgia 30334

**Revised Final Compliance Status Report** Subject:

Voluntary Remediation Program

**Legion Industries** 370 Mills Road

Waynesboro, Burke County, Georgia

HSI Site No. 10614

Dear Mr. Hayes:

Wood Environment & Infrastructure Solutions, Inc. (Wood – formerly Amec Foster Wheeler) is pleased to submit this Revised Compliance Status Report (CSR) for the Legion Industries property on behalf of 370 Mills Road, Inc., current owner of the subject site located on Mills Road in Waynesboro, Georgia (site). This CSR documents the delineation of soil conditions to the appropriate risk reduction standards and summarizes the current status of groundwater conditions and vapor risk at the subject site.

This Revised CSR is submitted in response to comments received from the Georgia Environmental Protection Division dated April 12, 2018. Please contact us if further information or clarification is necessary.

Sincerely,

Wood Environment & Infrastructure Solutions, Inc.

Stephen R. Foley, P.G.

Senior Geologist

Senior Principal Enginee

Mr. Charles A. Brown, 370 Mills Road, Inc. CC:

#### **CERTIFICATION STATEMENT**

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 site is in compliance with Type 3 or 4 risk reduction criteria for all constituents in soil and with Type 4 with controls risk reduction criteria for all constituents in groundwater.

Mr. Charles A. Brown 370 Mills Road, Inc.\*

Date

\*The Legion Industries, Inc. business was purchased on July 25, 2016. The building and land was retained by Mr. Brown under the name of 370 Mills Road, Inc.

#### **GROUNDWATER SCIENTIST STATEMENT**

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

No. 0010

Mr. Stephen R. Foley, P.G.

Georgia Registration No. 1057

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#### 1.0 BACKGROUND

The Legion Industries property ("subject site" or "property") consists of an 11.31-acre tract of land located at 370 Mills Road (aka Waynesboro Bypass) in Waynesboro, Burke County, Georgia (see Figures 1 and 2). The property is developed with an approximately 75,000 square-foot manufacturing facility, a small one-story outbuilding and unpaved parking areas on the north and west sides of the building. Other areas of the property are largely grassed. A tree line is present along much of the eastern property boundary. A shallow ditch traverses eastward from the southeast corner of the main building and then northward along the eastern property boundary to a culvert that directs drainage under Mills Road to the north.

The subject site is located within an area characterized by a combination of undeveloped land and light industrial development. The property is bound to the east by an approximately 25-foot wide, grassed easement, which was deeded to the Burke County Development Authority by Legion Industries in 1997. The property located east of the easement contains a large building previously occupied by Sunbeam Outdoor Products and currently used as a warehouse by Synergy Group, LLC. The property is bound to the south by a rail line; McKinney Wholesale Products is located south of the rail line. The subject site is bound to the west by Davis Road. Across Davis Road opposite the southern portion of the site is Helena Chemical Company, a manufacturer of dry fertilizers. A large undeveloped parcel of land owned by the Burke County Development Authority is located across Davis Road opposite the northern portion of the site. The subject site is bound to the north by Mills Road (a.k.a. Waynesboro Bypass), beyond which is undeveloped wooded property to the north and northeast and industrial property to the northwest.

The subject site was first developed in the late 1950s and was originally occupied by Atlas Chemical Company (Atlas), a manufacturer of agricultural pesticides. The facility was acquired by Legion Utensil Company (LUC) in 1971 and utilized for the manufacture of commercial grade kitchen appliances. LUC made several modifications to the site, including extending the building southward for a distance of approximately 25 feet and constructing a degreaser pit. Legion Industries, Inc., the current property owner, acquired the property in 1988 and has continued to manufacture commercial grade kitchen appliances on the premises.

#### 1.1 PREVIOUS ASSESSMENTS

Previous environmental assessments were performed at the subject site between 1993 and 2015.

## 1.1.1 Pre-HSRA Listing

In December 1993, Dames & Moore performed a Phase I Environmental Survey of the subject site for First Eastern Bank, N.A. According to the report, several above-ground storage tanks (ASTs) and suspected portable trailer-mounted tanks were reportedly present in the area south of the main building on the property during Atlas' occupancy. The report identified a former drum storage area reportedly utilized by LUC south of the main building in the 1970s and 1980s. According to Mr. Scavullo, owner of LUC, the drums in this area only stored machine parts and never hazardous materials. When the property was purchased by Legion Industries in 1988 the drums were removed.

In May 1994, CSRA Testing and Engineering Co., Inc. (CSRA) performed a Phase II Environmental Site Assessment for Legion Industries. CSRA reported impacts to soil and groundwater from volatile organic compounds (VOCs) and metals. The data collected by CSRA is not included in this Final CSR due to the age of the data (greater than 20 years), uncertainty regarding VOC findings and questionable sampling procedures (collecting metals samples in groundwater from open boreholes). Amec Foster Wheeler's subsequent assessments have included sampling and testing of soil and groundwater in the former drum storage area and in each of the areas previously investigated by CSRA.

The groundwater concentrations detected by CSRA were submitted in a Release Notification to the Georgia Environmental Protection Division (EPD) pursuant to the Hazardous Site Response Act (HSRA). The site was subsequently listed on the Hazardous Site Inventory (HSI) as site No. 10614. The listing identified the subject site as a 10.54-acre property; however, a survey dated March 11, 2002 shows the site as 11.31 acres (refer to Appendix I).

#### 1.1.2 **Post-HSRA Listing**

Subsequent to the site's listing on the HSI, Legion Industries contracted Law Engineering and Environmental Services, Inc. (LAW, predecessor to Amec Foster Wheeler) to collect groundwater samples to check the findings of the CSRA assessment. In October 2000, three groundwater monitoring wells (MW-1 through MW-3) were installed to collect groundwater samples and to assess general groundwater flow direction.

On March 21, 2001, EPD issued a letter directing Legion Industries to submit a Compliance Status Report (CSR). EPD's request for a CSR prompted a series of additional assessments in 2001/2002 and again in 2009/2010 which are documented herein and which resulted in the preparation of a 2002 CSR and a 2010 Revised CSR. The 2001/2002 assessments consisted of the resampling of existing monitoring wells, a ground-penetrating radar survey in an area of suspected drum burial, hand auger borings to sample soils, the advancement of a series of soil borings to sample soil and groundwater and the installation of eight additional wells.

The 2001/2002 data obtained by Amec Foster Wheeler was consolidated and presented in a CSR which was submitted to EPD on March 29, 2002. EPD subsequently reviewed the CSR and on June 19, 2009 issued a Notice of Deficiency (NOD) letter to Legion Industries which requested that a revised CSR be submitted. EPD subsequently visited the site and on November 3, 2009 issued a follow-up letter with additional comments.

Based on the comments received, additional assessment of the site was conducted in 2009/2010 which included sampling groundwater from all existing wells on site and two new wells and the installation of three piezometers, sampling soil at 16 of the previous soil boring locations and ten new soil locations and sampling of surface water. These activities were described in a revised CSR, dated March 31, 2010.

EPD issued a letter dated October 27, 2011 commenting on the Revised CSR and requesting submittal of a Corrective Action Plan (CAP). The letter also mentioned the option to submit a Voluntary Remediation Program (VRP) application.

## 1.1.3 **VRP Implementation**

Amec Foster Wheeler prepared a VRP application for the Legion Industries site which was approved by EPD in a letter dated July 25, 2012. Under the VRP, the following activities have been conducted at the site:

- 1. Soil delineation sampling conducted in December 2012;
- 2. Remediation of solvent and pesticide-impacted soils within the degreaser pit and immediately south of the building in June 2013;
- 3. Semi-annual sampling and testing in six events between December 2012 and June 2015;
- 4. Installation and sampling of seven additional on-site wells to further delineate the plume and to aid in groundwater modeling efforts;
- 5. Fate and transport model calculations to predict future plume migration and the potential for impact to downgradient receptors;
- 6. Completion of a water usage survey to identify potential groundwater/surface water receptors in the site vicinity;
- 7. Soil vapor testing and vapor intrusion modeling to assess the potential for adverse impacts to site workers related to exposure to volatiles;
- 8. Preparation of six Semi-Annual Progress Reports (SAPRs) documenting activities completed during each period; and
- 9. Preparation of a CSR following the June 2015 sampling event.
- 10. Preparation of this Revised CSR following receipt of EPD comments regarding the semiannual reports and the January 2016 CSR.

#### 2.0 PURPOSE

This Final CSR has been prepared on behalf of Legion Industries, Inc. for the site located in Waynesboro, Burke County, Georgia. A Voluntary Investigation and Remediation Plan (VIRP) and VRP Application were submitted for this site on January 26, 2012 and EPD accepted the site into the VRP by letter dated July 25, 2012. Since that time, the VIRP was implemented and the work was summarized in six semi-annual progress reports submitted to EPD from January 2013 through July 2015 and a VRP CSR submitted in January 2016. Legion Industries is submitting this Revised CSR which addresses EPD's comments regarding the 2016 CSR and which documents compliance with the provisions, purposes, standards, and policies of the VRP and certifying compliance with applicable cleanup standards.

#### 3.0 CONCEPTUAL SITE MODEL

Groundwater assessment activities on site have been conducted by Amec Foster Wheeler and others between 2001 and 2015. A total of 20 groundwater monitoring wells and six piezometers have been installed on site. Most of the piezometers have been destroyed. Refer to Figure 3 for a plan of the existing monitoring well locations.

## 3.1 CHARACTERIZATION OF SUBSURFACE GEOLOGY

The geology and hydrogeology of the site discussed below are based on the data obtained and review of published literature.

The property is located in the Coastal Plain Physiographic Province which consists of interlayered sequences of sand, clay and limestone formed from marine deposits of Mesozoic and Cenozoic age. The subject site is mapped as being underlain by the Altamaha Grit, Citronelle Formation and Hawthorne Formation. The Hawthorne Formation, which is composed of interlayered sands and sandy clay, is the dominant formation in the area. The native soils present in this geologic area were originally deposited as marine sediments during ancient fluctuations of the seal level. The soils are mapped as Dothan loamy sand, described as a well drained soil with moderate to low permeability in the lower part of the subsoil.

The soil test borings generally encountered a thin layer of fill soil at the surface overlying native soils. Fill depths ranged up to approximately four feet (see Boring Logs in Appendix E for soil descriptions). Soils on site generally consisted of clayey sands and sandy clays with limited zones of clay, particularly at depth in the deep wells, MW-4 and MW-12. See Figures 4 and 5 in Appendix B for cross-sections through the subject site.

## 3.2 CHARACTERIZATION OF HYDROGEOLOGY

In the Coastal Plain Physiographic Province, groundwater can occur under water table (unconfined) or confined conditions and multiple hydrologic units may be present over relatively limited depth ranges. Most of Burke County is underlain by an artesian aquifer which provides water for domestic, industrial and agricultural uses. Most supply wells in the area are at least 200 feet deep. Recharge to the shallow water table is primarily by precipitation infiltrating the upper soils and percolating downward, under the influence of gravity, to the water table.

Typically, the water table of unconfined aquifer is not a level surface, but a subdued reflection of the land surface while that of deeper unconfined or confined units may vary. Also, depth to the water table is variable, being dependent on many factors which include: the amount of rainfall, the permeability of the aquifer material and the amount of groundwater being pumped from the area. Depth to the water table in deeper units will be dependent upon the hydraulic head within that aquifer unit, particularly in the case of confined aquifers.

#### 3.2.1 Surface Water Drainage

Surface water drainage in the surrounding area is controlled by drainage ditches along the streets and a drainage ditch located along the eastern property boundary within a narrow strip of land owned by the Burke County Development Authority. In general, the surface drainage of the site is to the north following the path of a north-trending drainage swale that formerly crossed the

site. The nearest perennial stream is an unnamed tributary of Brier Creek, located approximately 2.5 miles north of Mills Road.

The site's upgradient watershed is interpreted to extend approximately 600 feet to the south, approximately 1,500 feet to the east and approximately 1,000 feet to the west.

### 3.2.2 Aquifer

Based on our observations of soils obtained from the logged boreholes, subsurface materials beneath the site can be characterized as predominantly clayey fine to medium grained sand interlayered with occasional lenses of sand, sandy clay, or clay at various depths.

Based on the measured groundwater elevations, the interpreted groundwater flow direction within the shallow zone of the aquifer across the subject site is in a generally northerly direction (see Figure 6).

During previous assessments, monitoring well MW-2 was screened at a greater depth and exhibited a noticeably lower water table elevation than other shallow wells in the area. In its November 2009 NOD letter, EPD requested additional investigation into the possibility of a separate intermediate depth aquifer. In order to further assess this possibility, Amec Foster Wheeler installed three additional piezometers (PZ-4 through PZ-6). PZ-4 and PZ-5 were located in the areas north and south of MW-2, respectively while PZ-6 was located immediately west of the building. The borings were advanced to depths similar to that of MW-2 and the piezometers were screened over similar intervals. Soils encountered in the piezometer borings were typical of those present throughout the site, consisting of fine to medium grained sandy clays and clayey sands. During the 4th VRP semi-annual period ending July 2014, three additional intermediate depth wells (MW-14, MW-17 and MW-18) were installed.

The elevations of the piezometers and wells installed in the 2001 assessments were surveyed by a Georgia registered land surveyor. Elevations of wells installed during subsequent investigations were surveyed by Wood personnel. Water levels in each well were measured during each sampling event. Measured groundwater elevations from the most recent event (June 2015) indicate a northeasterly groundwater flow direction in the intermediate depth zone (see Figure 7); whereas the flow direction of the upper zone in the area is in a northerly or northwesterly direction. These results indicate a separate flow regime may be present. As illustrated on cross-sections presented in Figures 4 and 5, shallow and intermediate depth wells in the area south of the building (MW-18 and PZ-2) did not indicate the presence of significant confining layers forming separate hydrogeologic units. In addition, analytical results from these two wells and from MW-2 and MW-17, which indicated the presence of similar suites of both VOCs and pesticides, indicates that there is significant communication between the two aquifer zones. In our opinion, the only difference between the two zones is the change in the flow direction with depth. There is no other significant difference noted and the shallow and intermediate zones do not represent distinct hydrogeologic units or aquifers.

Two deep Type III monitoring wells (MW-4 and MW-12) have been installed on site. These wells were terminated at depths of 64 and 66 feet below grade, respectively. Groundwater elevations measured in these two wells were significantly lower than in other wells on site, possibly indicating

a separate or minimally connected hydrologic unit. In each boring a clay-rich layer was identified at depth which appears to act as an aquitard, limiting the migration of water from the overlying zones. The detection of very low levels of VOCs in MW-4 in the 2002 assessment and very low levels of VOCs and pesticides in MW-12 indicates that there is some communication between the upper and lower aquifer zones.

## 3.2.3 Hydraulic Conductivity

In-situ hydraulic conductivity tests were performed in monitoring wells MW-1, MW-2 and MW-3 in February 2002 and in MW-4 and MW-12 in January 2010. The tests were performed using the slug-test procedures described by Bouwer and Rice (1976, 1989). In the slug-test method, hydraulic conductivity is estimated from the rate of rise of fall of the groundwater level in a well after a solid of know volume, or "slug" is inserted or removed from well. The static water levels in each monitoring well were measured and recorded prior to the tests. For the "slug-in" test, the water level was raised by inserting the slug and the change in water level was measured. Water level measurements were taken over regular intervals the next 15 minutes to 60 minutes to monitor recovery of the water table. For the "slug-out" test, the water level was lowered by removing the slug and monitoring the water level recovery as described above.

Subsequent to the completion of the test, the data were analyzed using the Bouwer and Rice (1976, 1989) method. The results of the "slug-in" and "slug-out" tests were averaged to derive insitu hydraulic conductivity values for the shallow and deep aquifers. The results of the slug tests are summarized below in Table 3-1.

Table 3-1 – Summary of Slug Test Results						
Well No.	Depth	Slug-In	Slug-Out	Depth		
MW-1	Shallow	4.55x10 <sup>-3</sup>	4.4x10 <sup>-3</sup>	Shallow		
MW-2	Intermediate	1.79x10 <sup>-4</sup>	1.08x10 <sup>-4</sup>	Intermediate		
MW-3	Shallow	1.75x10 <sup>-4</sup>	1.97x10 <sup>-4</sup>	Shallow		
MW-4	Deep	4.21×10 <sup>-4</sup>	4.32x10 <sup>-4</sup>	Deep		
MW-12	Deep	4.47×10 <sup>-4</sup>	4.55x10 <sup>-4</sup>	Deep		

The average hydraulic conductivity of the shallow wells, MW-1 and MW-3, based on the slug-test data, was  $2.3 \times 10^{-3}$  cm/sec. We note the hydraulic conductivity calculated for MW-1 is significantly higher than that measured in the any of the other wells located on site, which were all relatively consistent with one another. MW-1 is located outside of the flow path from the contaminant source area to potential downgradient receptors, which coincides with the path of a former swale through the site.

The hydraulic conductivity measured in the intermediate depth well, MW-2 is  $1.4x10^{-4}$  cm/sec. The hydraulic conductivities of the deep wells, MW-4 and MW-12 were very similar to one another and averaged  $4.4 \times 10^{-4}$  cm/sec.

Based on the limited migration of groundwater impacts across the site since Legion's operations began in the 1970s, in our opinion, this hydraulic conductivity measured in MW-1 is not representative of actual site conditions in the impacted area and the site-wide average value of  $1.13 \times 10^{-3}$  cm/sec is a more representative value for hydraulic conductivity across the site. This value was utilized during the modeling of the shallow groundwater zone, as discussed in Section 10.0 and in Appendix D.

#### 3.2.4 **Groundwater Flow**

A summary of the well depths, screened intervals, depth to groundwater and water table elevations is presented in Table 8. A potentiometric surface map of the shallow aquifer zone was prepared based on the groundwater elevation data measured in June 2015 (see Figure 6). Based on these data, shallow groundwater flow is generally to the north. To calculate the average horizontal groundwater gradient, groundwater elevations measured in MW-13 in the southern portion of the site and MW-9 in the northern portion of the site were averaged over the last six groundwater monitoring events and divided by the distance between the two wells. The average gradient was measured to be 0.84%.

Effective porosity was assumed to be 20% (Applied Hydrology, C.W. Fetter, 1994). The formula used to calculate the groundwater flow rate is as follows (Applied Hydrology, C.W. Fetter, 1994):

```
\label{eq:Velocity} \begin{aligned} &\text{Velocity} = \underbrace{\text{K i}}_{n_e} \\ &\text{where: } \text{K} = \text{hydraulic conductivity (feet per day)} \\ &\text{i} = \text{hydraulic gradient (feet per foot)} \\ &n_e = \text{effective porosity (unitless)} \end{aligned} = 3.2 \text{ ft/day} \\ &= 0.0084 \text{ ft/ft} \\ &= 0.20 \end{aligned}
```

Utilizing the average hydraulic conductivity, an estimated groundwater velocity ranging of approximately 0.13 feet/day or approximately 49 feet per year was calculated for the site. Note that organic constituents do not migrate at the same rate as groundwater and also attenuate as they migrate. The calculated flow rate does appear to be consistent with contaminant distribution observed across the site as illustrated in Appendix D.

Groundwater generally flows in directions subparallel to the ground surface slopes and under the influence of gravity toward points of discharge such as creeks, swamps, drainage swales or pumped groundwater wells. The depth to groundwater on site has ranged from approximately three to fifteen feet.

#### 3.2.5 **Vertical Hydraulic Gradient**

The vertical hydraulic gradient at the site was calculated by comparing groundwater elevations within the deep well MW-4 and the adjacent shallow well, MW-13, as measured on June 2, 2015. The difference in groundwater elevation was 23.62 feet. Dividing the difference in groundwater elevation by the difference between the well screen elevations yields a vertical hydraulic gradient of 0.44 ft/ft with the deeper well exhibiting the lower groundwater elevation, indicating a downward hydraulic gradient.

#### 4.0 DESCRIPTION OF THE RELEASE SOURCE

Results of soil and groundwater assessment activities indicate a release of regulated substances in soil and groundwater has occurred at the subject site. This section of the CSR provides a description of the source of the release.

#### 4.1 SOURCE INVESTIGATION

The property was originally listed on the HSI for a known release of vinyl chloride in groundwater and a suspected release in soil exceeding a reportable quantity based on 1994 Phase II findings reported by CSRA.

#### 4.1.1 **VOC Source**

Amec Foster Wheeler was subsequently contracted by Legion in 2000 and tested the groundwater for trichloroethene (TCE) which had not previously been included in the testing program. TCE was detected in MW-1 at a concentration of 350  $\mu$ g/l. The source of TCE in MW-1 was eventually related to the manufacture of commercial kitchen equipment, a process that involved the use of chlorinated solvent degreasers until the early 1990s. Previous environmental assessment reports also noted the possible presence of tanks or buried materials in the area immediately south of the building. Based on the findings of solvent constituents in the groundwater south of the building, this area was investigated as a potential source area.

In May 2001, Amec Foster Wheeler contracted RED-R Services, Inc. to perform a ground-penetrating radar (GPR) survey to explore for possible buried source(s) of the detected TCE. The GPR survey indicated one geophysical anomaly up to 10 feet deep located about 150 feet from the southeast area of the main building. In June 2001, Amec Foster Wheeler advanced four Geoprobe borings (GP-1 though GP-4) in the vicinity of the anomaly to investigate whether it was the source of the TCE detected in MW-1, and additional Geoprobe borings (GP-5 through GP-10) to evaluate the extent of TCE in groundwater around monitoring well MW-1. The results of the groundwater analyses from the Geoprobe borings indicated TCE was present in the shallow groundwater in two borings (GP-5 and GP-10), located east and west of MW-1. TCE was not detected in soil or groundwater in the area of the geophysical anomaly.

In August 2001, monitoring well MW-1 was resampled and TCE was detected in groundwater at a concentration of 180  $\mu$ g/L. Additional Geoprobe borings (GP-11 through GP-19) were installed to further delineate the extent of TCE in groundwater and to assist in identification of a source. TCE was detected in shallow groundwater samples from all nine of the samples at concentrations ranging from 6.7  $\mu$ g/L in GP-15 to 7,200  $\mu$ g/L in GP-14 (converted to PZ-2). PZ-2 was resampled on September 25, 2000 and found to contain TCE at a concentration of 7,800  $\mu$ g/L.

As the highest levels of TCE in groundwater were detected in an area located immediately south of the main building, five shallow (0.5 – 1.0 foot) soil samples (SS-8 through SS-12) were collected in this area in November 2001 to assist in identification of a source area. The soil samples were analyzed for TCE and its degradation products. TCE was detected in all of the soil samples at concentrations ranging from 8.9  $\mu$ g/kg in SS-9 to 190,000  $\mu$ g/kg in SS-12. The only degradation

product detected in those soil samples was cis-1,2-dichloroethene which was detected at concentrations up to 18,000  $\mu$ g/kg (SS-12).

The most likely source of TCE release at the property was thought to be small undocumented releases of solvents in connection with general solvent handling practices and, in particular, practices associated with the former non-contained drum storage area reportedly utilized by the former owners (LUC). This conclusion was based on a number of factors, including:

- The location of the highest concentrations of TCE in groundwater and soil were in the immediate vicinity of the former solvent drum storage area used by the prior owner to store waste. Drums in this area were reportedly stored directly on the ground in an unpaved area with no containment or other procedures to prevent releases.
- The distance of migration of the TCE (600 feet downgradient at a calculated groundwater velocity of 29 feet per year) and the degree of biodegradation of the TCE (to cis-1,2-dichloroethene and vinyl chloride) were consistent with releases that occurred at least 20 years prior to the 2001/2002 assessment.
- Amec Foster Wheeler's systematic efforts to identify a subsurface source indicated no remaining subsurface objects acting as a source.

Use of TCE was terminated at the facility by Legion Industries in the early 1990s. Suspected sources of the release to soil and groundwater in the southern area of the property identified in the 2002 CSR were: past handling practices of spent solvents, the former storage of drums in this area by LUC and possibly the former ASTs reportedly maintained by Atlas Chemicals; however it is not known whether Atlas utilized TCE in its on-site processes. Small undocumented releases of spent solvents would account for the presence of the detected compounds in shallow soil in the southern portion of the site.

Additional soil assessment conducted by Amec Foster Wheeler in 2010 identified impacts around the former degreaser pit which had been installed in the early 1970s.

In response to EPD's NOD letters in 2009/2010, Amec Foster Wheeler conducted additional assessment in the area south of the building. As discussed in more detail in Section 4.3, a number of previous boring locations were resampled at greater depth and/or for a wider range of regulated constituents. The 2010 findings for VOCs were generally consistent with previous Amec Foster Wheeler data. TCE and its breakdown products cis-1,2-DCE and vinyl chloride, along with tetrachloroethene (PCE) were identified in several borings located immediately south of the building at generally low to moderate concentrations. The concentrations detected tended to be significantly lower than had previously been detected in very shallow samples collected in 2001. Results of additional testing conducted in the vicinity of the previously identified geophysical anomaly were consistent with previous findings of no VOC impacts to soil in this area.

#### 4.1.2 Pesticide Source

The subject site had been used for approximately 15 years (late 1950s - 1971) for the manufacture of pesticides by Atlas Chemicals. Atlas reportedly stored quantities of these materials within and just outside the southern portion of the building (an area now within the building following the building expansion by LUC). Limited testing conducted by CSRA in 1994 did not identify pesticides

in soil or groundwater. In response to EPD's NOD letters in 2009/2010, Amec Foster Wheeler conducted additional assessment within the southern end of the building and in the area immediately south of the building. As discussed in more detail in Section 4.3, four borings were installed inside the building and a number of previous boring locations were resampled at greater depth and/or for a wider range of regulated constituents. The 2010 findings identified a number of pesticides in soil and groundwater in the area immediately south of the building and inside the building in the vicinity of the former degreasing pit. Pesticide concentrations in soil were highest in the area of the degreasing pit, which had been the outside pesticide storage area before building expansion by LUC. Moderate pesticide concentrations were detected immediately south of the building. Testing conducted in the vicinity of the previously identified geophysical anomaly identified only very limited pesticide impacts in soil.

#### 4.2 REGULATED SUBSTANCES RELEASED FROM THE SOURCE

The substances identified in soil at the site include: 1,4-dichlorobenzene, chlorobenzene, cis-1,2-dichloroethene, ethylbenzene, isopropylbenzene, tetrachloroethene, toluene, trichloroethene, vinyl chloride, xylenes, barium, chromium, lead, 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, aldrin, alpha-BHC, alpha chlordane, beta-BHC, delta-BHC, dieldrin, endrin, endrin ketone, gamma-BHC, gamma-chlordane, heptachlor, heptachlor epoxide and toxaphene.

The substances identified in groundwater at the site include: 1,1-dichloroethane, 1,1-dichloroethene, 1,2,4-trichlorobenzene, 1,2-dichlorobenzene, 1,4-dichlorobenzene, benzene, chlorobenzene, cis-1,2-dichloroethene, ethylbenzene, isopropylbenzene, methylene chloride, tetrachloroethene, trans-1,2-dichloroethene, trichloroethene, vinyl chloride, xylenes, 4,4'-DDD, 4,4'-DDT, alpha-BHC, alpha chlordane, beta-BHC, delta-BHC, dieldrin, endrin, endrin ketone, gamma-BHC, gamma-chlordane and toxaphene.

## 4.3 CHRONOLOGY OF THE RELEASES

Other than the assumption that the pesticide and VOC releases occurred in association with different businesses, specific information regarding the chronology of the releases is not available. As discussed in Section 1.0, the former Atlas Chemical facility operated as a pesticide manufacturer on site from the late 1950s until the early 1970s. It is likely that the releases of pesticides occurred during this time period. It is not known whether Atlas utilized chlorinated solvents during its operation at the site. LUC began operation on site in 1971 and utilized chlorinated solvents in its manufacturing process. Legion acquired the site in 1988 and operated in a capacity very similar to LUC until the early 1990s when it discontinued the use of chlorinated solvents, substituting a detergent rinse process. Following the change in the degreasing process, the degreasing equipment was removed from the site and the concrete-lined degreaser pit that formerly housed the equipment was filled in and covered with a concrete slab in the early 1990s.

#### 5.0 DELINEATION OF SOIL CONTAMINATION

Soil samples were collected for laboratory analysis during several phases of investigation conducted between 2001 and 2010. These assessments included soil sampling from 19 groundwater monitoring wells, six piezometers, 42 soil borings. Refer to Figures 8 and 9 for a plan of the sampling locations and Tables 1-5 for a summary of the soil laboratory data.

#### 5.1 ANALYTICAL PARAMETERS SELECTED

Soil samples collected during previous sampling activities conducted between 2001 and 2010 by Amec Foster Wheeler were analyzed for a limited number of volatile organic compounds (VOCs, SW-846 Test Method 8260B) and metals (SW-846 Test Method 6010).

Due to the former use of the site by Atlas Chemicals, a manufacturer of pesticides, at EPD's request, during the assessments conducted at the site by Amec Foster Wheeler in 2010, soil samples were tested for the presence of the full suite of VOCs (SW-846 Test Method 8260B), Pesticides (SW-846 Test Method 8081B), Herbicides (SW-846 Test Method 8151A) and RCRA metals (SW-846 Test Method 6010C and 7471B). Herbicides were removed from the suite of analytes during post-2010 assessments as no herbicides had been detected in soil or groundwater.

#### 5.2 SAMPLING AND ANALYSIS PROCEDURES

## 5.2.1 Sampling Equipment and Collection Techniques

Soil samples from direct-push (Geoprobe) borings were collected using a four-foot long stainless steel sampling tube which is lined with a polyethylene sleeve and driven into the ground to the desired sampling depth. Soil samples collected from auger borings during groundwater monitoring well installation were collected using a split-spoon sampler and the standard penetration test method. Other samples were collected during the 2001 assessments using a stainless steel hand auger. Several of these boring locations were resampled using a Geoprobe.

## 5.2.2 Soil Sample Handling and Preservation Techniques

The collected soil samples were removed from the sampling device and placed in clean sample containers supplied by the laboratory. Soil samples for laboratory testing of VOCs were collected in accordance with SW-846 Method 5035 (the syringe method) and preserved in the field with sodium bisulfate and methanol. Samples were collected for metals, pesticide and herbicide analysis in unpreserved containers. Clean nitrile gloves were worn during all sampling activities and the gloves were then discarded. Following sample collection, the samples were maintained on ice in a cooler until they were transferred to the laboratory.

## 5.2.3 Equipment Decontamination Procedures

Soil sampling tools and equipment, including drill rigs were decontaminated prior to beginning work on the site. During drilling operations, only clean drilling tools were used in each borehole. The split spoons and direct-push sampling tubes were decontaminated between samples and clean polyethylene liners were used for each Geoprobe sample. Clean nitrile gloves were used during the collection of all soil samples. Gloves were changed prior to the collection of each soil sample.

## 5.2.4 Chain-of-Custody Procedures

All collected samples were logged on a chain-of-custody form that was signed by the Amec Foster Wheeler field representative and the laboratory representative upon release of the samples to the laboratory. Chain-of-custody documentation are provided with the laboratory reports in Appendix A.

## 5.2.5 **Laboratory Analytical Procedures**

## **5.2.5.1 Standard Analytical Methods**

Following delivery to the laboratory, selected soil samples collected by Amec Foster Wheeler were analyzed for VOCs using SW-846 Test Method 8260B, Pesticides using SW-846 Test Method 8081, Herbicides using SW-846 Test Method 8151 and RCRA metals using SW-846 Test Method 6010C and 7471B.

#### **5.2.5.2 Quality Control Procedures**

Quality control samples were prepared and analyzed during the assessment. Duplicate soil and groundwater samples were tested. Trip blanks and field blanks were included with the samples submitted to the laboratory. The trip blanks were provided by the laboratory and consisted of 40-ml vials filled with water. Results of the trip blank analyses are included in the laboratory reports. Results of Surrogate analysis are also included in the laboratory reports. Backup QA/QC data for these samples were included in laboratory reports for each assessment phase.

The soil samples collected by Amec Foster Wheeler were submitted to Analytical Environmental Services, Inc. (AES) for laboratory analysis. AES maintains a National Environmental Laboratory Accreditation Conference (NELAC) certification for the analysis of volatile organics, pesticides, herbicides and metals.

## 5.3 SUMMARY OF PERTINENT SOIL TESTING DATA

A number of assessments have been completed on site by Amec Foster Wheeler and its predecessors since 2001. The laboratory data are summarized on Tables 1 through 5 and on Figures 8 and 9.

All downhole equipment, tools and materials were decontaminated prior to use and between each boring to minimize the potential for introduced and/or cross contamination. Decontamination of equipment and appropriate sampling protocols were observed throughout the drilling operation to preclude the introduction of contaminants. The field work was supervised by environmental professionals and the work was conducted under the provisions of our Health and Safety Plan.

Soils beneath the building slab consisted primarily of a layer of fill soil approximately two to four feet thick overlying virgin soils which consisted of interbedded sandy clays and clayey sands. Similar virgin soils were encountered outside the building but were overlain by a thinner layer of fill material (see attached boring logs in Appendix B). The soil borings were terminated near the water table.

#### 5.3.1 **2001/2002** Assessments

In June 2001, Amec Foster Wheeler advanced four Geoprobe borings (GP-1 though GP-4) in the vicinity of the identified geophysical anomaly to investigate whether it was the source of the TCE detected in MW-1. TCE was not detected in soil samples collected from these borings.

In accordance with EPD's request for additional soil sampling to assess the lateral extent of VOCs reported by CSRA in May 1994, seven shallow soil samples (SS-1 through SS-7) were collected in July 2001 from a depth of three feet each in seven hand auger borings located along the eastern site boundary, in the area of the former septic drain field and west of the main building. The borings were positioned to delineate the 1994 CSRA soil borings B-5, B-6 and B-7. VOCs were not detected in these seven borings.

As the highest levels of TCE in groundwater had been detected in an area located immediately south of the main building, five shallow (0.5 – 1.0 foot) soil samples (SS-8 through SS-12) were collected in this area in November 2001 to assist in identification of a source area. The soil samples were analyzed for TCE and its degradation products. TCE was detected in all of the soil samples at concentrations ranging from 8.9  $\mu$ g/kg in SS-9 to 190,000  $\mu$ g/kg in SS-12. The only degradation product detected in those soil samples was cis-1,2-dichloroethene which was detected at concentrations up to 18,000  $\mu$ g/kg (SS-12).

#### 5.3.2 **2010** Assessment

Following the submission of the CSR in 2002 and EPD's subsequent review and comments, additional soil testing was requested in areas previously assessed. Much of the additional testing involved sampling at previous boring locations, either testing deeper samples and/or testing for a wider range of constituents. On January 26-27, 2010, Amec Foster Wheeler installed a total of 16 direct-push borings on site for the purpose of collecting additional soil samples at previous boring locations. Note that the same boring designation was used for the resampling of previous borings.

Soil samples were collected from former boring locations GP-1 through GP-4 (around the GPR anomaly) at a depth of three feet and tested for VOCs, pesticides, herbicides and RCRA metals. This sampling depth was selected for GP-1 through GP-4 because it corresponded to the previous sampling depth and the purpose was simply to expand the testing scope. The results obtained very low concentrations of pesticides in GP-1 and GP-4. All concentrations detected were below applicable risk reduction standards (RRS). Neither VOCs nor herbicides were detected in these four borings. Low concentrations of the metals barium, chromium and lead were also detected in each boring at concentrations consistent with Coastal Plain soils and two on-site background samples.

At EPD's request, Amec Foster Wheeler installed a series of soil borings (DP-1 through DP-4) around the former degreaser pit location inside the facility. Each boring was sampled at a depth of approximately three feet and tested for VOCs, pesticides, herbicides and RCRA metals. The results from DP-1 through DP-4 identified concentrations of numerous VOCs that exceeded the least stringent RRS. These included: TCE, cis-1,2-DCE, vinyl chloride, ethylbenzene and xylenes. Elevated concentrations of both toluene and isopropylbenzene were also detected but at concentrations below applicable RRS.

A number of pesticides were also detected in excess of applicable RRS in this area. These include: 4,4'-DDT, aldrin, alpha-BHC, beta-BHC, delta-BHC, gamma-BHC, dieldrin, heptachlor, heptachlor epoxide and toxaphene.

No herbicides were detected in the DP borings and the metals concentrations detected were again consistent with naturally occurring background conditions.

## **5.3.3 2013 VRP Assessment**

Following the site's acceptance into the VRP, additional assessment activities were conducted which included soil sampling and testing inside the building and in the area immediately south of the building. The purpose of this additional sampling was to delineate the lateral extent of VOCs and pesticides above risk reduction standards in each of these areas as requested by EPD in their 2011 CSR comment letter.

On January 3 and 4, 2013, Amec Foster Wheeler oversaw the installation of a series of soil test borings using a direct-push sampling device. Degreaser pit borings DP-9 through DP-19 were located inside the building, in the areas generally north, west and southwest of the former degreaser pit. These borings supplemented previous DP borings installed in 2010. These borings were intended to complete the delineation of the lateral extent of VOCs and pesticides which had previously been detected in the degreaser pit area at concentrations that exceeded non-residential RRS. Partial delineation had previously been achieved along the east wall of the building and immediately south of the former pit.

Four interior delineation borings (GP-9 through GP-12) were installed in the areas surrounding the previous borings that exhibited VOC and pesticide RRS exceedences (DP-1, DP-2, DP-5 and DP-8) at a distance of approximately 10 to 12 feet from the impacted borings. Additional borings (GP-13 through GP-19) were then installed a distance of approximately 15 feet farther out from the initial delineation borings to be tested in the event that the samples closer to the pit exhibited exceedences of applicable RRS. Of these seven borings, only two (GP-15 and GP-17) required testing to complete the interior delineation. In response to a comment by EPD regarding the spacing of confirmation samples on the eastern side of the interior soil excavation area, in August 2018, Wood installed an additional soil boring (DP-9) in the area between borings DP-6 and DP-7 to confirm adequate removal of impacted soils in this area. As illustrated on Figure 12, neither VOCs nor pesticides were detected in the sample collected from boring DP-9.

Borings SS-13 through SS-17 were installed in the area south of the building to delineate the lateral extent of VOC soil impacts previously detected in this area in excess of non-residential RRS. Borings SS-13 through SS-17 were installed in the area surrounding previous borings SS-8 and SS-12, in which VOC exceedances had previously been detected above. A single series of delineation borings was installed in this area as previous testing had largely determined the maximum extent of impacts. The purpose of the SS borings was to attempt to narrow the scope of required soil removal in this portion of the site.

The GP borings (located inside the building) were extended to a depth of 10 feet below the floor slab. Groundwater was encountered in these borings at a depth of approximately 4 to 4.5 feet. The SS borings (located outside the building) were extended to depth of five feet below ground

surface. Groundwater was encountered at a slightly shallower depth outside the building because the building slab is elevated slightly above the surrounding grade.

One soil sample collected from above the water table from each of the four borings located closest to the former degreaser pit (GP-9 through GP-12) was selected for laboratory testing. The soil samples were analyzed for VOCs (EPA Method 8260B) and pesticides (EPA Method 8081A). The results of the soil testing are summarized on the attached Table 3 and on Figure 9, which also includes previous soil testing data in the immediate vicinity of the delineation borings.

SS-1 through SS-12 were sampled at depths of approximately three feet and tested for VOCs, pesticides, herbicides and RCRA metals. In the case of SS-8 through SS-12, the purpose was to both expand the testing scope and to obtain deeper samples for vertical delineation as the previous samples from these borings were collected from a depth of 0.5 - 1 foot. Note that the sampling depth was limited to approximately three feet below ground surface as the groundwater depth on site is very shallow (less than four feet). None of the SS borings exhibited detectable concentrations of herbicides and the metals concentrations detected were consistent with naturally occurring background conditions.

Results of the VOC testing from the SS borings confirmed the presence of VOCs in the area south of the building. Constituents detected included TCE, tetrachloroethene (PCE), cis-1,2-DCE, vinyl chloride, 1,4-dichlorobenzene and chlorobenzene. The VOC concentrations detected were below applicable risk reduction standards with the exception of TCE in boring SS-8-3' (1,900 ug/kg). Borings SS-1 through SS-7, located away from the area immediately south of the building did not exhibit VOCs.

Several pesticides were identified in borings SS-8, SS-10, SS-11 and SS-12 which had not previously been detected on site. The pesticide concentrations detected were generally low to moderate and in all cases were below at least one applicable RRS as discussed in Section 9.1. and Table 9-1. Borings SS-4 through SS-7 were located in the northern and western portions of the site and did not exhibit VOCs or pesticides.

#### 5.4 BACKGROUND SOIL CONCENTRATIONS

Because the suspected VOC, and pesticide constituents in soil are not characteristic of naturally occurring conditions in Georgia soils, naturally occurring background conditions on the affected property were assumed to be below laboratory detection limits for these constituents. The metals that had previously been detected on site, barium, chromium and lead are naturally occurring. In order to evaluate local background conditions, two shallow background soil samples (Background-1 and Background-2) were collected during Amec Foster Wheeler's 2010 assessment. These samples were collected from the grassy field in the northern portion of the site, well away from plant activities which might be expected to impact shallow soil metals concentrations. The results of the analyses showed low levels of barium, chromium and lead in one sample and barium and chromium in the other. The concentrations were typical of those exhibited by Georgia soils and are consistent with metals concentrations detected elsewhere on the subject site.

#### 6.0 DELINEATION OF GROUNDWATER CONTAMINATION

The wells installed on site were intended to evaluate the horizontal and vertical extent of contamination.

## 6.1 ANALYTICAL PARAMETERS SELECTED

Groundwater samples were initially analyzed only for a very limited number of VOCs. During Amec Foster Wheeler's 2009/2010 assessments, groundwater samples were tested for VOCs, pesticides and herbicides. Due to the lack of detection of herbicides in groundwater and the lack of elevated metals concentrations in soil, groundwater samples collected during the VRP monitoring events were limited to VOCs and pesticides.

#### 6.2 MONITORING WELL LOCATIONS AND CONSTRUCTION METHODS

Groundwater assessments were conducted at the site by Amec Foster Wheeler between June 2001 and March 2002 for preparation of the original CSR. Additional groundwater assessment was conducted by Amec Foster Wheeler in December 2009 and January 2010 in response to EPD's comments on the CSR. Much of the initial groundwater sampling was conducted using directpush borings. Some of these borings were sampled directly while others, due to the slow recharge of the site's soils were sampled through temporary one-inch diameter PVC casing. The purpose of the direct-push sampling was to obtain preliminary groundwater data which would allow for better placement of permanent monitoring wells which would be utilized to obtain data for preparation of the CSR. A total of 36 Geoprobe borings were installed for the sampling of groundwater. Two of these were unable to be sampled. The remaining 34 borings were tested for a limited spectrum of VOCs. Based on the results obtained, Amec Foster Wheeler installed eight additional wells (MW-4 through MW-11) on site and in the immediately surrounding area, including two in the Burke County easement east of the site and two in the Davis Road right-ofway west of the site. Two additional wells (MW-12 and MW-13) were installed by Amec Foster Wheeler in January 2010 to address EPD comments. Six more wells (MW-14 through MW-19) were installed in June 2014 under the VRP to provide additional source area data or to fill perceived data gaps as requested by EPD. One additional well (MW-20) was installed by Wood near the northern site boundary in August 2018 in response to an EPD comment after submittal of the 2016 CSR. The locations of these groundwater monitoring wells are shown on Figure 10.

Note that Legion Industries has attempted to gain access to Helena Chemical Company property west of the site and the Synergy Group, LLC property east of the site in order to conduct additional groundwater sampling in these areas. In each case, permission to access the off-site properties was denied. Documentation of these contacts is attached in Appendix H.

The shallow wells on site were installed as Type II wells as described below. The two deep wells on site (MW-4 and MW-12) were installed as deep Type III wells to reduce the potential for shallow groundwater contamination to influence the testing results from the deeper aquifer. Well construction consisted of six-inch outer casings which were grouted in place at depths of 47.5 and 52 feet, respectively. After setting overnight, the casing interior was reamed and the boring extended to the final depth. The wells were completed with two-inch diameter well casings installed through the outer casing and finished as described below.

## 6.2.1 Type of Well Casing Material

The monitoring wells installed on site consist of Schedule 40 PVC well casing and screen with threaded joints. Monitoring wells MW-1 through MW-4, and MW-12 through MW-20 consist of two-inch diameter PVC pipe. Monitoring wells MW-5 through MW-11 were constructed with one-inch diameter PVC.

#### 6.2.2 **Description of Well Intake Design**

## 6.2.2.1 Screen Slot Size and Length

Each of the drilled wells on site was constructed with 0.01-inch factory slotted PVC well screen. Monitoring wells MW-1 through MW-3 and MW-14 through MW-19 utilized a 5-foot screen length. Monitoring wells MW-4 through MW-13 and MW-20 utilized a 10-foot screen length.

## 6.2.2.2 Filter Pack Materials and Length

Washed 20/30 sieve size quartz sand was used to create the filter pack around the well screen in each of the wells. The sand extended to a height of approximately one to two feet above the top of the screen (see boring logs in Appendix B).

#### **6.2.2.3 Method of Filter Pack Emplacement**

The sand pack in the augered wells was placed around the screen by pouring the sand through the hollow-stem augers while simultaneously raising the augers to prevent bridging of the sand within the augers. Sand was placed around the Geoprobe well screen by pouring the sand around the well screen from the surface. The filter pack was then sealed from above with a one to two-foot layer of hydrated bentonite clay.

#### 6.2.2.4 Surface Seal

The wells were grouted to within approximately six inches of the ground surface with Portland cement grout (Type II well construction). These wells were then topped with lockable steel covers, either flush-mount or stick-up.

#### **6.2.2.5 Well Development Methods and Procedures**

During the 2001 assessments, monitoring wells MW-1 through MW-3 and MW-5 through MW-11 were developed at least 24 hours following installation using a peristaltic pump and polyethylene tubing. MW-4 was developed using a decontaminated bailer. Monitoring well MW-12 was developed using a submersible pump and wells MW-13 through MW-20 were developed using a peristaltic pump and Teflon-lined tubing at least 24 hours after installation. The parameters temperature, pH, specific conductivity and turbidity were periodically monitored during well development. Development continued until these parameters stabilized pursuant to EPA methodology and a minimum of five well volumes of water were removed during well development.

#### 6.3 SAMPLING AND ANALYSIS PROCEDURES

#### 6.3.1 **Groundwater Elevation**

During each groundwater monitoring event, groundwater levels were measured in each well from the top of the well or piezometer casing. As discussed in Section 5.4, a survey was conducted to

measure the elevation of the top of each well casing for preparation of potentiometric surface maps (see Figures 6 and 7).

#### 6.3.2 Well Evacuation Procedures

Well purging was accomplished using a peristaltic pump and Teflon tubing for all wells except MW-4 and MW-12 which utilized submersible pumps. During purging, the parameters temperature, pH, specific conductivity and turbidity were monitored and submitted in the previous reports. Purging continued until these parameters stabilized pursuant to EPA methodology and a minimum of three well volumes were removed or the well went dry.

## 6.3.3 Groundwater Sampling, Handling and Preservation

Immediately following purging, groundwater samples were collected using a peristaltic pump and low-flow sampling procedures. Clean latex gloves were worn during all development and sampling activities and were changed between each well location.

Samples were collected in clean sample containers, supplied by the laboratory, which contained the appropriate preservative. 40ml glass vials were used for the collection of groundwater samples for VOC analysis. VOC samples obtained by Amec Foster Wheeler were collected using a peristaltic pump by allowing the tubing to fill and then sealing the end near the pump, removing the tubing from the well and allowing it to gravity drain into the VOC vials to minimize turbulence and reduce the potential for volatilization (the straw method). The vials were completely filled, with no bubbles or headspace. Samples to be tested for pesticides and herbicides were collected using a low flow peristaltic pump with the discharge line discharging directly into the sample container. Following sample collection, the bottles were stored on ice in a cooler until they were transferred to the laboratory. The samples were maintained under strict chain-of-custody control from the time they were collected until they were relinquished to the laboratory.

#### 6.3.4 **Decontamination Procedures**

Decontamination procedures consisted of the use of clean, unused tubing at each sampling location. Nitrile gloves were also worn and changed between each sampling location. Tubing was disposed of after each use. No equipment was used to sample more than one well.

#### 6.3.5 Laboratory Analytical Techniques

#### **6.3.5.1** Analytical Procedures

The samples collected during the 2001 assessments were submitted to Severn Trent Laboratories in Savannah, Georgia and tested for the presence of a limited range of VOC constituents using SW-846 Test Method 8260B.

Groundwater samples collected by Amec Foster Wheeler in 2009/2010 were submitted to Analytical Environmental Services, Inc. in Atlanta, Georgia and tested for the presence of the full suite of VOCs, plus 1,4-dioxane, pesticides (SW-846 Test Method 8081) and herbicides (SW-846 Test Method 8151).

Groundwater samples collected by Amec Foster Wheeler in 2013-2018 VRP sampling events were submitted to either Analytical Environmental Services, Inc. or Pace Analytical Services, Inc. and tested for the presence of VOCs and pesticides.

## **6.3.5.2 Quality Control Samples**

The groundwater samples were maintained under chain-of-custody control and submitted to the analytical laboratory for testing. Duplicate samples and field blanks were tested. Trip blanks prepared by the laboratory were also submitted for testing. QA/QC was conducted in accordance with the laboratory analysis selected. Backup QA/QC data for these samples was included in the laboratory reports.

## **6.3.5.3 Chain-of-Custody Procedures**

Samples collected during the assessment were delivered to the analytical laboratory under strict chain-of-custody protocol. From the time of collection until they were released to the laboratory, the samples were stored in ice-filled coolers. Chain-of-Custody records documenting the transfer of the samples to the laboratory were maintained and are included in the laboratory reports in Appendix A.

## 6.4 BACKGROUND GROUNDWATER QUALITY

Because the VOCs, pesticides and herbicides in question are not typical of naturally occurring substances in the Coastal Plain, naturally occurring background conditions for these constituents at the subject property were assumed to be below laboratory detection limits.

#### 6.5 SUMMARY OF GROUNDWATER TESTING RESULTS

The groundwater testing results are summarized in Table 7 and on Figure 10.

#### 6.5.1 Pre-VRP Sampling and Testing

The first groundwater assessment on site was conducted by CSRA in 1994 as part of an assessment related to a refinancing transaction. Groundwater samples were obtained from open boreholes and were of questionable quality. In order to confirm the 1994 findings, three monitoring wells (MW-1 through MW-3) were installed on site by Amec Foster Wheeler in 2000 and sampled for a very limited suite of VOCs and metals that CSRA had reportedly identified in groundwater. Barium was the only regulated constituent identified and it was considered to be representative of background conditions.

On April 25, 2001, Amec Foster Wheeler purged and resampled monitoring wells MW-1 and MW-3. TCE was detected in groundwater from MW-1 at a concentration of 350  $\mu$ g/L. TCE was not detected in the groundwater sample from MW-3.

Between June 2001 and March 2002, in response to EPD's requirement that a CSR be submitted for the site, Amec Foster Wheeler conducted extensive sampling of groundwater in preparation for submittal of the CSR. These activities included additional confirmation sampling of the three existing monitoring wells (MW-1 through MW-3), the advancement of 36 Geoprobe borings and the installation, development and sampling of eight additional groundwater monitoring wells (MW-4 through MW-11).

The assessments were executed in several phases and the Geoprobe borings were advanced in a step-out fashion. If target analytes were encountered in groundwater, additional borings were advanced at greater distance from the point of detection. This approach was used to develop the placement of the groundwater monitoring wells necessary for the preparation of the 2002 CSR.

Because of the slow recharge of the site's clayey soils, one-inch PVC casing, sanded in place, was placed in many of the Geoprobe borings and the casings were purged prior to sampling. Three Geoprobe borings GP-14, GP-17 and GP-18) were converted to piezometers (PZ-2, PZ-3 and PZ-1, respectively). These piezometers were purged and sampled several times with consistent results. PZ-1 and PZ-3 were subsequently destroyed while PZ-2 remains in place.

Twenty Geoprobe borings (GP-1 through GP-20) were advanced at the site between June and August 2001 in order to identify potential sources of TCE in MW-1 which was believed to be an upgradient well, and to delineate the horizontal and vertical extent of TCE in groundwater. Borings GP-14, GP-17 and GP-18 were converted to piezometers PZ-2, PZ-1 and PZ-3, respectively. Boring GP-20 was advanced to assess groundwater at greater depth (15 feet) in a suspected release area identified during a geophysical survey as discussed in Section 3.1.

In September 2001, Amec Foster Wheeler advanced four additional Geoprobe borings (GP-21 through GP-24) along the eastern site boundary to further delineate the extent of TCE in groundwater. TCE was detected in groundwater sampled from each of these borings at concentrations ranging from 28 to 830  $\mu$ g/l. In addition, piezometer PZ-2 was resampled and the presence of TCE was confirmed at 7,800  $\mu$ g/L.

In November 2001, groundwater was sampled from eight additional Geoprobe borings (GP-25 through GP-32), the three piezometers (PZ-1 through PZ-3) and monitoring well MW-2. Boring GP-32 was advanced to an approximate depth of 15 feet in the vicinity of PZ-2 to assess the vertical extent of the target constituents in groundwater. All samples were analyzed for TCE and its degradation products (1,1-dichloroethane, 1,2-dichloroethane, 1,1-dichloroethene, 1,2-dichloroethene, cis-1,2-dichloroethene (cis-1,2-DCE), trans-1,2-dichloroethene (trans-1,2-DCE), vinyl chloride and chloroethane). TCE was detected in the groundwater sample from piezometer PZ-1 at a concentration of 130  $\mu$ g/l, similar to that which had been detected in August 2001. TCE was not detected in PZ-3, whereas it had been detected at a low concentration (10  $\mu$ g/l) in August 2000. TCE was detected in PZ-2 at a concentration of 3,800  $\mu$ g/l, significantly lower than the previous sampling events (7,200 and 7,800  $\mu$ g/l). TCE was detected in MW-2 at a concentration of 25  $\mu$ g/l and in GP-32 (the deeper Geoprobe boring located in the source area) at a concentration of 16,000  $\mu$ g/l. VOC compounds were not detected in the groundwater samples from GP-25, GP-26 or GP-27. The borings GP-28 and GP-29 were dry and could not be sampled.

The TCE degradation products cis-1,2-DCE and vinyl chloride were also detected in groundwater during the November 2001 sampling event. Vinyl chloride was detected at concentrations ranging from 630 to 6,800  $\mu$ g/l while cis-1,2-DCE concentrations ranged from 480 to 16,000  $\mu$ g/l.

Due to the presence of TCE degradation products in groundwater, in December 2001, MW-3, which had previously been tested only for TCE, was resampled and tested for both TCE and its degradation products. Neither TCE nor its degradation products were detected at that time.

Based on these findings, in January 2002, four additional Geoprobe borings were installed. Three of these borings (GP-33 through GP-35) were intended to delineate the lateral extent of groundwater impacts in the southwest, northwest and northeast areas of the site while the fourth (GP-36) was intended to delineate the vertical extent of groundwater impacts in the suspected source area. In addition, GP-29, which had previously been dry, contained water and was sampled.

TCE and its degradation products were not detected in either GP-29 or GP-34. TCE and cis-1,2-DCE were detected in groundwater from the remaining borings, including samples from depths of 25 and 35 feet in GP-36. Vinyl chloride was also detected in the two samples collected from GP-36.

Based on the data obtained from the Geoprobe groundwater testing program, several locations were selected for the installation of groundwater monitoring wells. In February 2002 eight additional groundwater monitoring wells (MW-4 through MW-11) were installed on site. MW-4 was installed as a deep Type III well, intended to vertically delineate groundwater impacts in the suspected source area. MW-5 through MW-11 were installed as Type II wells at depths ranging from 13 to 25 feet to assess shallow groundwater conditions.

TCE and its degradation products were not detected in MW-4, indicating that vertical delineation had been accomplished in the suspected source area. TCE was detected in shallow groundwater from monitoring wells MW-1, MW-2, MW-6, MW-7 and MW-10 at concentrations ranging from 11 to 140  $\mu$ g/L. Cis-1,2-DCE was detected in shallow groundwater from monitoring wells MW-1, MW-2, MW-6 and MW-7 at concentrations ranging from 6 to 270  $\mu$ g/L. Vinyl chloride was not detected in any of the monitoring well samples.

Based on the groundwater testing results obtained and the risk reduction standards calculated for the site and included in the 2002 CSR, Amec Foster Wheeler concluded that concentrations of TCE, cis-1,2-DCE and vinyl chloride were present in groundwater at concentrations in excess of the Type 4 RRS for groundwater. This conclusion was documented in the CSR submitted to EPD in March 2002.

Following their review of the 2002 CSR, EPD commented that existing wells should be sampled for the full suite of VOCs, pesticides and herbicides. EPD also requested a shallow well be paired with MW-4 in the suspected source area and a second deep well be installed downgradient of the suspected source area. In response to EPD's comments regarding the 2009 CSR, Amec Foster Wheeler conducted additional assessment of the groundwater conditions on site between November 2009 and January 2010. The assessment included the resampling of all existing wells on site (except for MW-7 and MW-8, which could not be located) and the installation of two additional wells (MW-12 and MW-13). At EPD's request the wells were sampled for a wider range of regulated constituents, including the full spectrum of VOCs, pesticides and herbicides. The results of the 2009/2010 groundwater sampling identified a variety of VOCs as well as pesticides in a number of wells located in the southern and central portion of the site.

The highest concentrations of VOCs were detected in the suspected source area immediately south of the building. These results were consistent with earlier findings at the site. However, in the past, only TCE, cis-1,2-DCE and vinyl chloride were detected. During the recent testing, these same three compounds exhibited the highest concentrations, notably TCE as high as  $57,000 \,\mu\text{g/L}$ , cis-1,2-DCE as high as  $8,000 \,\mu\text{g/L}$  and vinyl chloride as high as  $3,300 \,\mu\text{g/L}$ . The TCE concentration in PZ-2 was significantly higher in 2009 than had been detected previously; however, concentrations of both cis-1,2-DCE and vinyl chloride were substantially lower in 2009 than in 2001.

Lower concentrations of other VOCs were also detected in groundwater in MW-13 and/or PZ-2 including: 1,1-dichloroethane, 1,1,2-trichloroethane, 1,1-dichloroethene, 1,2,4-trichlorobenzene, 1,2-dichlorobenzene, 1,4-dichlorobenzene, benzene, isopropyl benzene, chlorobenzene, methylene chloride, tetrachloroethene, trans-1,2-dichloroethene and xylenes. Regulated constituents were not detected in the deep well, MW-4, located in this area.

A variety of pesticides were also detected in groundwater on site. Again, the most significant impacts, both in concentration and the number of constituents detected, were in MW-13 and PZ-2, in the suspected source area. The pesticides detected in groundwater on site include: 4,4′-DDD, 4,4′-DDT, alpha-BHC, alpha chlordane, beta-BHC, delta-BHC, dieldrin, endrin, endrin ketone, gamma-BHC, gamma chlordane and toxaphene.

All of the groundwater samples collected during the 2009/2010 assessment were tested for herbicides. None of the samples tested exhibited detectable concentrations of herbicides.

In addition to the groundwater sampling and testing that was performed in 2009/2010, at EPD's request, Amec Foster Wheeler collected two surface water samples from the drainage ditch located along the northern site boundary. The two samples, SW-1 and SW-2 were tested for the presence of VOCs, pesticides and herbicides. No regulated constituents were detected in the two surface water samples tested.

## 6.5.1 Post-VRP Sampling and Testing

Beginning in December 2013, following completion of the soil remediation, all wells which could be located were sampled under the VRP on a semi-annual basis. Four such sampling events have occurred, in December 2013, June 2014, December 2014 and June 2015. The results of the semi-annual monitoring are summarized below. In response to an EPD comment after submittal of the 2016 CSR, in August 2018, Wood installed another shallow well (MW-20) near the northern (downgradient) boundary of the site to confirm the delineation of regulated constituents in this area. Cumulative testing results are illustrated on Figure 10 and summarized in Table 7. Appendix F contains figures depicting isopleths of the constituents detected in in groundwater. Contaminant trend graphs are also included in Appendix F.

## **6.5.1.1 Volatile Organic Compounds**

The laboratory results obtained during the VRP monitoring events indicated variability in VOC concentrations in groundwater throughout the site with some areas showing limited increases and others showing decreases. VOC concentrations increased in the area immediately south of the building, near the impacted soil area that was excavated in 2013 around PZ-2 but decreased significantly in nearby MW-13. The highest recent TCE concentration of 46,300 µg/L was detected in PZ-2. This concentration remains below the historic high of 57,000 detected in 2009 as do the concentrations of other chlorinated VOCs (CVOCs). VOC concentrations in MW-4 were very low and remained stable since testing began in 2001. MW-4 is a deep well located in the assumed source area. This well has not exhibited VOC concentrations in excess of their Type 1 RRS since it was first sampled in 2002, indicating vertical delineation has been achieved. VOC concentrations in MW-18 have decreased slightly during the three sampling events for this well, with TCE, cis-DCE, and vinyl chloride remaining above their respective RRS.

Non-chlorinated VOCs at the soil remediation area inside the building in MW-19 decreased substantially since the highest concentrations observed in this well in December 2014. The concentrations of CVOCs in MW-19 also decreased significantly compared to the previous monitoring event, although not nearly to the extent observed with the non-chlorinated VOCs. Concentrations of both ethylbenzene and xylenes were the highest on site during the December 2014 monitoring event. The most recent results were 16  $\mu$ g/L for ethylbenzene and 67.1  $\mu$ g/L for xylenes, well below their RRS.

In the western portion of the site, VOC concentrations in MW-1 have remained relatively stable since 2001, though recent concentrations are lower than the historic highs. VOC concentrations in MW-6 were lower than the previous event, with only one constituent (TCE) detected at the reporting limit of 1  $\mu$ g/L. VOC concentrations in MW-7 have decreased significantly since 2002 and are currently below applicable RRS. VOC concentrations in MW-16 remained generally consistent with results from the previous sampling event and significantly lower than the June 2014 results. Low concentrations of cis-1,2-DCE and TCE have been detected in MW-9 at concentrations well below the applicable RRS.

In the southern portion of the site, VOCs have not been detected in MW-5 since sampling began in 2002. Only very low concentrations of cis-1,2-DCE and TCE have been detected in MW-14, well below the applicable RRS. MW-15, a shallow well located adjacent to MW-14, exhibited both cis-1,2-DCE and TCE with TCE exceeding its RRS.

In the eastern portion of the site, VOC concentrations were typically very low and were generally consistent with the December 2014 testing results with the exception of MW-17, which exhibited a significantly decreased concentration of TCE, while cis-1,2-DCE and vinyl chloride concentrations increased slightly in the most recent sampling event (June 2015). Most VOC concentrations in MW-2 remained consistent, with the exception that both cis-1,2-DCE and TCE concentrations increased to levels comparable to those observed in June 2014. TCE and toluene were detected just above their reporting limits in MW-3. VOCs have not been detected above RRS in MW-10 or MW-11 since monitoring began in these wells in 2001. VOCs were not detected in MW-20 located in the north-central portion of the site.

#### 6.5.2 Pesticides

Pesticide concentrations in groundwater have been monitored since 2009. Since that time, the pesticide concentrations have remained relatively consistent, with some constituent concentrations slightly higher and others slightly lower than during the previous event. No large scale (order of magnitude) variations in pesticide concentrations were observed.

The highest pesticide concentrations in soil were found inside the building and these soils were removed in 2013. Several pesticides have been detected in MW-19 in the interior excavation area with only endrin ketone and dieldrin exceeded applicable RRS. In the area immediately south of the building, pesticide concentrations were generally low, with slight RRS exceedances for endrin ketone (MW-13, MW-18 and PZ-2) and beta BHC (MW-13). Pesticides have not been detected in MW-4 (the deep well) since monitoring began in 2002.

In the western portion of the site pesticides have not been detected in recent sampling events in MW-6 and MW-7. Endrin ketone has been detected just above its RRS in MW-1. Other pesticides detected in MW-1 include alpha-BHC, beta-BHC and dieldrin, all at concentrations below their respective RRS. Pesticides have also been detected in MW-16 and MW-9. Only beta-BHC and Delta BHC have exceeded RRS in these two wells.

Pesticides have been detected at low levels in MW-2, MW-11, MW-12 and MW-17 in the eastern portion of the site. RRS exceedances have been observed for alpha-BHC, delta-BHC and endrin ketone.

Pesticides have not been detected in MW-5, MW-14 or MW-15, located in the southern and southeastern portions of the site since monitoring began. Likewise, they have not been detected in MW-10 or MW-3 in the northeastern portion of the site or in MW-20 in the north-central portion of the site.

#### 7.0 SOIL VAPOR SAMPLING AND TESTING

In response to EPD's April 2018 comment letter, on August 9, 2018, soil vapor sampling points were installed in five locations (SS-1 through SS-5) within the building. Each soil vapor sampling point was installed in a hole drilled to a depth slightly below the floor slab. The sampling tube was installed and backfilled with sand around the tube inlet, then sealed to the surface with hydrated bentonite. After equilibration overnight, the sampling points were helium tested to check for short circuiting and soil vapor samples collected using Summa canisters. The Summa canisters were submitted to H&P Mobile Geochemistry, Inc. and tested for the presence of VOCs (EPA Method TO-15). At that time, paired radon samples were also collected at two locations (SS-1 and SS-5) from beneath the slab and within the indoor air using Tedlar bags. The Tedlar bags were submitted to the University of Southern California for radon analysis via scintillation cell counting.

The soil vapor testing results are summarized on the attached Table 9 and on Figure 13. The vapor testing identified a variety of VOCs in each sample, including petroleum constituents, refrigerants, and chlorinated solvents. The VOCs detected on site include 1,1-dichloroethane, 1,1,1-trichloroethane, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, 2-butanone, 2-hexanone, 4-ethyltoluene, 4-methyl-2-pentanone, benzene, chloroform, ethylbenzene, tetrachloroethene, toluene, trichloroethene, cis-1,2-dichloroethene, vinyl chloride and xylenes. Sample SS-2 was the only sample collected that contained any VOCs at concentrations that exceeded applicable commercial sub-slab screening values. Trichloroethene was detected at 520 ug/m³ in SS-2, which exceeded the commercial screening value of 292 ug/m³.

The purpose of the radon testing was to measure sub-slab and indoor air radon concentrations to allow the calculation of a site-specific attenuation factor for incorporation into the vapor intrusion modelling included in Appendix G. The floor slab in the two areas tested appeared to be in good condition and varied slightly in thickness from approximately six inches at SS-1 to five inches at SS-5. The calculated attenuation factors for the two locations were  $9.9 \times 10^{-5}$  and  $6.7 \times 10^{-5}$ , respectively.

See Appendix G for more detailed discussion regarding the soil vapor testing and vapor intrusion modelling results.

## 8.0 DESCRIPTION OF RESPONSIBLE PERSON FOR THE CONTAMINATION DETECTED AT THE PROPERTY

During the course of the various assessments conducted at the site, the extent of soil contamination and the groundwater contamination plume have been delineated within the property boundaries but not necessarily within the HSI site boundaries. Based on the available data, it is apparent that the VOC and pesticide contamination in soil and groundwater at the site is the result of releases within the southern portion of the building and outside the southern building entrance. The groundwater plume emanating from these areas has been mapped as migrating generally to the north, consistent with shallow groundwater flow. Low levels of VOCs constituents were previously detected off site, across Davis Road and pesticides have been detected in groundwater along the site's eastern boundary. Therefore, it is apparent that historical on-site industrial operations have contributed to the contamination detected at the property.

Following is a summary of information currently known about the three separate industrial entities that have operated on the site addressed at 370 Mills Road, Waynesboro, Georgia.

Late 1950s – 1971: Atlas Chemical Company

Mr. Fuchs, Owner

Last known residence, Charleston, SC Formulation of agricultural pesticides

1971 – December 1988: Legion Utensil Company

Mr. Charles Scavullo, CEO and Shareholder

Last known residence: 2709 McDowell Street Augusta, GA 30904

Manufacture of commercial grade kitchen equipment, used

chlorinated solvents during full period of operation

December 1998- Present: Legion Industries, Inc.

Mr. Charles A. Brown, President, CEO, Chairman

373 Huntsville Road

Dallas, Pennsylvania 18612

(570) 574-3362

Continued the manufacture of commercial kitchen equipment, terminated use of regulated chlorinated solvents circa 1992

The former owners/operators of the facility should also be considered responsible parties. Atlas Chemical Company reportedly operated on the property from the late 1950s until the property was purchased by Legion Utensil Company (LUC) in 1970. Atlas Chemical Company was a pesticide manufacturing facility and was reportedly involved in the production of DDT and presumably, other pesticides. According to a memo prepared by Mr. Scavullo, the LUC CEO/owner, Atlas stored the pesticides loose on the floor and on the ground outside the building.

After LUC took ownership of the property, they expanded the building southward in the early 1970s for a distance of approximately 25 feet, which covered the area where Atlas had reportedly stored their materials on the ground. Atlas Chemical is no longer present in Waynesboro and it is not known if the company still exists. Because neither LUC nor Legion Industries was ever involved in the formulation, packaging or storage of pesticides at the subject site, Atlas Chemical Company operations are considered solely responsible for the pesticide impacts identified at the site.

In 1970, the facility was purchased by Legion Utensil Company, the CEO of which was Mr. Charles Scavullo. Legion Utensil Company operated at the site until the late 1980s when it was purchased by Mr. Brown operating as Legion Industries, Inc. in 1988. The facility operations and materials used by Legion Industries were similar in nature to those employed by Legion Utensil Company. Legion Industries did discontinue the use of TCE in its process and filled in the degreaser pit with concrete a few years after taking over operation of the facility.

# 9.0 ACTIONS TAKEN TO ELIMINATE, CONTROL, OR MINIMIZE ANY POTENTIAL RISK AT THE SITE

Current facility operations no longer involve the use or production of the regulated constituents that have been detected on site in excess of their applicable RRS. Pesticide formulation ceased on site in the early 1970s and the use of solvent-based degreasing operations was discontinued in the early 1990s. Therefore, the potential for additional release of a regulated substance has been negligible for many years.

Remediation at the site was performed to address soil impacts related to previous site operations. Impacted soils from three areas within and immediately south of the building were excavated and disposed of in June 2013 as summarized below (described in more detail in the 2nd Semi-Annual Progress Report, dated July 24, 2013) and an amendment was applied to the interior excavation to degrade constituents in the underlying groundwater regime.

Amec Foster Wheeler coordinated and scheduled all planned activities with plant personnel so that soil removal work could be performed with limited impact to plant operations. In order to provide access to the interior excavation area, it was necessary to move a significant amount of materials and equipment, including a toggle press, out of the interior work area. Several trash and scrap metal containers were moved prior to the commencement of exterior soil excavation activities.

Previous soil leachability testing of both interior and exterior soil samples demonstrated the impacted soil was characteristically non-hazardous. Based on submittal of a waste profile signed by Legion Industries, approval was obtained from a permitted Subtitle D landfill (Augusta Deans Bridge Road Landfill) for disposal of impacted soils as non-hazardous waste.

Amec Foster Wheeler mobilized the required personnel and equipment during the week of June 17, 2013. Due to the disruption to normal work procedures in the soil removal area, plant operations were shut down shortly after soil removal activities began.

## 9.1 PRE-EXCAVATION CONFIRMATION SAMPLING AND TESTING

Limited additional soil sampling was necessary to supplement previous test results and to provide the confirmation data spacing specified in the VRP application. The additional confirmation samples were collected to complete the delineation of the areas requiring excavation and to ensure that adequate confirmation sampling frequency (every 25 feet along excavation perimeters) had been achieved. On June 17, 2013, 11 soil confirmation samples (CS-1 through CS-7 and CS-10 through CS-13) were collected from the area of the exterior excavations and two samples (CS-8 and CS-9) were collected from the area of the interior excavation. The samples were collected using a decontaminated hand auger and were submitted to Analytical Environmental Services, Inc. in Atlanta, Georgia for testing on a 24-hour basis. The exterior delineation/confirmation samples were tested for TCE only as it was the only constituent that had been detected outside the building above its RRS. The interior samples were tested for both VOCs and pesticides as multiple constituents from each of these analyte suites had been identified in excess of applicable RRS in the area around the former degreaser pit, which was also the area of

former pesticide drum storage. The soil confirmation data is summarized on Figures 11 and 12. Note that two of the interior samples (GP-15 and GP-17) were not tested for both VOCs and pesticides. GP-10, located inboard of GP-15, demonstrated compliance with VOCs while GP-12, located inboard of GP-17, demonstrated compliance with pesticides. Therefore, those constituents were not included in the analyses of the outermost samples.

Several of the samples collected during the June 2013 sampling event were located outside of the anticipated excavation area and were held by the laboratory in the event that certain of the initial samples did not meet the applicable RRS. The results of the confirmation sampling indicated that exterior samples CS-3, CS-4 and CS-5 exceeded RRS for TCE and interior sample CS-9 exceeded the RRS for dieldrin and toxaphene. Based on these results, exterior samples CS-10, CS-11 and CS-12 were analyzed and another interior sample, CS-9A, was collected. Of these, only CS-10 still exceeded a RRS. Additional samples were collected south of CS-10. The next sample, CS-14 2′, met the applicable RRS, thereby completing the confirmation sampling.

The results of the confirmation testing are presented in Tables 4, 5 and 6 and on Figures 11 and 12. Complete laboratory reports are documented in Appendix A.

#### 9.2 SOIL REMOVAL

Excavation of impacted soils began on June 18, 2013 and was completed on June 28, 2013 by Amec Foster Wheeler.

Inside the building, an irregularly shaped section of the concrete floor measuring roughly 50 feet by 60 feet was marked with spray paint and broken out using a concrete breaker. The northwest portion of this excavation butted up against the pit located beneath the clearing press while the eastern portion extended to the footing of the eastern exterior wall of the building. The pit was a concrete structure that extended approximately 8 feet below the water table. The broken slab concrete was removed and disposed of along with the impacted soil.

The soil inside the building was excavated to a depth of approximately 4.5 feet where groundwater was encountered. This excavation was extended laterally to the previous sample locations where soil concentrations were documented to be below applicable RRS. The soil was removed from the building using a backhoe and skid steer loader and transferred to the stockpile location south of the building.

The interior excavation also encountered a large mass of concrete, approximately three feet thick that filled the former degreaser pit. This concrete was broken up and disposed of along with the excavated soil. Another subsurface concrete slab was identified in the southern portion of the excavation at a depth approximately 2 feet below the floor level. This slab measured approximately 10 feet by 25 feet and was also broken up and removed for disposal. The total amount of soil and concrete removed from the interior excavation is estimated to be approximately 700 tons.

The limits of the exterior excavations were marked on the ground with spray paint by connecting the confirmation sample locations. The exterior excavations were slightly larger than the 30 x 30 foot areas originally estimated and included some concrete associated with a walkway and a driveway. The bulk of the exterior excavation areas were unpaved. Soils in the exterior excavations

were removed to a depth of approximately 2.5 feet below grade, at which point the water table was encountered. A total of approximately 130 tons of soil and concrete were removed from the western exterior excavation and approximately 150 tons of soil and concrete were removed from the eastern exterior excavation. No subsurface structures or other obstructions were encountered in the exterior excavations.

All excavated material was placed in a stockpile located south of the building. The stockpile was constructed on 6 mil polyethylene sheeting and covered daily with polyethylene sheeting.

#### 9.3 AMENDMENT APPLICATION

At the recommendation of EPD in a letter dated May 20, 2013, prior to placing any backfill material in the interior excavation area, Amec Foster Wheeler amended the exposed soil using an oxygen releasing compound (ORC). A pelletized version of ORC designed specifically for direct application into excavations was used. This pelletized, dry application material was selected as it minimizes airborne dust while eliminating the need for specialized equipment. The primary function of the ORC pellets is to provide a controlled-release oxygen source for the enhanced aerobic bioremediation of aerobically degradable compounds. Approximately 1,000 pounds of the ORC pellets were spread over the base of the interior excavation at the water table elevation prior to backfilling the excavation.

## 9.4 TRANSPORTATION AND DISPOSAL

The soil had been previously analyzed for disposal and was characterized as non-hazardous. The excavated soil was stockpiled in the southern portion of the site until a sufficient quantity had accumulated, at which point the transporter was called to remove the accumulated material. Soils were loaded from the stockpile into end dump trucks using an excavator. Dry decontamination procedures, consisting of the use of brooms and other hand tools were used on vehicles and equipment, as necessary before they left the site.

A total of 979.9 tons of material (soil and concrete) were removed from the site and transported to the Augusta Deans Bridge Road Landfill in Augusta, Richmond County, Georgia. Disposal manifests are attached in Appendix J.

## 9.5 BACKFILLING AND GRADING

Following soil removal, the interior excavation was backfilled with No. 57 stone and topped with graded aggregate to sub-grade elevation. The floor area was then restored by installing a new concrete pad. The exterior excavations were backfilled with No. 57 stone, topped with an approximate six-inch layer of compacted graded aggregate and leveled to match the surrounding grade.

## 10.0 RISK REDUCTION STANDARDS

The subject site is located in Waynesboro, Georgia in an area of industrial properties. The subject site is zoned for industrial use and, is classified as "non-residential" property as defined under HSRA.

As discussed in Section 4.2, HSRA-regulated substances were detected in soil and groundwater samples obtained during various assessments conducted by Amec Foster Wheeler. Therefore, risk reduction standards (RRS) were calculated for these substances in accordance with the HSRA Rules and are summarized below. See Appendix C for complete RRS calculations.

#### 10.1 SOIL CRITERIA

A total of 28 HSRA-regulated constituents were detected in soil during Amec Foster Wheeler's assessments. Type 1-4 RRS for all constituents detected in soil on site are presented below in Table 9-1 along with the highest concentration of each constituent remaining in soil on site after remediation.

**TABLE 10-1 - RISK REDUCTION STANDARDS FOR SOIL** 

	Highest Remaining		Non-Re	sidential
Regulated Substance	Concentration, mg/kg	Location	Type 3 RRS Criteria, mg/kg	Type 4 RRS Criteria, mg/kg
Metals				
Barium	34.7	SS-7-3′	1,000	17,000
Chromium	29.6	PDL-3-3'	1,200	38
Lead	9.75	SS-7-3′	400	270
VOCs				
1,4-dichlorobenzene	0.011	SS-10-3"	7.5	1.0
Chlorobenzene	0.038	SS-10-3'	10	0.78
Cis-1,2-dichloroethene	0.014	SS-16-2-2.5'	7.0	6.0
Ethylbenzene	0.007	DP-2-3'*	70	16
Isopropylbenzene	BRL	NA	22	33
Tetrachloroethene	BRL	NA	0.5	0.045
Toluene	BRL	NA	100	72
Trichloroethene	0.16	SS-16-2-2.5'	0.50	0.27
Vinyl Chloride	0.029	DP-7-2-2.5'	0.20	0.014
Xylenes	0.021	GP-17-2-2.5'	1,000	200
Pesticides				
4,4-DDD	4.6	SS-10-3'	0.66	56.0
4,4'-DDE	0.22	SS-10-3'	0.66	40.0
4,4'-DDT	6.6	SS-10-3'	0.66	57.0
Aldrin	0.12	SS-10-3'	0.66	0.55
Alpha-BHC	0.15	DP-7-2-2.5'	0.66	0.053
Beta-BHC	0.03	SS-10-3'	0.66	0.19
Delta-BHC	0.041	SS-10-3'	0.005	0.19
Gamma-BHC	0.55	GP-12	0.66	0.30
Chlordane	7.6	DP-3-3'	9.2	11.0
Dieldrin	0.22	SS-10-3'	0.66	0.14
Endrin	0.011	SS-11-3'	10.0	25.0
Endrin Ketone	0.033	SS-11-3'	10.0	0.081
Heptachlor	0.0024	SS-11-3'	0.66	1.1
Heptachlor Epoxide	0.012	SS-11-3'	1.7	0.13
Toxaphene	3.7	SS-17-0.5-1'	11.0	15.0

mg/kg - milligrams per kilogram (equivalent to parts per million)

Note: All soil concentrations remaining after soil remediation are below Type 3 or 4 RRS or both.

Based on the soil testing data collected to date and following the soil remediation measures described in Section 8.0, the subject site is currently in compliance with applicable non-residential RRS for regulated constituents in soil.

# 10.2 GROUNDWATER CRITERIA

Type 1-4 RRS for all constituents detected in groundwater on site are presented below in Table 9-2. HSRA RRS criteria for groundwater for the detected constituents are shown compared to their highest concentrations detected on site.

TABLE 10-2 – RISK REDUCTION STANDARDS FOR GROUNDWATER SHALLOW ZONE

	Historically		Most Recent		Resi	dential	Non-Re	sidential
Regulated Substance	Highest Concentration Detected µg/L	Location	Highest Concentration Detected µg/L (June 2015)	Location	Type 1 RRS Criteria, µg/L	Type 2 RRS Criteria, μg/L	Type 3 RRS Criteria, μg/L	Type 4 RRS Criteria, μg/L
VOCs				-				-
1,2-dichlorobenzene	12	MW-13	<50	MW-13	600	110	600	548
1,3-dichlorobenzene	BRL	NA	BRL	NA	600	110	600	548
1,4-dichlorobenzene	56	MW-13	56	MW-13	75	5.7	75	7.3
1,1-dichloroethane	19	MW-13	<50	MW-13	4,000	25.3	4,000	46.4
1,1-dichloroethene	11	MW-13	<50	MW-13	7.0	103	7.0	523
1,2,4-trichlorobenzene	51	MW-13	<50	MW-13	70	1.18	70	5.79
1,1,2-trichloroethane	BRL	NA	BRL	NA	5	0.12	5	0.58
Benzene	14.6	MW-13	<50	MW-13	5.0	4.48	5.0	8.8
Chlorobenzene	65	MW-13	<50	MW-13	100	27	100	130
Cis-1,2-dichloroethene	2,900	MW-13	1,030	MW-13	70	31	70	204
Ethylbenzene	2,330	MW-19	<25	MW-19	700	15	700	29
Isopropylbenzene	7.3	MW-13	<50	MW-13	5.0	200	5.0	1,000
Methylene Chloride	5.4	MW-13	<100	MW-13	5.0	74	5.0	450
Naphthalene	63.8	MW-19	<25	MW-19	20	2.4	20	1.4
Trans-1,2-dichloroethene	32.4	MW-13	<50	MW-13	100	310	100	2,000
Trichloroethene	8,200	MW-13	2,580	MW-13	5.0	1.0	5.0	5.2
Vinyl Chloride	3,300	MW-13	680	MW-19	2.0	1.1	2.0	3.3
Xylenes	10,900	MW-19	67.1	MW-19	10,000	59	10,000	290
Pesticides								
4,4-DDD	7.4	MW-19	2.1	MW-19	0.1	3.5	0.1	12
4,4'-DDT	8.4	MW-13	4.0	MW-13	0.1	2.5	0.1	8.4
Alpha-BHC	4.0	MW-19	<1.2	MW-11	0.05	0.14	0.05	0.45
Beta-BHC	4.9	MW-19	4.4	MW-13	0.05	4.7	0.05	16
Delta-BHC	8.3	MW-19	5.4	MW-16	0.05	0.47	0.05	1.6
Gamma-BHC	4.4	MW-19	1.5	MW-13	0.2	0.77	0.2	2.6
Chlordane	BRL	NA	BRL	NA	2.0	2.4	2.0	8.2
Dieldrin	7.9	MW-19	7.9	MW-19	0.1	0.053	0.1	0.18
Endrin	8.0	MW-13	5.4	MW-19	2.0	4.7	2.0	31
Endrin Ketone	6.2	MW-19	6.2	MW-19	0.1	0.1	0.1	ND
Toxaphene	44.0	MW-13	<4.0	MW-13	3.0	0.77	3.0	2.6

 $\mu g/L$  - micrograms per liter (equivalent to parts per billion)

Note: Shaded values exceed Type 1-4 RRS

TABLE 10-3 - RISK REDUCTION STANDARDS FOR GROUNDWATER INTERMEDIATE DEPTH ZONE

	Historically		Most Recent		Resi	dential	Non-Re	sidential
Regulated Substance	Highest Concentration Detected µg/L	Location	Highest Concentration Detected µg/L (June 2015)	Location	Type 1 RRS Criteria, µg/L	Type 2 RRS Criteria, μg/L	Type 3 RRS Criteria, µg/L	Type 4 RRS Criteria, µg/L
VOCs								
1,2-dichlorobenzene	3.2	MW-18	<50	MW-18	600	110	600	548
1,3-dichlorobenzene	1.0	MW-18	<50	MW-18	600	110	600	548
1,4-dichlorobenzene	11.5	MW-18	<50	MW-2	75	5.7	75	7.3
1,1-dichloroethane	4.0	MW-18	<50	MW-18	4,000	25.3	4,000	46.4
1,1-dichloroethene	14	PZ-2	<250	PZ-2	7.0	103	7.0	523
1,2,4-trichlorobenzene	7.7	MW-18	<50	MW-18	70	1.18	70	5.79
1,1,2-trichloroethane	21	PZ-2	<100	PZ-2	5	0.12	5	0.58
Benzene	4.1	MW-18	3.5	MW-12	5.0	4.48	5.0	8.8
Chlorobenzene	15.4	MW-18	12.3	MW-2	100	27	100	130
Cis-1,2-dichloroethene	20,000	PZ-2	7,280	PZ-2	70	31	70	204
Ethylbenzene	2.5	MW-2	2.3	MW-2	700	15	700	29
Isopropylbenzene	BRL	NA	BRL	NA	5.0	200	5.0	1,000
Methylene Chloride	592	PZ-2	592	PZ-2	5.0	74	5.0	450
Naphthalene	10.5	MW-2	5.5	MW-2	20	2.4	20	1.4
Trans-1,2-dichloroethene	80.3	PZ-2	<250	PZ-2	100	310	100	2,000
Trichloroethene	57,000	PZ-2	46,300	PZ-2	5.0	1.0	5.0	5.2
Vinyl Chloride	6,800	PZ-2	1,620	PZ-2	2.0	1.1	2.0	3.3
Xylenes	18	MW-2	7.8	MW-2	10,000	59	10,000	290
Pesticides						T		
4,4-DDD	2.2	PZ-2	0.12	PZ-2	0.1	3.5	0.1	12
4,4'-DDT	0.55	PZ-2	<0.05	PZ-2	0.1	2.5	0.1	8.4
Alpha-BHC	7.3	MW-2	6.5	MW-2	0.05	0.14	0.05	0.45
Beta-BHC	1.5	MW-2	<0.37	PZ-2	0.05	4.7	0.05	16
Delta-BHC	9.0	MW-2	9.0	MW-2	0.05	0.47	0.05	1.6
Gamma-BHC	2.5	MW-2	2.3	MW-2	0.2	0.77	0.2	2.6
Chlordane	2.22	MW-2	0.23	MW-18	2.0	2.4	2.0	8.2
Dieldrin	1.8	MW-2	0.15	PZ-2	0.1	0.053	0.1	0.18
Endrin	1.2	MW-18	<0.05	MW-18	2.0	4.7	2.0	31
Endrin Ketone	1.8	MW-18	0.51	PZ-2	0.1	0.1	0.1	ND
Toxaphene	2.6	MW-18	2.6	MW-18	3.0	0.77	3.0	2.6

 $\mu g/L$  - micrograms per liter (equivalent to parts per billion)

Note: Shaded values exceed Type 1-4 RRS

Based on the groundwater testing data available to Amec Foster Wheeler and presented herein, groundwater in the shallow aquifer zone at the site does not currently comply with Type 1, 2, 3 or 4 groundwater RRS for the following constituents: benzene, cis-1,2-DCE, trichloroethene, vinyl chloride, Alpha-BHC, Beta-BHC, Delta-BHC, Gamma BHC, dieldrin, and endrin ketone. Groundwater in the intermediate aquifer zone does not comply with Type 1,2,3 or 4 groundwater RRS for cis-1,2-DCE, methylene chloride, trichloroethene, vinyl chloride, Alpha-BHC, Delta-BHC, dieldrin and endrin ketone.

## 11.0 **EXPOSURE PATHWAYS**

The risk to human health and the environmental is directly related to the potential for receptors to be exposed to contamination. Exposure pathways are the means by which regulated substances migrate from a source to a point of contact with humans and/or the environment. An examination of the following potential exposure pathways and receptors was conducted for the site.

- Potential exposure to regulated constituents in soil;
- Potential exposure to regulated constituents in groundwater;
- Potential exposure to regulated constituents in surface water;
- Potential exposure to regulated constituents due to vapor intrusion from impacted soil or groundwater.

## 11.1 SOIL CRITERIA

The potential for direct exposure of commercial workers to impacted soil at the site is incomplete as soil concentrations are below the approved direct exposure risk reduction standards for construction workers and utility workers in the event that ground-disturbing activities are performed in the future.

Type 1, 2, 3 and 4 RRS were calculated for constituents detected in soil using default exposure assumptions. The site satisfies RRS criteria calculated for potential exposure to soil for all COCs detected on site. The HSRA Type 1 through Type 4 RRS criteria for soil for the regulated substances are shown in Table 9-1 along with the highest remaining concentration detected and the corresponding sample location.

On the basis of the site's compliance with non-residential RRS for soil at a minimum, and in conjunction with the industrial zoning designation for the site, the site is currently in compliance with non-residential RRS and the soil exposure pathway is no longer complete. In addition, Legion Industries, Inc. will file an Environmental Covenant restricting use of the site to non-residential purposes.

#### 11.2 GROUNDWATER CRITERIA

A water usage survey was conducted for the area surrounding the site to identify active drinking water sources in the site vicinity (see Appendix E). In summary, no domestic drinking water wells were identified within one mile of the site. Two public supply wells were identified in the general site vicinity. One well is located just under a mile southwest of the site while the second is approximately 1.15 miles to the northwest. Neither supply well is located within the documented flow path downgradient from the site. The general groundwater flow in this area is northward toward Brier Creek, approximately 2.75 miles north of the site. A surface water intake is also located on Brier Creek northeast of the site, approximately three miles downstream of the point where shallow groundwater from the site would discharge to the creek, resulting in a total flow path of over five miles from the site to the intake location. Based on this research and delineation

of the groundwater contamination discussed in Section 6.0, no drinking water sources have been identified which would be impacted by the release from the site.

Groundwater contaminant fate and transport modeling results (Appendix D) indicate the shallow plume migration (northward) will likely remain within the site boundaries over the long term. Intermediate depth plume migration (northeastward) is predicted to extend off site to the northeast. The maximum extent of the intermediate depth plume is predicted to extend approximately 1,400 feet 50 years in the future.

In order to evaluate the risk that regulated constituents in groundwater could impact a potential receptor within 1,000 feet of the downgradient extent of the plume and to estimate the time required to achieve compliance with applicable RRS, Amec Foster Wheeler applied the BIOCHLOR software to the release of CVOCs in groundwater on site. CVOCs are what the program is designed to address and CVOCs represent the most mobile components of the VOC plume and substantially more mobile than pesticides. Because the extent of pesticides is more restricted, despite their earlier release, which confirms they are less mobile in the subsurface environment, they have not been modeled.

BIOCHLOR utilizes a combination of site specific data and literature values to determine the various physical properties of the plume and the migration potential of chlorinated VOC constituents. The purpose of the modeling is to predict the migration pattern of a chlorinated solvent plume where no engineering controls have been implemented and monitored natural attenuation (MNA) is the groundwater remedial option.

As first documented in the 3rd Semi-Annual Progress Report, the initial release of CVOCs to groundwater has been assumed to have occurred approximately 40 to 45 years ago when the kitchen ware manufacturing operation began in 1971. This time frame appears to be reasonable based on the calibration of actual conditions with model results. CVOCs are no longer utilized on site and soils impacted above applicable RRS in the source areas have been removed. As such, the release going forward has been modelled as a decaying source.

Groundwater conditions in MW-13 represents the source location for the shallow aquifer zone and conditions in PZ-2 represent the source location for the intermediate depth aquifer because this is the most upgradient location of soil impact that required remediation. In each case the highest historic groundwater concentrations were utilized as the initial contaminant concentrations.

Groundwater conditions were evaluated in the source area as well as downgradient of this area using USEPA's Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Groundwater to confirm that conditions on site are favorable for biotransformation. Groundwater conditions from MW-13, MW-18, MW-19 and MW-2 were evaluated and the score sheets are included in Appendix D. Note that limited data regarding natural attenuation parameters were available for inclusion in the scoring sheets. TCE was known to be the CVOC previously utilized on site as a degreaser and significant concentrations of the TCE degradation products cis-1,2-DCE and vinyl chloride have been detected in groundwater since the earliest assessments conducted on site in 2001. We note that the DCE detected on site consists almost entirely of cis-1,2-DCE, which indicates that it is most likely the daughter product of TCE. As such, it was readily apparent that

degradation of TCE has been occurring since at least 2001. Nevertheless, the scoring protocol indicates at least limited evidence for anaerobic biodegradation at each location examined. Based primarily on the distribution of CVOCs in groundwater and the presence of significant concentrations of TCE daughter products, it is reasonable to conclude that the subsurface conditions on site are very favorable for biotransformation of CVOCs.

The Biochlor model was initially developed for the 3rd Semi-Annual Monitoring Report by inputting measured parameters such as hydraulic conductivity, hydraulic gradient, soil organic carbon content, and groundwater VOC concentrations within the source area. It has been fine-tuned using data obtained during subsequent monitoring periods.

As illustrated on the attached updated outputs from the BIOCHLOR model, the model predicts CVOC concentrations in groundwater after approximately 48 years (i.e. now) that closely match conditions currently observed in wells downgradient of the shallow and intermediate depth source area wells MW-13 and PZ-2. The modeling runs were extended for 100 years after the estimated initial release date to evaluate the point at which the maximum lateral extent of the plume was achieved. The results of the modeling indicate that the downgradient extent of the shallow plume will not migrate beyond Legion Industries' northern property boundary at concentrations in excess of applicable RRS. The intermediate depth plume may slightly exceed the RRS for vinyl chloride at the eastern property boundary, but is not predicted to exceed the RRS at a distance of greater than 500 feet from the source area. The predicted maximum extent of the shallow and intermediate depth plumes are illustrated on Figure D-1 which also illustrates the locations of the wells and surface water intake in the site vicinity and demonstrates the significant distances between the plume and area receptors.

RRS were calculated for the constituents detected in groundwater on site. Again the Type 1, 2, 3 and 4 RRS criteria were derived using site default exposure assumptions (Tables C-2 and C-3 in Appendix C). Based on the groundwater results, neither the shallow nor the intermediate aquifer zones on site currently comply with the Type 1-4 groundwater RRS for at least one or more pesticides or VOCs. Although groundwater conditions are not currently in compliance with applicable Type 1-4 RRS, there is no use of groundwater for drinking on site or in the surrounding area and the risk to human health and the environment posed by the groundwater on site is negligible.

The site will comply with Type 5 RRS upon filing of an Environmental Covenant by Legion Industries, Inc. that restricts the use of groundwater as an institutional control. Further, the condition of the groundwater on site is expected to improve over time due to the natural attenuation of regulated constituents as observed in on-site wells in recent sampling events.

Groundwater monitoring over a period of 18 years from 2001 to 2018, along with groundwater fate and transport modeling, have demonstrated the groundwater conditions will not exceed Georgia in-stream water quality standards or drinking water standards within 1,000 feet downgradient of the current extent of impacts (Appendix D). The area in the flow path downgradient of the shallow plume is undeveloped and occupied by a multi-lane highway. The property in the flow path of the intermediate plume is also zoned industrial and is occupied by a

manufacturing warehouse facility served by the municipal water supply. As such, the site is in compliance with appropriate groundwater criteria under the VRP.

For these reasons, the groundwater exposure pathway is incomplete. Also, the proposed filing of an Environmental Covenant will restrict the use of groundwater on the site.

#### 11.3 SOURCE

Concentrations of dissolved VOCs in groundwater are all well below the aqueous solubilities for the various compounds detected on site. Evidence of saturated soils indicative of a potential free product condition has never been observed and impacted soils from the source area have been removed. The concentrations of PCE detected in groundwater from PZ-2 historically have been in excess of 1%, but below 4.5%, of the aqueous solubility of TCE during some of the monitoring events. However, no direct indications of a dense non-aqueous phase liquid (DNAPL) condition have been observed during installation or sampling of the numerous borings and wells on the subject site.

## 11.4 SURFACE WATER

Surface water testing conducted on samples collected from the drainage ditch along the Waynesboro Bypass did not detect COCs. Further, as detailed in the Semi-Annual VRP Progress Reports, groundwater fate and transport modelling indicates that COCs are not predicted to reach Brier Creek, the nearest perennial stream.

Based on the detected concentrations of COCs dissolved in groundwater at the site, the results of the analytical groundwater fate and transport model for the VOCs in question and the results of the testing of the only surface water in the nearby site vicinity, in-stream water quality standards are not exceeded currently, and are not predicted to be exceeded in the future. Therefore, the surface water exposure pathway is incomplete.

#### 11.5 VAPOR INTRUSION

In 2015, a screening level vapor intrusion risk evaluation was performed for the site. The purpose of the vapor intrusion (VI) risk evaluation was to evaluate the potential for volatile organic compounds (VOCs) detected in shallow groundwater to intrude into indoor air inside current or future buildings at the site. In order to assess whether groundwater concentrations of constituents of potential concern ethylbenzene, TCE, vinyl chloride, and xylenes potentially posed unacceptable indoor air risk or hazards to site commercial workers, an evaluation was performed for these constituents using USEPA's Johnson and Ettinger Model for Subsurface Vapor Intrusion into Buildings (J&E Model; USEPA, 2004). The results of the groundwater VI evaluation estimated total incremental cancer risk at 4 x  $10^{-6}$ , which is less than the HSRA target cancer risk of 1 x  $10^{-5}$ . The cumulative hazard index for the commercial scenario was 0.7, which is less than the HSRA target hazard index of 1. The risks and hazards calculated using the older version of the J&E Model indicate low potential for adverse health effects to commercial workers from VOCs in site groundwater migrating from the subsurface into indoor air.

As part of this Revised CSR, vapor intrusion was evaluated using measured concentrations of subslab soil gas. The purpose of this 2018 vapor intrusion risk evaluation is to evaluate the potential

for VOCs detected in sub-slab soil gas to intrude into indoor air inside current buildings at the site. Five sub-slab soil gas samples (SS-1 through SS-5) were collected at a depth just below the floor slab within the building and analyzed by the TOC-15 method in August 2018. Samples were taken at a shallow depth because the water table is within four feet of the ground surface. Eighteen VOCs and one radionuclide (radon) were detected in sub-slab soil gas. Results are listed in Table 8 and Table G-1. The maximum detected concentrations for VOCs were compared to U.S. Environmental Protection Agency's (USEPA) sub-slab soil gas vapor intrusion screening levels (VISLs; USEPA, 2018) to ensure that indoor air constituents of potential concern are identified. These comparisons are shown in Table G-1.

For the calculation of the sub-slab soil gas VISLs, a site-specific groundwater temperature of 22.8 degrees Celsius was used, based on well purging data. A commercial exposure scenario was assumed in the VISL calculations using a target cancer risk of  $10^{-5}$  with a target hazard index of 1 as designated under HSRA rules. The highest detected sub-slab soil gas concentrations for detected VOCs were compared to their respective target sub-slab soil gas concentrations on Table G-1. For cis-1,2-dichloroethane and 4-ethyltoleune, VISLs could not be calculated because there are no published inhalation toxicity values for these compounds. Furthermore, for radon, there is no appropriate soil gas VISL. As such, the Occupational Safety and Health Administration (OSHA) permissible exposure limit (PEL) for radon of 100 picoCuries per liter (pCi/L) was divided by the default USEPA sub-slab soil gas to indoor air attenuation factor of 0.003 to derive a sub-slab soil gas screening level of 33,333 pCi/L for radon. Based on the ratio of indoor air radon to sub-slab soil gas radon, the site-specific attenuation factor appears to be much more significant and in the order of 0.000067 to 0.000099 (Table G-1).

Only a single VOC evaluated, TCE, exceeded its commercial sub-slab soil gas VISL. The maximum detected concentration of TCE was 520  $\mu$ g/m³ (location SS-2), which exceeded the commercial VISL of 292  $\mu$ g/m³ for this constituent. A TCE concentration of 200  $\mu$ g/m³ was detected at location SS-1, but the other three locations were non-detect (<5.5  $\mu$ g/m³). In order to assess whether concentrations of TCE potentially pose unacceptable indoor air risk or hazards to site commercial workers, an additional evaluation was performed for TCE using USEPA's Johnson and Ettinger Model for Subsurface Vapor Intrusion into Buildings (J&E Model; USEPA, 2017). The J&E Model was updated in 2017 to align with current VI guidance (USEPA, 2015). The J&E Model incorporates both default and site-specific exposure parameters and assumptions to calculate incremental cancer risks and hazards for a typical commercial exposure scenario.

The assumptions used in the J&E model are presented in Table G-2. The vapor intrusion scenario used in the J&E Model is based on building dimensions representative of the office spaces at the north end of the current manufacturing building (32.5 feet by 120 feet) and a ceiling height equivalent to the manufacturing area (16 feet). The soil type was modeled as sandy clay, and the depth to the sub-slab soil gas sampling point beneath the building was modeled as 1 foot based on site soil gas data. The J&E Model outputs are provided as an attachment, and a summary of the results are presented in Table G-3. Toxicity values for TCE are from USEPA's Integrated Risk Information System (IRIS) database. The air exchange rate was assumed to be 1.5 per hour, which is the average rate for large commercial buildings (USEPA, 2011). This is conservative for the Legion Industries facility as they reportedly operate with open overhead doors during fair weather.

Commercial receptors were assumed to be exposed for 250 days per year for 25 years (USEPA, 2014). Indoor air concentrations were estimated from sub-slab concentrations using dilution attenuation as calculated by the J&E Model.

For the commercial scenario, total incremental cancer risk was estimated at  $2 \times 10^{-6}$ , which is less than the HSRA target cancer risk of  $1 \times 10^{-5}$ . The cumulative hazard index for the commercial scenario is 0.2, which is less than the HSRA target hazard index of 1. The risks and hazards calculated using the J&E Model indicate low potential for adverse health effects to commercial workers from VOCs in sub-slab soil gas migrating from the subsurface into indoor air.

The 2018 soil gas VI evaluation confirms the conclusions of the 2015 groundwater VI evaluation in that risks and hazards estimated for commercial workers from VI exposures are within the acceptable range and are less than HSRA target goals for cumulative cancer risks and hazard indices.

A portion of the impacted groundwater plume in the intermediate depth aquifer zone is interpreted to underlie the nearby Synergy Group, LLC property east of the site. The Synergy Group facility has not been specifically evaluated for vapor intrusion potential, and they have refused Legion Industries access to their property (refer to the email attached in Appendix H). However, the Synergy Group facility is of similar construction to the Legion Industries facility and is subject to reduced influence from the plume as the Synergy Group building is located farther from the areas of highest groundwater impact. The Synergy Group facility is also situated at a higher elevation than the subject site with a corresponding greater depth to groundwater (approximately 13 feet between floor slab and water table versus approximately 4 feet on the subject site). In addition, the shallow groundwater plume is not predicted to extend onto the Synergy Group property as it migrates in a northerly direction. Only the intermediate depth plume appears to have the potential to eventually affect the area east of the subject site. The Synergy Group building is immediately underlain by unimpacted groundwater, thereby further reducing the potential for vapor intrusion from the groundwater plume. These factors lead to a reasonable conclusion that the potential for vapor intrusion into the Synergy Group facility exceeding a riskbased standard is negligible.

#### 12.0 **CONCLUSIONS**

Based on the findings of assessment activities and the results of corrective action, the following conclusions are presented:

- Source area soil remediation was conducted inside the building around the former degreaser pit and south of the building, in areas of identified soil impacts exceeding applicable RRS.
- Groundwater has been monitored at the site for 15 years. Based on data obtained since monitoring began in 2001, we note the following:
  - ➤ The plume has been delineated to the extent practicable to Type 1 RRS. The intermediate zone plume may currently minimally extend onto the Synergy Group, LLC property to the east and is predicted to migrate farther in the future. However, Synergy Group has denied access to conduct additional delineation and monitoring. Similarly, the plume extends a short distance across Davis Road and potentially onto the Helena Chemical Company property to the west at concentrations only slightly above the Type 1 RRS. Helena Chemical Company has also denied access;
  - > The plume has been observed to be generally stable, with the exception of some minor fluctuations;
  - VOC concentrations have generally decreased significantly from their historic maximums. Where evident, VOC increases are typically related to the production of TCE breakdown products;
  - Significant degradation of chlorinated VOCs is evident throughout the plume and it is reasonable to conclude from these observations and from modeling that natural attenuation is a viable remedial option for the VOC groundwater condition;
  - Pesticide concentrations have generally remained stable or have decreased;
  - No surface water impacts have been identified;
  - ➤ Limited plume migration is evident. The VOC release is believed to have begun approximately 45 years ago. However, the plume has migrated a limited distance since that time, extending only short distances onto nearby properties to the west and to the east and remaining on site to the north;
- Contaminant fate and transport modeling indicates the shallow plume migration (northward) will likely remain within the site boundaries over the long term. Intermediate depth plume migration (northeastward) will extend off site to the northeast. A maximum extent of the intermediate depth plume of approximately 1,400 feet is predicted 50 years in the future;
- A water usage survey conducted by Amec Foster Wheeler did not identify private drinking water sources within one mile of the site. Two public water supplies were identified in the general site vicinity, neither of which is located downgradient of the site. One well is located approximately 0.9 miles southwest of the site. A second well is located

approximately 1.15 miles northwest of the site. A surface water intake is located along Brier Creek, approximately 2.75 miles northeast of the site, well beyond the predicted maximum extent of the plume.

- Sub-slab soil gas testing confirms the conclusions of the 2015 groundwater vapor intrusion
  evaluation in that risks and hazards estimated for commercial workers from vapor intrusion
  exposures are within the acceptable range and are less than HSRA target goals for
  cumulative cancer risks and hazard indices.
- The subject site will be eligible for delisting from the HSI because it is in compliance with Type 4 RRS for soil and will be in compliance with Type 4 with controls risk reduction criteria for groundwater upon filing of the Environmental Covenant using institutional controls.

With the approval of this Revised CSR by EPD, Legion Industries, Inc. will submit a draft Environmental Covenant to EPD for review, comment and ultimate execution by both parties. Legion will also provide annual certification as to the continued non-residential usage of the subject site and Synergy Group, LLC properties and the lack of groundwater usage as a drinking water source on these two properties.

## References:

USEPA, 2004. User's Guide for Evaluating Subsurface Vapor Intrusion into Buildings, Office of Emergency and Remedial Response, February 2004.

USEPA, 2011. Exposure Factors Handbook, 2011 Edition. EPA/600/R-090/052F, September 2011.

USEPA, 2014. Human Health Evaluation Manual, Supplemental Guidance: Update of Standard Default Exposure Factors, OSWER Directive 9200.1-120, February 6, 2014.

USEPA, 2015. Technical Guide for Assessing and Mitigating the Vapor Intrusion Pathway from Subsurface Vapor Sources to Indoor Air. Office of Land and Emergency Management, Washington DC. EPA 9200.2.-154. June 2015.

USEPA, 2017. Johnson and Ettinger Model to Evaluate Site-Specific Vapor Intrusion into Buildings, Version 6.0, September 2017.

USEPA, 2018. Vapor Intrusion Screening Level (VISL) Calculator, <a href="https://epa-visl.ornl.gov/cgibin/visl\_search">https://epa-visl.ornl.gov/cgibin/visl\_search</a>.

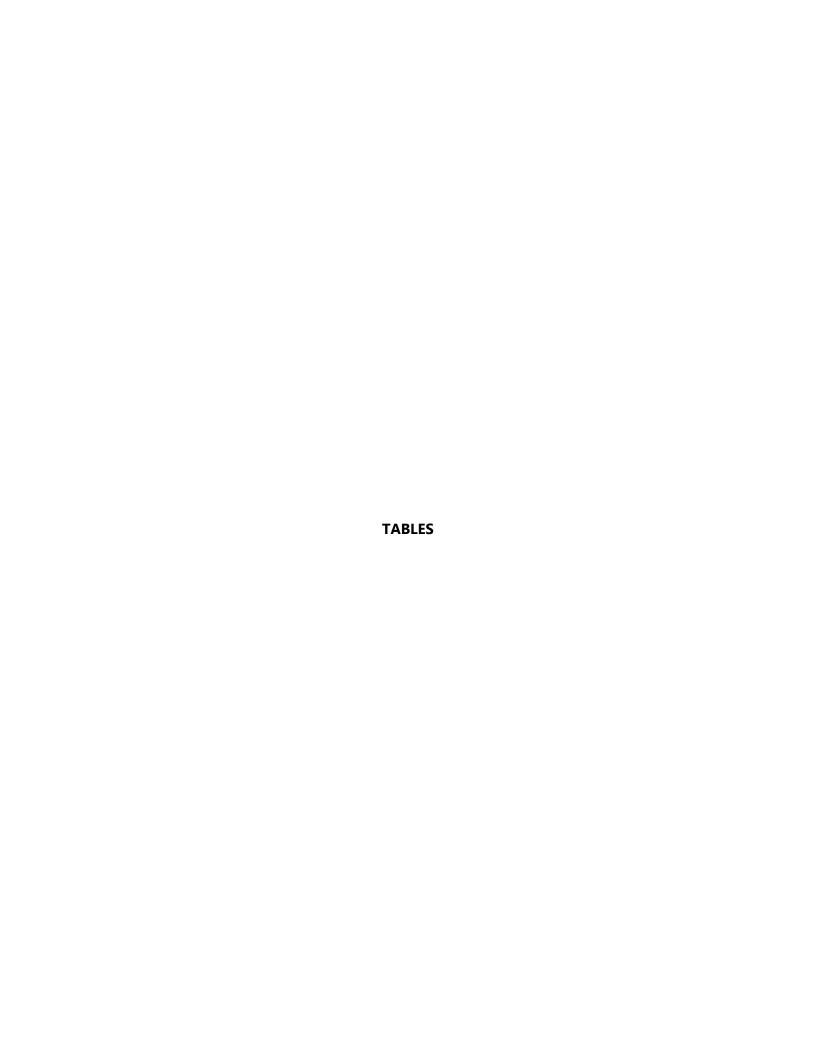


Table 1 - Summary of Shallow Soil Testing Data (2001)

Constituent	GP-1-3'	GP-2-3'	GP-3-3'	GP-4-3'	SS-1-3 <sup>'</sup>	SS-2-3'	SS-2A-0.5-1'	SS-2B-2'	SS-3-3'	SS-4-3 <sup>'</sup>
Sample Date	6/14/2001	6/14/2001	6/14/2001	6/14/2001	7/23/2001	7/23/2001	11/28/2001	11/28/2001	7/23/2001	7/23/2001
VOCs, mg/kg										
Cis-1,2-Dichloroethene	<0.0052	< 0.0053	<0.0054	< 0.0052	<0.0044	<0.18	<0.0052	0.78	<0.0045	< 0.0053
Vinyl Chloride	NT	NT	NT	NT	NT	NT	<0.010	<0.38	NT	NT

Constituent	SS-5-3 <sup>'</sup>	SS-6-3 <sup>'</sup>	SS-7-3 <sup>'</sup>	SS-8-0.5-1'*	SS-9-0.5-1'	SS-10-0.5-1'	SS-11-0.5-1'	SS-12-0.5-1'*	SS-13-0.5-1'	MW-11-4-5'
Sample Date	7/23/2001	7/23/2001	7/23/2001	11/28/2001	11/28/2001	11/28/2001	11/28/2001	11/28/2001	11/28/2001	2/14/2002
VOCs, mg/kg										
Cis-1,2-Dichloroethene	<0.005	<0.0054	<0.0047	0.051	0.0089	0.13	0.012	190.0	< 0.0053	<0.005
Vinyl Chloride	NT	NT	NT	<0.01	<0.011	<0.01	<0.01	<3.8	<0.01	<0.01

NT - Not tested

Note that the laboratory analyses employed only a limited suite of VOCs

Table 2 - Summary of Soil Testing Data (2001-2010)

Constituent	SS-1-3'	SS-2B-3'	SS-3-3 <sup>'</sup>	SS-4-3 <sup>'</sup>	SS-5-3 <sup>'</sup>	SS-6-3 <sup>'</sup>	SS-7-3 <sup>'</sup>	SS-8-3 <sup>'</sup>	SS-9-3 <sup>'</sup>	SS-10-3 <sup>'</sup>	SS-11-3'	SS-12-3'	GP-1-3'	GP-2-3'	GP-3-3'	GP-3-3' (dup)	Applicable Soil RRS, mg/kg
VOCs, mg/kg																	
1,4-Dichlorobenzene	<0.0057	<0.0044	<0.0037	<0.0052	<0.0052	<0.0047	<0.0042	<0.0046	<0.0053	0.011	<0.0049	<0.005	<0.0047	<0.0045	<0.0058	<0.0063	7.5*
Chlorobenzene	<0.0057	<0.0044	<0.0037	<0.0052	<0.0052	<0.0047	<0.0042	<0.0046	<0.0053	0.038	<0.0049	<0.005	<0.0047	<0.0045	<0.0058	<0.0063	10*
Cis-1,2-Dichloroethene	<0.0057	<0.0044	<0.0037	<0.0052	<0.0052	<0.0047	<0.0042	0.029	<0.0053	<0.0043	<0.0049	0.012	<0.0047	<0.0045	<0.0058	<0.0063	7.0*
Ethylbenzene	<0.0057	<0.0044	<0.0037	<0.0052	<0.0052	<0.0047	<0.0042	<0.0046	<0.0053	<0.0043	<0.0049	<0.005	<0.0047	<0.0045	<0.0058	<0.0063	70*
Isopropylbenzene	<0.0057	<0.0044	<0.0037	<0.0052	<0.0052	<0.0047	<0.0042	<0.0046	<0.0053	<0.0043	<0.0049	<0.005	<0.0047	<0.0045	<0.0058	<0.0063	33*
Tetrachloroethene	<0.0057	<0.0044	<0.0037	<0.0052	<0.0052	<0.0047	<0.0042	0.18	<0.0053	<0.0043	<0.0049	<0.005	<0.0047	<0.0045	<0.0058	<0.0063	0.5*
Toluene	<0.0057	<0.0044	<0.0037	<0.0052	<0.0052	<0.0047	<0.0042	<0.0046	<0.0053	<0.0043	<0.0049	<0.005	<0.0047	<0.0045	<0.0058	<0.0063	100*
Trichloroethene	<0.0057	<0.0044	<0.0037	<0.0052	<0.0052	<0.0047	<0.0042	1.9	<0.0053	0.005	0.012	0.07	<0.0047	<0.0045	<0.0058	<0.0063	0.5*
Vinyl Chloride	<0.011	<0.0089	<0.0075	<0.010	<0.010	<0.094	<0.084	0.069	<0.011	<0.0086	<0.098	<0.01	<0.0093	<0.009	<0.012	<0.013	0.2*
Xylenes	<0.0057	<0.0044	<0.0037	<0.0052	<0.0052	<0.0047	<0.0042	<0.0046	<0.0053	<0.0043	<0.0049	<0.005	<0.0047	<0.0045	<0.0058	<0.0063	1,000*
Metals, mg/kg																	
Barium	<5.7	9.45	13.3	9.96	<4.63	22.3	34.7	<5.48	5.9	15	10.7	19.4	16.6	22.4	9.3	10.2	1,000*
Chromium	14.5	15.6	17.3	21.6	12.6	21.9	15.8	20.2	15.2	27.1	19.2	18.9	21.7	21.4	24.6	25.7	1,200*
Lead	<5.7	5.48	4.84	6.33	5.36	5.81	9.75	<5.48	5.12	4.55	6.3	7.82	5.53	6.65	5.41	5.38	400*
Pesticides, mg/kg	•							•		•	•				•		
4,4'-DDD	<0.0039	<0.0038	<0.0039	<0.0039	<0.0039	<0.004	<0.004	0.0054	<0.004	4.6	0.17	1.8	<0.0038	<0.004	<0.0039	<0.0039	56**
4,4'-DDE	<0.0039	<0.0038	<0.0039	<0.0039	<0.0039	<0.004	<0.004	<0.0042	<0.004	0.22	0.046	0.48	0.0044	<0.004	<0.0039	<0.0039	40**
4,4'-DDT	<0.0039	0.0045	<0.0039	<0.0039	<0.0039	<0.004	<0.004	0.012	<0.004	6.6	0.18	5.5	0.012	<0.004	<0.0039	<0.0039	57**
Aldrin	<0.002	<0.0019	<0.002	<0.002	<0.002	<0.002	<0.002	<0.0021	<0.002	0.12	<0.002	0.016	<0.002	<0.002	<0.002	<0.002	0.66*
Alpha-BHC	<0.002	<0.0019	<0.002	<0.002	<0.002	<0.002	<0.002	<0.0021	<0.002	<9.6	0.0043	<0.01	<0.0019	<0.002	<0.002	<0.002	0.66*
Alpha Chlordane	<0.002	<0.0019	<0.002	<0.002	<0.002	<0.002	<0.002	<0.0021	<0.002	0.23	0.029	0.13	<0.0019	<0.002	<0.002	<0.002	11*
Beta-BHC	<0.002	<0.0019	0.0087	<0.002	<0.002	<0.002	<0.002	<0.0021	<0.002	0.03	0.014	0.018	<0.0019	<0.002	<0.002	<0.002	0.66*
Delta-BHC	<0.002	<0.0019	<0.002	<0.002	<0.002	<0.002	<0.002	<0.0021	<0.002	0.041	0.0072	<0.01	<0.0019	<0.002	<0.002	<0.002	0.19**
Dieldrin	<0.0039	<0.0038	0.064	<0.0039	<0.0039	<0.004	<0.004	<0.0042	<0.004	0.22	0.13	0.27	<0.0038	<0.004	<0.0039	<0.0039	0.66*
Endrin	<0.0039	<0.0038	<0.0039	<0.0039	<0.0039	<0.004	<0.004	<0.0042	<0.004	<0.019	0.011	0.19	<0.0038	<0.004	<0.0039	<0.0039	10*
Endrin Ketone	<0.0039	<0.0038	0.011	<0.0039	<0.0039	<0.004	<0.004	<0.0042	<0.004	<0.019	0.033	0.44	<0.0038	<0.004	<0.0039	<0.0039	25**
Gamma-BHC	<0.0039	<0.0038	<0.0039	<0.0039	<0.0039	<0.004	<0.004	<0.0042	<0.004	<0.019	<0.004	<0.02	<0.0038	<0.004	<0.0039	<0.0039	10*
Gamma-Chlordane	<0.002	<0.0019	0.013	<0.002	<0.002	<0.002	<0.002	<0.0021	<0.002	0.56	0.028	0.14	<0.0019	<0.002	<0.002	<0.002	11*
Heptachlor	<0.002	<0.0019	<0.002	<0.002	<0.002	<0.002	<0.002	<0.0021	<0.002	<9.6	0.0024	0.012	<0.0019	<0.002	<0.002	<0.002	0.66*
Heptachlor Epoxide	<0.002	<0.0019	<0.002	<0.002	<0.002	<0.002	<0.002	<0.0021	<0.002	<9.6	0.012	<0.01	<0.0019	<0.002	<0.002	<0.002	1.1**
Methoxychlor	<0.02	<0.019	<0.02	<0.02	<0.02	<0.02	<0.02	<21	<0.020	<960	0.52	4.3	<0.0190	<0.020	<0.020	<0.020	1.7*
Toxaphene	<0.020	<0.0190	0.52	<0.020	<0.020	<0.020	<0.020	<210	<0.02	<96	<0.02	0.27	<0.019	<0.02	<0.02	<0.02	15**
				<u> </u>													
Herbicides, mg/kg	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	NA

NT - Not tested

Not Tested

Note: Shaded Value indicates exceedance of RRS

<sup>\*</sup>Type 3 Soil Risk Reduction Standard

<sup>\*\*</sup> Type 4 Soil Risk Reduction Standard

Table 2 - Summary of Soil Testing Data (2001-2010)

Constituent	GP-4-3'	DP-1-3'	DP-2-3'	DP-2-3'(dup)	DP-3-3'	DP-4-3'	DP-5-3'	DP-6-3'	DP-7-3'	DP-8-3'	Applicable Soil RRS, mg/kg
VOCs, mg/kg				•			•				
1,4-Dichlorobenzene	<0.0044	<0.0052	<0.62	<26.0	<450	<0.0042	<0.0057	<0.0044	<0.0048	<44	7.5*
Chlorobenzene	<0.0044	<0.0052	<0.62	<26.0	<450	<0.0042	<0.0057	<0.0044	<0.0048	<44	10*
Cis-1,2-Dichloroethene	<0.0044	0.12	9.8	6.9	3.6	42	0.069	<0.0044	0.011	<44	7.0*
Ethylbenzene	<0.0044	0.053	680	370	8.9	0.33	0.66	0.007	<0.0048	680	70*
Isopropylbenzene	<0.0044	<0.0052	10	<26.0	<450	0.014	<0.0057	<0.0044	<0.0048	<44	33*
Tetrachloroethene	<0.0044	<0.0052	<0.62	<26.0	<450	<0.0042	<0.0057	<0.0044	<0.0048	<44	0.5*
Toluene	<0.0044	<0.0052	13	8.1	<450	0.011	0.0094	<0.0044	<0.0048	<44	100*
Trichloroethene	<0.0044	0.037	36	18	0.81	0.051	0.028	<0.0044	<0.0048	<44	0.5*
Vinyl Chloride	<0.0088	<0.01	<1.2	<51.0	3.2	0.016	<0.011	<8.7	0.029	<44	0.2*
Xylenes	<0.0044	0.42	4,200	2,400	52	2.2	4.7	0.017	<0.0048	4,700	1,000*
Metals, mg/kg											
Barium	20.3	8.59	11	11.4	9.47	5	NT	NT	NT	NT	1,000*
Chromium	17.5	21.3	16	17.5	15	12	NT	NT	NT	NT	1,200*
Lead	5.85	4.88	4.63	6.04	4.92	<3.89	NT	NT	NT	NT	400*
Pesticides, mg/kg		•	•	-	•		•				
4,4'-DDD	<0.0038	32	4.8	6.4	48	0.47	10	0.21	0.27	2,800	56**
4,4'-DDE	<0.0038	2.8	0.69	0.77	3.3	0.11	1.7	<0.02	<0.02	150	40**
4,4'-DDT	4.2	180	5.3	23	3.7	2.3	79	0.093	0.028	4,300	57**
Aldrin	<0.0019	1.4	0.043	0.83	0.094	0.019	<9.9	<0.01	<0.01	<9.8	0.66*
Alpha-BHC	<0.0019	300	0	0.87	0.067	0.0091	0.04	<0.01	0.015	8.7	0.66*
Alpha Chlordane	<0.0019	4.3	0.34	0.51	7.6	0.25	1.3	0.011	0.025	160	11*
Beta-BHC	<0.0019	<0.020	0.019	0.26	<0.039	0.041	0.044	<0.01	<0.01	18	0.66*
Delta-BHC	<0.0019	210	0.022	1.1	1.2	0.028	0.066	<0.01	<0.01	79	0.19**
Dieldrin	<0.0038	2.8	0.6	0.84	8.9	0.54	<2	<0.02	0.023	<98	0.66*
Endrin	<0.0038	11	0.12	3.4	<0.078	0.32	4.3	<0.02	<0.02	370	10*
Endrin Ketone	<0.0038	5.4	0.26	0.8	1.8	0.35	3.3	<0.02	<0.02	270	25**
Gamma-BHC	<0.0038	<0.390	0.028	1.3	0.59	0.016	0.034	<0.02	<0.02	150	10*
Gamma-Chlordane	<0.0019	5.2	0.3	0.68	8.8	0.32	1.5	0.013	0.041	180	11*
Heptachlor	<0.0019	2.3	0.028	0.98	0.72	0.018	0.15	<0.01	<0.01	42	0.66*
Heptachlor Epoxide	<0.0019	<0.020	<0.01	<0.039	<0.039	<0.0019	<9.9	<0.01	<0.01	<49	1.1**
Methoxychlor	<0.019	7.8	<0.010	<0.390	<0.390	<0.019	<9.9	<0.010	<0.010	<49	1.7*
Toxaphene	<0.0190	98	5.9	38	61	5.4	56	<0.010	<0.010	2,700	15**
Herbicides, mg/kg	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	NA

NT - Not tested

\*Type 3 Soil Risk Reduction Standard

\*\* Type 4 Soil Risk Reduction Standard

Not Tested

Note: Shaded Value indicates exceedance of RRS

Table 3 - Summary of Soil Delineation Data (January 2013)

Boring No.	GP-9	GP-10	GP-11	GP-12	GP-15	GP-17	ss	i-13	ss	-14	SS	-15	SS	-16	SS	-17	Applicable Soil RRS mg/kg
Depth, Ft.	3	2-25	2-2.5	2-2.5	2-2.5	2-2.5	0.5-1	2-2.5	0.5-1	2-2.5	0.5-1	2-2.5	0.5-1	2-2.5	0.5-1	2-2.5	
VOCs, mg/kg																	
1,4-Dichlorobenzene	<0.0047	<0.0049	<0.004	0.12	NT	<0.0045	<0.004	<0.0052	<0.0039	<0.0054	<0.006	<0.0054	<0.005	<0.0047	<0.0048	<0.0057	7.5*
1,1,1,2-Tetrachloroethane	<0.0047	<0.0049	<0.004	0.018	NT	<0.0045	<0.004	<0.0052	<0.0039	<0.0054	<0.006	<0.0054	<0.005	<0.0047	<0.0048	<0.0057	0.5*
Benzene	<0.0047	<0.0049	<0.004	0.013	NT	<0.0045	<0.004	0.0057	<0.0039	<0.0054	<0.006	<0.0054	<0.005	<0.0047	<0.0048	<0.0057	0.5*
Chlorobenzene	<0.0047	<0.0049	<0.004	0.099	NT	<0.0045	0.0075	0.02	<0.0039	<0.0054	<0.006	<0.0054	<0.005	<0.0047	<0.0048	<0.0057	10*
cis-1,2-Dichloroethene	<0.0047	<0.0049	<0.004	0.22	NT	<0.0045	<0.004	<0.0052	<0.0039	<0.0054	<0.006	<0.0054	<0.005	0.14	<0.0048	<0.0057	7.0*
Ethylbenzene	<0.0047	<0.0049	<0.004	0.011	NT	<0.0045	<0.004	<0.0052	<0.0039	<0.0054	<0.006	<0.0054	<0.005	<0.0047	<0.0048	<0.0057	70*
Isopropylbenzene	<0.0047	<0.0049	<0.004	<0.0043	NT	<0.0045	<0.004	<0.0052	<0.0039	<0.0054	<0.006	<0.0054	<0.005	<0.0047	<0.0048	<0.0057	33**
Tetrachloroethene	<0.0047	<0.0049	<0.004	0.017	NT	<0.0045	<0.004	<0.0052	<0.0039	<0.0054	<0.006	<0.0054	<0.005	<0.0047	<0.0048	<0.0057	0.5*
Toluene	<0.0047	<0.0049	<0.004	0.0053	NT	<0.0045	<0.004	<0.0052	<0.0039	<0.0054	<0.006	<0.0054	<0.005	<0.0047	<0.0048	<0.0057	100*
Trichloroethene	<0.0047	<0.0049	<0.004	0.82	NT	<0.0045	<0.004	<0.0052	<0.0039	<0.0054	<0.0054	<0.0054	0.1	0.16	<0.0048	<0.0057	0.5*
Vinyl Chloride	<0.0094	<0.0097	<0.008	0.038	NT	<0.009	<0.0086	<0.010	<0.0078	<0.011	<0.012	<0.011	<0.10	<0.0047	<0.0096	<0.011	0.2*
Xylenes	<0.0047	<0.0049	<0.004	0.019	NT	<0.0045	<0.004	<0.0052	<0.0039	<0.0054	<0.006	<0.0054	<0.005	<0.0047	<0.0048	<0.0057	1,000*
PESTICIDES, mg/kg																	
4,4'-DDD	0.0062	<0.190	<0.0037	1.4	<0.0037	NT	0.088	<0.0041	0.13	0.093	0.073	<0.004	<0.02	<0.004	<0.019	<0.004	56**
4,4'-DDE	0.0057	0.81	0.0064	0.077	<0.0037	NT	0.0049	<0.0041	0.028	0.045	0.016	<0.004	<0.02	<0.004	0.27	<0.004	40**
4,4'-DDT	0.02	14	0.005	2	<0.0037	NT	0.0082	0.005	0.062	0.086	0.039	<0.004	<0.02	<0.004	0.36	0.005	57**
Aldrin	<0.0018	0.82	<0.0018	0.01	<0.0018	NT	<0.002	<0.0021	<0.0019	<0.0019	<0.002	<0.002	<0.098	<0.002	<0.0093	<0.002	0.66*
Alpha BHC	<0.0018	<0.097	<0.0018	0.25	<0.0018	NT	<0.002	<0.0021	<0.0019	<0.0019	<0.002	<0.002	<0.098	<0.002	<0.0093	<0.002	0.66*
Alpha Chlordane	<0.0018	0.75	0.0021	0.11	<0.0018	NT	0.0067	<0.0021	0.0093	0.0051	0.015	<0.002	<0.098	<0.002	0.17	<0.002	11*
Beta BHC	<0.0018	0.11	<0.0018	0.041	<0.0018	NT	0.0021	<0.0021	<0.0019	<0.0019	<0.002	<0.002	<0.098	<0.002	<0.0093	0.0026	0.66*
Delta BHC	<0.0018	0.2	0.0037	0.093	0.004	NT	<0.002	<0.0021	<0.0019	<0.0019	<0.002	<0.002	<0.098	<0.002	<0.0093	0.0076	0.19**
Dieldrin	<0.0037	5	<0.0037	0.058	<0.0037	NT	0.02	<0.0041	0.028	0.0098	0.03	<0.004	<0.02	<0.004	0.31	<0.004	0.66*
Endosulfan II	<0.0037	<0.190	<0.0037	<0.019	<0.0037	NT	<0.0039	<0.0041	<0.0038	<0.0039	0.0057	<0.004	<0.02	<0.004	<0.019	<0.004	10*
Endrin	<0.0037	<0.190	<0.0037	0.28	<0.0037	NT	<0.0039	<0.0041	0.0075	<0.0039	<0.002	<0.004	<0.02	<0.004	<0.019	<0.004	25**
Endrin Ketone	0.0042	<0.190	0.015	0.18	<0.0018	NT	<0.0039	<0.0041	0.0082	<0.0039	0.0046	<0.004	<0.02	<0.004	<0.019	<0.004	10*
Gamma Chlordane	<0.0018	0.96	0.0019	0.091	<0.0018	NT	0.006	<0.0021	0.012	0.0046	0.016	<0.002	<0.098	<0.002	0.21	<0.002	11*
Gamma BHC	<0.0018	<0.097	<0.0018	0.55	<0.0018	NT	<0.002	<0.0021	<0.0019	<0.0019	<0.002	<0.002	<0.098	<0.002	<0.0093	<0.002	0.66*
Heptachlor	<0.0018	<0.097	<0.0018	0.02	<0.0018	NT	<0.002	<0.0021	<0.0019	<0.0019	<0.002	<0.002	<0.098	<0.002	<0.0093	<0.002	1.1**
Heptachlor Epoxide	<0.0018	<0.097	<0.0018	<0.0096	<0.0018	NT	<0.002	<0.0021	<0.0019	<0.0019	<0.002	<0.002	<0.098	<0.002	<0.0093	<0.002	1.7*
Toxaphene	<0.18	70	<0.18	2.7	<0.18	NT	<0.20	<0.21	<0.19	<0.19	<0.20	<0.20	<0.98	<0.20	3.7	<0.20	15**

NT - Not tested

Note: Shaded values indicate exceedance of RRS

<sup>\*</sup>Type 3 Soil Risk Reduction Standard

<sup>\*\*</sup> Type 4 Soil Risk Reduction Standard

Table 4 - Summary of Soil Confirmation Data - Interior Excavation (2013)

Boring No.	DP-6	DP-7	DP-9	GP-10	GP-11	GP-12	GP-17 <sup>1</sup>	GP-15 <sup>2</sup>	GP-9	CS-8	CS-9A	Applicable Soil RRS, mg/kg
Depth, Ft.	3	2-25	2-2.5	2-2.5	2-2.5	2-2.5	2-2.5	0.5-1	2-2.5	0.5-1	2-2.5	
VOCs, mg/kg							-					
1,4-Dichlorobenzene	<0.0044	<0.0048	<0.0054	<0.0049	<0.004	0.12	<0.0045	NT	<0.0047	<0.005	NT	7.5*
1,1,2,2-Tetrachloroethene	<0.0044	<0.0048	<0.0054	<0.0049	<0.004	0.018	<0.0045	NT	<0.0047	<0.005	NT	0.5*
Benzene	<0.0044	<0.0048	<0.0054	<0.0049	<0.004	0.013	<0.0045	NT	<0.0047	<0.005	NT	0.5*
Chlorobenzene	<0.0044	<0.0048	<0.0054	<0.0049	<0.004	0.099	<0.0045	NT	<0.0047	<0.005	NT	10*
Cis-1,2-Dichloroethene	<0.0044	0.011	<0.0054	<0.0049	<0.004	0.22	<0.0045	NT	<0.0047	<0.005	NT	7.0*
Ethylbenzene	0.007	<0.0048	<0.0054	<0.0049	<0.004	0.011	<0.0045	NT	<0.0047	<0.005	NT	70*
Tetrachloroethene	<0.0044	<0.0048	<0.0054	<0.0049	<0.004	0.017	<0.0045	NT	<0.0047	<0.005	NT	0.5*
Toluene	<0.0044	<0.0048	<0.0054	<0.0049	<0.004	0.0053	<0.0045	NT	<0.0047	<0.005	NT	100*
Trichloroethene	<0.0044	<0.0048	<0.0054	<0.0049	<0.004	0.82	<0.0045	NT	<0.0047	<0.005	NT	0.5*
Vinyl Chloride	<0.0087	0.029	<0.0054	<0.0097	<0.008	0.028	<0.009	NT	<0.0094	<0.010	NT	0.2*
Xylenes	0.017	<0.0048	<0.0054	<0.0049	<0.004	0.019	0.021	NT	<0.0047	<0.005	NT	1,000*
PESTICIDES, mg/kg												
4,4'-DDD	0.21	0.27	<0.0038	<0.19	<0.0037	1.4	NT	<0.0037	0.0062	<0.0037	<0.0042	56**
4,4'-DDE	<0.020	<0.020	<0.0038	0.81	0.0064	0.077	NT	<0.0037	0.0057	<0.0037	<0.0042	40**
4,4'-DDT	0.093	0.028	<0.0038	14	0.005	2	NT	<0.0037	0.02	0.0049	0.013	57**
Aldrin	<0.010	<0.010	<0.0038	<0.097	<0.0018	0.01	NT	<0.0018	<0.0018	<0.0018	<0.0021	0.66*
Alpha BHC	<0.010	0.015	<0.0038	<0.097	<0.0018	0.25	NT	<0.0018	<0.0018	0.0027	<0.0021	0.66*
Alpha Chlordane	0.011	0.025	<0.0194	0.75	0.0021	0.11	NT	<0.0018	<0.0018	<0.0018	0.034	11*
Beta BHC	<0.010	<0.010	<0.0038	0.11	<0.0018	0.041	NT	<0.0018	<0.0018	<0.0018	<0.0021	0.66*
Delta BHC	<0.020	<0.010	<0.0038	0.2	0.0037	0.093	NT	0.004	<0.0018	<0.0018	<0.0021	0.19**
Dieldrin	<0.020	0.023	<0.0038	5	<0.0037	0.058	NT	<0.0037	<0.0037	<0.0037	<0.0042	0.66*
Endrin	<0.020	<0.020	<0.0075	<0.19	<0.0037	0.28	NT	<0.0037	<0.0037	<0.0037	<0.0042	25**
Endrin Ketone	<0.020	<0.020	<0.0075	<0.19	0.015	0.18	NT	<0.0037	0.0042	0.007	<0.0042	10*
Gamma Chlordane	0.013	0.041	<0.0194	0.96	0.0019	0.091	NT	<0.0018	<0.0018	<0.0018	0.0061	11*
Gamma BHC	<0.010	<0.010	<0.0038	<0.097	<0.0018	0.55	NT	<0.0018	<0.0018	0.0031	<0.0021	0.66*
Heptachlor	<0.010	<0.010	<0.0038	<0.097	<0.0018	0.02	NT	<0.018	<0.018	<0.0037	<0.0021	1.1**
Toxaphene	<1.0	<1.0	<0.0753	70	<0.180	2.7	NT	<0.180	<0.180	<0.180	<0.21	15**

NT - Not tested

NT - Not tested

Note: Shaded values indicate exceedance of RRS

<sup>\*</sup>Type 3 Soil Risk Reduction Standard

<sup>\*\*</sup> Type 4 Soil Risk Reduction Standard

<sup>&</sup>lt;sup>1</sup>GP-17 was not tested for pesticides as the adjacent sample (GP-12) did not detect pesticides above RRS.

<sup>&</sup>lt;sup>2</sup>GP-15 was not tested for VOCs as the adjacent sample (GP-10) did not detect VOCs above RRS

Table 5 – Soil Confirmation Testing Results
West Exterior Excavation

Boring No.	CS-1	CS-2	CS-12	SS-8S15	SS-16	SS-16	Applicable Soil RRS, mg/kg
Depth, Ft.	1.5	1.5	1.5	2	0.5-1	2-2.5	
VOCs, mg/kg							
Cis-1,2-Dichloroethene	NT	NT	NT	NT	0.048	0.14	0.7
Trichloroethene	0.064	0.032	<0.0052	0.034	0.1	0.16	0.5

Table 6 – Soil Confirmation Testing Results
East Exterior Excavation

Boring No.	CS-6	CS-7	CS-11	CS-14	SS-12W15	SS-12E15	Applicable Soil RRS, mg/kg
Depth, Ft.	1.5	1.5	1.5	2	1.5	1.5	
VOCs, mg/kg							
Trichloroethene	0.061	0.018	<0.0042	0.024	<0.0059	< 0.0053	0.5

mg/kg - milligrams per kilogram (parts per million)

Table 7 - Cumulative Summary of Groundwater Testing Results

			Table 7 - Cumulative Summary of Groundwater Testing Results															
Constituent		dential Risk andards, μg/L					MW-1								MW-2			
Date	Type 3	Type 4	4/25/2001	8/3/2001	2/19/2002	12/11/2009	12/31/2013	6/16/2014	12/17/2014	6/3/2015	DUP	11/29/2001	2/19/2002	12/11/2009	12/30/2013	6/16/2014	12/16/2014	6/5/2015
VOCs, ug/L			•	•					•			•		•				
1,1-Dichloroethane	4,000	46	NT	NT	NT	<5.0	<5.0	<1.0	<10	<10	<10	NT	NT	<5.0	<5.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	7	523	NT	NT	<5.0	<5.0	<5.0	2.2	<10	<10	<10	<20	<10	<5.0	<5.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	600	548	NT	NT	NT	<5.0	<5.0	<1.0	<10	<10	<10	NT	NT	<5.0	<5.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	600	548	NT	NT	NT	<5.0	<5.0	<1.0	<10	<10	<10	NT	NT	<5.0	<5.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	70	519	NT	NT	NT	<5.0	<5.0	1.2	<10	<10	<10	NT	NT	<5.0	<5.0	3.0	1.6	2.0
1,2,4-Trichlorobenzene	70	5.79	NT	NT	NT	<5.0	<5.0	<1.0	<10	<10	<10	NT	NT	<5.0	<5.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	5	4.6	NT	NT	NT	<5.0	<5.0	<1.0	<10	<10	<10	NT	NT	<5.0	<5.0	<1.0	<1.0	<1.0
Benzene	5	8.8	NT	NT	NT	<5.0	<5.0	<1.0	<10	<10	<10	NT	NT	<5.0	<5.0	3.9	3.4	3.5
Chlorobenzene	100	130	NT	NT	NT	<5.0	<5.0	1.4	<10	<10	<10	NT	NT	10	8.6	11.8	10.2	12.3
Chloroform	80	3	NT	NT	NT	<5.0	<5.0	<1.0	<10	<10	<10	NT	NT	<5.0	<5.0	<5.0	<5.0	<5.0
Chloromethane	3	270	NT	NT	NT	<5.0	<5.0	<1.0	<10	<10	<10	NT	NT	<5.0	<5.0	<5.0	<5.0	<5.0
Cis-1,2-Dichloroethene	70	200	NT	NT	180	820	145	902	709	742	724	480	270	430	101	160	77.2	145
Ethylbenzene	700	29	NT	NT	NT	<5.0	<5.0	<1.0	<10	<10	<10	NT	NT	<5.0	<5.0	2.5	1.4	2.3
Isopropylbenzene	5	1,000	NT	NT	NT	<5.0	<5.0	<1.0	<10	<10	<10	NT	NT	<5.0	<5.0	<1.0	<1.0	<1.0
Isopropyltoluene	NR	NR	NT	NT	NT	<5.0	<5.0	<1.0	<10	<10	<10	NT	NT	<5.0	<5.0	<1.0	1.6	<1.0
Methylene Chloride	5	450	NT	NT	NT	<5.0	<5.0	<2.0	<20	<20	<20	NT	NT	<5.0	<5.0	<2.0	<2.0	<2.0
Naphthalene	20	2.4	NT	NT	NT	<5.0	<5.0	<1.0	<10	<10	<10	NT	NT	<5.0	<5.0	10.5	<1.0	5.5
Tetrachloroethene	5	98	NT	NT	NT	<5.0	<5.0	1.2	<10	<10	<10	NT	NT	<5.0	<5.0	<1.0	<1.0	<1.0
Toluene	1000	5200	NT	NT	NT	<5.0	<5.0	<1.0	<10	<10	<10	NT	NT	<5.0	<5.0	<1.0	<1.0	<1.0
Trans-1,2-Dichloroethene	100	160	NT	NT	<5.0	<5.0	<5.0	2.9	<10	<10	<10	<20	<10	<5.0	<5.0	1.1	<1.0	<1.0
Trichloroethene	5	38	350	180	140	860	193	788	612	623	596	25	14	5.6	<5.0	2.1	<1.0	2.0
Vinyl Chloride	2	3.3	NT	NT	<10	5	<5.0	160	<10	13.9	13	<40	<20	350	107	159	88.1	120
Xylenes	10,000	290	NT	NT	NT	<5.0	<5.0	<1.0	<10	<10	<10	NT	NT	18	<10	6.1	2.3	7.8
Pesticides, ug/L																		
4,4'-DDD	0.1	12	NT	NT	NT	<0.10	< 0.05	< 0.05	<0.05	< 0.05	<0.05	NT	NT	<0.10	<1.0	<1.0	<1.2	<1.2
4,4'-DDE	0.1	84	NT	NT	NT	<0.10	< 0.05	< 0.05	<0.05	< 0.05	< 0.05	NT	NT	<0.10	<1.0	<1.0	<1.2	<1.2
4,4'-DDT	0.1	8.4	NT	NT	NT	<0.10	< 0.05	<0.05	< 0.05	< 0.05	<0.05	NT	NT	<0.10	<1.0	<1.0	<1.2	<1.2
Alpha-BHC	0.05	0.45	NT	NT	NT	0.052	<0.05	< 0.05	<0.05	<0.05	< 0.05	NT	NT	2	6.4	5.3	7.3	6.5
Beta-BHC	0.05	1.6	NT	NT	NT	0.073	0.057	0.11	0.082	0.16	0.19	NT	NT	0.49	1.5	<1.0	1.4	<1.2
Delta-BHC	0.05	1.6	NT	NT	NT	<0.05	<0.05	<0.05	< 0.05	<0.05	<0.05	NT	NT	1.8	8	8.1	8.7	9
Dieldrin	0.1	0.18	NT	NT	NT	<0.10	0.076	0.12	0.058	0.13	0.15	NT	NT	0.5	<1.0	1.8	<1.2	<1.2
Endosulfan II	2	610	NT	NT	NT	<0.10	0.076	<0.05	<0.05	<0.05	<0.05	NT	NT	<0.10	<0.10	<0.10	<1.2	<1.2
Endrin	2	31	NT	NT	NT	<0.10	<0.05	<0.05	<0.05	<0.05	<0.05	NT	NT	<0.10	<1.0	<1.0	<1.2	<1.2
Endrin Ketone	0.1	ND	NT	NT	NT	0.13	0.1	0.24	0.17	0.25	0.3	NT	NT	0.31	<1.0	<1.0	<1.2	<1.2
Gamma-BHC	0.2	2.6	NT	NT	NT	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	NT	NT	1.1	2.3	1.9	2.5	2.3
Chlordane	2	8.2	NT	NT	NT	<0.05	<0.2	<0.2	<0.2	<0.2	<0.2	NT	NT	2.22	<4.0	<4.0	<5.0	<5.0
Toxaphene	5	2.6	NT	NT	NT	<5.0	<0.2	<0.2	<0.2	<0.2	<0.2	NT	NT	<5.0	<4.0	<4.0	<5.0	<5.0
Chlorinated Herbicides			NT	NT	NT	BRL	NT	NT	NT	NT	NT	NT	NT	BRL	NT	NT	NT	NT

ug/L - micrograms per liter (parts per billion)

NT - Not tested

Note: Shaded values indicate exceedance of RRS

Samples outlined in red were removed during June

2013 soil remediation

Table 7 - Cumulative Summary of Groundwater Testing Results

Constituent		dential Risk tandards, μg/L	MW-3 MW-4										MW-5										
Date	Type 3	Type 4	4/25/2001	12/13/2001	2/19/2002	12/11/2009	12/30/2013	6/16/2014	12/16/2014	6/5/2015	2/19/2002	3/11/2009	12/10/2009	12/30/2013	6/18/2014	12/17/2014	6/4/2015	2/19/2002	12/11/2009	12/30/2013	6/18/2014	12/18/2014	6/3/2015
VOCs, ug/L	7.			1	l											1		1	l	l			
1,1-Dichloroethane	4,000	46	NT	NT	NT	<5.0	<5.0	<1.0	<1.0	<1.0	NT	<5.0	<5.0	NS	<1.0	<1.0	<1.0	NT	NT	<5.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	7	523	NT	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	NS	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	600	548	NT	NT	NT	<5.0	<5.0	<1.0	<1.0	<1.0	NT	<5.0	<5.0	NS	<1.0	<1.0	<1.0	NT	NT	<5.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	600	548	NT	NT	NT	<5.0	<5.0	<1.0	<1.0	<1.0	NT	<5.0	<5.0	NS	<1.0	<1.0	<1.0	NT	NT	<5.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	70	519	NT	NT	NT	<5.0	<5.0	<1.0	<1.0	<1.0	NT	<5.0	<5.0	NS	<1.0	<1.0	<1.0	NT	NT	<5.0	<1.0	<1.0	<1.0
1,2,4-Trichlorobenzene	70	5.79	NT	NT	NT	<5.0	<5.0	<1.0	<1.0	<1.0	NT	<5.0	<5.0	NS	<1.0	<1.0	<1.0	NT	NT	<5.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	5	4.6	NT	NT	NT	<5.0	<5.0	<1.0	<1.0	<1.0	NT	NT	<5.0	NS	<1.0	<1.0	<1.0	NT	<5.0	<5.0	<1.0	<1.0	<1.0
Benzene	5	8.8	NT	NT	NT	<5.0	<5.0	<1.0	<1.0	<1.0	NT	<5.0	<5.0	NS	<1.0	<1.0	<1.0	NT	NT	<5.0	<1.0	<1.0	<1.0
Chlorobenzene	100	130	NT	NT	NT	<5.0	<5.0	<1.0	<1.0	<1.0	NT	NT	<5.0	NS	<1.0	<1.0	<1.0	NT	<5.0	<5.0	<1.0	<1.0	<1.0
Chloroform	80	3	NT	NT	NT	<5.0	<5.0	<1.0	<1.0	<1.0	NT	NT	<5.0	NS	<1.0	<1.0	<1.0	NT	<5.0	<5.0	<1.0	<1.0	<1.0
Chloromethane	3	270	NT	NT	NT	<5.0	<5.0	<1.0	<1.0	<1.0	NT	NT	<5.0	NS	<1.0	<1.0	<1.0	NT	<5.0	<5.0	<1.0	<1.0	<1.0
Cis-1,2-Dichloroethene	70	200	NT	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	15	<5.0	<5.0	NS	5.1	3.2	3.5	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0
Ethylbenzene	700	29	NT	NT	NT	<5.0	<5.0	<1.0	<1.0	<1.0	NT	<5.0	<5.0	NS	<1.0	<1.0	<1.0	NT	NT	<5.0	<1.0	<1.0	<1.0
Isopropylbenzene	5	1,000	NT	NT	NT	<5.0	<5.0	<1.0	<1.0	<1.0	NT	<5.0	<5.0	NS	<1.0	<1.0	<1.0	NT	NT	<5.0	<1.0	<1.0	<1.0
Isopropyltoluene	NR	NR	NT	NT	NT	<5.0	<5.0	<1.0	<1.0	<1.0	NT	<5.0	<5.0	NS	<1.0	<1.0	<1.0	NT	NT	<5.0	<1.0	<1.0	<1.0
Methylene Chloride	5	450	NT	NT	NT	<5.0	<5.0	<2.0	<2.0	<2.0	NT	<5.0	<5.0	NS	<2.0	<2.0	<2.0	NT	NT	<5.0	<2.0	<2.0	<2.0
Naphthalene	20	2.4	NT	NT	NT	<5.0	<5.0	<1.0	<1.0	<1.0	NT	<5.0	<5.0	NS	<1.0	<1.0	<1.0	NT	NT	<5.0	<1.0	<1.0	<1.0
Tetrachloroethene	5	98	NT	NT	NT	<5.0	<5.0	<1.0	<1.0	<1.0	NT	NT	<5.0	NS	<1.0	<1.0	<1.0	NT	<5.0	<5.0	<1.0	<1.0	<1.0
Toluene	1000	5200	NT	NT	NT	<5.0	<5.0	<1.0	1.2	1.0	NT	NT	<5.0	NS	<1.0	<1.0	<1.0	NT	<5.0	<5.0	<1.0	<1.0	<1.0
Trans-1,2-Dichloroethene	100	160	NT	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	NS	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0
Trichloroethene	5	38	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0	1.6	11	<5.0	<5.0	NS	7.8	1.7	1.2	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0
Vinyl Chloride	2	3.3	NT	<10	<10	<2.0	<2.0	<1.0	<1.0	<1.0	<10	<10	<2.0	NS	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<1.0	<1.0	<1.0
Xylenes	10,000	290	NT	NT	NT	<5.0	<5.0	<2.0	<2.0	<2.0	NT	NT	<5.0	NS	<2.0	<2.0	<2.0	NT	<5.0	<5.0	<2.0	<2.0	<2.0
Pesticides, ug/L		1									1	1	1	1		_					ı	1	1
4,4'-DDD	0.1	12	NT	NT	NT	<0.10	<0.10	<0.05	<0.05	<0.05	NT	NT	<0.10	NS	<0.05	<0.05	<0.05	NT	<0.10	<0.10	<0.05	<0.05	<0.05
4,4'-DDE	0.1	84	NT	NT	NT	<0.05	<0.05	<0.05	<0.05	<0.05	NT	NT	<0.05	NS	<0.05	<0.05	<0.05	NT	<0.05	<0.05	<0.05	<0.05	<0.05
4,4'-DDT	0.1	8.4	NT	NT	NT	<0.05	<0.05	<0.05	<0.05	<0.05	NT	NT	<0.05	NS	<0.05	<0.05	<0.05	NT	<0.05	<0.05	<0.05	<0.05	<0.05
Alpha-BHC	0.05	0.45	NT	NT	NT	<0.05	<0.05	<0.05	<0.05	<0.05	NT	NT	<0.05	NS	<0.05	<0.05	<0.05	NT	<0.05	<0.05	<0.05	<0.05	<0.05
Beta-BHC	0.05	1.6	NT	NT	NT	<0.05	<0.05	<0.05	<0.05	<0.05	NT	NT	<0.05	NS	<0.05	<0.05	<0.05	NT	<0.05	<0.05	<0.05	<0.05	<0.05
Delta-BHC	0.05	1.6	NT	NT	NT	<0.05	<0.05	<0.05	<0.05	<0.05	NT	NT	<0.05	NS	<0.05	<0.05	<0.05	NT	<0.05	<0.05	<0.05	<0.05	<0.05
Dieldrin	0.1	0.18	NT	NT	NT	<0.10	<0.10	<0.05	<0.05	<0.05	NT	NT	<0.10	NS	<0.05	<0.05	<0.05	NT	<0.10	<0.10	<0.05	<0.05	<0.05
Endosulfan II	2	610	NT	NT	NT	<0.10	<0.10	<0.05	<0.05	<0.05	NT	NT	<0.10	NS	<0.05	<0.05	<0.05	NT	<0.10	<0.10	<0.05	<0.05	<0.05
Endrin	2	31	NT	NT	NT	<0.10	<0.10	<0.05	<0.05	<0.05	NT	NT	<0.10	NS	<0.05	<0.05	<0.05	NT	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin Ketone	0.1	ND 0.0	NT	NT	NT	<0.10	<0.10	<0.05	<0.05	<0.05	NT	NT	<0.10	NS NC	<0.05	<0.05	<0.05	NT	<0.10	<0.10	<0.05	<0.05	<0.05
Gamma-BHC	0.2	2.6	NT	NT	NT	<0.05	<0.05	<0.05	<0.05	<0.05	NT	NT	<0.05	NS NC	<0.05	<0.05	<0.05	NT	<0.05	<0.05	<0.05	<0.05	<0.05
Chlordane	2	8.2	NT	NT	NT	<0.2	<0.2	<0.2	<0.2	<0.2	NT	NT	<0.05	NS NC	<0.2	<0.2	<0.2	NT	<0.05	<0.05	<0.2	<0.2	<0.2
Toxaphene Chlorinated Herbicides	5	2.6	NT NT	NT NT	NT NT	<0.2 BRL	<0.2 NT	<0.2 NT	<0.2 NT	<0.2 NT	NT NT	NT NT	<5.0 BRL	NS NS	<0.2 NT	<0.2 NT	<0.2 NT	NT NT	<5.0 BRL	<0.2 NT	<0.2 NT	<0.2 NT	<0.2 NT
Ciliofiliated Herbicides	1	l	INI	INI	INI	DKL	INI	INI	INI	INI	INI	INI	DKL	CNI	INI	INI	INI	INI	DKL	INI	INI	INI	INI

ug/L - micrograms per liter (parts per billion)

NT - Not tested

Note: Shaded values indicate exceedance of RRS

Samples outlined in red were removed during June

2013 soil remediation

Table 7 - Cumulative Summary of Groundwater Testing Results

									1	- Cummuna	y 0. 0. 0a.	idwater re	oung noc				1						
Constituent		dential Risk tandards, μg/L			MW	<b>/</b> -6			MW-7									MW-9					
Date	Type 3	Type 4	2/19/2002	3/11/2002	12/11/2009	12/31/2013	12/18/2014	6/3/2015	2/19/2002	3/11/2002	12/11/2009	12/31/2013	DUP	6/18/2014	12/18/2014	6/4/2015	2/19/2002	2/19/2002	12/11/2009	12/30/2013	6/16/2014	12/18/2014	6/5/2015
VOCs, ug/L	1		II.	I		1								l.			I	1	l				
1,1-Dichloroethane	4,000	46	NT	NT	<5.0	<5.0	<1.0	<1.0	NT	NT	NS	<5.0	<5.0	<1.0	<1.0	<1.0	<5.0	NT	<5.0	<5.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	7	523	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0	<5.0	<5.0	NS	<5.0	<5.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	600	548	NT	NT	<5.0	<5.0	<1.0	<1.0	NT	NT	NS	<5.0	<5.0	<1.0	<1.0	<1.0	<5.0	NT	<5.0	<5.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	600	548	NT	NT	<5.0	<5.0	<1.0	<1.0	NT	NT	NS	<5.0	<5.0	<1.0	<1.0	<1.0	<5.0	NT	<5.0	<5.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	70	519	NT	NT	<5.0	<5.0	<1.0	<1.0	NT	NT	NS	<5.0	<5.0	<1.0	<1.0	<1.0	<5.0	NT	<5.0	<5.0	<1.0	<1.0	<1.0
1,2,4-Trichlorobenzene	70	5.79	NT	NT	<5.0	<5.0	<1.0	<1.0	NT	NT	NS	<5.0	<5.0	<1.0	<1.0	<1.0	<5.0	NT	<5.0	<5.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	5	4.6	NT	NT	<5.0	<5.0	<1.0	<1.0	NT	NT	NS	<5.0	<5.0	<1.0	<1.0	<1.0	<5.0	NT	<5.0	<5.0	<1.0	<1.0	<1.0
Benzene	5	8.8	NT	NT	<5.0	<5.0	<1.0	<1.0	NT	NT	NS	<5.0	<5.0	<1.0	<1.0	<1.0	<5.0	NT	<5.0	<5.0	<1.0	<1.0	<1.0
Chlorobenzene	100	130	NT	NT	<5.0	<5.0	<1.0	<1.0	NT	NT	NS	<5.0	<5.0	<1.0	<1.0	<1.0	<5.0	NT	<5.0	<5.0	<1.0	<1.0	<1.0
Chloroform	80	3	NT	NT	<5.0	<5.0	<1.0	<1.0	NT	NT	NS	<5.0	<5.0	<1.0	<1.0	<1.0	<5.0	NT	<5.0	<5.0	<1.0	<1.0	<1.0
Chloromethane	3	270	NT	NT	<5.0	<5.0	<1.0	<1.0	NT	NT	NS	<5.0	<5.0	<1.0	<1.0	<1.0	<5.0	NT	<5.0	<5.0	<1.0	<1.0	<1.0
Cis-1,2-Dichloroethene	70	200	10	6	<5.0	<5.0	5.3	<1.0	130	110	NS	5.5	7.6	17.4	11.5	3.9	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0	2.8
Ethylbenzene	700	29	NT	NT	<5.0	<5.0	<1.0	<1.0	NT	NT	NS	<5.0	<5.0	<1.0	<1.0	<1.0	<5.0	NT	<5.0	<5.0	<1.0	<1.0	<1.0
Isopropylbenzene	5	1,000	NT	NT	<5.0	<5.0	<1.0	<1.0	NT	NT	NS	<5.0	<5.0	<1.0	<1.0	<1.0	<5.0	NT	<5.0	<5.0	<1.0	<1.0	<1.0
Isopropyltoluene	NR	NR	NT	NT	<5.0	<5.0	<1.0	<1.0	NT	NT	NS	<5.0	<5.0	<1.0	<1.0	<1.0	<5.0	NT	<5.0	<5.0	<1.0	<1.0	<1.0
Methylene Chloride	5	450	NT	NT	<5.0	<5.0	<2.0	<2.0	NT	NT	NS	<5.0	<5.0	<2.0	<2.0	<2.0	<5.0	NT	<5.0	<5.0	<2.0	<2.0	<2.0
Naphthalene	20	2.4	NT	NT	<5.0	<5.0	<1.0	<1.0	NT	NT	NS	<5.0	<5.0	<1.0	<1.0	<1.0	<5.0	NT	<5.0	<5.0	<1.0	<1.0	<1.0
Tetrachloroethene	5	98	NT	NT	<5.0	<5.0	<1.0	<1.0	NT	NT	NS	<5.0	<5.0	<1.0	<1.0	<1.0	<5.0	NT	<5.0	<5.0	<1.0	<1.0	<1.0
Toluene	1000	5200	NT	NT	<5.0	<5.0	<1.0	<1.0	NT	NT	NS	<5.0	<5.0	<1.0	<1.0	<1.0	<5.0	NT	<5.0	<5.0	<1.0	<1.0	<1.0
Trans-1,2-Dichloroethene	100	160	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0	NT	<5.0	NS	<5.0	<5.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0
Trichloroethene	5	38	17	11	14	<5.0	4.2	1	59	66	NS	7.1	8.7	<1.0	10.4	6.9	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0	8.5
Vinyl Chloride	2	3.3	<10	<10	<2.0	<2.0	<1.0	<1.0	NT	<10	NS	<5.0	<5.0	<1.0	<1.0	<1.0	<2.0	<10	<2.0	<2.0	<1.0	<1.0	<1.0
Xylenes	10,000	290	NT	NT	<5.0	<5.0	<2.0	<2.0	NT	NT	NS	<5.0	<5.0	<2.0	<2.0	<2.0	<5.0	NT	<5.0	<5.0	<2.0	<2.0	<2.0
Pesticides, ug/L																							
4,4'-DDD	0.1	12	NT	NT	<0.10	<0.10	<0.05	<0.05	NT	NT	NS	<0.10	<0.10	<0.05	<0.05	<0.05	<0.10	NT	0.2	0.42	0.13	<0.05	0.088
4,4'-DDE	0.1	84	NT	NT	<0.05	<0.05	<0.05	<0.05	NT	NT	NS	<0.05	<0.05	<0.05	<0.05	<0.05	NT	NT	0.31	0.23	0.16	<0.05	<0.05
4,4'-DDT	0.1	8.4	NT	NT	<0.05	<0.05	<0.05	<0.05	NT	NT	NS	<0.05	<0.05	<0.05	<0.05	< 0.05	NT	NT	<0.05	<0.05	<0.05	<0.05	<0.05
Alpha-BHC	0.05	0.45	NT	NT	<0.05	<0.05	<0.05	<0.05	NT	NT	NS	<0.05	<0.05	<0.05	<0.05	<0.05	NT	NT	<0.05	<0.05	<0.05	<0.05	<0.05
Beta-BHC	0.05	1.6	NT	NT	<0.05	<0.05	<0.05	<0.05	NT	NT	NS	<0.05	<0.05	<0.05	<0.05	< 0.05	NT	NT	<0.05	<0.05	<0.05	<0.05	<0.05
Delta-BHC	0.05	1.6	NT	NT	<0.05	<0.05	<0.05	<0.05	NT	NT	NS	<0.05	<0.05	<0.05	<0.05	<0.05	NT	NT	<0.05	<0.05	<0.05	<0.05	<0.05
Dieldrin	0.1	0.18	NT	NT	<0.10	<0.10	<0.05	<0.05	NT	NT	NS	<0.10	<0.10	<0.05	<0.05	< 0.05	NT	NT	<0.10	<0.10	<0.05	<0.05	0.16
Endosulfan II	2	610	NT	NT	<0.10	<0.10	<0.05	<0.05	NT	NT	NS	<0.10	<0.10	<0.05	<0.05	<0.05	NT	NT	<0.10	<0.10	<0.05	<0.05	<0.05
Endrin	2	31	NT	NT	<0.05	<0.05	<0.05	<0.05	NT	NT	NS	<0.05	<0.05	<0.05	<0.05	<0.05	NT	NT	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin Ketone	0.1	ND	NT	NT	<0.10	<0.10	<0.05	<0.05	NT	NT	NS	<0.10	<0.10	<0.05	<0.05	< 0.05	NT	NT	<0.10	<0.10	<0.05	<0.05	<0.05
Gamma-BHC	0.2	2.6	NT	NT	<0.05	<0.05	<0.05	<0.05	NT	NT	NS	<0.05	<0.05	<0.05	<0.05	<0.05	NT	NT	<0.05	<0.05	<0.05	<0.05	<0.05
Chlordane	2	8.2	NT	NT	<0.05	<0.05	<0.2	<0.2	NT	NT	NS	<0.05	<0.05	<0.2	<0.2	<0.2	NT	NT	<0.05	<0.05	<0.2	<0.2	<0.2
Toxaphene	5	2.6	NT	NT	<5.0	0.26	<0.2	<0.2	NT	NT	NS	<0.05	<0.05	<0.2	<0.2	<0.2	NT	NT	<0.05	<0.05	<0.2	<0.2	<0.2
Chlorinated Herbicides	]		NT	NT	BRL	NT	NT	NT	NT	NT	NS	BRL	NT	NT	NT	NT	NT	NT	BRL	NT	NT	NT	NT

ug/L - micrograms per liter (parts per billion)

NT - Not tested

Note: Shaded values indicate exceedance of RRS

Samples outlined in red were removed during June

2013 soil remediation

Table 7 - Cumulative Summary of Groundwater Testing Results

Constituent		idential Risk Standards, μg/L				MW-10				y or Groun		MW				MW-12							
Date	Type 3	Type 4	2/19/2002	3/11/2002	1/28/2010	12/31/2013	6/19/014	12/18/2014	6/4/2015	2/19/2002	1/28/2010	12/31/2013	6/18/2014	12/18/2014	6/3/2015	1/28/2010	12/30/2010	6/18/2014	DUP	12/16/2014	6/4/2015		
VOCs, ug/L			1	1		1					1					1							
1,1-Dichloroethane	4,000	46	NT	NT	<5.0	NS	<1.0	<1.0	<1.0	NT	<5.0	NS	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0		
1,1-Dichloroethene	7	523	<5.0	<5.0	<5.0	NS	<1.0	<1.0	<1.0	<5.0	<5.0	NS	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0		
1,2-Dichlorobenzene	600	548	NT	NT	<5.0	NS	<1.0	<1.0	<1.0	NT	<5.0	NS	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0		
1,3-Dichlorobenzene	600	548	NT	NT	<5.0	NS	<1.0	<1.0	<1.0	NT	<5.0	NS	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0		
1,4-Dichlorobenzene	70	519	NT	NT	<5.0	NS	<1.0	<1.0	<1.0	NT	<5.0	NS	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0		
1,2,4-Trichlorobenzene	70	5.79	NT	NT	<5.0	NS	<1.0	<1.0	<1.0	NT	<5.0	NS	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0		
1,1,2-Trichloroethane	5	4.6	NT	NT	<5.0	NS	<1.0	<1.0	<1.0	NT	<5.0	NS	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0		
Benzene	5	8.8	NT	NT	<5.0	NS	<1.0	<1.0	<1.0	NT	<5.0	NS	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0		
Chlorobenzene	100	130	NT	NT	<5.0	NS	<1.0	<1.0	<1.0	NT	<5.0	NS	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0		
Chloroform	80	3	NT	NT	<5.0	NS	<1.0	<1.0	<1.0	NT	<5.0	NS	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0		
Chloromethane	3	270	NT	NT	<5.0	NS	<1.0	<1.0	<1.0	NT	<5.0	NS	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0		
Cis-1,2-Dichloroethene	70	200	<5.0	<5.0	<5.0	NS	<1.0	<1.0	<1.0	<5.0	<5.0	NS	<1.0	6.2	2.3	<5.0	<5.0	2.1	2.4	3.4	2.6		
Ethylbenzene	700	29	NT	NT	<5.0	NS	<1.0	<1.0	<1.0	NT	<5.0	NS	<1.0	<1.0	<1.0	<5.0	8.3	12.4	13.2	<1.0	<1.0		
Isopropylbenzene	5	1,000	NT	NT	<5.0	NS	<1.0	<1.0	<1.0	NT	<5.0	NS	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0		
Isopropyltoluene	NR	NR	NT	NT	<5.0	NS	<1.0	<1.0	<1.0	NT	<5.0	NS	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0		
Methylene Chloride	5	450	NT	NT	<5.0	NS	<2.0	<2.0	<2.0	NT	<5.0	NS	<2.0	<2.0	<2.0	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0		
Naphthalene	20	2.4	NT	NT	<5.0	NS	<1.0	<1.0	<1.0	NT	<5.0	NS	1.0	3.4	2.3	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0		
Tetrachloroethene	5	98	NT	NT	<5.0	NS	<1.0	<1.0	<1.0	NT	<5.0	NS	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0		
Toluene	1000	5200	NT	NT	<5.0	NS	<1.0	<1.0	<1.0	NT	<5.0	NS	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0		
Trans-1,2-Dichloroethene	100	160	<5.0	<5.0	<5.0	NS	<1.0	<1.0	<1.0	<5.0	<5.0	NS	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0		
Trichloroethene	5	38	16	11	<5.0	NS	<1.0	1.0	<1.0	<5.0	<5.0	NS	<1.0	5.7	2.8	<5.0	<5.0	<1.0	<1.0	21.2	17.4		
Vinyl Chloride	2	3.3	<10	<10	<2.0	NS	<1.0	<1.0	<1.0	<10	<2.0	NS	<1.0	<1.0	<1.0	<2.0	<2.0	<1.0	<1.0	<1.0	<1.0		
Xylenes	10,000	290	NT	NT	<5.0	NS	<2.0	<2.0	<2.0	NT	<5.0	NS	<2.0	<2.0	<2.0	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0		
Pesticides, ug/L	1				2.42															0.05			
4,4'-DDD 4,4'-DDE	0.1	12 84	NT NT	NT NT	<0.10 <0.05	NS NS	<0.05 <0.05	<0.05 <0.05	<0.05	NT NT	<0.10 <0.10	NS NS	<0.5	0.54	<0.5 <0.5	<0.10	<0.05 <0.05	<0.05 <0.05	<0.05 <0.05	<0.05 <0.05	<0.05 <0.05		
, and the second				NT		ļ			<0.05			_	<0.5	<0.2		<0.05							
4,4'-DDT Alpha-BHC	0.1	8.4 0.45	NT NT	NT NT	<0.10 <0.05	NS NS	<0.05	<0.05 <0.05	<0.05	NT NT	0.15	NS NS	<0.5	<0.2	<0.5	<0.10	<0.05 <b>0.11</b>	<0.05 <0.05	<0.05 <0.05	<0.05 <b>0.073</b>	<0.05 <b>0.18</b>		
Alpna-BHC Beta-BHC	0.05	1.6	NT NT	NT	<0.05	NS NS	<0.05 <0.05	<0.05	<0.05 <0.05	NT NT	0.33 0.11	NS NS	<b>0.79</b> <0.5	1.0 0.52	<b>1.2</b> <0.5	<b>0.11</b> <0.05	<0.05	<0.05	<0.05	<0.05	<0.05		
Delta-BHC	0.05	1.6	NT NT	NT	<0.05	NS NS	<0.05	<0.05	<0.05	NT NT	0.11	NS NS	<0.5 <b>0.79</b>	1.2	<0.5	<0.05 <b>0.08</b>	<0.05 <b>0.076</b>	<0.05 <b>0.055</b>	<0.05 <b>0.072</b>	<0.05 <b>0.058</b>	<0.05 <b>0.095</b>		
Delta-BHC Dieldrin	0.05	0.18	NT	NT	<0.05	NS NS	<0.05	<0.05	<0.05	NT	0.35	NS NS	1.3	0.72	<0.5	<0.10	<0.10	<0.10	<0.05	<0.05	<0.05		
Endosulfan II	2	610	NT NT	NT	<0.10	NS NS	<0.05	<0.05	<0.05	NT NT	0.72	NS NS	<0.5	<0.2	<0.5	<0.10	<0.10	<0.10	<0.05	<0.05	<0.05		
Endosultan II Endrin	2	31	NT NT	NT NT	<0.10	NS NS	<0.05	<0.05	<0.05 <0.05	NT NT	<0.05	NS NS	<0.5 <0.5	<0.2	<0.5 <0.5	<0.10	<0.10	<0.10	<0.05	<0.05 <0.05	<0.05		
	0.1	ND	NT NT	NT NT	<0.05	NS NS	<0.05	<0.05	<0.05	NT NT	<0.05 <b>2.3</b>	NS NS		<0.2 <b>2.4</b>	<0.5 <b>3.4</b>	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		
Endrin Ketone Gamma-BHC	0.1	2.6	NT NT	NT NT	<0.10	NS NS	<0.05	<0.05	<0.05	NT NT	0.22	NS NS	<b>3</b> <0.5	0.42	0.56	<0.10 <b>0.25</b>	<0.10 <b>0.29</b>	<0.10 <b>0.13</b>	<0.05 <b>0.16</b>	<0.05 <b>0.2</b>	<0.05 <b>0.44</b>		
Chlordane	2	8.2	NT NT	NT	<0.05	NS NS	<0.05	<0.05	<0.05	NT NT	<0.05	NS NS	<0.5	<0.8	<b>0.56</b> <2.0	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2		
Toxaphene	5	2.6	NT NT	NT	<5.0	NS NS	<0.2	<0.2	<0.2	NT	<0.05 <5.0	NS NS	<2.0	<0.8	<2.0	<0.05 <5.0	<0.05	<0.05	<0.2	<0.2	<0.2		
Chlorinated Herbicides	J	2.0	NT	NT	BRL	NS	NT	VI.2	VT.2	NT	BRL	NS NS	<2.0 NT	VT.	<2.U	S5.0 BRL	RRL	<0.05 NT	NT	VI.2	NT		
Official ateu Herbicides	<u> </u>		INI	INI	DIVE	NO	INI	INI	INI	INI	DIVL	INO	INI	111		DIVL	DIVL	141	INI	141	INI		

ug/L - micrograms per liter (parts per billion)

NT - Not tested

Note: Shaded values indicate exceedance of RRS Samples outlined in red were removed during June

2013 soil remediation

Table 7 - Cumulative Summary of Groundwater Testing Results

Constituent		dential Risk tandards, μg/L		MW-13						MW		3		MW-15		MW-16			MW-17		
Date	Type 3	Type 4	1/28/2010	12/30/2013	6/18/2014	12/17/2014	DUP	6/4/2015	6/19/2014	12/18/2014	DUP	6/4/2015	6/18/2014	12/17/2014	6/3/2015	6/18/2014	12/17/2014	6/5/2015	6/18/2014	12/16/2014	6/5/2015
VOCs, ug/L			1		•	, ,				, ,		1	1	,		1	1		1		
1,1-Dichloroethane	4,000	46	19	7.6	<20	<20	<50	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<5.0	<20
1,1-Dichloroethene	7	523	11	5.3	<20	<20	<50	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<5.0	<20
1,2-Dichlorobenzene	600	548	12	7.8	<20	<20	<50	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<5.0	<20
1,3-Dichlorobenzene	600	548	<5.0	<5.0	<20	<20	<50	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<5.0	<20
1,4-Dichlorobenzene	70	519	50	42.4	47	41.1	<50	56.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	5.9	2.1	2.2	<5.0	<5.0	<20
1,2,4-Trichlorobenzene	70	5.79	51	22	32	<20	<50	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<5.0	<20
1,1,2-Trichloroethane	5	4.6	<5.0	<5.0	<20	<20	<50	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<5.0	<20
Benzene	5	8.8	<5.0	14.6	<20	<20	<50	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	10	3.7	3.2	<5.0	<5.0	<20
Chlorobenzene	100	130	65	44.7	48.1	36.4	<50	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	45.3	11.7	11.7	<5.0	<5.0	<20
Chloroform	80	3	<5.0	<5.0	<20	<20	<20	<20	<1.0	<1.0	<1.0	<1.0	1.1	<1.0	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20
Chloromethane	3	270	<5.0	<5.0	<20	<20	<20	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20
Cis-1,2-Dichloroethene	70	200	2,900	1,260	1,120	1,710	1,850	1,030	1.67	3	2.1	2.5	1.1	62	50.9	1.4	<1.0	2.5	803	993	1,010
Ethylbenzene	700	29	<5.0	<5.0	<20	<20	<50	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	657	1.7	<1.0	<5.0	<5.0	<20
Isopropylbenzene	5	1,000	7.3	5.2	<20	<20	<50	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<5.0	<20
Isopropyltoluene	NR	NR	<5.0	<5.0	<20	<20	<50	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<5.0	<20
Methylene Chloride	5	450	5.4	<5.0	<40	<40	<100	<100	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<5.0	<5.0	53.5
Naphthalene	20	2.4	<5.0	<5.0	<20	<20	<50	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	174	2.0	<1.0	6.1	5.4	<20
Tetrachloroethene	5	98	19	11.4	<20	<20	<50	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<5.0	<20
Toluene	1000	5200	<5.0	<5.0	<20	<20	<50	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	4.2	<1.0	<1.0	<5.0	<5.0	<20
Trans-1,2-Dichloroethene	100	160	6.0	32.4	<20	<20	<50	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<5.0	<20
Trichloroethene	5	38	8,200	4,320	2,710	4,770	4,460	2,580	<1.0	4	2.8	1.1	<1.0	62.8	58.8	<5.0	<1.0	5.6	926	2,340	976
Vinyl Chloride	2	3.3	3,300	933	657	516	588	576	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	4.1	46.9	12.5	6.6	33	20.1	22.6
Xylenes	10,000	290	9.8	<10	<20	<20	<50	<50	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	928	1.1	<1.0	<10.0	<10.0	<20.0
Pesticides, ug/L																		,		,	
4,4'-DDD	0.1	12	2.9	4.2	3.8	3.2	3.9	1.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.25	<0.25	1.4	<0.10	<0.05	<0.05
4,4'-DDE	0.1	84	<0.5	<1.0	2.3	<1.0	<1.0	<1.0	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.25	<0.25	1	<0.10	<0.05	<0.05
4,4'-DDT	0.1	8.4	2.4	8.4	7.6	6.9	8.4	4	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.25	<0.25	<1.0	<0.10	0.13	<0.05
Alpha-BHC	0.05	0.45	<0.05	<1.0	<1.0	<1.0	<1.0	<1.0	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.25	<0.25	<1.0	0.21	0.35	0.41
Beta-BHC	0.05	1.6	3.7	4.3	4.2	3.7	4.4	2.9	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.48	0.48	1.9	1.0	1.2	0.75
Delta-BHC	0.05	1.6	2.3	2.5	1.9	1.9	2.2	1.0	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	2.4	1.8	5.4	0.45	0.47	0.52
Dieldrin	0.1	0.18	<0.05	<1.0	<1.0	<1.0	<1.0	<1.0	< 0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.25	<0.25	<1.0	0.22	0.17	< 0.05
Endosulfan II	2	610	<0.05	<1.0	<1.0	<1.0	<1.0	<1.0	< 0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.25	<0.25	<1.0	<0.10	<0.10	<0.10
Endrin	2	31	7.3	8.0	6.0	4.5	5.6	3.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.25	<0.25	<1.0	0.28	0.4	<0.05
Endrin Ketone	0.1	ND	3.3	4.9	4.0	4.3	5.1	2.8	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.25	<0.25	<1.0	0.26	0.65	0.29
Gamma-BHC	0.2	2.6	2.0	1.8	1.5	1.5	1.5	<1.0	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.25	<0.25	<1.0	<0.10	0.078	0.066
Chlordane	2	8.2	<0.05	<4.0	<4.0	<4.0	<4.0	<4.0	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1.0	<1.0	<4.0	<0.4	<0.2	<0.2
Toxaphene	5	2.6	44	<4.0	<4.0	<4.0	<4.0	<4.0	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1.0	<1.0	<4.0	<0.4	<0.2	<0.2
Chlorinated Herbicides			BRL	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	BRL	BRL	NT	NT	NT	NT

ug/L - micrograms per liter (parts per billion)

NT - Not tested

Note: Shaded values indicate exceedance of RRS Samples outlined in red were removed during June

2013 soil remediation

Table 7 - Cumulative Summary of Groundwater Testing Results

						1				Groundwa		· · · · · · · · · · · · · · · · · · ·								
Constituent		dential Risk andards, μg/L		MW-18			MW	<b>/</b> -19		MW-20	PZ-2								SW-1	SW-2
Date	Type 3	Type 4	6/19/2014	12/17/2014	6/4/2015	6/19/2014	12/18/2014	6/4/2015	DUP	8/21/2018	8/3/2001	9/25/2001	11/29/2001	12/10/2009	12/30/2013	6/18/2014	12/17/2014	6/5/2015	12/11/2009	12/11/2009
VOCs, ug/L					ı		1					ı			II.	l				ı
1,1-Dichloroethane	4,000	46	4	<50	<50	<1.0	<5.0	<25	<25	<1.0	NT	NT	NT	<5.0	<5.0	<100	<100	<250	<5.0	<5.0
1,1-Dichloroethene	7	523	1.7	<50	<50	<1.0	<5.0	<25	<25	<1.0	NT	NT	<1,000	14	9.7	<100	<100	<250	<5.0	<5.0
1,2-Dichlorobenzene	600	548	3.2	<50	<50	<1.0	<5.0	<25	<25	<1.0	NT	NT	NT	<5.0	<5.0	<100	<100	<250	<5.0	<5.0
1,3-Dichlorobenzene	600	548	1	<50	<50	<1.0	<5.0	<25	<25	<1.0	NT	NT	NT	<5.0	<5.0	<100	<100	<250	<5.0	<5.0
1,4-Dichlorobenzene	70	519	11.5	<50	<50	<1.0	<5.0	<25	<25	<1.0	NT	NT	NT	<5.0	<5.0	<100	<100	<250	<5.0	<5.0
1,2,4-Trichlorobenzene	70	5.79	7.7	<50	<50	<1.0	<5.0	<25	<25	<1.0	NT	NT	NT	<5.0	<5.0	<100	<100	<250	<5.0	<5.0
1,1,2-Trichloroethane	5	4.6	1.6	<50	<50	<1.0	<5.0	<25	<25	<1.0	NT	NT	NT	21	9.9	<100	<100	<250	<5.0	<5.0
Benzene	5	8.8	4.1	<50	<50	<1.0	6.3	<25	<25	<1.0	NT	NT	NT	<5.0	<5.0	<100	<100	<250	<5.0	<5.0
Chlorobenzene	100	130	15.4	<50	<50	<1.0	14.1	<25	<25	<1.0	NT	NT	NT	6.9	<5.0	<100	<100	<250	<5.0	<5.0
Chloroform	80	3	<1.0	<50	<50	<1.0	<5.0	<25	<25	<1.0	NT	NT	NT	<5.0	<5.0	<100	<100	<250	<5.0	<5.0
Chloromethane	3	270	<1.0	<50	<50	<1.0	<5.0	<25	<25	<1.0	NT	NT	NT	<5.0	<5.0	<100	<100	<250	<5.0	<5.0
Cis-1,2-Dichloroethene	70	200	2,530	1,710	1,660	127	205	125	116	<1.0	NT	NT	20,000	8,000	3,660	3,340	5,380	7,280	<5.0	<5.0
Ethylbenzene	700	29	<1.0	<50	<50	311	2,330	<25	<25	<1.0	NT	NT	NT	<5.0	<5.0	<100	<100	<250	<5.0	<5.0
Isopropylbenzene	5	1,000	<1.0	<50	<50	<1.0	<5.0	<25	<25	<1.0	NT	NT	NT	<5.0	<5.0	<100	<100	<250	<5.0	<5.0
Isopropyltoluene	NR	NR	<1.0	<50	<50	<1.0	6.2	<25	<25	<1.0	NT	NT	NT	<5.0	<5.0	<100	<100	<250	<5.0	<5.0
Methylene Chloride	5	450	5.4	<250	<250	<1.0	<5.0	<25	<25	<2.0	NT	NT	NT	<5.0	<5.0	<100	<100	592	<5.0	<5.0
Naphthalene	20	2.4	3.5	5.4	<50	10	63.8	<25	<25	<1.0	NT	NT	NT	<5.0	<5.0	<100	<100	<250	<5.0	<5.0
Tetrachloroethene	5	98	3.5	<50	<50	<1.0	<5.0	<25	<25	<1.0	NT	NT	NT	130	27.8	<100	<100	<250	<5.0	<5.0
Toluene	1000	5200	<1.0	<50	<50	12.1	50.6	<25	<25	<1.0	NT	NT	NT	<5.0	<5.0	<100	<100	<250	<5.0	<5.0
Trans-1,2-Dichloroethene	100	160	3.6	<50	<50	<5.0	<5.0	<25	<25	<1.0	NT	NT	<1,000	17	80.3	<100	<100	<250	<5.0	<5.0
Trichloroethene	5	38	3,220	3,590	3,010	62.3	<5.0	<25	<25	<1.0	7,200	7,800	3,300	57,000	18,700	10,300	41,600	46,300	<5.0	<5.0
Vinyl Chloride	2	3.3	181	838	680	5.1	113	<25	<25	<1.0	NT	NT	6,800	2,200	<1,000	305	1,220	1,620	<2.0	<2.0
Xylenes	10,000	290	2.4	<100	<100	2,120	10,900	67.1	64.2	<2.0	NT	NT	NT	5.4	<5.0	<200	<100	<250	<5.0	<5.0
Pesticides, ug/L																				
4,4'-DDD	0.1	12	<0.25	<0.2	<0.05	4.9	7.4	1.5	2.1	<0.10	NT	NT	NT	0.13	0.18	1.7	2.2	0.12	<0.10	<0.10
4,4'-DDE	0.1	84	<0.25	<0.2	<0.05	<1.0	<1.0	<1.0	<1.0	<0.05	NT	NT	NT	< 0.05	0.13	<0.2	<0.25	< 0.05	<0.10	<0.10
4,4'-DDT	0.1	8.4	<0.25	<0.2	<0.05	1.6	1.6	<1.0	<1.0	<0.10	NT	NT	NT	<0.1	<0.05	0.5	0.55	<0.05	<0.10	<0.10
Alpha-BHC	0.05	0.45	0.4	0.23	<0.05	<1.0	4	<1.0	<1.0	<0.05	NT	NT	NT	0.53	0.2	0.33	0.35	0.44	<0.10	<0.10
Beta-BHC	0.05	1.6	1.9	0.45	0.14	1.6	4.9	1.4	1.5	<0.05	NT	NT	NT	0.71	0.5	0.41	0.52	0.37	<0.05	<0.05
Delta-BHC	0.05	1.6	1.2	0.45	0.16	1.3	8.3	1.0	<1.0	<0.05	NT	NT	NT	1.1	0.61	0.75	0.78	0.71	<0.10	<0.10
Dieldrin	0.1	0.18	<0.25	<0.2	<0.05	5.4	4.4	7.9	7.0	<0.10	NT	NT	NT	<0.1	<0.05	0.52	0.43	0.15	<0.10	<0.10
Endosulfan II	2	610	<0.25	<0.2	<0.05	<1.0	<1.0	2.8	2.5	<0.10	NT	NT	NT	<0.1	<0.05	<0.2	<0.25	<0.05	<0.10	<0.10
Endrin	2	31	1.2	0.51	<0.05	5.1	2.6	5.8	5.4	<0.05	NT	NT	NT	<0.1	<0.05	0.28	<0.25	<0.05	<0.10	<0.10
Endrin Ketone	0.1	ND	1.8	0.73	0.13	4.4	5.3	6.2	5.6	<0.10	NT	NT	NT	1.3	0.1	0.54	0.44	0.51	<0.10	<0.10
Gamma-BHC	0.2	2.6	1.1	0.3	<0.05	1.2	4.4	<1.0	<1.0	<0.05	NT	NT	NT	0.83	0.24	0.44	0.41	0.56	<0.05	<0.05
Chlordane	2	8.2	<1.0	<0.8	0.23	<4.0	<4.0	<4.0	<4.0	<0.05	NT	NT	NT	<0.1	<5.0	<5.0	<1.0	<0.05	<0.05	<0.05
Toxaphene	5	2.6	<1.0	<0.8	2.6	<4.0	<4.0	<4.0	<4.0	<2.0	NT	NT	NT	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<5.0
Chlorinated Herbicides			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	BRL	NT	NT	NT	NT	BRL	BRL

ug/L - micrograms per liter (parts per billion)

NT - Not tested

Note: Shaded values indicate exceedance of RRS

Samples outlined in red were removed during June

2013 soil remediation

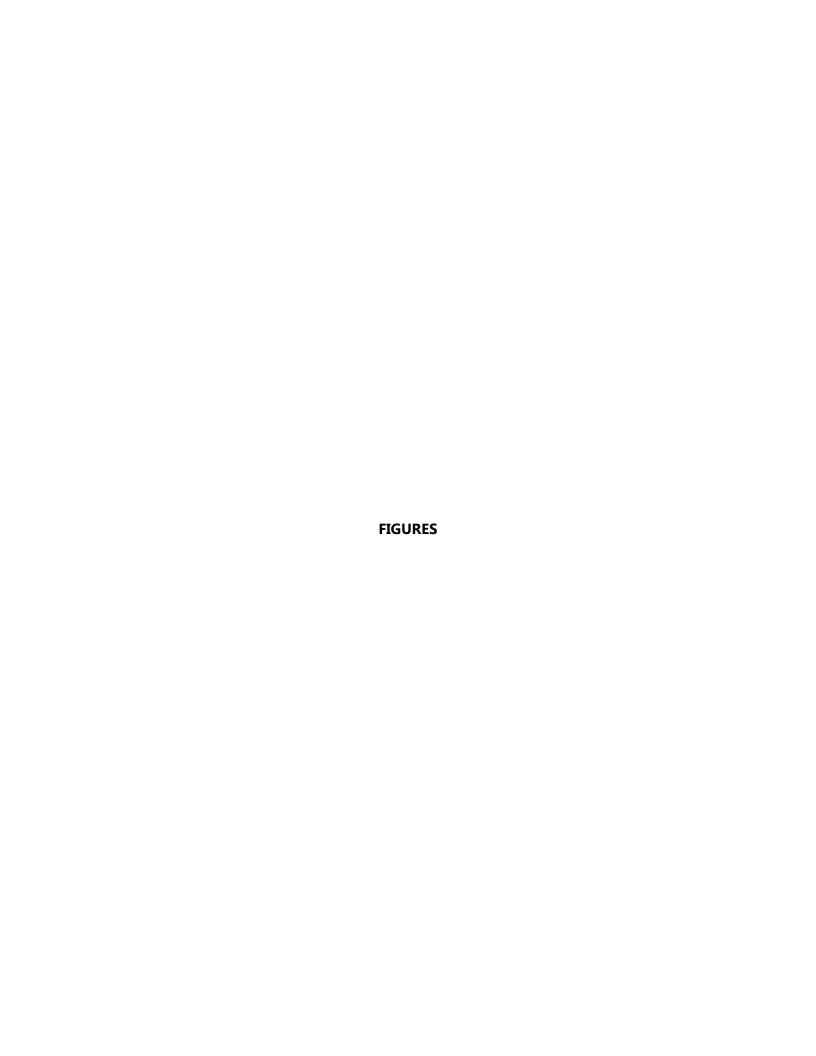
**Table 8 - Well Construction and Water Level Data** 

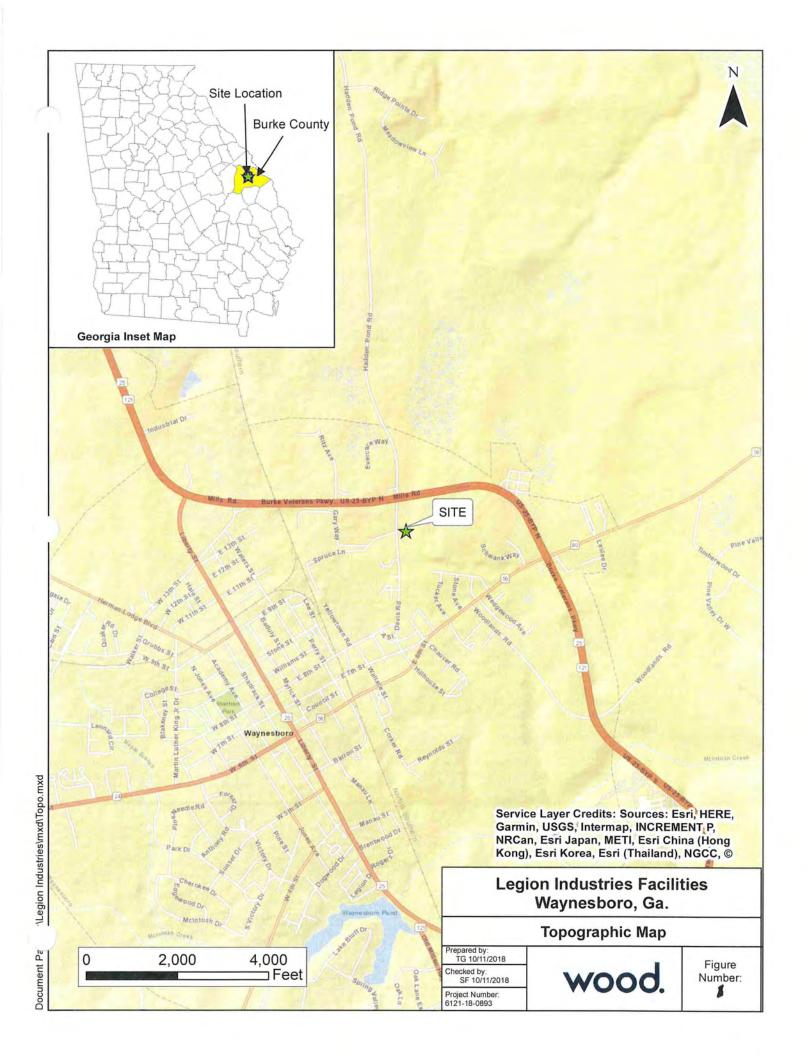
Well No.	Top of Casing Elevation, Ft.	Screened Interval, Ft.	Depth to Water, Ft.	Groundwater Elevation, Ft.
MW-1	297.51	3 - 8	5.4	292.11
MW-2 (I)	298.47	16 - 21	11.31	287.16
MW-3	294.85	7 - 12	7.61	287.14
MW-4 (deep)	298.33	56 - 66	31.25	267.08
MW-5	302.92	3 - 13	10.6	292.32
MW-6	299.16	3 - 13	7.52	291.64
MW-7	294.54	3- 13	2.94	291.6
MW-8 (destroyed)	NA	NA	NA	NA
MW-9	294.26	3 - 13	8.38	285.88
MW-10	301.04	15 – 25	12.65	288.39
MW-11	299.86	6 - 16	8.29	291.57
MW-12 (deep)	299.89	54 - 64	32.79	267.1
MW-13	298.64	3 -13	6.15	292.39
MW-14 (I)	298.99	17 - 22	10.25	288.74
MW-15	298.79	3 - 8	6.82	291.97
MW-16	297.25	3 - 8	5.08	292.17
MW-17 (I)	297.83	20 - 25	8.53	291.3
MW-18 (I)	298.71	20 - 25	10.42	288.29
MW-19	297.12	5 - 10	3.51	294.61
MW-20	290.37	2 - 12	5.35	285.02
PZ-2 (I)	298.82	30 - 35	7.7	291.12
PZ-6 (I) (destroyed	295.06	17 - 22	NA	NA
PZ-4 (I) (destroyed)	295.06	17 - 22	NA	NA
PZ-5 (I) (destroyed)	293.54	17 - 22	NA	NA

<sup>(</sup>I) – Intermediate depth well screen

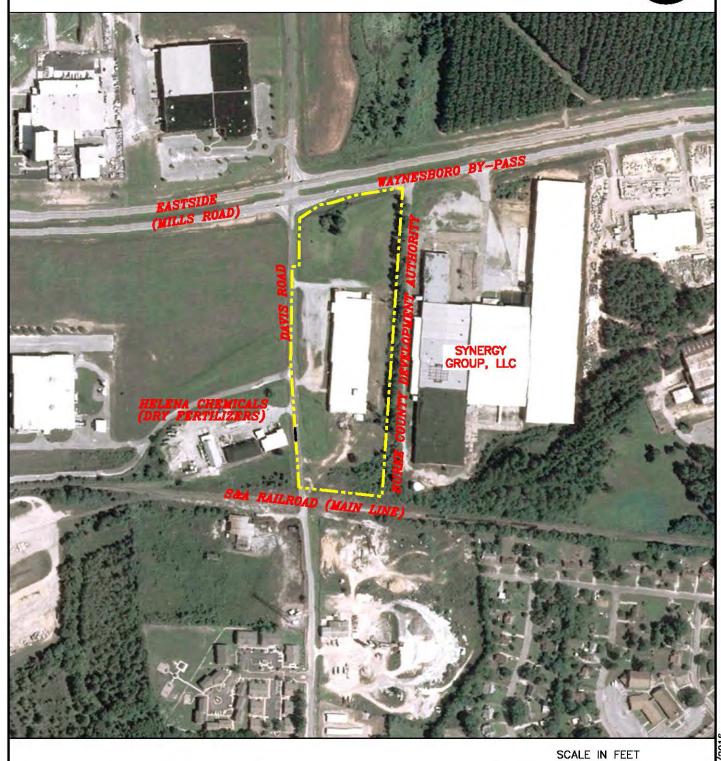
Monitoring wells MW-1 through MW-11 and Piezometers PZ-1 through PZ-6 were surveyed by Steve Bargeron and Associates, Georgia Registered Land Surveyor. Monitoring wells MW-12 through MW-20 were surveyed by Wood Personnel.

Table 9 - Summary of Soil Vapor Testing Results												
Sample De		SS-1	SS-2	SS-3	SS-4	SS-5						
Dept	h, ft.	1	1	1	1	1						
Da	ate	8/10/2018	8/10/2018	8/10/2018	8/10/2018	8/10/2018						
VOCs, μg/m³				•								
Benz	zene	<3.2	6.3	34	<3.2	<3.2						
2-Buta	anone	42	73	<30	<30	94						
Chlore	oform	15	130	<4.9	<4.9	<4.9						
1,1-Dichlo	roethane	5.5	4.6	<4.1	<4.1	<4.1						
cis-1,2-Dich	nloroethene	<4.0	750	<4.0	<4.0	<4.0						
Ethylbe	enzene	11	8.7	8.5	8.7	23						
4-Ethylt	toluene	<5.0	<5.0	<5.0	<5.0	5.5						
2-Hexa	anone	<8.3	10	<8.3	<8.3	13						
4-Methyl-2-	pentanone	10	24	14	53	45						
Tetrachlo	roethene	<6.9	34	39	120	53						
Tolu	ene	170	39	42	100	560						
1,1,1-Trich	loroethane	<5.5	7.2	<5.5	21	<5.5						
Trichlor	oethene	200	520	<5.5	<5.3	<5.3						
1,2,4-Trimet	thylbenzene	12	20	13	15	23						
1,3,5-Trimet	thylbenzene	<5.0	<5.0	<5.0	<5.0	8.1						
Vinyl C	hloride	<2.6	11	<2.6	<2.6	<2.6						
m,p-Xy	ylenes	69	40	48	58	100						
o-Xyl	enes	27	18	18	24	36						
Radon, pCi/L	Indoor Air	0.12	NT	NT	NT	0.05						
Nadon, poi/L	Sub-Slab	1216	NT	NT	NT	750						









SOURCE: USDA NRCS NATIONAL AERIAL IMAGERY PROJECT (NAIP 2009)SALT LAKE CITY UTAH, USGS SEAMLESS DATA DISTRIBUTION

LEGION INDUSTRIES **FACILITIES** WAYNESBORO, GA

**Environment &** Infrastructure Solutions, Inc.

1075 BIG SHANTY ROAD, NW, SUITE 100 KENNESAW, GEORGIA 30144 (770) 421-3400

SITE AND VICINITY MAP

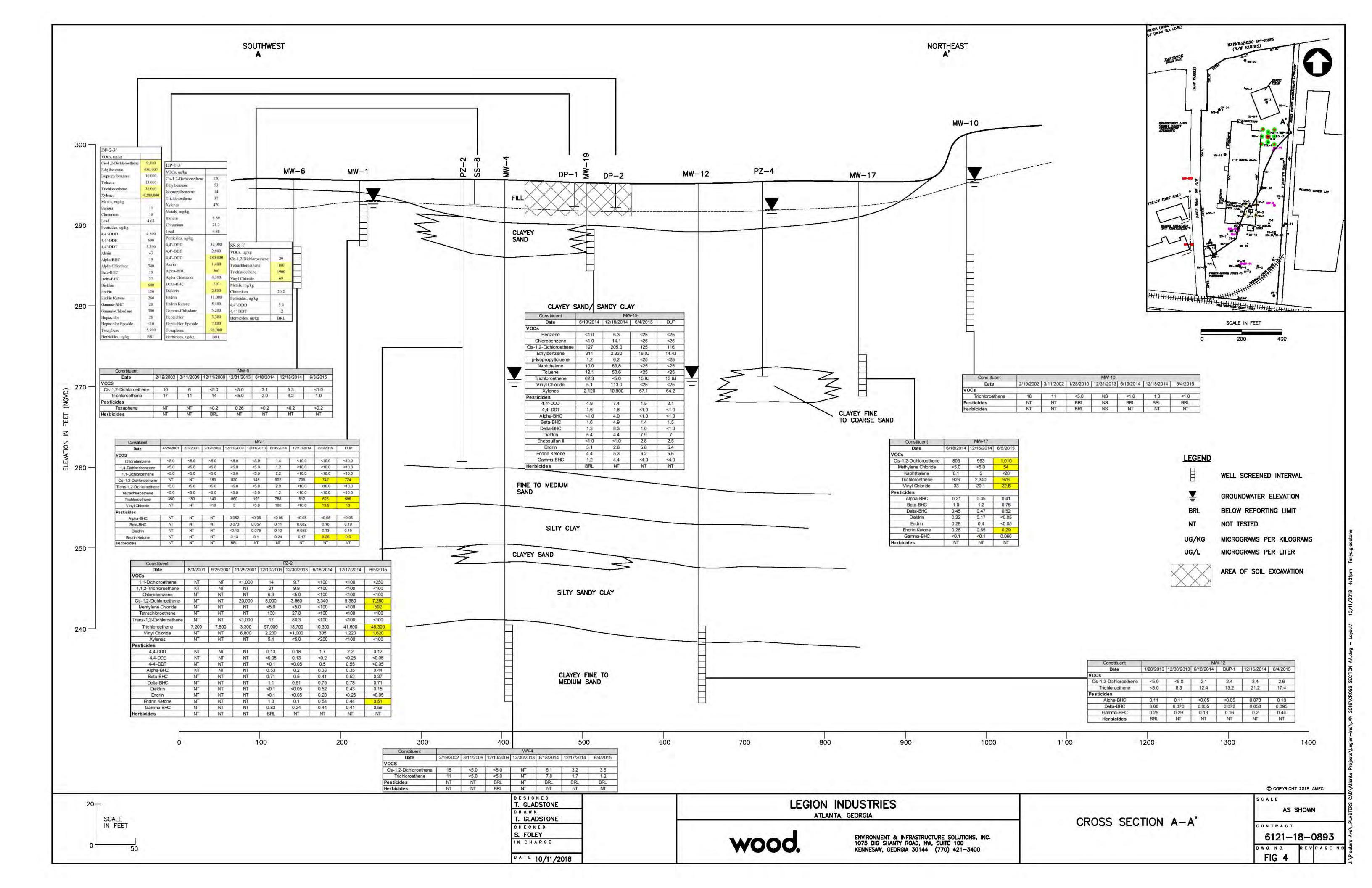
400

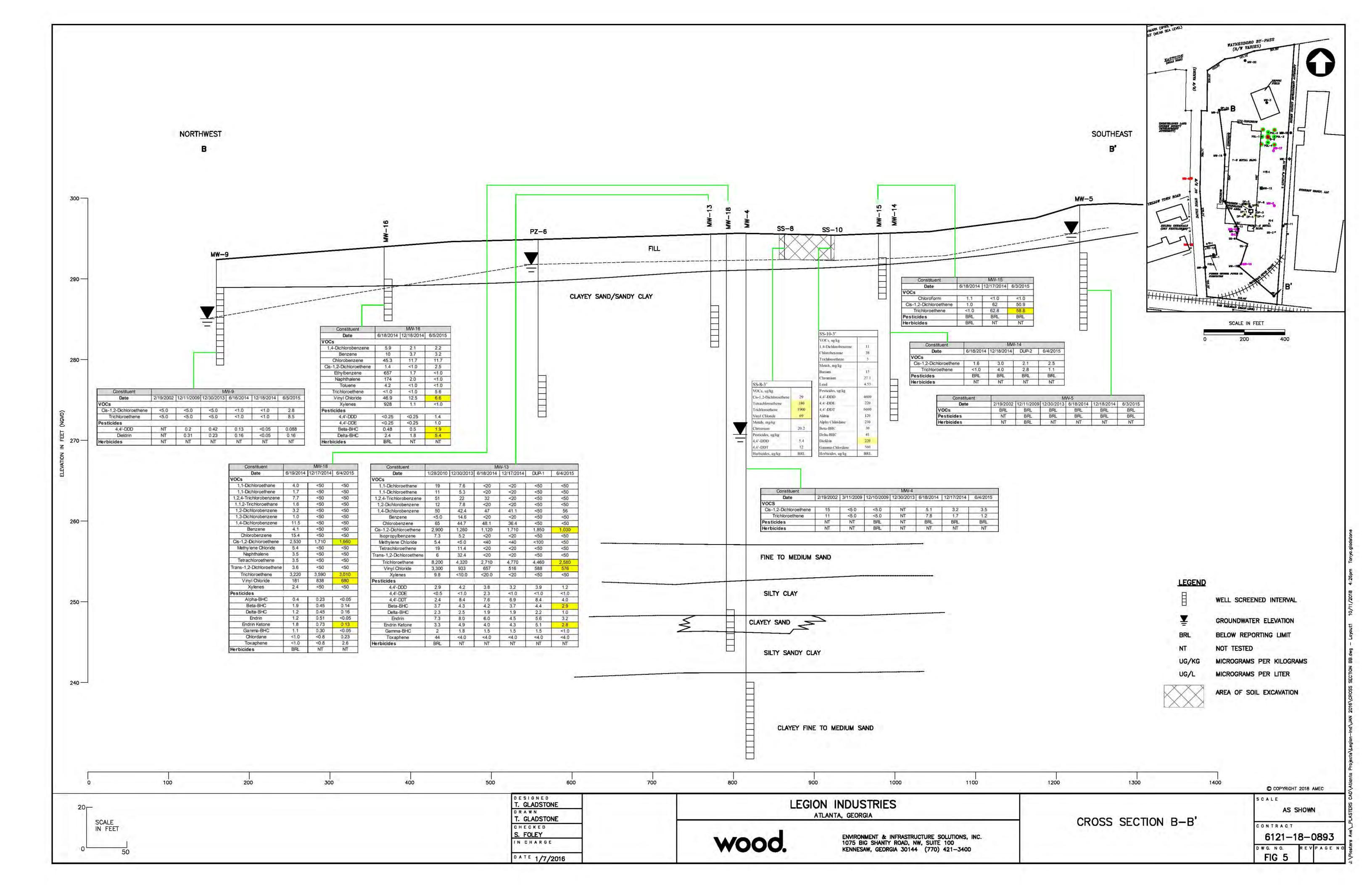
JOB NO.6121-18-0893

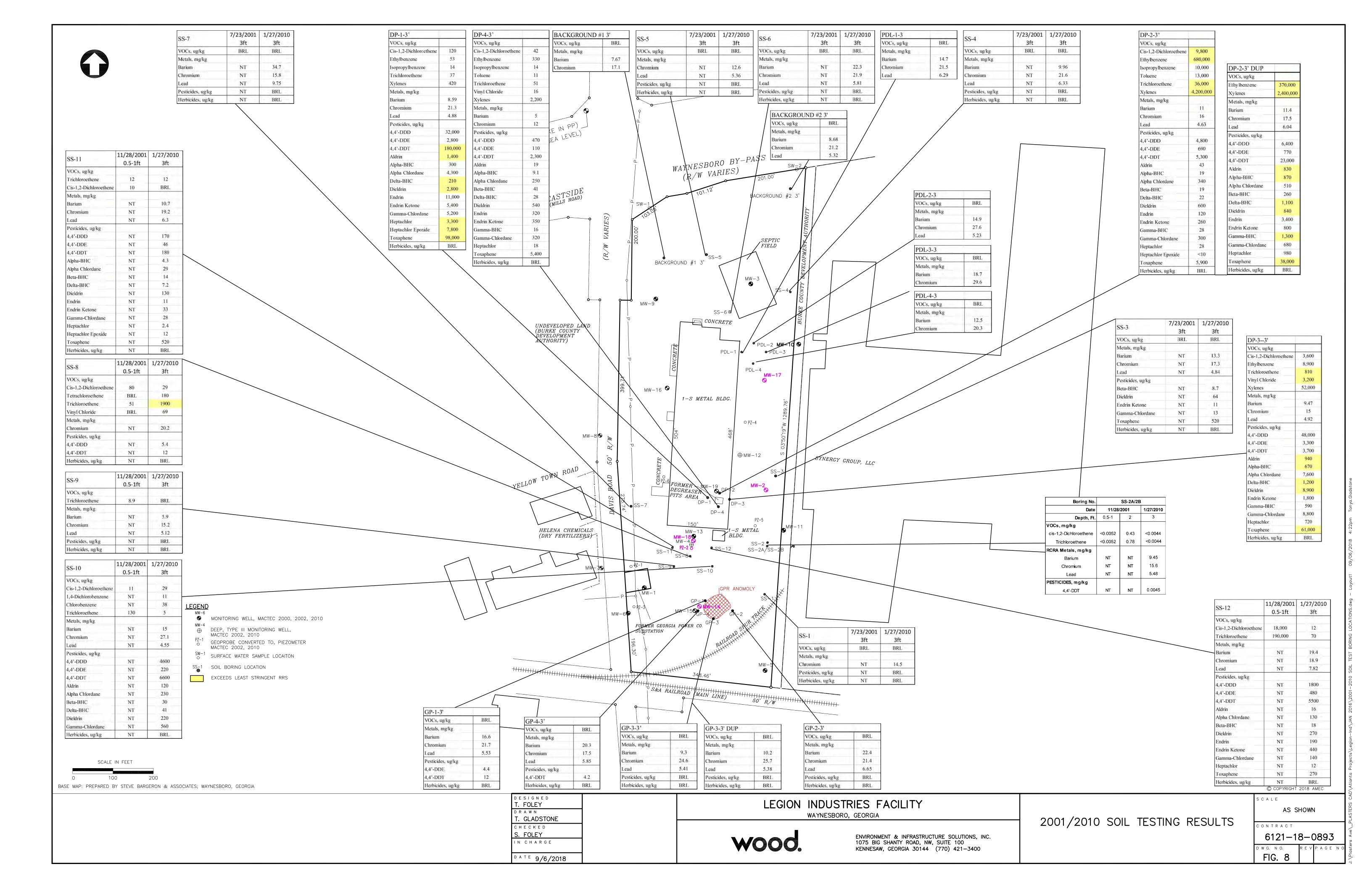
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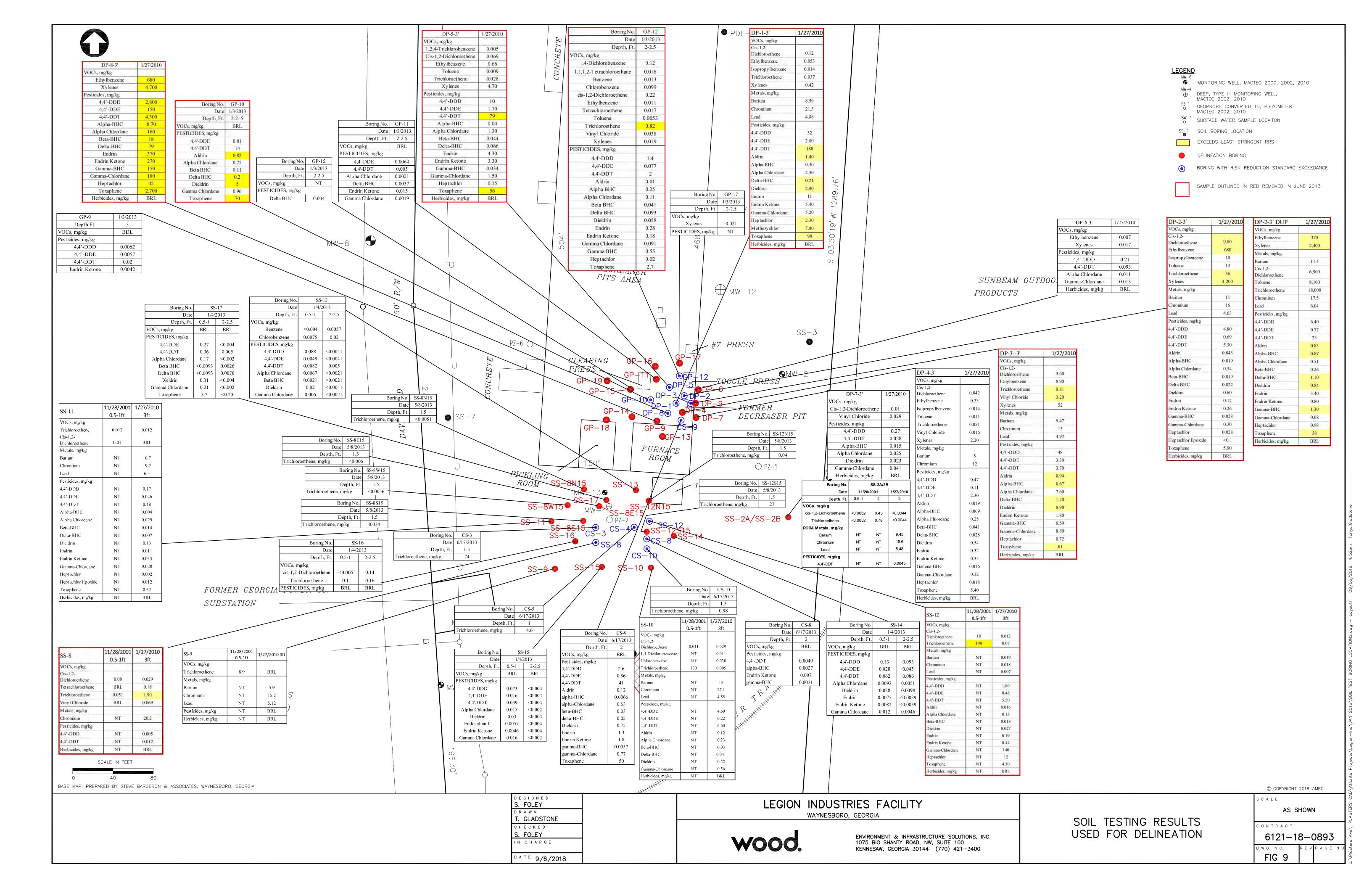
FIGURE 2

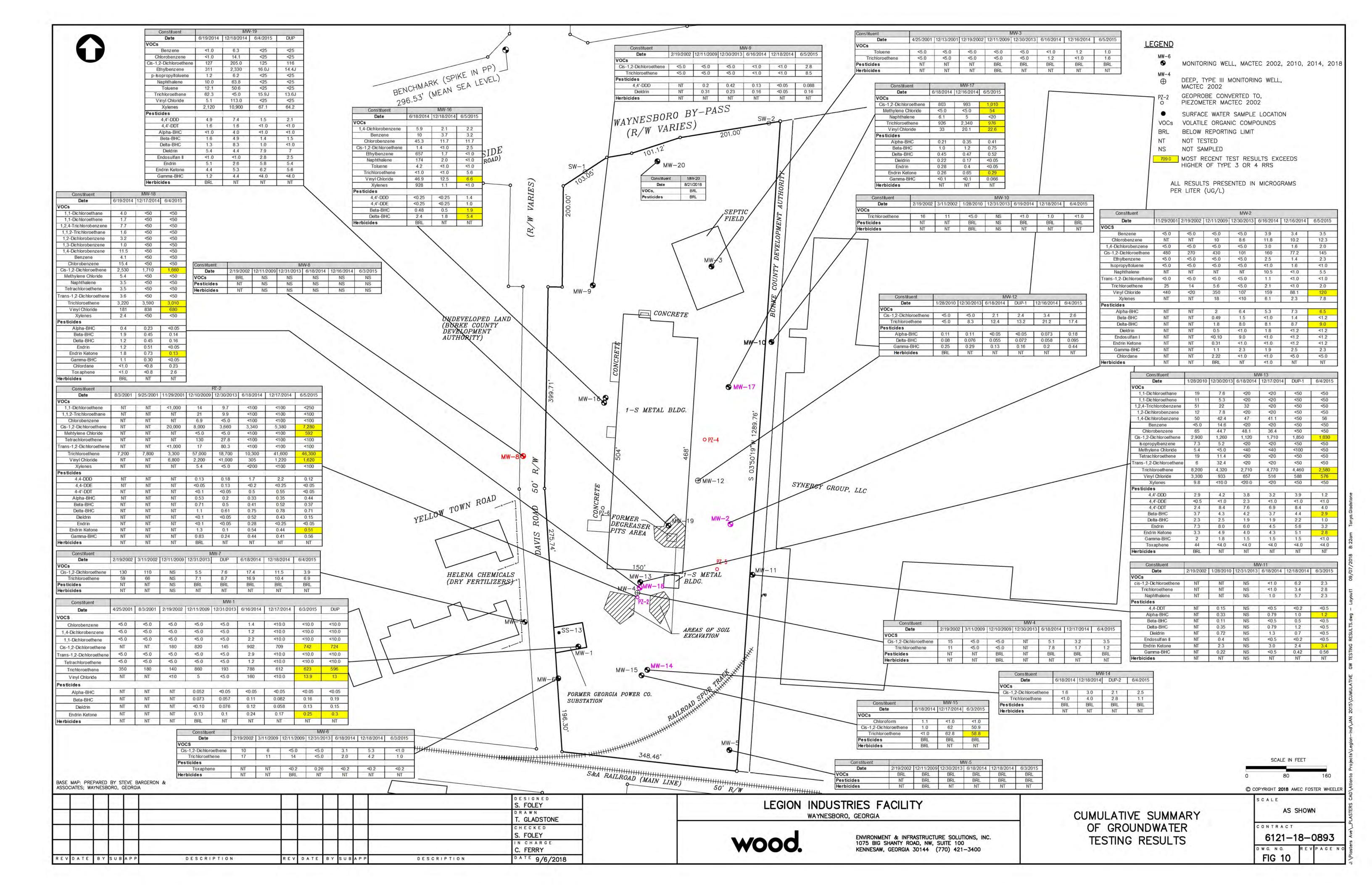
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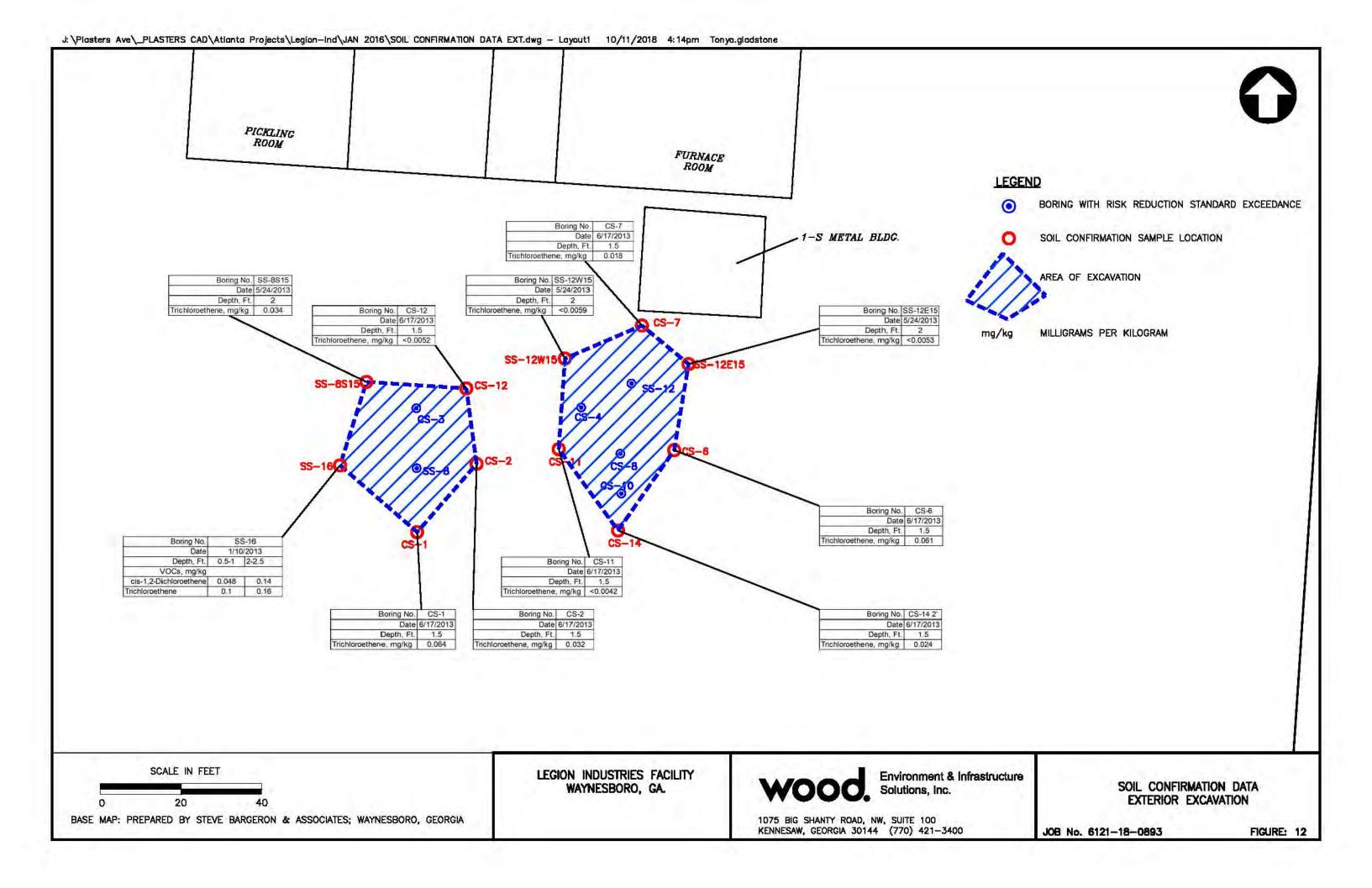






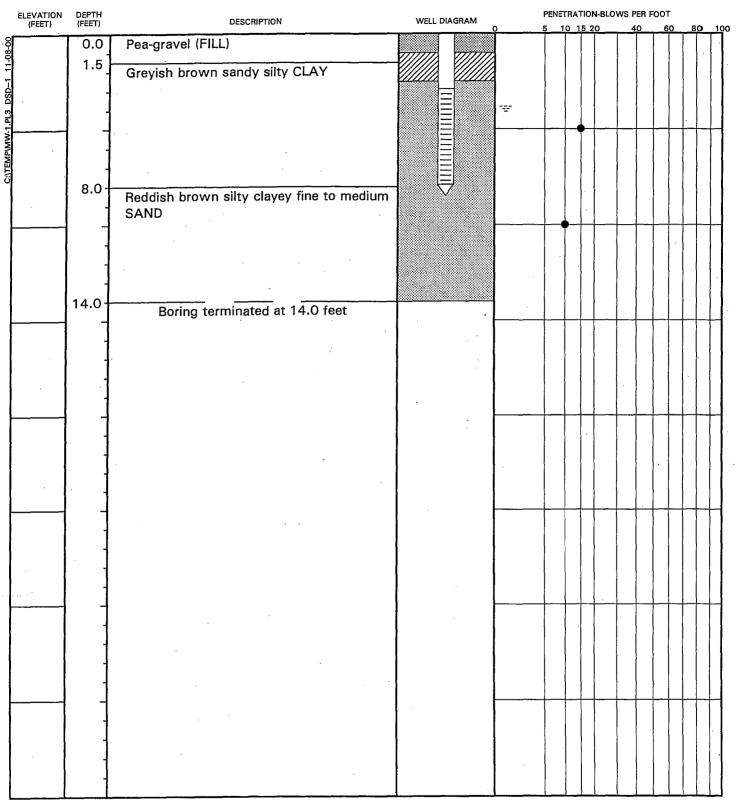






APPENDIX A LABORATORY DATA

APPENDIX B
BORING LOGS



REMARKS:
1. Boring installed using 8 3/4-inch O.D. hollow-stem augers.

2. Well materials: 5-foot length of 2-inch I.D.

PVC well screen attached to 2-inch PVC

3. Drilling water level of 3.95 feet bgs measured on 11/1/00.

DRILLED BY LOGGED BY CHECKED BY

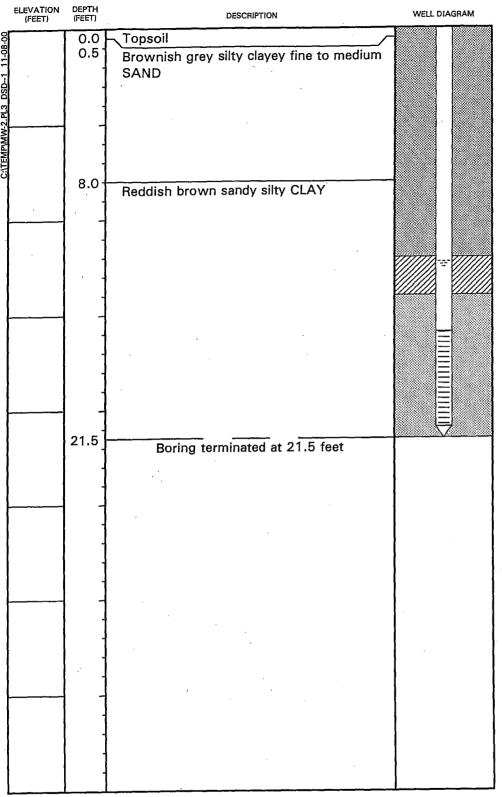
DSD MJF

RP (LAW) BORING NUMBER DATE STARTED DATE COMPLETED JOB NUMBER

MW-1 10/31/00 11/1/00 12000-0-2129



ENGINEERING AND ENVIRONMENTAL SERVICES



REMARKS:
1. Boring installed using 8 3/4-inch O.D.
hollow-stem augers.

2. Well materials: 5-foot length of 2-inch I.D. PVC well screen attached to 2-inch PVC riser.

3. Drilling water level of 12.37 feet bgs measured on 11/1/00.

DRILLED BY LOGGED BY CHECKED BY MJF

DSD

RP (LAW) BORING NUMBER **DATE STARTED** DATE COMPLETED

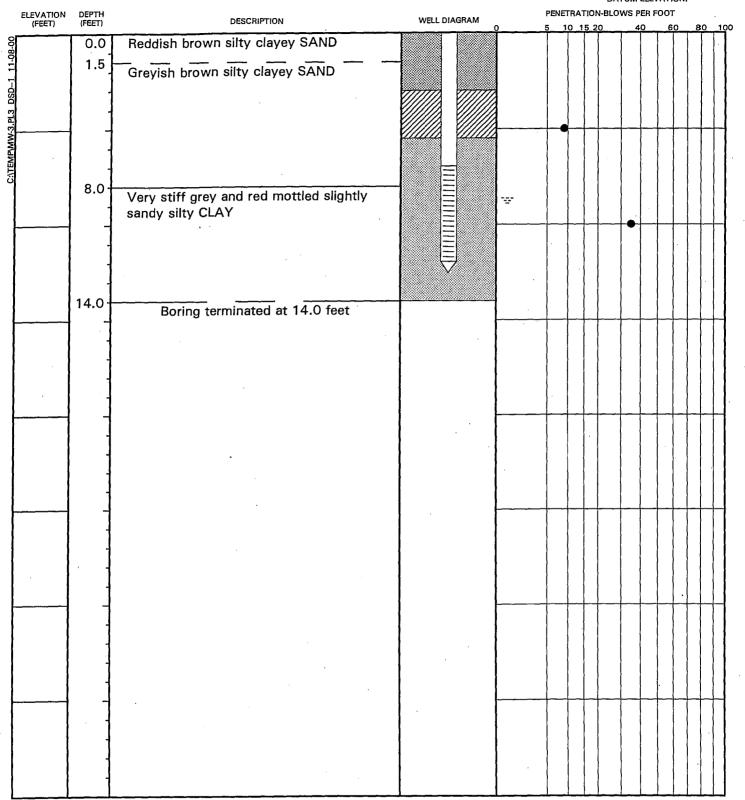
JOB NUMBER

MW-2 10/31/00 11/1/00 12000-0-2129



ENGINEERING AND ENVIRONMENTAL SERVICES

HEIGHT OF RISER: DATUM ELEVATION:



REMARKS:

1. Boring installed using 8 3/4-inch O.D.
hollow-stem augers.

2. Well materials: 5-foot length of 2-inch I.D. PVC well screen attached to 2-inch PVC riser.

3. Drilling water level of 8.76 feet bgs measured on 11/1/00.

DRILLED BY LOGGED BY

DSD CHECKED BY MJF

RP (LAW) BORING NUMBER DATE STARTED

DATE COMPLETED JOB NUMBER

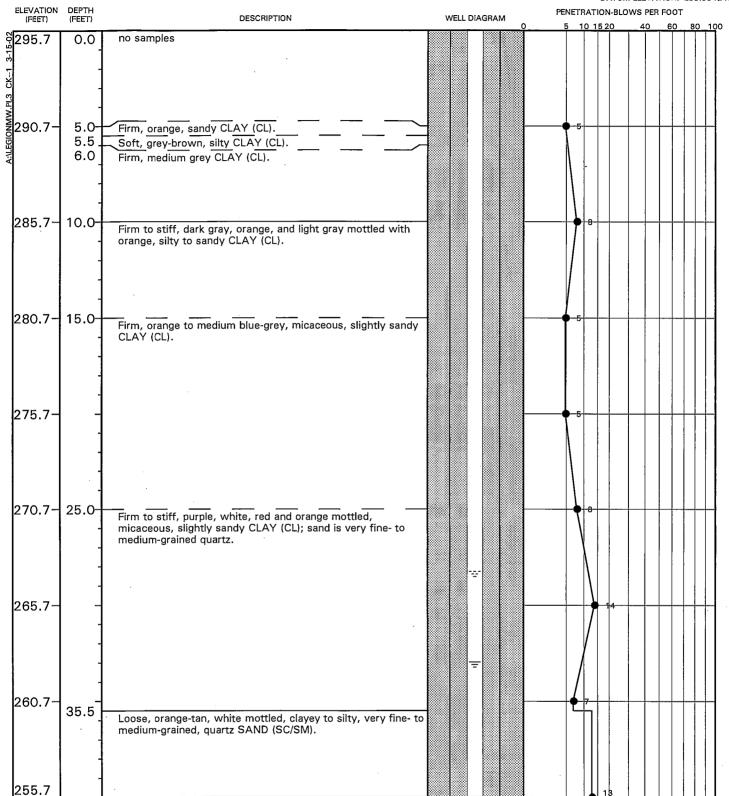
MW-3 10/31/00 10/31/00 12000-0-2129



ENGINEERING AND ENVIRONMENTAL SERVICES

HEIGHT OF RISER: 2.65 ft.

DATUM ELEVATION: 298.33 ft. NGVD



# **REMARKS:**

- Drilling Method: 0-47 ft., 6¼-inch ID; hollow stem augers. 47-65 feet, rotary drill with water.
- 2) Well Materials: 6-inch PVC outer casing; 2-inch PVC, 0.010-inch slotted screen.
- 3) = Water level measured on 3/6/02.

DRILLED BY LAW LOGGED BY CK CHECKED BY TPW

BORING NUMBER DATE STARTED DATE COMPLETED JOB NUMBER MW-4 2/13/02 2/14/02 12000-0-2129



HEIGHT OF RISER: 2.65 ft.

DATUM ELEVATION: 298.33 ft. NGVD

ELEVATION DEPTH (FEET) (FEET) PENETRATION-BLOWS PER FOOT DESCRIPTION WELL DIAGRAM Stiff, brown, orange, grey and white mottled, slightly 255.7 40.0 silty CLAY (CL) with hard, dark purple-brown concretions at 42 feet. 1.EGIONIAW.PI.3 CK-1.3 45.0 Soft, orange-yellow mottled, slightly clayey SILT (ML), with trace of fine-grained quartz sand. 47.0 Soft to stiff, yellow-orange, silty CLAY (CL) with abundant white, brittle, claystone fragments and hard, black concretions. 245.7· 54.0 Fine- to medium-grained, subrounded, clear, quartz SAND (SP). (Based on cuttings.) 240.7 235.7-230.7-66.0 Boring terminated at 66.00 feet 225.7-220.7 215.7

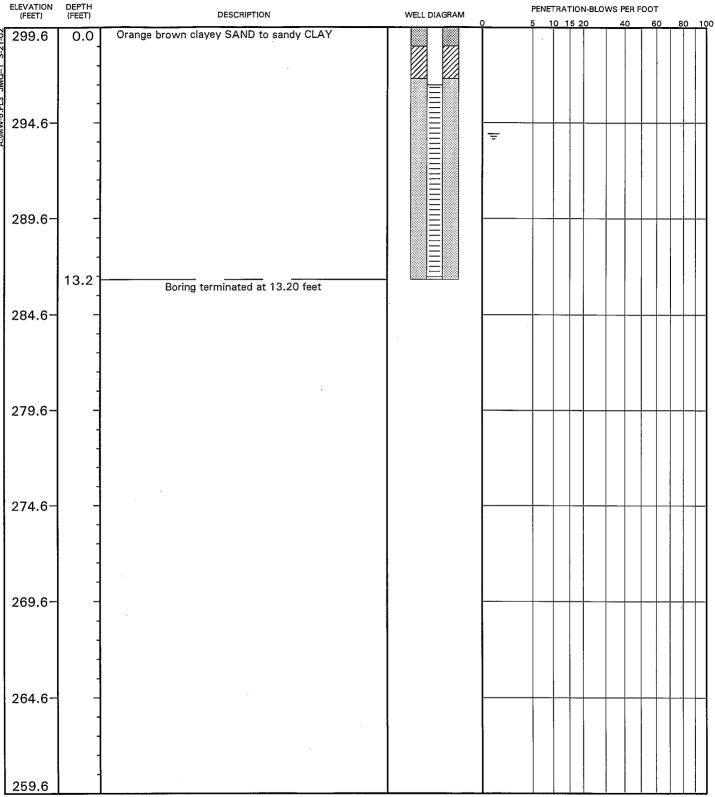
**REMARKS:** 

DRILLED BY LAW LOGGED BY CK CHECKED BY TPW

BORING NUMBER DATE STARTED DATE COMPLETED JOB NUMBER MW-4 2/13/02 2/14/02 12000-0-2129



HEIGHT OF RISER: 3.34 DATUM ELEVATION: 302.92



REMARKS:
1) Boring Advanced using direct-push techniques.

2) = Water level on 3-06-02

3) Well constructed of 1-inch ID PVC 4) Soil description based on soil logged in other site borings.

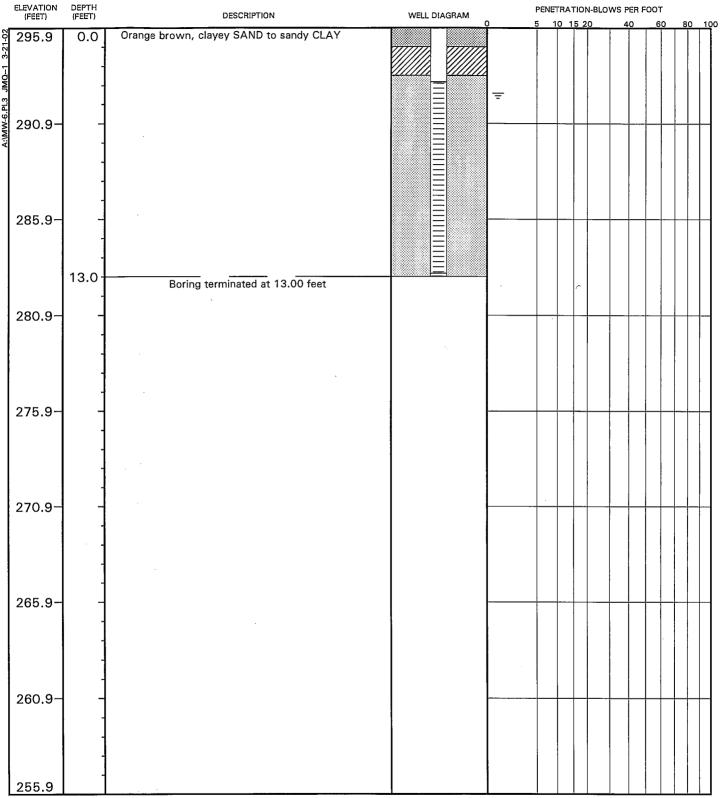
LAW DRILLED BY **TMK** LOGGED BY CHECKED BY CK

**BORING NUMBER** DATE STARTED DATE COMPLETED JOB NUMBER

MW-5 2/13/02 2/14/02 12000-0-2129



HEIGHT OF RISER: 3.30 DATUM ELEVATION: 299.16



REMARKS:

1) Boring Advanced using direct-push techniques
2) = Water level on 3-6-02

3) Well constructed of 1-inch ID PVC
4) Soil description based on soil logged in other site borings.

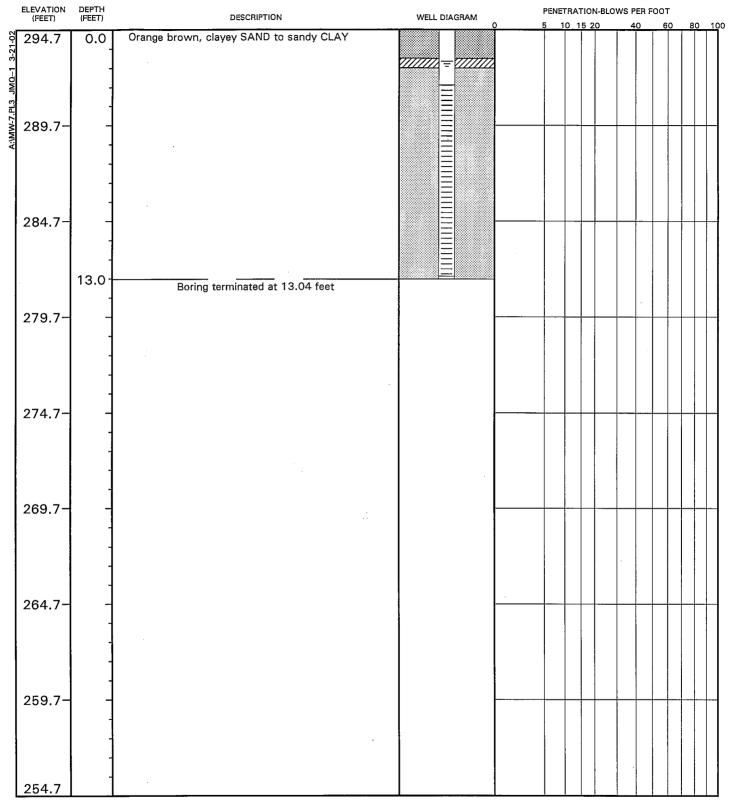
DRILLED BY LAW TMK LOGGED BY CHECKED BY CK

**BORING NUMBER** DATE STARTED DATE COMPLETED JOB NUMBER

MW-6 2/14/02 2/14/02 12000-0-2129



HEIGHT OF RISER: -0.17 DATUM ELEVATION: 294.54



REMARKS:

1) Boring Advanced using direct-push techniques
2) = Water level on 3-6-02
3) Well constructed of 1-inch ID PVC

4) Soil description based on soil logged in other site borings.

LAW DRILLED BY LOGGED BY **TMK** CHECKED BY CK

**BORING NUMBER** DATE STARTED DATE COMPLETED JOB NUMBER

MW-7 2/14/02 2/14/02 12000-0-2129



HEIGHT OF RISER: -0.22 DATUM ELEVATION: 293.96

ELEVATION (FEET) DEPTH (FEET) PENETRATION-BLOWS PER FOOT DESCRIPTION WELL DIAGRAM Orange brown, clayey SAND to sandy CLAY 294.2 0.0 289.2 284.2-13.0 Boring terminated at 12.97 feet 279.2-274.2-269.2-264.2-259.2-254.2

REMARKS:
1) Boring Advanced using direct-push techniques

2) = Water level on 3-6-02

3) Well constructed of 1-inch ID PVC 4) Soil description based on soil logged in other site borings.

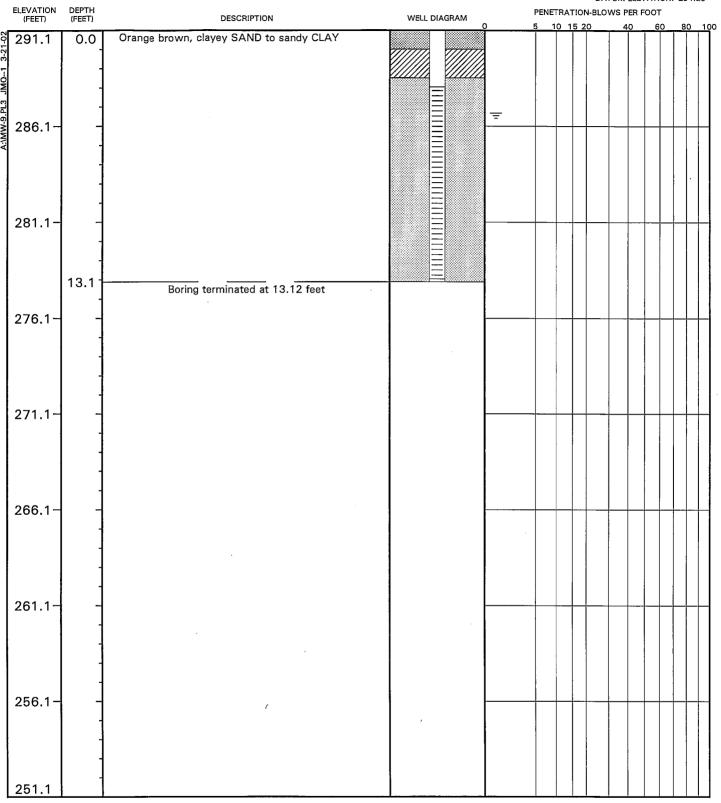
**DRILLED BY** LAW **TMK** LOGGED BY CHECKED BY CK

**BORING NUMBER** DATE STARTED DATE COMPLETED JOB NUMBER

MW-8 2/14/02 2/14/02 12000-0-2129



HEIGHT OF RISER: 3.13 DATUM ELEVATION: 294.26



REMARKS:
1) Boring Advanced using direct-push techniques
2) = Water level on 3-6-02

3) Well constructed of 1-inch ID PVC

4) Soil description based on soil logged in other site borings.

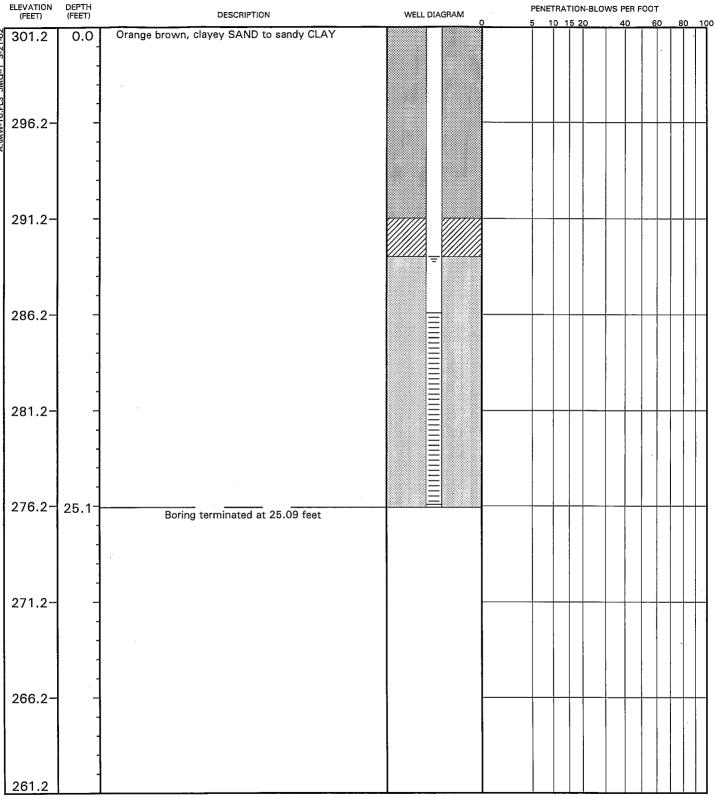
**DRILLED BY** LAW LOGGED BY **TMK** CHECKED BY CK

**BORING NUMBER** DATE STARTED DATE COMPLETED JOB NUMBER

MW-9 2/14/02 2/14/02 12000-0-2129



HEIGHT OF RISER: -0.14 DATUM ELEVATION: 301.04



REMARKS:

1) Boring Advanced using direct-push techniques
2) = Water level on 3-6-02

3) Well constructed of 1-inch ID PVC

4) Soil description based on soil logged in other site borings.

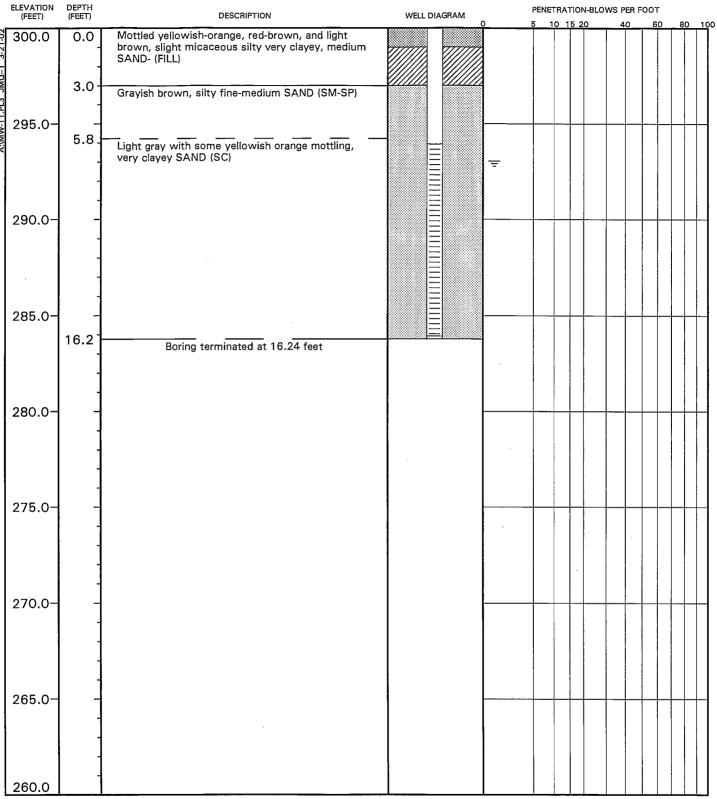
**DRILLED BY** LAW LOGGED BY **TMK** CHECKED BY CK

**BORING NUMBER** DATE STARTED DATE COMPLETED JOB NUMBER

MW-10 2/14/02 2/14/02 12000-0-2129



HEIGHT OF RISER: -0.14 DATUM ELEVATION: 299.86



**REMARKS:** 

1) Boring Advanced using direct-push techniques

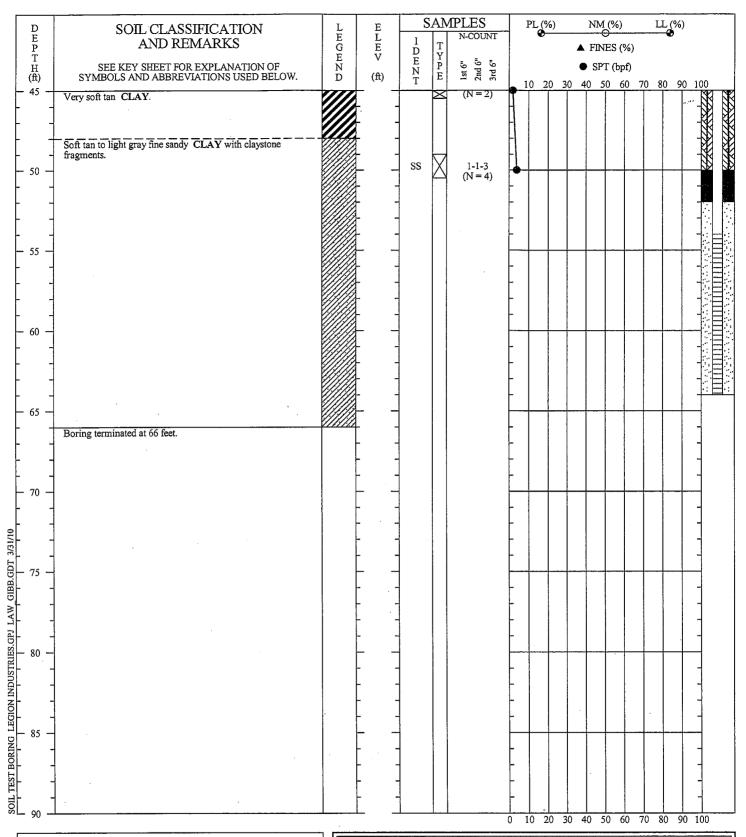
2) = Water level on 3-6-02

3) Well constructed of 1-inch ID PVC

DRILLED BY LAW LOGGED BY TMK CHECKED BY CK

BORING NUMBER DATE STARTED DATE COMPLETED JOB NUMBER MW-11 2/14/02 2/14/02 12000-0-2129





DRILLER: MACTEC EQUIPMENT: CME 75

METHOD: Hollow Stem Auger/Mud Rotary

HOLE DIA.: 8.25 inches

REMARKS: Type III well installed at 64 feet. Outer casing set at 52

feet. Stabilized groundwater depth 26.38 feet bgs.

THIS RECORD IS A REASONABLE INTERPRETATION OF SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION. SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND AT OTHER TIMES MAY DIFFER INTERFACES BEWEEN STRATA ARE APPROXIMATE. TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.

# SOIL TEST BORING RECORD

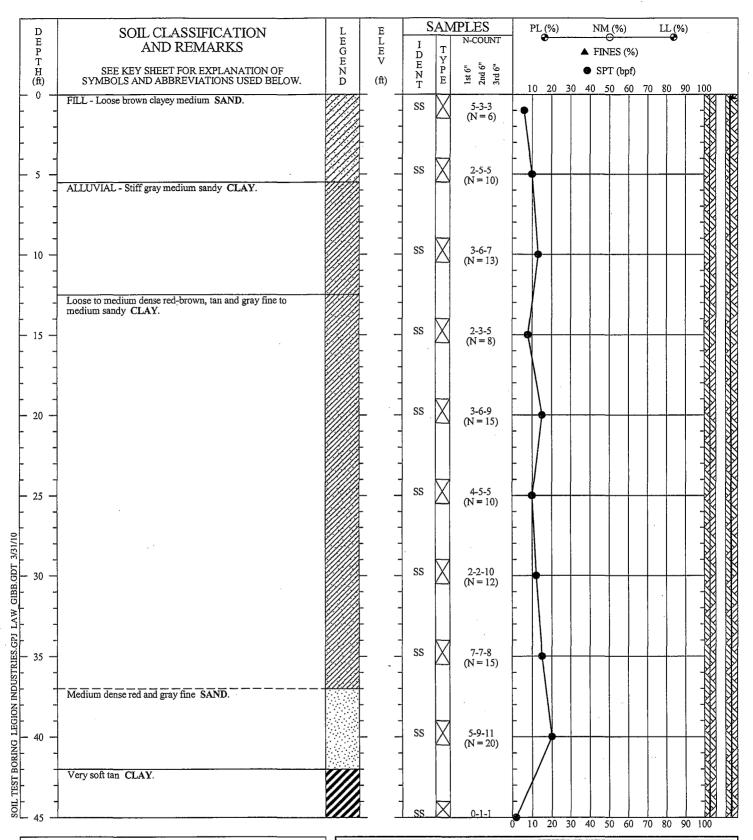
**BORING NO.:** MW-12

PROJECT: Legion Industries
LOCATION: Waynesboro, GA
DRILLED: January 25, 2010

**PROJECT NO.:** 6121-09-0444

PAGE 2 OF 2





DRILLER: MACTEC EQUIPMENT: **CME 75** 

METHOD: Hollow Stem Auger/Mud Rotary

HOLE DIA .: REMARKS:

Type III well installed at 64 feet. Outer casing set at 52

feet. Stabilized groundwater depth 26.38 feet bgs.

THIS RECORD IS A REASONABLE INTERPRETATION OF SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION. SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND AT OTHER TIMES MAY DIFFER. INTERFACES BEWEEN STRATA ARE APPROXIMATE. TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.

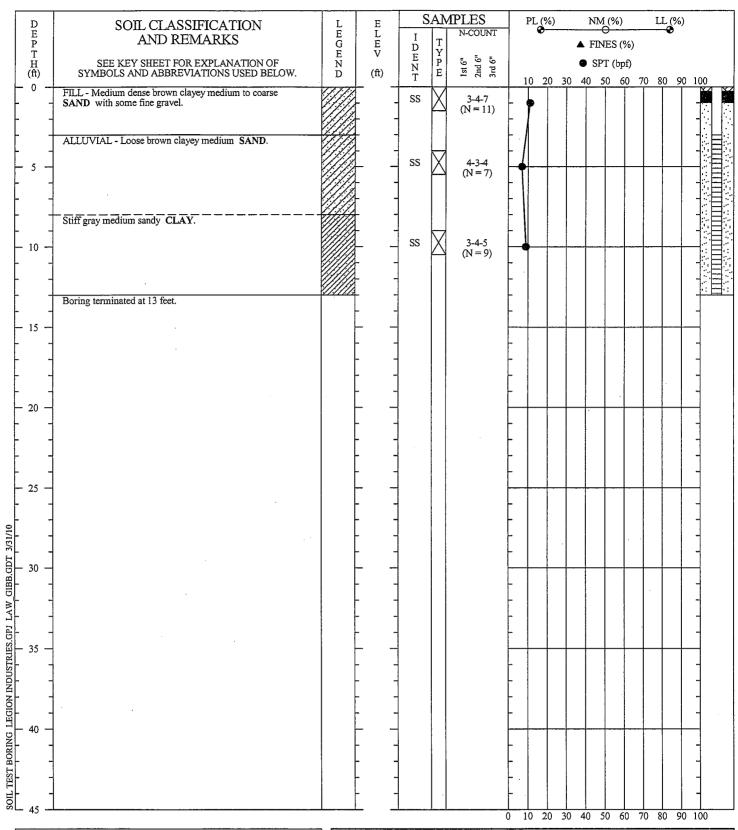
## SOIL TEST BORING RECORD

**BORING NO.:** MW-12

PROJECT: Legion Industries LOCATION: Waynesboro, GA

January 25, 2010 DRILLED: PROJECT NO.: 6121-09-0444





DRILLER: MACTEC EQUIPMENT: CME 75

METHOD: Hollow Stem Auger HOLE DIA.: 8.25 inches

REMARKS: Type II well installed. Stabilized groundwater depth 3.19

feet bgs.

THIS RECORD IS A REASONABLE INTERPRETATION OF SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION. SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND AT OTHER TIMES MAY DIFFER INTERFACES BEWEEN STRATA ARE APPROXIMATE. TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.

# SOIL TEST BORING RECORD

**BORING NO.:** MW-13

PROJECT: Legion Industries LOCATION: Waynesboro, GA January 27, 2010

**PROJECT NO.:** January 27, 201



D	SOIL CLASSIFICATION	L E	E		ΑŅ	IPLES N-COUNT	PL	(%)		NM (	(%)	L	L (%)	****
E P T	AND REMARKS	L E G E N D	E L E V	I D	T			-	•	FINE	ES (%)		-	
H (ft)	SEE KEY SHEET FOR EXPLANATION OF SYMBOLS AND ABBREVIATIONS USED BELOW.	N D	(ft)	D E N T	T Y P E	1st 6" 2nd 6" 3rd 6"		00			(bpf)	<b>50</b>		100
- 0 -	TOPSOIL	31, 31			+		10	20 .	30 4	0 50	60	70 E	80 90	100
	FILL - Brown clayey medium SAND.		- 	]										
ļ				-			- 1							-4
-	ALLUVIAL - Red-brown tan and gray clayey medium SAND.			1			<b> -</b>							
5 -			 	1								-		
-				-			-							-4
-	Red-brown slightly clayey fine to medium SAND.			-			-							-4
10 -			 											
10 .							-							-01
-							-							-8
				]										
<b>–</b> 15 <b>–</b>				1				<u> </u>		_		-	$\sqcup$	
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			-											
- 20 -							-			-			$\vdash$	
-							-							
-	Purple red clayey fine to coarse SAND.  Boring terminated at 24 feet.			1			}							
- 25 -				1				+		$\dashv$		+	$\vdash$	
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DRILLER: Atlas GeoSampling

EQUIPMENT: Geoprobe METHOD: Direct Push

HOLE DIA.: 2 inches
REMARKS: 1 inch piezomet

1 inch piezometer installed. Stabilized groundwater

depth 4.31 feet.

THIS RECORD IS A REASONABLE INTERPRETATION OF SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION. SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND AT OTHER TIMES MAY DIFFER. INTERFACES BEWEEN STRATA ARE APPROXIMATE. TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.

# SOIL TEST BORING RECORD

**BORING NO.:** PZ-4

PROJECT: Legion Industries LOCATION: Waynesboro, GA

**DRILLED:** January 27, 2010

**PROJECT NO.:** 6121-09-0444



D	SOIL CLASSIFICATION	L L	E	S	ΑM	PLES N-COUNT	]	PL (%	6)	]	NM (	(%)	]	LL (%	)
E P T	AND REMARKS	L E G E N D	E L E V	I D E N	T Y P E			·		<b>A</b> ]	FINE	ES (%)		·	
H (ft)	SEE KEY SHEET FOR EXPLANATION OF SYMBOLS AND ABBREVIATIONS USED BELOW.	N D	(ft)	N T	P E	1st 6" 2nd 6" 3rd 6"	1	0 2	0 30			(bpf)	70	80 9	0 100
- 0 -	TOPSOIL FILL - Brown clayey fine to medium SAND.						-			Ī					-8
} -				-			-		,						-
[	ALLUVIAL - Gray slightly clayey fine to medium SAND.						[								
- 5 <b>-</b>							_			$\dashv$	-				
-				-			-								-
-	Light gray to brown fine to medium sandy CLAY.		- ·				-								-8
- 10 -				1			_		+				+		
-							-								
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- 15 -			<del>-</del> -	-									-		
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20 -	Light gray clayey fine to medium SAND.					٠			4	_		_			
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-	Boring terminated at 22 feet.						-								-
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DRILLER: Atlas GeoSampling

EQUIPMENT: Geoprobe
METHOD: Direct Push

HOLE DIA.: 2 inches

REMARKS: 1 inch piezometer installed. Stabilized groundwater

depth 3.58 feet.

# THIS RECORD IS A REASONABLE INTERPRETATION OF SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION. SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND AT OTHER TIMES MAY DIFFER. INTERFACES BEWEEN STRATA ARE APPROXIMATE. TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.

# SOIL TEST BORING RECORD

**BORING NO.:** PZ-5

**PROJECT:** Legion Industries

**LOCATION:** Waynesboro, GA **DRILLED:** January 27, 2010

**PROJECT NO.:** 6121-09-0444

MACTEC

Γ			T		9	A 1.	<b>IPLES</b>	DI.	(0/)	NT	N ( (0/)		TT (0/)	
	D E	SOIL CLASSIFICATION AND REMARKS	L E G E N D	E L E V		T	N-COUNT	PL	/0)		M (%)		LL (%) — <b>⊕</b>	
	P T		E	V V	I D E N T	Y P E	= Jo =				NES (%			
	H (ft)	SEE KEY SHEET FOR EXPLANATION OF SYMBOLS AND ABBREVIATIONS USED BELOW.	D	(ft)	N T	E	1st 6" 2nd 6" 3rd 6"	10	20 20		PT (bpf) 50 60		90 O	100
ŀ	- 0 —	TOPSOIL	131, 31			$\dagger \dagger$			20 3	7 40	30 <u>60</u>	$\frac{70}{1}$	1 T	7 100
Ĺ	_	FILL - Brown clayey fine to medium SAND.								İ				
	-							<u> </u>						-3 4
-	-	ALLUVIAL - Gray and brown slightly clayey to clayey fine to medium SAND.						-		-	11	ł		-1
+	- 5 <del>-</del>	to medium SAND.									+	+		
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DRILLER: Atlas GeoSampling

EQUIPMENT: Geoprobe
METHOD: Direct Push
HOLE DIA.: 2 inches

REMARKS: 1 inch piezometer installed. Stabilized groundwater

depth 2.88 feet.

THIS RECORD IS A REASONABLE INTERPRETATION OF SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION. SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND AT OTHER TIMES MAY DIFFER. INTERFACES BEWEEN STRATA ARE APPROXIMATE. TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.

# SOIL TEST BORING RECORD

**BORING NO.:** PZ-6

PROJECT: Legion Industries LOCATION: Waynesboro, GA January 27, 2010

PROJECT NO.: 6121-09-0444



Γ	D	SOIL CLASSIFICATION	L	E	S	ΑN	1PLES	PL	(%)		NM	(%)		LL (%)		<del></del>
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DRILLER; GeoLab
EQUIPMENT; GeoProbe
METHOD; Direct Push
HOLE DIA.; 2 inches
REMARKS:

PREPARED BY: S. Foley CHECKED BY: C. Ferry

THIS RECORD IS A REASONABLE INTERPRETATION OF SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION. SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND AT OTHER TIMES MAY DIFFER. INTERFACES BEWEEN STRATA ARE APPROXIMATE, TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.

# SOIL TEST BORING RECORD

BORING NO.: GP-9

PROJECT: Legion Industries

LOCATION: Atlanta, GA
DRILLED: January 3, 2013

PROJECT NO.: 6121-09-0444



D E	SOIL CLASSIFICATION AND REMARKS	L E	E L		T	IPLES N-COUNT	]	PL (%	6)			(%)		Li	_ (%)		······································
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-	Gray clayey medium SAND.						-									4	
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DRILLER: GeoLab
EQUIPMENT: GeoProbe
METHOD: Direct Push
HOLE DIA.: 2 inches
REMARKS:

PREPARED BY: S. Foley CHECKED BY; C. Ferry

THIS RECORD IS A REASONABLE INTERPRETATION OF SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION. SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND AT OTHER TIMES MAY DIFFER. INTERPACES BEWEEN STRATA ARE APPROXIMATE, TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.

# SOIL TEST BORING RECORD

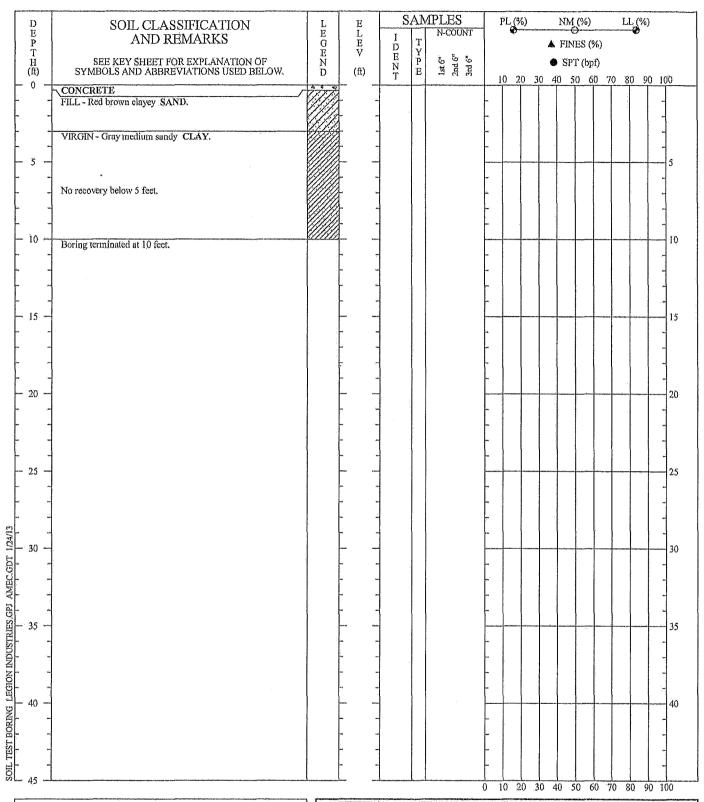
BORING NO.: GP-10

PROJECT: Legion Industries LOCATION: Atlanta, GA

LOCATION: Aflanta, GA
DRILLED: January 3, 2013

PROJECT NO.: 6121-09-0444





DRILLER; GcoLab
EQUIPMENT: GeoProbe
METHOD; Direct Push
HOLE DIA.: 2 inches
REMARKS;

PREPARED BY: S. Foley CHECKED BY: C. Ferry

THIS RECORD IS A REASONABLE INTERPRETATION OF SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION, SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND AT OTHER TIMES MAY DIFFER. INTERPACES BEWEEN STRATA ARE APPROXIMATE, TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.

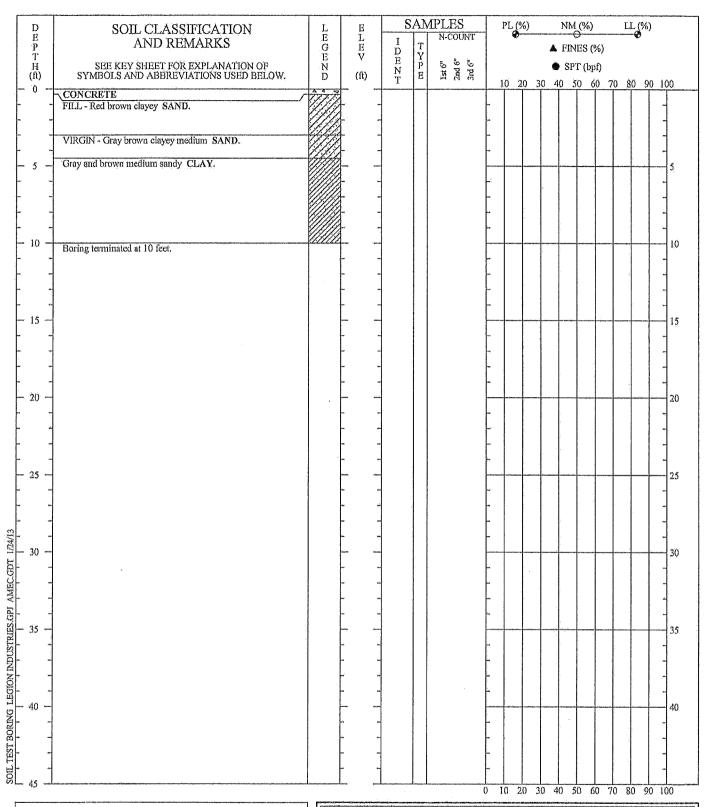
# SOIL TEST BORING RECORD

BORING NO.: GP-11

PROJECT: Legion Industries LOCATION: Atlanta, GA January 3, 2013

PROJECT NO.: 6121-09-0444





DRILLER: GeoLab EQUIPMENT: GeoProbe METHOD: Direct Push HOLE DIA .: 2 inches REMARKS:

PREPARED BY: S. Foley CHECKED BY: C. Ferry

THIS RECORD IS A REASONABLE INTERPRETATION OF SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION, SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND AT OTHER TIMES MAY DIFFER. INTERPACES BEWEEN STRATA ARE APPROXIMATE. TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.

# SOIL TEST BORING RECORD

BORING NO.:

GP-12

PROJECT:

Legion Industries

LOCATION:

Atlanta, GA

DRILLED:

January 3, 2013

PROJECT NO.: 6121-09-0444



D E P	SOIL CLASSIFICATION AND REMARKS	L E G E	E L E V	ī	TTT	IPLES N-COUNT	PI	L (%		A (%) O NES (9		LL	. (%)		
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	VIRGIN - Red brown and gray clayey fine to medium SAND.													1	
5 —	Gray and brown medium sandy CLAY.						<u> </u>								5
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DRILLER: GeoLab EQUIPMENT: GeoProbe METHOD: Direct Push HOLE DIA.: 2 inches REMARKS:

PREPARED BY: S. Folcy CHECKED BY: C. Ferry

THIS RECORD IS A REASONABLE INTERPRETATION OF SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION, SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND AT OTHER TIMES MAY DIFFER, INTERFACES BEWEEN STRATA ARE APPROXIMATE. TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.

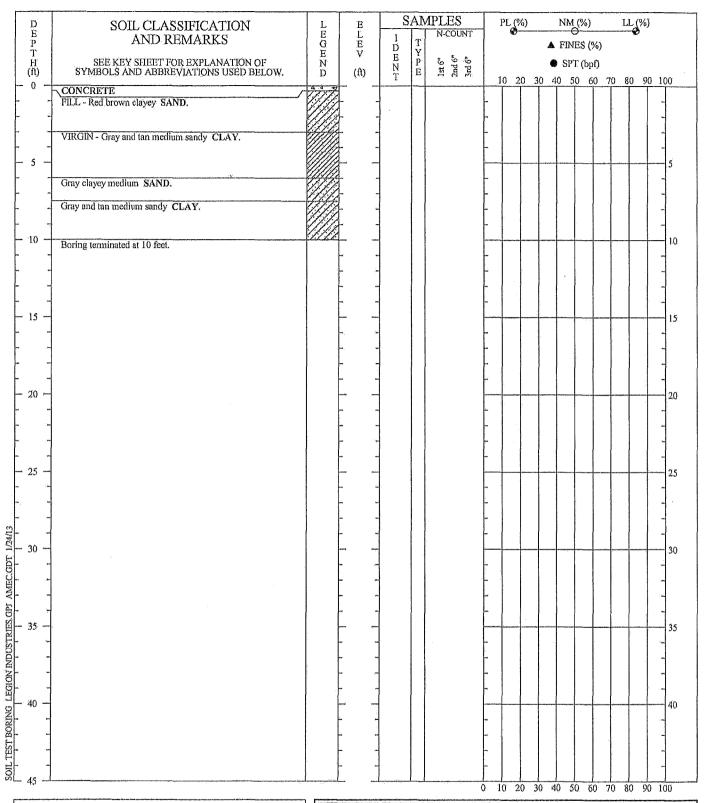
# SOIL TEST BORING RECORD

**BORING NO.:** GP-13

PROJECT: Legion Industries LOCATION: Atlanta, GA

**DRILLED:** January 3, 2013 **PROJECT NO.:** 6121-09-0444





DRILLER: GeoLab
EQUIPMENT: GeoProbe
METHOD: Direct Push
HOLE DIA.: 2 inches
REMARKS:

PREPARED BY: S, Foley CHECKED BY: C, Ferry

THIS RECORD IS A REASONABLE INTERPRETATION OF SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION, SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND AT OTHER TIMES MAY DIFFER. INTERFACES BEWEEN STRATA ARE APPROXIMATE, TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.

# SOIL TEST BORING RECORD

BORING NO.: GP-14
PROJECT: Legion Inc.

PROJECT: Legion Industries
LOCATION: Atlanta, GA
DRILLED: January 3, 2013

PROJECT NO.: 6121-09-0444



D E P	SOIL CLASSIFICATION AND REMARKS	LE GEN	E L E V	·	TTT	APLES N-COUNT	Р	L (%	6)			(%) ES (%		LL	. (%) <b>6</b>		
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THIS RECORD IS A REASONABLE INTERPRETATION OF SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION. SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND AT OTHER TIMES MAY DIFFER. INTERFACES BEWEEN STRATA ARE APPROXIMATE, TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.

PREPARED BY: S. Foley CHECKED BY: C. Feny

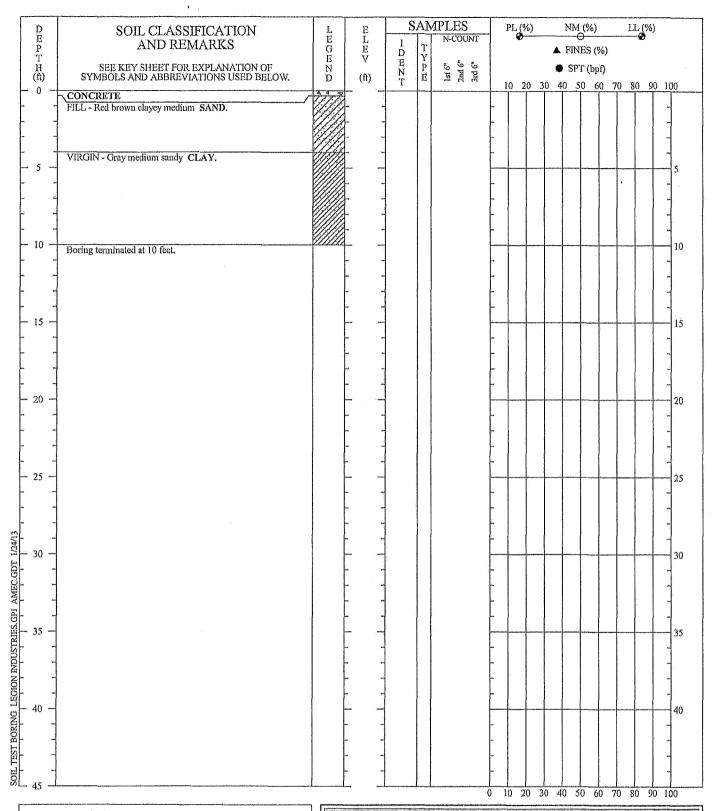
## SOIL TEST BORING RECORD

BORING NO.: GP-15

PROJECT: Legion Industries LOCATION: Atlanta, GA January 3, 2013

PROJECT NO.: 6121-09-0444





PREPARED BY: S. Foley CHECKED BY: C. Ferry

THIS RECORD IS A REASONABLE INTERPRETATION OF SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION, SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND AT OTHER TIMES MAY DIFFER, INTERFACES BEWEEN STRATA ARE APPROXIMATE, TRANSITIONS BETWEEN STRATA MAY BE GRADUAL,

# SOIL TEST BORING RECORD

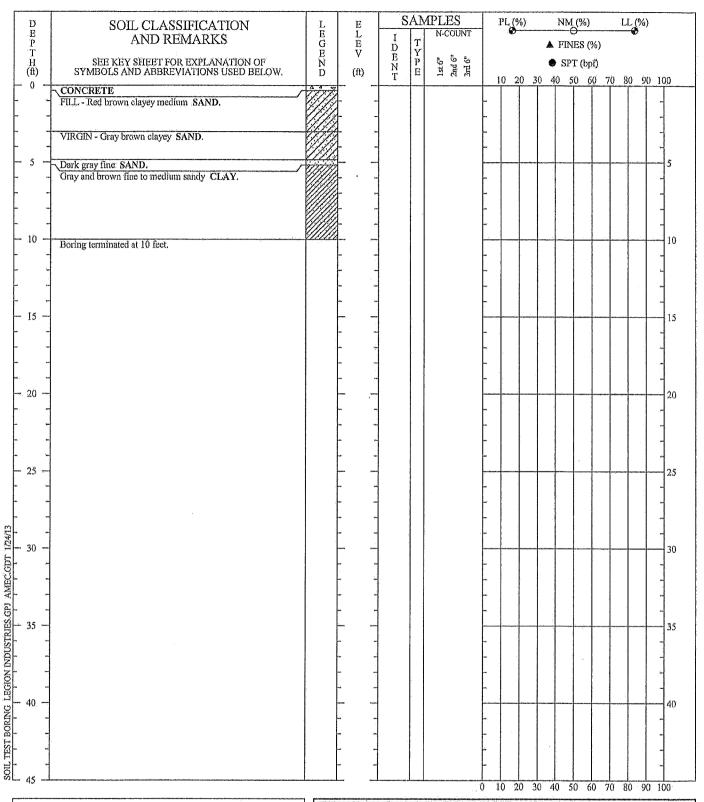
BORING NO.: GP-16

PROJECT: Legion Industries LOCATION: Atlanta, GA

Atlanta, GA January 3, 2013

**DRILLED:** January 3, 201 **PROJECT NO.:** 6121-09-0444





PREPARED BY: S. Foley CHECKED BY: C, Ferry

THIS RECORD IS A REASONABLE INTERPRETATION OF SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION, SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND AT OTHER TIMES MAY DIFFER. INTERPACES BEWEEN STRATA ARE APPROXIMATE. TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.

### SOIL TEST BORING RECORD

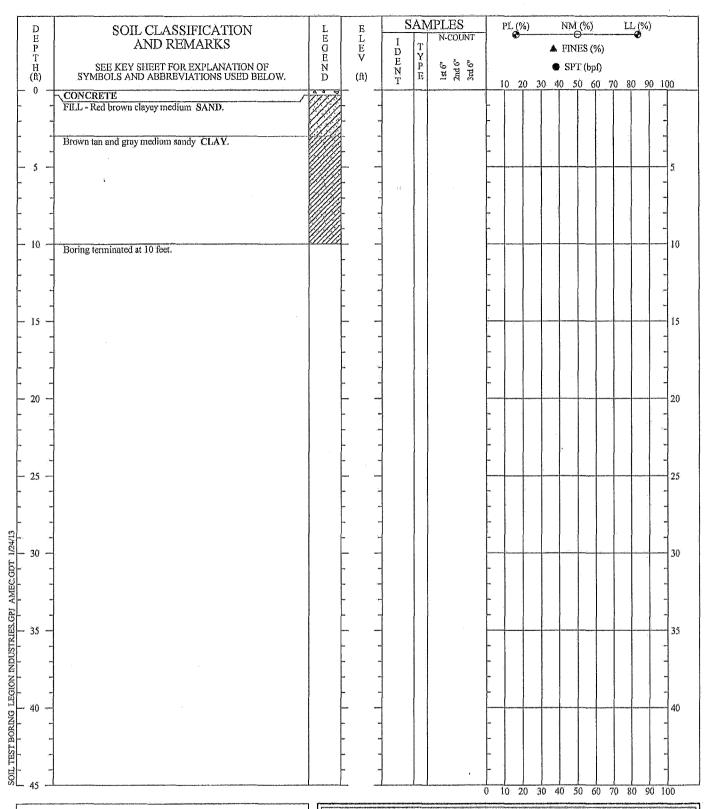
BORING NO.: GP-17

PROJECT: Legion Industries LOCATION: Atlanta, GA

**DRILLED:** January 3, 2013 **PROJECT NO.:** 6121-09-0444

CT NO.: 6121-09-0444 PAGE 1 OF 1





DRILLER: GeoLab
EQUIPMENT: GeoProbe
METHOD: Direct Push
HOLE DIA.: 2 inches
REMARKS:

PREPARED BY: \$, Foley CHECKED BY: C. Ferry

THIS RECORD IS A REASONABLE INTERPRETATION OF SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION, SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND AT OTHER TIMES MAY DIFFER, INTERFACES BEWEEN STRATA ARE APPROXIMATE. TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.

## SOIL TEST BORING RECORD

BORING NO.: GP-18

**PROJECT:** Legion Industries

LOCATION: Atlanta, GA

DRILLED: January 3, 2013

PROJECT NO.: 6121-09-0444



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REMARKS:

PREPARED BY: S. Foley CHECKED BY: C. Ferry

THIS RECORD IS A REASONABLE INTERPRETATION OF SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION, SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND AT OTHER TIMES MAY DIFFER, INTERFACES BEWEEN STRATA ARE APPROXIMATE. TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.

# SOIL TEST BORING RECORD

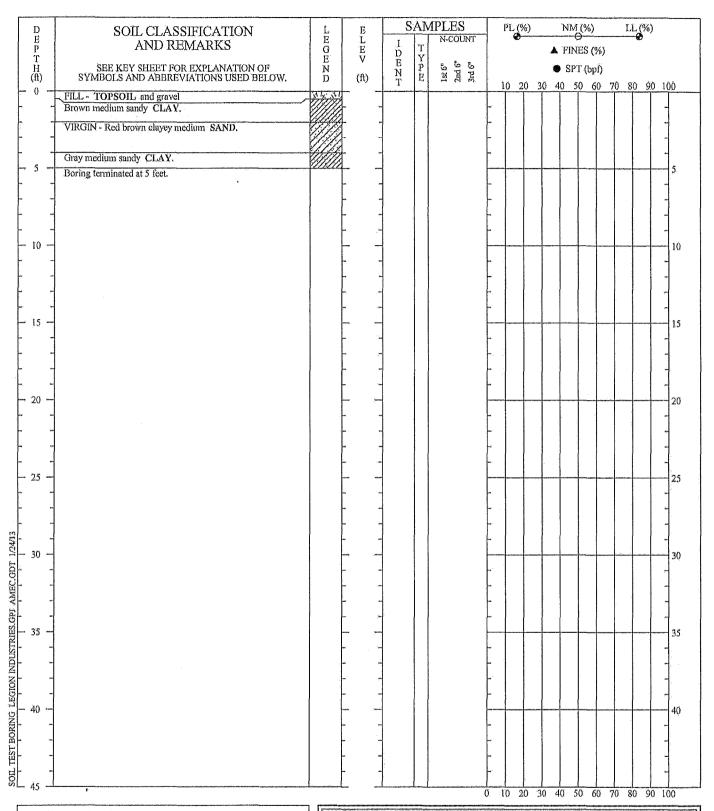
BORING NO.: GP-19

PROJECT: Legion Industries LOCATION: Atlanta, GA

**DRILLED:** January 3, 2013 **PROJECT NO.:** 6121-09-0444

CCT NO.: 6121-09-0444 PAGE 1 OF 1





PREPARED BY: S. Foley CHECKED BY: C. Ferry

THIS RECORD IS A REASONABLE INTERPRETATION OF SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION. SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND AT OTHER TIMES MAY DIFFER. INTERFACES BEWEEN STRATA ARE APPROXIMATE. TRANSPRICES FOR ATTA AND DE COR ADULAL TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.

# SOIL TEST BORING RECORD

BORING NO.: SS-13

PROJECT:

Legion Industries LOCATION: Atlanta, GA

January 4, 2013 DRILLED: PROJECT NO.: 6121-09-0444



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ŀ		VIRGIN - Brown, tan and gray fine sandy CLAY.		-				-									4
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DRILLER: GeoLab EQUIPMENT: GeoProbe

METHOD: Direct Push HOLE DIA.: 2 inches

REMARKS:

PREPARED BY: S. Foley CHECKED BY: C. Ferry

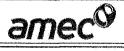
THIS RECORD IS A REASONABLE INTERPRETATION OF SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION, SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND AT OTHER TIMES MAY DIFFER. INTERFACES BEWEEN STRATA ARE APPROXIMATE. TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.

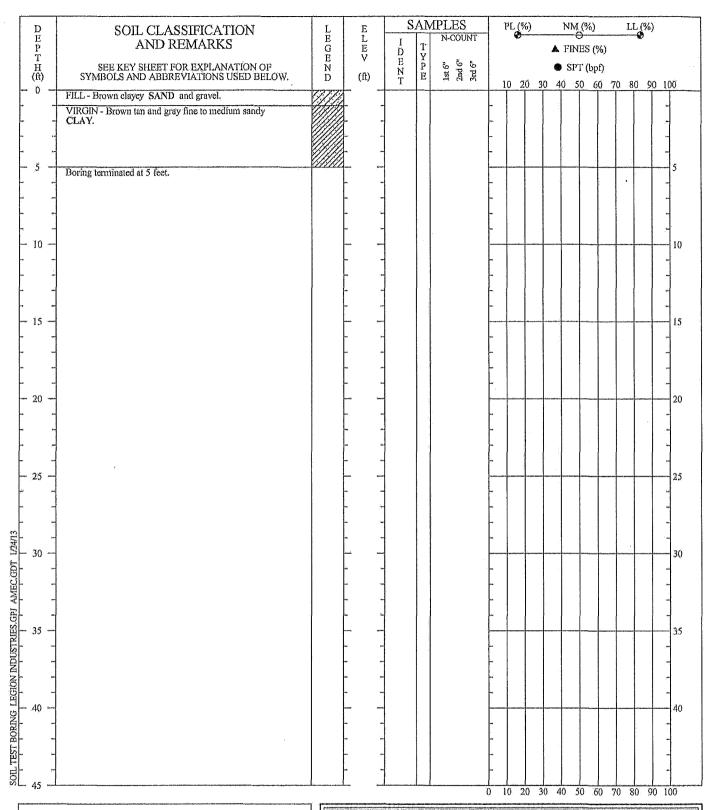
# SOIL TEST BORING RECORD

BORING NO.: SS-14

PROJECT: Legion Industries LOCATION: Atlanta, GA

**DRILLED:** January 4, 2013 **PROJECT NO.:** 6121-09-0444





PREPARED BY: S. Foley CHECKED BY: C. Ferry

THIS RECORD IS A REASONABLE INTERPRETATION OF SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION. SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND AT OTHER TIMES MAY DIFFER. INTERFACES BEWEEN STRATA ARE APPROXIMATE. TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.

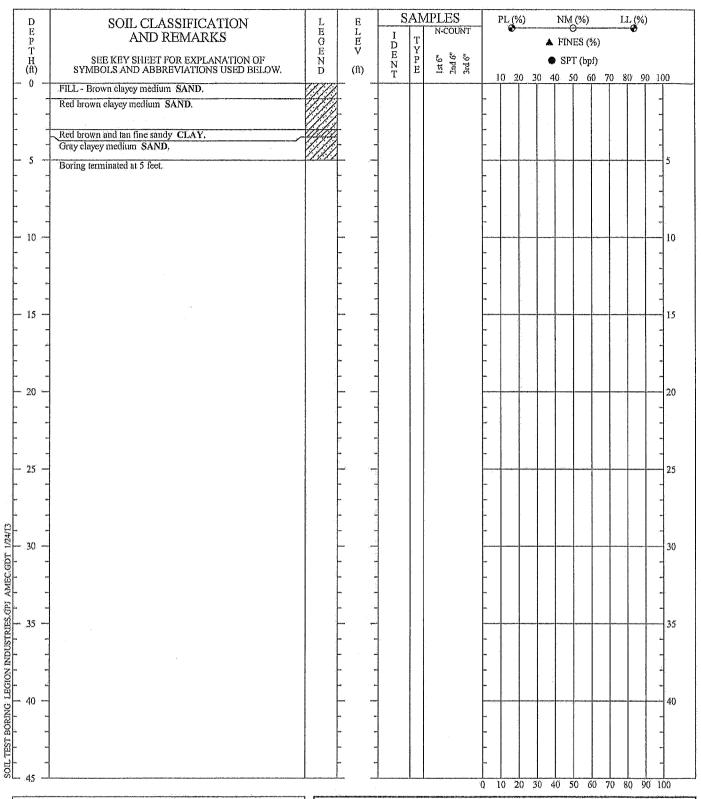
#### SOIL TEST BORING RECORD

BORING NO.: SS-15

PROJECT: Legion Industries LOCATION: Atlanta, GA

**DRILLED:** January 4, 2013 **PROJECT NO.:** 6121-09-0444





PREPARED BY: S. Foley CHECKED BY: C. Ferry

THIS RECORD IS A REASONABLE INTERPRETATION OF SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION. SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND AT OTHER TIMES MAY DIFFER. INTERFACES BEWEEN STRATA ARE APPROXIMATE, TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.

#### SOIL TEST BORING RECORD

BORING NO.: SS-16

PROJECT: Legion Industries LOCATION: Atlanta, GA

DRILLED: January 4, 2013

PROJECT NO.: 6121-09-0444



Ď	SOIL CLASSIFICATION AND REMARKS	L	E		ΑŅ	IPLES N-COUNT		PL (9	<del>6</del> )		NM	(%)		LL	(%)	*****
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	VIRGIN - Gray clayey medium SAND.						-	ţ								
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PREPARED BY: S. Foley CHECKED BY: C. Ferry

THIS RECORD IS A REASONABLE INTERPRETATION OF SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION, SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND AT OTHER TIMES MAY DIFFER. INTERFACES BEWEEN STRATA ARE APPROXIMATE. TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.

## SOIL TEST BORING RECORD

BORING NO.: SS-17

PROJECT: Legion Industries LOCATION: Atlanta, GA

**DRILLED:** January 4, 2013 **PROJECT NO.:** 6121-09-0444



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DRILLER: GeoLab EQUIPMENT: GeoProbe

METHOD: Direct Push/Hollow Stem Auger

HOLE DIA.: 8 inches

REMARKS: Well installed. Groundwater at \_\_ feet.

Prepared by: S. Foley Reviewed by: Chuck Ferry

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#### SOIL TEST BORING RECORD

**BORING NO.:** MW-14

PROJECT: Legion Industries LOCATION: Atlanta, GA

**DRILLED:** June 17, 2014 **PROJECT NO.:** 6121-09-0444

**DJECT NO.:** 6121-09-0444 **PAGE** 1 **OF** 1



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DRILLER: GeoLab EQUIPMENT: GeoProbe

METHOD: Direct Push/Hollow Stem Auger

HOLE DIA.: 8 inches

REMARKS: Well installed. Groundwater at \_\_ feet.

Prepared by: S. Foley Reviewed by: Chuck Ferry

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# SOIL TEST BORING RECORD

**BORING NO.:** MW-15

PROJECT: Legion Industries LOCATION: Atlanta, GA DRILLED: June 17, 2014

PROJECT NO.: 6121-09-0444 PAGE 1 OF 1



AND REMARKS   Sign LLV SHEET POR EXPLANATION OF SYMBOLS AND ABBREVIATIONS USED BRLOW.   D   V   D	_				· · ·	<u></u>	MI EC	-	- NT (0.			D 4 4		-	- T (0/)	<u> </u>
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TOPSOIL.  Fill Gray brown fine to mediam SAND.  RESIDUAL - Gray silty claysy fine to mediam SAND.  Red brown and and thus gray claysy fine to mediam SAND.  Red brown and and thus gray claysy fine to mediam SAND.  Red brown alightly claysy silty fine SAND.  Boring terminated at 10 best.  - 20	(ft)	SEE KEY SHEET FOR EXPLANATION OF SYMBOLS AND ABBREVIATIONS USED BELOW,	D	(ft)	N T	E	1st 6 2nd 6 3rd 6		0.0	ດ າດ				70. 0	o or	100
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S Red brown elayey sity fine SAND.  Red brown eligibily clayey sity fine SAND.  10 Boring terminated at 10 feet.  25 - 25 - 35 - 35 - 36 - 37 - 38 - 38 - 38 - 38 - 38 - 38 - 38		FILL - Gray brown fine to medium SAND.  RESIDUAL - Gray silty clavey fine to medium SAND.		-				-								7. 7.
Rod brown and and that gray daysy fine to medium SAND.  Rod brown alightly chayey all by fine SAND.  Boring terminated at 10 feet.  20 — 25 — 25 — 25 — 26 — 27 — 28 — 29 — 29 — 29 — 29 — 29 — 29 — 20 — 20		reserved stay only only on to interior State.		_												
Rod brown and and that gray daysy fine to medium SAND.  Rod brown alightly chayey all by fine SAND.  Boring terminated at 10 feet.  20 — 25 — 25 — 25 — 26 — 27 — 28 — 29 — 29 — 29 — 29 — 29 — 29 — 20 — 20		Red brown claves silts fine SAND		-				- 1								
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DRILLER: GeoLab EQUIPMENT: GeoProbe

METHOD: Direct Push/Hollow Stem Auger

HOLE DIA.: 8 inches

REMARKS: Well installed. Groundwater at \_\_\_ feet.

Prepared by: S. Foley Reviewed by: Chuck Ferry

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# SOIL TEST BORING RECORD

**BORING NO.:** MW-16

PROJECT: Legion Industries LOCATION: Atlanta, GA

**LOCATION:** Atlanta, GA **DRILLED:** June 17, 2014

**PROJECT NO.:** 6121-09-0444



D E	SOIL CLASSIFICATION	L	E		AM	IPLES N-COUNT	F	PL (%	%)		NM	(%)	]	 LL (%)	
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-	Red brown to brown and gray clayey silty fine SAND with occasional pebbles.		<b>}</b> .	-			-								-8
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DRILLER: GeoLab EQUIPMENT: GeoProbe

METHOD: Direct Push/Hollow Stem Auger

HOLE DIA.: 8 inches

REMARKS: Well installed. Groundwater at \_\_ feet.

Prepared by: S. Foley Reviewed by: Chuck Ferry

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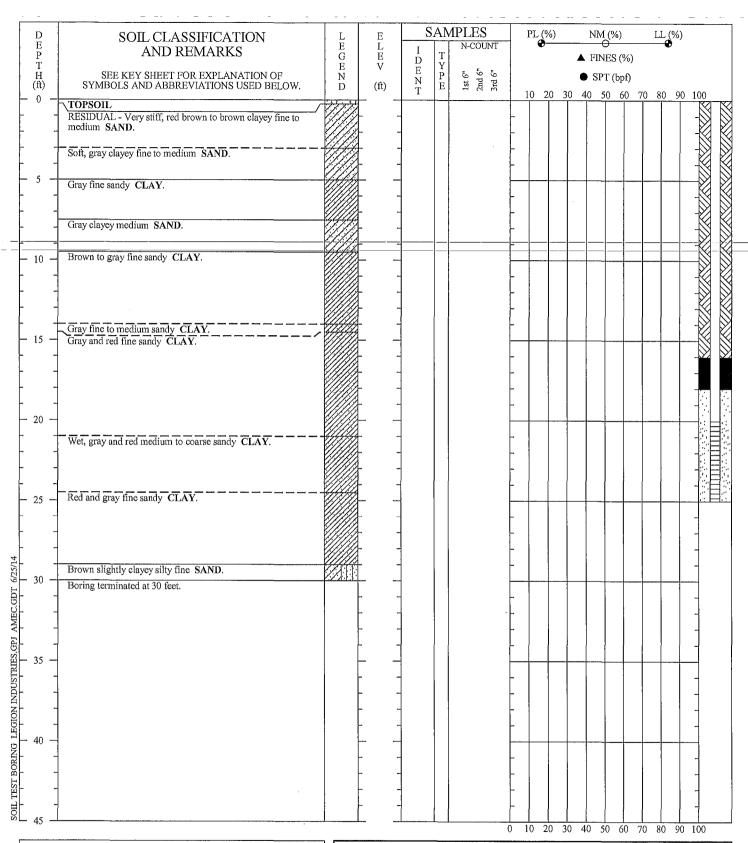
## SOIL TEST BORING RECORD

**BORING NO.:** MW-17

PROJECT: Legion Industries
LOCATION: Atlanta, GA

**DRILLED:** June 17, 2014 **PROJECT NO.:** 6121-09-0444





DRILLER: GeoLab EQUIPMENT: GeoProbe

METHOD: Direct Push/Hollow Stem Auger

HOLE DIA.: 8 inches

REMARKS: Well installed. Groundwater at \_\_ feet.

Prepared by: S. Foley Reviewed by: Chuck Ferry

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# SOIL TEST BORING RECORD

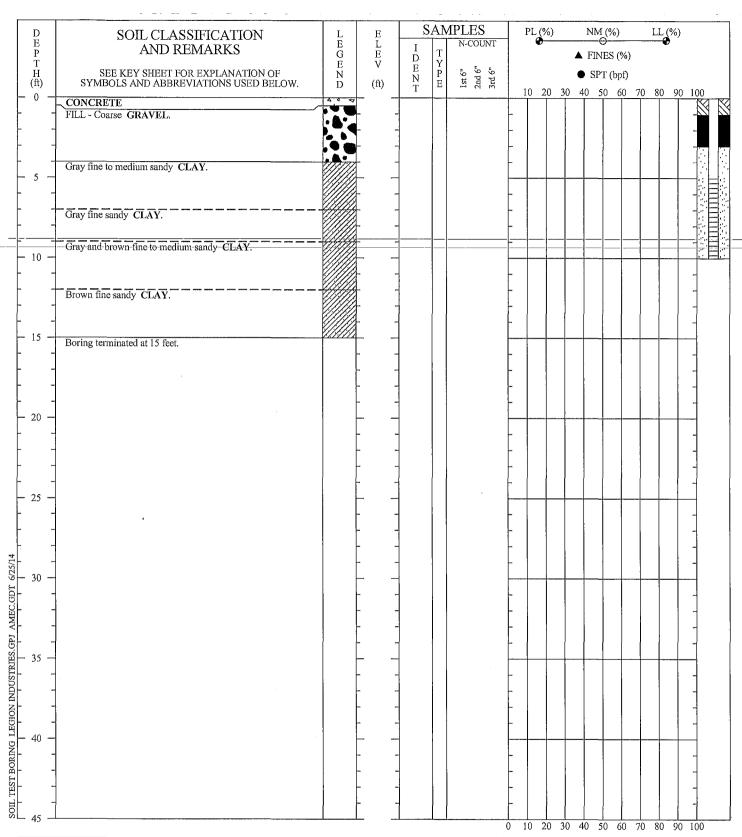
**BORING NO.:** MW-18

PROJECT: Legion Industries LOCATION: Atlanta, GA

**DRILLED:** June 18, 2014 **PROJECT NO.:** 6121-09-0444

ECT NO.: 6121-09-0444 PAGE 1 OF 1





DRILLER; GeoLab
EQUIPMENT: GeoProbe

METHOD: Direct Push/Hollow Stem Auger

HOLE DIA.: 8 inches

REMARKS: Well installed. Groundwater at \_\_ feet.

Prepared by: S. Foley Reviewed by: Chuck Ferry

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#### SOIL TEST BORING RECORD

**BORING NO.:** MW-19

PROJECT: Legion Industries LOCATION: Atlanta, GA

DRILLED: June 18, 2014

**PROJECT NO.:** 6121-09-0444



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DRILLER: Atlas Geosampling EQUIPMENT: Geoprobe METHOD: Direct Push HOLE DIA.: 2 inches

REMARKS:

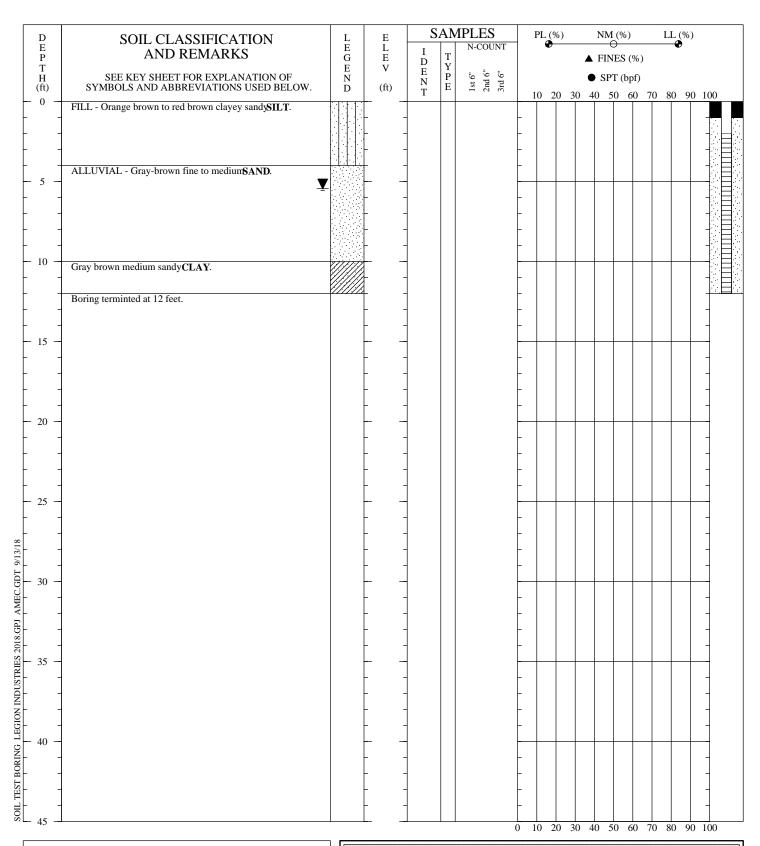
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**BORING NO.:** DP-9

PROJECT: Legion Industries
LOCATION: Waynesboro, Georgia
DRILLED: August 21, 2018

**PROJECT NO.:** 6121-18-0893





DRILLER: Atlas Geosampling
EQUIPMENT: Geoprobe
METHOD: Direct Push / HSA
HOLE DIA.: 2 inches / 8 inches

REMARKS: Type II well installed. Stablized groundwater depth 5.45

feet TOC.

THIS RECORD IS A REASONABLE INTERPRETATION OF SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION. SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND AT OTHER TIMES MAY DIFFER. INTERFACES BEWEEN STRATA ARE APPROXIMATE. TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.

**BORING NO.:** MW-20

PROJECT: Legion Industries
LOCATION: Waynesboro, Georgia
August 21, 2018

**PROJECT NO.:** 6121-18-0893



APPENDIX C
RISK REDUCTION STANDARDS

Table B-1 Summary of Soil RRS

PARAMETER	Type 1 RRS	Type 2 RRS DAF of 20	Type 3 RRS Surface	Type 3 RRS Subsurface	Type 4 RRS IV DAF of 20
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Voletile Oznasia Compounda (VOCa)					
Volatile Organic Compounds (VOCs)	5.05.04	0.05.00	5 OF 04	F 0F 04	0.05.00
1,1,2-Trichloroethane	5.0E-01	3.2E-02	5.0E-01	5.0E-01	3.2E-02
1,1-Dichloroethane	4.0E+02	2.3E+01	4.0E+02	4.0E+02	2.3E+01
1,1-Dichloroethene	7.0E-01	7.4E-01	7.0E-01	7.0E-01	3.8E+00
Chlorobenzene	1.0E+01	1.4E+00	1.0E+01	1.0E+01	1.8E+00
cis-1,2-Dichloroethene	7.0E+00	4.1E-01	7.0E+00	7.0E+00	1.2E+00
Ethylbenzene	7.0E+01	1.6E+01	7.0E+01	7.0E+01	1.6E+01
Isopropylbenzene	2.2E+01	6.5E+00	2.2E+01	2.2E+01	3.3E+01
Tetrachloroethene	5.0E-01	4.5E-02	5.0E-01	5.0E-01	4.5E-02
Toluene	1.0E+02	1.4E+01	1.0E+02	1.0E+02	7.2E+01
Trichloroethene	5.0E-01	3.6E-02	5.0E-01	5.0E-01	3.7E-02
Vinyl chloride (lifetime)	2.0E-01	1.4E-0 <b>2</b>	2.0E-01	2.0E-01	2.2E-02
Xylenes, mixture	1.0E+03	2.0E+02	1.0E+03	1.0E+03	2.0E+02
SVOCS					
1,2,4-Trichlorobenzene	1.1E+01	4.1E+00	1.1E+01	1.1E+01	4.1E+00
1,2-Dichlorobenzene	6.0E+01	1.2E+01	6.0E+01	6.0E+01	1.2E+01
1,4-Dichlorobenzene	7.5E+00	1.4E+00	7.5E+00	7.5E+00	1.4E+00
Metals					
Barium	1.0E+03	2.6E+03	1.0E+03	1.0E+03	1.7E+04
Chromium, Total	1.0E+02	1.8E+01	1.1E+02	1.2E+03	3.8E+01
Lead	7.5E+01	2.7E+02	4.0E+02	4.0E+02	2.7E+02
<u>Pesticides</u>					
4,4-DDD	6.6E-01	1.7E+01	6.6E-01	6.6E-01	5.6E+01
4,4-DDE	6.6E-01	1.2E+01	6.6E-01	6.6E-01	4.0E+01
4,4-DDT	6.6E-01	1.7E+01	6.6E-01	6.6E-01	5.7E+01
Aldrin	6.6E-01	1.6E-01	6.6E-01	6:6E-01	5.5E-01
Alpha-BHC	6.6E-01	1.6E-02	6.6E-01	6.6E-01	5.3E-02
Chlordane	9.2E+00	3.3E+00	9.2E+00	9.2E+00	1.1E+01
Beta-BHC	6.6E-01	5.5E-02	6.6E-01	6.6E-01	1.8E-01
Delta-BHC	8.3E+00	5.5E-02	2.5E+01	2.5E+01	1.8E-01
Dieldrin	6.6E-01	8.1E-02	6.6E-01	6.6E-01	1.4E-01
Endrin	1.0E+01	3.8E+00	1.0E+01	1.0E+01	2.5E+01
Endrin Ketone	1.0E+01	8.1E-02	1.0E+01	1.0E+01	8.1E-02
Gamma-BHC (Lindane)	6.6E-01	9.0E-02	6.6E-01	6.6E-01	3.0E-01
Heptachlor	6.6E-01	6.6E-01	6.6E-01	6.6E-01	1.1E+00
Heptachlor Epoxide	1.6E+00	8.2E-02	1.7E+00	1,7E+00	1.3E-01
Methoxychlor	1.0E+01	8.4E+01	1.0E+01	1.0E+01	5.5E+02
Toxaphene	1.1E+01	8.3E+00	1.1E+01	1.1E+01	9.3E+00

Table B-2 Toxicity Values

	Chronic Refe	erence Dose	Cancer Sto	pe Factor		
PARAMETER	Oral (RfDo) (mg/kg/day)	Inhalation (RfDi) (mg/kg/day)	Oral (SFo) (mg/kg/day)-1	Inhalation (SFi) (mg/kg/day)-1	Weight of Evidence	Source for Chronic RfDs and SFs
Volatile Organic Compounds (VOCs)						
1,1,2-Trichloroethane	4.0E-03	ND	5.7E-02	5.6E-02	С	IRIS
1,1-Dichloroethane	2.0E-01	ND	5.7E-03	5.6E-03	С	PPRTV, CALEPA
1,1-Dichloroethene	5.0E-02	5.7E-02	ND	ND	С	IRIS
Chlorobenzene	2.0E-02	1.4E-02	ND	ND	D	IRIS, PPRTV
Cis-1,2-Dichloroethene	2.0E-03	ND	ND	ND	NA	IRIS
Ethylbenzene	1.0E-01	2.9E-01	1.1E-02	8.8E-03	D	CALEPA, IRIS
Isopropylbenzene	1.0E-01	1.1E-01	ND	ND	D	ND
Tetrachloroethene	1.0E-02	7.7E-02	5.4E-01	2.1E-02	NA	IRIS, Cai EPA, ATSDR
Toluene	8.0E-02	1.4E+00	ND	ND	D	IRIS
Trichloroethene	5.0E-04	5.7E-04	5.0E-02	1.4E-02	Α	IRIS
Vinyl chloride (lifetime as adult)	3.0E-03	2.9E-02	7.2E-01	1.5E-02	Ą	IRIS
Xylenes, mixture	2.0E-01	2.9E-02	ND	ND	NA	· IRIS
Semi-volatile Organic Compounds	ř					
1,2,4-Trichlorobenzene	1.0E-02	5.7E-04	2,9E-02	ND	D .	IRIS,PPRTV
1,2-Dichlorobenzene	9.0E-02	5.7E-02	ND	ND	D	IRIS, HEAST
1,4-Dichlorobenzene	7.0E-02	2.3E-01	5.4E-03	3.9E-02	NA	CALEPA,ATSDR, IRIS
<u>Motals</u>						
Barium	2.0E-01	1.4E-04	ND	ND	D	IRIS
Chromium, Total	3.0E-03	2.9E-05	5.0E-01	2.9E+02	A/D	IRIS, NEW JERSEY
Lead	ND	ND	, ND	ND	B2	NCEA
Pesticides						
4,4-DDD	ND	ND	2.4E-01	2.4E-01	B2	IRIS, CALEPA
4,4-DDE	ND	ND	3.4E-01	3.4E-01	B2	IRIS, CALEPA
1,4-DDT	5.0E-04	ND	3.4E-01	3.4E-01	B2	IRIS
Aldrin	3.0E-05	ND	1.7E+01	1.7E+01	B2	IRIS
Alpha-BHC	8.0E-03	ND	6.3E+00	6.3E+00	B2	IRIS
Chlordane	5.0E-04	2.0E-04	3.5E-01	3.5E-01	B2	IRIS
Beta-BHC	ND	ND	1.8E+00	1.9E+00	С	IRIS
Delta-BHC	ND	ND	1.8E+00	1.8E+00	D	IRIS
Dieldrin	5.0E-05	ND	1.6E+01	1.6E+01	B2	IRIS
Endrin	3.0E-04	ND	ND	ND	D	IRIS
Endrin Ketone	ND	ND	ND	ND	NA	IRIS
Gamma-BHC (Lindane)	3.0E-04	ND	1.1E+00	1.1E+00	NA ·	IRIS
Heptachlor	5.0E-04	ND	4.5E+00	4.6E+00	B2	. IRIS
Heptachlor Epoxide	1.3E-05	ND	9.1E+00	9.1E+00	B2	iris
Methoxychlor	5.0E-03	ND	ND	ND	D	IRIS
Toxaphene	ND	ND	1.1E+00	1.1E+00	B2	IRIS

SOURCES: EPA Regional Screening Level Table, November 2011. IRIS Integrated Risk Information System

PPRTV Provisional Peer Reviewed Toxicity Values

CALEPA California Environmental Protection Agency HEAST Health Exposure Assessment Summary Tables

ATSDR Agency for Toxic Substances and Disease Registry NCEA National Center for Environmental Assessment NJ New Jersey Department of Environmental Protection

ND No Data

NA Not Available

Table B-3 Type 1 through Type 4 Ground Water RRS, mg/L

	<u>Chronic Ref</u> Oral	erence Dose Inhalation	Cancer S Oral	lope Factor Inhalation	Source for Chronic	Volatile? (a)	Type 1/ Type 3 (mg/L)	Type 2 Stan Adult	dard (mg/L)	Type 2 Stand	ard (mg/L)	Type 2 Overall	Overall Residential	Type 4 (n Industrial V		⊺ype 4 Overall	Overall Nonresident
Parameter	(mg/kg/day)	(mg/kg/day)	(mg/kg/day)-1	(mg/kg/day)-1	Rfds and CSFs	Volatile: (a)		Noncarcinogenic	Carcinogenic	Noncarcinogenic	Carcinogenic	Overan	Residential	Noncarcinogenic	Carcinogenic	IW	IW
olatile Organic Compounds (VOCs)																	
,1,2-Trichloroethane	4.0E-03	ND	5.7E-02	5.6E-02	IRIS	٧	5.0E-03	1.5E-01	2.5E-03	6.3E-02	3.8E-03	2.5E-03	5.0E-03	4.1E-01	4.6E-03	4.6E-03	5.0E-03
,1-Dichloroethane	2.0E-01	ND	5.7E-03	5.6E-03	PPRTV, CALEPA	V	4.0E+00	7.3E+00	2.5E-02	3.1E+00	3.8E-02	2.5E-02	4.0E+00	2.0E+01	4.6E-02	4.6E-02	4.0E+00
,1-Dichloroethene	5.0E-02	5.7E-02	ND	ND	IRIS	V	7.0E-03	3.4E-01	ND	1.0E-01	ND	1.0E-01	1.0E-01	5.2E-01	ND	5.2E-01	5.2E-01
Chlorobenzene	2.0E-02	1.4E-02	ND	ND	IRIS, PPRTV	V	1.0E-01	9.0E-02	ND	2.7E-02	ND	2.7E-02	1.0E-01	1.3E-01	ND	1.3E-01	1.3E-01
is-1,2-Dichloroethene	2.0E-03	ND	ND	ND	IRIS	V	7.0E-02	7.3E-02	ND	3.1E-02	ND	3.1E-02	7.0E-02	2.0E-01	ND .	2.0E-01	.2.0E-01
thylbenzene	1.0E-01	2.9E-01	1.1E-02	8.8E-03	CALEPA, IRIS	٧	7.0E-01	1,3E+00	1.5E-02	4.4E-01	2.4E-02	1.5E-02	7.0E-01	2.3E+00	2.9E-02	2.9E-02	7.0E-01
sopropylbenzene	1.0E-01	1.1E-01	· ND	ND	, ND	V	1.0E-03	DL 6.6E-01	ND	2.0E-01	ND	2.0E-01	2.0E-01	1.0E+00	ND	1.0E+00	1.0E+00
etrachloroethene	1.0E-02	7.7E-02	5.4E-01	2.1E-02	IRIS, Cal EPA, ATSDR	v	5.0E-03	2.2E-01	1.3E-03	7.9E-02	2.6E-03	1.3E-03	5.0E-03	4.4E-01	3.8E-03	3.8E-03	5.0E-03
Toluene	8.0E-02	. 1.4E+00	ND	ND	IRIS	v	1.0E+00	2.3E+00	ND	8.8E-01	ND	8.8E-01	1.0E+00	5.2E+00	ND.	5.2E+00	5.2E+00
Trichioroethene	5.0E-04	5.7E-04	5.0E-02	1.4E-02	IRIS	V	5.0E-03	3.4E-03	7.1E-03	1.0E-03	1,2E-02	1.0E-03	5.0E-03	5.2E-03	1.5E-02	5.2E-03	5.2E-03
/inyl chioride (lifetime as adult)	3.0E-03	2.9E-02	7.2E-01	1.5E-02	IRIS	V	2.0E-03	7.2E-02	1.1E-03	2.6E-02	2.2E-03	1.1E-03	2.0E-03	1.5E-01	3.3E-03	3.3E-03	3.3E-03
Xylenes, mixture	2.0E-01	2.9E-02	ND	· ND	IRIS	V	1.0E+01	2.1E-01	ND	5.9E-02	ND	5.9E-02	1.0E+01	2.9E-01	ND	2.9E-01	1.0E+01
														•			
iemi-volatile Organic Compounds ,2,4-Trichlorobenzene	1.0E-02	5.7E-04	2.9E-02	ND .	IRIS.PPRTV		7.05.00	4.45.00	0.05.00	4 05 00	0.05.00	4.05.00	7.05.00	5.05.00		5.05.00	7.05.00
,2,4-1 richlorobenzene ,2-Dichlorobenzene	9.0E-02	5.7E-04 5.7E-02	2.9E-02 ND	ND ND	IRIS, HEAST	V	7.0E-02	4.1E-03	2.9E-02	1.2E-03	6.3E-02	1.2E-03	7.0E-02	5.8E-03	9.9E-02	5.8E-03	7.0E-02
,4-Dichlorobenzene	7.0E-02	2.3E-01	5.4E-03	3.9E-02	CALEPA,ATSDR, IRIS	v	6.0E-01 7.5E-02	3.7E-01 1.0E+00	ND 4.2E-03	1.1E-01 3.3E-01	ND 6.1E-03	1.1E-01 4.2E-03	6.0E-01 7.5E-02	5.5E-01 1.8E+00	ND 7.2E-03	5.5E-01 7.2E-03	6.0E-01 7.5E-02
<b>Metals</b> Barium Dhromiu <b>m, Tota</b> l	2.0E-01 3.0E-03	(a) (a)	ND 5.0E-01	ND (a)	IRIS IRIS, NEW JERSEY		2.0E+00 1.0E-01	7.3E+00 1.1E-01	ND 1.7E-03	3.1E+00 4.7E-02	ND 3.7E-03	3.1E+00 1.7E-03	3.1E+00 1.0E-01	2.0E+01 3.1E-01	ND 5.7E-03	2.0E+01 5.7E-03	2.0E+01 1.0E-01
ead esticides	ND	. ND	ND ·	ND <sub>.</sub>	NCEA		1.5E-02	ND	ND .	· ND	ND	ND	1.5E-02	ND	ND ·	1.5E-02	1.5E-02
,4-DDD	ND	ND	2.4E-01	(a)	IRIS, CALEPA		1.0E-04	ND	3.5E-03	ND	7.6E-03	3.5E-03	3.5E-03	ND	1.2E-02	1.2E-02	1.2E-02
,4-DDE	ND	ND	3.4E-01	(a)	IRIS, CALEPA		1.0E-04	ND	2.5E-03	ND	5.4E-03	2.5E-03	2.5E-03	ND	8.4E-03	8.4E-03	8.4E-03
4-DDT	5.0E-04	ND	3.4E-01	(a)	!RIS		1.0E-04	1.8E-02	2.5E-03	7.8E-03	5.4E-03	2.5E-03	2.5E-03	5.1E-02	8.4E-03	8.4E-03	8.4E-03
ldrin	3.0E-05	ND	1.7E+01	(a)	IRIS		5.0E-05	1.1E-03	5.0E-05	4.7E-04	1.1E-04	5.0E-05	5.0E-05	3.1E-03	1.7E-04	1.7E-04	1.7E-04
ipha-BHC	8.0E-03	ND	6.3E÷00	(a)	IRIS		5.0E-05	2.9E-01	1.4E-04	1.3E-01	2.9E-04	1.4E-04	1.4E-04	8.2E-01	4.5E-04	4.5E-04	4.5E-04
hlordane	5.0E-04	(a)	3.5E-01	(a)	IRIS		2,0E-03	1.8E-02	2.4E-03	7.8E-03	5.2E-03	2.4E-03	2.4E-03	5.1E-02	8.2E-03	8.2E-03	8.2E-03
Beta-BHC	ND	ND	1.8E+00	(a)	IRIS		5.0E-05	ND	4.7E-04	ND	1.0E-03	4.7E-04	4.7E-04	ND	1.6E-03	1.6E-03	1.6E-03
elta-BHC	. ND	ND	1.8E+00	(a)	IRIS		5.0E-05	· ND	4.7E-04	ND	1.0E-03	4.7E-04	4.7E-04	ND	1.6E-03	1.6E-03	1.6E-03
ieldrin	5.0E-05	ND	1.6E+01	(a)	IRIS		1.0E-04	1.8E-03	5.3E-05	7.8E-04	1.1E-04	5.3E-05	1.0E-04	5.1E-03	1.8E-04	1.8E-04	1.8E-04
ndrin	3.0E-04	, ND	ND	ND	IRIS		2.0E-03	1.1E-02	ND	4.7E-03	ND	4.7E-03	4.7E-03	3.1E-02	ND	3.1E-02	3.1E-02
ndrin Ketone	ND	ND	ND	ND	IRIS		1.0E-04	DL ND -	ND	ND:	ND .	ND	1.0E-04	ND	ND	ND	1.0E-04
amma-BHC (Lindane)	3.0E-04	ND	1.1E+00	(a)	IRIS		2.0E-04	1.1E-02	7.7E-04	4.7E-03	1.7E-03	7.7E-04	7.7E-04	3.1E-02	2.6E-03	2.6E-03	2.6E-03
leptachlor	5.0E-04	ND	4.5E+00	(a)	IRIS ·		4.0E-04	1.8E-02	1.9E-04	7.8E-03	4.1E-04	1.9E-04	4.0E-04	5.1E-02	6.4E-04	6.4E-04	6,4E-04
leptachlor Epoxide	1.3E-05	ND	9.1E+00	(a)	IRIS		2.0E-04	4.7E-04	9.4E-05	2.0E-04	2.0E-04	9.4E-05	2.0E-04	1.3E-03	3.1E-04	3.1E-04	3.1E-04
Methoxychlor	5.0E-03	ND	ND	ND	IRIS		4.0E-02	. 1.8E-01	ND	7.8E-02	ND	7.8E-02	7.8E+02	5.1E-01	, ND	5.1E-01	5.1E-01
Toxaphene	ND	ND	1.1E+00	(a)	IRIS		3.0E-03	ND ·	7.7E-04	ND	. 1.7E-03	7.7E-04	3.0E-03	ND	. 2.6E-03	2.6E-03	3.0E-03
					Equation 2 (Noncarcinogens				Equation 1 (Carcinoge								

IRIS Integrated Risk Information System
HEAST - Health Effects Assessment Summary Table FY1997, USEPA.
NCEA - National Center for Exposure Assessment, USEPA.
PPRTV - Provisional Peer Reviewed Toxicity Values, USEPA.
Cal EPA - California Environmental Protection Agency

ND Toxicity values not available
DL Detection limit
(a) Compound is not volatile in water.

THI x BW x AT x 365days/year

EF x ED x [(1/RfDi x K x IRa) + (1/RfDo x IRw)]

Where:
THI = Target Hazard Index =
BW = Body Weight =
AT = Averaging Time =
EF = Exposure Frequency =

ED = Exposure Duration =
RfDi = Inhalation Reference Dose =
K = Volatilization Factor = 0.0005 x 1000 L/m3 =
IRa = Inhalation Rate for Air = RfDo = Oral Reference Dose =
IRw = Ingestion Rate for Water =
TR = Target Risk =

SFo = Oral Cancer Slope Factor = SFi = Inhalation Cancer Slope Factor =

TR x BW x AT x 365days/year

EF.x ED x [(SFi x K x IRa) + (SFo x IRw)]

Type 2 Adult

70 kg 30 years (noncarc.); 70 (carc 350 days/year 15 kg 6 years (noncarc.); 70 (carcinogens) 350 days/year 30 years Chemical Specific 0.5 L/m3 20 m3/day Chemical Specific 6 years Chemical Specific 0.5 L/m3 15 m3/day Chemical Specific

1 L/day
0.00001 2 L/day 0.00001

Type 2 Parameters Chil]d

Chemical Specific Chemical Specific Chemical Specific Chemical Specific Type 4 Industrial Worker Parameters

70 kg 25 years for noncarcinogens; 70 years for carc. 250 day/year

25 year Chemical Specific 0.5 L/m3 20 m3/day Chemical Specific 1 L/day . 0.00001

Chemical Specific Chemical Specific

Table B-4 Type 1 and Type 3 Soil RRS, mg/kg

					_		Risk-B		Risk-Based		Risk-B		Risk-Based	Subsurface	Surface
24244555	Volatilization	HSRA Type I	HSRA	Type I	Type 1		Residentia		Soil	Overall	Nonresident		Soil	Soil	Soil
PARAMETER	Factor (m³/kg)	Soil Criteria (mg/kg) (a)	Appendix I Value (mg/kg) (b)	Groundwater RRS (mg/L) (c)	GW RRS x 100 (mg/kg)	Number 1 (mg/kg) (d)	Noncarcinogenic (mg/kg) (e)	Carcinogenic (mg/kg) (f)	Type 1 RRS (mg/kg) (g)	Type 1 RRS (mg/kg) (h)	Noncarcinogenic (mg/kg) (e)	Carcinogenic (mg/kg) (f)	Type 3 RRS (mg/kg) (g)	Type 3 RRS (mg/kg) (i)	Type 3 i (mg/kg
Volatile Organic Compounds (VOCs)															
1,1,2-Trichloroethane	8.8E+03	ND	5.0E-01	5.0E-03	5.0E-01	5.0E-01	2.6E+03	1.7E+02	1.7E+02	5.0E-01	8.2E+03	2.2E+02	2.2E+02	5.0E-01	5.0E-
1,1-Dichloroethane	2.1E+03	ND	3.0E-02	4.0E+00	4.0E+02	4.0E+02	1.3E+05	4.2E+02	4.2E+02	4.0E+02	4.1E+05	5.4E+02	5.4E+02	4.0E+02	4.0E
1,1-Dichloroethene	8.7E+02	ND	3.6E-01	7.0E-03	7.0E-01	7.0E-01	2.4E+02	ND	2.4E+02	7.0E-01	2.5E+02	ND	2.5E+02	7.0E-01	7.0
Chlorobenzene	8.6E+03	ND	4.2E+00	1.0E-03	1.0E+01	1.0E+01	5.6E+02	ND	5.6E+02	1.0E+01	6.1E+02	ND	6.1E+02	1.0E+01	1.0
cis-1,2-Dichloroethene	2.7E+03	ND	5.3E-01	7.0E-02	7.0E+00	7.0E+00	1.3E+03	ND	1.3E+03	7.0E+00	4.1E+03	ND ND	4.1E+03	7.0E+00	7.0
Ethylbenzene	7.6E+03	ND	2.0E+01	7.0E-01	7.0E+00	7.0E+00 7.0E+01	9.2E+03	9.2E+01	9.2E+01	7.0E+00 7.0E+01	1.1E+04	1.2E+02	1.2E+02	7.0E+01	7.0
Isopropylbenzene	8.4E+03	ND	2.2E+01		7.0E+01 RL 1.0E-01	2.2E+01	4.2E+03	9.2E+01 ND	4.2E+03	2.2E+01	4.6E+03	ND	4.6E+03	2.2E+01	2.2
Tetrachloroethene	2.7E+03	ND	1.8E-01	5.0E-03	5.0E-01	5.0E-01	8.6E+02	9.4E+00	9.4E+00	5.0E-01	4.6E+03 9.9E+02	1.5E+01	4.6E+03 1.5E+01	5.0E-01	5.0
Toluene	5.6E+03	ND	1.4E+01	1.0E+00	1.0E+02	1.0E+02	2.2E+04	9.4E+00 ND	9.4E+00 2.2E+04	1.0E+02	9.9E+02 3.2E+04	ND	3.2E+04	1.0E+02	1.0
Trichloroethene	2.5E+03	ND	1.3E-01		5.0E-01	5.0E-01				5.0E-01		2.5E+01		5.0E+02	5.0
Vinyl chloride (lifetime as adult)	2.5E+03 5.8E+02	ND		5.0E-03 2.0E-03	2.0E-01	2.0E-01	6.7E+00	1.9E+01	6.7E+00		7.1E+00		7.1E+00		
	7.9E+03	ND ND	4.0E-02 2.0E+01				7.9E+01	3.6E+00	3.6E+00	2.0E-01	8.5E+01	5.1E+00	5.1E+00	2.0E-01	2.0
Xylenes, mixture	7.9E+03	NU .	2.0E+01	1.0E+01	1.0E+03	1.0E+03	1.1E+03	ND	1.1E+03	1.0E+03	1.2E+03	ND	1.2E+03	1.0E+03	1.0
svocs															
1.2.4-Trichlorobenzene	4.1E+04	ND	1.1E+01	7.0E-02	7.0E+00	1.1E+01	1.1E+02	5.2E+02	1.1E+02	1.1E+01	1.2E+02	2.0E+03	1.2E+02	1.1E+01	1.1
1.2-Dichlorobenzene	1.6E+04	ND	2.5E+01	6.0E-01	6.0E+01	6.0E+01	4.1E+03	ND	4.1E+03	6.0E+01	4.5E+03	ND ND	4.5E+03	6.0E+01	6.0
1,4-Dichlorobenzene	1.4E+04	ND ·	6.8E+00	7.5E-02	7.5E+00	7.5E+00	1.2E+04	4.1E+01	4.1E+01	7.5E+00	1.5E+04	5.2E+01	5.2E+01	7.5E+00	7.5
<u>Metals</u>															
Barium	NA	1.0E+03	5.0E+02	2.0E+00	2.0E+02	5.0E+02	1.2E+05	ND	1.2E+05	1.0E+03	3.6E+05	ND	3.6E+05	1.0E+03	1.0
Chromium, Total	NA	1.0E+02	1.2E+03	1.0E-01	1.0E+01	1.2E+03	1.9E+03	2.9E+01	2.9E+01	1.0E+02	6.1E+03	1.1E+02	1.1E+02	1.2E+03	1.1
Lead	'NA	7.5E+01	4.0E+02	1.5E-02	1.5E+00	4.0E+02	ND	ND	ND	7.5E+01	ND	ND	4.0E+02	4.0E+02	4.0
Pesticides															
4,4-DDD	NA	ND	6.6E-01	1.0E-04	1.0E-02	6.6E-01	ND	6.2E+01	6.2E+01	6.6E-01	ND	2.4E+02	2.4E+02	6.6E-01	6.6
4,4-DDE	. NA	ND	6.6E-01	1.0E-04	1.0E-02	6.6E-01	ND	4.4E+01	4.4E+01	6.6E-01	ND	1.7E+02	1.7E+02	6.6E-01	6.6
4,4-DDT	NA	. ND	6.6E-01	1.0E-04	1.0E-02	6.6E-01	3.2E+02	4.4E+01	4.4E+01	6.6E-01	1.0E+03	1.7E+02	1.7E+02	6.6E-01	6.6
Aldrin	NA	ND	6.6E-01		RL 5.0E-03	6.6E-01	1.9E+01	8.8E-01	8.8E-01	6.6E-01	6.1E+01	3.4E+00	3.4E+00	6.6E-01	6.6
Alpha-BHC	NA	, ND	6.6E-01		RL 5.0E-03	6.6E-01	5.1E+03	2.4E+00	2.4E+00	6.6E-01	1.6E+04	9.1E+00	9.1E+00	6.6E-01	6.6
Chlordane	NA	ND	9.2E+00	2.0E-03	2.0E-01	9.2E+00	3.2E+02	4.3E+01	4.3E+01	9.2E+00	1.0E+03	1.6E+02	1.6E+02	9.2E+00	9.2
Beta-BHC	, NA	ND	6.6E-01		RL 5.0E-03	6.6E-01	ND .	8.3E+01	8.3E+01	6.6E-01	ND	3.2E+02	3.2E+02	6.6E-01	6.6
Deita-BHC	NA	ND	2.5E+01		RL 5.0E-03	2.5E+01	ND	8.3E+00	8.3E+00	8.3E+00	ND	3.2E+01	3.2E+01	2.5E+01	2.5
Dieldrin	NA NA	ND	6.6E-01		RL 1.0E-02	6.6E-01	3.2E+01	9.3E-01	9.3E-01	6.6E-01	1.0E+02	3.6E+00	3.6E+00	6.6E-01	6.6
Endrin	NA	ND	1.0E+01	2.0E-03	2.0E-01	1.0E+01	1.9E+02	ND	1.9E+02	1.0E+01	6.1E+02	ND	6.1E+02	1.0E+01	1.0
Endrin Ketone	NA	ND	1.0E+01	1.0E-04 F	RL 1.0E-02	1.0E+01	ND	ND	ND	1.0E+01	ND	ND	ND	1.0E+01	1.0
Gamma-BHC (Lindane)	NA	ND	6.6E-01	2.0E-04	2.0E-02	6.6E-01	1.9E+02	1.4E+01	1.4E+01	6.6E-01	6.1E+02	5.2E+01	5.2E+01	6.6E-01 .	6.6
Heptachfor	NA	ND	6.6E-01	4.0E-04	4.0E-02	6.6E-01	3.2E+02	3.3E+00	3.3E+00	6.6E-01	1.0E+03	1.3E+01	1.3E+01	6.6E-01	6.6
Heptachlor Epoxide	NA	ND	1.7E+00	2.0E-04	2.0E-02	1.7E+00	8.3E+00	1.6E+00	1.6E+00	1.6E+00	2.7E+01	6.3E+00	6.3E+00	1.7E+00	1.7
Methoxychlor	NA	ND	1.0E+01	4.0E-02	4.0E+00	1.0E+01	3.2E+03	ND	3.2E+03	1.0E+01	1.0E+04	ND .	1.0E+04	1.0E+01	1.01
Toxaphene	NA	ND	1.1E+01	3.0E-03	3.0E+01	1.1E+01	. ND	1.4E+01	1.4E+01	1.1E+01	ND	5.2E+01	5.2E+01	1.1E+01	1.1

N	o	s	:

Table 2, Appendix III of HSRA regulations
Appendix I of HSRA regulations. Value is the soil concentration that triggers notification requirements.
Table 1, Appendix III of HSRA regulations. For those substances not listed, reporting limit used as the Type I groundwater RRS. Value is the highest of the Appendix I value and the groundwater RRS x 100.

THI x BW x ATn x 365days/year

EF x ED x [(1/RfDi x (1/VF + 1/PEF) x InhR) + (1/RfDo x Irs x CF)]

TR x BW x ATc x 365days/year

EF x ED x [(SFi x (1/VF + 1/PEF) x lnhR) + (SFo x lrs x CF)]

Minimum of noncarcinogenic and carcinogenic concentrations.

Minimum concentration of Number 1 and Type 1 RRS.

Maximum concentration of Number 1 and HSRA Type 1 Soil Criteria.

Minimum concentration of the risk-based soil Type 3 RRS and the subsurface soil Type 3 RRS.

Reporting Limit

Risk Reduction Standard

Groundwater

Not Determined - Can not be calculated

(g) (h) (i) (j) RL RRS GW ND

	Residential	Nonresidential	
Exposure Parameters	Type 1	Type 3	Unit
Total Hazard Index (THI)	1	1	unitless
Target Risk (TR)	1.E-05	1.E-05	unitless
Target Risk (TR) WOE - C	1.E-04	1.E-04	
Body Weight (BW)	70	70	kg
Averaging Time, Carcinogen (ATc)	70	70	yrs
Averaging Time, Noncarcinogen (ATn)	30	25	yrs
Exposure Duration (ED)	30	25	yrs
Exposure Frequency (EF)	350	250	days/yr
Soil Ingestion Rate (IRs)	114	50	mg/day
Air Inhalation Rate (InhR)	15	20	m³/day
Particulate Emission Factor (PEF)	4.63E+09	4.63E+09	m³/kg
Conversion Factor (CF)	1.E-06	1.E-06	kg/mg
Volatilization Factor (VF)	Chemical-specific	hemical-specific	m³/kg

Table B-5 Soil to Ground water Leachability

	K <sub>d</sub> (L/kg) (1)	K₀。 (L/kg) (2)	Source	Ø <sub>w</sub>	Øa	H' (unitless)	Øw+Øa*H'/Þ <sub>b</sub>	Groundwater Type 1/3 RRS (C <sub>w</sub> , mg/L)	C <sub>w</sub> *20	Pathway Type 1/3 C <sub>s</sub> (mg/kg)	Groundwater Type 2 RRS (C <sub>w</sub> , mg/L)	C <sub>w</sub> *20	Pathway Type 2 C <sub>s</sub> (mg/kg)	Residential Soil Leaching Criteria (3)	Industrial Worker Groundwater Type 4 RRS (C <sub>w</sub> , mg/L)	C <sub>w</sub> *20	Pathway Type 4 C <sub>s</sub> (mg/kg)	Industrial Worker Soil Leaching Criteria (4)
Volatile Organic Compounds (VOCs)																		
1,1,2-Trichloroethane	1.2E-01	6.1E+01	RSL	3.0E-01	1.3E-01	3.4E-02	2.0E-01	5.0E-03	1.0E-01	3.2E-02	2.5E-03	5.1E-02	1.6E-02	3.2E-02	-4.6E-03	9.3E-02	3.0E-02	3.2E-02
1,1-Dichloroethane	6.4E-02	3.2E+01	RSL	3.0E-01	1.3E-01	2.3E-01	2.2E-01	4.0E+00	8.0E+01	2.3E+01	2.5E-02	5.1E-01	1.4E-01	2.3E+01	4.6E-02	9.3E-01	2.6E-01	2.3E+01
1,1-Dichloroethene	6.4E-02	3.2E+01	RSL	3.0E-01	1.3E-01	1.1E+00	3.0E-01	7.0E-03	1.4E-01	5.0E-02	1.0E-01	2.1E+00	7.4E-01	7.4E-01	5.2E-01	1.0E+01	3.8E+00	3.8E+00
Chlorobenzene	4.7E-01	2.3E+02	RSL	3.0E-01	1.3E-01	1.3E-01	2.1E-01	1.0E-01	2.0E+00	1:4E+00	2.7E-02	5.3E-01	3.6E-01	1.4E+00	1.3E-01	2.7E+00	1.8E+00	1.8E+00
Cis-1,2-Dichloroethene	7.9E-02	4.0E+01	RSL	3.0E-01	1.3E-01	1.7E-01	2.1E-01	7.0E-02	1.4E+00	4.1E-01	3.1E-02	6.3E-01	1.8E-01	4.1E-01	2.0E-01	4.1E+00	1.2E+00	1.2E+00
Ethylbenzene	8.9E-01	4.5E+02	RSL	3.0E-01	1.3E-01	3.2E-01	2.3E-01	7.0E-01	1.4E+01	1.6E+01	1.5E-02	3.1E-01	3.5E-01	1.6E+01	2.9E-02	5.8E-01	6.5E-01	1.6E+01
sopropylbenzene	1.4E+00	7.0E+02	RSL		1.3E-01	4.7E-01	2.4E-01	1.0E-03	2.0E-02	3.3E-02	2.0E-01	4.0E+00	6.5E+00	6.5E+00	1.0E+00	2.0E+01	3.3E+01	3.3E+01
Tetrachloroethene	1.9E-01	9.5E+01	RSL		1.3E-01	7.2E-01	2.6E-01	5.0E-03	1.0E-01	4.5E-02	1.3E-03	2.6E-02	1.2E-02	4.5E-02	3.8E-03	7.6E-02	3.5E-02	4.5E-02
Toluene	4.7E-01	2.3E+02	RSL ·		1.3E-01	2.7E-01	2.2E-01	1.0E+00	2.0E+01	1.4E+01	8.8E-01	1.8E+01	1.2E+01	1.4E+01	5.2E+00	1.0E+02	7.2E+01	7.2E+01
Trichloroethene	1.2E-01	6.1E+01	RSL		1.3E-01	4.0E-01	2.3E-01	5.0E-03	1.0E-01	3.6E-02	1.0E-03	2.1E-02	7.3E-03	3.6E-02	5.2E-03	1.0E-01	3.7E-02	3.7E-02
Vinyl chloride (lifetime as adult)	4.3E-02	2.2E+01	RSL		1.3E-01	1.1E+00	3.0E-01	2.0E-03	4.0E-02	1.4E-02	1.1E-03	2.1E-02	7.2E-03	1.4E-02	3.3E-03	6.5E-02	2.2E-02	2.2E-02
Xylenes, mixture	7.7E-01	3.8E+02	RSL		1.3E-01	2.1E-01	2.2E-01	1.0E+01	2.0E+02	2.0E+02	5.9E-02	1.2E+00	1.2E+00	2.0E+02	2.9E-01	5.8E+00	5.7E+00	2.0E+02
Aylondo, Mixalo	7.7201	0.02 02	NOL	0.02-01	1.02-01	2.12-01	2.26-01	1.02.01	2.02.02	2.02.02	5.52-02	1.21.00	1.22.700	2,02 102	2.36-01	3.5L · 00	5.7 L 100	2.02.02
Semi-volatile Organic Compounds																		
1,2,4-Trichlorobenzene	2.7E+00	1.4E+03	RSL	3.0E-01	1.3E-01	5.8E-02	2.1E-01	7.0E-02	1.4E+00	4.1E+00	1.2E-03	2.4E-02	6.9E-02	4.1E+00	5.8E-03	1.2E-01	3.4E-01	4.1E+00
1,2-Dichlorobenzene	7.7E-01	3.8E+02	RSL		1.3E-01	7.8E-02	2,1E-01	6.0E-01	1.2E+01	1.2E+01	1.1E-01	2.2E+00	2.1E+00	1.2E+01	5.5E-01	1.1E+01	1.1E+01	1,2E+01
1,4-Dichlorobenzene	7.5E-01	3.8E+02	RSL		1.3E-01	9.9E-02	2.1E-01	7.5E-02	1.5E+00	1.4E+00	4.2E-03	8.5E-02	8.2E-02	1.4E+00	7.2E-03	1.4E-01	1.4E-01	1.4E+00
Metals								,										
Barium	4.1E+01		RSL	3.0E-01	1.3E-01	0.0E+00	2.0E-01	2.0E+00	4.0E+01	1.6E+03	3.1E+00	6.3E+01	2.6E+03	2.6E+03	2.0E+01	4.1E+02	1.7E+04	1.7E+04
Chromium, Total	1.9E+01		RSL	3.0E-01	1.3E-01	0.0E+00	2.0E-01	1.0E-01	2.0E+00	3.8E+01	1.7E-03	3.4E-02	6.5E-01	3.8E+01	5.7E-03	1.1E-01	2.2E+00	3.8E+01
Lead	9.0E+02		RSL		1.3E-01	0.0E+00	2.0E-01	1.5E-02	3.0E-01	2.7E+02	ND	NA	NA	2.7E+02	1.5E-02	3.0E-01	2.7E+02	2.7E+02
Pesticides																		
4,4-DDD	2.4E+02	1.2E+05	RSL	3.0E-01	1.3E-01	2.7E-04	2.0E-01	1.0E-04	2.0E-03	4.7E-01	3.5E-03	7.1E-02	1.7E+01	1.7E+01	1.2E-02	2.4E-01	5.6E+01	5.6E+01
4,4-DDE	2.4E+02	1.2E+05	RSL	3.0E-01	1.3E-01	1.7E-03	2.0E-01	1.0E-04	2.0E-03	4.7E-01	2.5E-03	5.0E-02	1.2E+01	1.2E+01	8.4E-03	1.7E-01	4.0E+01	4.0E+01
4,4-DDT	3.4E+02	1.7E+05	RSL	3.0E-01	1.3E-01	3.4E-04	2.0E-01	1.0E-04	2.0E-03	6.7E-01	2.5E-03	5.0E-02	1.7E+01	1.7E+01	8.4E-03	1.7E-01	5.7E+01	5.7E+01
Aldrin	1.6E+02	8.2E+04	RSL	3.0E-01	1.3E-01	1.8E-03	2.0E-01	5.0E-05	1.0E-03	1.6E-01	5.0E-05	.1.0E-03	1.6E-01	1.6E-01	1.7E-04	3.4E-03	5.5E-01	5.5E-01
Alpha-BHC	5.6E+00	2.8E+03	RSL	3.0E-01	1.3E-01	2.1E-04	2.0E-01	5.0E-05	1.0E-03	5.8E-03	1.4E-04	2.7E-03	1.6E-02	1.6E-02	4.5E-04	9.1E-03	5.3E-02	5.3E-02
Chlordane	6.8E+01	3.4E+04	RSL	3.0E-01	1.3E-01	2.0E-03	2.0E-01	2.0E-03	4.0E-02	2.7E+00	2.4E-03	4.9E-02	3.3E+00	3.3E+00	8.2E-03	1.6E-01	1.1E+01	1.1E+01
Beta-BHC	5.6E+00	2.8E+03	RSL	3.0E-01	1.3E-01	2.1E-04	2.0E-01	5.0E-05	1.0E-03	5.8E-03	4.7E-04	9.5E-03	5.5E-02	5.5E-02	1.6E-03	3.2E-02	1.8E-01	1.8E-01
Delta-BHC	5.6E+00	2.8E+03	RSL	3.0E-01	1.3E-01	2.1E-04	2.0E-01	5.0E-05	1.0E-03	5.8E-03	4.7E-04	9.5E-03	5.5E-02	5.5E-02	1.6E-03	3.2E-02	1.8E-01	1.8E-01
Dieldrin	4.0E+01	2.0E+04	RSL		1.3E-01	4.1E-04	2.0E-01	1.0E-04	2.0E-03	8.1E-02	5.3E-05	1.1E-03	4.3E-02	8.1E-02	1.8E-04	3.6E-03	1.4E-01	1.4E-01
Endrin	4.0E+01	2.0E+04	RSL	-	1.3E-01	4.1E-04	2.0E-01	2.0E-03	4.0E-02	1.6E+00	4.7E-03	9.4E-02	3.8E+00	3.8E+00	3.1E-02	6.1E-01	2.5E+01	2.5E+01
Endrin Ketone	4.0E+01	2.0E+04	RSL		1.3E-01	4.1E-04	2.0E-01	1.0E-04	2.0E-03	8.1E-02	ND	ND	ND .	8.1E-02	ND	ND .	ND	8.1E-02
Gamma-BHC (Lindane)	5.6E+00	2.8E+03	RSL		1.3E-01	2.1E-04	2.0E-01	2.0E-04	4.0E-03	2.3E-02	7.7E-04	1.5E-02	9.0E-02	9.0E-02	2.6E-03	5.2E-02	3,0E-01	3.0E-01
Heptachlor	8.3E+01	4.1E+04	RSL		1.3E-01	1.2E-02	2.0E-01	4.0E-04	8.0E-03	6.6E-01	1.9E-04	3.8E-03	3.1E-01	6.6E-01	6.4E-04	1.3E-02	1.1E+00	1.1E+00
Heptachlor Epoxide	2.0E+01	1.0E+04	RSL		1.3E-01	8.6E-04	2.0E-01	2.0E-04	4.0E-03	8.2E-02	9.4E-05	1.9E-03	3.8E-02	8.2E-02	3.1E-04	6.3E-03	1.3E-01	1.3E-01
Methoxychior	5.4E+01	2.7E+04	RSL		1.3E-01	8.3E-06	2.0E-01	4.0E-02	8.0E-01	4.3E+01	7.8E-02	1.6E+00	8.4E+01	8.4E+01	5.1E-01	1.0E+01	5.5E+02	5.5E+02
Toxaphene	1.5E+02	7.7E+04	RSL		1.3E-01	2.5E-04	2.0E-01	3.0E-03	6.0E-02	9.3E+00	7.7E-04	1.5E-02	2.4E+00	9.3E+00	2.6E-03	5.2E-02	8.0E+00	9.3E+00

NA Not Available

ND No Data Available

- RSL EPA Regional Screening Level
  HSDB Toxnet Hazardous Substances Data Base

  1. Kd values taken from USEPA Regional Screening Table User's Guide.

  2. Koc values taken from the EPA RSL Chemical-specific Parameters Supporting Table November 2011 unless otherwise noted. K<sub>d</sub> = K<sub>oc</sub> \* f<sub>oc</sub> where f<sub>oc</sub> equals 0.002.
- 3. Residential leaching value is the higher of the values based on the Type 1 and Type 2 groundwater RRS.

  4. Non-residential leaching value is the higher of the values based on Type 3 and Type 4 groundwater RRS.
- Ø<sub>w</sub>Water-filled soil porosity = 0.3 (L/L)
- Ø<sub>w</sub> Water-filled soil porosity = 0.3 (L/L)
   Ø<sub>a</sub> Air-filled soil porosity = 0.13 (L/L)
   H' Dimensionless Henry Law Constant (HLC x 41) (unitiess)
   Dry soil bulk density = 1.5 kg/L
   RRS Risk Reduction Standard
   C<sub>w</sub> Target Leachate Concentration (mg/L)

- C<sub>s</sub> Screening Level in soil (mg/kg)

Table B-6 Type 2 Soil RRS, mg/kg

	Volatilization	Residential	Risk-Ba Residentia		Risk-Ba Residentia		Risk-Based Soil	Overall Type 2 RR
PARAMETER	Factor	Leaching DAF=20	Noncarcinogenic	Carcinogenic	Noncarcinogenic	Carcinogenic	Type 2 RRS	DAF=20
	(m³/kg)	(mg/kg)	(mg/kg) (a)	(mg/kg) (b)	(mg/kg) (a)	(mg/kg) (b)	(mg/kg) (c)	(mg/kg) (c
								÷
Volatile Organic Compounds (VOCs)								
1,1,2-Trichloroethane	8.8E+03	3.2E-02	3.1E+02	1.7E+01	2.9E+03	1.3E+01	1.3E+01	3.2E-02
1.1-Dichloroethane	2.1E+03	2.3E+01	1.6E+04	4.5E+01	1.5E+05	3.2E+01	3.2E+01	2.3E+01
1,1-Dichloroethene	8.7E+02	7.4E-01	5.1E+01	ND	1.8E+02	ND	5.1E+01	7.4E-01
Chlorobenzene	8.6E+03	1.4E+00	1.2E+02	ND	4.3E+02	ND	1.2E+02	1.4E+00
cis-1,2-Dichloroethene	2.7E+03	4.1E-01	1.6E+02	ND	1.5E+03	ND	1.6E+02	4.1E-01
Ethylbenzene	7.6E+03	1.6E+01	1.8E+03	9.4E+01	7.3E+03	7.1E+01	7.1E+01	1.6E+01
Isopropylbenzene	8.4E+03	6.5E+00	8.6E+02	ND	3.2E+03	ND .	8.6E+02	6.5E+00
Tetrachloroethene	2.7E+03	4.5E-02	1.7E+02	8.0E+00	6.8E+02	8.0E+00	8.0E+00	4.5E-02
Toluene				ND	1.9E+04	ND	3.6E+03	1.4E+01
	5.6E+03	1.4E+01	3.6E+03					
Trichloroethene	2.5E+03	3.6E-02	1.4E+00	1.9E+01	5.0E+00	1.4E+01	1.4E+00	3.6E-02
Vinyl chloride (lifetime)	5.8E+02	1.4E-02	1.6E+01	3.4E+00	6.0E+01	2.8E+00	2.8E+00	1.4E-02
Xylenes, mixture	7.9E+03	2.0E+02	2.3E+02	ND	8.3E+02	ND	2.3E+02	2.0E+02
svocs								
1,2,4-Trichlorobenzene	4.1E+04	4.1E+00	2.4E+01	3.1E+02	8.5E+01	5.9E+02	2.4E+01	4.1E+00
1,2-Dichlorobenzene	1.6E+04	1.2E+01	8.3E+02	ND	3.1E+03	ND	8.3E+02	1.2E+01
1,4-Dichlorobenzene	1.4E+04	1.4E+00	2.1E+03	4.3E+01	9.7E+03	3.1E+01	3.1E+01	1.4E+00
<u>Metals</u>								
Barium	NA	2.6E+03	1.5E+04	ND	1.4E+05	ND	1.5E+04	2.6E+03
Chromium, Total	NA	3.8E+01	2.3E+02	1.8E+01	2.2E+03	3.3E+01	1.8E+01	1.8E+01
ead	NA	2.7E+02	4.2E+02	NĎ	ND	ND	4.2E+02	2.7E+02
Pesticides	NA	4.75.04	ND	3.8E+01	ND	7.1E+01	3.8E+01	1.7E+01
4,4-DDD 4,4-DDE	NA NA	1.7E+01 1.2E+01	ND ND	2.7E+01	ND ND	5.0E+01	2.7E+01	1.7E+01
4,4-DDT	NA NA	1.2E+01 1.7E+01	3.9E+01	2.7E+01	3.7E+02	5.0E+01 5.0E+01	2.7E+01 2.7E+01	1.7E+01
Aldrin	NA NA	1.6E-01	2.3E+00	5.4E-01	3.7E+02 2.2E+01	1.0E+00	5.4E-01	1.6E-01
	NA ·	1.6E-01	6.3E+02	1.4E+00	5.8E+03	2,7E+00	1.4E+00	1.6E-02
Alpha-BHC Chlordane	NA NA	3.3E+00	3.9E+01	2.6E+01	3.6E+02	4.9E+01	2.6E+01	3.3E+00
Chloroane Beta-BHC	NA NA	5.5E-02	3.9E+01	5.1E+00	3.6E+02 ND	9.5E+00	5.1E+00	5.5E-02
Beta-BHC Delta-BHC	NA NA	5.5E-02 5.5E-02	ND ND	5.1E+00	ND	9.5E+00	5.1E+00 5.1E+00	5.5E-02
Delarin	NA NA	8.1E-02	3.9E+00	5.7E-01	3.7E+01	9.5E+00 1.1E+00	5.7E-01	8.1E-02
Endrin Endrin	NA NA	3.8E+00	2.3E+01	5.7E-01 ND	2.2E+02	ND	2.3E+01	3.8E+00
Endrin Ketone	NA NA	8.1E-02	ND	ND	2.2E+02 ND	ND	ND	8.1E-02
Endrin Retone Gamma-BHC (Lindane)	NA NA	9.0E-02	2.3E+01	8.3E+00	2,2E+02	1.5E+01	8.3E+00	9.0E-02
Jamma-BHC (Lindane) Heptachlor	NA NA	9.0E-02 6.6E-01	3.9E+01	2.0E+00	2,2E+02 3,7E+02	3.8E+00	2.0E+00	9.0E-02 6.6E-01
Heptachlor Heptachlor Epoxide	NA NA	8.2E-02	3.9E+01 1.0E+00	1.0E+00	9.5E+00	1.9E+00	1.0E+00	8.2E-02
Methoxychlor  Methoxychlor	NA NA	8.4E+01	3.9E+02	ND	3.7E+03	ND	3.9E+02	8.4E+01
								8.3E+00
Toxaphene	NA	9.3E+00	ND	8.3E+00	ND	1.5E+01	8.3E+00	8.

Notes: RRS ND	Risk Reduction Standard Not Determined - Can not be calculated		
(a)	THI x BW x ATn x 365days/year  EF x ED x [(1/RfDi x (1/VF + 1/PEF) x InhR) + (1/RfDo x Irs x CF)]		
(b)	TR x BW x ATc x 365days/year  EF x ED x [(SFi x (1/VF + 1/PEF) x lnhR) + (SFo x lrs x CF)]		
(c)	Minimum of noncarcinogenic and carcinogenic concentrations.  Minimum concentration of Leaching Value and Risk-based Value.	Residential Child	Residential Adult
	Exposure Parameters	Type 2	Type 2
	Total Hazard Index (THI)	1	1
	Target Risk (TR)	1.E-05	1.E-05
	Body Weight (BW)	15	70
	Averaging Time, Carcinogen (ATc)	70	70
	Averaging Time, Noncarcinogen (ATn)	6	30
	Exposure Duration (ED)	. 6	30
	Exposure Frequency (EF)	350	350
	Soil Ingestion Rate (IRs)	200	100
	Air Inhalation Rate (InhR)	15	20
	Particulate Emission Factor (PEF)	4.63E+09	4.63E+09
	Conversion Factor (CF)	1.E-06	1.E-06
	Volatilization Factor (VF)	Chemical-specific	Chamical appoint

Table B-7 Type 4 Soil RRS, mg/kg Default Industrial Worker

	Volatilization	Nonresidential Leaching	Risk-Ba Industrial		Risk-Based Soil	Overall IW Type 4 RRS
PARAMETER	Factor (m³/kg)	DAF=20 (mg/kg)	Noncarcinogenic (mg/kg) (a)	Carcinogenic (mg/kg) (b)	IW Type 4 RRS (mg/kg) (c)	DAF=20 (mg/kg) (d)
		(25)		(***3***3) (**)	(22) (-)	(25, (,
Volatile Organic Compounds (VOCs)						
1,1,2-Trichloroethane	8.8E+03	3.2E-02	8.2E+03	2.2E+01	2.2E+01	3.2E-02
1,1-Dichloroethane	2.1E+03	2.3E+01	4.1E+05	5.4E+01	5.4E+01	2.3E+01
1,1-Dichloroethene	8.7E+02	3.8E+00	2.5E+02	ND	2.5E+02	3.8E+00
Chlorobenzene	8.6E+03	1.8E+00	6.1E+02	· ND	6.1E+02	1.8E+00
cis-1,2-Dichloroethene	2.7E+03	1.2E+00	4.1E+03	ND	4.1E+03	1.2E+00
Ethylbenzene	7.6E+03	1.6E+01	1.1E+04	1.2E+02	1.2E+02	1.6E+01
Isopropylbenzene	8.4E+03	3.3E+01	4.6E+03	ND	4.6E+03	3.3E+01
Tetrachloroethene	2.7E+03	4.5E-02	9.9E+02	1.5E+01	1.5E+01	4.5E-02
Toluene	5.6E+03	7.2E+01	3.2E+04	ND	3.2E+04	7.2E+01
Trichloroethene	2.5E+03	3.7E-02	7.1E+00	2.5E+01	7.1E+00	3.7E-02
Vinyl chloride (lifetime)	5.8E+02	2.2E-02	8.5E+01	5.1E+00	5.1E+00	2,2E-02
Xylenes, mixture	7.9E+03	2.0E+02	1.2E+03	ND	1.2E+03	2.0E+02
Aylones, matere	7.52.00	2.02102	1.22.100	ND	1.22.00	2.01.02
SVOCS					•	
1,2,4-Trichlorobenzene	4.1E+04	4.1E+00	1.2E+02	2.0E+03	1.2E+02	4.1E+00
1,2-Dichlorobenzene	1.6E+04	1.2E+01	4.5E+03	ND	4.5E+03	1.2E+01
1,4-Dichlorobenzene	1.4E+04	1.4E+00	1.5E+04	5.2E+01	5.2E+01	1.4E+00
Metals		4.77.04	0.05.05			. ==
Barium	NA	1.7E+04	3.6E+05	ND 4.45.00	3.6E+05	1.7E+04
Chromium, Total	. NA	3.8E+01	6.1E+03	1.1E+02	1.1E+02	3.8E+01
Lead	NA	2.7E+02	1.3E+03	ND	1.3E+03	2.7E+02
Pesticides 4,4-DDD	NA	5.6E+01	ND	2.4E+02	2.4E+02	5.6E+01
4,4-DDE	NA NA	4.0E+01	ND ND	1.7E+02	1.7E+02	4.0E+01
4,4-DDT	NA NA	5.7E+01	1.0E+03	1.7E+02	1.7E+02	5.7E+0.1
Aldrin	NA NA	5.5E-01	6.1E+01	3.4E+00	3.4E+00	5.5E-01
Alpha-BHC	NA.	5.3E-02	1.6E+04	9.1E+00	9.1E+00	5.3E-02
Chiordane	NA.	1.1E+01	1.0E+03	1.6E+02	1.6E+02	1.1E+01
Beta-BHC	. NA	1.8E-01	ND	3.2E+01	3.2E+01	1.8E-01
Deita-BHC	NA NA	1.8E-01	ND	3.2E+01	3.2E+01	1.8E-01
Dieldrin	NA	1.4E-01	1.0E+02	3.6E+00	3.6E+00	1.4E-01
Endrin	NA	2.5E+01	6.1E+02	ND	6.1E+02	2.5E+01
Endrin Ketone	NA .	8.1E-02	ND	ND	ND	8.1E-02
Gamma-BHC (Lindane)	NA	3.0E-01	6.1E+02	5.2E+01	5.2E+01	3.0E-01
Heptachlor	NA	1.1E+00	1.0E+03	1.3E+01	1.3E+01	1.1E+00
Heptachior Epoxide	NA	1.3E-01	2.7E+01	6.3E+00	6.3E+00	1.3E-01
Methoxychlor	NA	5.5E+02	1.0E+04	ND	1.0E+04	5.5E+02
Toxaphene	NA	9.3E+00	ND.	5.2E+01	5.2E+01	9.3E+00

Notes:
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RRS ND

Risk Reduction Standard Not Determined - Can not be calculated

THI x BW x ATn x 365days/year

EF x ED x [(1/RfDi x (1/VF + 1/PEF) x InhR) + (1/RfDo x irs x CF)] (a)

TR x BW x ATc x 365days/year

EF x ED x [(SFi x (1/VF + 1/PEF) x lnhR) + (SFo x lrs x CF)] , (b)

Minimum of noncarcinogenic and carcinogenic concentrations.
Minimum concentration of Leaching Value and Risk-based Value.

Exposure Parameters
Total Hazard Index (THI)
Target Risk (TR)
Body Weight (BW)
Averaging Time, Carcinogen (ATc)
Averaging Time, Noncarcinogen (ATn)
Exposure Duration (ED)
Exposure Frequency (EF)
Soil Ingestion Rate (InRs)
Air Inhalation Rate (InhR)
Particulate Emission Factor (PEF)
Conversion Factor (CF)
Volatilization Factor (VF)

<u>Unit</u>
unitless
unitless
kg
yrs
yrs
yrs
days/yr
mg/day
m3/day
m3/kg
kg/mg
m3/kg

Table B-8
Derivation of VF Factors (Soil-to-Air Volatilization Factor)
Based on Regional Screening Level Chemical-specific Parameters Supporting Table November 2011

				HLC	~.							
Analyte	CAS No.	MW	H` (unitless)	(atm- m²/mole)	Dia (cm²/s)	Diw (cm²/s)	Koc (L/kg)	Dei (cm²/sec)	K <sub>d</sub> (cm <sup>3</sup> /g)	K <sub>as</sub> (g/cm <sup>3</sup> )	Y (cm²/sec)	VF (m³/kg)
Chlorobenzene	108-90-7	112.56	0.1271464	0.00311	0.0721306	9.4765E-06	233.9	5.08E-02	4.68E+00	2.73E-02	2.80E-04	8.59E+03
Cumene												
(Isopropylbenzene)	98-82-8	120.2	0.4701554	0.0115	0.0603044	7.8566E-06	697.8	4.25E-02	1.40E+01	3.38E-02	2.90E-04	8.44E+03
Dichlorobenzene, 1,2-	95-50-1	147	0.0784955	0.00192	0.0561703	8.9213E-06	382.9	3.96E-02	7.66E+00	1.03E-02	8.25E-05	1.59E+04
Dichlorobenzene, 1,4-	106-46-7	147	0.0985282	0.00241	0.0550429	8.6797E-06	375.3	3.88E-02	7.51E+00	1.32E-02	1.03E-04	1.42E+04
Dichloroethane, 1,1-	75-34-3	98.96	0.2297629	0.00562	0.0836446	0.0000106	31.82	5.89E-02	6.36E-01	3.62E-01	4.04E-03	2.12E+03
Dichloroethylene, 1,1-	75-35-4	96.94	1.0670482	0.0261	0.0863138	0.000011	31.82	6.08E-02	6.36E-01	1.68E+00	1.55E-02	8.66E+02
Diahlamathulan 43 di	156 50 2	06.04	0.4660030	0.00400	0.0004000	0.0000112	20.6					
Dichloroethylene, 1,2-cis-		96.94	0.1668029	0.00408	0.0884088	0.0000113	39.6	6.23E-02	7.92E-01	2.11E-01	2.56E-03	2.74E+03
Ethylbenzene	100-41-4	106.17	0.3221586	0.00788	0.0684652	8.4558E-06	446.1	4.82E-02	8.92E+00	3.62E-02	3.52E-04	7.64E+03
Tetrachloroethylene	127-18-4	165.83	0.7236304	0.0177	0.0504664	9.4551E-06	94.94	0.035565136	1.8988	3.82E-01	2.56E-03	2.65E+03
Toluene	108-88-3	92.14	0.2714636	0.00664	0.0778053	9.2045E-06	233.9	0.054831651	4.6780	5.82E-02	6.41E-04	5.64E+03
Trichlorobenzene, 1,2,4-	120-82-1	181.45	0.058054	0.00142	0.0395992	8.4033E-06	1356	0.027906705	27.1200	2.15E-03	1.22E-05	4.14E+04
Trichloroethane, 1,1,2-	79-00-5	133.41	0.0336877	0.000824	0.0668904	0.00001	60.7	0.047139605	1.2140	2.78E-02	2.65E-04	8.83E+03
Trichloroethylene	79-01-6	131.39	0.4026983	0.00985	0.0686618	0.0000102	60.7	0.048387962	1.2140	3.33E-01	3.06E-03	2.45E+03
Vinyl Chloride	75-01-4	62.5	1.1365495	0.0278	0.1071189	0.000012	21.73	0.075489795	0.4346	2.62E+00	2.62E-02	5.82E+02
Xylenes	1330-20-7	106.17	0.2117743	0.00518	0.0847395	9.9011E-06	382.9	0.059718383	7.6580	2.77E-02	3.35E-04	7.86E+03

Equation is from USEPA, 1991b.

VF = Volatilization Factor (m<sup>3</sup>/kg)

$$VF = (LS \times V \times DH) / (A) * (2 \times Dei \times P \times Kas \times 0.001)$$

 $(3.14 \times Y \times T)^{1/2}$ 

$$Y = \frac{\text{Dei x P}}{P + (p(1-P)/\text{Kas})}$$

LS = Length of side of contaminated area =

V = wind speed in mixing zone =

DH = diffusion height =

A = area of contamination =

T = exposure interval =

Dei = effective diffusivity  $(cm^2/s)$  =

P = air filled soil porosity (unitless) =

Kas = soil/air partition coefficient (g soil/cm3 air) =

Conversion factor =

p = True soil density or particulate density =

45 m (default)

2.25 m/s (default)

2 m

20,250,000 cm2 (default)

790000000 s = 25 yrs

Chemical Specific

0.35 (default)

Chemical Specific

0.001 kg/g

2.65 g/cm3 (default)

Table B-9
Calculation of Remediation Goal for Lead in Soil - Industrial Workers

				Values for	Values for
Exposure Variable	PRG Equation <sup>1</sup>	Description of Exposure Variable	Units	Industrial Worker Using Equation 1 GSDi = 2.04	Industrial Worker Using Equation 1 GSDi = 1.8 (a)
PbB <sub>fetal, 0.95</sub>	X	95 <sup>th</sup> percentile PbB in fetus	ug/dL	10	10
R <sub>fetal/maternal</sub>	X	Fetal/maternal PbB ratio		0.9	0.9
BKSF	X	Biokinetic Slope Factor	ug/dL per ug/day	0.4	0.4
$GSD_i$	X	Geometric standard deviation PbB	en p	2.04	1.8
PbB <sub>0</sub>	X	Baseline PbB	ug/dL	1.38	1.00
$IR_S$	X	Soil ingestion rate (including soil-derived indoor dust)	g/day	0.050	0.050
AF <sub>S, D</sub>	X	Absorption fraction (same for soil and dust)		0.12	0.12
$C_{w}$	X	Concentration of lead in ground water (average for site)	ug/L	4	4
$\mathbb{R}_{\mathrm{w}}^{2}$	X	Intake rate of water from on-site ground water	L/day	1	1
$AF_{w}$	X	Absolute gastrointestinal absorption fraction for lead in GW		0.2	0.2
EF	X	Exposure frequency (same for soil and dust and water)	days/yr	219	219
AT	X	Averaging Time	days/yr	365	365
PRG		Preliminary Remediation Goal	ppm	1,300	2,100

#### Note:

Level in groundwater set to background.

(a) Assumptions for the Adult Lead Model for EPA were updated in June 2009. Soil ingestion rate and frequency of exposure based on Frequent Questions from Risk Assessors on the ALM (www.epa.gov/superfund/health/contaminants/lead/almfaq.htm).

\*Equation based on Georgia Adult Lead Model (November, 1999).

$$\mathbf{PRG} = \frac{[([[PbB_{fetal,0.95}/(R*(GSD_i^{1.645})])-PbB_0) - (C_w*I_w*A_w)] * (IR_S*AF_S)^{-1}}{BKSF*(EF/AT)}$$

Prepared by: MKB 1/18/2012

Checked by: LMS 1/18/2012

#### Sources:

U.S. EPA (1996). Recommendations of the Technical Review Workgroup for Lead for an Interim Approach to Assessing Risks Associated with Adult Exposures to Lead in Soil. Georgia EPD HSRA: Appendix IV.

# Copy Range

Values	for Industria	l Exposure S	cenario	Values f	or Commerci	ial Exposure	Scenario
 Using Ed	quation 1	Using Ec	uation 2	Using Ed	uation 1	Using Ed	quation 2
GSDi = 1.8   GSDi = 2.2		GSDi = 1.8	GSDi = 2.2	GSDi = 1.8	GSDi = 2.2	GSDi = 1.8	GSDi = 2.2
10	10	10	10	10	10	10	10
0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
1.8	2.1	1.8	2.1	1.8	2.1	1.8	2.1
2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
0.050	0.050			0.050	0.050		
		0.050	0.050			0.050	0.050
		1.000	1.000			1.000	1.000
		0.700	0.700			0.700	0.700
0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
 219	219	219	219	50	50	50	50
1,545	888	1,545	888	6,768	3,889	6,768	3,889

#### **LEAD MODEL FOR WINDOWS Version 1.1**

Model Version: 1.1 Build11

**User Name:** 

Date: Site Name: Operable Unit:

Run Mode: Research

\*\*\*\*\* Air \*\*\*\*\*

Indoor Air Pb Concentration: 30.000 percent of outdoor.

Other Air Parameters:

Age	Time Outdoors	Ventilation Rate	Lung Absorption	Outdoor Air Pb Conc
	(hours)	(m³/day)	(%)	(µg Pb/m³)
.5-1	1.000	2.000	32.000	0.100
1-2	2.000	3.000	32.000	0.100
2-3	3.000	5.000	32.000	0.100
3-4	4.000	5.000	32.000	0.100
4-5	4.000	5.000	32.000	0.100
5-6	4.000	7.000	32.000	0.100
6-7	4.000	7.000	32.000	0.100

\*\*\*\*\*\* Diet \*\*\*\*\*\*

Age	Diet Intake(µg/day)			
.5-1	2.260			
1-2	1.960			
2-3	2.130			
3-4	2.040			
4-5	1.950			
5-6	2.050			
6-7	2.220			

\*\*\*\*\*\* Drinking Water \*\*\*\*\*

#### Water Consumption:

Age	Water (L/day)
.5-1	0.200
1-2	0.500
2-3	0.520
3-4	0.530
4-5	0.550
5-6	0.580
6-7	0.590

Drinking Water Concentration: 4.000 µg Pb/L

\*\*\*\*\* Soil & Dust \*\*\*\*\*

**Multiple Source Analysis Used** 

Average multiple source concentration: 302.600 µg/g

Mass fraction of outdoor soil to indoor dust conversion factor: 0.700 Outdoor airborne lead to indoor household dust lead concentration: 100.000

Use alternate indoor dust Pb sources? No

Age	Soil (µg Pb/g)	House Dust (µg Pb/g)
.5-1	418.000	302.600
1-2	418.000	302.600
2-3	418.000	302.600
3-4	418.000	302.600
4-5	418.000	302.600
5-6	418.000	302.600
6-7	418.000	302.600

\*\*\*\*\* Alternate Intake \*\*\*\*\*

Age	Alternate (µg Pb/day)		
.5-1	0.000		
1-2	0.000		
2-3	0.000		
3-4	0.000		
4-5	0.000		
5-6	0.000		
6-7	0.000		

\*\*\*\*\*\* Maternal Contribution: Infant Model \*\*\*\*\*\*

Maternal Blood Concentration: 1.000 µg Pb/dL

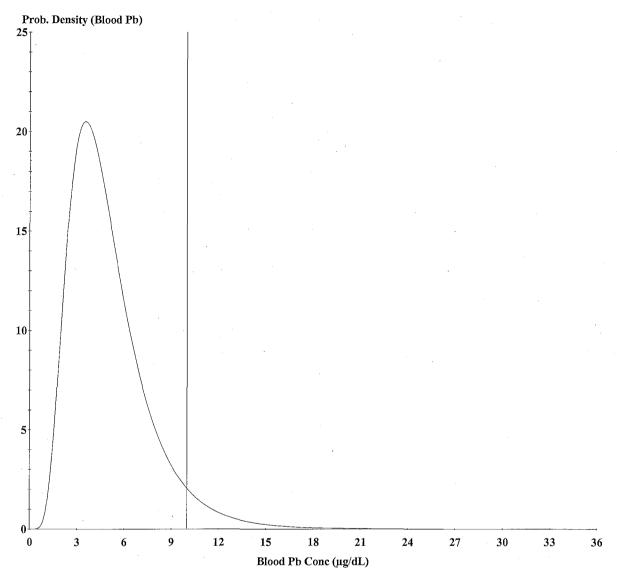
\*\*\*\*\*\*\*\*\*\*\*

# CALCULATED BLOOD LEAD AND LEAD UPTAKES:

\*\*\*\*\*\*\*\*\*\*\*\*

Year	Air (µg/day)	Diet (µg/day)	Alternate (µg/day)	Water (µg/day)
.5-1	0.021	1.013	0.000	0.359
1-2	0.034	0.863	0.000	0.880
2-3	0.062	0.953	0.000	0.931
3-4	0.067	0.927	0.000	0.963
4-5	0.067	0.913	0.000	1.030
5-6	0.093	0.971	0.000	1.099
6-7	0.093	1.058	0.000	1.124

Year	Soil+Dust (µg/day)	Total (μg/day)	Blood (µg/dL)
.5-1	8.107	9.500	5.1
1-2	12.637	14.414	5.9
2-3	12.851	14.797	5.5
3-4	13.047	15.004	5.2
4-5	9.962	11.972	4.3
5-6	9.067	11.230	3.6
6-7	8.615	10.891	3.2



Cutoff = 10.000 µg/dl Geo Mean = 4.615 GSD = 1.600 % Above = 4.995 % Below = 95.005

Age Range = 0 to 84 months

Run Mode = Research

APPENDIX D
BIOCHLOR OUTPUT SHEETS

**Table D-1 – Summary of Biochlor Input Parameters** 

	Input Value Used with Units Range of Observed or Published Values				
Parameter	Shallow Plume	Intermediate Plume	Shallow Plume	Intermediate Plume	Bibliographic Reference
Hydraulic Conductivity	1.4 x 10 <sup>-3</sup> cm/sec	1.4 x 10 <sup>-4</sup> cm/sec	1.08 x 10 <sup>-4</sup> cm/sec -2.33 x 10 <sup>-3</sup> cm/sec	1.4x 10 <sup>-4</sup> cm/sec	Slug test results obtained from MW-1, MW-2, MW-3, MW-4 and MW-12.
Hydraulic Gradient	0.0084	0.028	0.0073 - 0.0097	0.025 - 0.031	Average of gradients calculated along flow paths from source area wells MW-18 and PZ-2 during semi-annual static water level measurements from last six monitoring events
Effective Porosity	0.2	0.2	0.16 0.46	0.16 - 0.46	Groundwater Hydrology and Hydraulics, McWorter and Sunada, 1977
Longitudinal Dispersivity  Transverse Dispersivity  Vertical Dispersivity	21.276 0.1 1x10 <sup>-99</sup>	18.158 0.1 1x10 <sup>-99</sup>			Modified Xu Eckstein formula using 10% of estimated plume length 0.1 x longitudinal dispersivity Biochlor recommended value
Retardation Factor	3.64	2.32			Initially calculated from R=1+K <sub>oc</sub> x f <sub>oc</sub> x p/n, then adjusted for effect related to clay content of soil based on comparison with field data
Aquifer Matrix Density	1.7 gm/cm <sup>3</sup>	1.7 gm/cm <sup>3</sup>	1.55 – 1.80	1.55 – 1.80	General Guide for Estimating Moist Bulk Density, Natural Resources Conservation Service
Foc	0.002	0.001			Field data for shallow aquifer collected during the installation of shallow well MW-16. Biochlor default value for intermediate aquifer
Koc PCE TCE DCE VC	155 166 136 19	155 166 136 19			Biochlor default values
Source Concentrations, mg/L PCE TCE DCE VC	0.019 8.2 2.9 3.3	0.13 57 20 6.8	0.011 - 0.019 2.58 - 8.2 1.03 - 2.9 0.516 - 3.3	<0.005 - 0.13 3.3 - 57.0 3.3 - 20.0 0.305 - 6.8	For both the shallow and intermediated depth plumes, the highest TCE concentrations detected to date multiplied by 1.5 were utilized as source area concentrations.
Source Decay Constant	0.02	0.02			The calculated of 0.003 was modified to match observed field conditions.
Biotransformation Rate Coefficient PCE TCE DCE VC	0.462 0.578 1.98 2.1	0.462 0.866 0.578 0.924	0.07 - 1.2 0.05 - 0.9 0.18 - 3.3 0.12 - 2.6	0.07 - 1.2 0.05 - 0.9 0.18 - 3.3 0.12 - 2.6	Based on calibration to field data using 40-year simulation time (release of TCE assumed in approximately 1970). Started with Biochlor recommended values and adjusted model to fit field data.
Plume Length	500	500			Shallow plume modeled from MW-13 to MW-9. Intermediate depth plume modeled from PZ-2 to estimated downgradient limit.
Plume Width	300	300			Modeled area widths were estimated based on location of 5 μg/L isopleth.
Simulation Time	100	100			Simulation time from estimated release beyond the point at which the plume begins to recede.
Source Thickness, ft.	10	10			From monitoring well boring logs.
Source Width, ft.	25	25			Modeled as a single-plane source based on location of 100 mg/L isopleth.
Source Concentrations, mg/L	8.2	57.0			MW-13 and PZ-2 data represent the highest concentration detected to date.
L	1	l	1	1	İ.

Table D-2A - Model Sensitivity Analysis – Shallow Zone Calculated for June 2015 at MW-3

Hydraulic Conductivity (Baseline = 1.13 x 10 <sup>-4</sup> cm/sec)					
0 " 1	Concentrations (mg/L)				
Constituent	2x Baseline	Baseline	0.5xBaseline	Observed	
PCE	0.006	0.002	<0.001	<0.001	
TCE	0.243	0.064	0.006	0.006	
DCE	0.073	0.019	0.002	0.003	
VC	0.06	0.016	0.001	0.007	
	Hydraulic Gra	dient (Baselin	e = 0.0084)		
Constituent			tions (mg/L)		
	2x Baseline	Baseline	0.5x Baseline	Observed	
PCE	0.006	0.002	<0.001	<0.001	
TCE	0.243	0.064	0.006	0.006	
DCE	0.073	0.019	0.002	0.003	
VC	0.06	0.016	0.001	0.007	
	Effective Po	prosity (Baseli			
Constituent		Concentra	tions (mg/L)	T	
	1.2x Baseline	Baseline	0.8x Baseline	Observed	
PCE	0.001	0.002	0.003	<0.001	
TCE	0.036	0.064	.0114	0.006	
DCE	0.011	0.019	0.035	0.003	
VC	0.009	0.016	0.029	0.007	
	Longitudinal Dispe				
Constituent	Concentrations (mg/L)				
	1.5x Baseline	Baseline	0.5x Baseline	Observed	
PCE	0.002	0.002	0.002	<0.001	
TCE	0.062	0.064	0.070	0.006	
DCE	0.019	0.019	0.021	0.003	
VC_	0.016	0.016	0.018	0.007	
Iransv	erse Dispersivity (Bas		ongitudinal Dispersiv	ity)	
Constituent			tions (mg/L)		
	2x Baseline	Baseline	0.5x Baseline	Observed	
PCE	0.001	0.002	0.003	<0.001	
TCE	0.045	0.064	0.088	0.006	
DCE VC	0.014 0.011	0.019	0.027	0.003	
VC		0.016 Factor (Baseli	0.022	0.007	
	Netaruation	•	tions (mg/L)		
Constituent	4 Ev Deceline			Observed	
<b>DO</b> E	1.5x Baseline	Baseline	0.80x Baseline	Observed	
PCE	0.002	0.002	0.002	<0.001	
TCE	0.073 0.022	0.064	0.059	0.006	
DCE VC	0.022	0.019 0.016	0.018 0.015	0.003 0.007	
Aquifer Matrix Density (Baseline = 1.7 gm/cm³)					
	Aquilet Matrix Del		tions (mg/L)		
Constituent	1.2x Baseline		0.90x Baseline	Observed	
DCE		Baseline			
PCE TCE	0.002 0.067	0.002 0.064	0.002 0.062	<0.001 0.006	
		0.064	0.002	0.008	
DCE	0.020	()()14	()(114	()()()	

Table D-2A - Model Sensitivity Analysis - Shallow Zone Calculated for June 2015 at MW-3 (cont.)

Foc (Baseline = 0.002)							
Constituent	Concentrations (mg/L)						
Constituent	10x Baseline	Baseline	0.5x Baseline	Observed			
PCE	0.002	0.002	0.001	<0.001			
TCE	0.059	0.064	0.045	0.006			
DCE	0.018	0.019	0.014	0.003			
VC	0.015	0.016	0.011	0.007			
	Koc (Baseline = 155	-PCE, 166-TCE	E, 36-DCE, 19-VC)				
Constituent	Concentrations (mg/L)						
Constituent	1.5x Baseline	Baseline	0.5x Baseline	Observed			
PCE	0.002	0.002	0.002	<0.001			
TCE	0.073	0.064	0055	0.006			
DCE	0.022	0.019	0.017	0.003			
VC	0.018	0.016	0.014	0.007			
Biotransform	nation Rate Constant		462-PCE, 0.866-TCE, 1	.98-DCE,			
		1.733-VC)					
Constituent	Concentrations (mg/L)						
Conditionit	1.5x Baseline	Baseline	0.5x Baseline	Observed			
PCE	0.001	0.002	0.007	<0.001			
TCE	0.016	0.064	0.312	0.006			
DCE	0.005	0.019	0.094	0.003			
VC	0.004	0.016	0.078	0.007			
	First Order Decay Constant (Baseline = 0.02)						
Constituent	Concentrations (mg/L)						
Constituent	1.5x Baseline	Baseline	0.5x Baseline	Observed			
PCE	0.001	0.002	0.002	<0.001			
TCE	0.049	0.064	0.083	0.006			
DCE	0.015	0.019	0.025	0.003			
VC	0.012	0.016	0.021	0.007			
	Source Wi	dth (Baseline	= 25 Ft)				
Constituent	Concentrations (mg/L)						
Constituent	1.5x Baseline	Baseline	0.5x Baseline	Observed			
PCE	0.003	0.002	0.001	<0.001			
TCE	0.093	0.064	0.032	0.006			
DCE	0.028	0.019	0.010	0.003			
VC	0.023	0.016	0.008	0.007			

Table D-2B - Model Sensitivity Analysis – Intermediate Zone Calculated for June 2015 at MW-2

	Hydraulic Conductivi	ty (Baseline =	1.13 x 10 <sup>-4</sup> cm/sec)					
		-	tions (mg/L)					
Constituent	2x Baseline	Baseline	0.5xBaseline	Observed				
PCE	0.004	0.001	<0.001	<0.001				
TCE	0.2645	0.018	<0.001	0.002				
DCE	1.45	0.231	0.001	0.145				
VC	0.92	0.187	0.001	0.120				
	Hydraulic Gra	adient (Baselir	ne = 0.028)					
Constituent		Concentra	tions (mg/L)					
	2x Baseline	Baseline	0.5x Baseline	Observed				
PCE	0.004	0.001	<0.001	<0.001				
TCE	0.2645	0.018	<0.001	0.002				
DCE	1.45	0.231	0.001	0.145				
VC	0.92	0.187	0.001	0.120				
	Effective Po	prosity (Baseli	ne = 0.2)					
Constituent		Concentra	tions (mg/L)					
	1.2x Baseline	Baseline	0.8x Baseline	Observed				
PCE	<0.001	0.001	0.001	<0.001				
TCE	0.007	0.018	0.050	0.002				
DCE	0.113	0.231	0.491	0.145				
VC	0.096	0.187	0.371	0.120				
	Longitudinal Dispe	rsivity (Baseli	ne = 18.158 feet)					
Constituent	Concentrations (mg/L)							
	1.5x Baseline	Baseline	0.5x Baseline	Observed				
PCE	0.001	0.001	0.001	<0.001				
TCE	0.028	0.018	0.009	0.002				
DCE	0.272	0.231	0.186	0.145				
VC	0.206	0.187	0.164	0.120				
Transv	erse Dispersivity (Bas		ongitudinal Dispersiv	ity)				
Constituent		Concentra	tions (mg/L)					
	2x Baseline	Baseline	0.5x Baseline	Observed				
PCE	0.001	0.001	<0.001	<0.001				
TCE	0.013	0.018	0.009	0.002				
DCE	0.166	0.231	0.186	0.145				
VC	0.134	0.187	0.164	0.120				
	Retardation	Factor (Baseli	<u> </u>					
Constituent			tions (mg/L)	ı				
	1.5x Baseline	Baseline	0.80x Baseline	Observed				
PCE	0.001	0.001	0.001	<0.001				
TCE	0.021	0.018	0.017	0.002				
DCE	0.273	0.231	0.216	0.145				
VC	0.221	0.187	0.174	0.120				
	Aquifer Matrix Dei							
Constituent	40.5 "		tions (mg/L)					
	1.2x Baseline	Baseline	0.90x Baseline	Observed				
PCE	0.001	0.001	0.001	<0.001				
TCE	0.018	0.018	0.017	0.002				
DCE	0.240	0.231	0.227	0.145				
VC	0.194	0.187	0.183	0.120				

Table D-2B - Model Sensitivity Analysis – Intermediate Zone Calculated for June 2015 at MW-2 (cont.)

	Foc (E	Baseline = 0.00	02)							
Comptituent		Concentrat	tions (mg/L)							
Constituent	10x Baseline	Baseline	0.5x Baseline	Observed						
PCE	0.001	0.001	0.001	<0.001						
TCE	0.021	0.018	0.016	0.002						
DCE	0.223	0.231	0.211	0.145						
VC	0.221	0.187	0.170	0.120						
	Koc (Baseline = 155-PCE, 166-TCE, 36-DCE, 19-VC)									
Constituent		Concentrat	tions (mg/L)							
Constituent	1.5x Baseline	Baseline	0.5x Baseline	Observed						
PCE	0.001	0.001	0.001	< 0.001						
TCE	0.019	0.018	0.016	0.002						
DCE	0.253	0.231	0.211	0.145						
VC	0.201	0.187	0.170	0.120						
Biotransformation	on Rate Constant (Bas		PCE, 0.866-TCE, 0.578	-DCE, 0.924-						
		VC)								
Constituent	Concentrations (mg/L)									
Constituent	1.5x Baseline	Baseline	0.5x Baseline	Observed						
PCE	<0.001	0.001	0.005	<0.001						
TCE	0.002	0.018	0.318	0.002						
DCE	0.039	0.231	1.781 1.137	0.145						
VC	0.035	0.187	0.120							
	First Order Decay	Constant (Bas	seline = 0.02)							
Constituent		Concentrat	tions (mg/L)							
Constituent	1.5x Baseline	Baseline	0.5x Baseline	Observed						
PCE	0.001	0.001	0.001	<0.001						
TCE	0.013	0.018	0.024	0.002						
DCE	0.174	0.231	0.308	0.145						
VC	0.141	0.187	0.247	0.120						
	Source Wi	dth (Baseline	= 25 Ft)							
Constituent		Concentrat	tions (mg/L)							
Constituent	1.5x Baseline	Baseline	0.5x Baseline	Observed						
PCE	0.001	0.001	<0.001	<0.001						
TCE	0.026	0.018	0.009	0.002						
DCE	0.334	0.231	0.118	0.145						
VC	0.270	0.187	0.095	0.120						

The following is taken from the USEPA protocol (USEPA, 1998), The results of this scoring process have no regulatory significance.

Interpretation	Score
Inadequate evidence for anaerobic biodegradation* of chlorinated organics	0 to 5
Limited evidence for anaerobic biodegradation* of chlorinated organics	6 to 14
Adequate evidence for anaerobic biodegradation* of chlorinated organics	15 to 20
Strong evidence for anaerobic biodegradation* of chlorinated organics	>20

MW-Z Score:

The following is taken from the USEPA protocol (USEPA, 1998). The results of this scoring process have no regulatory		Adequate evidence for anaerobic biodegradation* of chlorinated organics	15 to 20			
significance.		Strong evidence for anaerobic biodegradation* of chlorinated organics	>20	Scroll to End of Table		
Analysis	Concentration in Most Contam. Zone	*reductive dechlorination Interpretation	Yes	No	Points Awarded	
Oxygen*	<0.5 mg/L	Tolerated, suppresses the reductive pathway at higher concentrations	. 0	•	0	
	> 5mg/L	Not tolerated; however, VC may be oxidized aerobically	0	0		
Nitrate*	<1 mg/L	At higher concentrations may compete with reductive pathway	0	0		
Iron II*	>1 mg/L	Reductive pathway possible; VC may be oxidized under Fe(III)-reducing conditions	0	0		
Sulfate*	<20 mg/L	At higher concentrations may compete with reductive pathway	0	0		
Sulfide*	>1 mg/L	Reductive pathway possible	0	0		
Methane*	>0.5 mg/L	Ultimate reductive daughter product, VC Accumulates	0	0		
Oxidation Reduction	<50 millivolts (mV)	Reductive pathway possible	0	•	0	
Potential* (ORP)	<-100mV	Reductive pathway likely	0	•	0	
pH*	5 < pH < 9	Optimal range for reductive pathway	•	0	0	
TOC	>20 mg/L	Carbon and energy source; drives dechlorination; can be natural or anthropogenic	0	0		
Temperature*	>20°C	At T >20°C blochemical process is accelerated	•	0	1	
Carbon Dioxide	>2x background	Ultimate oxidative daughter product	0	0		
Alkalinity	>2x background	Results from interaction of carbon dioxide with aquifer minerals	0	0		
Chloride*	>2x background	Daughter product of organic chlorine	0	0		
Hydrogen	>1 nM	Reductive pathway possible, VC may accumulate	0	0		
Volatile Fatty Acids	>0.1 mg/L	Intermediates resulting from biodegradation of aromatic compounds; carbon and energy source	0	0		
BTEX*	>0.1 mg/L	Carbon and energy source; drives dechlorination	1⊚	. 0	2	
PCE*		Material released	0	0		
TCE*		Daughter product of PCE <sup>a/</sup>	•	0	2	
DCE*		Daughter product of TCE.  If cis is greater than 80% of total DCE it is likely a daughter product of TCE <sup>a/</sup> ; 1,1-DCE can be a chem. reaction product of TCA	•	0	2	
VC*		Daughter product of DCE <sup>a/</sup>	•	0	2	
1,1,1- Trichloroethane*		Material released	0	0		
DCA		Daughter product of TCA under reducing conditions	0	0		
Carbon Tetrachloride		Material released		0		
Chloroethane*	· .	Daughter product of DCA or VC under reducing conditions	0	0		
Ethene/Ethane	>0.01 mg/L	Daughter product of VC/ethene	0	0		
	>0.1 mg/L	Daughter product of VC/ethene	0	0		
Chloroform		Daughter product of Carbon Tetrachloride	0	0		
Dichloromethane		Daughter product of Chloroform	0	0		

SCORE

Reset

a/ Points awarded only if it can be shown that the compound is a daughter product (i.e., not a constituent of the source NAPL).

The following is taken from the USEPA protocol (USEPA, 1998).

Interpretation	Score
Inadequate evidence for anaerobic biodegradation* of chlorinated organics	0 to 5
Limited evidence for anaerobic biodegradation* of chlorinated organics	6 to 14
Adequate evidence for anaerobic biodegradation* of chlorinated organics	15 to 20
Strong evidence for anaerobic biodegradation* of chlorinated organics	>20

The installing is taken from the OBEPA protocol (OBEPA, 1996).  The results of this scoring process have no regulatory		Adequate evidence for anaeropic biodegradation" of chlorinated organics	10 10 20	Scroll to End of Table		
significance.		Strong evidence for anaerobic biodegradation* of chlorinated organics	>20			
Analysis	Concentration in Most Contam. Zone	*reductive dechlorination Interpretation	Yes	No	Points Awarded	
Oxygen*	<0.5 mg/L	Tolerated, suppresses the reductive pathway at higher concentrations	•	0	3	
	> 5mg/L	Not tolerated; however, VC may be oxidized aerobically	0	0		
Nitrate*	<1 mg/L	At higher concentrations may compete with reductive pathway	0	0		
Iron II*	>1 mg/L	Reductive pathway possible; VC may be oxidized under Fe(III)-reducing conditions	0	0		
Sulfate*	<20 mg/L	At higher concentrations may compete with reductive pathway	0	0		
Sulfide*	>1 mg/L	Reductive pathway possible	0	0		
Methane*	>0.5 mg/L.	Ultimate reductive daughter product, VC Accumulates	0	0		
Oxidation Reduction	<50 millivolts (mV)	Reductive pathway possible	0	0		
Potential* (ORP)	<-100mV	Reductive pathway likely	0	0		
рН*	5 < pH < 9	Optimal range for reductive pathway	•	0	0	
TOC	>20 mg/L	Carbon and energy source; drives dechlorination; can be natural or anthropogenic	0	0		
Temperature*	>20°C	At T >20°C biochemical process is accelerated	•	0	1 .	
Carbon Dioxide	>2x background	Ultimate oxidative daughter product	0	0		
Alkalinity	>2x background	Results from interaction of carbon dioxide with aquifer minerals	0	0		
Chloride*	>2x background	Daughter product of organic chlorine	0	0		
Hydrogen	>1 nM	Reductive pathway possible, VC may accumulate	0	0		
Volatile Fatty Acids	>0.1 mg/L	Intermediates resulting from biodegradation of aromatic compounds; carbon and energy source	0	0		
BTEX*	>0.1 mg/L	Carbon and energy source; drives dechlorination	•	0	2	
PCE*		Material released	0	0		
TCE*	· .	Daughter product of PCE a/	•	0	2	
DCE*		Daughter product of TCE.  If cis is greater than 80% of total DCE it is likely a daughter product of TCE <sup>a/</sup> ; 1,1-DCE can be a chem, reaction product of TCA	•	0	2	
VC*		Daughter product of DCE <sup>a/</sup>	1 · ·	.0	2	
1,1,1- Trichloroethane*		Material released	0	0		
DCA		Daughter product of TCA under reducing conditions	70	0		
Carbon Tetrachloride		Material released	0	0		
Chloroethane*		Daughter product of DCA or VC under reducing conditions	0	0		
Ethene/Ethane	>0.01 mg/L	Daughter product of VC/ethene	0	0		
	>0.1 mg/L.	Daughter product of VC/ethene	0	0		
Chloroform		Daughter product of Carbon Tetrachloride	0	0		
Dichloromethane		Daughter product of Chloroform	0	0		

<sup>\*</sup> required analysis.

(i.e., not a constituent of the source NAPL).

SCORE

Reset )

a/Points awarded only if it can be shown that the compound is a daughter product

The following is taken from the USEPA protocol (USEPA, 1998). The results of this scoring process have no regulatory significance.

Interpretation	Score
Inadequate evidence for anaerobic biodegradation* of chlorinated organics	0 to 5
Limited evidence for anaerobic biodegradation* of chlorinated organics	6 to 14
Adequate evidence for anaerobic blodegradation* of chlorinated organics	15 to 20
	j.

Scroll to End of Table

significance.		Strong evidence for anaerobic biodegradation* of chlorinated organics	>20	Scroll to End of Table		
Analysis	Concentration in Most Contam. Zone	* reductive dechlorination  Interpretation	Yes	No	Points Awarded	
Oxygen*	<0.5 mg/L	Tolerated, suppresses the reductive pathway at higher concentrations	•	0	3	
	> 5mg/L	Not tolerated; however, VC may be oxidized aerobically	0	0		
Nitrate*	<1 mg/L	At higher concentrations may compete with reductive pathway	0	0		
Iron II*	>1 mg/L	Reductive pathway possible; VC may be oxidized under Fe(III)-reducing conditions	0	0		
Sulfate*	<20 mg/L	At higher concentrations may compete with reductive pathway	0	0		
Sulfide*	>1 mg/L	Reductive pathway possible	0	0.		
Methane*	>0.5 mg/L	Ultimate reductive daughter product, VC Accumulates	0	0		
Oxidation Reduction	<50 millivolts (mV)	Reductive pathway possible	•	0	1	
Potential* (ORP)	<-100mV	Reductive pathway likely	0	0		
рН*	5 < pH < 9	Optimal range for reductive pathway	<b>©</b> .	0	0	
TOC	>20 mg/L	Carbon and energy source; drives dechlorination; can be natural or anthropogenic	0	0		
Temperature*	>20°C	At T >20°C biochemical process is accelerated	•	0	1	
Carbon Dioxide	>2x background	Ultimate oxidative daughter product	0	0		
Alkalinity	>2x background	Results from Interaction of carbon dioxide with aquifer minerals	0	0		
Chloride*	>2x background	Daughter product of organic chlorine	0	. 0		
Hydrogen	>1 nM	Reductive pathway possible, VC may accumulate	0	0		
Volatile Fatty Acids	>0.1 mg/L	intermediates resulting from biodegradation of aromatic compounds; carbon and energy source	0	0		
BTEX*	>0.1 mg/L	Carbon and energy source; drives dechlorination	<b>©</b> ,	0	2	
PCE*		Material released	0	0		
TCE*		Daughter product of PCE a/	•	0	2	
DCE*		Daughter product of TCE.  If cis is greater than 80% of total DCE it is likely a daughter product of TCE <sup>a/</sup> ; 1,1-DCE can be a chem. reaction product of TCA	•	0	2	
VC*		Daughter product of DCE <sup>a/</sup>	• 💿	0	2	
1,1,1- Trichloroethane*		Material released	0	0		
DCA		Daughter product of TCA under reducing conditions	0	0		
Carbon Tetrachloride		Material released	0	0		
Chloroethane*		Daughter product of DCA or VC under reducing conditions	0	0	<u> </u>	
Ethene/Ethane	>0.01 mg/L	Daughter product of VC/ethene	0	0	1	
	>0.1 mg/L	Daughter product of VC/ethene	0	0		
Chloroform		Daughter product of Carbon Tetrachloride	0	0		
Dichloromethane	<del></del>	Daughter product of Chloroform	0	0	<del> </del>	

<sup>\*</sup> required analysis.

SCORE

Reset

a/ Points awarded only if it can be shown that the compound is a daughter product (i.e., not a constituent of the source NAPL).

The following is taken from the USEPA protocol (USEPA, 1998). The results of this scoring process have no regulatory

Interpretation	Score
Inadequate evidence for anaerobic biodegradation* of chlorinated organics	0 to 5
Limited evidence for anaerobic biodegradation* of chlorinated organics	6 to 14
Adequate evidence for anaerobic biodegradation* of chlorinated organics	15 to 20
Strong evidence for anaerobic biodegradation* of chlorinated organics	>20

Score: 12

significance.		Strong evidence for anaerobic biodegradation* of chlorinated organics	>20	Scroll to End of Table		
Analysis	Concentration in Most Contam. Zone	* reductive dechlorination  Interpretation	Yes	No	Points Awarded	
Oxygen*	<0.5 mg/L	Tolerated, suppresses the reductive pathway at higher concentrations	•	0	3	
	> 5mg/L.	Not tolerated; however, VC may be oxidized aerobically	0	0		
Nitrate*	<1 mg/L	At higher concentrations may compete with reductive pathway	0	0		
Iron II*	>1 mg/L	Reductive pathway possible; VC may be oxidized under Fe(III)-reducing conditions	0	0		
Sulfate*	<20 mg/L	At higher concentrations may compete with reductive pathway	0	0		
Sulfide*	>1 mg/L	Reductive pathway possible	0	0		
Methane*	>0.5 mg/L	Ultimate reductive daughter product, VC Accumulates	0	0		
Oxidation Reduction	<50 millivolts (mV)	Reductive pathway possible	0	•	0	
Potential* (ORP)	<-100mV	Reductive pathway likely	0	•	0	
pH*	5 < pH < 9	Optimal range for reductive pathway	•	0	0	
TOC	>20 mg/L	Carbon and energy source; drives dechlorination; can be natural or anthropogenic	0	0		
Temperature*	>20°C	At T >20°C blochemical process is accelerated	•	0	1	
Carbon Dioxide	>2x background	Ultimate oxidative daughter product	0	0		
Alkalinity	>2x background	Results from interaction of carbon dioxide with aquifer minerals	0	0		
Chloride*	>2x background	Daughter product of organic chlorine	0	0		
Hydrogen	>1 nM	Reductive pathway possible, VC may accumulate	0	0		
Volatile Fatty Acids	>0.1 mg/L	Intermediates resulting from biodegradation of aromatic compounds; carbon and energy source	0	0		
BTEX*	>0.1 mg/L	Carbon and energy source; drives dechlorination	•	Ö	2	
PCE*		Material released	0	0		
TCE*		Daughter product of PCE a/	•	0	2	
DCE*		Daughter product of TCE.  If cis is greater than 80% of total DCE it is likely a daughter product of TCE <sup>a/</sup> ; 1,1-DCE can be a chem. reaction product of TCA	•	0	2	
VC*		Daughter product of DCE <sup>e/</sup>	•	0	2	
1,1,1- Trichloroethane*	-	Material released	0	0		
DCA		Daughter product of TCA under reducing conditions	0	0		
Carbon Tetrachloride		Material released	0	0		
Chloroethane*		Daughter product of DCA or VC under reducing conditions	0	-0	1.	
Ethene/Ethane	>0.01 mg/L	Daughter product of VC/ethene	0	0		
	>0.1 mg/L	Daughter product of VC/ethene	0	0		
Chloroform		Daughter product of Carbon Tetrachloride	0	0		
Dichloromethane		Daughter product of Chloroform	0	0		

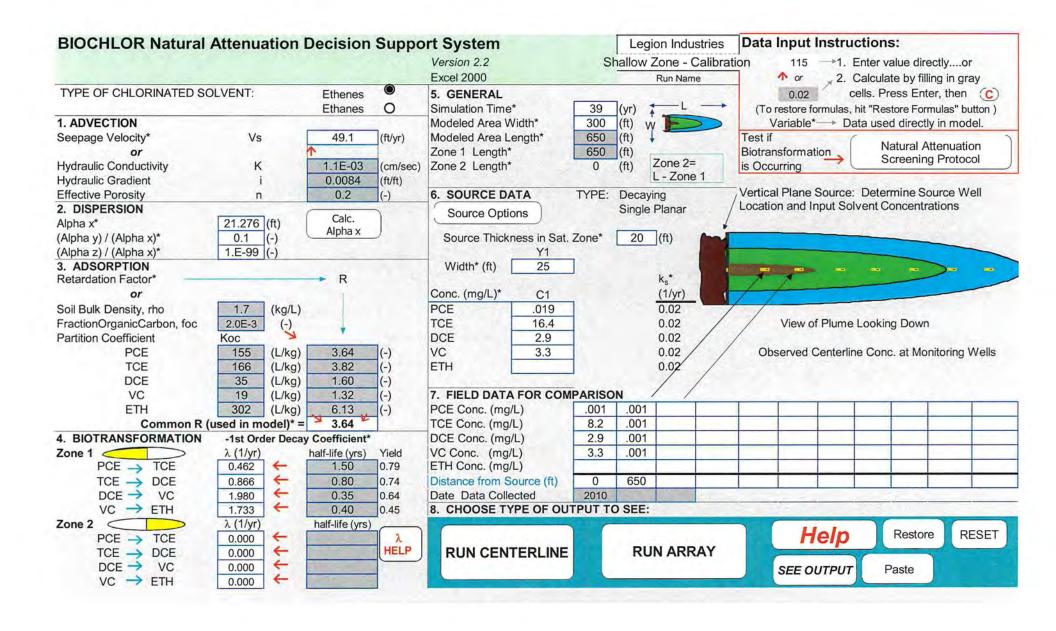
<sup>\*</sup> required analysis.

(i.e., not a constituent of the source NAPL).

SCORE

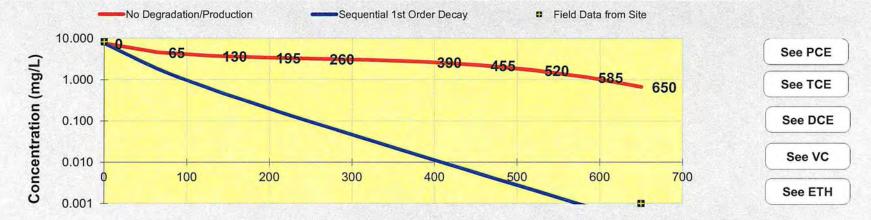
Reset

a/Points awarded only if it can be shown that the compound is a daughter product



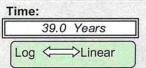
#### Distance from Source (ft)

TCE	0	65	130	195	260	325	390	455	520	585	650
No Degradation	7.518	4.546	3.703	3.361	3.156	2.949	2.651	2.222	1.690	1.141	0.672
Biotransformation	7.5179	1.802	0.583	0.212	0.081	0.032	0.013	0.005	0.002	0.001	0.000
	MW-13	MW-3			Monitorin	g Well Loc	ations (ft)				
	0	650								1,5-5,13	No. of Nation
Field Data from Site	8.200	0.001									



## Distance From Source (ft.)

Prepare Animation

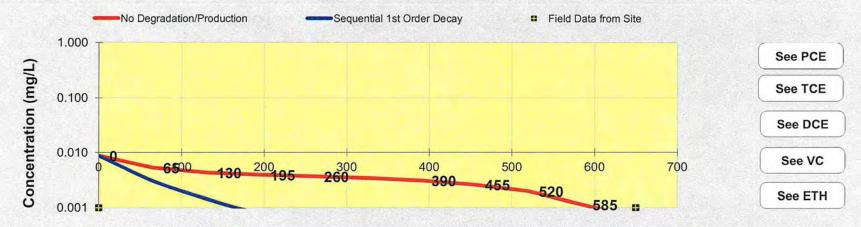


Return to Input

To All

#### Distance from Source (ft)

PCE	0	65	130	195	260	325	390	455	520	585	650
No Degradation	0.009	0.005	0.004	0.004	0.004	0.003	0.003	0.003	0.002	0.001	0.001
Biotransformation	0.0087	0.003	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	MW-13	MW-3	i Garage		Monitorin	g Well Loc	ations (ft)				
	0	650									
Field Data from Site	0.001	0.001									



# Distance From Source (ft.)

Prepare Animation

Time:

39.0 Years

Log ⇐⇒>Linear

Return to Input

To All

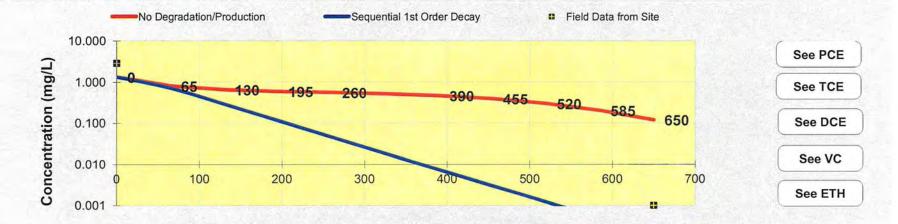
To Array

#### Distance from Source (ft) DCE 0 260 325 390 455 520 585 650 65 130 195 No Degradation 1.329 0.804 0.655 0.594 0.558 0.521 0.469 0.393 0.299 0.202 0.119 Biotransformation 1.3294 0.719 0.045 0.018 0.007 0.003 0.000 0.290 0.114 0.001 0.000 MW-13 MW-3 Monitoring Well Locations (ft) 0 650

Field Data from Site

2.900

0.001



#### Distance From Source (ft.)



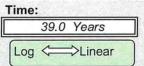
#### Distance from Source (ft)

VC	0	65	130	195	260	325	390	455	520	585	650
No Degradation	1.513	0.915	0.745	0.676	0.635	0.593	0.533	0.447	0.340	0.230	0.135
Biotransformation	1.5127	0.633	0.303	0.137	0.059	0.025	0.010	0.004	0.002	0.001	0.000
	MW-13	MW-3			Monitorin	g Well Loc	ations (ft)				
9/4/1/1/	0	650									
Field Data from Site	3.300	0.001									



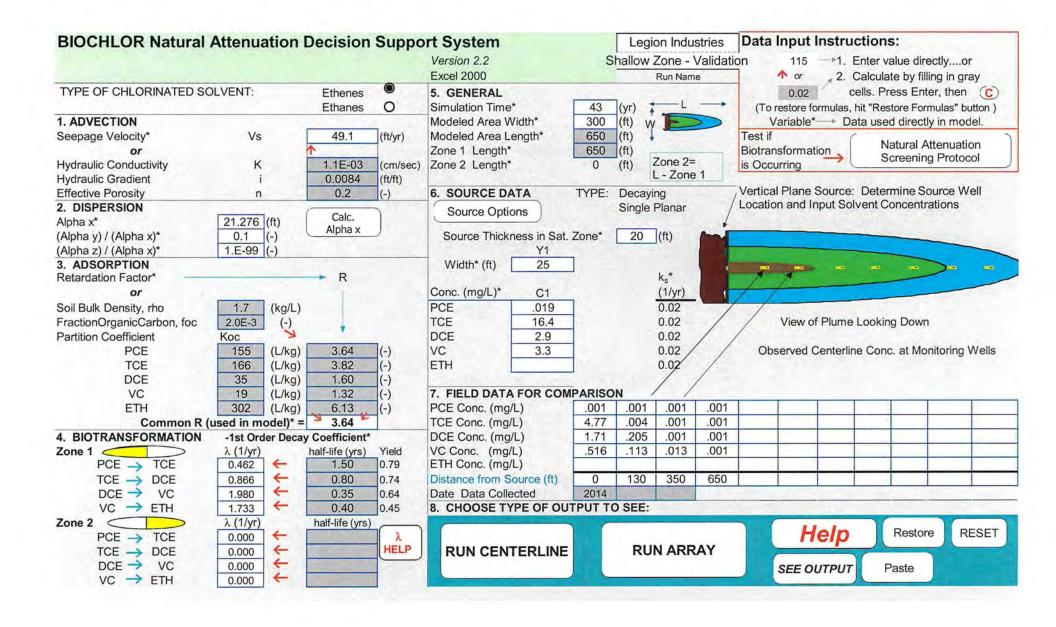
### **Distance From Source (ft.)**

**Prepare Animation** 



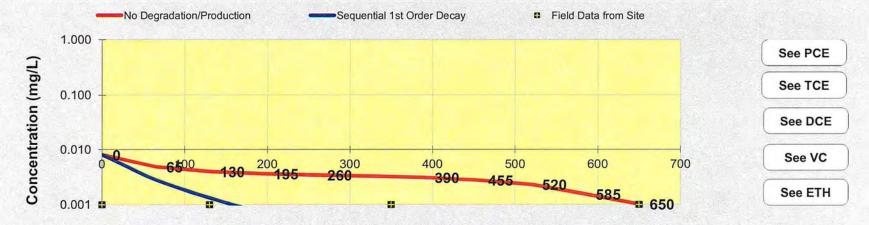
Return to Input

To All



#### Distance from Source (ft)

PCE	0	65	130	195	260	325	390	455	520	585	650
No Degradation	0.008	0.005	0.004	0.004	0.003	0.003	0.003	0.003	0.002	0.002	0.001
Biotransformation	0.0080	0.003	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	MW-13	MW-19	MW-16	MW-3	Monitorin	g Well Loc	ations (ft)				
	0	130	350	650							
Field Data from Site	0.001	0.001	0.001	0.001							



# Distance From Source (ft.)

Prepare Animation

Time:

43.0 Years

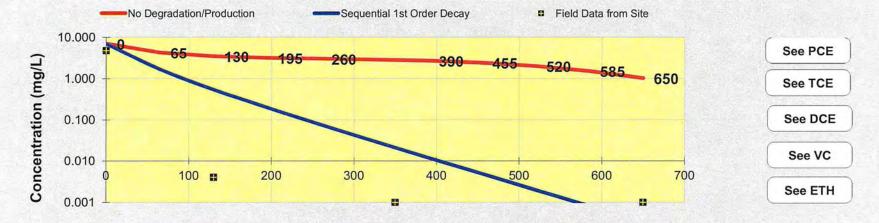
Log ← Linear

To All

To Array

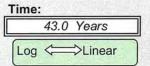
#### Distance from Source (ft)

					A CONTRACTOR OF THE PARTY OF THE PARTY	A CONTRACTOR OF THE PARTY					
TCE	0	65	130	195	260	325	390	455	520	585	650
No Degradation	6.940	4.198	3.423	3.119	2.963	2.836	2.660	2.382	1.984	1.504	1.019
Biotransformation	6.9399	1.664	0.538	0.195	0.075	0.029	0.012	0.005	0.002	0.001	0.000
	MW-13	MW-19	MW-16	MW-3	Monitoring	g Well Loc	ations (ft)				
	0	130	350	650							
Field Data from Site	4.770	0.004	0.001	0.001							



# **Distance From Source (ft.)**

**Prepare Animation** 

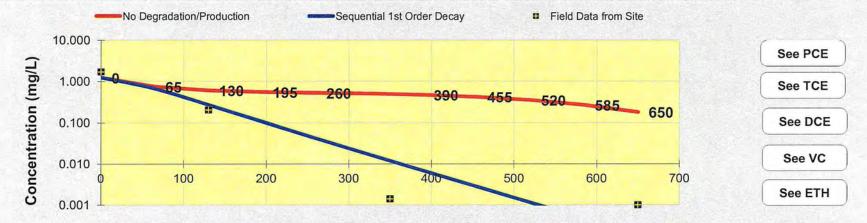


Return to Input

To All

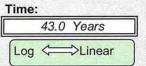
### Distance from Source (ft)

DCE	0	65	130	195	260	325	390	455	520	585	650
No Degradation	1.227	0.742	0.605	0.552	0.524	0.501	0.470	0.421	0.351	0.266	0.180
Biotransformation	1.2272	0.664	0.268	0.106	0.042	0.017	0.007	0.003	0.001	0.000	0.000
	MW-13	MW-19	MW-16	MW-3	Monitorin	g Well Loc	ations (ft)				
	0	130	350	650							
Field Data from Site	1.710	0.205	0.001	0.001							



# **Distance From Source (ft.)**

**Prepare Animation** 



Return to Input

To All

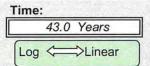
#### Distance from Source (ft)

VC	0	65	130	195	260	325	390	455	520	585	650
No Degradation	1.396	0.845	0.689	0.628	0.596	0.571	0.535	0.479	0.399	0.303	0.205
Biotransformation	1.3964	0.585	0.279	0.126	0.054	0.023	0.010	0.004	0.002	0.001	0.000
	MW-13	MW-19	MW-16	MW-3	Monitoring	g Well Loc	ations (ft)				
	0	130	350	650							
Field Data from Site	0.516	0.113	0.013	0.001							



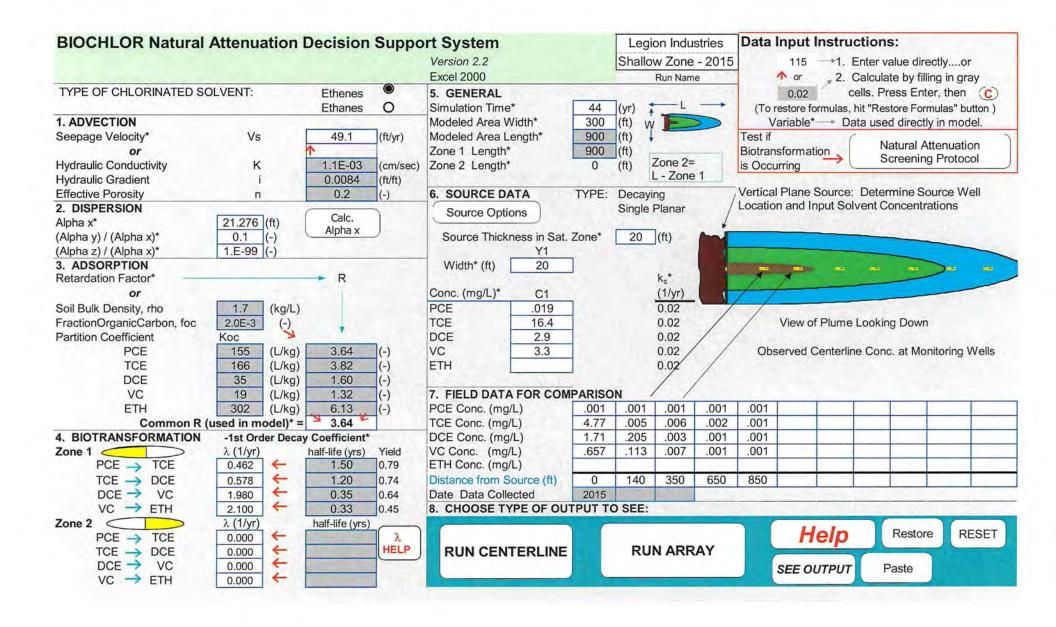
# Distance From Source (ft.)

Prepare Animation



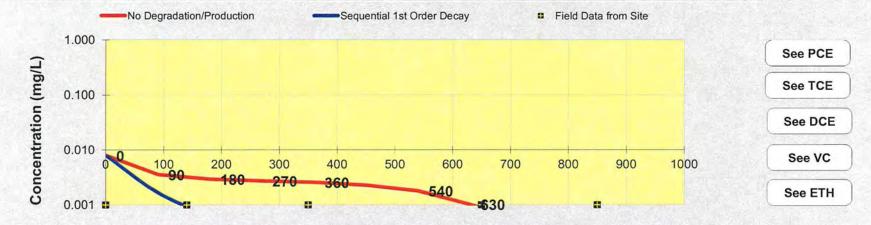
Return to Input

To All



#### Distance from Source (ft)

PCE	0	90	180	270	360	450	540	630	720	810	900
No Degradation	0.008	0.004	0.003	0.003	0.003	0.002	0.002	0.001	0.001	0.000	0.000
Biotransformation	0.0079	0.002	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	MW-3	MW-19	MW-16	MW-3	Monitorin	g Well Loc	ations (ft)				
	0	140	350	650	850						
Field Data from Site	0.001	0.001	0.001	0.001	0.001						



# Distance From Source (ft.)

Prepare Animation

Time:

44.0 Years

Log \inchibar Linear

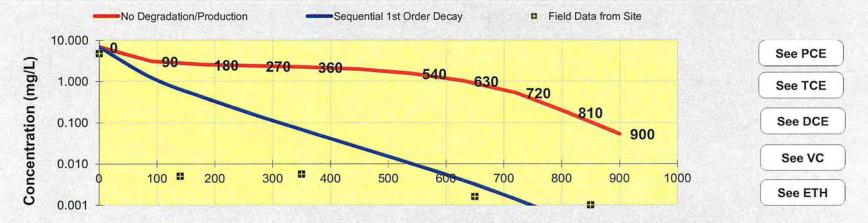
Return to Input

To All

To Array

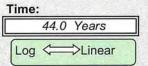
### Distance from Source (ft)

TCE	0	90	180	270	360	450	540	630	720	810	900
No Degradation	6.802	3.048	2.518	2.335	2.195	1.949	1.530	1.003	0.523	0.174	0.053
Biotransformation	6.8024	1.218	0.403	0.152	0.060	0.025	0.010	0.004	0.001	0.000	0.000
	MW-3	MW-19	MW-16	MW-3	Monitorin	g Well Loc	ations (ft)				L.
	0	140	350	650	850						
Field Data from Site	4.770	0.005	0.006	0.002	0.001		( = = = = = = = = = = = = = = = = = = =				



### **Distance From Source (ft.)**

Prepare Animation



Return to Input

To All

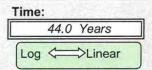
Distance from Source (ft)

DCE	0	90	180	270	360	450	540	630	720	810	900
No Degradation	1.203	0.539	0.445	0.413	0.388	0.345	0.271	0.177	0.092	0.031	0.009
Biotransformation	1.2029	0.336	0.120	0.046	0.018	0.008	0.003	0.001	0.000	0.000	0.000
	MW-3	MW-19	MW-16	MW-3	Monitorin	g Well Loc	ations (ft)				Carlotte 1
	0	140	350	650	850		40-30-5				
Field Data from Site	1.710	0.205	0.003	0.001	0.001						



### **Distance From Source (ft.)**

**Prepare Animation** 

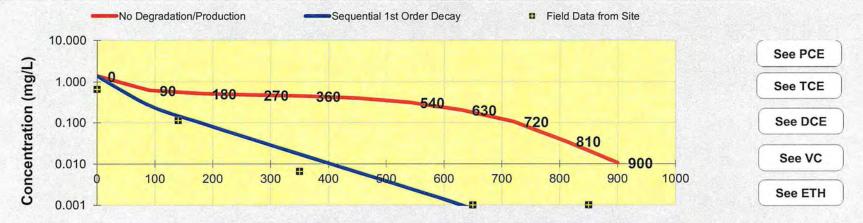


Return to Input

To All

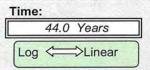
#### Distance from Source (ft)

VC	0	90	180	270	360	450	540	630	720	810	900
No Degradation	1.369	0.613	0.507	0.470	0.442	0.392	0.308	0.202	0.105	0.035	0.011
Biotransformation	1.3688	0.261	0.097	0.038	0.015	0.006	0.003	0.001	0.000	0.000	0.000
	MW-3	MW-19	MW-16	MW-3	Monitorin	g Well Loc	ations (ft)				
	0	140	350	650	850						



### Distance From Source (ft.)

**Prepare Animation** 

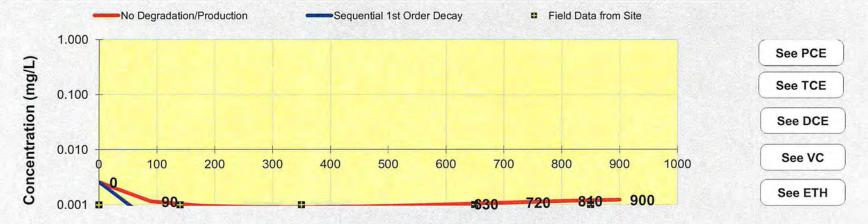


Return to Input

To All

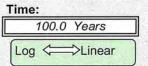
#### Distance from Source (ft)

							PORTER VIEW CONTRACTOR CONTRACTOR				
PCE	0	90	180	270	360	450	540	630	720	810	900
No Degradation	0.003	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Biotransformation	0.0026	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	MW-3	MW-19	MW-16	MW-3	Monitorin	g Well Loc	ations (ft)				
	0	140	350	650	850					ARRES	
Field Data from Site	0.001	0.001	0.001	0.001	0.001						



### **Distance From Source (ft.)**

**Prepare Animation** 



Return to Input

To All

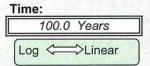
#### Distance from Source (ft)

TCE	0	90	180	270	360	450	540	630	720	810	900
No Degradation	2.219	0.995	0.825	0.778	0.776	0.799	0.837	0.889	0.949	1.006	1.056
Biotransformation	2.2195	0.397	0.132	0.050	0.020	0.008	0.003	0.001	0.001	0.000	0.000
	MW-3	MW-19	MW-16	MW-3	Monitorin	g Well Loc	ations (ft)				
	0	140	350	650	850						
Field Data from Site	4.770	0.005	0.006	0.002	0.001						



# Distance From Source (ft.)

**Prepare Animation** 

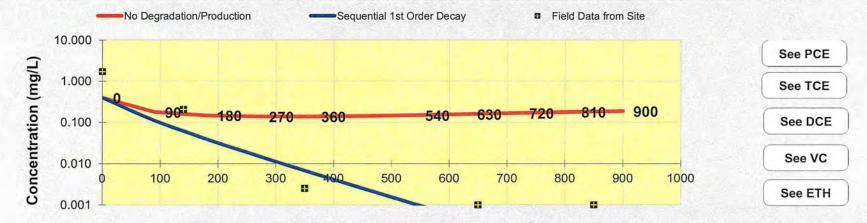


Return to Input

To All

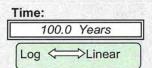
#### Distance from Source (ft)

DCE	0	90	180	270	360	450	540	630	720	810	900
No Degradation	0.392	0.176	0.146	0.138	0.137	0.141	0.148	0.157	0.168	0.178	0.187
Biotransformation	0.3925	0.110	0.039	0.015	0.006	0.002	0.001	0.000	0.000	0.000	0.000
	MW-3	MW-19	MW-16	MW-3	Monitorin	g Well Loc	ations (ft)				
	0	140	350	650	850				Video de la companya		
Field Data from Site	1.710	0.205	0.003	0.001	0.001						



### **Distance From Source (ft.)**

**Prepare Animation** 

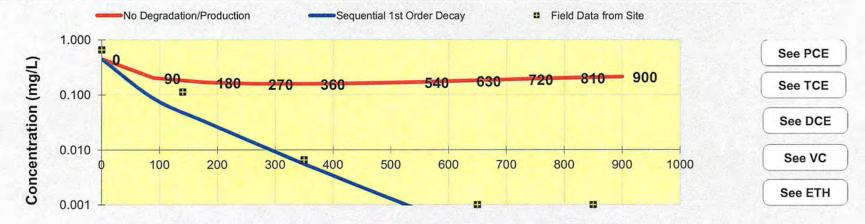


Return to Input

To All

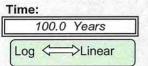
#### Distance from Source (ft)

VC	0	90	180	270	360	450	540	630	720	810	900
No Degradation	0.447	0.200	0.166	0.157	0.156	0.161	0.169	0.179	0.191	0.203	0.212
Biotransformation	0.4466	0.085	0.032	0.012	0.005	0.002	0.001	0.000	0.000	0.000	0.000
	MW-3	MW-19	MW-16	MW-3	Monitorin	g Well Loc	ations (ft)		1.5		
	0	140	350	650	850			View of			
Field Data from Site	0.657	0.113	0.007	0.001	0.001						



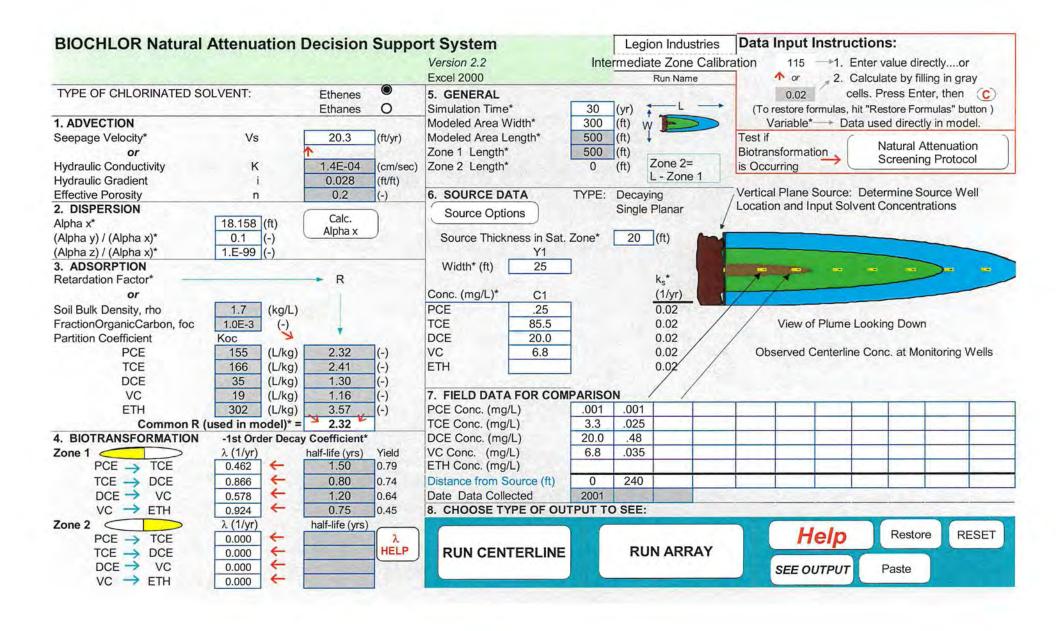
### **Distance From Source (ft.)**

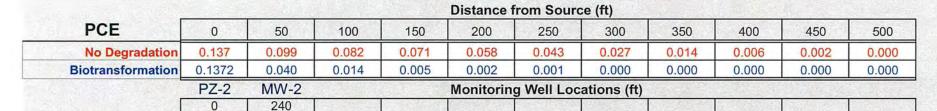
**Prepare Animation** 



Return to Input

To All

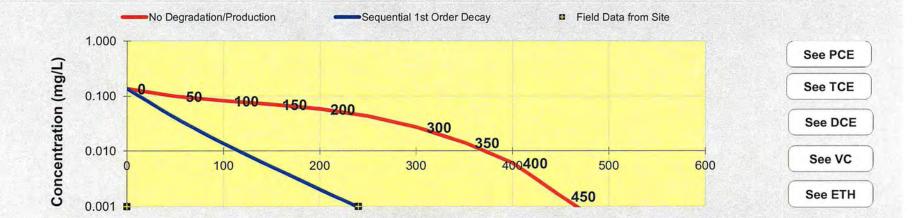




Field Data from Site

0.001

0.001



# **Distance From Source (ft.)**

Prepare Animation

Time:

30.0 Years

Log \infty Linear

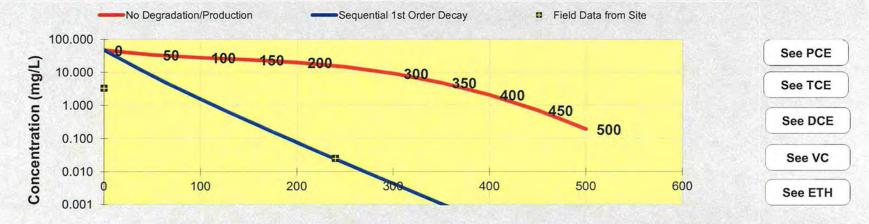
Return to Input

To All

To Array

#### Distance from Source (ft)

TCE	0	50	100	150	200	250	300	350	400	450	500
No Degradation	46.923	33.926	27.987	24.175	19.894	14.662	9.256	4.850	2.065	0.704	0.190
Biotransformation	46.9234	7.840	1.533	0.332	0.076	0.018	0.004	0.001	0.000	0.000	0.000
	PZ-2	MW-2			Monitorin	g Well Loc	ations (ft)				
	0	240									
Field Data from Site	3.300	0.025									



### Distance From Source (ft.)

**Prepare Animation** 

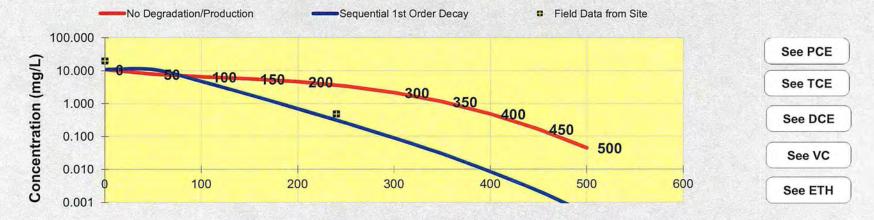


Return to Input

To All

#### Distance from Source (ft)

DCE	0	50	100	150	200	250	300	350	400	450	500
No Degradation	10.976	7.936	6.547	5.655	4.654	3.430	2.165	1.135	0.483	0.165	0.045
Biotransformation	10.9762	10.889	4.722	1.843	0.689	0.251	0.088	0.029	0.008	0.002	0.000
	PZ-2	MW-2			Monitorin	g Well Loc	ations (ft)				
	0	240		96.70.10							
Field Data from Site	20.000	0.480									



# Distance From Source (ft.)

Prepare Animation

Time:

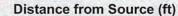
30.0 Years

Log 
Log 
Linear

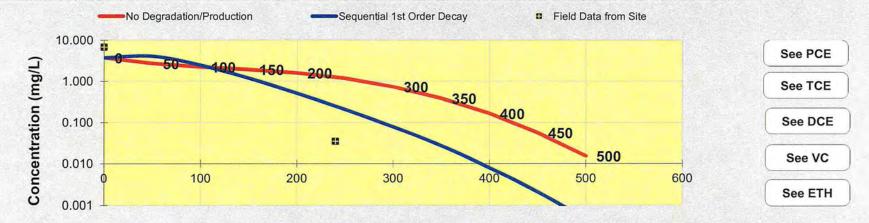
Return to Input

To All

To Array

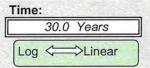


VC	0	50	100	150	200	250	300	350	400	450	500
No Degradation	3.732	2.698	2.226	1.923	1.582	1.166	0.736	0.386	0.164	0.056	0.015
Biotransformation	3.7319	4.058	2.439	1.181	0.511	0.206	0.078	0.027	0.008	0.002	0.000
	PZ-2	MW-2			Monitorin	g Well Loc	ations (ft)				
	0	240									
Field Data from Site	6.800	0.035								-	1



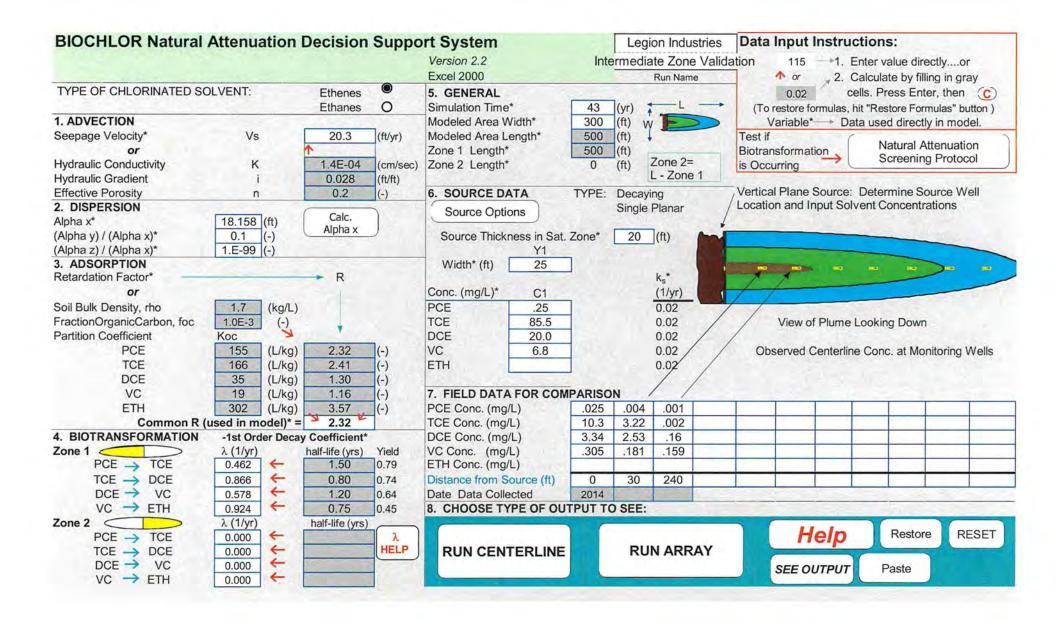
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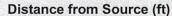
**Prepare Animation** 



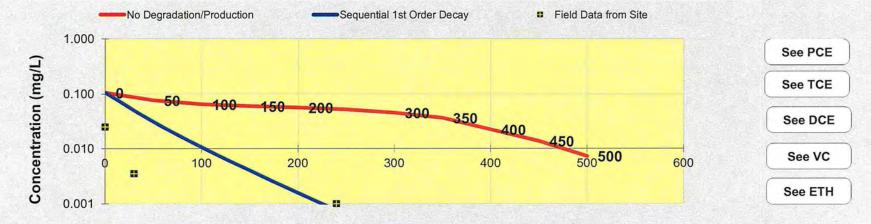
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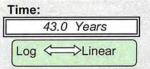


PCE	0	50	100	150	200	250	300	350	400	450	500
No Degradation	0.106	0.077	0.065	0.060	0.057	0.052	0.045	0.036	0.022	0.014	0.007
Biotransformation	0.1058	0.031	0.011	0.004	0.002	0.001	0.000	0.000	0.000	0.000	0.000
	PZ-2	MW-2			Monitorin	g Well Loc	ations (ft)				
	0	30	240								
ield Data from Site	0.025	0.004	0.001								



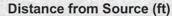
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**Prepare Animation** 



Return to Input

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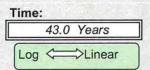


TCE	0	50	100	150	200	250	300	350	400	450	500
No Degradation	36.180	26.320	22.264	20.562	19.364	17.842	15.546	12.442	8.933	5.650	3.106
Biotransformation	36.1803	6.045	1.182	0.256	0.059	0.014	0.003	0.001	0.000	0.000	0.000
	PZ-2	MW-2			Monitorin	g Well Loc	ations (ft)				
	0	30	240	<b>松生 多人</b> 中		C. Ty					
Field Data from Site	10.300	3.220	0.002								



# Distance From Source (ft.)

Prepare Animation

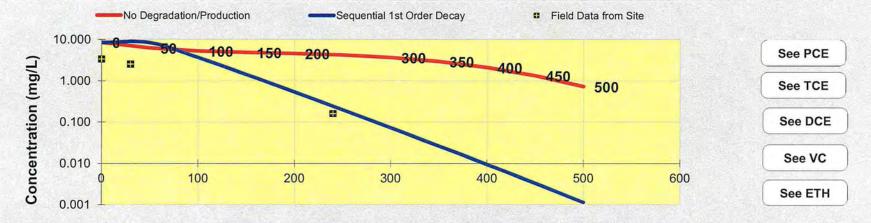


Return to Input

To All

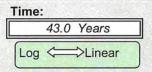
#### Distance from Source (ft)

DCE [	0	50	100	150	200	250	300	350	400	450	500
No Degradation	8.463	6.157	5.208	4.810	4.530	4.174	3.636	2.910	2.090	1.322	0.727
Biotransformation	8.4632	8.396	3.641	1.422	0.534	0.197	0.072	0.026	0.009	0.003	0.001
	PZ-2	MW-2			Monitoring	g Well Loc	ations (ft)				
	0	30	240						10- mg/s		
Field Data from Site	3.340	2.530	0.160								



# **Distance From Source (ft.)**

**Prepare Animation** 

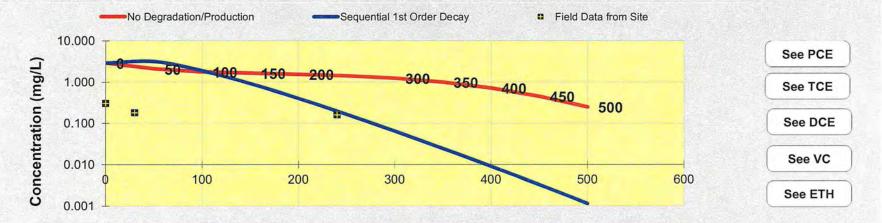


Return to Input

To All

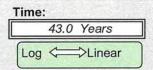
#### Distance from Source (ft)

VC	0	50	100	150	200	250	300	350	400	450	500
No Degradation	2.878	2.093	1.771	1.635	1.540	1.419	1.236	0.990	0.710	0.449	0.247
Biotransformation	2.8775	3.129	1.881	0.912	0.396	0.162	0.064	0.024	0.009	0.003	0.001
	PZ-2	MW-2			Monitoring	g Well Loc	ations (ft)				
	0	30	240								
Field Data from Site	0.305	0.181	0.159								



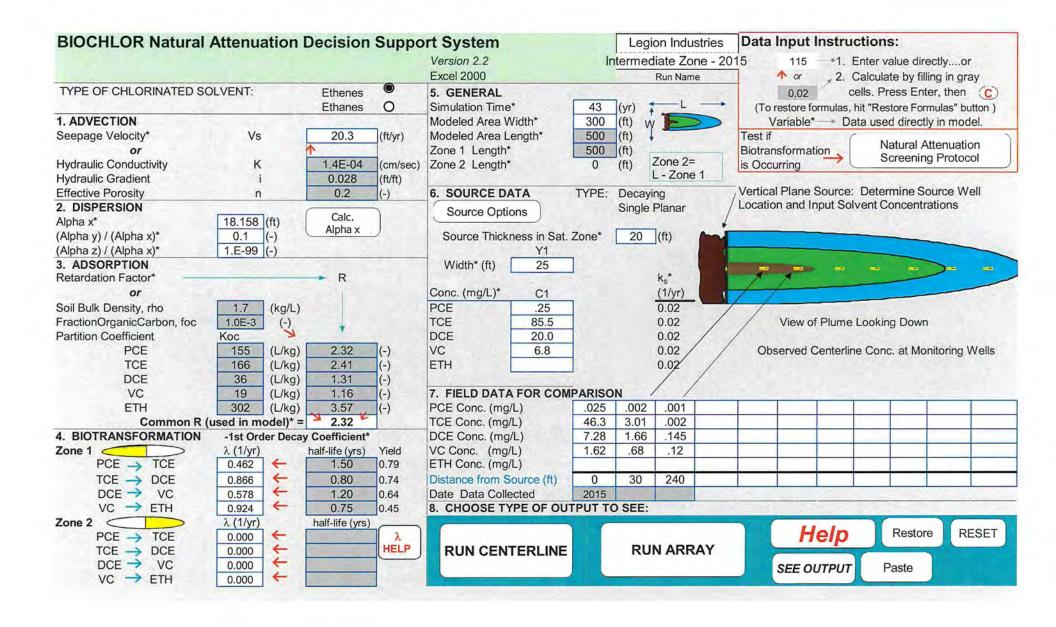
# **Distance From Source (ft.)**

**Prepare Animation** 



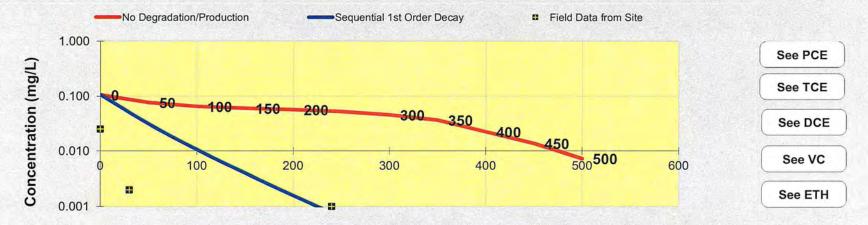
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To All



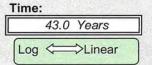
#### Distance from Source (ft)

PCE	0	50	100	150	200	250	300	350	400	450	500	
No Degradation	0.106	0.077	0.065	0.060	0.057	0.052	0.045	0.036	0.022	0.014	0.007	
Biotransformation	0.1058	0.031	0.011	0.004	0.002	0.001	0.000	0.000	0.000	0.000	0.000	
	PZ-2	MW-18	MW-2		Monitorin	g Well Loc	ations (ft)					
	0	30	240						Uppell (1)			
Field Data from Site	0.025	0.002	0.001									



# **Distance From Source (ft.)**

**Prepare Animation** 

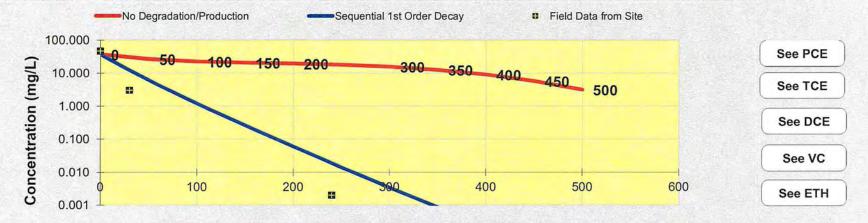


Return to Input

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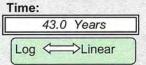
## Distance from Source (ft)

TCE	0	50	100	150	200	250	300	350	400	450	500
No Degradation	36.180	26.320	22.264	20.562	19.364	17.842	15.546	12.442	8.933	5.650	3.106
Biotransformation	36.1803	6.045	1.182	0.256	0.059	0.014	0.003	0.001	0.000	0.000	0.000
	PZ-2	MW-18	MW-2		Monitoring	g Well Loc	ations (ft)				
	0	30	240								
Field Data from Site	46.300	3.010	0.002								



# **Distance From Source (ft.)**

**Prepare Animation** 



Return to Input

To All

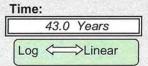
#### Distance from Source (ft)

DCE	0	50	100	150	200	250	300	350	400	450	500		
No Degradation	8.463	6.157	5.208	4.810	4.530	4.174	3.636	2.910	2.090	1.322	0.727		
Biotransformation	8.4632	8.396	3.641	1.422	0.534	0.197	0.072	0.026	0.009	0.003	0.001		
1-40-6	PZ-2	MW-18	MW-2		Monitorin	g Well Loc	ations (ft)		* 300				
	0	30	240						1 1 1 1 1 1				
Field Data from Site	7.280	1.660	0.145										



# **Distance From Source (ft.)**

**Prepare Animation** 

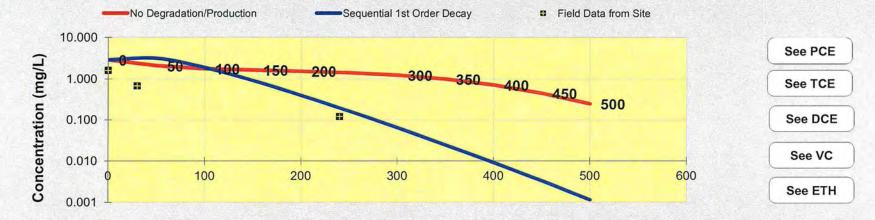


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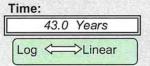
#### Distance from Source (ft)

VC	0	50	100	150	200	250	300	350	400	450	500
No Degradation	2.878	2.093	1.771	1.635	1.540	1.419	1.236	0.990	0.710	0.449	0.247
Biotransformation	2.8775	3.129	1.881	0.912	0.396	0.162	0.064	0.024	0.009	0.003	0.001
	PZ-2	MW-18	MW-2		Monitoring	g Well Loc	ations (ft)				
	0	30	240								
Field Data from Site	1.620	0.680	0.120								



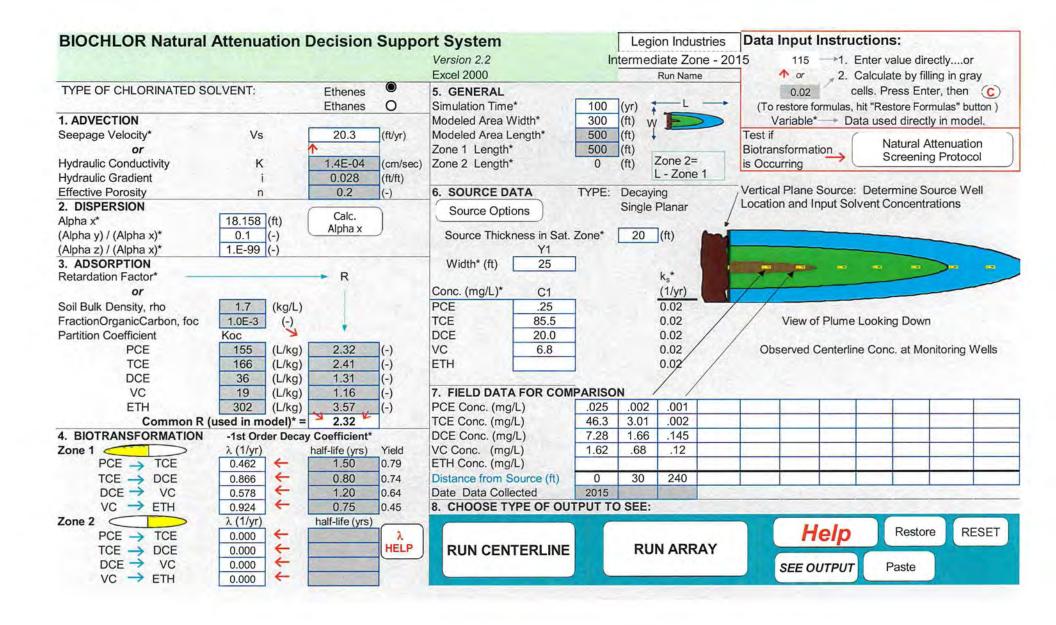
# **Distance From Source (ft.)**

**Prepare Animation** 



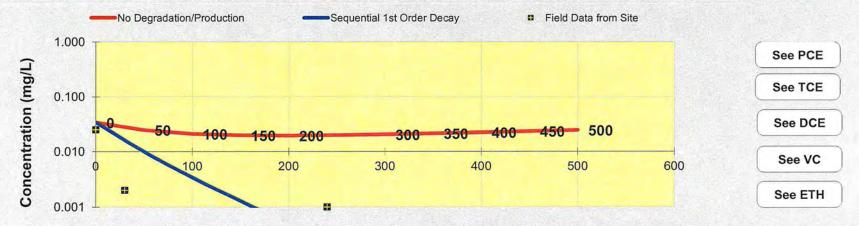
Return to Input

To All



#### Distance from Source (ft)

PCE	0	50	100	150	200	250	300	350	400	450	500
No Degradation	0.034	0.025	0.021	0.020	0.019	0.020	0.020	0.021	0.022	0.023	0.025
Biotransformation	0.0338	0.010	0.003	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000
	PZ-2	MW-18	MW-2		Monitorin	g Well Loc	ations (ft)				
	0	30	240								
Field Data from Site	0.025	0.002	0.001								



## **Distance From Source (ft.)**

Prepare Animation

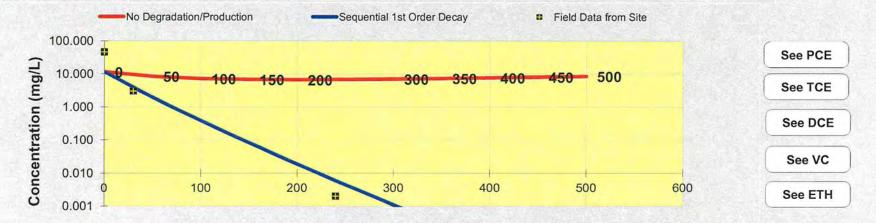
Time:

100.0 Years

Log \ightharmoldarmol

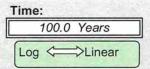
#### Distance from Source (ft)

THE RESERVE OF THE PARTY OF THE												
TCE	0	50	100	150	200	250	300	350	400	450	500	
No Degradation	11.571	8.429	7.173	6.751	6.665	6.763	6.983	7.295	7.675	8.096	8.522	
Biotransformation	11.5712	1.933	0.378	0.082	0.019	0.004	0.001	0.000	0.000	0.000	0.000	
	PZ-2	MW-18	MW-2	70.55	Monitorin	g Well Loc	ations (ft)					
	0	30	240		ALL TO						Y	
Field Data from Site	46.300	3.010	0.002									



## **Distance From Source (ft.)**

Prepare Animation

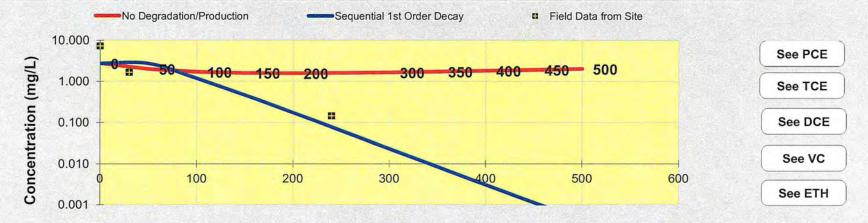


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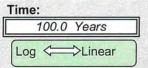
#### Distance from Source (ft)

DCE	0	50	100	150	200	250	300	350	400	450	500
No Degradation	2.707	1.972	1.678	1.579	1.559	1.582	1.634	1.707	1.795	1.894	1.993
Biotransformation	2.7067	2.685	1.165	0.455	0.171	0.063	0.023	0.008	0.003	0.001	0.000
	PZ-2	MW-18	MW-2		Monitorin	g Well Loc	ations (ft)				
	0	30	240	W. Santa					95.54		
Field Data from Site	7.280	1.660	0.145								



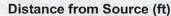
# Distance From Source (ft.)

Prepare Animation

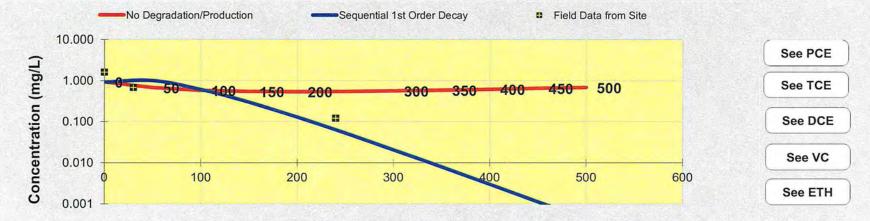


Return to Input

To All

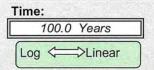


VC	0	50	100	150	200	250	300	350	400	450	500
No Degradation	0.920	0.670	0.570	0.537	0.530	0.538	0.555	0.580	0.610	0.644	0.678
Biotransformation	0.9203	1.001	0.602	0.292	0.127	0.052	0.020	0.008	0.003	0.001	0.000
	PZ-2	MW-18	MW-2		Monitorin	g Well Loc	ations (ft)				
	0	30	240	Set Like							
Field Data from Site	1.620	0.680	0.120		1						



## **Distance From Source (ft.)**

**Prepare Animation** 



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APPENDIX E
WATER USAGE SURVEY

October 7, 2015

Legion Industries, Inc. 370 Mills Road Waynesboro, Georgia 30830

Attention: Mr. Charles Brown

Subject: Report of Water Usage Survey

Legion Industries Property

370 Mills Road

Waynesboro, Georgia

Amec Foster Wheeler Project No. 6121-09-0444

Dear Mr. Brown:

Amec Foster Wheeler Environment & Infrastructure, Inc. (Amec Foster Wheeler) is pleased to submit this report of our water usage survey for the Legion Industries property located at 370 Mills Road in Waynesboro, Burke County, Georgia. The survey consisted primarily of a review of readily available local, state and federal information regarding drinking water wells and drinking water intakes for the area lying within one mile of the subject site, a driving reconnaissance, and interviews with personnel at local water departments and other knowledgeable persons.

#### **BACKGROUND**

The subject site covers a total of 10.54 acres and is developed with a single industrial building which covers approximately 75,000 square feet. The remainder of the site consists of a gravel parking area and undeveloped grassed areas.

During environmental investigations, dissolved phase impacts to groundwater were identified in deep and shallow aquifers underlying the subject property. In support of a Compliance Status Report (CSR) for the seventh period at the subject site, Amec Foster Wheeler performed a survey of drinking water wells and surface water intakes which might be present within one mile to the north and northeast of the site and within one-half mile in the remaining directions from the boundaries of the site.

#### WATER USAGE SURVEY

The findings of the water usage survey are detailed in the following sections. Amec Foster Wheeler considered the one mile distance to extend to the north and northeast from the edges of the subject property and the one-half mile distance in all remaining directions as shown on Figure



1. Potential drinking water sources that were identified within the search radius are also plotted on Figure 1.

#### **Information Sources**

Amec Foster Wheeler assessed the potential presence of drinking water sources in the site area by a review of publicly available information sources and interviews with knowledgeable people listed below:

- The Hydrogeology of the Coastal Plain Strata of Richmond and Northern Burke Counties, Georgia, Georgia Department of Natural Resources (DNR) Environmental Protection Division (EPD) Georgia Geologic Survey (GGS), Information Circular 61;
- U.S. Geological Survey Groundwater Site Inventory System (GWSI) search data;
- Telephone conversation with City of Waynesboro Water Department personnel, September 4, 2015;
- Telephone conversation with Burke County Health Department; and
- Telephone conversation with Rowell Well Drilling personnel, September 4, 2015.

Amec Foster Wheeler also attempted to physically locate wells within one mile to the north and northeast of the subject property and one-half mile in the remaining directions by performing a vehicular reconnaissance (windshield survey) of the area. We also attempted to visually identify any evidence of private wells (i.e. wellheads, pump houses) while performing the area reconnaissance.

#### **Public Information**

The public records review identified no groundwater wells or surface water intakes within the search distance.

Amec Foster Wheeler contacted the City of Waynesboro Water Department and the Burke County Health Department to obtain additional information regarding possible well locations in the site area. Personnel from both entities indicated that they do not maintain records of private water sources. According to the City of Waynesboro Water Department website, the City obtains water from a surface water intake on the Briar Creek, approximately 2.75 miles east-northeast of the subject property, from a groundwater well located on Highway 25 North approximately 1.15 miles northwest of the subject site and from a groundwater well located on 6<sup>th</sup> Street approximately 0.85 miles southwest of the subject property.

October 7, 2015

Amec Foster Wheeler also interviewed Mr. Tommy Rowell of Rowell Well Drilling, located at 860

Davis Road in Waynesboro, Georgia. According to Mr. Rowell, they have been in business for

27 years and he is not aware of any drinking water wells located within the search radius. Mr.

Rowell indicated that the nearest wells that he was familiar with were the two municipal wells, an

irrigation well used in a pecan orchard approximately 1.15 miles west of the subject property, and

a few irrigation wells located in a subdivision approximately 1.5 miles north of the subject property.

General Area Reconnaissance

On September 3, 2015, a general reconnaissance of the area within a one-mile radius north and

northeast of the subject property boundaries and one-half mile in all other directions was

performed. The reconnaissance involved visual observations from public roadways. No potential

water supply wells were identified during the area reconnaissance. Municipal water meters were

observed at residences and commercial structures in the survey area.

**CONCLUSIONS** 

Based on the data obtained during the water usage survey. Amec Foster Wheeler offers the

following conclusions:

The records review and general area reconnaissance search identified no active wells or

surface water intakes used for drinking water in within a one-mile radius north and

northeast of the subject site or within one-half mile east, south, or west of the subject site.

The properties surrounding the subject site are supplied with municipal water.

Sincerely,

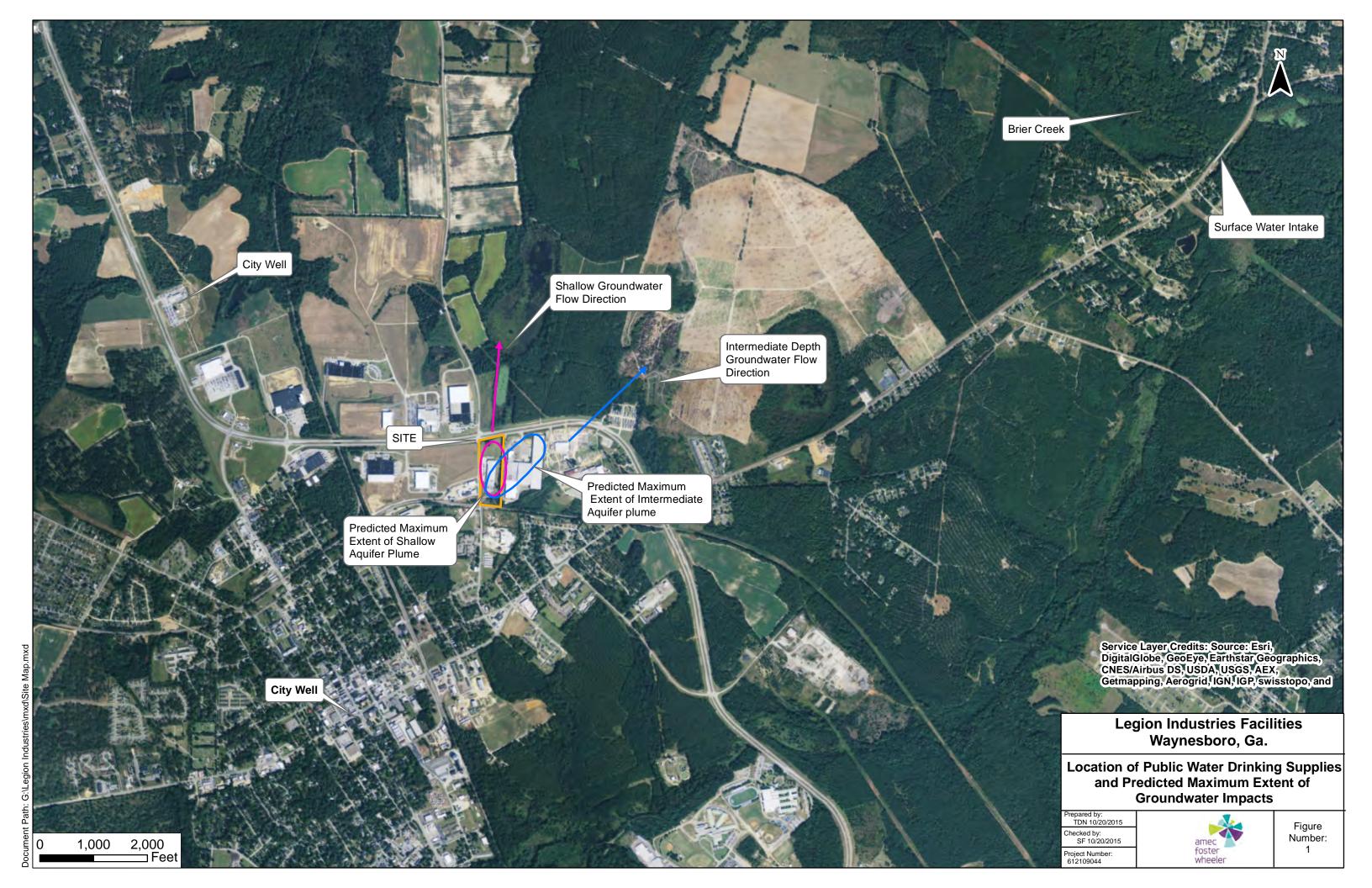
Amec Foster Wheeler Environment & Infrastructure, Inc.

John R. Jedrosko, Jr. **Project Coordinator** 

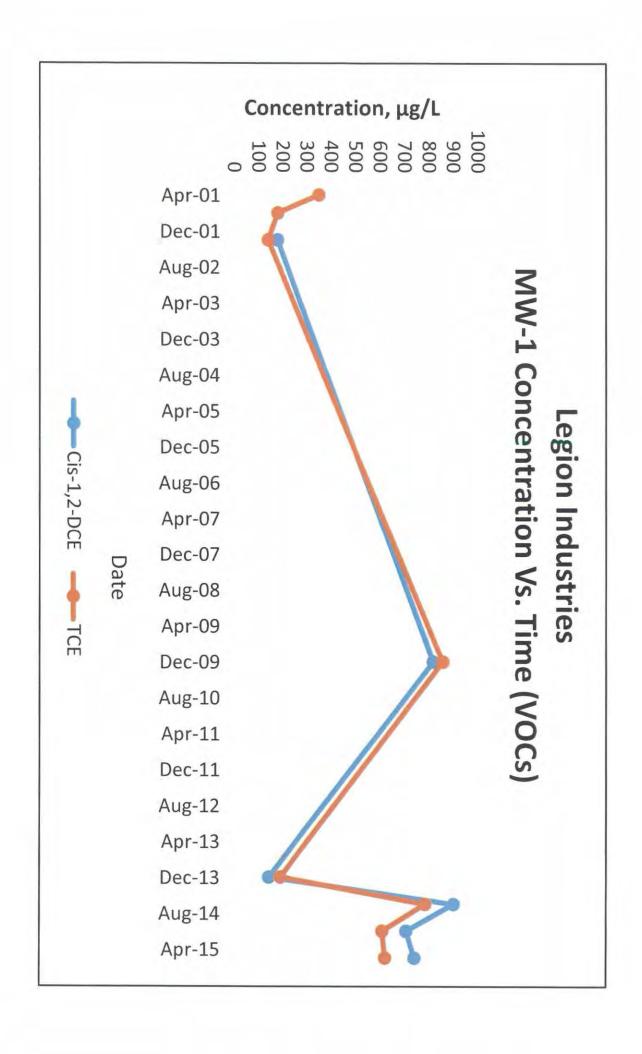
Charles T. Ferry, P.E.

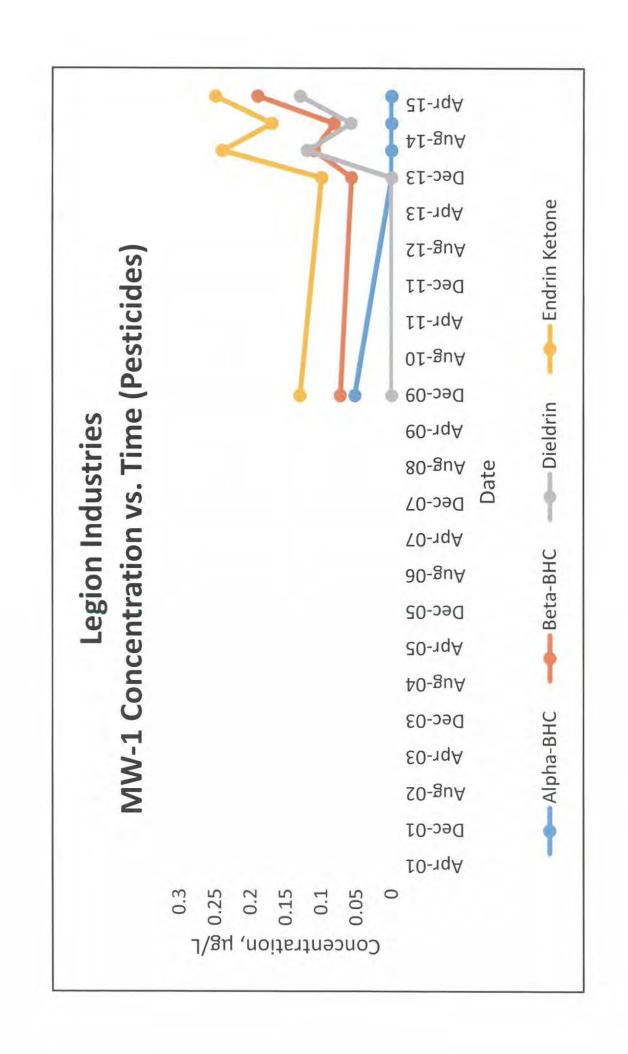
Senior Principal

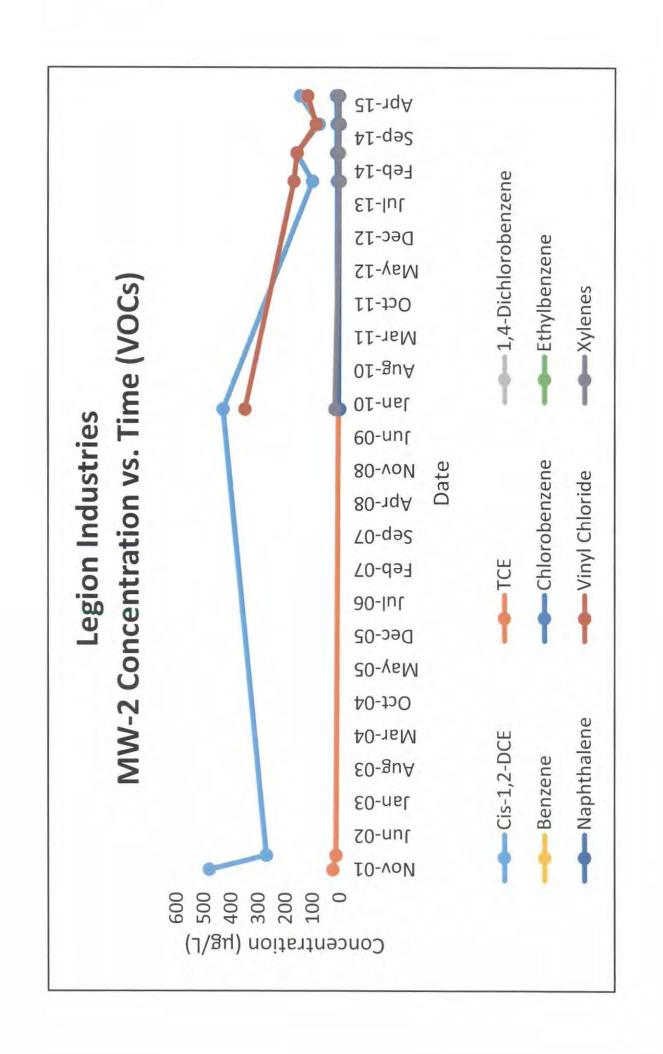
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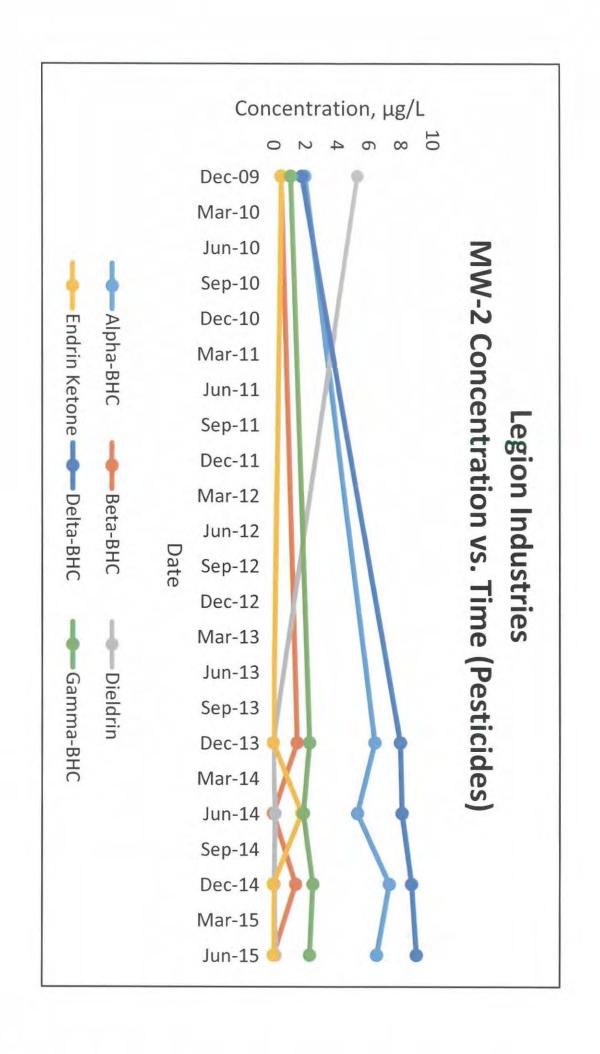


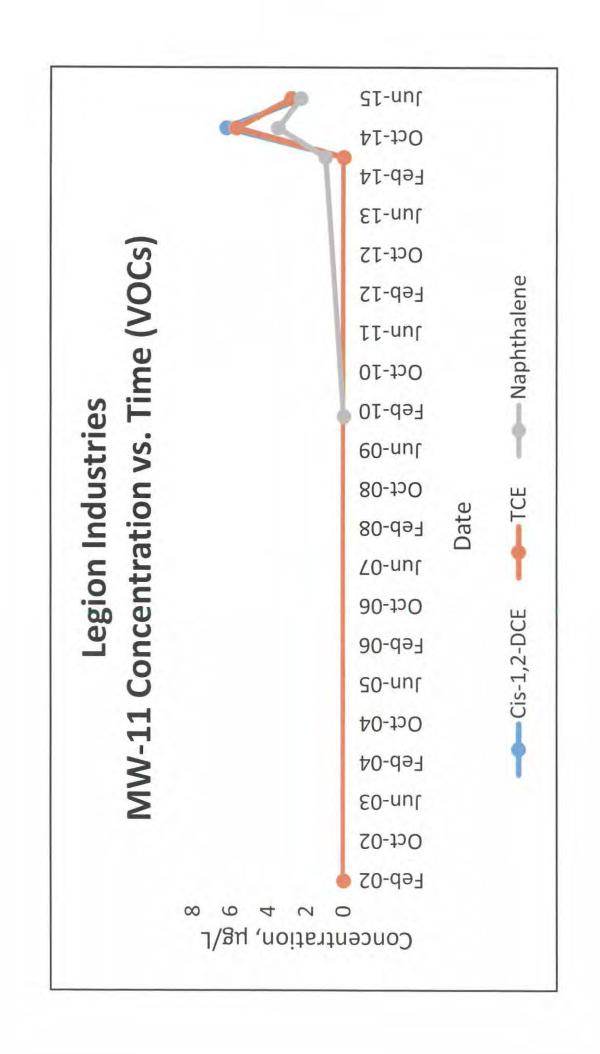
# APPENDIX F CONTAMINANT ISOPLETH MAPS AND TREND GRAPHS

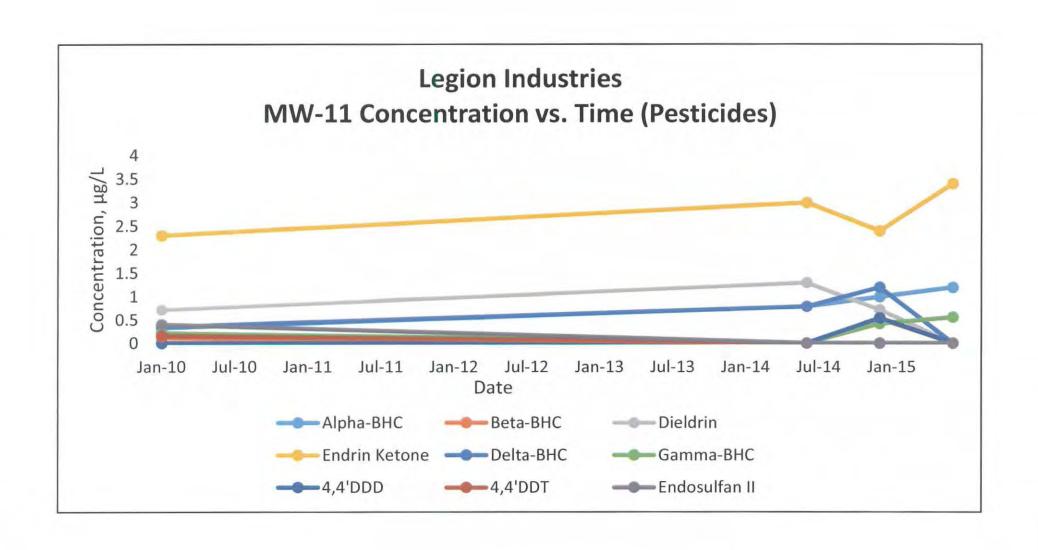


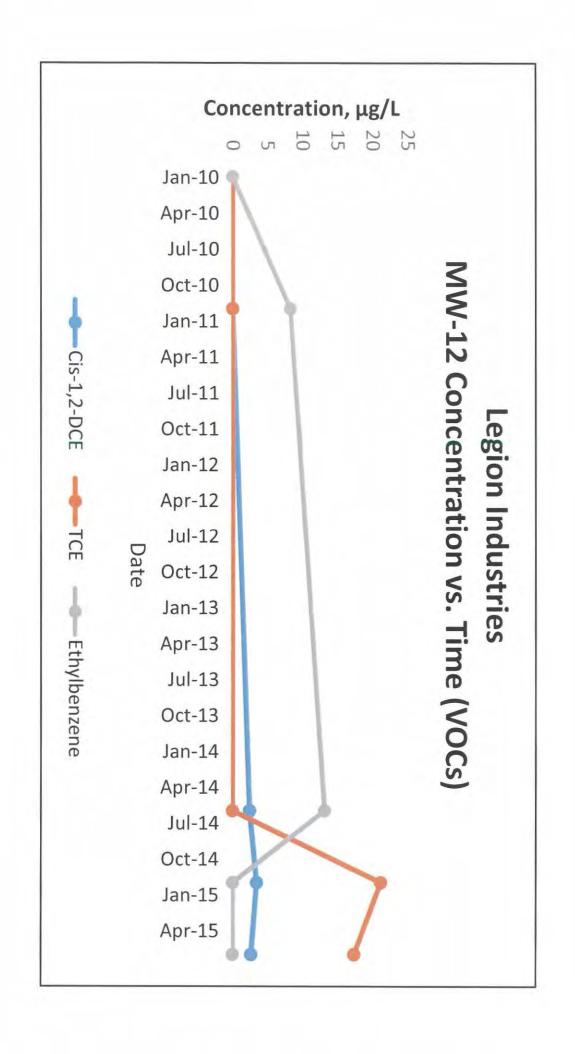


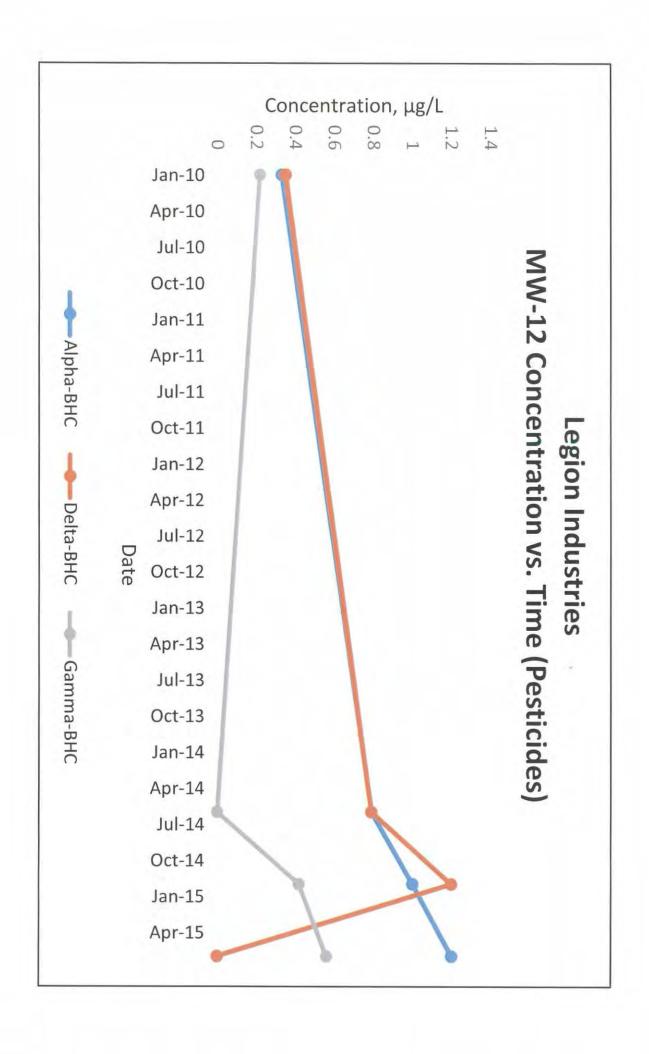


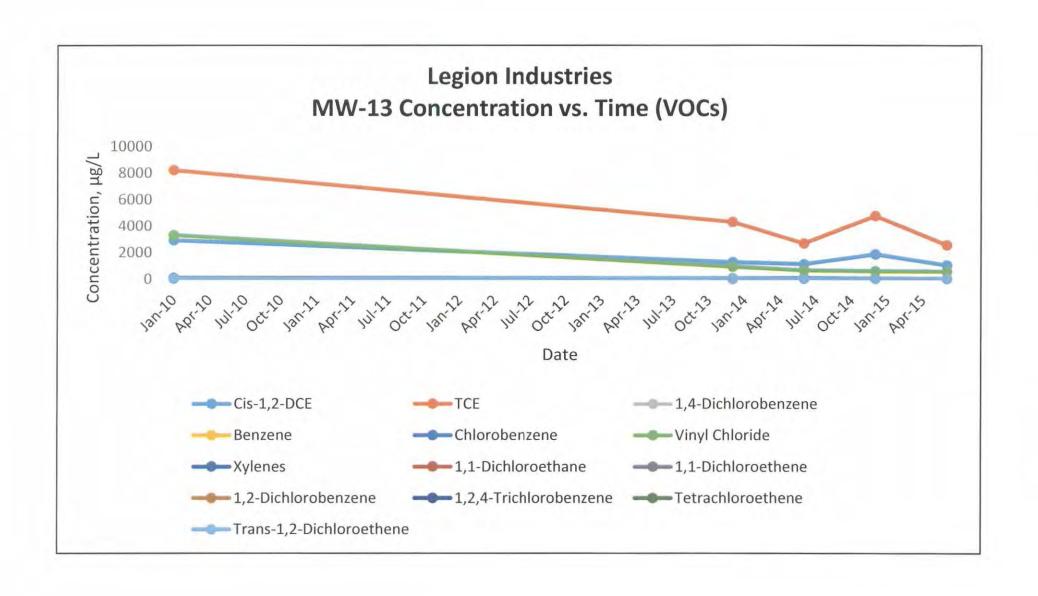


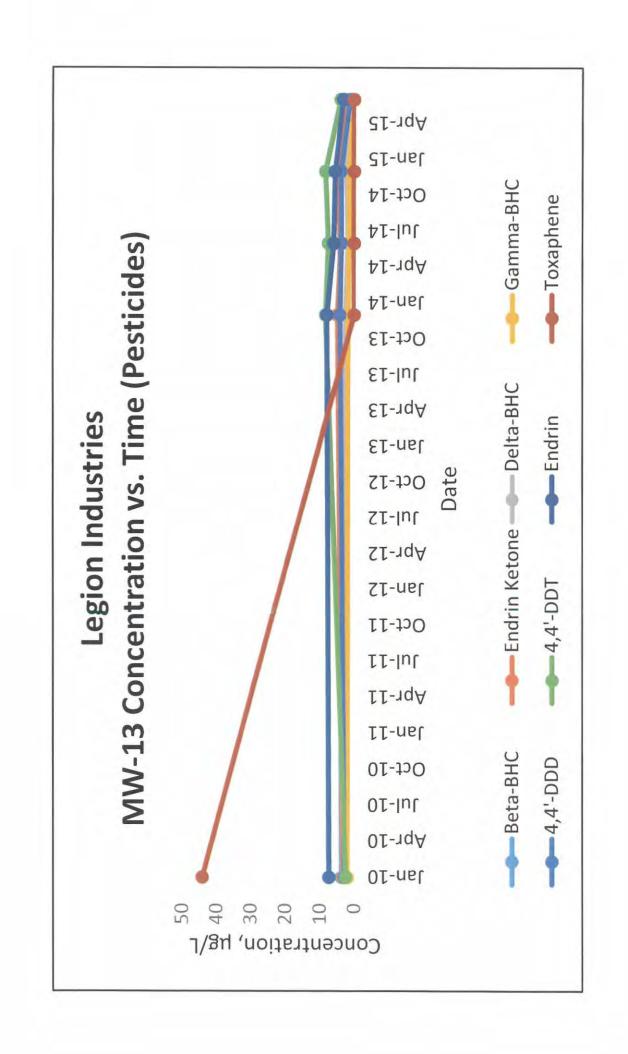


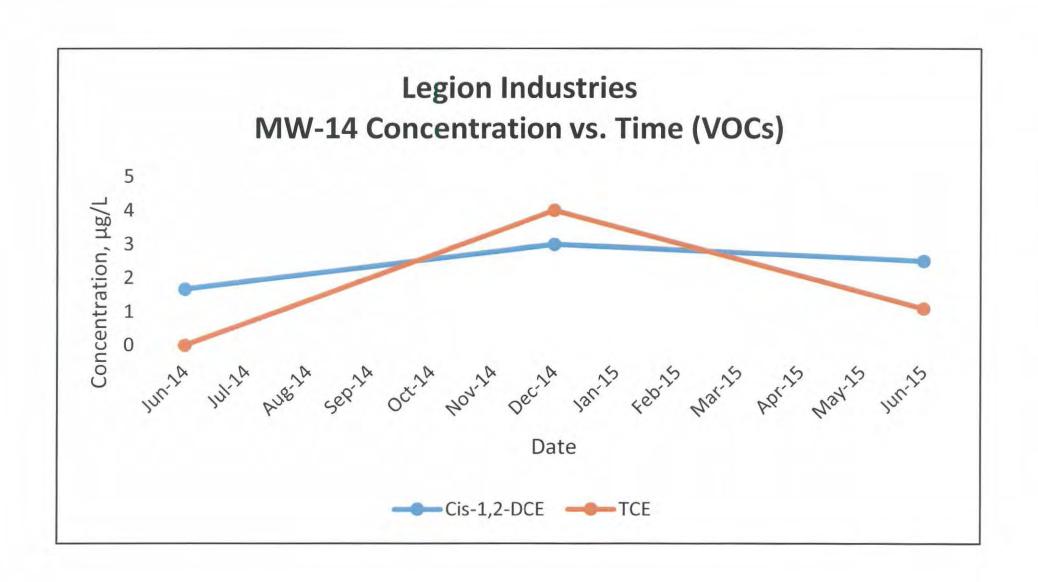


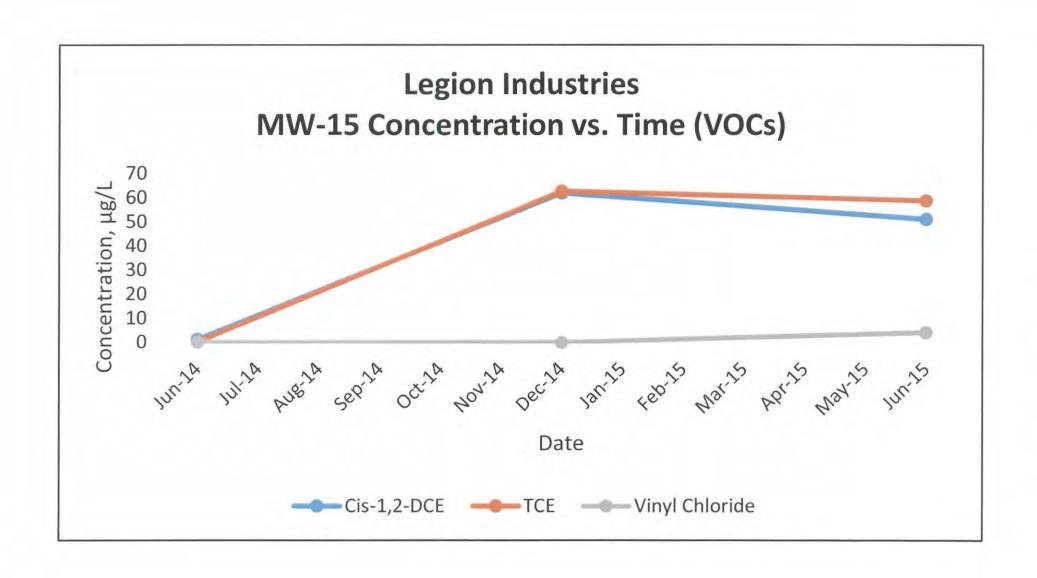


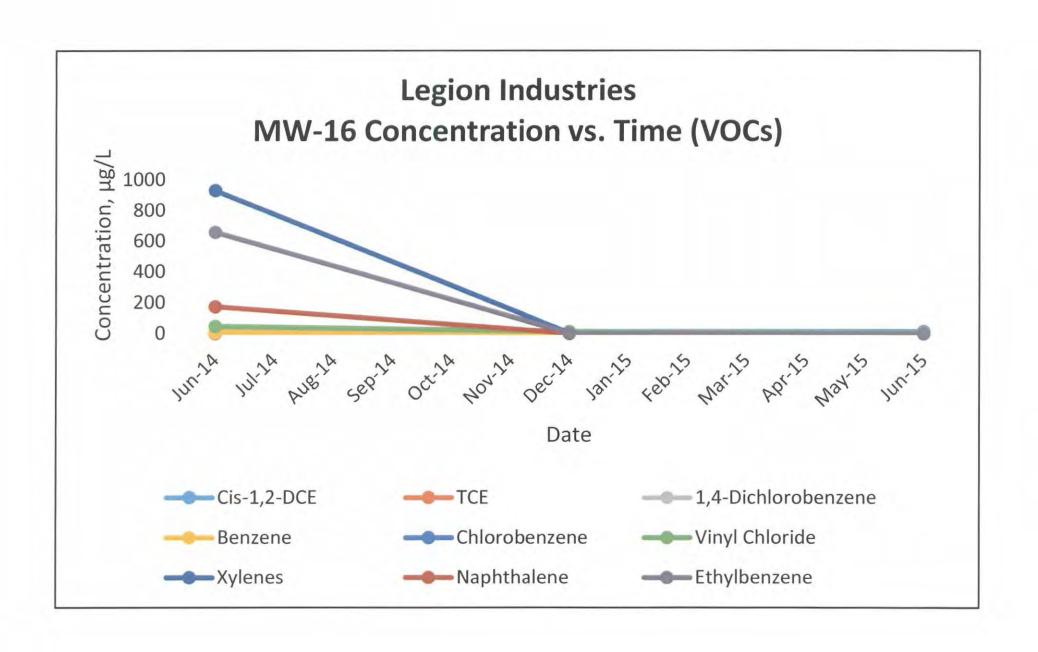


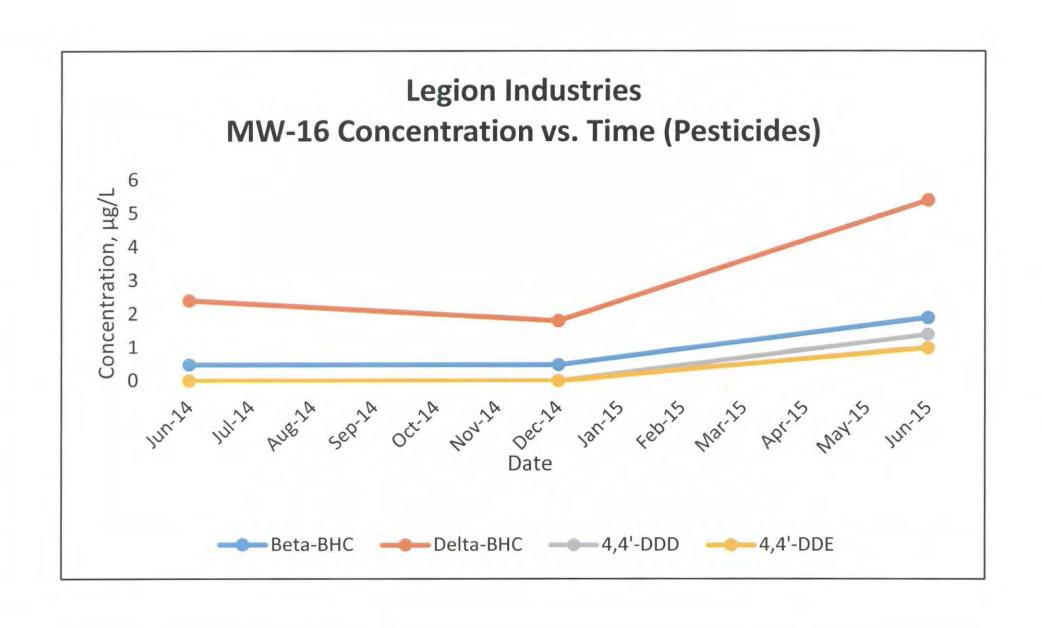


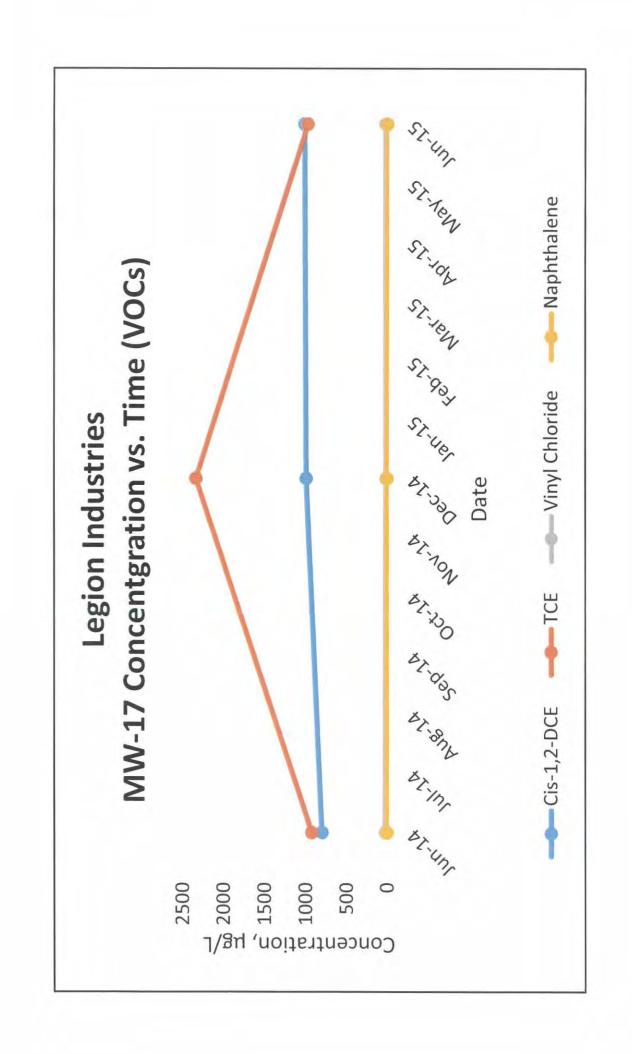


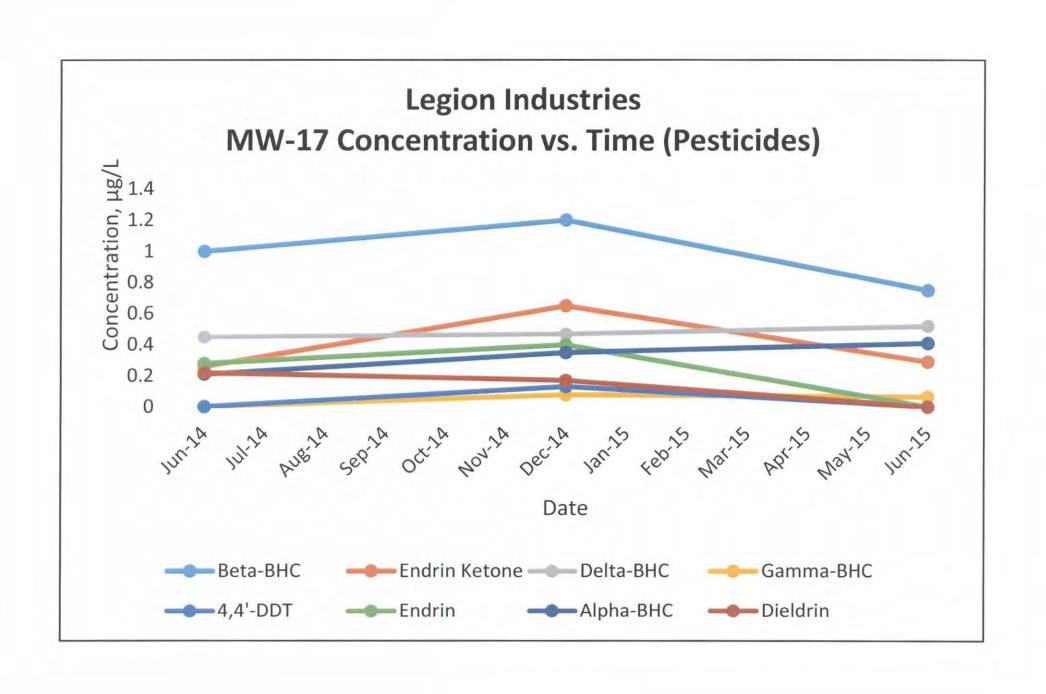


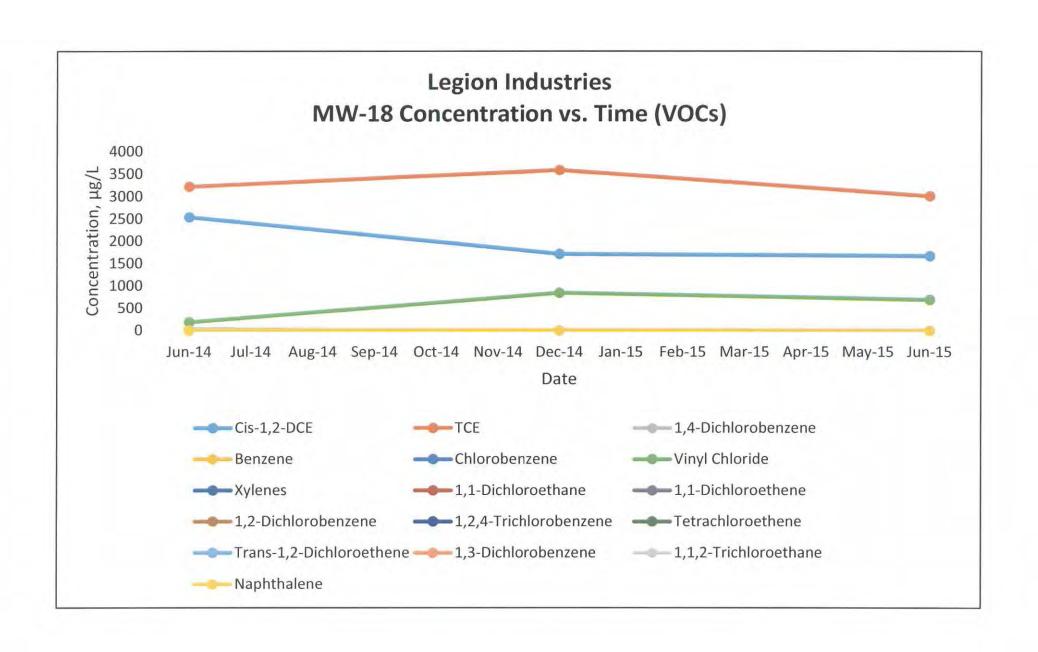


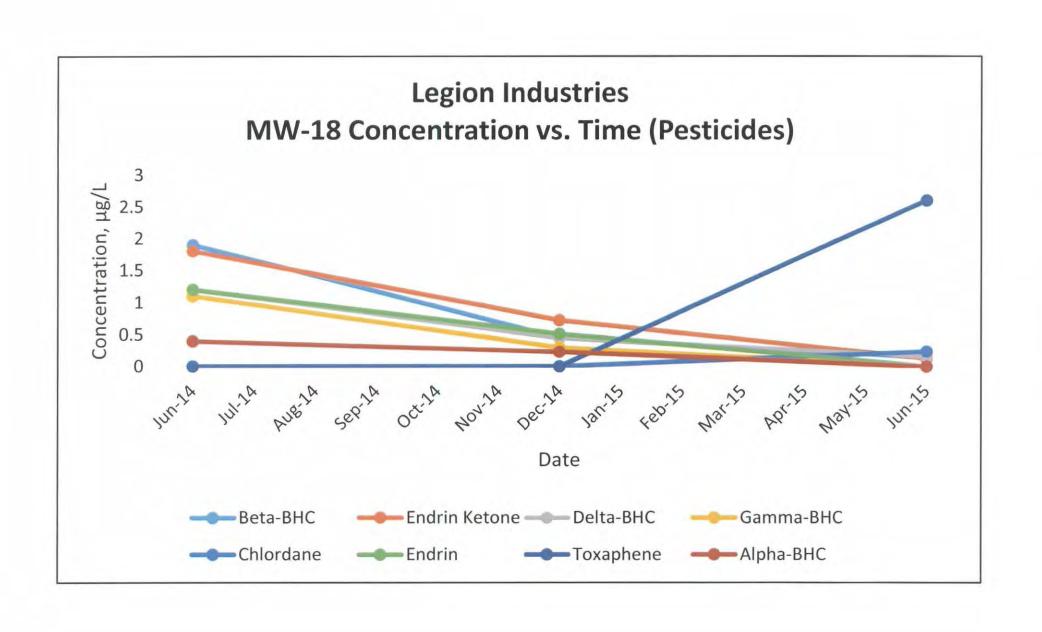


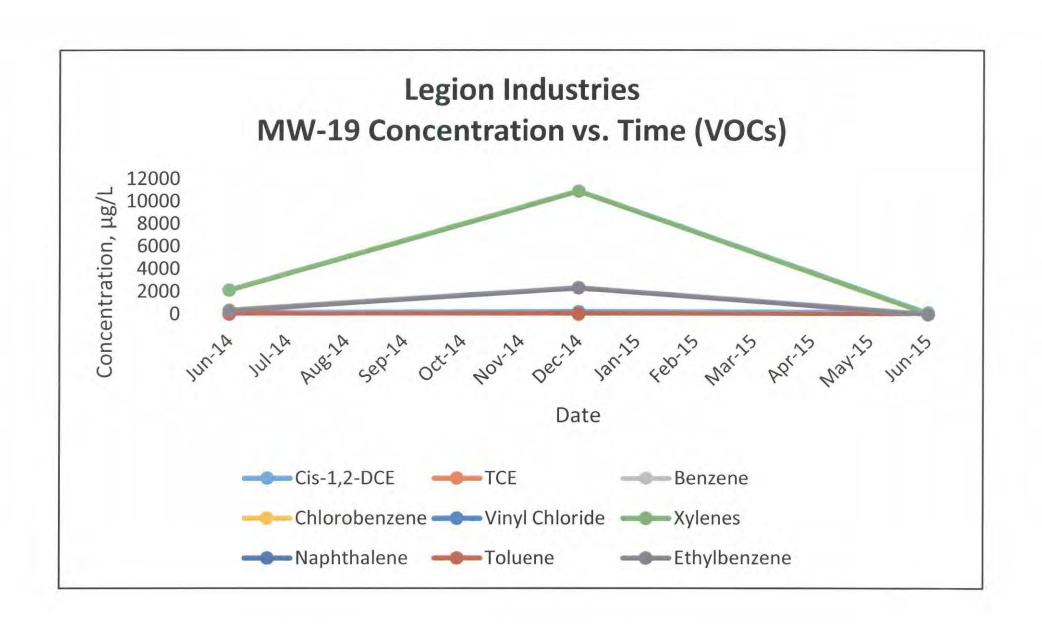


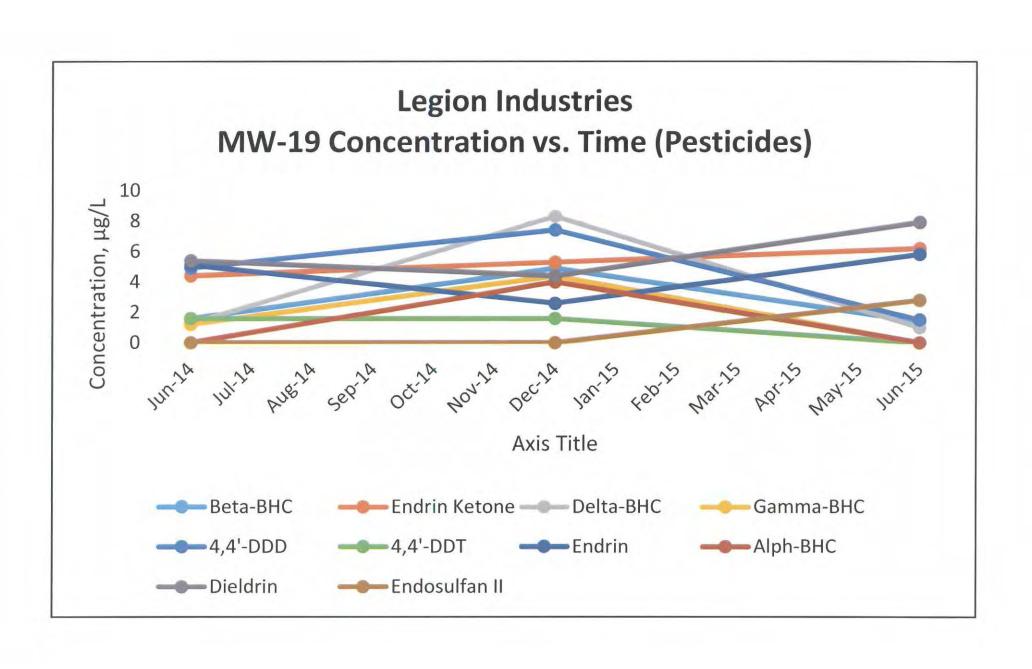


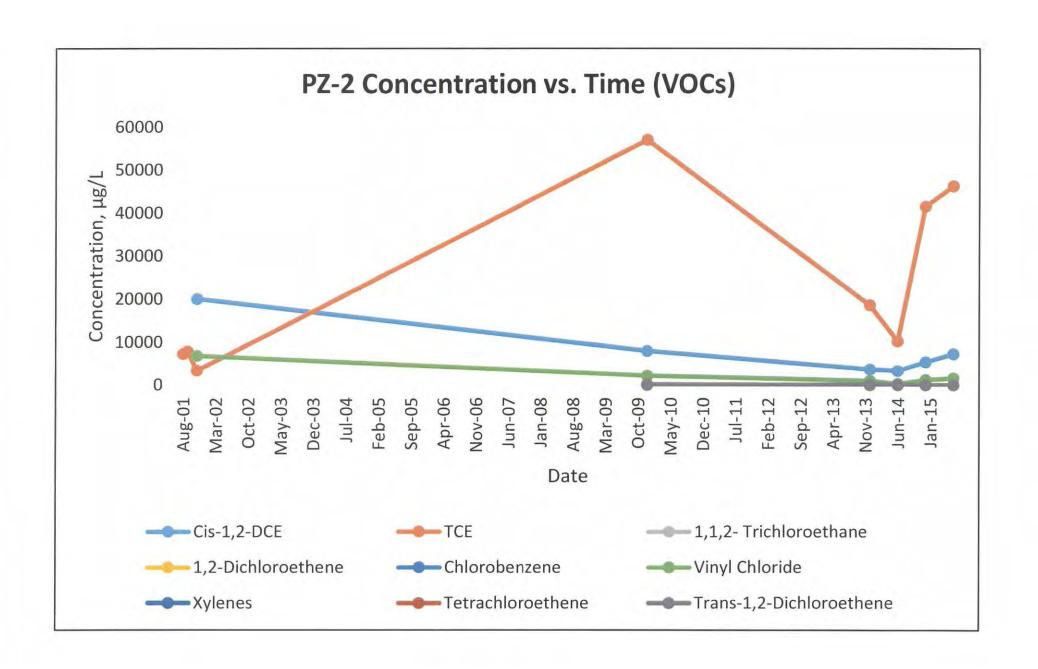


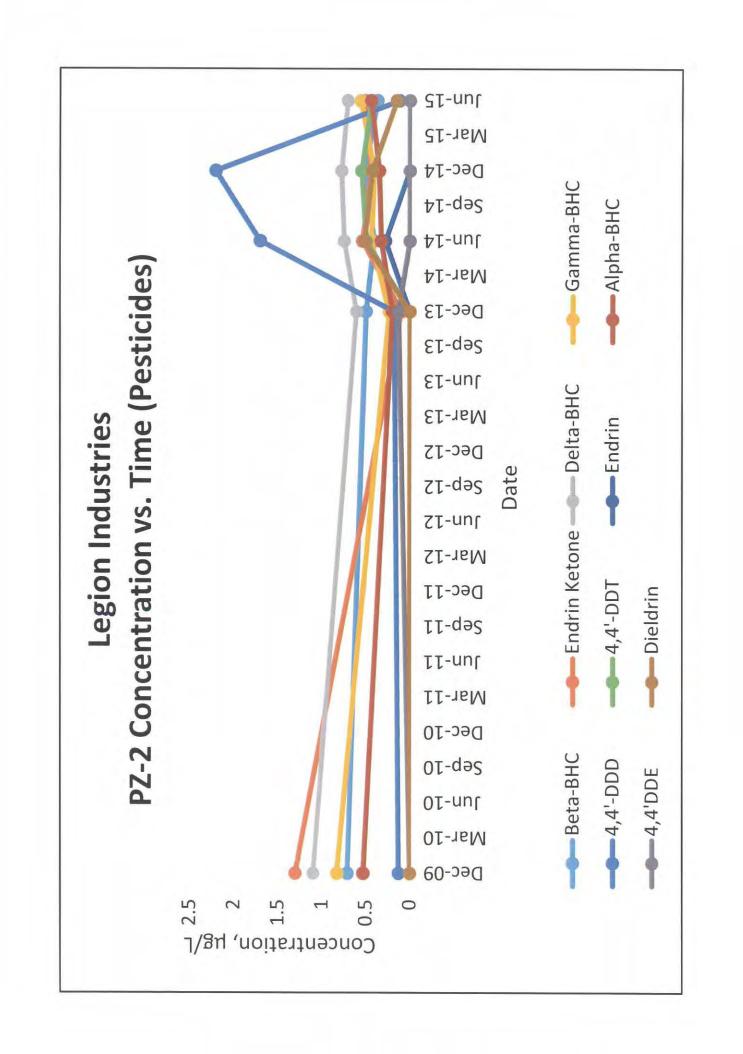












APPENDIX G
VAPOR INTRUSION MODELING

Table 1 - Summary of Soil Vapor Testing Results							
Legion Industries							
Sample Designation		Commercial	SS-1	SS-2	SS-3	SS-4	SS-5
Depth, ft.		Soil Gas VISLs	1	1	1	1	1
Date		(μg/m <sup>3</sup> )	8/10/2018	8/10/2018	8/10/2018	8/10/2018	8/10/2018
VOCs, μg/m³							
Benzene		524	<3.2	6.3	34	<3.2	<3.2
2-Butanone		730000	42	73	<30	<30	94
Chloroform		178	15	130	<4.9	<4.9	<4.9
1,1-Dichloroethane		2560	5.5	4.6	<4.1	<4.1	<4.1
cis-1,2-Dichloroethene			<4.0	750	<4.0	<4.0	<4.0
Ethylbenzene		1640	11	8.7	8.5	8.7	23
4-Ethyltoluene			<5.0	<5.0	<5.0	<5.0	5.5
2-Hexanone		4380	<8.3	10	<8.3	<8.3	13
4-Methyl-2-pentanone		438000	10	24	14	53	45
Tetrachloroethene		5840	<6.9	34	39	120	53
Toluene		730000	170	39	42	100	560
1,1,1-Trichloroethane		730000	<5.5	7.2	<5.5	21	<5.5
Trichloroethene		292	200	520	<5.5	<5.3	<5.3
1,2,4-Trimethylbenzene		8760	12	20	13	15	23
1,3,5-Trimethylbenzene		8760	<5.0	<5.0	<5.0	<5.0	8.1
Vinyl Chloride		929	<2.6	11	<2.6	<2.6	<2.6
m,p-Xylenes		14600	69	40	48	58	100
o-Xylenes		14600	27	18	18	24	36
Radon, pCi/L	Indoor Air	100	0.12	NT	NT	NT	0.05
	Sub-Slab	33,333	1216	NT	NT	NT	750
	Est. Attenuation		9.9E-05				6.70E-05

<sup>(</sup>a) Soil Gas Vapor Intrusion Screening Levels calculated using online VISL Calculator, May 2018. Based on hazard index of 1 and cancer risk of  $10^{-5}$ . Commercial Exposure Scenario.

Concentration exceeds soil gas VISL.

Prepared by: IMR 9/28/18 Checked by: LMS 10/2/18

<sup>(</sup>b) Radon Screening Level = 100 picocuries per liter (OSHA PEL) divided by literature soil gas to indoor air attenuation factor of 0.003.

## Table 2 Occupational Assumptions Used in Johnson & Ettinger Model Legion Industries Site

Parameter	Value	Justification			
Average Soil/Water Temp.	22.8° C	Site specific			
Depth Below Grade to Enclosed Space Floor	0.2 m	Slab on grade foundation			
Depth Below Grade to Soil Gas Sample	0.30 m	Site-specific			
Stratum A Soil Vapor Permeability	SC	Sandy Clay; site-specific			
SCS Soil Type	SC	Sandy Clay; site-specific			
Soil Dry Bulk Density	1.63 g/cm <sup>3</sup>	Sandy Clay – Model value			
Soil Total Porosity	0.385 unitless	Sandy Clay – Model value			
Soil Water-filled Porosity	0.197 cm <sup>3</sup> /cm <sup>3</sup>	Sandy Clay – Model value			
Enclosed Space Floor Thickness	0.2 m	Model default			
Enclosed Space Floor Length	9.91 m	Site-specific for office space (32.5 ft)*			
Enclosed Space Floor Width	36.58 m	Site-specific for office space (120 ft)*			
Enclosed Space Height	4.88 m	Ceiling height (16 ft) in manufacturing area			
Floor-Wall Seam Crack Width	0.001 m	Model default			
Indoor Air Exchange Rate	1.5/hr	Exposure Factors Handbook – 2011 Update. Mean for commercial buildings			
Averaging Time, Carcinogens	70 years	Model default			
Averaging Time,	25 years	Default for occupational			
Noncarcinogens					
Exposure Duration	25 years	Default for occupational			
Exposure Frequency	250 days/year	Default for occupational			
Target Risk for Carcinogens	1 x 10 <sup>-5</sup> unitless	Target Risk			
Target Hazard for Noncarcinogens	1 unitless	Target Hazard			

<sup>\*</sup>Most of the building consists of manufacturing space which covers an area 470 x 150 ft with 16 ft ceiling height. Offices are at the north end of the building covering a total of 3900 square feet.

Prepared by: IMR 09/26/18 Checked by: LMS 10/4/18

Table 3

Johnson and Ettinger Site-Specific Risk Calculations for the Vapor Intrusion Pathway
Legion Industries Site
Waynesboro, Georgia

	Maximum Site Soil Gas	Location of	Modeled Indoor Air	Incremental Carcinogenic	Hazard Quotient	Inhalation Unit	IUR	Reference Concentration	RfC
	Concentration <sup>(a)</sup>	Maximum Detected	Concentration <sup>(b)</sup>	Risk <sup>(b)</sup>	(HQ) <sup>(b)</sup>	Risk (IUR)	Source*	(RfC)	Source*
Parameter	(μg/m³)	Concentration	(μg/m³)	(unitless)	(unitless)	(μg/m³) <sup>-1</sup>		(mg/m³)	
Trichloroethylen	520	SS-2	1.60	2.0E-0€	0.18	4.1E-0€	IRIS	0.002	IRIS
			TOTAL:	2E-06	0.2				

<sup>(</sup>a) Maximum detected concentration from SS-1 through SS-5 during the August 2018 sampling event

μg/m³ micrograms per cubic meter mg/m³ milligrams per cubic meter IRIS - USEPA's Integrated Risk Information System

Prepared By/Date: <u>IMR 09/26/18</u> Checked By/Date: <u>LMS 10/4/18</u>

<sup>(</sup>b) Calculated using Johnson and Ettinger Model for Subsurface Vapor Intrusion into Buildings (Acessed September, 2018)

# **Default VISL Results Commercial Equation Inputs**

Variable	Value
Exposure Scenario	Commercial
Temperature for Groundwater Vapor Concentration C	22.8
THQ (target hazard quotient) unitless	1
TR (target risk) unitless	0.00001
AT <sub>w</sub> (averaging time - composite worker)	365
EF <sub>w</sub> (exposure frequency - composite worker) day/yr	250
ED <sub>w</sub> (exposure duration - composite worker) yr	25
ET <sub>w</sub> (exposure time - composite worker) hr	8
LT (lifetime) yr	70
AF <sub>gw</sub> (Attenuation Factor Groundwater) unitless	0.001
AF <sub>ss</sub> (Attenuation Factor Sub-Slab) unitless	0.03

### Vapor Intrusion Screening Levels (VISL)

Chemical	CAS Number	Does the chemical meet the definition for volatility? (HLC>1E-5 or VP>1)	Does the chemical have inhalation toxicity data?	Is Chemical Sufficiently Volatile and Toxic to Pose Inhalation Risk Via Vapor Intrusion from Soil Source? (C <sub>vp</sub> > C <sub>i,a</sub> ,Target?)
Benzene	71-43-2	Yes	Yes	Yes
Benzene, Ethylmethyl	25550-14-5	Yes	No	No Inhal. Tox. Info
Chloroform	67-66-3	Yes	Yes	Yes
Dichloroethane, 1,1-	75-34-3	Yes	Yes	Yes
Dichloroethylene, 1,2-cis-	156-59-2	Yes	No	No Inhal. Tox. Info
Ethylbenzene	100-41-4	Yes	Yes	Yes
Hexanone, 2-	591-78-6	Yes	Yes	Yes
Methyl Ethyl Ketone (2-Butanone)	78-93-3	Yes	Yes	Yes
Methyl Isobutyl Ketone (4-methyl-2-pentanone)	108-10-1	Yes	Yes	Yes
Tetrachloroethylene	127-18-4	Yes	Yes	Yes
Trichloroethane, 1,1,1-	71-55-6	Yes	Yes	Yes
Trichloroethylene	79-01-6	Yes	Yes	Yes
Trimethylbenzene, 1,2,4-	95-63-6	Yes	Yes	Yes
Trimethylbenzene, 1,3,5-	108-67-8	Yes	Yes	Yes
Vinyl Chloride	75-01-4	Yes	Yes	Yes
Xylene, P-	106-42-3	Yes	Yes	Yes
Xylene, m-	108-38-3	Yes	Yes	Yes
Xylene, o-	95-47-6	Yes	Yes	Yes

### Vapor Intrusion Screening |

Chemical	Is Chemical Sufficiently Volatile and Toxic to Pose Inhalation Risk Via Vapor Intrusion from Groundwater Source? (Chc > Ci,a,Target?)	Target Indoor Air Concentration (TCR=1E-05 or THQ=1) MIN(C <sub>ia,c</sub> ,C <sub>ia,nc</sub> ) (µg/m³)	Toxicity Basis	Target Sub-Slab and Near-source Soil Gas Concentration (TCR=1E-05 or THQ=1) C <sub>sg</sub> ,Target (μg/m³)	Target Groundwater Concentration (TCR=1E-05 or THQ=1) C <sub>gw</sub> ,Target (µg/L)
Benzene	Yes	15.7	CA	524	76
Benzene, Ethylmethyl	No Inhal. Tox. Info	-		-	-
Chloroform	Yes	5.33	CA	178	38.7
Dichloroethane, 1,1-	Yes	76.7	CA	2560	363
Dichloroethylene, 1,2-cis-	No Inhal. Tox. Info	-		-	-
Ethylbenzene	Yes	49.1	CA	1640	171
Hexanone, 2-	Yes	131	NC	4380	39000
Methyl Ethyl Ketone (2-Butanone)	Yes	21900	NC	730000	10400000
Methyl Isobutyl Ketone (4-methyl-2-pentanone)	Yes	13100	NC	438000	2610000
Tetrachloroethylene	Yes	175	NC	5840	271
Trichloroethane, 1,1,1-	Yes	21900	NC	730000	34100
Trichloroethylene	Yes	8.76	NC	292	23.9
Trimethylbenzene, 1,2,4-	Yes	263	NC	8760	1200
Trimethylbenzene, 1,3,5-	Yes	263	NC	8760	841
Vinyl Chloride	Yes	27.9	CA	929	25.8
Xylene, P-	Yes	438	NC	14600	1750
Xylene, m-	Yes	438	NC	14600	1680
Xylene, o-	Yes	438	NC	14600	2340

### Vapor Intrusion Screening |

Chemical	Is Target Groundwater Concentration < MCL? (C <sub>gw</sub> < MCL?)	Pure Phase Vapor Concentration C <sub>vp</sub> (22.8 °C) (μg/m³)	Maximum Groundwater Vapor Concentration C <sub>hc</sub> (µg/m³)	Temperature for Maximum Groundwater Vapor Concentration (°C)	Lower Explosive Limit LEL (% by volume)	LEL Ref	Inhalation Unit Risk (ug/m³) <sup>-1</sup>	IUR Ref
Benzene	No (5)	398000000	370000000	22.8	1.2	CRC89	0.0000078	I
Benzene, Ethylmethyl		55900000		22.8	-		-	
Chloroform	Yes (80)	1260000000	1090000000	22.8	-		0.000023	I
Dichloroethane, 1,1-		1210000000	1060000000	22.8	5.4	CRC89	0.0000016	С
Dichloroethylene, 1,2-cis-		1040000000	978000000	22.8	3	CRC89	-	
Ethylbenzene	Yes (700)	54800000	48400000	22.8	0.8	CRC89	0.0000025	С
Hexanone, 2-		62500000	58000000	22.8	1	CRC89	-	
Methyl Ethyl Ketone (2-Butanone)		351000000	471000000	22.8	1.4	CRC89	-	
Methyl Isobutyl Ketone (4-methyl-2-pentanone)		107000000	95700000	22.8	1.2	CRC89	-	
Tetrachloroethylene	No (5)	165000000	133000000	22.8	-		0.00000026	I
Trichloroethane, 1,1,1-	No (200)	890000000	829000000	22.8	8	CRC89	-	
Trichloroethylene	No (5)	488000000	468000000	22.8	8	CRC89	0.0000041	I
Trimethylbenzene, 1,2,4-		13600000	12500000	22.8	0.9	CRC89	-	
Trimethylbenzene, 1,3,5-		16000000	15100000	22.8	1	CRC89	-	
Vinyl Chloride	No (2)	10000000000	9510000000	22.8	3.6	CRC89	0.0000044	I
Xylene, P-		50500000	40600000	22.8	1.1	CRC89	-	
Xylene, m-		47300000	41900000	22.8	1.1	CRC89	-	
Xylene, o-		37700000	33400000	22.8	0.9	CRC89	-	

### Vapor Intrusion Screening |

Chemical	RfC (mg/m³)	RfC Ref	Mutagenic Indicator	VISL TCR=1E-05 C <sub>ia,c</sub> (µg/m³)	Noncarcinogenic VISL THQ=1 C <sub>ia,nc</sub> (µg/m³)
Benzene	0.03	I	No	15.7	131
Benzene, Ethylmethyl	-		No	-	-
Chloroform	0.0977	Α	No	5.33	428
Dichloroethane, 1,1-	-		No	76.7	-
Dichloroethylene, 1,2-cis-	-		No	-	-
Ethylbenzene	1	I	No	49.1	4380
Hexanone, 2-	0.03	I	No	-	131
Methyl Ethyl Ketone (2-Butanone)	5	I	No	-	21900
Methyl Isobutyl Ketone (4-methyl-2-pentanone)	3	I	No	-	13100
Tetrachloroethylene	0.04	I	No	472	175
Trichloroethane, 1,1,1-	5	I	No	-	21900
Trichloroethylene	0.002	I	Mut	29.9	8.76
Trimethylbenzene, 1,2,4-	0.06	I	No	-	263
Trimethylbenzene, 1,3,5-	0.06	I	No	-	263
Vinyl Chloride	0.1	I	Mut	27.9	438
Xylene, P-	0.1	S	No	-	438
Xylene, m-	0.1	S	No	-	438
Xylene, o-	0.1	S	No	-	438

Chemical	CAS Number	Does the chemical meet the definition for volatility? (HLC>1E-5 or VP>1)	Does the chemical have inhalation toxicity data?	MW	MW Ref	Vapor Pressure VP (mm Hg)	VP Ref	S (mg/L)
Benzene	71-43-2	Yes	Yes	78.12	PHYSPROP	94.8	PHYSPROP	1790
Benzene, Ethylmethyl	25550-14-5	Yes	No		PHYSPROP	2.88	PHYSPROP	74.5
Chloroform	67-66-3	Yes	Yes	119.4	PHYSPROP	197	PHYSPROP	7950
Dichloroethane, 1,1-	75-34-3	Yes	Yes	98.96	PHYSPROP	227	PHYSPROP	5040
Dichloroethylene, 1,2-cis-	156-59-2	Yes	No	96.94	PHYSPROP	200	PHYSPROP	6410
Ethylbenzene	100-41-4	Yes	Yes	106.2	PHYSPROP	9.6	PHYSPROP	169
Ethylphenol, 4-	123-07-9	No	No	122.2	PHYSPROP	0.0372	PHYSPROP	4900
Hexanone, 2-	591-78-6	Yes	Yes	100.2	PHYSPROP	11.6	PHYSPROP	17200
Methyl Ethyl Ketone (2-Butanone)	78-93-3	Yes	Yes	72.11	PHYSPROP	90.6	PHYSPROP	223000
Methyl Isobutyl Ketone (4-methyl-2-pentanone)	108-10-1	Yes	Yes	100.2	PHYSPROP	19.9	PHYSPROP	19000
Tetrachloroethylene	127-18-4	Yes	Yes	165.8	PHYSPROP	18.5	PHYSPROP	206
Trichloroethane, 1,1,1-	71-55-6	Yes	Yes	133.4	PHYSPROP	124	PHYSPROP	1290
Trichloroethylene	79-01-6	Yes	Yes	131.4	PHYSPROP	69	PHYSPROP	1280
Trimethylbenzene, 1,2,4-	95-63-6	Yes	Yes	120.2	PHYSPROP	2.1	PHYSPROP	57
Trimethylbenzene, 1,3,5-	108-67-8	Yes	Yes	120.2	PHYSPROP	2.48	PHYSPROP	48.2
Vinyl Chloride	75-01-4	Yes	Yes	62.5	PHYSPROP	2980	EPI	8800
Xylene, P-	106-42-3	Yes	Yes	106.2	PHYSPROP	8.84	PHYSPROP	162
Xylene, m-	108-38-3	Yes	Yes	106.2	PHYSPROP	8.29	PHYSPROP	161
Xylene, o-	95-47-6	Yes	Yes	106.2	PHYSPROP	6.61	PHYSPROP	178

						Henry's		Enthalpy of vaporization	
				Henry's	Henry's	Law		@ groundwater	
				Law	Law	Constant		temperature	Exponent
	S	MCL	HLC	Constant	Constant	<b>Used in Calcs</b>	H` and HLC	$\Delta H_{v,gw}$	for
Chemical	Ref	(ug/L)	(atm-m <sup>3</sup> /mole)	(unitless)	(22.8 °C)	(unitless)	Ref	(cal/mol)	$\Delta H_{v,gw}$
Benzene	PHYSPROP	5	0.00555	0.227	0.207	0.207	PHYSPROP	7990	0.34900178
Benzene, Ethylmethyl	PHYSPROP	-	0.00501	0.205	-	0.205	EPI	-	0.3
Chloroform	PHYSPROP	80	0.00367	0.15	0.138	0.138	PHYSPROP	7420	0.34546455
Dichloroethane, 1,1-	PHYSPROP	-	0.00562	0.23	0.211	0.211	PHYSPROP	7310	0.35134238
Dichloroethylene, 1,2-cis-	PHYSPROP	70	0.00408	0.167	0.153	0.153	PHYSPROP	7650	0.34425569
Ethylbenzene	PHYSPROP	700	0.00788	0.322	0.286	0.286	PHYSPROP	10000	0.37475515
Ethylphenol, 4-	PHYSPROP	-	0.000000773	3.16E-05	2.63E-05	0.0000263	PHYSPROP	15200	0.39150978
Hexanone, 2-	PHYSPROP	-	0.0000932	0.00381	0.00337	0.00337	EPI	10300	0.38946276
Methyl Ethyl Ketone (2-Butanone)	PHYSPROP	-	0.0000569	0.00233	0.00211	0.00211	PHYSPROP	8260	0.36996089
Methyl Isobutyl Ketone (4-methyl-2-pentanone)	PHYSPROP	-	0.000138	0.00564	0.00504	0.00504	EPI	9650	0.38511401
Tetrachloroethylene	PHYSPROP	5	0.0177	0.724	0.648	0.648	PHYSPROP	9430	0.35479516
Trichloroethane, 1,1,1-	PHYSPROP	200	0.0172	0.703	0.643	0.643	PHYSPROP	7740	0.35535963
Trichloroethylene	PHYSPROP	5	0.00985	0.403	0.366	0.366	PHYSPROP	8240	0.3510035
Trimethylbenzene, 1,2,4-	PHYSPROP	-	0.00616	0.252	0.219	0.219	PHYSPROP	11500	0.38841072
Trimethylbenzene, 1,3,5-	PHYSPROP	-	0.00877	0.359	0.313	0.313	PHYSPROP	11500	0.39240094
Vinyl Chloride	PHYSPROP	2	0.0278	1.14	1.08	1.08	PHYSPROP	4580	0.33644471
Xylene, P-	PHYSPROP	-	0.0069	0.282	0.25	0.25	PHYSPROP	10100	0.37805391
Xylene, m-	PHYSPROP	-	0.00718	0.294	0.26	0.26	PHYSPROP	10100	0.37851289
Xylene, o-	PHYSPROP	-	0.00518	0.212	0.188	0.188	PHYSPROP	10300	0.37437064

	Vapor Pressure VP		D <sub>ia</sub>	D <sub>ia</sub> Used in			D <sub>iw</sub>	D <sub>iw</sub> Used in
	(22.8 ℃)	D <sub>ia</sub>	(22.8 °C)	Calcs	D <sub>ia</sub>	D <sub>iw</sub>	(22.8 °C)	Calcs
Chemical	(mm Hg)	(cm <sup>2</sup> /s)	(cm²/s)	(cm²/s)	Ref	(cm²/s)	(cm²/s)	(cm <sup>2</sup> /s)
Benzene	363000000	0.0895	0.08854	0.08854	WATER9 (U.S. EPA, 2001)	0.0000103	0.0000102	0.0000102
Benzene, Ethylmethyl	-	0.017	0.016826	0.016826	WATER9 (U.S. EPA, 2001)	4.07E-06	4.0424E-06	4.0424E-06
Chloroform	1160000000	0.0769	0.076066	0.076066	WATER9 (U.S. EPA, 2001)	0.0000109	0.0000108	0.0000108
Dichloroethane, 1,1-	1110000000	0.0836	0.082716	0.082716	WATER9 (U.S. EPA, 2001)	0.0000106	0.0000105	0.0000105
Dichloroethylene, 1,2-cis-	954000000	0.0884	0.087425	0.087425	WATER9 (U.S. EPA, 2001)	0.0000113	0.0000113	0.0000113
Ethylbenzene	48700000	0.0685	0.067705	0.067705	WATER9 (U.S. EPA, 2001)	8.46E-06	8.3932E-06	8.3932E-06
Ethylphenol, 4-	203000	0.0772	0.077169	0.077169	WATER9 (U.S. EPA, 2001)	9.02E-06	9.0166E-06	9.0166E-06
Hexanone, 2-	55300000	0.0704	0.069576	0.069576	WATER9 (U.S. EPA, 2001)	8.44E-06	8.3779E-06	8.3779E-06
Methyl Ethyl Ketone (2-Butanone)	319000000	0.0914	0.090431	0.090431	WATER9 (U.S. EPA, 2001)	0.0000102	0.0000101	0.0000101
Methyl Isobutyl Ketone (4-methyl-2-pentanone)	95500000	0.0698	0.069005	0.069005	WATER9 (U.S. EPA, 2001)	8.35E-06	8.2858E-06	8.2858E-06
Tetrachloroethylene	148000000	0.0505	0.049906	0.049906	WATER9 (U.S. EPA, 2001)	9.46E-06	9.385E-06	9.385E-06
Trichloroethane, 1,1,1-	813000000	0.0648	0.064098	0.064098	WATER9 (U.S. EPA, 2001)	0.0000096	9.5279E-06	9.5279E-06
Trichloroethylene	443000000	0.0687	0.0679	0.0679	WATER9 (U.S. EPA, 2001)	0.0000102	0.0000101	0.0000101
Trimethylbenzene, 1,2,4-	11800000	0.0607	0.060002	0.060002	WATER9 (U.S. EPA, 2001)	7.92E-06	7.8621E-06	7.8621E-06
Trimethylbenzene, 1,3,5-	14000000	0.0602	0.059557	0.059557	WATER9 (U.S. EPA, 2001)	7.84E-06	7.7849E-06	7.7849E-06
Vinyl Chloride	9530000000	0.107	0.105931	0.105931	WATER9 (U.S. EPA, 2001)	0.000012	0.0000119	0.0000119
Xylene, P-	44800000	0.0682	0.067491	0.067491	WATER9 (U.S. EPA, 2001)	8.42E-06	8.3575E-06	8.3575E-06
Xylene, m-	42000000	0.0684	0.067607	0.067607	WATER9 (U.S. EPA, 2001)	8.44E-06	8.3768E-06	8.3768E-06
Xylene, o-	33400000	0.0689	0.068155	0.068155	WATER9 (U.S. EPA, 2001)	8.53E-06	8.4682E-06	8.4682E-06

						Enthalpy of			
		Normal				vaporization at			
		Boiling		Critical		the normal			
	_	Point		Temperature	_	boiling point		1/	
	D <sub>iw</sub>	T <sub>boil</sub>	BP	T <sub>crit</sub>	$T_{crit}$	$\Delta H_{v,b}$	$\Delta H_{v,b}$	K <sub>oc</sub>	K <sub>oc</sub>
Chemical	Ref	(K)	Ref	(K)	Ref	(cal/mol)	Ref	(cm <sup>3</sup> /g)	Ref
Benzene	WATER9 (U.S. EPA, 2001)	353.15	PHYSPROP	562	CRC89	7340	CRC89	145.8	EPI
Benzene, Ethylmethyl	WATER9 (U.S. EPA, 2001)	435.15	EPI	-		-		715.8	EPI
Chloroform	WATER9 (U.S. EPA, 2001)	334.25	PHYSPROP	536	CRC89	6990	Weast	31.82	EPI
Dichloroethane, 1,1-	WATER9 (U.S. EPA, 2001)	330.55	PHYSPROP	523	CRC89	6900	CRC89	31.82	EPI
Dichloroethylene, 1,2-cis-	WATER9 (U.S. EPA, 2001)	333.25	PHYSPROP	536	CRC89	7220	CRC89	39.6	EPI
Ethylbenzene	WATER9 (U.S. EPA, 2001)	409.25	PHYSPROP	617	CRC89	8500	CRC89	446.1	EPI
Ethylphenol, 4-	WATER9 (U.S. EPA, 2001)	491.05	PHYSPROP	716	CRC89	11900	YAWS	573	EPI
Hexanone, 2-	WATER9 (U.S. EPA, 2001)	400.75	PHYSPROP	587	CRC89	8690	CRC89	14.98	EPI
Methyl Ethyl Ketone (2-Butanone)	WATER9 (U.S. EPA, 2001)	352.65	PHYSPROP	537	CRC89	7480	CRC89	4.51	EPI
Methyl Isobutyl Ketone (4-methyl-2-pentanone)	WATER9 (U.S. EPA, 2001)	389.65	PHYSPROP	575	CRC89	8240	CRC	12.6	EPI
Tetrachloroethylene	WATER9 (U.S. EPA, 2001)	394.45	PHYSPROP	620	YAWS	8290	Weast	94.94	EPI
Trichloroethane, 1,1,1-	WATER9 (U.S. EPA, 2001)	347.15	PHYSPROP	545	YAWS	7140	Weast	43.89	EPI
Trichloroethylene	WATER9 (U.S. EPA, 2001)	360.35	PHYSPROP	571	YAWS	7510	Weast	60.7	EPI
Trimethylbenzene, 1,2,4-	WATER9 (U.S. EPA, 2001)	442.45	PHYSPROP	649	CRC89	9370	Т	614.3	EPI
Trimethylbenzene, 1,3,5-	WATER9 (U.S. EPA, 2001)	437.85	PHYSPROP	637	CRC89	9320	Т	602.1	EPI
Vinyl Chloride	WATER9 (U.S. EPA, 2001)	259.85	PHYSPROP	425	CRC89	4970	CRC89	21.73	EPI
Xylene, P-	WATER9 (U.S. EPA, 2001)	411.38	PHYSPROP	616	CRC89	8530	Weast	375.3	EPI
Xylene, m-	WATER9 (U.S. EPA, 2001)	412.25	PHYSPROP	617	CRC89	8520	Weast	375.3	EPI
Xylene, o-	WATER9 (U.S. EPA, 2001)	417.65	PHYSPROP	630	CRC89	8660	Weast	382.9	EPI

Chemical	Lower Explosive Limit LEL (% by volume)	LEL Ref
Benzene	1.2	CRC89
Benzene, Ethylmethyl	-	
Chloroform	-	
Dichloroethane, 1,1-	5.4	CRC89
Dichloroethylene, 1,2-cis-	3	CRC89
Ethylbenzene	0.8	CRC89
Ethylphenol, 4-	-	
Hexanone, 2-	1	CRC89
Methyl Ethyl Ketone (2-Butanone)	1.4	CRC89
Methyl Isobutyl Ketone (4-methyl-2-pentanone)	1.2	CRC89
Tetrachloroethylene	-	
Trichloroethane, 1,1,1-	8	CRC89
Trichloroethylene	8	CRC89
Trimethylbenzene, 1,2,4-	0.9	CRC89
Trimethylbenzene, 1,3,5-	1	CRC89
Vinyl Chloride	3.6	CRC89
Xylene, P-	1.1	CRC89
Xylene, m-	1.1	CRC89
Xylene, o-	0.9	CRC89

Model Input

Site Name/Run Number: Legion Industries SG

Note:

-Yellow highlighted cells indicate parameters that typically are changed or must be inputted by

the user.

-Dotted outline cells indicate default values that may be changed with justification.
-Toxicity values are taken from Regional Screening Level tables. These tables are updated semi-annually and may not reflect the most current toxicity information.

Use English / Metric Converter

True Characteristics:  Units Symbol Value Default Span CV Flag Comment  Source Sub-slab Sol Gas Dil gas concentration (ug/m3) Cmedium 520 Default Span Sub-slab Sol Gas Dil gas concentration (ug/m3) Cmedium 520 Default Sub-slab Sol Gas Dil gas concentration (ug/m3) Cmedium 520 Default Sub-slab Sol Gas Dil gas concentration (ug/m3) Cmedium 520 Default Sub-slab Sol Gas Dil gas concentration NA Di
coligas concentration (ug/m3) Cmedium 520 NA Vary - 50 NA NA NA NA NA NA NA NA NA NA NA NA NA
epth below grade to soil gas sample (m) Ls 0.30 Vary - 50 NA  verage vadose zone temperature (°C) Ts 22.8 25 3-30  Calc: Source vapor concentration (ug/m3) Cs 520  Calc: % of pure component saturated vapor concentration (%) %Sat 0.000%  concentration Value Default Span CV Flag Comment  hemical Name Chem Trichloroethylene  CAS No. CAS 79-01-6  city Factors  It isk factor (ug/m³) 1 IUR see note see note NA NA NA NA NA Seference concentration (mg/m³) RiC 2.00E-03 2.00E-03 NA NA NA NA NA NA NA NA NA NA NA NA NA
verage vadose zone temperature  Calc: Source vapor concentration  Calc: % of pure component saturated vapor concentration  Calc: % of pure component saturated vapor concentration  Calc: % of pure component saturated vapor concentration  (%)
Calc: Source vapor concentration (ug/m3) Cs 520 Calc: % of pure component saturated vapor (%) %Sat 0.000%  Pernical:  Units Symbol Value Default Span CV Flag Comment  hemical Name CAS 79-01-6  City Factors  It isk factor (ug/m³) 1 IUR see note see note NA NA NA NA NA NA NA NA NA NA NA NA NA
Calc: % of pure component saturated vapor concentration  (%)
concentration (%) %Saft 0.000%  Princial:  Units Symbol Value Default Span CV Flag Comment  hemical Name  CAS No. CAS 79-01-6  City Factors  It risk factor (ug/m³)¹ IUR see note see note NA NA NA NA NA efference concentration (mg/m³) RiC 2.00E-03 2.00E-03 NA NA NA  Potential Span CV Flag Comment  NA NA NA NA NA NA NA NA NA NA NA NA NA N
Comment   Comm
CAS No.  CAS 79-01-6  City Factors  It risk factor (ug/m³)¹¹ IUR see note see note NA NA NA NA Utagenic compound Mut Yes NA NA NA NA NA Seference concentration (mg/m³) R/C 2.00E-03 2.00E-03 NA NA NA NA NA NA NA NA NA NA NA NA NA
city Factors  It risk factor (ug/m³)¹¹ IUR see note see note NA NA  utagenic compound Mut Yes NA NA NA  eference concentration (mg/m³) RfC 2.00E-03 2.00E-03 NA NA  Potential
nit risk factor (ug/m³)¹¹ IUR see note see note NA NA NA utagenic compound Mut Yes NA NA NA NA NA seference concentration (mg/m³) RfC 2.00E-03 2.00E-03 NA NA NA NA NA NA NA NA NA NA NA NA NA
utagenic compound         Mut         Yes         NA         NA         NA           eference concentration         (mg/m³)         RfC         2.00E-03         2.00E-03         NA         NA
utagenic compound         Mut         Yes         NA         NA         NA           eference concentration         (mg/m³)         RfC         2.00E-03         2.00E-03         NA         NA
Patential
Potential CV Flor
emical Properties: Units Symbol Value Default Span CV Flag Comment
re component water solubility (mg/L) S 1.28E+03 1.28E+03 NA NA
enry's Law Constant @ 25°C (atm-m³/mol) Hc 9.85E-03 9.85E-03 NA NA
Calc: Henry's Law Constant @ 25°C (dimensionless) Hr 4.03E-01 4.03E-01
Calc: Henry's Law Constant  @ system temperature  (dimensionless) Hs 3.65E-01 4.06E-01
ffusivity in air (cm2/s) Dair <u>6.87E-02</u> 6.87E-02 NA NA
ffusivity in water (cm2/s) Dwater 1.02E-05 1.02E-05 NA NA  ding Characteristics:
ect Building Assumptions
Use ratio for Qsoli/Qbuilding (recommended if no site specific data available)  Dispectly Qsoli and Qbuilding separately; calculate ratio  Units Symbol Value Default Potential CV Flag Comment
Specify Qsoil and Qbuilding separately; calculate ratio    Units Symbol Value Default Potential CV Flag Comment
Units Symbol Value Default Potential CV Flag Comment
Units Symbol Value Default Potential Syan CV Flag Comment Bldg_Setting Commercial Commercial
Units Symbol Value Default Potential Span CV Flag Comment Bldg_Setting Commercial Commercial Span Stab-on-grade Slab-on-grade
Units Symbol Value Default Span CV Flag Comment Uniday setting Commercial Symbol Slab-on-grade Depth below grade to base of foundation (m) Lb 0.20 0.20 0.1 · 2.44 NA
Units Symbol Value Default Potential Span CV Flag Comment  Ulding setting Commercial Span Slab-on-grade  Depth below grade to base of foundation thickness (m) Lf 0.20 0.20 0.1 - 0.25 NA
Units Symbol Value Default Potential Span CV Flag Comment  Bldg_Setting Commercial Commercial Slab-on-grade  Depth below grade to base of foundation (m) Lb 0.20 0.20 0.1 - 0.25 NA  Fraction of foundation area with cracks (-) eta 0.001 0.001 0.00019-0.0019 1.00
Units Symbol Value Default Span CV Flag Comment  Ulding setting Bldg_Setting Commercial Slab-on-grade  Depth below grade to base of foundation thickness (m) Lf 0.20 0.20 0.1 - 0.25 NA Fraction of foundation area with cracks (·) eta 0.001 0.001 0.0001 9.00019 1.00  Enclosed space floor area (m2) Abf 362.51 362.51 80-1000 NA
Units Symbol Value Default Span CV Flag Comment  Uniding setting  Bldg_Setting Commercial Sub-on-grade  Depth below grade to base of foundation thickness (m) Lf 0.20 0.20 0.1 - 0.25 NA  Fraction of foundation area with cracks (-) eta 0.001 0.001 0.00019-0.0019  Enclosed space floor area (m2) Abf 362.51 362.51 80-1000 NA  Enclosed space mixing height (m) Hb 4.88 4.88 2.13 - 3.05 NA WARNING Value is outside of reasonable range
Units Symbol Value Default Span CV Flag Comment  Uniding setting Default Span CV Flag CV Flag Comment  Uniding setting Default Span CV Flag

Model Input
Chemical Name: Trichloroethylene
Depth below grade to soil gas sample:

Site Name/Run Number:
CAS No. 79-01-6
0.30 meters

Vadose zone characteristics:	Units	Symbol	Value	Default	Potential Span	CV	Flag	Comment
Stratum A (Top of soil profile):		_						
Stratum A SCS soil type		SCS_A	Sandy Clay					
Stratum A thickness (from surface)	(m)	hSA	0.30					
Stratum A total porosity	(-)	nSA	0.385	0.385	NA	0.20		
Stratum A water-filled porosity	(-)	nwSA	0.197	0.197	0.117 - 0.28	0.25		
Stratum A bulk density	(g/cm³)	rhoSA	1.630	1.630	NA	0.05		
ratum B (Soil layer below Stratum A):		_		•				
Stratum B SCS soil type		SCS_B	Not Present					
Stratum B thickness	(m)	hSB	0.00					
Stratum B total porosity	(-)	nSB			NA	NA		
Stratum B water-filled porosity	(-)	nwSB			NA	NA		
Stratum B bulk density	(g/cm³)	rhoSB			NA	NA		
ratum C (Soil layer below Stratum B):		_		•				
Stratum C SCS soil type		scs_c	Not Present					
Stratum C thickness	(m)	hSC	0.00					
Stratum C total porosity	(-)	nSC			NA	NA		
Stratum C water-filled porosity	(-)	nwSC			NA	NA		
Stratum C bulk density	(g/cm³)	rhoSC			NA	NA		
ratum containing soil gas sample								
Stratum A, B, or C		src_soil	Stratum A					
					NA	NA		
					NA			
					NA			
xposure Parameters:	Units	Symbol	Value	Default	Potential Span	CV	Flag	Comment
Target risk for carcinogens	(-)	Target_CR	1.00E-05	1.00E-06	NA	NA	WARNING	Value is different from default value; pleas
Target hazard quotient for non-carcinogens	(-)	Target_HQ	1	1	NA	NA		
Exposure Scenario		Scenario	Commercial	Commercial				
Averaging time for carcinogens	(yrs)	ATC	70	70	NA	NA		
Averaging time for non-carcinogens	(yrs)	ATnc	25	25	NA	NA		
Exposure duration	(yrs)	ED	25	25	NA	NA		
Exposure frequency	(days/yr)	EF	250	250	NA	NA		
Exposure time	(hrs/24 hrs)	ET	8	8	NA	NA		
Mutagenic mode-of-action factor	(yrs)	MMOAF	72	72	NA	NA		MMOAF used in place of ED in risk calculati

Range is based on the reasonable range of Osoil/Obuilding values, as reported in the literature.

Chemical Name: Trichloroethylene CAS No. 79-01-6		Legion industries 3G				values, as reported in the li	iterature.	
Source to Indoor Air Attenuation Factor	Units	Symbol	Value	Range	Default	Default Range	Flag	Comment
Soil gas to indoor air attenuation coefficient	(-)	alpha	3.0E-03	1.0E-04 - 5.0E-02	3.0E-03	1.0E-04 - 5.0E-02	WARNING	Please review warning messages
Predicted Indoor Air Concentration	Units	Symbol	Value	Range	Default	Default Range	Flag	Comment
Indoor air concentration due to vapor intrusion	(ug/m3)	Cia	1.6E+00	5.2E-02 - 2.6E+01	1.6E+00	5.2E-02 - 2.6E+01		
	(ppbv)		2.9E-01	9.7E-03 - 4.8E+00	2.9E-01	9.7E-03 - 4.8E+00	WARNING	Please review warning messages
Predicted Vapor Conc. Beneath Foundation	Units	Symbol	Value	Range	Default	Default Range	Flag	Comment
Subslab vapor concentration	(ug/m3)	Css	5.2E+02	5.2E+02 - 5.2E+02	5.2E+02	5.2E+02 - 2.6E+05		
	(ppbv)		9.7E+01	9.7E+01 - 9.7E+01	9.7E+01	9.7E+01 - 4.8E+04		
Diffusive Transport Upward Through Vadose Zone	Units	Symbol	Value	Range	Default	Default Range	Flag	Comment
Effective diffusion coefficient through Stratum A	(cm2/sec)	DeffA	1.8E-03	-	1.8E-03	-		
Effective diffusion coefficient through Stratum B	(cm2/sec)	DeffB		-		-		
Effective diffusion coefficient through Stratum C	(cm2/sec)	DeffC		-				
Effective diffusion coefficient through unsaturated zone	(cm2/sec)	DeffT	1.8E-03	-	1.8E-03	-		
Critical Parameters		Symbol	Value	Range	Default	Default Range	Flag	
α for diffusive transport from source to building with dirt floor foundation	(-)	A_Param	8.7E-04	-	8.7E-04			
Pe (Peclet Number) for transport through the foundation (advection / diffusion)	(-)	B_Param	6.6E+03	2.2E+02 - 1.1E+05	6.6E+03	2.2E+02 - 1.1E+05		
$\boldsymbol{\alpha}$ for convective transport from subslab to building	(-)	C_Param	3.0E-03	1.0E-04 - 5.0E-02	3.0E-03	1.0E-04 - 5.0E-02		
nterpretation	(	Concentration versus	Depth Profile					
Advection is the dominant mechanism across the foundation.  Diffusion through soil and advection through foundation both cont	trol intrusio	0.0		Measured				
Critical Parameters		0.4						
Hb, Ls, DeffT, ach, Qsoil_Qb		0.0 Depth (380 Depth (				■ Measured		
		1.0						
Non-Critical Parameters		1.2						
Lf, DeffA, eta		0.0E+00 2.0E-0		6.0E-01 8.0E-0 as Concentration (ug/m3)	1 1.0E+00	1.2E+00		

Please check WARNING or ERROR flags

Site Name/Run Number: Legion Industries SG

**Model Output** 

Model Output Site Name/Run Number: Legion Industries SG CAS No. 79-01-6

	CAS NO. 79-01-6				- · ·	_		•
Risk Calculations	Units	Symbol	Value	Range	Default	Range	Flag	Comment
Risk-Based Target Screening Levels	Scenario: Commercial							
Target risk for carcinogens	(-)	Target_CR	1E-05		1E-06	-		
Target hazard quotient for noncarcinogens	(-)	Target_HQ	1	-	1	-		
Target indoor air concentration	(ug/m3)	Target_IA	2.05E+01	-	2.05E+00		Target indoor air concentration based	on both cancer risk and non-cancer toxicity
	(ppbv)		3.82E+00		3.82E-01	-		
Target soil gas concentration	(ug/m3)	Target_SV	6.84E+03	4.1E+02 - 2.1E+05	6.84E+02	4.1E+01 - 2.1E+04		
Incremental Risk Estimates								
Incremental cancer risk from vapor intrusion	(-)	Cancer_Risk	2.02E-06	6.7E-08 - 3.4E-05	2.02E-06	6.7E-08 - 3.4E-05		
Hazard quotient from vapor intrusion	(-)	HQ	1.78E-01	5.9E-03 - 3.0E+00	1.78E-01	5.9E-03 - 3.0E+00		

### APPENDIX H NEIGHBORING PROPERTY CONTACT DOCUMENTATION



**HELENA CHEMICAL COMPANY** 

225 Schilling Blvd., Suite 300 Collierville, Tennessee 38017 Phone: (901) 761-0050

December 9, 2013

Charles A. Brown
President
Legion Industries, Inc.
370 Mills Rd.
Waynesboro, GA 30830

Dear Mr. Brown,

I am in receipt of your letter to our Mr. George Tedder of our Waynesboro, GA branch location. Your letter requests that Helena enter into a Site Access Agreement with your consultant, AMEC, for the purpose of installing a groundwater monitoring well on Helena property.

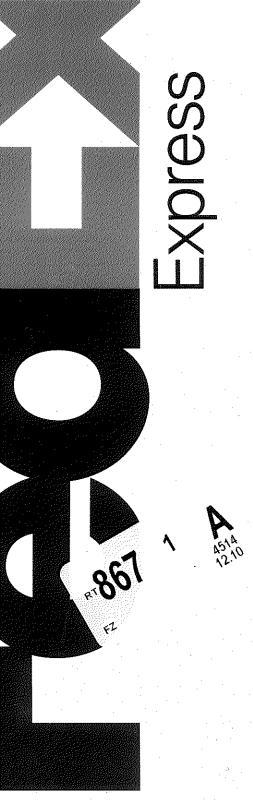
Helena has no interest in having a groundwater monitoring well placed on its property at 900 Davis Rd. in Waynesboro. Therefore we will not be entering into a Site Access Agreement with AMEC.

Sincerely,

Ed Brister

Director, Regulatory Compliance/Engineering

Helena Chemical Co.



From: (901) 537-8601 April Martin Helena Chemical Company 225 Schilling Blvd.

Collierville, TN 38017





**BILL SENDER** 

SHIP TO: (706) 554-4411 Charles A. Brown Legion Industries Inc 370 Mills Road

WAYNESBORO, GA 30830

Origin ID: HKAA

Delivery Address Bar Code

Ship Date: 09DEC13 ActWgt 1.0 LB CAD: 9061454/NET3430



Ref# Invoice# PO# Dept#

TUE - 10 DEC 4:30P PRIORITY OVERNIGHT

TRK# 0201

7973 4745 4514

**XH AGSA** 

30830 GA-US CAE

Align bottom of peel and stick airbill or pouch here.

#### Chuck Brown

From: Matt Piell [mpiell@synergywms.com]
Sent: Friday, October 02, 2015 8:26 AM
To: <a href="mailto:</a> <a href="mailto:com">cbrown@legionindustries.com</a>

Subject: Re: Georgia's Voluntary Remediation Program 10/2/15

I sent your email to Bill last week and he was checking into whether we could help or not. He will be contacting you either today or early next week. His name is Bill Creekmore - wcreekmore@synergywms.com

Matt

Sent from my iPhone

On Oct 2, 2015, at 4:31 AM, Chuck Brown < cbrown@legionindustries.com > wrote:

I would appreciate your advising Legion who the Synergy contact person is for our future communications re your property:

321 Mills Road Waynesboro, Ga. 30830

Thanks,

Chuck Brown

#### cbrown@legionindustries.com

From: Chuck Brown [mailto:cbrown@legionindustries.com]

Sent: Friday, September 25, 2015 12:01 PM

To: (mpiell@synergywms.com)

Subject: Georgia's Voluntary Remediation Program

#### Mat

I was pleased that I reached you to discuss our potential request to install a monitoring well on the Synergy property and your willingness to participate.

- The Legion property is in Georgia's Voluntary Remediation Program due to historical contamination released before our operation began.
- There is no evidence to indicate the Synergy property has been affected.
- Legion is in the process of demonstrating to EPD that the Legion property is not a risk to the public so it can be removed from regulatory oversight.
- As part of that demonstration, EPD may want Legion to install a monitoring well on the Synergy property as a conservative measure.
- Legion is going to meet with EPD in October and would like to represent Synergy's willingness to cooperate, if needed.

You indicated that you would forward our request to another individual in Georgia to discuss our potential request for:

321 Mills Road

Waynesboro, Ga. 30830

I would appreciate a copy of your contact to the Synergy Georgia contact for our future communications.

I can be reached through the information shown in the attachment to discuss the details with the appropriate Synergy person, and be advised of Synergy's decision.

Thanks for your help – I look forward to our next discussions.

Chuck Brown cbrown@legionindustries.com

<CB Information 092515.doc>

### **Chuck Brown**

From: William B Creekmore [wcreekmore@synergywms.com]

Sent: Friday, October 02, 2015 9:00 AM cbrown@legionindustries.com

Cc: Matt Piell Subject: Waynesboro

### Charles,

Nice speaking to you today. As I said, after speaking to our attorney and lender, we will not be able to allow any monitoring wells on our property.

I hope all goes well for you in the future.

Thank you,

William Creekmore 770 318-5412

Sent from my iPhone

#### **Chuck Brown**

From: Matt Piell [mpiell@synergywms.com]
Sent: Friday, October 02, 2015 8:26 AM
To: <a href="mailto:cbrown@legionindustries.com">cbrown@legionindustries.com</a>

**Subject:** Re: Georgia's Voluntary Remediation Program 10/2/15

I sent your email to Bill last week and he was checking into whether we could help or not. He will be contacting you either today or early next week. His name is Bill Creekmore - wcreekmore@synergywms.com

Matt

Sent from my iPhone

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I would appreciate your advising Legion who the Synergy contact person is for our future communications re your property:

321 Mills Road Waynesboro, Ga. 30830

Thanks,

**Chuck Brown** 

#### cbrown@legionindustries.com

From: Chuck Brown [mailto:cbrown@legionindustries.com]

Sent: Friday, September 25, 2015 12:01 PM

To: (mpiell@synergywms.com)

Subject: Georgia's Voluntary Remediation Program

#### Mat,

I was pleased that I reached you to discuss our potential request to install a monitoring well on the Synergy property and your willingness to participate.

- The Legion property is in Georgia's Voluntary Remediation Program due to historical contamination released before our operation began.
- There is no evidence to indicate the Synergy property has been affected.
- Legion is in the process of demonstrating to EPD that the Legion property is not a risk to the public so it can be removed from regulatory oversight.
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You indicated that you would forward our request to another individual in Georgia to discuss our potential request for:

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Waynesboro, Ga. 30830

I would appreciate a copy of your contact to the Synergy Georgia contact for our future communications.

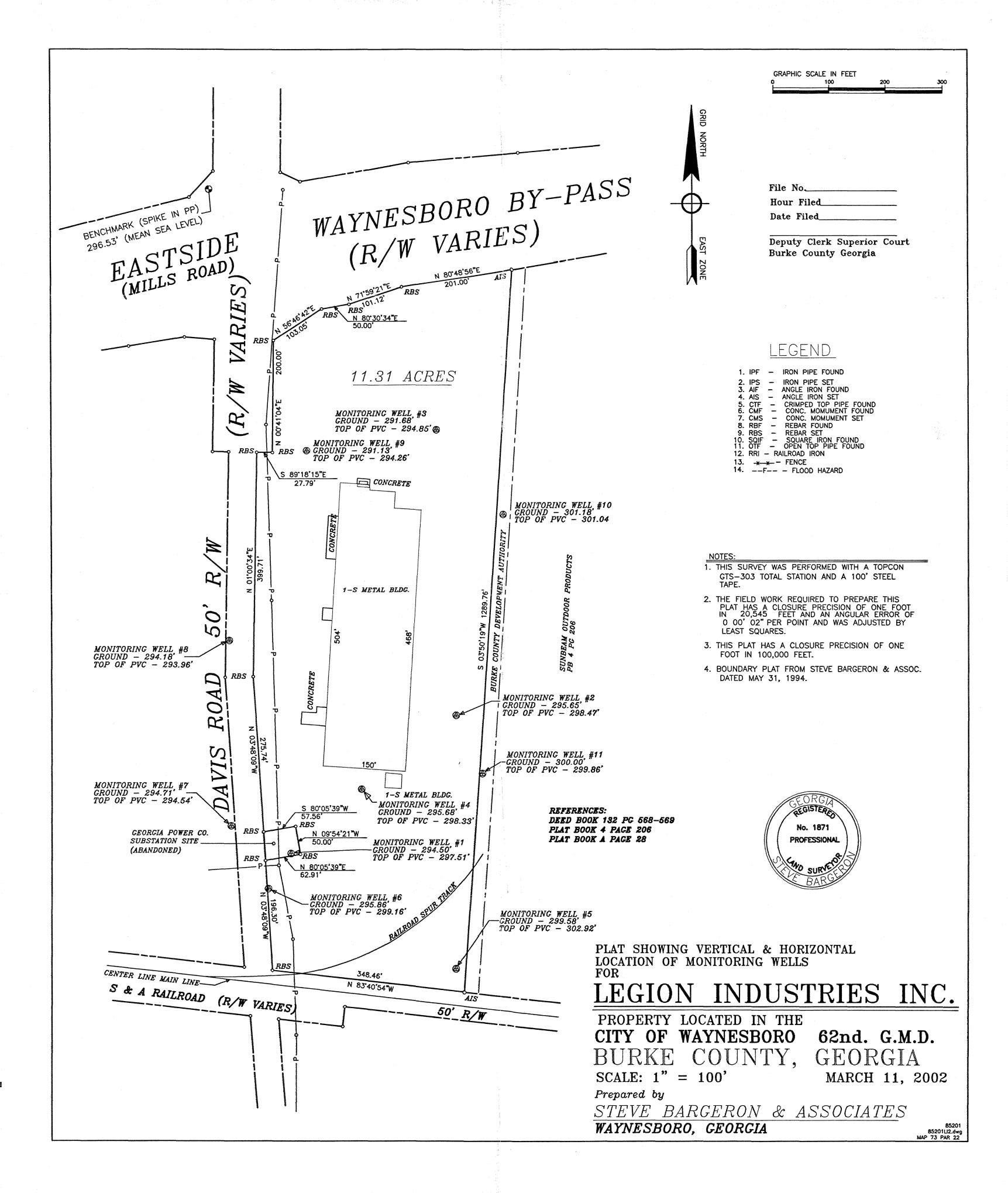
I can be reached through the information shown in the attachment to discuss the details with the appropriate Synergy person, and be advised of Synergy's decision.

Thanks for your help – I look forward to our next discussions.

Chuck Brown cbrown@legionindustries.com

<CB Information 092515.doc>

APPENDIX I SITE SURVEY



APPENDIX J
WASTE MANIFESTS

NON-HAZARDOUS WASTE MANIFEST	Generator ID Number	2. Page 1 d	of 3. Emergency Response	Phone Phone	4. Waste T	racking Numb	per	-
5. Generator's Name and Mail Generator's Phone:	Legion indu 370 Mills Roc Waynesboro	atries, Inc. 1 ad a, GA 30830	Generator's Sile Address	s (il diffèrent th	an mailing addi	ress) 4.71	8	,
6. Transporter 1 Company Na		i .			U.S. EPA ID	Number		
7. Transporter 2 Company Na	alnınd	0			U.S. EPA ID	Number		
Designated Facility Name a	4330 Dejon Blythe, GA		condill		U.S. EPA ID	Number		
Facility's Phone:	706 592 320	DC /	10. Conta	ainers	11, Total	12. Unit		
9. Waste Shipping Nan	ne and Description	2-	No.	Туре	Quantity	Wt./Vol.		
	gulated Material. vai #13-0530	Solid (Soli)	001	DT	Est.	(acres		
3.								
4, 13. Special Handling Instruction	on and Additional Internation							
14. GENERATOR'S/OFFERO		dition for transport according to app	ilicable international and nat Signature	tional governm			Month	packaged,  Day Year  ZO 13
15. International Shipments  Transporter Signature (for exp	Import to U.S.	Export from		ntry/exit:	-			
16. Transporter Acknowledgm								
Transporter 1 Printed/Typed N	MACTETEWA	41 )	Signature Signature	1 /10	activity.	ush.	Month Month	Day Year Day Year
17. Discrepancy 17a. Discrepancy Indication Sp	pace Quantity	Туре	Residue		Partial R	ejection	□Fu	Il Rejection
17b. Alternate Facility (or Gen- Facility's Phone:	erator)		Manifest Reference	ivumber:	U.S. EPA ID	) Number		
17c. Signature of Alternate Fac	cility (or Generator)				1	V	Month	Day Year
	or Operator: Certification of receipt of ma							rie 1
Printed/Typed Name		1	Signature				Month	Day Year

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number		2. Page 1 of 3	Emergency Response		4. Waste T	racking Numb	1.00
5. Generalor's Name and Mai	GADO54:  ling Address Legion Inc.  370 Mils R	Justiles, Inc.	G	404-431 enerator's Site Address	(if different the	an mailing adde	1251 ess)	9
Generator's Phone:	Waynesbo	oro, GA 30830	-1					
. Transporter 1 Company Na	70 554 dz ame	111				U.S. EPA ID	Number	
Davis He Transporter 2 Company Na	<u>auling</u>					U.S. EPA ID	Number	
, rusiquita 2 surpes, ru								
Designated Facility Name a	1.11277.23171			dil		U.S. EPA ID	Number	
9. Waste Shipping Nar		2000		10. Conta	2077	11. Total	12. Unit	
		1 20 6 1 125 18		No.	Туре	Quantity	Wt./Vol.	
	egulated Materia val #13-0530	IF 2011G (2011)		001	DT	Est. 18	entre és	
2.								
					1.0			
3.	Y							
	Υ.							
4.		15						
a control de la control	ions and Additional Information							
marked and labeled/placa	OR'S CERTIFICATION: I hereby declar arded, and are in all respects in proper Typed Name Suscin Riggs on	condition for transport accord	ding to applicab	e international and nati	scribed above I onal governme	oy the proper s intal regulation	hipping name, s.	and are classified, packaged  Month Day  1 6 1 201
5. International Shipments	Import to U.S.		Export from U.S	. Port of er	try/exit:			60 60
ransporter Signature (for ex					ing U.S.:			
<ol><li>Transporter Acknowledgn</li></ol>	detection i todorpi of materials			Date leav	1 0			
ransporter 1 Printed/Typed 1	Name Killy Carety	<i>e</i>	Signa	ture Red	1	ur		XI6 161
ransporter 1 Printed/Typed 1	Name Killy Carety	<i>(</i>		ture Red	1	ur		XI6 161
ransporter 1 Printed/Typed I 3 F 9 ransporter 2 Printed/Typed I 7. Discrepancy	Name Name	7	X	ture Red	1	ur		XI6 161
ransporter 1 Printed/Typed I 3 F 9 ransporter 2 Printed/Typed I 7. Discrepancy	Name Name	Туре	X	lure /c.//	1 Pm	CLY	ajection	Month Day
ransporter 1 Printed/Typed I 3 F Printed/Typed I 7. Discrepancy 7. Discrepancy Indication S	Name  Space Quantity	Туре	X	ture KM	1 Pm			Month Day
7. Discrepancy 7. Discrepancy 7a. Discrepancy Indication S 7b. Alternate Facility (or Ger	Name  Space Quantity  nerator)	Туре	X	lure /c.//	1 Pm	Partial Re		Month Day
ransporter 1 Printed/Typed I  7. Discrepancy 7a. Discrepancy Indication S 7b. Alternate Facility (or Ger	Name  Space Quantity  nerator)	Туре	X	lure /c.//	1 Pm	Partial Re		Month Day
ransporter 1 Printed/Typed I  7. Discrepancy 7a. Discrepancy Indication S 7b. Alternate Facility (or Ger	Name  Space Quantity  nerator)	Туре	X	lure /c.//	1 Pm	Partial Re		Month Day
ransporter 1 Printed/Typed I  7. Discrepancy  7a. Discrepancy Indication S  7b. Alternate Facility (or Ger  facility's Phone:  7c. Signature of Alternate Fa	Name  Space Quantity  nerator)		Signa	ture  Residue  Manifest Reference t	1 Pm	Partial Re		Month Day
ransporter 1 Printed/Typed I  7 Printed/Typed I  7 Discrepancy  7a Discrepancy Indication S  7b Alternate Facility (or Ger  facility's Phone:  7c. Signature of Alternate Fa	Name  Space Quantity  nerator)  acility (or Generator)		Signa	ture  Residue  Manifest Reference t	1 Pm	Partial Re		Month Day  Full Rejection

NON-HAZARDOUS WASTE MANIFEST		005422		2. Page 1 c	1	gency Response P 404-431 -	2951	4. Waste T	125	mber 20
5. Generator's Name and Mail		egion Indusin 70 Mills Road Vaynesbara, 1 06-554-4411		0	Generat	or's Site Address (i	f different tha	an mailing addr	ess)	
5. Transporter 1 Company Na Days H	me aulina							U,S. EPA ID	Number	
. Transporter 2 Company Na								U.S. EPA ID	Number	
Designated Facility Name a	and one heards	Augusta Dec 4330 Decins 8 Blythe, GA 30 706-592-3200	Midge Ro 1805		الله في	1		U.S. EPA ID	Number	
Facility's Phone:	Table Action to the	514-7000				10. Contain	ers	11. Total	12. Unit	
9. Waste Shipping Nam		t took online to the	all of to a	10		No.	Туре	Quantity	Wt./Vol.	
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Generator's Name and Maili	ing Address Legion Inc 370 Mils R	dustries, Inc. toad oro, C/A 30830	G	enerator's Site Address		an mailing addre	ess)		
enerator's Phone: Transporter 1 Company Nan		411	-			U.S. EPA ID	Number		
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		3205		10. Conta	ainers	11. Total	12. Unit		
9. Waste Shipping Nam	e and Description			No.	Туре	Quantity	Wt./Vol.		
Approv	gulated Materic val #13-0530	ıl, Solid (Soli)		001	DT	Est. 18	7		
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	5 A D 0 5 4 2 2 3 9 8 7		31-2951		racking Num	
i, Generator's Name and Mailing Addres	s Legion Industries, Inc. 370 Mills Road 940ynesboro, GA 30830 706-554-4411	Generator's Site Add	ress (if different th	an mailing addr	ess)	
. Transporter 1 Company Name				U.S. EPA ID	Number	
Davis Hauling	2					
. Transporter 2 Company Name				U.S. EPA ID	Number	
i. Designated Facility Name and Site Add	4330 Deans Rildge Road Blythe, GA 30805			U.S. EPA ID	Number	
acility's Phone:	706-592-3000	10. C	ontainers	11, Total	12. Unit	
9. Waste Shipping Name and Des	scription	No.	Туре	Quantity	Wt./Vol.	
Non-Regula Approval#	ited Material, Solid (Soli) 13-0530	00	DT	Es1.	1	*
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A.     Special Handling Instructions and Advisory						
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A	NON-HAZARDOUS 1. Generato		1	3. Emergency Response		- Company	racking Num	nber	
	5. Generator's Name and Mailing Address	A D 0 5 4 2 2 3 9 8 Legion Industries. Inc	7 1	AQA-431 - Generator's Site Address	(if different the	an mailing add	ress)	75	
1		370 Mills Road	,						
	Generalor's Phone:	Waynashora, GA 308	330						
1	6. Transporter 1 Company Name	706 554 4411				U.S. EPA ID	Number		
	7. Transporter 2 Company Name					U.S. EPA ID	Number		
1									
	Designated Facility Name and Site Addres     Facility's Phone:	S Augusta Deans Brid 4330 Deans Bridge I Blythe, GA 30805 706-592-3200		ndfill		U.S. EPA ID	Number		
	Waste Shipping Name and Descrip			10. Contain		11. Total	12. Unit		
I	1.0000000000000000000000000000000000000		- UN	No.	Туре	Quantity	Wt./Vol.		
GENERATOR	Approval #13	ed Material, Solid (S -0530	OII)	001	DT	B1. 18	-		
- GEN	2.	_		1,14					
	3.								
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	13. Special Handling Instructions and Additio	and Information							
	14. GENERATOR'S/OFFEROR'S CERTIFIC marked and labeled/placarded, and are in	ATION: I hereby declare that the contents of all respects in proper condition for transpo	rt according to applicat	ole international and natio	cribed above to	by the propers	hipping name s.		
*	Generator's/Offeror's Printed/Typed Name	son fliggs on behalf of Le	glon Industrie	\$ - 1.	15,5	- 3		Month	Day Year
INT	Transporter Signature (for exports only):	port to U.S.	Export from U.	S. Port of enti- Date leaving		y			
RTEF	Transporter 1 Printed/Typed Name	of Materials	Signa	ature	11			Month	Day Year
TRANSPORTER	×384	100	X	1/22/4	19	lix		1	10/19
<b>TRAN</b>	Transporter 2 Printed/Typed Name		Signa	ature				Month	Day Year
A	17. Discrepancy								
Ī	17a. Discrepancy Indication Space	Quantity Typ	е	Residue		Partial Re	ejection	□ F	ull Rejection
7	17b. Alternate Facility (or Generator)			Manifest Reference N	umber:	U.S. EPA ID	Number		
ACILI	Facility's Phone:					1			
DESIGNATED FACILITY	17c. Signature of Alternate Facility (or General	ator)						Month	Day Year
- DESIG									
	18. Designated Facility Owner or Operator: C	ertification of receipt of materials covered b	y the manifest except a	as noted in Item 17a					
	Printed/Typed Name		Signa	iture				Month	Day Year
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NON-HAZARDOUS	Generator ID Number	6 A E 12 3 14 1	2. Page 1 of 3.	Emergency Response F		4. Waste 7	racking Numb	er
WASTE MANIFEST	GAD054			404-431-	2951	to mellion and	1252	4
5. Generator's Name and Mailing  Generator's Phone:	370 Mils R	oro, GA 30830		nerator's Site Address (	il different the	an mailing addi	ress)	4
3. Transporter 1 Company Nan	ne	4.1				U.S. EPA ID	Number	
Dows Ho Transporter 2 Company Nan						U.S. EPA ID	Number	
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<ol> <li>Designated Facility Name are properties.</li> <li>Facility's Phone:</li> </ol>	4330 Dec	Deans Bridge ans Bridge Roo 3A 30805		Sil		U.S. EPA ID	Number	
	1 5 5 14 7 10	3.7.8.5		10. Contain	ners	11. Total	12. Unit	
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	gulated Materia al #13-0530	al, Solid (Soli)	)	001	DT	Est.	76	
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3. Special Handling Instruction				4.7				
	R'S CERTIFICATION: I hereby decla ded, and are in all respects in proper yped Name	condition for transport acc	cording to applicable	international and natio	nal governme	ntal regulation		Month Day
5. International Shipments		behalf of Legic	7			K. Apr.		6 20
ransporter Signature (for expo	Import to U.S.		Export from U.S.	Port of entr Date leavin				
6. Transporter Acknowledgme			6:	A	-			
ransporter 1 Printed/Typed No.	en Hal	165	Signatu	To Cen	1/2	Cui	14	Month Day
ransporter 2 Printed/Typed Na	ame		Signatu	ire		1		Month Day
						and .		
Discrepancy     Discrepancy Indication Sp	ace Quantity	Туре		Residue		Partial Re	ejection	Full Rejection
7h Alternate Facility /or Cana	uratar)			Manifest Reference Nu	ımber:	He EBAIR	Mission	
7b. Alternate Facility (or Gene	(cao)					U.S. EPA ID	Number	
acility's Phone:	life to Comments							
7c. Signature of Alternate Fac	only (or Generator)	19.19.19.19			Е			Month Day
3. Designated Facility Owner	or Operator: Certification of receipt o	f materials covered by the	manifest except as	noted in Item 17a	-1			
rinted/Typed Name			Signatu					Month Day
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	GAD0542		Emergency Response		4. Waste 7	racking Numl	
. Generator's Name and Mail	ing Address Legion Incl. 370 Mills Ro	istries, Inc.	enerator's Site Address	(if different the	an mailing add		
		o, GA 30830					
enerator's Phone: . Transporter 1 Company Na	206 554 441			_	U.S. EPA ID	Number	
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Transporter 2 Company Na	me e				U.S. EPA ID	Number	
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. Designated Facility Name a acility's Phone:	Progosta 6		ociil		U.S. EPA ID	Number	
The court of		100	10. Conta	iners	11. Total	12. Unit	
9. Waste Shipping Nan	ne and Description		No.	Туре	Quantity	Wt./Vol.	
	egulated Material, vat #13-0530	. Solid (Soli)	001	DT	Est.	1	
2.			201		10		
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NON-HAZARDOUS WASTE MANIFEST	1, Generator ID Number GAD0542		1 of 3. Emergency Response		4. Waste T	racking Numb		
<ol> <li>Generator's Name and Magnetic Section 1.</li> <li>Generator's Phone:</li> </ol>	Legion Ind 370 Mils Ro Waynasbo 706-554-44	ustries, Inc. oad ro, GA 30830	Generator's Site Address			ress)	1.7.	
6. Transporter 1 Company Name						U.S. EPA ID Number		
Days H 7. Transporter 2 Company N	auling				U.S. EPA ID	Number		
r. Hampono E company in	MITTE				1			
Designated Facility Name     Facility's Phone:	1 12 April M.		Lerchii		U.S. EPA ID	Number		
Waste Shipping Name and Description			10. Conta	10. Containers		12. Unit		
TOTAL TOTAL STORE OF THE STORE			No.	Туре	Quantity	Wt./Vol.		
Non-Regulated Material, Solid (Soli) Approval #13-0530			001	DY	Est.	1		
2.								
3.								
4.								
14. GENERATOR'S/OFFER marked and labeled/plac Generator's/Offeror's Printed	OR'S CERTIFICATION: I hereby declare arded, and are in all respects in proper of typed Name	that the contents of this consignmentation for transport according to	nent are fully and accurately de- applicable international and nat Signature	scribed above tional governme	by the proper s ental regulation	hipping name, s.	and are classified, packaged,  Month Day Yea	
	Susan Mggs on I	sehalf of Legion Indu	siries (	1900	1000	Marine in	6 20 13	
<ol> <li>International Shipments</li> <li>Transporter Signature (for ex</li> <li>Transporter Acknowledge)</li> </ol>		Export	rom U.S. Port of er Date leav	ntry/exit:	7.1-			
Transporter 1 Printed/Typed  Transporter 2 Printed/Typed	Name Hay	65	Signature Signature	-/	tay	) [	Month Day Year	
17. Discrepancy								
17a. Discrepancy Indication Space Quantity Type			Residue				Full Rejection	
17b. Alternate Facility (or Generator)			Manifest Reference	U.S. EPA ID Number				
Facility's Phone:								
17c. Signature of Alternate F	acility (or Generator)						14 H D 11	
5 - 7 - V							Month Day Yea	
18. Designated Facility Owner	er or Operator: Certification of receipt of	malerials covered by the manifest	except as noted in Hem 17a				Month Day Yea	
18. Designated Facility Own	er or Operator: Certification of receipt of	materials covered by the manifest	except as noted in Item 17a Signature				Month Day Yea	

*	1.0		In Board of La	Farmer Process	Disassa	Trumper 7	For alder Mines	
NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number		100000000000000000000000000000000000000	B. Emergency Response		100000000000000000000000000000000000000	Fracking Numb	
5. Generator's Name and M	GAD05		1 1	404-431 - Generator's Site Address	(if different the	an mailing add	1250 ress)	7
Generator's Phone: 6. Transporter 1 Company I	Legion II 370 Mils Waynesi 706-654	boro, GA 20830				U.S. EPA ID		
Davis F	laulina							
. Transporter 2 Company I	lame					U.S. EPA ID	Number 1	
I. Designated Facility Name	and Site Address	4.74		10.00		U.S. EPA ID	Number	
Facility's Phone:	4330 D	a Deans Bridge Bans Bridge Roo GA 30805 1-3200		KINA		1	/ Number	
9. Waste Shipping N	ame and Description			10. Contai		11. Total	12. Unit	
				No.	Туре	Quantity	Wt./Vol.	
	egulated Mater val #13-0530	iai, solia (soli	1	001	DT	Est.	ī	
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marked and labeled/pla	NOR'S CERTIFICATION: I hereby de parded, and are in all respects in prop d/Typed Namegue.cm Figgs:	per condition for transport ac	ccording to applicat	ole international and natio	cribed above to	by the proper sental regulation	shipping name, as.	Month Day
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<ol><li>International Shipments</li></ol>	Import to U.S.		Export from U.S	S. Port of en	ry/exit:	1	1	
ransporter Signature (for e	xports only): ment of Receipt of Materials			Date leavi	ng U.S.:	1	1	
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X JATTY	Houghton		1×	any	Han	1/6		1610
ransporter 2 Printed/Typer	Name		Signa	ature /	1			Month Day
7. Discrepancy	8							
7a. Discrepancy Indication	Space					Partial R	alaction	
	Quantity	Туре		Manifest Reference N	lumber	L Fallai N	iojeciion	Full Rejection
7b. Alternate Facility (or G	L_I Quantity	Ш Туре		Manifest Reference N	lumber:	U.S. EPA II		Full Rejection
	L_I Quantity	Туре			lumber:			L.J Full Rejection
Facility's Phone:	enerator)	Туре			lumber:			Full Rejection  Month Day
acility's Phone:	enerator)	Туре			lumber:			
Facility's Phone: 17c. Signature of Alternate	enerator) Facility (or Generator)		a manifest growth	Manifest Reference N	lumber:			
17b. Alternate Facility (or G Facility's Phone: 17c. Signature of Alternate 18. Designated Facility Own Printed/Typed Name	enerator)		e manifest except a Signa	Manifest Reference N	lumber:			

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	4223987		3. Emergency Response		4. Waste T	racking Nun	
5. Generator's Name and Mail	ing Address Legion 370 Mil Wayna	Industries, Inc. Is Road Isboro, GA 3082	(	Generator's Site Address		an mailing addr		and 120
Generator's Phone: . Transporter 1 Company Nar	706-55	1-4411				U.S. EPA ID	Number	
Davis Ho	auling					1		
. Transporter 2 Company Na	me	4				U.S. EPA ID	Number	
Designated Facility Name a     Facility's Phone:	4330 I Blythe	ata Deans Bridg Deans Bridge Ro D, GA 30806 72-3000		reliii		U.S. EPA ID	Number	
		7,2-3,8(1)		10. Conta	ainers	11. Total	12. Unit	
9. Waste Shipping Nam	ne and Description			No.	Туре	Quantity	Wt./Vol.	
	egulated Mate val ≇13-0530	erial, Solid (So	11)	001	DT	Est. 18	- Bases	
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	ens and Additional Information	0392						
A& D Errok  4. GENERATOR'S/OFFERO marked and labeled/placar	renation fol Job #13  R'S CERTIFICATION: I hereby ded, and are in all respects in property of the second se	declare that the contents of troper condition for transport	according to applicat Signa	fully and accurately des ole international and nati ature	ional governme	ental regulations	nipping name	e, and are classified, package  Month Day
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A& D Error  4. GENERATOR'S/OFFERO marked and labeled/placar enerator's/Offeror's Printed/T	R'S CERTIFICATION: I hereby ded, and are in all respects in property Name  Suscan Riggs	declare that the contents of troper condition for transport	according to applicat Signa	fully and accurately des ole international and nati ature	scribed above lional governme	ental regulations	nipping name	Month Day
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A.C. Errold  4. GENERATOR'S/OFFERO marked and labeled/placar Senerator's/Offeror's Printed/T  5. International Shipments transporter Signature (for exp 6. Transporter Acknowledgmir fransporter 1 Printed/Typed N  7. Discrepancy  7a. Discrepancy Indication Sp  7b. Alternate Facility (or Generation)	R'S CERTIFICATION: I hereby ded, and are in all respects in property in the second of	declare that the contents of troper condition for transport on behalf of Lag	according to applicat Signa Signa Flort Inclustrie Export from U.s	fully and accurately deside international and nativature  S. Port of er Date leavesture  Residue	scribed above lonal governments.	ental regulations	7	Month Day  Month Day  Month Day  Full Rejecti
A.E. D. Errodo  4. GENERATOR'S/OFFERO marked and labeled/placar senerator's/Offeror's Printed/Ti  5. International Shipments ransporter Signature (for exp 6. Transporter Acknowledgmir ransporter 1 Printed/Typed N  7. Discrepancy 7a. Discrepancy Indication Sp  7b. Alternate Facility (or Generality's Phone:	R'S CERTIFICATION: I hereby ded, and are in all respects in property in the second of	declare that the contents of troper condition for transport on behalf of Lag	according to applicat Signa Signa Flort Inclustrie Export from U.s	fully and accurately deside international and nativature  S. Port of er Date leavesture  Residue	scribed above lonal governments.	ental regulations	7	Month Day  Month Day  Month Day
A.C. D. Errote  4. GENERATOR'S/OFFERO marked and labeled/placar senerator's/Offeror's Printed/To senerator's/Offeror's Printed/To senerator's/Offeror's Printed/To exp 6. Transporter Signature (for exp 6. Transporter Acknowledgmiransporter 1 Printed/Typed November 1 Printed/Typed November 2 Printed/Typed November 2 Printed/Typed November 2 Printed/Typed November 2 Printed/Typed November 2 Printed/Typed November 2 Printed/Typed November 2 Printed/Typed November 2 Printed/Typed November 2 Printed/Typed November 3 Discrepancy Indication Space 2 Printed/Typed November 3 Discrepancy Indication Space 3 Discrepancy Indication Indic	R'S CERTIFICATION: I hereby ded, and are in all respects in property in the second of	declare that the contents of troper condition for transport on behalf of Lag	according to applicat Signa Signa Flort Inclustrie Export from U.s	fully and accurately deside international and nativature  S. Port of er Date leavesture  Residue	scribed above lonal governments.	ental regulations	7	Month Day  Month Day  Month Day  Full Rejecti
A.C. Errote  4. GENERATOR'S/OFFERO marked and labeled/placar generator's/Offeror's Printed/T  5. International Shipments transporter Signature (for exp 6. Transporter Acknowledgmeransporter 1 Printed/Typed N  7. Discrepancy  7a. Discrepancy Indication Signature Facility's Phone:  7c. Signature of Alternate Facility (or Generation Signature of Alternate Facility Facility)	R'S CERTIFICATION: I hereby ded, and are in all respects in property in the second of	declare that the contents of toper condition for transport on behalf of Leg	according to applicate Signar Signar Inch Sitte Signar Sig	fully and accurately desple international and natisture  S. Port of er Date leavesture  Manifest Reference I	scribed above lonal governments.	ental regulations	7	Month Day  Month Day  Month Day  Full Rejecti

4	HONTALANDOOS	3. Emergency Response Pt		4. Waste T	racking Numb	
l	5. Generator's Name and Mailing Address Legion Inclustries. Inc.	AOA-421-1 Senerator's Site Address (ii	different tha	ın mailing addr	1252 ess)	9
,	370 Mils Road Waynesboro, GA 30830 Generator's Phone: 706 564 4411					
	6. Transporter 1 Company Name			U.S. EPA ID	Number	
	7. Transporter 2 Company Name			U.S. EPA ID	Number	
П						
	8. Designated Facility Name and Site Address  Augusta Decris Bridge Road Lar  4330 Decris Bridge Road  Blythe, GA 30805  Facility's Phone:  706-592-3200	ncifili		U.S. EPA ID	Number	
li	9. Waste Shipping Name and Description	10. Containe	ers	11. Total	12. Unit	
		No.	Туре	Quantity	Wt./Vol.	
GENERALOR	Non-Regulated Material, Solid (Soli) Approval #13-0530	001	DY	Est. 18	Ţ	
-	2.					
	3. 4					
	4.					
	·					
	14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are marked and labeled/placarded, and are in all respects in proper condition for transport according to applicat Generator's/Offeror's Printed/Typed Name Suscen Riggs on behalf of Legion inclusions.  Signa	ole international and national	bed above b al governme	y the proper si	nipping name, s.	Month Day Year
1	15, International Shipments Import to U.S. Export from U.S.	The section of the se		7		6 70 13
INIT	Transporter Signature (for exports only):	S. Port of entry.  Date leaving				0. 7 %
5	16. Transporter Acknowledgment of Receipt of Materials  Transporter 1 Printed/Typed Name Signa	Milita			-0	
5	XThomas MACIETEUSHI		0.00		4	Month Day Year
	LINGITA'S THECHT I'M SILL	Home 1	16.0	416	Ta	Month Day Year
- LINKING	Transporter 2 Printed/Typed Name Signa	Alicana I alure	Vie.c	uj.c	Tu	111/19012
o iosioni.			( in t	Partial Re		416 120 13
	Transporter 2 Printed/Typed Name  17. Discrepancy  17a. Discrepancy Indication Space Quantity Type	ature		Partial Re	ejection	Y   6   20   13 Month Day Year
	Transporter 2 Printed/Typed Name Signa 17. Discrepancy	Residue		7	ejection	Y   6   20   13 Month Day Year
GIVALED FACILITY I HANSPORTER	Transporter 2 Printed/Typed Name  17. Discrepancy  17a. Discrepancy Indication Space  Quantity  Type  17b. Alternate Facility (or Generator)	Residue		Partial Re	ejection	Y   6   20   /3 Month Day Year
	Transporter 2 Printed/Typed Name  17. Discrepancy  17a. Discrepancy Indication Space Quantity  17b. Alternate Facility (or Generator)  Facility's Phone:	Residue		Partial Re	ejection	Month Day Year
DESIGNALED PACIENT	Transporter 2 Printed/Typed Name  17. Discrepancy  17a. Discrepancy Indication Space Quantity  17b. Alternate Facility (or Generator)  Facility's Phone:	Residue  Manifest Reference Nur		Partial Re	ejection	Month Day Year
DESIGNALED FACILITY	Transporter 2 Printed/Typed Name  17. Discrepancy  17a. Discrepancy Indication Space Quantity  Type  17b. Alternate Facility (or Generator)  Facility's Phone:  17c. Signature of Alternate Facility (or Generator)	Residue  Manifest Reference Nur		Partial Re	ejection	Month Day Year

1	NON-HAZARDOUS VASTE MANIFEST G A D 0 5 4 2 2 3 9 8 7  5. Generator's Name and Mailing Address Legion Inclustries. Inc.	1	rgency Response P 404-431- or's Site Address (	2951		racking Number	
	Generator's Phone: 706-554-4411 6. Transporter 1 Company Name  Davis Haulina Text #217				U.S. EPA ID	Number	
П	7. Transporter 2 Company Name				U.S. EPA ID	Number	er.
	8. Designated Facility Name and Site Address  Augusta Deans Bridge Roc Elythe, GA 30805  Facility's Phone: 704-592-3200				U.S. EPA ID	Number	
П	Waste Shipping Name and Description		10. Contain	ers	11. Total	12, Unft	
1			No.	Туре	Quantity	Wt./Vol.	
GENERATOR	Non-Regulated Material, Soild (Soll) Approval #13-0530		001	DT	Est. 18	1	
- GEN	2.						
	3.						
	4.						
	A&D Environmental Job #130392  14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this marked and labeled/placarded, and are in all respects in proper condition for transport accidental contents of the contents	ording to applicable inte Signature	mational and nation	nal governme	ntal regulations	š	Month Day Year
NT.L	15. International Shipments Import to U.S.  Transporter Signature (for exports only):	Export from U.S.	Port of entry Date leaving	//exit:	( 4 )	1	6 20 13
TRANSPORTER	16. Transporter Acknowledgment of Receipt of Materials  Transporter 1 Printed/Typed Name  Transporter 2 Printed/Typed Name	Signature Signature	ENH	The	y	12	Month Day Year  Month Day Year  Month Day Year
TRA					6		
1	17a. Discrepancy  17a. Discrepancy Indication Space  Quantity  Type		Residue	mbor	Partial Re	jection	Full Rejection
CILITY	17b. Alternate Facility (or Generator)	ividi	MUST PRESENCE NO	mister.	U.S. EPA ID	Number	
DESIGNATED FACILITY	Facility's Phone:  17c. Signature of Alternate Facility (or Generator)				1	·.	Month Day Year
DE L		8				11.	
1	18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the	manifest except as note	d in Item 17a				
1	Printed/Typed Name	Signature					Month Day Year

WASTE MANIFEST	Generator ID Number	2. Page	a 1 of 3, Emergend			4. Waste T	racking Num		
Generator's Name and Mail	GAD0542	23987	1 40	Site Address	Of different the	an mailing addr	125	11	
	370 Mills Ro		Generators	Site Address	(ii dinereni ine	an mailing addr	555)		
enerator's Phone: Transporter 1 Company Na	20%-55id-441					U.S. EPA ID	Number		
Daws Ho	aulina								
Transporter 2 Company Na	me		•	3		U.S. EPA ID	Number		
. Designated Facility Name a	4330 Dean Blythe, GA		d Lonoffi		-	U.S. EPA ID	Number		
acility's Phone:	706-592-37	(1)		10. Contai	ners	11. Total	12. Unit		
9. Waste Shipping Nan	ne and Description			No.	Туре	Quantity	Wt./Vol.		
	gulated Material, /al #13-0530	Solid (Soli)		001	DT	Est. 18	, and a second		
2.						9			
3.									
4.									
		that the contents of this consigning		ccurately desc	cribed above b	by the proper stantal regulations	hipping name, s.	and are classified	nackano
marked and labeled/placar	ded, and are in all respects in proper cor	ndition for transport according to	applicable internation	onal and natio				Month	
marked and labeled/placar ienerator's/Offeror's Printed/I	R'S CERTIFICATION: I hereby declare to ded, and are in all respects in proper con yped Name Guscin Riggs on b	ndition for transport according to	applicable internation	onal and natio		٠٠٠		Month	Day 20
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NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	4223987	2. Page 1 of	3. Emergency Response		4. Waste T	racking Numb	
5. Generator's Name and Maili Generator's Phone:	ing Address Leagton 370 Milk	Industries, Inc. Road Boro, GA 30830		Generator's Site Address	(if different that	in mailing add	ress)	
						U.S. EPA ID	Number	
DOMS Ho  Transporter 2 Company Nar	auling /160ch	# 2/8				U.S. EPA ID	Number	
. Hansportal 2 Company Na						0.0, 0.7, 10	Tunio	
Designated Facility Name as     Facility's Phone:	4330 C Blythe	ta Deans Bridge leans Bridge Roo GA 30805 2-3700		ncilli		U.S. EPA ID	Number	
9. Waste Shipping Nam		4-3-0-23		10. Conta	iners	11. Total	12. Unit	
	e and Description	4		No.	Type	Quantity	Wt./Vol.	
	gulated Mate val #13-0530	riai, Solid (Soli	)	001	DT	Est. 18	- 7	
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	ons and Additional Information	392						
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NON-HAZARDOUS	1. Generator ID Number		1 of 3. Emergency Response		4. Waste T	racking Number	
WASTE MANIFEST  5. Generator's Name and Mail	GAD0542		Generator's Site Address		an mailing adds	1253	3
Generator's Phone:	Legion Inclus 370 Mills Roc Waynesberg 706-654-441	rd ), GA 30830	Contract of the Audies	s (ii uiiiciciii iii	ar maining abus	633)	+
6. Transporter 1 Company Na	guling 7/43 83				U.S. EPA ID	Number	
7. Transporter 2 Company Na	me				U.S. EPA ID	Number	
Designated Facility Name a     Facility's Phone:	Hogista De		Landfill		U.S. EPA ID	Number	
	1/2/1-39/1	H. J.	10. Cont	ainers	11. Total	12. Unit	
9. Waste Shipping Nan	ne and Description		No.	Туре	Quantity	Wt./Vol.	
	gulated Material, val #13-0530	Solid (Soil)	001	DT	Est.	i	
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A&.D Ern/di	ns and Additional Information  Control Iob #130392  R'S CERTIFICATION: I hereby declare the ded, and are in all respects in proper concentrations.	at the contents of this consignm	ent are fully and accurately de	escribed above	by the proper's	hipping name, a	ınd are classified, package
	yped Name suscin Riggs on the			i i		i i	Month Day
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and the state of t			- gradie e				l l l
7. Discrepancy							
7a. Discrepancy Indication Sp	Dace Quantity	Туре	Residue  Manifest Reference	Number	Partial Re	ejection	Full Rejection
7b. Alternate Facility (or Gene	eralor)		THE POST OF THE PO	, amost	U.S. EPA ID	Number	-
acility's Phone:	Nity for Generators						Month Dev
7c. Signature of Alternate Far	only (or Generator)						Month Day
8 Declarated Facility Owner							
b. Designated I active Owner	or Operator: Certification of receipt of mat	erials covered by the manifest e	xcept as noted in Item 17a				
Printed/Typed Name	or Operator: Certification of receipt of mat	erials covered by the manifest e	except as noted in Item 17a Signature				Month Day

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number GAD054	and the first control of the first control of the first terms of the f	Page 1 of 3. En	ergency Response		4. Waste 1	Fracking Numb		
5. Generator's Name and Mailii Generator's Phone;	ng Address Legion Inc 370 Mills R	dustries, Inc. oad oro, GA 30830	Gene	ator's Site Address		an mailing add		7	
6. Transporter 1 Company Nan	ne					U.S. EPA ID	Number		
COUS HC	auling ne				9	U.S. EPA IC	Number		
3. Designated Facility Name ar	undirace	Deans Bridge Ro Ins Bridge Road A 30806	ad Landl	ill		U.S. EPA IC	) Number		
Facility's Phone:	706-592	3200		10. Contai	ners	11 Total	10.11-9		
9. Waste Shipping Nam	e and Description			No.	Туре	11. Total Quantity	12. Unit Wt./Vol.		
Approv	gulated Materic val #13-0530	il, Solid (Soli)		001	DT	Est. 18	T		
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5. International Shipments		behalf of Legion in		- 1153.1		- W		6	1 65
ransporter Signature (for expo	Import to U.S.	LLI Ex	port from U.S.	Port of ent Date leaving					
3. Transporter Acknowledgme	ent of Receipt of Materials			ja-mg	10	, e i			
ansporter 1 Printed/Typed Na ansporter 2 Printed/Typed Na 30	KKKy	Sires	Signature	Kily	1. 14	wer	Ė	×1617	Day Day
7. Discrepancy	4								
a. Discrepancy Indication Sp	Quantity	Туре	м	Residue	umber	Partial R	ejection	Full	l Rejection
b. Alternate Facility (or Gene	erator)			The second of		U.S. EPA I	Number		
acility's Phone:						1			
7c. Signature of Alternate Fac	cility (or Generator)		-					Month	Day
)						11.5			
	or Operator: Certification of receipt o	materials covered by the mani		ted in Item 17a					
rinted/Typed Name			Signature					Month	Day

Life to the same of the same of the same	Generator ID Number		1000	nergency Response		ALC: N. A. A. A. A.	racking Nur	nber	
WASTE MANIFEST  Generator's Name and Mail	GADOSAS		Gene	AOA-A'31 - rator's Site Address	OO51	n mailing add	125	35	
	370 Mils Ro Waynesbo	ro, GA 30830	I		pi direferi tito	ar moning door	555)		
enerator's Phone: Transporter 1 Company Na	me 706-554-44					U.S. EPA ID	Number		
Davis Ho	outing Track of	154							
Transporter 2 Company Na	ime					U.S. EPA ID	Number		
Designated Facility Name a			ad tand	SN .		U.S. EPA ID	Number		
9. Waste Shipping Nar		200		10. Contai	ners	11. Total	12. Unit		
				No.	Туре	Quantity	Wt./Vol.	19.7	
	egulated Materia val #13-0530	l, Solid (Soli)		001	DT	Est.	7	*	
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A 3 4 4 4 4 4	ons and Additional Information	t							
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As. D Error.  GENERATOR'S/OFFERO marked and labeled/placa enerator's/Offeror's Printed/	ronmental Job #1303%	e that the contents of this consi ondition for transport according to the transport according	g to applicable in Signature	iternational and natio	onal governme	y the proper s	hipping names.	Month	Day
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	1. Generator ID Number G A D 0 5 4 2	23987 2. Pag	e 1 of 3. Emergency	Response 4-431	Phone 2951	4. Waste T	racking Numbe	
<ol> <li>Generator's Name and Ma</li> <li>Generator's Phone:</li> </ol>	370 Mils Ro	od ro, GA 30830	Generator's S	ite Address	(if different tha	an mailing addr	ess)	
6. Transporter 1 Company N		L.V.				U.S. EPA ID	Number	
Davis H					-			
7. Transporter 2 Company N	ame					U.S. EPA ID	Number	
Designated Facility Name  Facility's Phone:	4330 Decr Blythe, CA		d Landfil			U.S. EPA ID	Number	
The second second	706-592.3	N.E.I		10. Contai	ners	11, Total	12. Unit	
9. Waste Shipping Na	me and Description			No.	Туре	Quantity	Wt./Vol.	
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37	egion Industries, Inc. 10 Mills Road	Gener	ator's Site Address	(if different tha	n mailing addr	ess)	
	laynesboro, GA 30830 16-554-4411	Ĩ		39		TO .	*
6. Transporter 1 Company Name	xx#383				U.S. EPA ID	Number	
Davis Hauling 176 Transporter 2 Company Name	7. C F 20 J		- b.		U.S. EPA ID	Number	
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4	Augusta Deians Bridge R 1330 Deians Bridge Road Hythe, GA 30805		H		U.S. EPA ID	Number	
and the Committee of the Australia	06-592-3200		10. Contai	iners	11. Total	12. Unit	
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enerator's/Offeror's Printed/Typed Name	Riggs on behalf of Legion	Signature Inclustries	See A American			-	Month Day
5. International Shipments Import to U		Export from U.S.	Port of en	try/exit:		1	6 6 7 0 7
3. Transporter Acknowledgment of Receipt of Mater	rials					1-	
ransporter 1 Printed/Typed Name		Signature	6			1 -	Month Day
X Thomas 1994 (IET) ransporter 2 Printed/Typed Name	TE NSAT	Signature	Court 1	CLEVE	1 Club	121	Month Day
7. Discrepancy							1 1
7a. Discrepancy Indication Space Quantity	Туре		Residue		Partial Re	ejection	Full Rejection
b. Alternate Facility (or Generator)		M	anifest Reference N	iumber:	U.S. EPA ID	Number	
acility's Phone:							Month Day
7c. Signature of Alternate Facility (or Generator)					7/8/	3	Month Day
8. Designated Facility Owner or Operator; Certificati	ion of receipt of materials reversed by the	milaet avaant as and	ad in Ham 17a				

WASTE MANIFEST	G A D O 5 4 2	and the second s	age 1 of 3, Emerg	04-431 -		4. Waste I	racking Num			
5. Generator's Name and Ma	Legion Incl 370 Mils Ro	lustries, Inc.		r's Site Address		an mailing add		37		
Generator's Phone: 6. Transporter 1 Company N	70 d - 6 Fid . A.A.	11				U.S. EPA ID	Number			
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WASTE MANIFEST	D 0 5 4 2 2 3 9	87 Z. Page 11	3. Emergency F		Phone 2951	4. Waste T	racking Numb	
5. Generator's Name and Mailing Address Generator's Phone:	Legion Industries. 370 Mills Road Waynesboro, GA 706-554-4411		Generator's Site	Address	(if different the	an mailing addr	ess)	
						U.S. EPA ID	Number	
Davis Hauling	TROCKE 509							
Transporter 2 Company Name						U.S. EPA ID	Number	
Designated Facility Name and Site Address  Facility's Phone:	Augusta Delans Bridg 4330 Delans Bridg Blythe, GA 30803 706-597-3000	ge Road	andfill			U.S. EPA ID	Number	
				10. Contai	ners	11. Total	12. Unit	
Waste Shipping Name and Descripti	ion		N	lo.	Туре	Quantity	Wt./Vol.	
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The state of the s			100					
Special Handling Instructions and Addition								15 - 15
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WASTE MANIFEST  5. Generator's Name and Mailin			3. Emergency Response			racking Numbe		
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enerator's Phone: . Transporter 1 Company Nam	7 7 11 11 V	-1			U.S. EPA ID	Number		
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Designated Facility Name and	d Site Address Augusta Dec 4000 Decins B Blythe, GA 30 706-592-3200	1805	ndfill		U.S. EPA ID	Number		la la
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	gulated Material, Sc	allet Icali	No.	Туре	Quantity	Wt./Vol.		
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NON-HAZARDOUS 1. Generato	A D054223987	2. Page 1 of 3. Em	ergency Response	Phone 2951	4. Waste T	racking Number	
<ol> <li>Generator's Name and Mailing Address</li> <li>Generator's Phone;</li> </ol>	Legion Industries, Inc. 370 Mils Road Waynesboro, GA 30830 706-554-4411		ator's Site Address	(if different tha			
6. Transporter 1 Company Name DGMs Hauling	Truck # 383				U.S. EPA ID	Number	
7. Transporter 2 Company Name					U.S. EPA ID	Number	
Designated Facility Name and Site Addres     Facility's Phone:	Augusta Deans Bridge 4330 Deans Bridge Roc Blythe, GA 30805 706-592-3200		li .		U.S. EPA ID	Number	
Waste Shipping Name and Descrip			10. Contai	ners	11. Total	12. Unit	
	, and the second		No.	Туре	Quantity	Wt./Vol.	
Non-Regulate Approval #13	ad Material, Solid (Soli) 3-0530		001	DT	Est. 18	1	
2.			10-11				
3.							
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A&D Environments	onal Information of Job #130392						
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A	NON-HAZARDOUS	1. Generator ID Number		2. Page 1 of	3. Emergency Response	Phone	4. Waste T	racking Numb	per	
T	WASTE MANIFEST	GAD0542	23987	1	404-431			1254	3	
	5. Generator's Name and Mail	370 Mills Ro	ad		Generator's Site Address	i (if different th	an mailing add	ress)		
П	Generator's Phone:		o, GA 30830	T						
	6. Transporter 1 Company Na	706-554-441 me	2010				U.S. EPA ID	Number		
П	Davis Ho	aulina Trull #	218				1			
	7. Transporter 2 Company Na		i				U.S. EPA ID	Number		
	D. Designated Facility Name of	Che Address	- t	V	2004		H C EDA ID	Monther		
	Designated Facility Name a     Facility's Phone:	vodosin o			sociiii		U.S. EPA ID	Number		
					10. Conta	ainers	11. Total	12. Unit		
	9-Waste Shipping Nam				No.	Туре	Quantity	Wt./Vol.		
GENERATOR -		egulated Material, val #13-0530	Solid (Soli)		001	DT	Est. 18	76.0		
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		ronmental Job # 130392		accelerament of	to fully and inspirately day	enithed above	by the property	hinsing game		least.
ı	marked and labeled/placar	R'S CERTIFICATION: I hereby declare ded, and are in all respects in proper co	ndition for transport acc	ording to applic	able international and nati	ional governm	ental regulation	nipping name, s.	and are classified, pac	kaged,
*	Generator's/Offeror's Printed/1	Typed Name Suscen Plagas on to	ehalf of Legic	on krediesis	nature	y-V-	198	46	Month Day	Year
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	Transporter Signature (for exp				Date leav	ing U.S.:	11			
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TRANSPORTER	Transporter 2 Printed/Typed N	1 2 7 1 1 1		Sig	nature	£			Month Day	
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1	17. Discrepancy				_		_			
1	17a. Discrepancy Indication Sp	Quantity	Туре		Residue		Partial Re	ejection	Full Re	jection
1					Manifest Reference I	Number:				
Y	17b. Alternate Facility (or Gene	erator)					U.S. EPA ID	Number		
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EDF	Facility's Phone: 17c. Signature of Alternate Fac	cility (or Generator)						4	Month Day	Year
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-	19 Decimented Coulity Over	or Operator: Codification of second of	atariale assured by the	monifost avec	Los poted in time 17s			0,- 3	es fire	- 11
	Printed/Typed Name	or Operator: Certification of receipt of m	aterials covered by the		nature				Month Day	Year
*	- South William Library				277				l l	1

WASTE MANIFEST	1229987 2. Page 1 of 3.	Emergency Response	Phone (2051	4. Waste T	racking Number	
5. Generator's Name and Mailing Address Legion 1 370 Mills WCVTG3 Generator's Phone: 706-554	ndustries, Inc. Ge Road Daro, G.A. 20830	nerator's Site Address	(if different tha	an mailing add	4 4	N
6. Transporter 1 Company Name Davis Hauling Travelub	284			U.S. EPA ID	Number	
7. Transporter 2 Company Name	301			U.S. EPA ID	Number	
4330 De Blythe,	a Deans Bridge Road Lan eans Bridge Road GA 30805	thii .		U.S. EPA ID	Number	
Facility's Phoné: 706-592	-32(A)	10, Contai	ners	11, Total	12. Unit	
Waste Shipping Name and Description		No.	Туре	Quantity	Wt./Vol.	
Nort-Regulated Mater Approval #13-0530	lal, Solid (Soli)	001	DT	Est.	ports.	
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13. Special Handling Instructions and Additional Information  A&O Environmental Iob #130	392			0		
A&D Environmental Job #130  4. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby de marked and labeled/placarded, and are in all respects in progenerator's/Offeror's Printed/Typed Name	clare that the contents of this consignment are fu er condition for transport according to applicable Signate	international and nation	onal governme	ental regulation	hipping name, a	Month Day Y
A& D Environmental Tob #130  4. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby de marked and labeled/placarded, and are in all respects in profenerator's/Offeror's Printed/Typed Name  Suscin Riggs co.  5. International Shipments	clare that the contents of this consignment are fu er condition for transport according to applicable	international and national and	onal governme	ental regulation	hipping name, a	
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A.S.D. Environmental Job #130  4. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby de marked and labeled/placarded, and are in all respects in projection of the project of th	clare that the contents of this consignment are from the condition for transport according to applicable Signature to the condition for transport according to applicable in the condition for transport according to applicable in the condition for transport according to the condition for transport according to the condition for transport according to the condition for transport according to the condition for transport according to the condition for transport according to the condition for transport according to applicable in the condition for transport according to applicable in the condition for transport according to applicable in the condition for transport according to applicable in the condition for transport according to applicable in the condition for transport according to applicable in the condition for transport according to applicable in the condition for transport according to applicable in the condition for transport according to applicable in the condition for transport according to a condition for transport according to the condition for the condition for the condition for the condition for transport according to the condition for th	Port of eni Date leavi	onal governme	ental regulation	S.	Month Day Y
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NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	1000007	2. Page 1 of 3. En			4. Waste T	racking Number	
5. Generator's Name and Maili	an Autobiana	4223987	Gene	a04-431- rator's Site Address		an mailing addr	1 254:	7
Generator's Phone:	370 Mil Wayne	Industries, Inc. Is Road Isboro, GA 30830	1		V Sustantia		334	
Transporter 1 Company Nan	706.56	200				U.S. EPA ID	Number	
Davis Ho	iuling Truck i	# 42 4		7				
. Transporter 2 Company Nan	ne			4.		U.S. EPA ID	Number	
. Designated Facility Name ar	od Sito Address			(6)		U.S. EPA ID	Number	
acility's Phone:	4330 ( Blythe	sta Deans Bridge Deans Bridge Roa D, GA 30805 22-3200			is 1	U.S. EPA ID	Number	
9. Waste Shipping Nam	To Constant			10. Conta	iners &	11. Total	12. Unit	
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ransporter 2 Printed/Typed N	ame		Signature	Anne Lat	- /1	2	•	Month Day
7. Discrepancy								
7a. Discrepancy Indication Sp	ace Quantity	Туре		Residue		Partial R	ejection	Full Reject
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7b. Alternate Facility (or Gene	erator)		- N	lanifest Reference N	lumber:	U.S. EPA ID	) Number	
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acility's Phone:						1	¥	
7c. Signature of Alternate Fac	ility (or Generator)							Month Day
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nate of the last								
9 Decimated English Over-	or Operator: Cartification of	aint of materials accounted by the	nonifeet aveest as	ated in Item 17a				
B. Designated Facility Owner rinted/Typed Name	or Operator: Certification of rec	eipt of materials covered by the	nanifest except as no Signature					Month Day
annew typos reams			- Signature					1 L

NON-HAZARDOUS 1. Generator   MASTE MANIFEST	D Number N D 0 5 4 2 2 3 9 8 3	2. Page 1 of	3. Emergency Response	Phone	4. Waste T	racking Numb	
5. Generator's Name and Mailing Address  Generator's Phone:	Legion inclustries, inc. 370 Mills Road Waynesboro, GA 308 706-554-4411		Generator's Site Address		an mailing addr		
6. Transporter 1 Company Name	Tacks				U.S. EPA ID	Number	
7. Transporter 2 Company Name	LICA & DX				U.S. EPA ID	Number	
Designated Facility Name and Site Address	Augusta Deans Brida	ne Poord La	escettin		U.S. EPA ID	) Number	
Facility's Phone:	4330 Deans Bridge R Blythe, GA 30805 706-592-3200		7 P.W.W		1		
Waste Shipping Name and Description			10. Conta	iners	11. Total	12. Unit	
The state of the s			No.	Туре	Quantity	Wt./Vol.	
Non-Regulated Approval #13-	d Material, Solid (Sc 0530	511)	001	DT	Est.	1	
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14. GENERATOR'S/OFFEROR'S CERTIFICA marked and labeled/placarded, and are in a Generator's/Offeror's Printed/Typed Name	FION: I hereby declare that the contents of all respects in proper condition for transport can literation bestrailf of Leg	according to applic Sig	able international and national materials	onal governme	ental regulation	hipping name,	Month Day
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Fransporter 2 Printed/Typed Name		Sig	nature				Month Day
7. Discrepancy							
7a. Discrepancy Indication Space	uantity Type	4	Residue  Manifest Reference N	lumbar	Partial Re	ejection	Full Rejection
7b. Alternate Facility (or Generator)			manifest ridiciones in	MINUOL.	U.S. EPA ID	) Number	
Facility's Phone:	w)						Month Plan
17c. Signature of Alternate Facility (or General	л)	1	151 % 6				Month Day
			No.				
<ol> <li>Designated Facility Owner or Operator: Cer Printed/Tuned Name</li> </ol>	tification of receipt of materials covered by		t as noted in Item 17a nature				Month Day
Printed/Typed Name		Sig	Hallie				Month Day

WASTE MANIFEST	1. Generator ID Number	Charles of the child	11.00	3. Emergency Responsi		70.000	Fracking Nun			
5. Generator's Name and Maili	ing Address Legion Inck 370 Mils Ro	ustries. Inc.	1 1	404-431 Generator's Site Addres	s (if different th	an mailing add	ress) 125	4.7		
Generator's Phone;		ro, GA 30830				- 10.				
Transporter 1 Company Nar Crivis Ho	ouling Trick # 3					U.S. EPA ID	Number			
. Transporter 2 Company Nar	ne					U.S. EPA ID	Number			
B. Designated Facility Name a	a majatana m			ncifil		U.S. EPA ID	) Number		1	
1		ZCXI		10. Cont	ainers	11. Total	12. Unit			
9. Waste Shipping Nam				No.	Туре	Quantity	Wt./Vol.			
	egulated Material, val #13-0530	, Solid (Soli)		001	DT	Est.	1			
2.	E					- 6.5				
3.										
4.										
	ons and Additional Information rountmental Leb #130392	į,	1							
A& D Errori  4. GENERATOR'S/OFFERO marked and labeled/placar	ronmental Job #130392  R'S CERTIFICATION: I hereby declare ded, and are in all respects in proper co	that the contents of this condition for transport acco	ording to applica	ble international and nat	scribed above litional governme	by the proper s	hipping name	Month	Day	Ye
4. GENERATOR'S/OFFERO marked and labeled/placar Generator's/Offeror's Printed/T	R'S CERTIFICATION: I hereby declare ded, and are in all respects in proper co	that the contents of this condition for transport acco	ording to applica	ble international and nat	tional governme	by the proper s	hipping name		Day	100
4. GENERATOR'S/OFFERO marked and labeled/placar Generator's/Offeror's Printed/T 5. International Shipments transporter Signature (for exp	R'S CERTIFICATION: I hereby declare ded, and are in all respects in proper corryped Namegus on its Import to U.S. orts only):	that the contents of this condition for transport acco	ording to applica	ble international and nat	tional governme	by the proper s ental regulation	hipping name	Month	Day	Ye
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A. C. Erron  4. GENERATOR'S/OFFERO marked and labeled/placar Generator's/Offeror's Printed/T  5. International Shipments Fransporter Signature (for exp 6. Transporter Acknowledgm Fransporter 1 Printed/Typed N  Transporter 2 Printed/Typed N  To Discrepancy Ta. Discrepancy Indication Sp  Tb. Alternate Facility (or General	R'S CERTIFICATION: I hereby declare ded, and are in all respects in proper confused Name Suscin Riggs on the Import to U.S. orts only):  ent of Receipt of Materials lame  PART FOR SUSCINE SUS A lame	that the contents of this condition for transport acco	ording to applica	ble international and natature  S. Port of e Date lear	ntry/exit:ving U.S.:	Partial R	121 ejection	Month   G	Day Day	+ Y
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<b>A</b>	NON-HAZARDOUS WASTE MANIFEST G A	Number D 0 5 4 2 2 3 9	8 7 2. Page 1 of 1	3. Emergency Response 404-431	Phone -2951	4. Waste 7	Fracking Number		
0	5. Generator's Name and Mailing Address Generator's Phone:	Legion Inclustries, i 370 Mills Road Waynesboro, GA: 706-554-4411		Generator's Site Address	s (if different th				
6	5. Transporter 1 Company Name Davis Hauling /	VZCHILL				U.S. EPA ID	Number		
7	7. Transporter 2 Company Name	and the first of the				U.S. EPA ID	Number		
		191							
	Designated Facility Name and Site Address     Facility's Phone:	Augusta Deans Bridg 4330 Deans Bridg Blylne, GA 30805 704-592-3000		onc#ill		U.S. EPA ID	) Number		
F	9. Waste Shipping Name and Description			10. Conta	Type	11. Total Quantity	12. Unit Wt./Vol.		
GENERATOR	Non-Regulated Approval #13-0	l Material, Solid 5530	(Soll)	001	ĎΤ	Est. 18	- Promise		,,,
GEINE	2.								
	4.								
	A&D Envarcemental  14. GENERATOR'S/OFFEROR'S CERTIFICAT marked and labeled/placarded, and are in al  Generator's/Offeror's Printed/Typed Name	ION: I hereby declare that the conte	nsport according to applic Sig	able international and nati nature	ional governme			Month Day	Year
1 1	15. International Shipments Impor		Export from (	1 1 1 1 1 1 1	Sa 1	y Serve		6 21	13
-	Fransporter Signature (for exports only): 16, Transporter Acknowledgment of Receipt of I	faterials		Date leav	ring U.S.;	-	-		
T T	Fransporter 1 Printed/Typed Name	185	18	nature	la	492		Month Day  Month Day	Year Year
1	17, Discrepancy 17a. Discrepancy Indication Space Quality	antity	Туре	Residue		Partial Re	ejection	☐ Full Rej	ection
1	7b. Alternate Facility (or Generator)			Manifest Reference N	Number:	U.S. EPA ID	) Number		
F	Facility's Phone:								
F 1	7c. Signature of Alternate Facility (or Generator							Month Day	Year
	Designated Facility Owner or Operator: Certi	fication of receipt of materials cover	ed by the manifest excen	t as noted in Item 17a				3.55	-
-	Printed/Typed Name	7		nature				Month Day	Year

NON-HAZARDOUS	1. Generator ID Number	2. Page 1 of 3. Eme	rgency Response	Phone	4. Waste T	racking Number	er
WASTE MANIFEST	GAD054223987		404-431-		12.1	12549	7
5. Generator's Name and Mailir Generator's Phone:			tor's Site Address	(if different the	an mailing add	ress)	*-
5. Transporter 1 Company Nam					U.S. EPA ID	Number	
Davis Ha	ulina Tal. 1 = 384						
Transporter 2 Company Nam					U.S. EPA ID	Number	
Destauted Collins Name on	d Chr. Address				U.S. EPA ID	Mumbae	
Designated Facility Name an     Facility's Phone:	d Sile Address Augusta Deans Bridge 4330 Deans Bridge Rod Blythe, GA 30805 706-592-3200				U.S. EPA ID	Number	
		5. 2-4	10. Conta	iners	11. Total	12. Unit	
9. Waste Shipping Name	4 0 0 0 0 0		No.	Туре	Quantity	Wt./Vol.	
	gulated Material, Solid (Soli) al #13-0530		001	DT	Est. 18	Breeze	A. Weil
2.	9	- 6	001	-	10	1	5.0
		** T)					
3.		(2)					(1) (1)
						0	
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marked and labeled/placard	R'S CERTIFICATION: I hereby declare that the contents of this led, and are in all respects in proper condition for transport acceptable.	cording to applicable inte	nd accurately des	cribed above l	by the proper s	hipping name, a s.	
	yped NameSusan Riggs on behalf of Legic	on trobusines	Garage Con	4- L	1,45		Month Day
5. International Shipments	Import to U.S.	Export from U.S.	Port of en				
ransporter Signature (for expo			Date leavi	ng U.S.:	4		
6. Transporter Acknowledgme ransporter 1 Printed/Typed Na		Signature	171	11			Month Day
A K	14 Creen	1 September 1	1/2 1/3	()n	101	Y	1617/1
ransporter 2 Printed/Typed Na		Signature	very	116			Month Day
		1	,				
7. Discrepancy							
7a. Discrepancy Indication Sp	ace Quantity Type	T	Residue		Partial R	election	Full Reject
	□ Quantity □ Type		nesidue		L Fallai n	ejection	La Full Rejecti
		Ma	nifest Reference N	lumber:			
7b. Alternate Facility (or Gene	rator)				U.S. EPA ID	Number	
					1		
acility's Phone:	The Comment of				1		Heate Box
7c. Signature of Alternate Fac	nny (or Generator)	1					Month Day
3 4							
The second secon	or Operator: Certification of receipt of materials covered by the	TO THE REAL PROPERTY.	d in Item 17a				
Printed/Typed Name		Signature					Month Day

WASTE MANIFEST	TOTAL DO 542	23987	age 1 of 3. Emerg	ency Response F	2951	4. Waste T	racking Number	
5. Generator's Name and Mailing Address Generator's Phone: 3. Transporter 1 Company Name	370 Mills Roa Waynasboro 706-554-4411	d AMANO	Generato	r's Site Address (	if different tha	an mailing addr		1
Davis Hauling	Tankuzy	8				)	Number	
Transporter 2 Company Name	1					U.S. EPA ID	Number	
						1		
Designated Facility Name and Site Address  Facility's Phone:			ad Landfill			U.S. EPA ID	Number	
	42			10. Contain	ners	11. Total	12. Unit	
Waste Shipping Name and Description	ription			No.	Туре	Quantity	Wt./Vol.	
1. Non-Regulat Approval #1	ed Material, S 3-0530	Solid (Soli)		001	DT	Est.	- Vage in	
2.							0	
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Special Handling Instructions and Addit								- 1
A&D Environmen	ital Job #130392							
GENERATOR'S/OFFEROR'S CERTIF marked and labeled/placarded, and are enerator's/Offeror's Printed/Typed Name	FICATION: I hereby declare that in all respects in proper condi	lition for transport according	g to applicable interr Signature	national and natio	nal governme	by the proper si ental regulation	hipping name, a	Month Day
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NON-HAZAR	0003	rator ID Number		2. Page 1 of 3	. Emergency Response		4. Waste T	racking Number		
WASTE MAN	ne and Mailing Address	3 A D O 5 4 2		1	404-431 - enerator's Site Address	0051	an mailing addr	12551		
Generator's Phone:		370 Mills Ro	ro, GA 30630				an maning assi	5557		
6. Transporter 1 Co	ompany Name	10 145	63				U.S. EPA ID	Number		
Da	Vis Hauling	TELLET	0 2				III FRAIR	A)	4	
7. Transporter 2 Co	ompany Ivame						U.S. EPA ID	Number		
8. Designated Facil	lity Name and Site Add	dress Aurustrali	Deans Bildge	Receil for	oc (fill		U.S. EPA ID	Number		
Facility's Phone:			ns Bridge Roc A 30805		P-000		1			
Q Wasta Sh	ipping Name and Des	cription			10. Contain	ners	11. Total	12. Unit		
TT 122,00-2					No.	Туре	Quantity	Wt./Vol.		
	on-Regula oproval#1	ted Materia 13-0530	, Solid (Soli)		001	DY	Est.	7		
2.										
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marked and lab	eled/placarded, and ar	FICATION: I hereby declare	ondition for transport acc	ording to applicab	le international and natio	ribed above t	by the proper si	nipping name, a		
		susan Piggs on I	sehalf of Legia	in Industrie	ture	3.0	n Op.	-	Month Day	Year
	ure (for exports only):	Import to U.S.		Export from U.S	Port of enti- Date leaving		9			
Transporter 1 Prints	knowledgment of Rece		9	Signa	hure 3 /		4. *	7	Month Day	Year
XTThon	18 2 1113	CIETEUS	hi	14	Almost !	1 100	ilin is	12.	1 Cor 1 71	113
Transporter 2 Printe				Signa	ture			×	Month Day	
17. Discrepancy										Year
17a. Discrepancy In										Year
	ndication Space	Quantity	Туре		Residue  Manifest Reference N	umhar	Partial Re	ejection	Full Rej	
17b. Alternate Facil		Quantity	Туре	1	Residue  Manifest Reference No	umber;	U.S. EPA ID		☐ Full Rej	
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Facility's Phone:			Туре	1		umber:			Full Rej	
Facility's Phone:	Lity (or Generator)		Туре			umber:				ection
Facility's Phone: 17c. Signature of Al	ity (or Generator)  Iternate Facility (or Gen			manifest except a	Manifest Reference No	umber:				ection
Facility's Phone: 17c, Signature of Al	ity (or Generator)  Iternate Facility (or Generator)	nerator)		manifest except a	Manifest Reference No	imber;				Year

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	23987	Page 1 of 3. Er	nergency Response P	hone	4. Waste T	racking Number		
Generator's Name and Mailin     Generator's Phone:	ng Address Legion incl 370 Mills Ro	ustries, Inc. oad ro, GA 30830	Gene	rator's Site Address (i	different tha	an mailing addr	ess)		
6 Transporter I Company Nan						U.S. EPA ID	Number		
7. Transporter 2 Company Nan		301				U,S. EPA ID	Number		
Designated Facility Name are	4330 Dec			is ii		U.S. EPA ID	Number		
acility's Phone: 9. Waste Shipping Nam	706-592-3 e and Description	AU		10. Contain	ers	11. Total Quantity	12,-Unit Wt./Vol.		
	gulated Materia val #13-0530	l, Solld (Soll)		001	DT	Est.	A.		
3. /		- 4	×	1,=4					
3. Special Handling Instruction A.S. D. Ernar	ns and Additional Information commonly to by 1303%	Starter.						\$ *	
4. GENERATOR'S/OFFEROR marked and labeled/placard enerator's/Offeror's Printed/T	R'S CERTIFICATION: I hereby declared ded, and are in all respects in proper cyped Name	ondition for transport accord	ing to applicable in Signature	nternational and nation	al governme	by the proper sintal regulation	hipping name, a s.	nd are classified, pack	aged
5. International Shipments ransporter Signature (for expo	Import to U.S.	sehalf of Legion	Export from U.S.	Port of entry Date leaving	//exit:	H Tycht		6/21	
6. Transporter Acknowledgme ransporter 1 Printed/Typed Na ransporter 2 Printed/Typed Na	ame J		Signature Signature	1. 1	, K	Mag		Month Day Month Day	1
7. Discrepancy  7a. Discrepancy Indication Sp	ace Quantity	Туре		Residue	ark an	Partial Re	ejection	Full Rej	ection
7b. Alternate Facility (or Gene	rator)		, n	fanifest Reference Nu	mbet.	U.S. EPA ID	Number		
acility's Phone; 7c. Signature of Alternate Fac	ility (or Generator)	***	-1					Month Day	1
	or Operator: Certification of receipt of r	naterials covered by the ma			1 3			* 1	-2
Printed/Typed Name			Signature					Month Day	1

NON-HAZARDOUS	1. Generator ID Number	2, Page	1 of 3, Emergency R	esponse Phone	4. Waste T	racking Nur	nber	
WASTE MANIFEST  5. Generator's Name and Mail	GAD0542	Mar 201 ( ) 1 ( )	1 AOA-	431-295	nt than mailing addr	125	53	
b. Generalors Name and man	Legion Indu 370 Mills Roc Waynesbore	nd	Obligitation & Onle	Addiess (ii diliele	nt tian maining avoi	653/		
Generator's Phone: 5. Transporter 1 Company Na	706-554-44I				U.S. EPA ID	Number		
Davs Ho		) /			1	Humbor		
7. Transporter 2 Company Na					U.S. EPA ID	Number		
Designated Facility Name a	nd Site Address Augusta De	eans Bridge Road	d Landlill		U.S. EPA ID	Number		
20		s Bridge Road						
acility's Phone: /	706-592-320	X)	Negative.			1		
9. Waste Shipping Nan	ne and Description		-	0. Containers	11. Total Quantity	12. Unit Wt./Vol.		
1. Non-Re	gulated Material,	Solid (Soll)	. 14	J. Type	dustany	11137013	10	-063
Approv	/al #13-0530	estima que estig	(	100	)T Est. 18	- Tenan		
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у.					146	-		
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4				*				,
4. GENERATOR'S/OFFERO	R'S CERTIFICATION: I hereby declare the	at the contents of this consigni	nent are fully and accur	ately described ab	ove by the proper s	hipping name	s, and are clássified, pac	kaged,
	rded, and are in all respects in proper con Typed Names: soon Riggs on the			and national gove	rnmental regulation	S.	Month Day	1
	arracan registration	arene est reschent auch	SHIRE	Total In	300.4		6 7/	1
5. International Shipments ransporter Signature (for exp	Import to U.S.	Export		ort of entry/exit: _ ate leaving U.S.:				
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ransporter 1 Printed/Typed N	Marks		Signature	gr /	Lay	7 in	Month Day	16
ransporter 2 Printed/Typed N	lame	-41	Signature		1		Month Day	1
7. Discrepancy 7a. Discrepancy Indication S								
va. Discrepancy indication S	Quantity	Туре	L Resid	re-1	Partial Re	ejection	Full Re	jection
7b. Afternate Facility (or Gen	erator)		Manifest He	erence Number:	U.S. EPA ID	) Number		
acility's Phone:					-			
7c. Signature of Alternate Fa	cility (or Generator)		Ĺ				Month Day	1
3-1-5		1000	1		1,500	DA.	18 19 11	
Declarated Facility Co.	On Control On Wheelton of the Control	todala assared by the	evicent as water the ti-	176		U.	227	b
<ol> <li>Designated Facility Owner rinted/Typed Name</li> </ol>	or Operator: Certification of receipt of ma	terials covered by the manifest	except as noted in Item Signature	1/8			Month Day	. 1
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4	NON-HAZARDOUS US GAD COMMENTS	54223987	2. Page 1 of 3	3. Emergency Response	Phone . 2951	4. Waste 1	racking Numb	
	370 Wo	ion Inclustries, Inc. Mills Road ynesboro, GA 30830 564-4411		Generator's Site Address	(if different the	an mailing add	ress)	
	Generator's Phone: 706- 6. Transporter 1 Company Name	304-34 ( )			+	U.S. EPA ID	Number	
	Davis Hauling 1	41383				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
7	. Transporter 2 Company Name					U.S. EPA ID	Number	
	433 Bly	gusta Deans Bridge 80 Deans Bridge Roo The, GA 30805 1-592-3200		巧剛		U.S. EPA ID	Number	
r		D=: 14.5-270.13		10. Conta	iners	11. Total	12. Unit	
T	Waste Shipping Name and Description			No.	Туре	Quantity	Wt./Vol.	
	1. Hon-Regulated Ma Approval #13-0530	the state of the s	)	001	DT	Es1.	(Aug	
	2.							
	3.							
	4.							
3	Special Handling Instructions and Additional Informat			- 41 11				
	A& D Environmental Tob 1  4. GENERATOR'S/OFFEROR'S CERTIFICATION: The marked and labeled/placarded, and are in all respect Generator's/Offeror's Printed/Typed Name Suscin RK	ereby declare that the contents of this	cording to applications Signa	ole international and national	onal governme	by the proper sontal regulation	hipping name, a	and are classified, packaged,  Month Day Year
1 1	5. International Shipments Import to U.S.		Export from U.S	1 1 1 1 1 1		- J		C2 64 /3
-	ransporter Signature (for exports only):			Date leavi	ng U.S,:			
1	<ol> <li>Transporter Acknowledgment of Receipt of Materials ransporter 1 Printed/Typed Name</li> </ol>		0	tore				Mount No.
		L-	Signa	iture	No. of		1.	Month Day Year
T X	Thonas, MACLE) E	- LUSAI	Signa	iture	11000	yel	212	Month Day Year
-								
	7. Discrepancy 7a. Discrepancy Indication Space Quantity	Туре		Residue		Partial Re	ejection	Full Rejection
7	7b. Alternate Facility (or Generator)		4 -	Manifest Reference N	lumber:	U.S. EPA ID	Number	
F	acility's Phone:							
F 1	7c. Signature of Alternate Facility (or Generator)							Month Day Year
1	8. Designated Facility Owner or Operator: Certification of	of receipt of materials covered by the	manifest except a	s noted in Item 17a				
-	rinted/Typed Name		Signa					Month Day Year

	ator ID Number	2, Page		cy Response		4. Waste T	racking Numb		
	A D 0 5 4 2 2		1 4(	14-431-	2951	ın mailing addr	1255	6	
<ol> <li>Generator's Name and Mailing Address</li> <li>Generator's Phone:</li> </ol>	Legion Industr 370 Mils Road Waynesboro, 706-554-4411	1	Generators	Site Address	(ii dinerent tria	in mailing addr	essj		
. Transporter 1 Company Name						U.S. EPA ID	Number		
Transporter 1 Company Name  Davis Houling  Transporter 2 Company Name	fil tour IT					U.S. EPA ID	Montes		
Transporter 2 Company Name						U.S. EPA ID	Number		
Designated Facility Name and Site Additional State Additi	Augusta Dec 4330 Deans ( Blythe, GA 3 706-592-3200	0805	d Landfill			U.S. EPA ID	Number		
				10. Contai	ners	11. Total	12. Unit		
Waste Shipping Name and Description				No.	Туре	Quantity	Wt./Vol.		
Approval#1	ted Material, S 3-0530	olid (Soil)		001	DT	Est. 18	erani		
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3.							2		
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	itional Information Hall Jab #130392								
A&D Envaronment  4. GENERATOR'S/OFFEROR'S CERTIF marked and labeled/placarded, and are	FICATION: I hereby declare that e in all respects in proper condition	on for transport according to	applicable internat	accurately desional and natio	cribed above to	by the proper s	hipping name, s	Mogth Day	
A&D Environment  4. GENERATOR'S/OFFEROR'S CERTIF marked and labeled/placarded, and are denerator's/Offeror's Printed/Typed Name	FICATION: I hereby declare that e in all respects in proper condition	on for transport according to	applicable internat	ional and natio	cribed above bonal governme	by the proper s	hipping name, a	200000000000000000000000000000000000000	
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A&D Environment  4. GENERATOR'S/OFFEROR'S CERTIF marked and labeled/placarded, and and Generator's/Offeror's Printed/Typed Name  5. International Shipments  Fransporter Signature (for exports only):  6. Transporter Acknowledgment of Recei Transporter 1 Printed/Typed Name  Fransporter 2 Printed/Typed Name  7. Discrepancy  7. Discrepancy  7. Discrepancy Indication Space	FICATION: I hereby declare that e in all respects in proper conditions and in the largest on the house of the largest of the largest of Materials	on for transport according to	signature Signature Signature Signature	Port of ent	onal governme	ntal regulation	ejection	Month Day  Month Day	Y .
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14. GENERATOR'S/OFFEROR'S CERTIF marked and labeled/placarded, and are Generator's/Offeror's Printed/Typed Name 15. International Shipments  Transporter Signature (for exports only): 16. Transporter Acknowledgment of Recei	FICATION: I hereby declare that e in all respects in proper conditions are the interest of the	on for transport according to	signature  Signature  Signature  Manifes	Port of ent Date leavi	onal governme	ntal regulation	ejection	Month Day  Month Day  Month Day	Y ection

NON-HAZARDOUS 1. Generalis WASTE MANIFEST	AND8 5422	3987 2 Page	1 of 3. Emergen	y Response	Phone 2951	4. Waste T	racking Num	
Generator's Name and Mailing Address     Generator's Phone:	Legion Inclusion 370 Mills Road Waynesboro, 706-554-4411	1	Generator's	Site Address	(if different tha	an mailing addr	ess)	1
6. Transporter 1 Company Name Days Hauling	To 1420	U				U.S. EPA ID	Number	
7. Transporter 2 Company Name	111-11 # 20	7				II C FOA ID	Months	
7. Transporter 2 Company Name						U.S. EPA ID	Number	
Designated Facility Name and Site Address     Facility's Phone:	Augusta Dec 4330 Decris B Blythe, GA 30 706-592-3200	3905	Landill			U.S. EPA ID	Number	
				10. Contai	ners	11, Total	12. Unit	
Waste Shipping Name and Descrip	otion			No.	Type	Quantity	Wt./Vol.	
Non-Regulate Approval #13	ed Malerial, Sc 3-0530	olid (Soli)		001	DT	Est.	jatecia	
2.				0			-	
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14. GENERATOR'S/OFFEROR'S CERTIFIC marked and labeled/placarded, and are it Generator's/Offeror's Printed/Typed Name	CATION: I hereby declare that the nall respects in proper condition	he contents of this consignm in for transport according to a	ent are fully and ad applicable internation	curately desconal and natio	ribed above b	y the proper si	nipping name, s.	and are classified, packaged,  Month Day Year
St.	usan läggs on behi	alf of Legion Incl.	res Bees se as	115	A 7	white said	****	16 34 13
Transporter Signature (for exports only):	port to U.S.	Export f	rom U.S.	Port of ent Date leaving				
16. Transporter Acknowledgment of Receipt Transporter 1 Printed/Typed Name	of Materials		Signature	4775	/	PT		Month Day Year
X K. V.	1000		X -	F:	1, 6	VIV	-	W6/24/13
Transporter 2 Printed/Typed Name			Signature	41. 4		1 Late	1	Month Day Year
17. Discrepancy 17a. Discrepancy Indication Space	Quantity	Туре		esidue Reference N	umhar	Partial Re	ejection	Full Rejection
17b. Alternate Facility (or Generator)			mamost	Transiano iv	umpor.	U.S. EPA ID	Number	Sec
Facility's Phone:	ator)		h					Month Day Year
			*			1		
18. Designated Facility Owner or Operator: C	Certification of receipt of materia	als covered by the manifest e	xcept as noted in I	tem 17a				
Printed/Typed Name		5	Signature					Month Day Year

4	NON-HAZARDOUS	1. Generator ID Number		Page 1 of 3. Emerc			4. Waste T	racking Number		
**	WASTE MANIFEST  5. Generator's Name and Mailin	GAD0542  Address Legion Incl.  370 Mills Ro	ishies, Inc.		104-431 - r's Site Address (		n mailing addr	1255) ress)	5 .	
	Generator's Phone:	Carlo Control Control Control	o, GA 30230	1						
(	3. Transporter 1 Company Nan	juling Trusct # 2					U.S. EPA ID	Number		
-	LFCI VIS FICE 7. Transporter 2 Company Nam	iving / Isoci // o	0 /				U.S. EPA ID	Number		
		•				2				
	<ol> <li>Designate Facility Name ar</li> <li>Facility's Phone:</li> </ol>	) the state of the		ad Landiil			U.S. EPA ID	Number		
Ī	9. Waste Shipping Nam				10. Contain	ners	11. Total	12, Unit		
L			C-11-1 10-11		No.	Туре	Quantity	Wt./Vol.		
GENERALOR		gulated Material, al #13-0630	. SO((a (SO())		001	DT	Est. 18	-		
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	marked and labeled/placard	R'S CERTIFICATION: I hereby declare ded, and are in all respects in proper co yped Name (150) Proper on b	ndition for transport according	g to applicable interr	d accurately desc national and natio	ribed above b nal governme	y the proper s ntal regulation	hipping name, a s.	Month Day	Year
1	15. International Shipments	Import to U.S.		port from U.S.	Port of enti	- davit.	2 1		16 24	13
	Transporter Signature (for expo	orts only):	Ш	port nom U.S.	Date leavir		i e			1
5	16. Transporter Acknowledgme Transporter 1 Printed/Typed Na		N.	Signature	1	-4		7	Mopth Day	Vear
1	/ Leon	HaxES		X/	COZ	D	ay	1 4	Month Day	Year /3
	Transporter 2 Printed/Typed Na	ame	3	Signature					Month Day	Year
	<ol> <li>Discrepancy</li> <li>Discrepancy Indication Sp</li> </ol>	ace Quantity	Туре	<i>t</i>	Residue		Partial Re	ejection	Full Reject	tion
-	7b. Alternate Facility (or Gene	erator)		Mani	fest Reference N	umber:	U.S. EPA ID	Number		
1	Facility's Phone:	/4					-			- 12
	7c. Signature of Alternate Fac	(or Generator)		1 *					Month Day	Year
DESIGNALED FACILITY										
1	8. Designated Facility Owner	or Operator: Certification of receipt of m	aterials covered by the mani	lfest except as noted	in Item 17a					
F	Printed/Typed Name	*,		Signature					Month Day	Year

-	NON-HAZARDOUS WASTE MANIFEST	1. Generator II	D0542	29987	2. Page 1 of 3	Emergency Response		4. Waste Ti	racking Nur 125		
	Generator's Name and Mailine a	ng Address	Legion Ind. 370 Mils Ro Waynasbor 706-554-44	kad ro, GA 30830		enerator's Site Address		an mailing addre	955)		
	Transporter 1 Company Nan		2/3					U.S. EPA ID	Number		
7.	Days Ho Transporter 2 Company Nan		5 4 2					U.S. EPA ID	Number	-	
n	Declarated English Name or	d Cita Addense	A market	N	5 11	Ma.		HE EDAID	Monther		
1	Designated Facility Name and Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of	id Sile Address				CHIA		U.S. EPA ID	Number		
1		78		CAL		10. Conta	iners	11. Total	12. Unit		
3	9. Waste Shipping Nam	e and Description	n			No.	Type	Quantity	Wt./Vol.		
	Non-Re			, Solid (Soli	)	001	DT	Est.	Section		+
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	3.							31			
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	GENERATOR'S/OFFEROR marked and labeled/placard inerator's/Offeror's Printed/T	R'S CERTIFICAT ded, and are in a yped Name	TION: I hereby declare	that the contents of this	cording to applicab Signa	le international and nation	onal governme	ental regulations	ripping name	Month	Day Y
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Ge 15 Tra	GENERATOR'S/OFFEROI marked and labeled/placar merator's/Offeror's Printed/T International Shipments ansporter Signature (for expo Transporter Acknowledgmensporter 1 Printed/Typed Na	R'S CERTIFICAT ded, and are in a yped Name  in imports only): and of Receipt of lame  in in in in in in in in in in in in in i	FION: I hereby declare all respects in proper co carn friggs can b it to U.S.	that the contents of this position for transport according to the content of Legite	cording to applicab Signa SET Inch stress Export from U.S	Port of en Date leavi	try/exit:	ental regulations		Month   Co	Day Y 24 1.
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WASTE MANIFEST	1. Generator ID Number		3. Emergency Response		4. Waste 1	racking Number		
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. Transporter 2 Company					U.S. EPA ID	Number		
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NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number G A D 0 5 4	223987	2. Page 1 of 3. E	mergency Response 404-431	Phone -2951	4. Waste T	racking Number	
i. Generator's Name and Maili Generator's Phone:	370 Mills R	5ro, GA 30830	Ger	erator's Site Address	(If different th	an malling addr	ess)	
Transporter 1 Company Nar	ne	41)				U.S. EPA ID	Number	
Davis Ho								
Transporter 2 Company Nar	me ,					U.S. EPA ID	Number	
Designated Facility Name ar	nd Site Address	Consens Delalars	no addon	.0cm		U.S. EPA ID	Number	
acility's Phone:	1 11 11 11 11 11			riii		U.S. El A ID	Number	F 3 5
9. Waste Shipping Nam		171.5.1		10. Conta	ainers	11. Total	12. Unit	
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	Susan Riggs on	behalf of Legior	n Inclustrias		W.	150	uter.	160 24
i. International Shipments ansporter Signature (for expo b. Transporter Acknowledgme			Export from U.S.	Port of en Date leave			34	
ansporter 1 Printed/Typed N			Signatur	e / /	1			Month Day
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a protegardy indication of	L Quantity	Туре		Hesidue  Manifest Reference N	Number	Partial Re	ejection ***	Full Rejection
b. Alternate Facility (or Gene	eralor)			mailles (idicione)	34411M/5011	U.S. EPA ID	Number	
cility's Phone:	900 7 0 8 0 0 0 0 0							
c. Signature of Alternate Fac	ility (or Generator)							Month Day
. Designated Facility Owner	or Operator: Certification of receipt of	materials covered by the n	nanifest except as r	noted in Item 17a				
inted/Typed Name			Signatur					Month Day
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NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	And the second second	Page 1 of 3. Eme	ergency Response		4. Waste T	racking Numb	
Generator's Name and Mailin	GAD0542	33.7	Genera	AO4-431 - ator's Site Address		n mailing add	1256	2
Senerator's Phone:	370 Mils Roc Wayneston	od o, GA 30830		and a site risultage	in direction in			
. Transporter 1 Company Nan	ne					U.S. EPA ID	Number	
Dawis Ho Transporter 2 Company Nam						U.S. EPA ID	Numbar	
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Designated Facility Name an	I the second of the		ed Landli	B .		Ų.S. EPA ID	Number	
acility's Phone:		LBJ		10. Contai	iners	11. Total	12. Unit	
9. Waste Shipping Nam	e and Description			No.	Туре	Quantity	Wt./Vol.	
	gulated Material, ral #13-0530	Solid (Soli)		001	DT	Est. 18	anne.	3-1-3
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1	NON-HAZARDOUS 1. General NON-HAZARDOUS WASTE MANIFEST	TAD0542	23987	2. Page 1 of 3	B. Emergency Response	Phone	4. Waste T	racking Number	
	5. Generator's Name and Mailing Address Generator's Phone:	Legion Incl 370 Mils Ro	ustries, Inc. Gd 16, GA 30830		Generator's Site Address	(if different the	an mailing addre		
	5. Transporter 1 Company Name						U.S. EPA ID	Number	
L	Davis Hauling						110 EDA ID	44 - 4-	
1	7. Transporter 2 Company Name						U.S. EPA ID	Number	
	Designated Facility Name and Site Addr     Facility's Phone:				CHI		U.S. EPA ID	Number	
-					10. Conta	iners	11. Total	12. Unit	
	Waste Shipping Name and Desc	7.2	~		No.	Туре	Quantity	Wt./Vol.	
	1. Non-Regulat Approval #1		, Solid (Soli	}	001	DT	Est.	500	
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	14. GENERATOR'S/OFFEROR'S CERTIF marked and labeled/placarded, and are Generator's/Offeror's Printed/Typed Name				ele international and national				nd are classified, packaged,  Month Day Year
	IE International Chiampate	Susan Riggs on t	ehall of Legic	on inclusive Desport from U.S	Same the same		W. 1	The state of the s	16/24/13
	Fransporter Signature (for exports only):	mport to U.S.		export from U.s	S. Port of en Date leavi				
	6. Transporter Acknowledgment of Receip	ot of Materials		01					
×	Transporter 1 Printed/Typed Name Transporter 2 Printed/Typed Name	CIEJEW	oh I	Signa	schone	t wa	J. Ci.	the "	Month Day Year  Month Day Year
	77. Discrepancy 17a. Discrepancy Indication Space	Quantity	Туре		Residue	tool in	Partial Re	jection	Full Rejection
1	7b. Alternate Facility (or Generator)				Manifest Reference N	lumber;	U.S. EPA ID	Number	
I	Facility's Phone:	orator)							Mouth Day Year
	7c. Signature of Alternate Facility (or Gen	erator)			7				Month Day Year
	Designated Facility Owner or Operator:	Cartification of receipt of m	pterials covered by the	manifeet avoort	e noted in How 17a	- 2			
-	Designated Facility Owner or Operator:     Printed/Typed Name	Certification of receipt of In	aterials covered by the	Signa					Month Day Year
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WASTE MANIFEST	GAD0542	Could be used to the second of	age 1 of 3, Em	ergency Response		4. Waste I	racking Numb		
. Generator's Name and Mail	ton Address		Gener	ator's Site Address		an mailing addr		4	
	370 Mills Ro Waynesbo	ro, GA 30830	1			•			
enerator's Phone: . Transporter 1 Company Na	706-554-44 me 0/10	1.1				U.S. EPA ID	Number		
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. Transporter 2 Company Na	me					U.S. EPA ID	Number		
Designated Facility Name a	1 Production of		ad Landl	横		U.S. EPA ID	Number		
9. Waste Shipping Nan	no and Description			10. Conta	iners	11. Total	12. Unit		
The second second	37582735.467			No.	Type	Quantity	Wt./Vol.		
	gulated Materia val #13-0530	l, Solid (Soli)		001	DT	Est.	1		
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4. GENERATOR'S/OFFERO marked and labeled/placar ienerator's/Offeror's Printed/i 5. International Shipments ransporter Signature (for exp	R'S CERTIFICATION: I hereby declare ded, and are in all respects in proper of typed Names. Escara Rights can be import to U.S. onts only):	that the contents of this consi ondition for transport according perhalf of Legion to	to applicable in	dernational and nation	onal governme	ental regulation	S,	Month	Day
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4. GENERATOR'S/OFFERO marked and labeled/placar enerator's/Offeror's Printed/ 5. International Shipments ransporter Signature (for exp 6. Transporter Acknowledgm ransporter 1 Printed/Typed North Printed/Typ	R'S CERTIFICATION: I hereby declare ded, and are in all respects in proper of Typed Names, Easter Rights on I Import to U.S. onts only): ent of Receipt of Materials lame  pace Quantity  cility (or Generator)	that the contents of this considered for transport according to the transpo	signature Signature Signature Signature	Port of en Date leavi	onal governme	Partial R	ejection	Month   G	Day Day Day Full Rejection
14. GENERATOR'S/OFFERO marked and labeled/placar Generator's/Offeror's Printed/15. International Shipments 15. International Shipments 16. Transporter Signature (for explication 1 Printed/Typed Notes and Printed/Typed Note	R'S CERTIFICATION: I hereby declare ded, and are in all respects in proper of Typed Names, source Picture Ciri. I Import to U.S. norts only):  ent of Receipt of Materials lame  pace	that the contents of this considered for transport according to the transpo	signature Signature Signature Signature	Port of en Date leavi	onal governme	Partial R	ejection	Month   G	Day Day Day Full Rejection

NON-HAZARDOUS 1. Generator IR Number 5 4 2 2 3 9 8 7 2. Page 1 of 3	Emergency Response	Phone 275	4. Waste T	racking Numbe	
5. Generator's Name and Mailing Address Legion Inclusines, Inc. G 370 Milb Road Waynesbore, GA 30830 706-554-4411	enerator's Site Address	if different th	an mailing addr	ess)	
6. Transporter 1 Company Name Day's Hauling 384			U.S. EPA ID	Number	
7. Transporter 2 Company Name			U.S. EPA ID	Number	
8. Designated Facility Name and Site Address Augusta Deans Bridge Road Lands Blythe, GA 30305 Facility's Phone: Augusta Deans Bridge Road Blythe, GA 30305	ochil		U.S. EPA ID	Number	
Facility's Phone: 706-552-3200	10. Contain	2000	00000	1 12 mg 1	
9. Waste Shipping Name and Description	No.	Туре	11. Total Quantity	12, Unit Wt./Vol.	
Non-Regulated Material, Solid (Soli) Approval #13-0530	001	DT	Est.	2000	
2.					
3.					
4.					
14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable Generator's/Offeror's Printed/Typed Name  Signal Suscin Riggs on behalf of Legion Industries	le international and natio ture	nal governme	ental regulations	hipping name, a	Month Day
5. International Shipments Import to U.S. Export from U.S.	To make the word	***	-5-3	-1-	16 21 1
6. Transporter Acknowledgment of Receipt of Materials  Fransporter 1 Printed/Typed Name  Signal  Fransporter 2 Printed/Typed Name  Signal	But	16	PEUN	(	Month Day   B   Z     I   Month Day
7. Discrepancy 7a, Discrepancy Indication Space Quantity Type	Residue		Partial Re	ejection	Full Rejection
7b. Alternate Facility (or Generator)	Manifest Reference N	umber:	U.S. EPA ID	Number	
Facility's Phone:			1		
Trc. Signature of Alternate Facility (or Generator)					Month Day
<ol> <li>Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as Printed/Typed Name</li> </ol>					Month Day
Signati	iui d				Month Day

WASTE MANIFEST	1. Generator ID Number	4223987	2. Page 1 of 3	Emergen 3 esponse		4. Waste T	racking Numi	
5. Generalor's Name and Maili	ng Address Legion 370 Mils	Industries, Inc.	G	enerator's Site Ao.25	(if different tha	an mailing addr	ess)	,,
Generator's Phone: I. Transporter 1 Company Nan	70e-55d					U.S. EPA ID	Mumbas	
Cransporter i Company Nan	iuling 257					U.S. EPAID	Number	- 1
. Transporter 2 Company Nan	ne e			7		U.S. EPA ID	Number	·
. Designated Facility Name an	4330 D	ia Dears Bildge F eans Bildge Roar GA 30805		rc#i#		U.S. EPA ID	Number	
9. Waste Shipping Nam		in the Color		10. Conta	ainers	11. Total	12. Unit	
				No.	Туре	Quantity	Wt./Vol.	
	gulated Mate al #13-0530	rial, Solid (Soli)		001	DT	Est. 18	7	
2.					3-	-		1-11-
3.								
4.								
	_							
3. Special Handling Instruction	ns and Additional Information Cormental Lob #130	1392						ž.
A&D Envár		eclare that the contents of this c	rding to applicab	le international and nati	scribed above bional governme	ntal regulations	nipping name,	Month Day
A&D Envir	enmental Job # 130  a's CERTIFICATION: I hereby dided, and are in all respects in property of Name Suscent Riggs at Import to U.S.	eclare that the contents of this c per condition for transport accor on bethulf of Legion	rding to applicab	le international and nati ture  Port of er	ional governme	ntal regulations		
4. GENERATOR'S/OFFEROR marked and labeled/placard enerator's/Offeror's Printed/T; 5. International Shipments ransporter Signature (for expo	a's CERTIFICATION: I hereby dided, and are in all respects in proposed Name Suscen Riggs of Import to U.S. orts only):	eclare that the contents of this c per condition for transport accor on bethulf of Legion	rding to applicab	le international and nati	ional governme	ntal regulations		Month Day
A&D Emdr  GENERATOR'S/OFFEROR marked and labeled/placard enerator's/Offeror's Printed/Tr  International Shipments ransporter Signature (for expo	R'S CERTIFICATION: I hereby dided, and are in all respects in proyped Name Structh Rights of Import to U.S. onto only):  ent of Receipt of Materials arms	eclare that the contents of this c per condition for transport accor on bethulf of Legion	export from U.S.	le international and nati ture  Port of er  Date leav	ional governme	ntal regulations		Month Day
A&D Emdr  GENERATOR'S/OFFEROR marked and labeled/placard enerator's/Offeror's Printed/Tr  International Shipments ransporter Signature (for expo	R'S CERTIFICATION: I hereby dided, and are in all respects in proyped Name Structh Rights of Import to U.S. onto only):  ent of Receipt of Materials arms	eclare that the contents of this coper condition for transport according to the second or best wife of Legion	rding to applicab	le international and nati ture  Port of er  Date leav	ional governme	ntal regulations		Month Day
A&D Emdr  GENERATOR'S/OFFEROR marked and labeled/placard enerator's/Offeror's Printed/Ty  International Shipments ransporter Signature (for expo	R'S CERTIFICATION: I hereby dided, and are in all respects in proyped Name Structh Rights of Import to U.S. onto only):  ent of Receipt of Materials arms	eclare that the contents of this coper condition for transport according to the second or best wife of Legion	export from U.S.	le international and nati ture  Port of er  Date leav	ional governme	ntal regulations		Month Day / / / / / / / / / / / / / / / / / / /
A&D Emdr  GENERATOR'S/OFFEROR marked and labeled/placard enerator's/Offeror's Printed/Ty  International Shipments ransporter Signature (for expo Transporter Acknowledgments ransporter 1 Printed/Typed National Shipments ransporter 2 Printed/Typed National Shipments ransporter 2 Printed/Typed National Shipments ransporter 2 Printed/Typed National Shipments ransporter 2 Printed/Typed National Shipments ransporter 2 Printed/Typed National Shipments ransporter 2 Printed/Typed National Shipments	R'S CERTIFICATION: I hereby dided, and are in all respects in proposed Name Suscan Riches dided in the company of the U.S. orts only):  ent of Receipt of Materials arme	eclare that the contents of this coper condition for transport according to the second or best wife of Legion	export from U.S.	le international and nati ture  Port of er  Date leav	ional governme	ntal regulations	74	Month Day / / / / / / / / / / / / / / / / / / /
4. GENERATOR'S/OFFEROR marked and labeled/placard generator's/Offeror's Printed/Type. 5. International Shipments transporter Signature (for expose). Transporter Acknowledgmentansporter 1 Printed/Typed National Spiransporter 2 Printed/Typed National Spi	R'S CERTIFICATION: I hereby dided, and are in all respects in proyped Name Structh Richts of Import to U.S. onto only):  and Alexander of Materials arms  Alexander of Ouantity	eclare that the contents of this coper condition for transport according to be half of Laglor	export from U.S.	le international and nati ture  Port of er  Date leav  ture	ntry/exit:	Parlial Re	jection	Month Day   2   2       Month Day   C   2
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4. GENERATOR'S/OFFEROR marked and labeled/placard denerator's/Offeror's Printed/Type 5. International Shipments ransporter Signature (for expo 6. Transporter Acknowledgme ransporter 1 Printed/Typed Natarasporter 2 Printed/Typed Natarasporter 2 Printed/Typed Natarasporter 2 Printed/Typed Natarasporter 2 Printed/Typed Natarasporter 2 Printed/Typed Natarasporter 2 Printed/Typed Natarasporter 2 Printed/Typed Natarasporter 2 Printed/Typed Natarasporter 2 Printed/Typed Natarasporter 2 Printed/Typed Natarasporter 2 Printed/Typed Natarasporter 3 Pr	R'S CERTIFICATION: I hereby de ded, and are in all respects in properties only):  Import to U.S. borts only):  Int of Receipt of Materials arme  ace Quantity	eclare that the contents of this coper condition for transport according to be half of Laglor	export from U.S.	le international and nati	ntry/exit:	Parlial Re	jection	Month Day   2   2       Month Day   C   2
4. GENERATOR'S/OFFEROR marked and labeled/placard enerator's/Offeror's Printed/Ty 5. International Shipments ransporter Signature (for expo 6. Transporter Acknowledgme ransporter 1 Printed/Typed Na 7. Discrepancy 7a. Discrepancy Indication Sp 7b. Alternate Facility (or Gene	R'S CERTIFICATION: I hereby de ded, and are in all respects in properties only):  Import to U.S. borts only):  Int of Receipt of Materials arme  ace Quantity	eclare that the contents of this coper condition for transport according to be half of Laglor	export from U.S.	le international and nati	ntry/exit:	Parlial Re	jection	Month Day   2   2       Month Day   C   2       Month Day   Full Rejection
4. GENERATOR'S/OFFEROR marked and labeled/placard generator's/Offeror's Printed/Typed No. 1. International Shipments ransporter Signature (for expose. Transporter 1 Printed/Typed No. 1. International Shipments ransporter 1 Printed/Typed No. 1. International Shipments ransporter 2 Printed/Typed No. 1. International Spiritual Shipments (for expose 1. International Spiritual Shipments) (and in the shipments) (and in the shipments) (by Shipments) (by Shipments) (c) Signature of Alternate Facility's Phone:	R'S CERTIFICATION: I hereby de ded, and are in all respects in properties only):  Import to U.S. borts only):  Int of Receipt of Materials arme  ace Quantity	eclare that the contents of this coper condition for transport according to the plant of the pla	Export from U.S. Signa	le international and natiture  Port of er Date leav  ture  Residue  Manifest Reference I	ntry/exit:	Parlial Re	jection	Month Day   2   2       Month Day   C   2       Month Day   Full Rejection

NON-HAZARDOUS 1.0 WASTE MANIFEST	Generator A Number 5 4	223987	2. Page 1 of 3.	Emergency Response	2951	4. Waste 1	racking Num	nber	
5. Generator's Name and Mailing Ad	370 MILS R	ofo, CA 20830	G	enerator's Site Address	(if different the	n mailing add	ress)		
Senerator's Phone: . Transporter 1 Company Name	TON-DON-A	49.1.2				U.S. EPA ID	Number		
Davis Haul	Ing								
Transporter 2 Company Name						U.S. EPA ID	Number		
Designated Facility Name and Sit	4330 Dec	Dears Bridge Foo ans Bridge Roo A 30805		rdfi#		U.S. EPA ID	Number		
		WELCO.		10. Conta	iners	11. Total	12. Unit		
Waste Shipping Name and				No.	Type	Quantity	Wt./Vol.		
	ulated Materia #13-0530	al, Solid (Soli)		001	DT.	Est.	- Special Control of the Control of		
2.					ė				
3.									
4,									
	d Additional Information mentical Job #13039	72							
AS D Environi  GENERATOR'S/OFFEROR'S C marked and labeled/placarded, a	ERTIFICATION: I hereby decla	are that the contents of this condition for transport acco	ording to applicabl	le international and nation	onal governme	y the proper s	hipping name	a, and are clas	th Day
A&D Erndroni  I. GENERATOR'S/OFFEROR'S C marked and labeled/placarded, a enerator's/Offeror's Printed/Typed  5. International Shipments	ERTIFICATION: I hereby declared are in all respects in proper Name Suscen Flogs on	are that the contents of this of condition for transport according to the hold of Legion	ording to applicabl	le international and national ture  Port of en	onal governme	y the proper s	hipping name		
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NON-HAZARDOUS	Generator ID Number		of 3, Emergency Response		4. Waste 1	racking Number	er
WASTE MANIFEST	GAD05422	3987	1 404-431	-2951		12569	>
Generator's Name and Mailing Generator's Phone: 6. Transporter 1 Company Name Days Hau 7. Transporter 2 Company Name	370 Mills Road Waynesbore, 706-554-4411	t:	Generator's Site Address	(ii umerem in	U.S. EPA ID	Number	
7. Hansponer 2 Company Name					U.O. E. A IO	Humber	
Designated Facility Name and     Facility's Phone:	1 the special car to the		Lanciliii		U.S. EPA ID	Number	
9. Waste Shipping Name a	and Description		10. Conta	iners	11. Total	12. Unit	
p 0. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.			No.	Туре	Quantity	Wt./Vol.	
Approve	julated Material, S al #13-0530	iolid (Soll)	001	DT	Est. 18	7	
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marked and labeled/placarded Generator's/Offeror's Printed/Type	S CERTIFICATION: I hereby declare that it, and are in all respects in proper condit ed NameSuscan Riggs on bei	ion for transport according to a	plicable international and national	onal governme	ntal regulation		Month Day Y
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6. Transporter Acknowledgment ransporter 1 Printed/Typed Nam ransporter 2 Printed/Typed Nam	Mughton		Signature	1/4	150	1	Month Day Y
			2				
Discrepancy     Indication Space     Annual Space	e Quantity	Туре	Residue	Lumber	Partial R	ejection	Full Rejection
7b. Alternate Facility (or Generat	tor)		Manifest Reference N	vumber:	U.S. EPA ID	) Number	
acility's Phone:							
7c. Signature of Alternate Facility	y (or Generator)	Ve son t				-	Month Day Y
							100
Designated Facility Owner or or or or or or or or or or or or or	Operator: Certification of receipt of mater	ials covered by the manifest ex					Mante
TIFRED/Typed Ivame			Signature				Month Day Y

NON-HAZARDOUS WASTE MANIFEST	i. General Mullion	54223987		3. Emergency	4-431	-2951	4. Waste I	racking Nur	70
5. Generator's Name and Mailin	370 f Way 706-4	on inclustries, inc. Wills Road neuboro, GA 3083 554-4411	0	Generator's Si	ite Address	(if different th	an mailing addr	ress)	1.5
3. Transporter 1 Company Nam	ivling 254	/		9			U.S. EPA ID	Number	
. Transporter 2 Company Nan	The second secon						U.S. EPA ID	Number	
Designated Facility Name an     Facility's Phone:	433 Blyt	gusta Deans Bridge Deans Bridge Ro he, GA 30805 -592-3200		crediti			U.S. EPA ID	Number	
9. Waste Shipping Nami					10. Conta		11. Total	12. Unit	
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WASTE MANIFEST	1. Generator ID Number GAD0542	Total Control	1	3. Emergency Response		4. Waste 1	racking Numb	
Generator's Name and Mailin	ing Address Legion Inclu 370 Mills Roo	istries, Inc.	G	Generator's Site Address		an mailing addr		F
enerator's Phone: Transporter 1 Company Nan	70%-55A-441					U.S. EPA ID	Number	
Daws Ho						U.O. L. 11	Millioei	
Transporter 2 Company Nan					- 6	U.S. EPA ID	Number	
. Designated Facility Name an	the september of the	ears Bridge I	Road Lar	k:fill		U.S. EPA ID	Number	
acility's Phone:	4330 Dean Blythe, GA 706-592-32		d					
9. Waste Shipping Name	ne and Description			10. Conta		11. Total	12. Unit	
110000000000000000000000000000000000000		made levell		No.	Туре	Quantity	Wt./Vol.	
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A&D Envir	ronmental tob #120392							
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WASTE MANIFEST	1. Generalor A Nimber 5 4		2. Page 1 of 3	3. Emergency Response	Phon951	4. Waste T	racking Number	2
Generator's Name and Maili  Generator's Phone:	370 Mils R	oro, GA 30830		Generator's Site Address	(if different tha	an mailing addr	ess)	
6. Transporter Company Nar	Juling					U.S. EPA ID	Number	
7. Transporter 2 Company Nar	ne					U.S. EPA ID	Number	
Designated Facility Name as	Augusta 4330 Dec Blythe, C 706-592-3		Road ta Kl	rdiii		U.S. EPA ID	Number	
facility's Phone:	1,161,161,161	196341		10. Conta	iners	11 Total	10 Heli	
9. Waste Shipping Nam	e and Description			No.	Туре	11. Total Quantity	12. Unit Wt./Vol.	
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Generator's/Offeror's Printed/T	Suscin Piggs on I	behalf of Legior	n Inclusine	and the same of th	赵太 [ · ·	· wing	and a transfer of the same	
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NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	Control of the second s	2. Page 1 of	3. Emergency Response		4. Waste T	racking Numb	
WASTE MANIFEST 5. Generator's Name and Mailir	GAD0542  Ig Address Legion Inc.  370 Mills Ro	ustries, Inc.	11	404-431 Generator's Site Address		an mailing add	1257; ress)	3
enerator's Phone;	Woynesbo 704-554-44	ro, GA 30930	1					
Transporter 1 Company Nam Dakis Ho						U.S. EPA ID	Number	
. Transporter/2 Company Nam	ie ie					U.S. EPA ID	Number	
5 F . W. N	10% 114%			100		110 504 10		
Designated Facility Name an activity's Phone:	The state of the s			ricliill		U.S. EPA ID	Number	
9. Waste Shipping Name	and Description			10. Conta		11. Total	12. Unit	
7-5-5-6-G-0-6-G-6	gulated Materia	Called Icain		No.	Туре	Quantity	Wt./Vol.	
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ansporter 1 Printed/Typed Na	+97 F5		17	ature	120	ry	3-	Month Day
ansporter 2 Printed/Typed Na	me	7.61	Sign	ature		1		Month Day
Discrepancy								
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b. Alternate Facility (or Gener	rator)			Manifest Reference f	vuinber:	U.S. EPA ID	) Number	
cility's Phone: c. Signature of Alternate Faci	lity (or Generator)							Month Day
e. Signature of Allemate Fact	, En manager							Day
	Part Land		-1					
. Designated Facility Owner of inted/Typed Name	r Operator: Certification of receipt of	naterials covered by the ma	nifest except a	13 (2018) 21 10 22 11 1 10				Month Day
innearlypouridine			Signi	ALMI S				Monin Day

. Generator's Name and Maili			1	3. Emergeocy Response	-2951		racking Nu	74	
	370 Mili	sboro, GA 30830		Generator's Site Address	(if different the	an mailing add	ress)		~
Generator's Phone: Transporter 1 Company Nar DOMS Ho	ne ne					U.S. EPA ID	Number		
						U.S. EPA ID	Monhas		
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9. Waste Shipping Nam				10. Conta	iners	11. Total	12. Unit	000	*
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