51025

AECOM

Summary of Investigation Efforts
Shakespeare Composite Structures, LLC
Newberry, South Carolina

SCDHEC Site ID # 51025

Shakespeare Composite Structures, LLC (Shakespeare) operates a fiberglass product design and manufacturing facility at 19845 US Highway 76 in Newberry, South Carolina (the Site). Figure 1 shows the location of the Site. Between December 2013 and February 2014, Shakespeare and AECOM Technical Services, Inc. (AECOM) performed a Phase I Environmental Site Assessment (Phase I ESA) and Phase II ESA related efforts to identify and investigate potential environmental impacts at the facility. The Phase II ESA efforts identified concentrations of chlorinated volatile organic compounds (CVOCs) in soil and groundwater beneath the facility. As a result of the Phase II ESA findings several phases of investigation both on and surrounding the facility have been performed to identify source areas and to determine the extent of the CVOCs in groundwater.

This document serves as a brief summary of the investigative efforts performed since the inception of the Phase II ESA, including the subsequent Site Investigation (SI). This document presents a brief summary of the results of the investigative efforts performed to date.

Description of Investigation Efforts

In January 2014, AECOM initiated the Phase II ESA at the Shakespeare facility in Newberry, SC. The Phase II ESA included the following:

- Installation and sampling of eight shallow temporary monitoring wells (TMW-1 through TMW-8)
- Collection and analysis of four surface soil samples;
- Collection and analysis of 15 subsurface soil samples;
- Collection of a sediment sample from a storm water drain in the eastern portion of the property (REC-7a); and
- Collection of a sediment and surface water sample from the storm water outfall located on the northwestern side of the property (REC-7b).

Figure 2 illustrates the locations from which all soil samples have been collected from the site to date. Figure 3 illustrates the locations from which groundwater samples have been collected from the site to date.

Following review of the Phase II ESA, AECOM and Shakespeare developed a Site Investigation Work Plan (SI Work Plan) that outlined the rationale for performing additional investigative efforts and the technical approaches that were to be used to collect additional data from the Site. The initial phase of the SI was implemented in April 2014. The SI has since included multiple phases of investigative work. The following activities were performed as part of the initial phase of the SI:

- Collection of additional subsurface soil samples from Phase II ESA boring locations B-12, B-13, and B-16. The intent of this phase of soil sampling was to focus on potential source areas based on their historical use and results from the Phase II ESA sampling efforts in these areas. Field personnel utilized the Color-Tec™ field screening tool to determine which two subsurface samples from each boring would be submitted for chemical analysis. The results for the subsurface soil samples are discussed later in this summary.

- Installation and sampling of 10 shallow temporary monitoring wells (TMW-9 through TMW-18). The additional temporary wells were installed at these locations in an attempt to delineate the horizontal extent of CVOC impact on the facility property.
- Installation of nine permanent monitoring wells (MW-1 through MW-9). Each of these wells was installed as replacements for temporary wells.

The second phase of the SI was implemented in late May 2014. It included the advancement of numerous soil borings, field screening of soil samples, collection of soil samples for laboratory analysis, and installation and sampling of temporary and permanent monitoring wells. More specifically, the second phase of the SI included the following:

- Advancement of 28 soil borings at locations within and adjacent to the main production building and the pole winder building at the facility. The soil borings allowed collection of continuous subsurface soil cores from land surface to approximately 25 feet or drilling refusal. Soil samples were collected at one to two foot intervals and evaluated using the Color-Tec™ field screening tool to determine which three to four samples from each boring would be submitted for chemical analysis (Figure 2).
- Installation of 15 shallow temporary monitoring wells to further delineate source areas and boundaries for elevated CVOC concentrations in groundwater (Figure 3).
- Collection of groundwater samples from four existing permanent monitoring wells for additional chemical and biological analyses to determine the extent of natural attenuation conditions beneath the Site.
- Collection of samples from seven private water supply wells located around the Site.

Following a brief meeting with the SCDHEC representatives in June 2014 to present results of the investigative efforts to date, AECOM and Shakespeare implemented an Expanded Investigation at the Site. This included an additional phase of groundwater investigation both on-site and off-site, sampling multiple depth zones at locations on- and off-site in an attempt to delineate the extent of CVOCs in groundwater (Figure 3). This phase of the investigation included the use of the Color-Tec™ Kit to screen groundwater samples as they were collected for the presence of CVOCs. Color-Tec™ field screening results were used to guide the sampling efforts both vertically and horizontally. This investigation effort was implemented in mid-July 2014 and completed in late August 2014. More specifically this investigation included the following:

- Collection of shallow and intermediate depth groundwater samples from 12 locations (TMW-34 through TMW-41, TMW-101 through TMW-105) on private properties to the west of the Shakespeare facility;
- Collection of shallow and intermediate depth groundwater samples from 57 locations (TMW-42 through TMW-99) on property that bounds the northern side of the Shakespeare facility;
- Collection of groundwater samples from intermediate depth intervals at seven locations (TMW-44, TMW-45, TMW-46, TMW-47, TMW-48, TMW-49, TMW-50, TMW-51, TMW-100, and TMW-106) beneath the Shakespeare property;
- Installation and sampling of four deep bedrock wells on the Shakespeare property (MW-2D, MW-3D, MW-6D, MW-7D);
- Installation and sampling of two deep bedrock wells on private property west of the Shakespeare facility (RDW-1 and RDW-2); and

- Collection of three surface water samples (SW-1, SW-2, SW-3) from a small creek that bounds the northern end of the groundwater sampling grid on the property that bounds the northern side of the Shakespeare facility (Figure 3).

Summary of Results

Results of the investigative efforts to date have indicated the following:

- The geology and hydrogeology of the area is relatively complex. Lithologic information collected during the investigative efforts has been used to generate three cross sections. The orientation of the locations is depicted on Figure 3. Figures 4 through 6 are cross sections illustrating the lithologic information collected during the investigative efforts completed to date. The majority of the Shakespeare property is underlain by a layer of fill, likely added at the time of the facility's construction. This is underlain by what is termed a residuum consisting of more severely weathered native saprolite. The residuum materials consist primarily of silts and sands with what appears to be some relict granitic structure at increasing depths. The residuum is underlain by saprolite with intervals of partially weathered granite at various depths. The saprolite and partially weathered rock (PWR) is underlain by fine grained granite, called the Newberry Granite. The surface of the competent granite is encountered at varying depths throughout the area, which is demonstrated in the core logs developed while the deep bedrock wells were installed during this investigation. Granite outcrops are visible at several locations at the Shakespeare facility and on surrounding properties.
- Groundwater elevation data has been collected from temporary and permanent monitoring wells installed during the investigation. It should be noted that the elevation data was collected over a period of several days. This data for the shallow zone is not from a synoptic elevation measurement event since many of the temporary well locations were not simultaneously present. As illustrated in Figure 7, the direction of groundwater flow in the shallow zone is generally to the west across the site. There is a northwestern flow component in the shallow zone beneath the private property to the north that appears to be following variations along the top of shallow bedrock or shallow zones of less permeable PWR. There is a slight southwestern flow component in the shallow zone beneath the private properties to the west of the Site.
- Figure 8 is a potentiometric surface map generated using data from the deep bedrock wells. As illustrated on Figure 8, the direction of flow in the bedrock formation is to the west-southwest.
- The investigation efforts completed to date have determined that CVOCs are present in soil and groundwater beneath the Site. Tables 1 through 3 summarize the VOC concentrations in soil samples collected from the site since investigative efforts were initiated. Soil sample results are summarized in these tables based on the areas from where they were collected. As indicated in the soil summary tables, none of the detected parameters exceed their respective residential or industrial regional screening levels (RSLs). However, it is noted that a limited number of the VOCs exceed their respective soil screening levels (SSLs) in at least one soil sample. Figures 9 through 11 illustrate the distribution of total VOC concentrations in soil samples collected from the Site.
- CVOCs are present above federal drinking water standards (MCLs) in groundwater beneath the site. Tables 4 through 6 summarize the VOC results for groundwater samples collected from the site since the inception of the investigative efforts. Figures 12 through 14 are isoconcentration maps depicting the extent of trichloroethene (TCE), cis-1,2-dichloroethene (cis-1,2 DCE), and vinyl chloride (VC) concentrations in the shallow groundwater.

- Elevated TCE concentrations are present in bedrock beneath the Site and to the west. Figure 15 show the locations of the TCE concentrations in bedrock well groundwater samples. Table 6 summarizes the results of the bedrock samples collected during this investigation.
- Results of chemical and biological testing for various parameters indicate natural degradation of the CVOCs is occurring beneath the Site. Table 7 summarizes the results of the limited testing performed at the Site to date for those parameters.
- Three of the water supply wells sampled during the investigative efforts have been found to contain TCE concentrations that exceed the drinking water standard. Figure 16 shows the locations of the water supply wells sampled during the investigative efforts. Table 8 summarizes the results of the water well sampling efforts performed to date.
- The CVOC cis-1,2 DCE was detected in surface water sample SW-1 only, at an estimated concentration of 0.51 ug/L. This sample was collected beyond the northwest edge of the northern property sampling grid. Table 9 summarizes the surface water sample analytical results. No other CVOCs were detected in the surface water samples.

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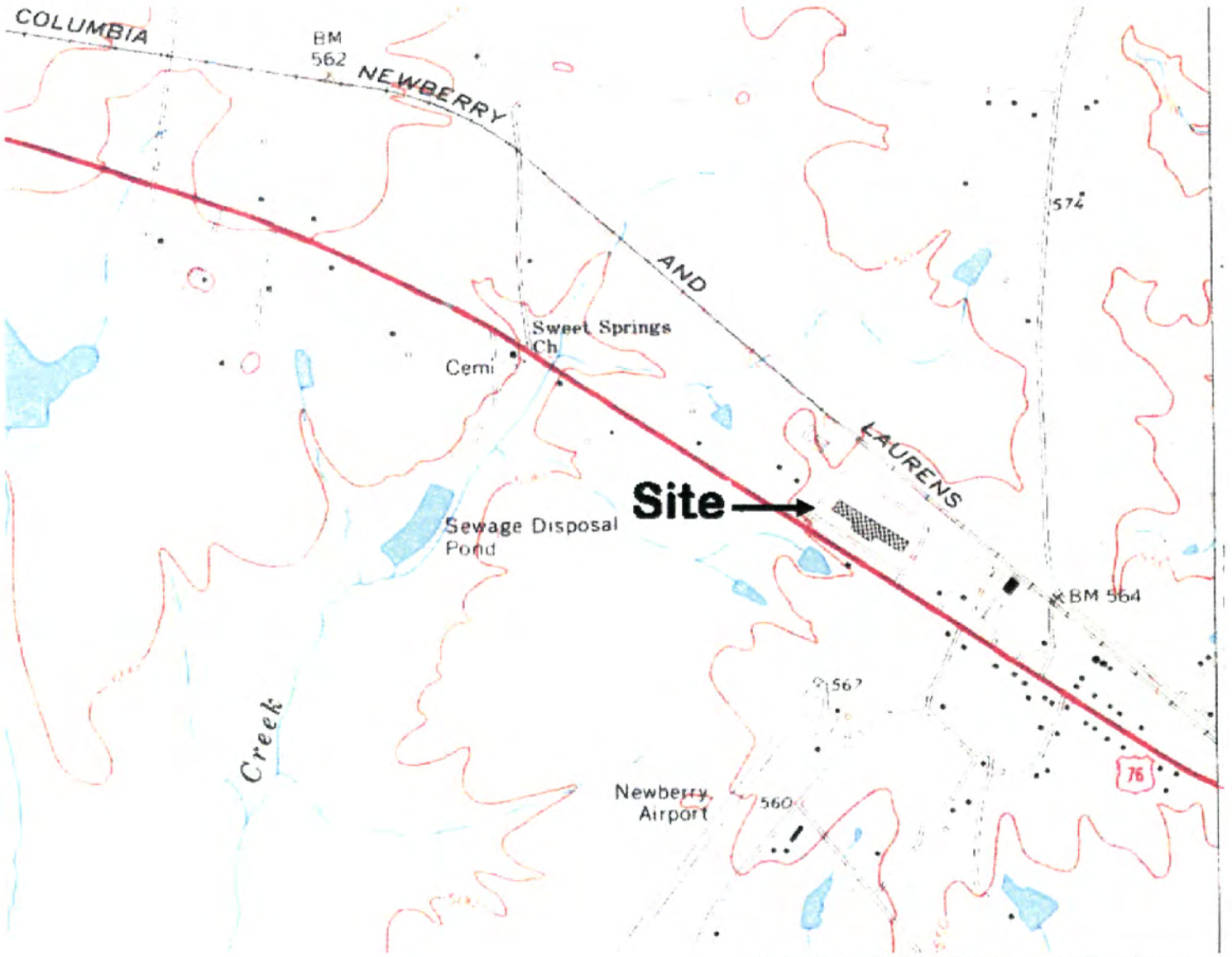
FIGURES



Modified from: USGS, Newberry West Quadrangle, 1969

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Figure 1
Site Location
Shakespeare Composite Structures, LLC, Newberry, SC

Legend

- Permanent Monitoring Well location
- Soil Boring/Sampling Location

Map Projection:
NAD 83
South Carolina State Plane, Feet
Fips3900

Datum:
North American 1983

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Soil Boring/Sampling Locations

Shakespeare Composite Structures
Newberry, South Carolina

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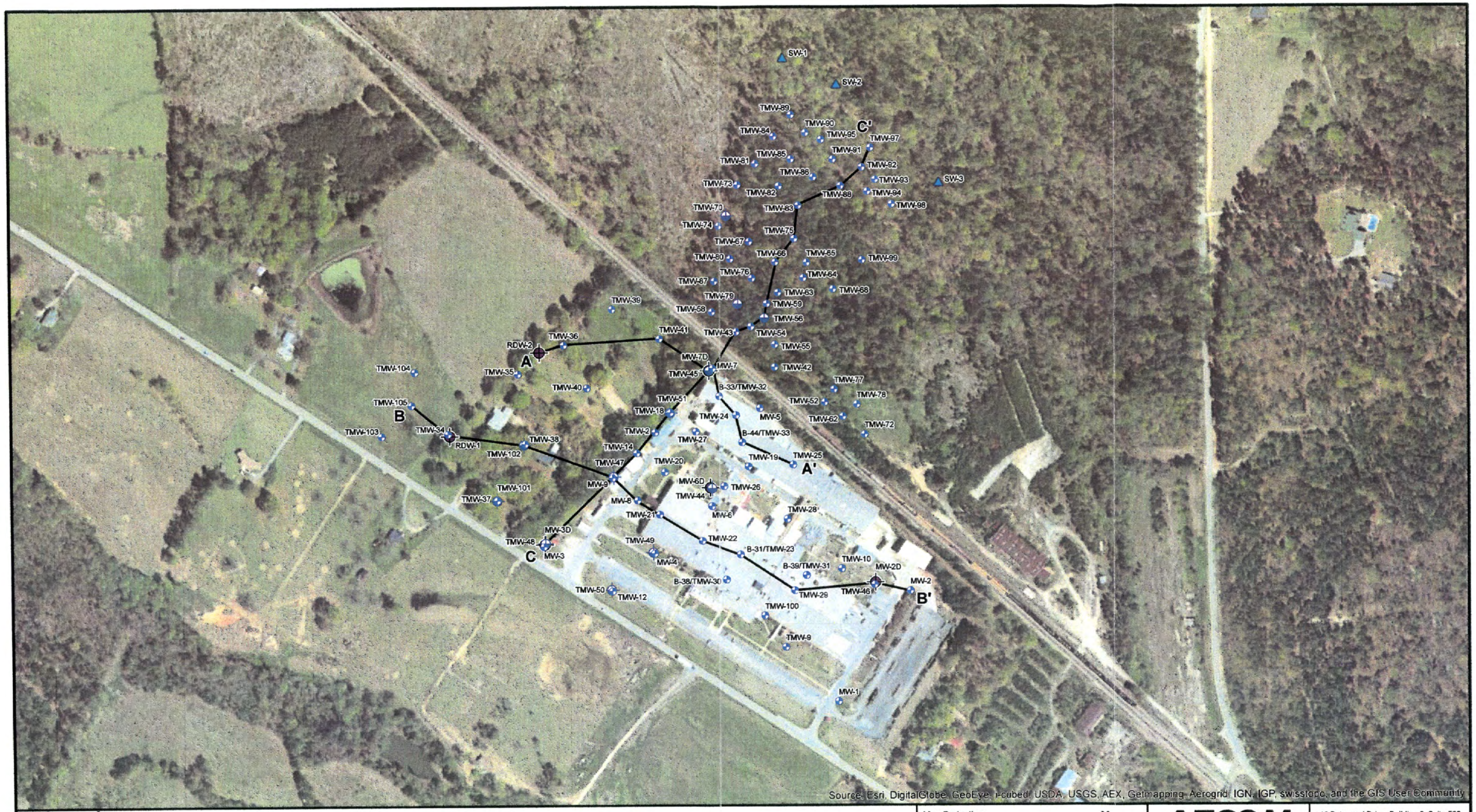
60164311	RJS	6/20/2014	**Figure 2**

Document Path: L:\Group\earth\60318382 Shakespeare Composites\GIS\Maps\60318382_004 Soil Boring Locations.mxd



Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

Legend

- Shallow Zone Monitoring Well
- Intermediate Zone Monitoring well
- Deep Zone Monitoring Well
- Surface Water Locations
- Cross Section Location

Map Projection:
NAD 83
South Carolina State Plane, Feet
Fips3900

Datum:
North American 1983

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Groundwater and Surface Water Sample Locations

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Newberry, South Carolina

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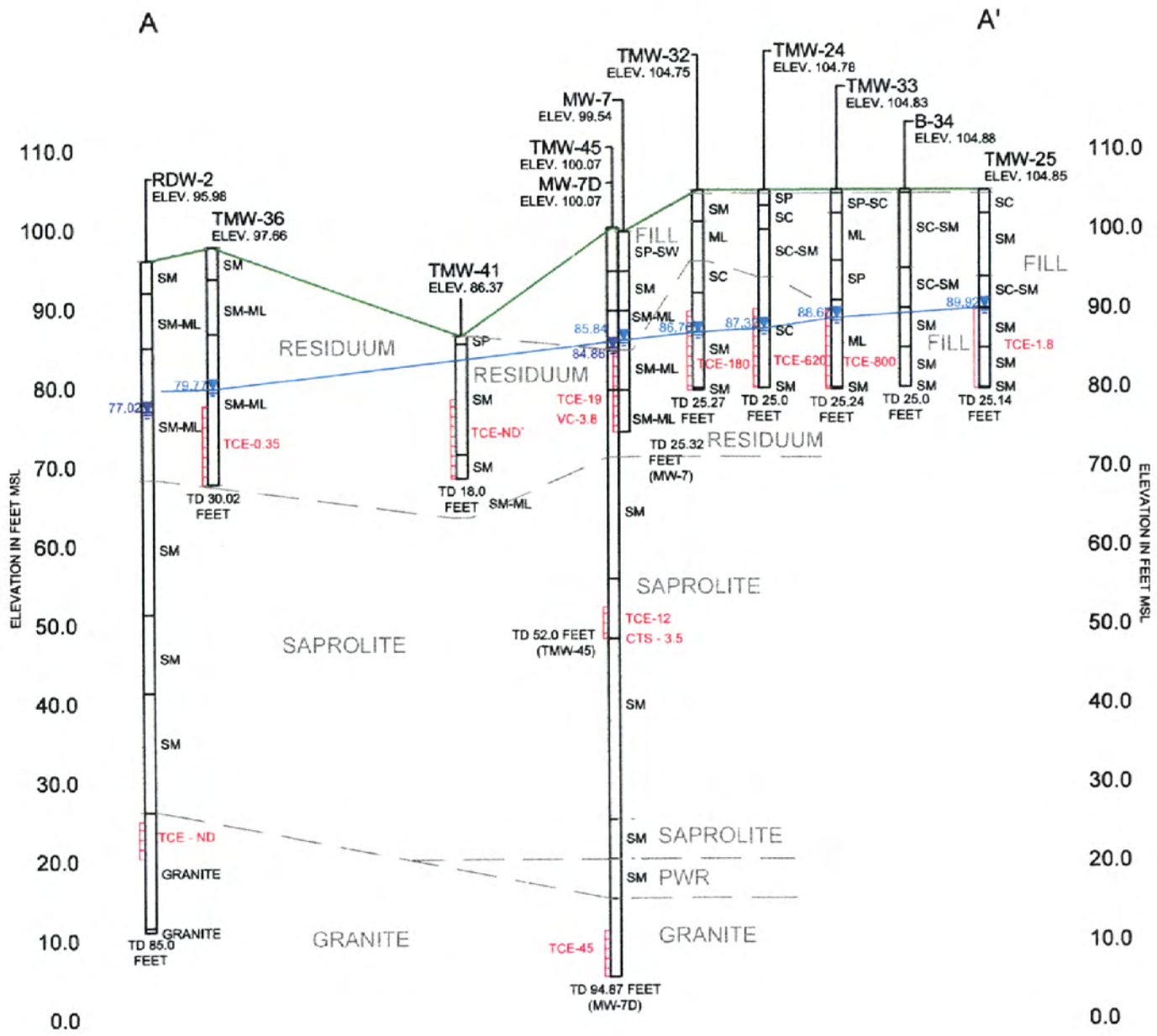
60328308	RJS	9/15/2014	**Figure 3**

Document Path: L:\Group\earth\60318382 Shakespeare Composites\GIS\Maps\60318382_013 Cross Section Locations.mxd



CTS - Color Tec Field Screening Result (Total CVOC concentration in milligrams per liter - mg/L)
TCE - Trichloroethene concentration (in micrograms per liter - ug/L)

0 100 200 400 600
HORIZONTAL SCALE IN FEET

0 10 20 40 60
VERTICAL SCALE IN FEET

Vertical Exaggeration = 10X

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Cross Section A-A'

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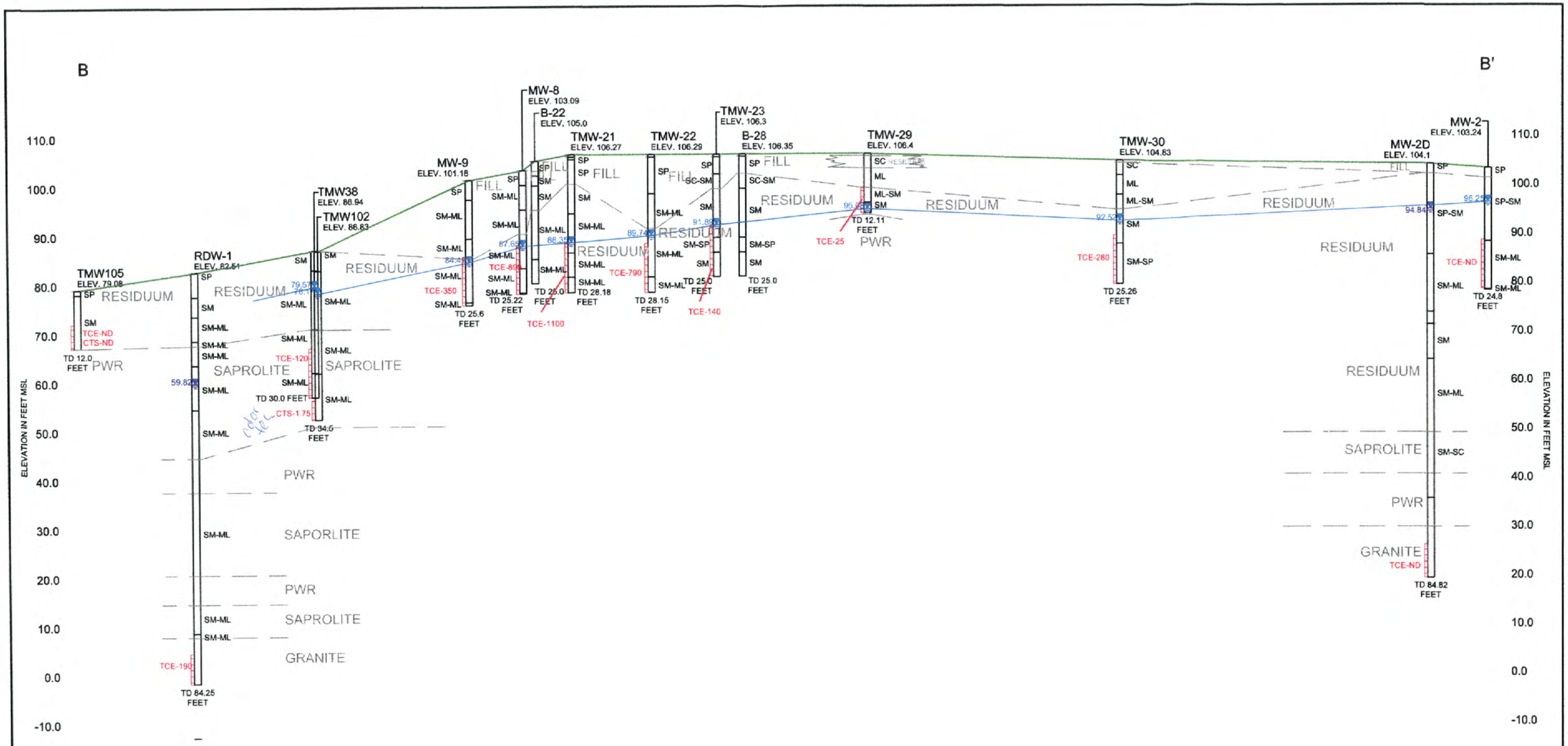

CTS - Color Tec field screening results (Total CVOC concentrations in milligrams per liter - mg/L)

TCE - Trichloroethene concentration (in micrograms per liter - ug/L)

0 100 200 400 600

HORIZONTAL SCALE IN FEET

0 10 20 40 60

VERTICAL SCALE IN FEET

Vertical Exaggeration = 10X

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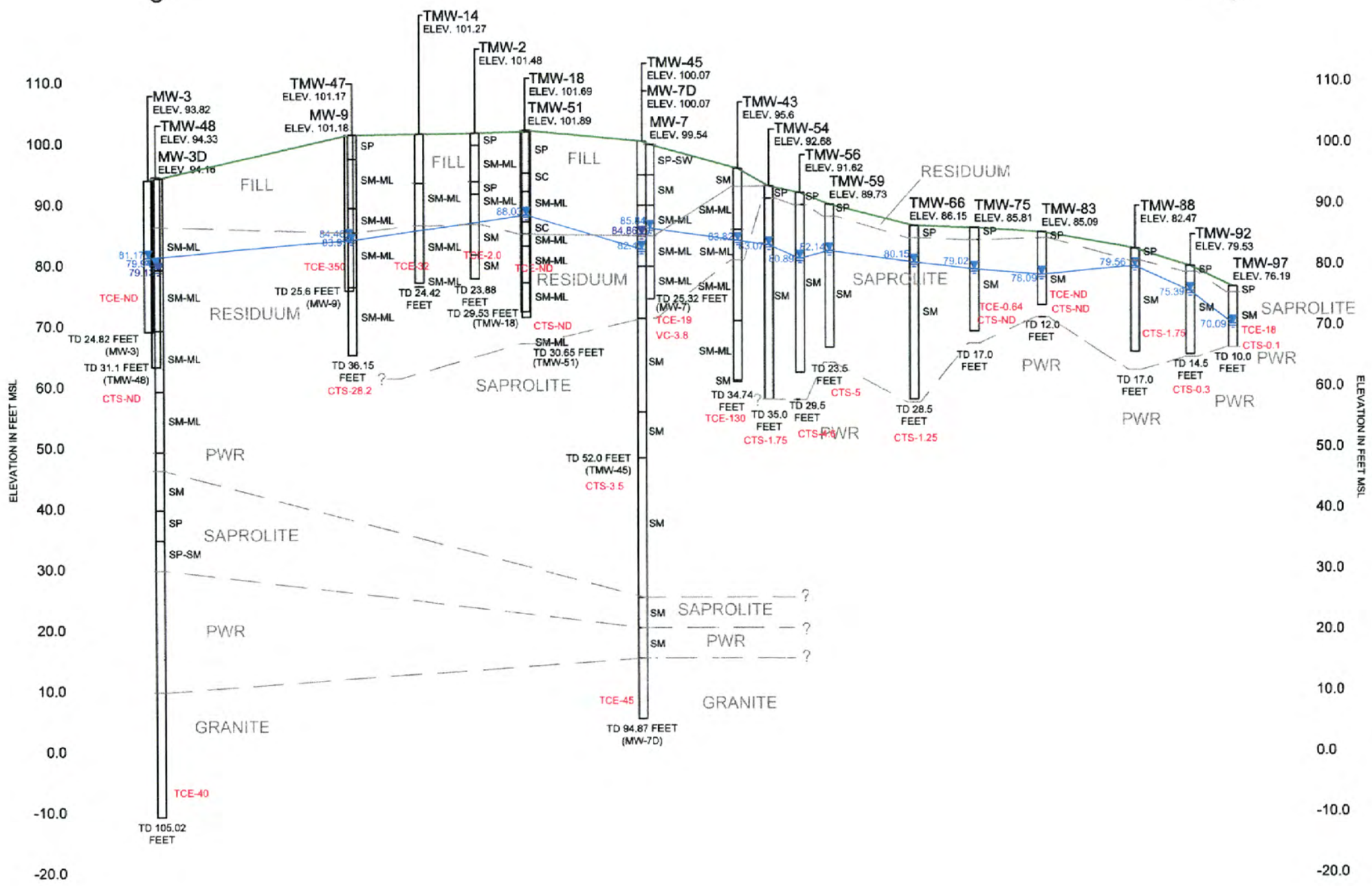
Cross Section B-B'

PROJECT NO.	DRAWN BY:	DATE:	Figure 5



CTS - Color Tec Field Screening Result (Total CVOC concentration in milligrams per liter - mg/L)
TCE - Trichloroethene concentration (in micrograms per liter-ug/L)

0 100 200 400 600
HORIZONTAL SCALE IN FEET

0 10 20 40 60
VERTICAL SCALE IN FEET

Vertical Exaggeration = 10X

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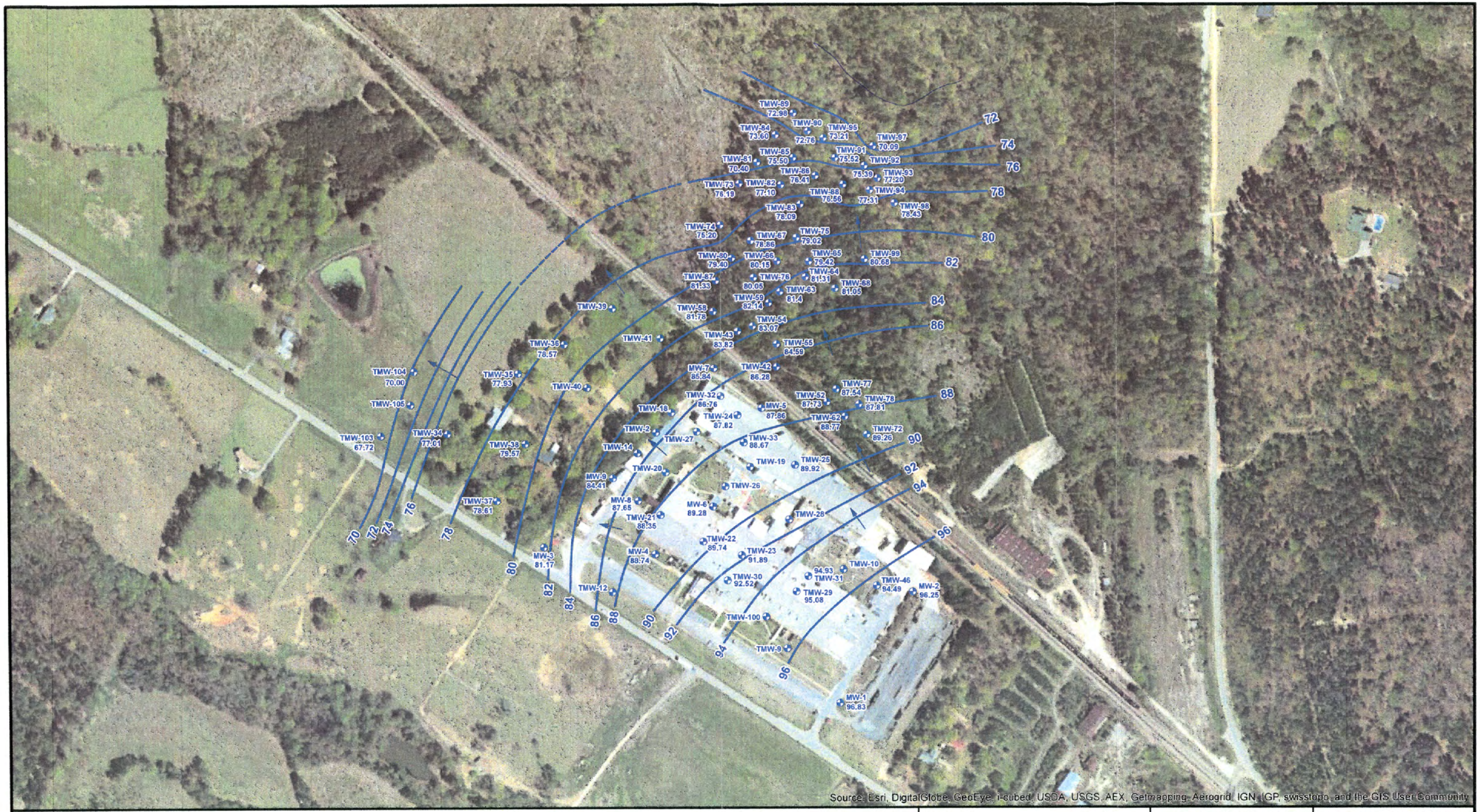
Cross Section C-C'

PROJECT NO.	DRAWN BY:	DATE:	Figure 6



Legend

- Monitoring Well Location
- Shallow Groundwater Contour (FT. MSL)
- Inferred Shallow Groundwater Contour (FT. MSL)
- 88.74 Groundwater Elevation (Ft. MSL)
- Direction of Groundwater Flow

Map Projection:
NAD 83
South Carolina State Plane, Feet
Fips3900

Datum:
North American 1983

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Groundwater Elevation Contour Map in the Shallow Zone September 2014

Shakespeare Composite Structures
Newberry, South Carolina

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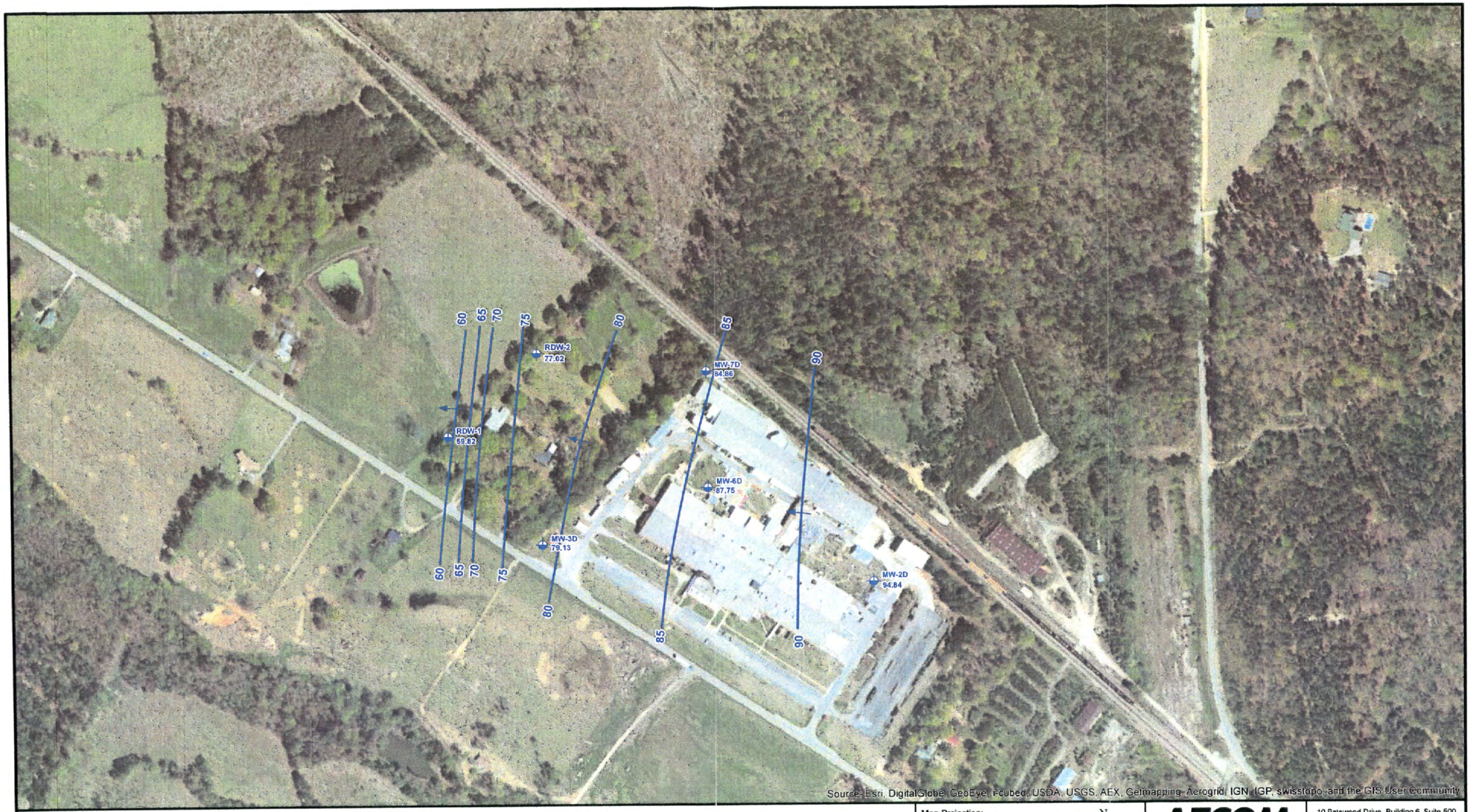
60164311	RJS	9/11/2014	**Figure 7**

Document Path: L:\Group\earth\60318382 Shakespeare Composites\GIS\Maps\60318382_014 Shallow GW Sep2014.mxd



Legend

- Monitoring Well location
- Deep Groundwater Contour (Ft. MSL)
- 59.82 Groundwater Elevation (Ft. MSL)
- Direction of Groundwater Flow

Map Projection:
NAD 83
South Carolina State Plane, Feet
Fips3900

Datum:
North American 1983

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Groundwater Elevation Contour Map in the Deep Zone September 2014

Shakespeare Composite Structures
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60164311	RJS	9/11/2014	**Figure 8**

Document Path: L:\Group\earth\60318382 Shakespeare Composites\GIS\Maps\60318382_015 Deep GW Sep2014.mxd

Legend

- Soil Boring/Sampling Location
- VOCs in Soil 0-6 ft

Concentrations are in ug/kg

Map Projection:
NAD 83
South Carolina State Plane, Feet
Fips3900

Datum:
North American 1983

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VOCs in Soil Isoconcentration Contour Map
0-6 Feet Below Ground Surface

Shakespeare Composite Structures
Newberry, South Carolina

PROJECT NO.	PREPARED BY:	DATE:	Figure 9

Document Path: L:\Group\earth\60318382 Shakespeare Composites\GIS\Maps\60318382_010 VOCs in Soil 0-6 ft.mxd

Legend

- Soil Boring/Sampling Location — Concentrations are in ug/kg
- VOCs in Soil 6-12 ft

Map Projection:
NAD 83
South Carolina State Plane, Feet
Fips3900

Datum:
North American 1983

N W E S

100 50 0 100
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VOCs in Soil Isoconcentration Contour Map
6-12 Feet Below Ground Surface

Shakespeare Composite Structures
Newberry, South Carolina

PROJECT NO.	PREPARED BY:	DATE:	**Figure** 10

Document Path: L:\Group\earth\60318382 Shakespeare Composites\GIS\Maps\60318382_011 VOCs in Soil 6-12 ft.mxd

Legend

- Soil Boring/Sampling Location
- VOCs in Soil 12-15 ft

Concentrations are in ug/kg

Map Projection:
NAD 83
South Carolina State Plane, Feet
Fips3900

Datum:
North American 1983

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100 50 0 100
Feet
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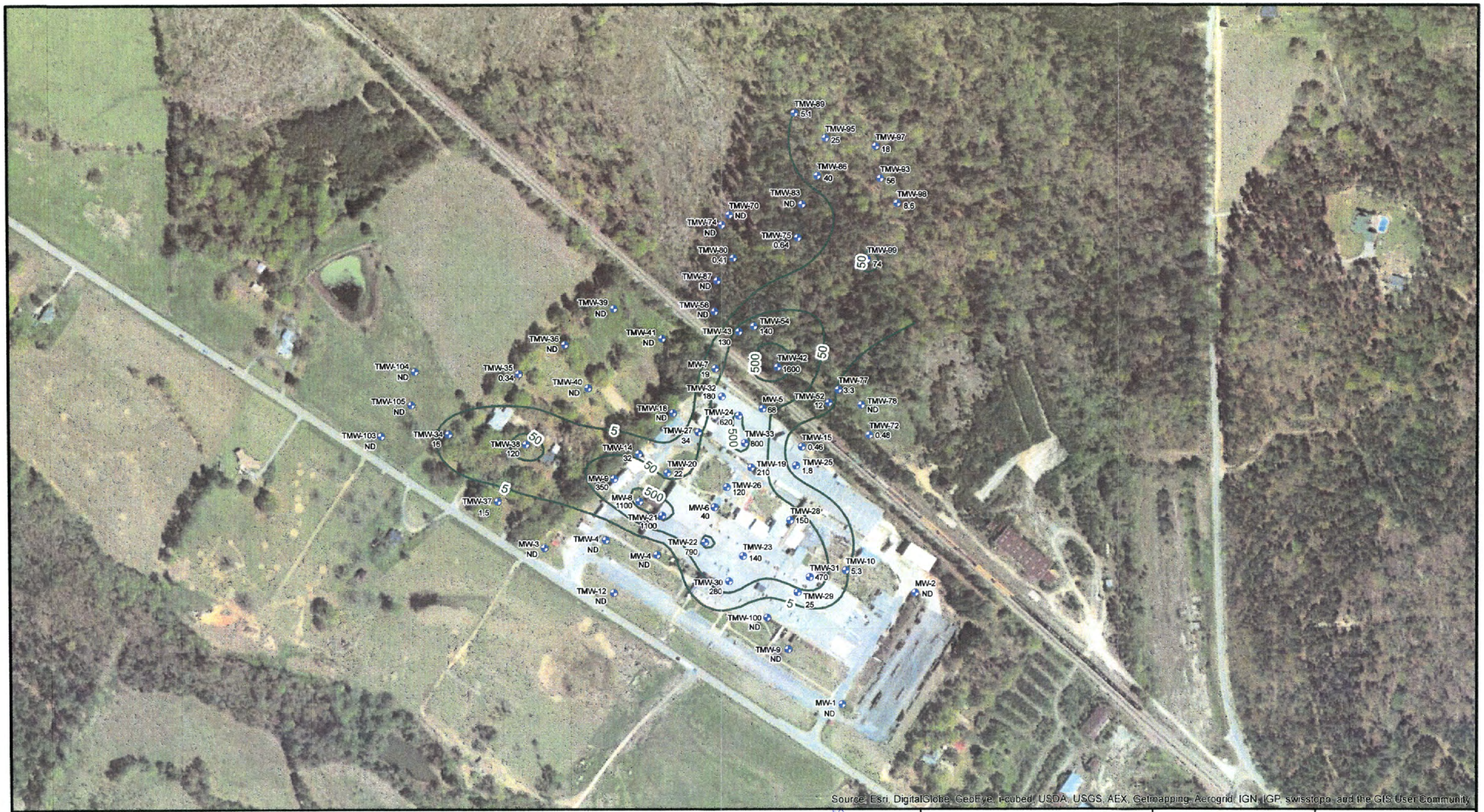
VOCs in Soil Isoconcentration Contour Map
12-15 Feet Below Ground Surface

Shakespeare Composite Structures
Newberry, South Carolina

PROJECT NO.	PREPARED BY:	DATE:	Figure 11

Document Path: L:\Group\earth\60318382 Shakespeare Composites\GIS\Maps\60318382_012 VOCs in Soil 12-15 ft.mxd



Legend

- Monitoring Well Location
- Shallow TCE Isoconcentration Contour (µg/L)
- 5.3 Shallow TCE Concentration (µg/L)
- ND Non Detect

Confirmation lab samples

Map Projection:
NAD 83
South Carolina State Plane, Feet
Fips3900

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North American 1983

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Shallow TCE
Isoconcentration Contour Map

Shakespeare Composite Structures
Newberry, South Carolina

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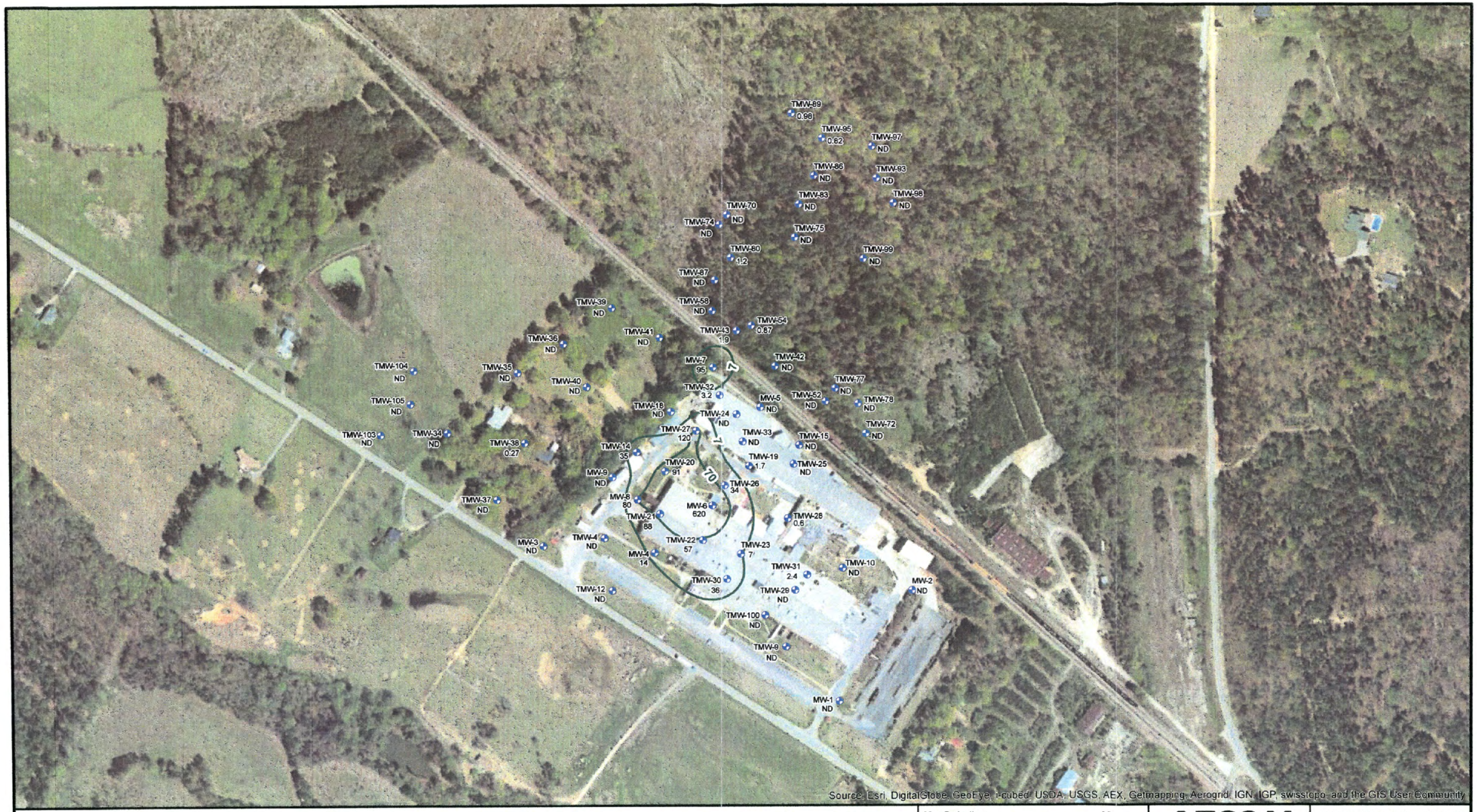
60328308	RJS	9/12/2014	**Figure** 12

Document Path: L:\Group\earth\60318382 Shakespeare Composites\GIS\Maps\60318382_020 TCE Plume Map.mxd



Legend

- Monitoring Well Location
- Shallow cis-1,2-DCE Isoconcentration Contour (µgL)
- 7 Shallow cis-1,2-DCE Concentration (µg/L)
- ND Non Detect

Map Projection:
NAD 83
South Carolina State Plane, Feet
Fips3900

Datum:
North American 1983

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300 150 0 300
Feet
1:3,600

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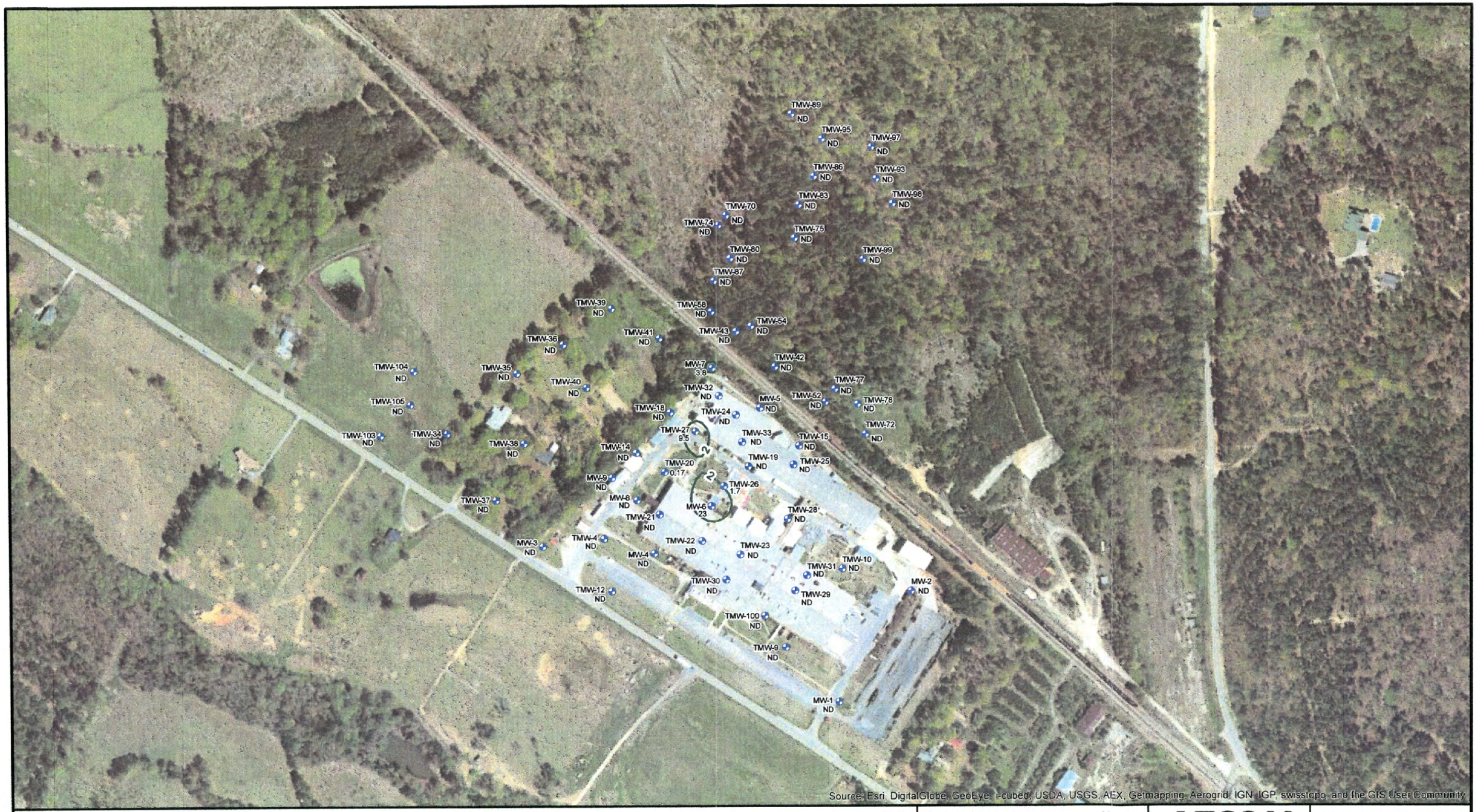
Shallow cis-1,2,DCE Isoconcentration Contour Map

Shakespeare Composite Structures
Newberry, South Carolina

PROJECT NO.	PREPARED BY:	DATE:	
60328308	RJS	9/12/2014	**Figure 13**

Document Path: L:\Group\earth\60318382 Shakespeare Composites\GIS\Maps\60318382_021 DCE Plume Map.mxd



Legend

- Monitoring Well location
- Shallow Vinyl Chloride Isoconcentration Contour (µg/L)
- 1.7 Shallow Vinyl Chloride Concentration (µg/L)
- ND Non Detect

Map Projection:
NAD 83
South Carolina State Plane, Feet
Fips3900

Datum:
North American 1983

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Shallow Vinyl Chloride Isoconcentration Contour Map

Shakespeare Composite Structures
Newberry, South Carolina

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Document Path: L:\Group\earth\60318382 Shakespeare Composites\GIS\Maps\60318382_022 VC Plume Map.mxd

Legend

- Monitoring Well Location
- Deep TCE Isoconcentration Contour (µg/L)
- Inferred Deep TCE Isoconcentration Contour (µg/L)
- 40 Deep TCE Concentration (µg/L)
- ND Non Detect

Map Projection:
NAD 83
South Carolina State Plane, Feet
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Datum:
North American 1983

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Deep TCE Isoconcentration Contour Map

Shakespeare Composite Structures
Newberry, South Carolina

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60328308	RJS	9/12/2014	**Figure** 15

Document Path: L:\Group\earth\60318382 Shakespeare Composites\GIS\Maps\60318382_023 Deep TCE Plume Map.mxd

Legend

- Water Supply Well Location

Map Projection:
NAD 83
South Carolina State Plane, Feet
Fips3900

Datum:
North American 1983

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Location of Water Supply Wells

Shakespeare Composite Structures
Newberry, South Carolina

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60164311	RJS	9/12/2014	**Figure** 16

Document Path: L:\Group\earth\60318382 Shakespeare Composites\GIS\Maps\60318382_018 Water Supply Wells.mxd

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TABLES

Table 1
Summary of Volatile Organic Compound Concentrations in Soil Samples From Other Areas
Shakespeare Composite Structures
Newberry, SC

					Acetone AST Area							
Sample ID	USEPA RSL		Risk-Based	MCL-Based	B12A (2-3)	B12A (5-6)	B12B (1-2)	B12B (5-6)	B12C (4-5)	B12C (10-11)	B12D (2-3)	B12D (5-6)
Laboratory ID					PD18034-001	PD18034-002	PD18034-003	PD18034-004	PD18034-005	PD18034-006	PD18034-007	PD18034-008
Date Collected	Residential	Industrial	SSL	SSL	04/17/14	04/17/14	04/17/14	04/17/14	04/17/14	04/17/14	04/17/14	04/17/14
Volatile Organic Compounds by USEPA Method 8260B (µg/kg)												
1,1,1-Trichloroethane	8100000	36000000	2800	70	< 4	< 3.9	< 4.3	< 4.8	< 4.7	< 4.6	< 4.2	< 4.7
1,1,2,2-Tetrachloroethane	600	2700	0.03	NS	< 4	< 3.9	< 4.3	< 4.8	< 4.7	< 4.6	< 4.2	< 4.7
1,1,2-Trichloro-1,2,2-Trifluoroethane	40000000	170000000	140000	NS	< 4	< 3.9	< 4.3	< 4.8	< 4.7	< 4.6	< 4.2	< 4.7
1,1,2-Trichloroethane	1100	5000	0.089	1.6	< 4	< 3.9	< 4.3	< 4.8	< 4.7	< 4.6	< 4.2	< 4.7
1,1-Dichloroethane	3600	16000	0.78	NS	< 4	< 3.9	< 4.3	< 4.8	< 4.7	< 4.6	< 4.2	< 4.7
1,1-Dichloroethene	230000	1000000	100	2.5	< 4	< 3.9	< 4.3	< 4.8	< 4.7	< 4.6	< 4.2	< 4.7
1,2,4-Trichlorobenzene	24000	110000	3.3	200	< 4	< 3.9	< 4.3	< 4.8	< 4.7	< 4.6	< 4.2	< 4.7
1,2-Dibromo-3-chloropropane (DBCP)	5.3	64	0.00014	0.086	< 4	< 3.9	< 4.3	< 4.8	< 4.7	< 4.6	< 4.2	< 4.7
1,2-Dibromoethane (EDB)	36	160	0.0021	0.014	< 4	< 3.9	< 4.3	< 4.8	< 4.7	< 4.6	< 4.2	< 4.7
1,2-Dichlorobenzene	1800000	9300000	300	580	< 4	< 3.9	< 4.3	< 4.8	< 4.7	< 4.6	< 4.2	< 4.7
1,2-Dichloroethane	460	2000	0.048	1.4	< 4	< 3.9	< 4.3	< 4.8	< 4.7	< 4.6	< 4.2	< 4.7
1,2-Dichloropropane	1000	4400	0.15	1.7	< 4	< 3.9	< 4.3	< 4.8	< 4.7	< 4.6	< 4.2	< 4.7
1,3-Dichlorobenzene	NS	NS	NS	NS	< 4	< 3.9	< 4.3	< 4.8	< 4.7	< 4.6	< 4.2	< 4.7
1,4-Dichlorobenzene	2600	11000	0.46	72	< 4	< 3.9	< 4.3	< 4.8	< 4.7	< 4.6	< 4.2	< 4.7
2-Butanone (MEK)	27000000	190000000	1200	NS	< 8.1	< 7.9	< 8.6	< 9.7	< 9.4	< 9.3	< 8.3	< 9.3
2-Hexanone	200000	1300000	8.8	NS	< 8.1	< 7.9	< 8.6	< 9.7	< 9.4	< 9.3	< 8.3	< 9.3
4-Methyl-2-pentanone	5300000	56000000	280	NS	< 8.1	< 7.9	< 8.6	< 9.7	< 9.4	< 9.3	< 8.3	< 9.3
Acetone	61000000	670000000	2900	NS	< 16	**42**	**27**	**22**	**88**	**50**	**33**	**29**
Benzene	1200	5100	0.23	2.6	< 4	< 3.9	< 4.3	< 4.8	< 4.7	< 4.6	< 4.2	< 4.7
Bromodichloromethane	290	1300	0.036	22	< 4	< 3.9	< 4.3	< 4.8	< 4.7	< 4.6	< 4.2	< 4.7
Bromoform	67000	290000	2.4	21	< 4	< 3.9	< 4.3	< 4.8	< 4.7	< 4.6	< 4.2	< 4.7
Bromomethane (Methyl bromide)	6800	30000	1.9	NS	< 4	< 3.9	< 4.3	< 4.8	< 4.7	< 4.6	< 4.2	< 4.7
Carbon disulfide	770000	3500000	240	NS	< 4	< 3.9	< 4.3	< 4.8	< 4.7	< 4.6	< 4.2	< 4.7
Carbon tetrachloride	650	2900	0.18	1.9	< 4	< 3.9	< 4.3	< 4.8	< 4.7	< 4.6	< 4.2	< 4.7
Chlorobenzene	280000	1300000	53	68	< 4	< 3.9	< 4.3	< 4.8	< 4.7	< 4.6	< 4.2	< 4.7
Chloroethane	14000000	57000000	5900	NS	< 4	< 3.9	< 4.3	< 4.8	< 4.7	< 4.6	< 4.2	< 4.7
Chloroform	320	1400	0.061	22	< 4	< 3.9	< 4.3	< 4.8	< 4.7	< 4.6	< 4.2	< 4.7
Chloromethane (Methyl chloride)	110000	460000	49	NS	< 4	< 3.9	< 4.3	< 4.8	< 4.7	< 4.6	< 4.2	< 4.7
cis-1,2-Dichloroethene	160000	2300000	11	21	< 4	< 3.9	< 4.3	< 4.8	**5.4**	< 4.6	< 4.2	< 4.7
cis-1,3-Dichloropropene	1800	8200	0.17	NS	< 4	< 3.9	< 4.3	< 4.8	< 4.7	< 4.6	< 4.2	< 4.7
Cyclohexane	6500000	27000000	13000	NS	< 4	< 3.9	< 4.3	< 4.8	< 4.7	< 4.6	< 4.2	< 4.7
Dibromochloromethane	730	3200	0.045	21	< 4	< 3.9	< 4.3	< 4.8	< 4.7	< 4.6	< 4.2	< 4.7
Dichlorodifluoromethane	87000	370000	300	NS	< 4	< 3.9	< 4.3	< 4.8	< 4.7	< 4.6	< 4.2	< 4.7
Ethylbenzene	5800	25000	1.7	780	< 4	< 3.9	< 4.3	< 4.8	< 4.7	< 4.6	< 4.2	< 4.7
Isopropylbenzene	1900000	9900000	740	NS	< 4	< 3.9	< 4.3	< 4.8	< 4.7	< 4.6	< 4.2	< 4.7
Methyl acetate	78000000	1.2E+09	4100	NS	< 4	< 3.9	< 4.3	< 4.8	< 4.7	< 4.6	< 4.2	< 4.7
Methyl tertiary butyl ether (MTBE)	47000	210000	3.2	NS	< 4	< 3.9	< 4.3	< 4.8	< 4.7	< 4.6	< 4.2	< 4.7
Methylcyclohexane	NS	NS	NS	NS	< 4	< 3.9	< 4.3	< 4.8	< 4.7	< 4.6	< 4.2	< 4.7
Methylene chloride	57000	1000000	2.9	1.3	< 4	< 3.9	< 4.3	< 4.8	< 4.7	< 4.6	< 4.2	< 4.7
Styrene	6000000	35000000	1300	110	< 4	< 3.9	< 4.3	< 4.8	< 4.7	< 4.6	< 4.2	< 4.7
Tetrachloroethene	24000	100000	5.1	2.3	< 4	< 3.9	< 4.3	< 4.8	< 4.7	< 4.6	< 4.2	< 4.7
Toluene	4900000	47000000	760	690	< 4	< 3.9	< 4.3	< 4.8	< 4.7	< 4.6	< 4.2	< 4.7
trans-1,2-Dichloroethene	1600000	23000000	110	29	< 4	< 3.9	< 4.3	< 4.8	< 4.7	< 4.6	< 4.2	< 4.7
trans-1,3-Dichloropropene	1800	8200	0.17	NS	< 4	< 3.9	< 4.3	< 4.8	< 4.7	< 4.6	< 4.2	< 4.7
Trichloroethene	940	6000	0.18	1.8	< 4	< 3.9	< 4.3	< 4.8	< 4.7	< 4.6	< 4.2	< 4.7
Trichlorofluoromethane	730000	3100000	730	NS	< 4	< 3.9	< 4.3	< 4.8	< 4.7	< 4.6	< 4.2	< 4.7
Vinyl chloride	59	1700	0.0065	0.69	< 4	< 3.9	< 4.3	< 4.8	< 4.7	< 4.6	< 4.2	< 4.7
Xylenes (total)	580000	2500000	190	9800	< 4	< 3.9	< 4.3	< 4.8	< 4.7	< 4.6	< 4.2	< 4.7

< Indicates not detected at the reporting limit indicated.
J Estimated result < PQL and > MDL.
Bold text with gray background indicates parameter was detected in sample
Bold outline indicates an exceedance of the Risk- or MCL-Based Soil Screening Level (SSL).

Table 1
Summary of Volatile Organic Compound Concentrations in Soil Samples From Other Areas
Shakespeare Composite Structures
Newberry, SC

					Hazardous Waste Storage Area				
Sample ID			Risk-	MCL-	B13A (2-3)	B13A (5-6)	B13B (3-5)	B13C (2-3)	B13C (5-6)
Laboratory ID	USEPA RSL		Based	Based	PD18034-009	PD18034-010	PD18034-011	PD18034-012	PD18034-013
Date Collected	Residential	Industrial	SSL	SSL	04/17/14	04/17/14	04/17/14	04/17/14	04/17/14
Volatile Organic Compounds by USEPA Method 8260B (µg/kg)									
1,1,1-Trichloroethane	8100000	36000000	2800	70	< 4.5	< 4.5	< 4.2	< 4.5	< 4.8
1,1,2,2-Tetrachloroethane	600	2700	0.03	NS	< 4.5	< 4.5	< 4.2	< 4.5	< 4.8
1,1,2-Trichloro-1,2,2-Trifluoroethane	40000000	170000000	140000	NS	< 4.5	< 4.5	< 4.2	< 4.5	< 4.8
1,1,2-Trichloroethane	1100	5000	0.089	1.6	< 4.5	< 4.5	< 4.2	< 4.5	< 4.8
1,1-Dichloroethane	3600	16000	0.78	NS	< 4.5	< 4.5	**5.6**	< 4.5	< 4.8
1,1-Dichloroethene	230000	1000000	100	2.5	< 4.5	< 4.5	< 4.2	< 4.5	< 4.8
1,2,4-Trichlorobenzene	24000	110000	3.3	200	< 4.5	< 4.5	< 4.2	< 4.5	< 4.8
1,2-Dibromo-3-chloropropane (DBCP)	5.3	64	0.00014	0.086	< 4.5	< 4.5	< 4.2	< 4.5	< 4.8
1,2-Dibromoethane (EDB)	36	160	0.0021	0.014	< 4.5	< 4.5	< 4.2	< 4.5	< 4.8
1,2-Dichlorobenzene	1800000	9300000	300	580	< 4.5	< 4.5	< 4.2	< 4.5	< 4.8
1,2-Dichloroethane	460	2000	0.048	1.4	< 4.5	< 4.5	< 4.2	< 4.5	< 4.8
1,2-Dichloropropane	1000	4400	0.15	1.7	< 4.5	< 4.5	< 4.2	< 4.5	< 4.8
1,3-Dichlorobenzene	NS	NS	NS	NS	< 4.5	< 4.5	< 4.2	< 4.5	< 4.8
1,4-Dichlorobenzene	2600	11000	0.46	72	< 4.5	< 4.5	< 4.2	< 4.5	< 4.8
2-Butanone (MEK)	27000000	190000000	1200	NS	< 9	< 9	< 8.4	< 9	< 9.7
2-Hexanone	200000	1300000	8.8	NS	< 9	< 9	< 8.4	< 9	< 9.7
4-Methyl-2-pentanone	5300000	56000000	280	NS	< 9	< 9	< 8.4	< 9	< 9.7
Acetone	61000000	670000000	2900	NS	< 18	< 18	**35**	**54**	**24**
Benzene	1200	5100	0.23	2.6	< 4.5	< 4.5	< 4.2	< 4.5	< 4.8
Bromodichloromethane	290	1300	0.036	22	< 4.5	< 4.5	< 4.2	< 4.5	< 4.8
Bromoform	67000	290000	2.4	21	< 4.5	< 4.5	< 4.2	< 4.5	< 4.8
Bromomethane (Methyl bromide)	6800	30000	1.9	NS	< 4.5	< 4.5	< 4.2	< 4.5	< 4.8
Carbon disulfide	770000	3500000	240	NS	< 4.5	< 4.5	< 4.2	< 4.5	< 4.8
Carbon tetrachloride	650	2900	0.18	1.9	< 4.5	< 4.5	< 4.2	< 4.5	< 4.8
Chlorobenzene	280000	1300000	53	68	< 4.5	< 4.5	< 4.2	< 4.5	< 4.8
Chloroethane	14000000	57000000	5900	NS	< 4.5	< 4.5	< 4.2	< 4.5	< 4.8
Chloroform	320	1400	0.061	22	< 4.5	< 4.5	< 4.2	< 4.5	< 4.8
Chloromethane (Methyl chloride)	110000	460000	49	NS	< 4.5	< 4.5	< 4.2	< 4.5	< 4.8
cis-1,2-Dichloroethene	160000	2300000	11	21	< 4.5	< 4.5	**170**	< 4.5	< 4.8
cis-1,3-Dichloropropene	1800	8200	0.17	NS	< 4.5	< 4.5	< 4.2	< 4.5	< 4.8
Cyclohexane	6500000	27000000	13000	NS	< 4.5	< 4.5	< 4.2	< 4.5	< 4.8
Dibromochloromethane	730	3200	0.045	21	< 4.5	< 4.5	< 4.2	< 4.5	< 4.8
Dichlorodifluoromethane	87000	370000	300	NS	< 4.5	< 4.5	< 4.2	< 4.5	< 4.8
Ethylbenzene	5800	25000	1.7	780	< 4.5	< 4.5	< 4.2	< 4.5	< 4.8
Isopropylbenzene	1900000	9900000	740	NS	< 4.5	**5.6**	< 4.2	< 4.5	< 4.8
Methyl acetate	78000000	1.2E+09	4100	NS	< 4.5	< 4.5	< 4.2	< 4.5	< 4.8
Methyl tertiary butyl ether (MTBE)	47000	210000	3.2	NS	< 4.5	< 4.5	< 4.2	< 4.5	< 4.8
Methylcyclohexane	NS	NS	NS	NS	< 4.5	< 4.5	< 4.2	< 4.5	< 4.8
Methylene chloride	57000	1000000	2.9	1.3	< 4.5	< 4.5	< 4.2	< 4.5	< 4.8
Styrene	6000000	35000000	1300	110	< 4.5	< 4.5	< 4.2	< 4.5	< 4.8
Tetrachloroethene	24000	100000	5.1	2.3	< 4.5	< 4.5	< 4.2	< 4.5	< 4.8
Toluene	4900000	47000000	760	690	< 4.5	< 4.5	< 4.2	< 4.5	< 4.8
trans-1,2-Dichloroethene	1600000	23000000	110	29	< 4.5	< 4.5	< 4.2	< 4.5	< 4.8
trans-1,3-Dichloropropene	1800	8200	0.17	NS	< 4.5	< 4.5	< 4.2	< 4.5	< 4.8
Trichloroethene	940	6000	0.18	1.8	< 4.5	< 4.5	< 4.2	< 4.5	< 4.8
Trichlorofluoromethane	730000	3100000	730	NS	< 4.5	< 4.5	< 4.2	< 4.5	< 4.8
Vinyl chloride	59	1700	0.0065	0.69	< 4.5	< 4.5	< 4.2	< 4.5	< 4.8
Xylenes (total)	580000	2500000	190	9800	< 4.5	< 4.5	< 4.2	< 4.5	< 4.8

< Indicates not detected at the reporting limit indicated.
J Estimated result < PQL and > MDL.
Bold text with gray background indicates parameter was detected in sample
Bold outline indicates an exceedance of the Risk- or MCL-Based Soil Screening Level (SSI

Table 2
Summary of Volatile Organic Compound Concentrations in Soil Samples From Main Building
Shakespeare Composite Structures
Newberry, SC

					North Side of Main Building outside dip vat area											
Sample ID	USEPA RSL		Risk-Based	MCL-Based	B16A (7-8)	B16A (13-14)	B16B (8-9)	B16B (12-13)	B16C (9-10)	B16C (12-13)	B16D (8-9)	B16D (12-13)	B-33-6	B-33-12	B-33-15	B-33-25
Laboratory ID					PD18034-014	PD18034-015	PD18034-016	PD18034-017	PD18034-018	PD18034-019	PD18034-020	PD18034-021	PE28056-001	PE28056-002	PE28056-003	PE28056-004
Date Collected	Residential	Industrial	SSL	SSL	04/17/14	04/17/14	04/18/14	04/18/14	04/18/14	04/18/14	04/18/14	04/18/14	05/28/14	05/28/14	05/28/14	05/28/14
Volatile Organic Compounds by USEPA Method 8260B (µg/kg)																
1,1,1-Trichloroethane	8100000	36000000	2800	70	< 4.5	< 4.5	< 4.7	< 5	< 4.7	< 4.7	< 4.6	< 3.8	< 5	< 4.8	< 5	< 5.4
1,1,2,2-Tetrachloroethane	600	2700	0.03	NS	< 4.5	< 4.5	< 4.7	< 5	< 4.7	< 4.7	< 4.6	< 3.8	< 5	< 4.8	< 5	< 5.4
1,1,2-Trichloro-1,2,2-Trifluoroethane	40000000	170000000	140000	NS	< 4.5	< 4.5	< 4.7	< 5	< 4.7	< 4.7	< 4.6	< 3.8	< 5	< 4.8	< 5	< 5.4
1,1,2-Trichloroethane	1100	5000	0.089	1.6	< 4.5	< 4.5	< 4.7	< 5	< 4.7	< 4.7	< 4.6	< 3.8	< 5	< 4.8	< 5	< 5.4
1,1-Dichloroethane	3600	16000	0.78	NS	< 4.5	< 4.5	< 4.7	< 5	< 4.7	< 4.7	< 4.6	< 3.8	< 5	< 4.8	< 5	< 5.4
1,1-Dichloroethene	230000	1000000	100	2.5	< 4.5	< 4.5	< 4.7	< 5	< 4.7	< 4.7	< 4.6	< 3.8	< 5	< 4.8	< 5	< 5.4
1,2,4-Trichlorobenzene	24000	110000	3.3	200	< 4.5	< 4.5	< 4.7	< 5	< 4.7	< 4.7	< 4.6	< 3.8	< 5	< 4.8	< 5	< 5.4
1,2-Dibromo-3-chloropropane (DBCP)	5.3	64	0.00014	0.086	< 4.5	< 4.5	< 4.7	< 5	< 4.7	< 4.7	< 4.6	< 3.8	< 5	< 4.8	< 5	< 5.4
1,2-Dibromoethane (EDB)	36	160	0.0021	0.014	< 4.5	< 4.5	< 4.7	< 5	< 4.7	< 4.7	< 4.6	< 3.8	< 5	< 4.8	< 5	< 5.4
1,2-Dichlorobenzene	1800000	9300000	300	580	< 4.5	< 4.5	< 4.7	< 5	< 4.7	< 4.7	< 4.6	< 3.8	< 5	< 4.8	< 5	< 5.4
1,2-Dichloroethane	460	2000	0.048	1.4	< 4.5	< 4.5	< 4.7	< 5	< 4.7	< 4.7	< 4.6	< 3.8	< 5	< 4.8	< 5	< 5.4
1,2-Dichloropropane	1000	4400	0.15	1.7	< 4.5	< 4.5	< 4.7	< 5	< 4.7	< 4.7	< 4.6	< 3.8	< 5	< 4.8	< 5	< 5.4
1,3-Dichlorobenzene	NS	NS	NS	NS	< 4.5	< 4.5	< 4.7	< 5	< 4.7	< 4.7	< 4.6	< 3.8	< 5	< 4.8	< 5	< 5.4
1,4-Dichlorobenzene	2600	11000	0.46	72	< 4.5	< 4.5	< 4.7	< 5	< 4.7	< 4.7	< 4.6	< 3.8	< 5	< 4.8	< 5	< 5.4
2-Butanone (MEK)	27000000	190000000	1200	NS	< 9.1	< 8.9	< 9.4	< 10	< 9.4	< 9.5	< 9.2	< 7.7	< 9.9	**6 J//**	**3 J//**	< 11
2-Hexanone	200000	1300000	8.8	NS	< 9.1	< 8.9	< 9.4	< 10	< 9.4	< 9.5	< 9.2	< 7.7	< 9.9	< 9.6	< 9.9	< 11
4-Methyl-2-pentanone	5300000	56000000	280	NS	< 9.1	< 8.9	< 9.4	< 10	< 9.4	< 9.5	**230**	< 7.7	< 9.9	< 9.6	< 9.9	< 11
Acetone	61000000	670000000	2900	NS	**22**	< 18	< 19	< 20	**21**	< 19	**38**	**31**	**48**	**64**	**21**	**15 J//**
Benzene	1200	5100	0.23	2.6	< 4.5	< 4.5	< 4.7	< 5	< 4.7	< 4.7	< 4.6	< 3.8	< 5	< 4.8	< 5	< 5.4
Bromodichloromethane	290	1300	0.036	22	< 4.5	< 4.5	< 4.7	< 5	< 4.7	< 4.7	< 4.6	< 3.8	< 5	< 4.8	< 5	< 5.4
Bromoform	67000	290000	2.4	21	< 4.5	< 4.5	< 4.7	< 5	< 4.7	< 4.7	< 4.6	< 3.8	< 5	< 4.8	< 5	< 5.4
Bromomethane (Methyl bromide)	6800	30000	1.9	NS	< 4.5	< 4.5	< 4.7	< 5	< 4.7	< 4.7	< 4.6	< 3.8	< 5	< 4.8	< 5	< 5.4
Carbon disulfide	770000	3500000	240	NS	< 4.5	< 4.5	< 4.7	< 5	< 4.7	< 4.7	< 4.6	< 3.8	< 5	< 4.8	< 5	< 5.4
Carbon tetrachloride	650	2900	0.18	1.9	< 4.5	< 4.5	< 4.7	< 5	< 4.7	< 4.7	< 4.6	< 3.8	< 5	< 4.8	< 5	< 5.4
Chlorobenzene	280000	1300000	53	68	< 4.5	< 4.5	< 4.7	< 5	< 4.7	< 4.7	< 4.6	< 3.8	< 5	< 4.8	< 5	< 5.4
Chloroethane	14000000	57000000	5900	NS	< 4.5	< 4.5	< 4.7	< 5	< 4.7	< 4.7	< 4.6	< 3.8	< 5	< 4.8	< 5	< 5.4
Chloroform	320	1400	0.061	22	< 4.5	< 4.5	< 4.7	< 5	< 4.7	< 4.7	< 4.6	< 3.8	< 5	< 4.8	< 5	< 5.4
Chloromethane (Methyl chloride)	110000	460000	49	NS	< 4.5	< 4.5	< 4.7	< 5	< 4.7	< 4.7	< 4.6	< 3.8	< 5	< 4.8	< 5	< 5.4
cis-1,2-Dichloroethene	160000	2300000	11	21	**89**	**330**	**260**	**460**	**85**	**150**	**57**	**150**	**0.99 J//**	**12**	**14**	**18**
cis-1,3-Dichloropropene	1800	8200	0.17	NS	< 4.5	< 4.5	< 4.7	< 5	< 4.7	< 4.7	< 4.6	< 3.8	< 5	< 4.8	< 5	< 5.4
Cyclohexane	6500000	27000000	13000	NS	< 4.5	< 4.5	< 4.7	< 5	< 4.7	< 4.7	< 4.6	< 3.8	< 5	< 4.8	< 5	< 5.4
Dibromochloromethane	730	3200	0.045	21	< 4.5	< 4.5	< 4.7	< 5	< 4.7	< 4.7	< 4.6	< 3.8	< 5	< 4.8	< 5	< 5.4
Dichlorodifluoromethane	87000	370000	300	NS	< 4.5	< 4.5	< 4.7	< 5	< 4.7	< 4.7	< 4.6	< 3.8	< 5	< 4.8	< 5	< 5.4
Ethylbenzene	5800	25000	1.7	780	< 4.5	< 4.5	< 4.7	< 5	< 4.7	< 4.7	**54**	**280**	< 5	< 4.8	< 5	< 5.4
Isopropylbenzene	1900000	9900000	740	NS	< 4.5	< 4.5	< 4.7	< 5	< 4.7	< 4.7	< 4.6	< 3.8	< 5	< 4.8	< 5	< 5.4
Methyl acetate	78000000	1200000000	4100	NS	< 4.5	< 4.5	< 4.7	< 5	< 4.7	< 4.7	< 4.6	< 3.8	< 5	< 4.8	< 5	< 5.4
Methyl tertiary butyl ether (MTBE)	47000	210000	3.2	NS	< 4.5	< 4.5	< 4.7	< 5	< 4.7	< 4.7	< 4.6	< 3.8	< 5	< 4.8	< 5	< 5.4
Methylcyclohexane	NS	NS	NS	NS	< 4.5	< 4.5	< 4.7	< 5	< 4.7	< 4.7	< 4.6	< 3.8	< 5	< 4.8	< 5	< 5.4
Methylene chloride	57000	1000000	2.9	1.3	< 4.5	< 4.5	< 4.7	< 5	< 4.7	< 4.7	< 4.6	< 3.8	**18**	**18**	**29**	**1.4 J//**
Styrene	6000000	35000000	1300	110	< 4.5	< 4.5	< 4.7	< 5	< 4.7	< 4.7	< 4.6	< 3.8	< 5	< 4.8	< 5	< 5.4
Tetrachloroethene	24000	100000	5.1	2.3	< 4.5	< 4.5	< 4.7	< 5	< 4.7	< 4.7	**600**	**19**	< 5	< 4.8	< 5	< 5.4
Toluene	4900000	47000000	760	690	< 4.5	< 4.5	< 4.7	< 5	< 4.7	< 4.7	< 4.6	**9**	< 5	< 4.8	< 5	< 5.4
trans-1,2-Dichloroethene	1600000	23000000	110	29	< 4.5	**6.6**	**5.3**	**7.3**	< 4.7	**7.3**	< 4.6	< 3.8	< 5	< 4.8	< 5	< 5.4
trans-1,3-Dichloropropene	1800	8200	0.17	NS	< 4.5	< 4.5	< 4.7	< 5	**4.8**	**7.2**	**5.6**	< 3.8	< 5	< 4.8	< 5	**17**
Trichloroethene	940	6000	0.18	1.8	< 4.5	< 4.5	< 4.7	< 5	< 4.7	< 4.7	< 4.6	< 3.8	< 5	< 4.8	< 5	< 5.4
Trichlorofluoromethane	730000	3100000	730	NS	< 4.5	< 4.5	< 4.7	< 5	< 4.7	< 4.7	< 4.6	< 3.8	< 5	< 4.8	< 5	**4.7 J//**
Vinyl chloride	59	1700	0.0065	0.69	< 4.5	< 4.5	< 4.7	< 5	**29**	**56**	**470**	**960**	< 5	< 4.8	< 5	< 5.4
Xylenes (total)	580000	2500000	190	9800	< 4.5	< 4.5	< 4.7	< 5	**29**	**56**	**470**	**960**	< 5	< 4.8	< 5	< 5.4

< Indicates not detected at the reporting limit indicated.
J Estimated result < PQL and > MDL.
Bold text with gray background indicates parameter was detected in sample
Bold outline indicates an exceedance of the Risk- or MCL-Based Soil Screening Level (SSL).

Table 2
Summary of Volatile Organic Compound Concentrations in Soil Samples From Main Building
Shakespeare Composite Structures
Newberry, SC

ɔn of Main Building

Sample ID			Risk-	MCL-	B-31-4	B-31-10	B-31-14	B-32-3	B-32-7	B-32-11	B-32-16	B-40-4	B-40-10	B-40-14	B-45-6	B-45-10
Laboratory ID	USEPA RSL		Based	Based	PE27053-001	PE27053-002	PE27053-003	PE27053-004	PE27053-005	PE27053-007	PE27053-006	PF04097-001	PF04097-002	PF04097-003	PF05058-007	PF05058-008
Date Collected	Residential	Industrial	SSL	SSL	05/27/14	05/27/14	05/27/14	05/27/14	05/27/14	05/27/14	05/27/14	06/04/14	06/04/14	06/04/14	06/05/14	06/05/14
Volatile Organic Compounds by USEPA Method 8260B (µg/kg)																
1,1,1-Trichloroethane	8100000	36000000	2800	70	< 5.9	< 4.6	< 5.5	< 5.6	< 7.9	< 9.6	< 9.4	< 250	< 260	< 290	< 4.9	< 5
1,1,2,2-Tetrachloroethane	600	2700	0.03	NS	< 5.9	< 4.6	< 5.5	< 5.6	< 7.9	< 9.6	< 9.4	< 250	< 260	< 290	< 4.9	< 5
1,1,2-Trichloro-1,2,2-Trifluoroethane	40000000	170000000	140000	NS	< 5.9	< 4.6	< 5.5	< 5.6	< 7.9	< 9.6	< 9.4	< 250	< 260	< 290	< 4.9	< 5
1,1,2-Trichloroethane	1100	5000	0.089	1.6	< 5.9	< 4.6	< 5.5	< 5.6	< 7.9	< 9.6	< 9.4	< 250	< 260	< 290	< 4.9	< 5
1,1-Dichloroethane	3600	16000	0.78	NS	< 5.9	< 4.6	< 5.5	< 5.6	< 7.9	< 9.6	< 9.4	< 250	< 260	< 290	< 4.9	< 5
1,1-Dichloroethene	230000	1000000	100	2.5	< 5.9	< 4.6	< 5.5	< 5.6	< 7.9	< 9.6	< 9.4	< 250	< 260	< 290	< 4.9	< 5
1,2,4-Trichlorobenzene	24000	110000	3.3	200	< 5.9	< 4.6	< 5.5	< 5.6	< 7.9	< 9.6	< 9.4	< 250	< 260	< 290	< 4.9	< 5
1,2-Dibromo-3-chloropropane (DBCP)	5.3	64	0.00014	0.086	< 5.9	< 4.6	< 5.5	< 5.6	< 7.9	< 9.6	< 9.4	< 250	< 260	< 290	< 4.9	< 5
1,2-Dibromoethane (EDB)	36	160	0.0021	0.014	< 5.9	< 4.6	< 5.5	< 5.6	< 7.9	< 9.6	< 9.4	< 250	< 260	< 290	< 4.9	< 5
1,2-Dichlorobenzene	1800000	9300000	300	580	< 5.9	< 4.6	< 5.5	< 5.6	< 7.9	< 9.6	< 9.4	< 250	< 260	< 290	< 4.9	< 5
1,2-Dichloroethane	460	2000	0.048	1.4	< 5.9	< 4.6	< 5.5	< 5.6	< 7.9	< 9.6	< 9.4	< 250	< 260	< 290	< 4.9	< 5
1,2-Dichloropropane	1000	4400	0.15	1.7	< 5.9	< 4.6	< 5.5	< 5.6	< 7.9	< 9.6	< 9.4	< 250	< 260	< 290	< 4.9	< 5
1,3-Dichlorobenzene	NS	NS	NS	NS	< 5.9	< 4.6	< 5.5	< 5.6	< 7.9	< 9.6	< 9.4	< 250	< 260	< 290	< 4.9	< 5
1,4-Dichlorobenzene	2600	11000	0.46	72	< 5.9	< 4.6	< 5.5	< 5.6	< 7.9	< 9.6	< 9.4	< 250	< 260	< 290	< 4.9	< 5
2-Butanone (MEK)	27000000	190000000	1200	NS	< 12	< 9.1	< 11	< 11	**7.9 J//**	< 19	< 19	< 500	< 520	< 580	< 9.8 /J/E	< 10 /J/E
2-Hexanone	200000	1300000	8.8	NS	< 12	< 9.1	< 11	< 11	< 16	< 19	< 19	< 500	< 520	< 580	< 9.8	< 10
4-Methyl-2-pentanone	5300000	56000000	280	NS	< 12	< 9.1	< 11	< 11	< 16	< 19	< 19	< 500	< 520	< 580	< 9.8	< 10
Acetone	61000000	670000000	2900	NS	< 23	< 18	< 22	**16 J//**	**74**	**30 J//**	**19 J//**	< 1000	< 1000	< 1200	**22 /J/E**	**40 /J/E**
Benzene	1200	5100	0.23	2.6	< 5.9	< 4.6	< 5.5	< 5.6	< 7.9	< 9.6	< 9.4	< 250	< 260	< 290	< 4.9	< 5
Bromodichloromethane	290	1300	0.036	22	< 5.9	< 4.6	< 5.5	< 5.6	< 7.9	< 9.6	< 9.4	< 250	< 260	< 290	< 4.9	< 5
Bromoform	67000	290000	2.4	21	< 5.9	< 4.6	< 5.5	< 5.6	< 7.9	< 9.6	< 9.4	< 250	< 260	< 290	< 4.9	< 5
Bromomethane (Methyl bromide)	6800	30000	1.9	NS	< 5.9	< 4.6	< 5.5	< 5.6	< 7.9	< 9.6	< 9.4	< 250	< 260	< 290	< 4.9	< 5
Carbon disulfide	770000	3500000	240	NS	< 5.9	< 4.6	< 5.5	< 5.6	< 7.9	< 9.6	< 9.4	< 250	< 260	< 290	< 4.9	< 5
Carbon tetrachloride	650	2900	0.18	1.9	< 5.9	< 4.6	< 5.5	< 5.6	< 7.9	< 9.6	< 9.4	< 250	< 260	< 290	< 4.9	< 5
Chlorobenzene	280000	1300000	53	68	< 5.9	< 4.6	< 5.5	< 5.6	< 7.9	< 9.6	< 9.4	< 250	< 260	< 290	< 4.9	< 5
Chloroethane	14000000	57000000	5900	NS	< 5.9	< 4.6	< 5.5	< 5.6	< 7.9	< 9.6	< 9.4	< 250	< 260	< 290	< 4.9	< 5
Chloroform	320	1400	0.061	22	< 5.9	< 4.6	< 5.5	< 5.6	< 7.9	< 9.6	< 9.4	< 250	< 260	< 290	< 4.9	< 5
Chloromethane (Methyl chloride)	110000	460000	49	NS	< 5.9	< 4.6	< 5.5	< 5.6	< 7.9	< 9.6	< 9.4	< 250	< 260	< 290	< 4.9	< 5
cis-1,2-Dichloroethene	160000	2300000	11	21	< 5.9	< 4.6	< 5.5	**6.8**	**25**	**43**	**39**	< 250	< 260	< 290	< 4.9	**0.97 J//**
cis-1,3-Dichloropropene	1800	8200	0.17	NS	< 5.9	< 4.6	< 5.5	< 5.6	< 7.9	< 9.6	< 9.4	< 250	< 260	< 290	< 4.9	< 5
Cyclohexane	6500000	27000000	13000	NS	< 5.9	< 4.6	< 5.5	< 5.6	< 7.9	< 9.6	< 9.4	< 250	< 260	< 290	< 4.9	< 5
Dibromochloromethane	730	3200	0.045	21	< 5.9	< 4.6	< 5.5	< 5.6	< 7.9	< 9.6	< 9.4	< 250	< 260	< 290	< 4.9	< 5
Dichlorodifluoromethane	87000	370000	300	NS	< 5.9	< 4.6	< 5.5	< 5.6	< 7.9	< 9.6	< 9.4	< 250	< 260	< 290	< 4.9	< 5
Ethylbenzene	5800	25000	1.7	780	< 5.9	< 4.6	< 5.5	< 5.6	< 7.9	< 9.6	< 9.4	< 250	< 260	< 290	< 4.9	< 5
Isopropylbenzene	1900000	9900000	740	NS	< 5.9	< 4.6	< 5.5	< 5.6	< 7.9	< 9.6	< 9.4	< 250	< 260	< 290	< 4.9	< 5
Methyl acetate	78000000	1200000000	4100	NS	< 5.9	< 4.6	< 5.5	< 5.6	< 7.9	< 9.6	< 9.4	< 250	< 260	< 290	< 4.9 /J/E	< 5 /J/E
Methyl tertiary butyl ether (MTBE)	47000	210000	3.2	NS	< 5.9	< 4.6	< 5.5	< 5.6	< 7.9	< 9.6	< 9.4	< 250	< 260	< 290	< 4.9	< 5
Methylcyclohexane	NS	NS	NS	NS	< 5.9	< 4.6	< 5.5	< 5.6	< 7.9	< 9.6	< 9.4	< 250	< 260	< 290	< 4.9	< 5
Methylene chloride	57000	1000000	2.9	1.3	< 5.9	< 4.6	< 5.5	< 5.6	< 7.9	< 9.6	< 9.4	< 250	< 260	< 290	< 4.9	< 5
Styrene	6000000	35000000	1300	110	**4.8 J//**	**3.3 J//**	**8.2**	**3.4 J//**	**4.6 J//**	**56**	**25**	< 250	< 260	< 290	< 4.9	**2 J//**
Tetrachloroethene	24000	100000	5.1	2.3	< 5.9	< 4.6	< 5.5	< 5.6	< 7.9	< 9.6	< 9.4	< 250	< 260	< 290	< 4.9	< 5
Toluene	4900000	47000000	760	690	< 5.9	< 4.6	< 5.5	< 5.6	< 7.9	< 9.6	< 9.4	< 250	< 260	< 290	< 4.9	< 5
trans-1,2-Dichloroethene	1600000	23000000	110	29	< 5.9	< 4.6	< 5.5	< 5.6	< 7.9	< 9.6	< 9.4	< 250	< 260	< 290	< 4.9	< 5
trans-1,3-Dichloropropene	1800	8200	0.17	NS	< 5.9	< 4.6	< 5.5	< 5.6	< 7.9	< 9.6	< 9.4	< 250	< 260	< 290	< 4.9	< 5
Trichloroethene	940	6000	0.18	1.8	< 5.9	**6**	**27**	< 5.6	**10**	**14**	**13**	< 250	< 260	< 290	< 4.9	< 5
Trichlorofluoromethane	730000	3100000	730	NS	< 5.9	< 4.6	< 5.5	< 5.6	< 7.9	< 9.6	< 9.4	< 250	< 260	< 290	< 4.9	< 5
Vinyl chloride	59	1700	0.0065	0.69	< 5.9	< 4.6	< 5.5	< 5.6	< 7.9	< 9.6	< 9.4	< 250	< 260	< 290	< 4.9	< 5
Xylenes (total)	580000	2500000	190	9800	< 5.9	< 4.6	< 5.5	< 5.6	< 7.9	< 9.6	< 9.4	< 250	< 260	< 290	< 4.9	< 5

< Indicates not detected at the reporting limit indicated.
J Estimated result < PQL and > MDL.
Bold text with gray background indicates parameter was detected in sample
Bold outline indicates an exceedance of the Risk- or MCL-Based Soil Screening Level (S:

Table 2
Summary of Volatile Organic Compound Concentrations in Soil Samples From Main Building
Shakespeare Composite Structures
Newberry, SC

Main Building

Sample ID			Risk-	MCL-	B-39-4	B-39-6	B-39-8	B-41-4	B-41-8	B-41-14	TMW-29-6	TMW-29-9
Laboratory ID	USEPA RSL		Based	Based	PF03066-006	PF03066-007	PF03066-008	PF04097-004	PF04097-005	PF04097-006	PF03066-001	PF03066-002
Date Collected	Residential	Industrial	SSL	SSL	06/03/14	06/03/14	06/03/14	06/04/14	06/04/14	06/04/14	06/03/14	06/03/14
Volatile Organic Compounds by USEPA Method 8260B (µg/kg)												
1,1,1-Trichloroethane	8100000	36000000	2800	70	< 5.5	< 5.1	< 5.4	< 280	< 230	< 250	< 5.2	< 5.3
1,1,2,2-Tetrachloroethane	600	2700	0.03	NS	< 5.5	< 5.1	< 5.4	< 280	< 230	< 250	< 5.2	< 5.3
1,1,2-Trichloro-1,2,2-Trifluoroethane	40000000	170000000	140000	NS	< 5.5	< 5.1	< 5.4	< 280	< 230	< 250	< 5.2	< 5.3
1,1,2-Trichloroethane	1100	5000	0.089	1.6	< 5.5	< 5.1	< 5.4	< 280	< 230	< 250	< 5.2	< 5.3
1,1-Dichloroethane	3600	16000	0.78	NS	< 5.5	< 5.1	< 5.4	< 280	< 230	< 250	< 5.2	< 5.3
1,1-Dichloroethene	230000	1000000	100	2.5	< 5.5	< 5.1	< 5.4	< 280	< 230	< 250	< 5.2	< 5.3
1,2,4-Trichlorobenzene	24000	110000	3.3	200	< 5.5	< 5.1	< 5.4	< 280	< 230	< 250	< 5.2	< 5.3
1,2-Dibromo-3-chloropropane (DBCP)	5.3	64	0.00014	0.086	< 5.5	< 5.1	< 5.4	< 280	< 230	< 250	< 5.2	< 5.3
1,2-Dibromoethane (EDB)	36	160	0.0021	0.014	< 5.5	< 5.1	< 5.4	< 280	< 230	< 250	< 5.2	< 5.3
1,2-Dichlorobenzene	1800000	9300000	300	580	< 5.5	< 5.1	< 5.4	< 280	< 230	< 250	< 5.2	< 5.3
1,2-Dichloroethane	460	2000	0.048	1.4	< 5.5	< 5.1	< 5.4	< 280	< 230	< 250	< 5.2	< 5.3
1,2-Dichloropropane	1000	4400	0.15	1.7	< 5.5	< 5.1	< 5.4	< 280	< 230	< 250	< 5.2	< 5.3
1,3-Dichlorobenzene	NS	NS	NS	NS	< 5.5	< 5.1	< 5.4	< 280	< 230	< 250	< 5.2	< 5.3
1,4-Dichlorobenzene	2600	11000	0.46	72	< 5.5	< 5.1	< 5.4	< 280	< 230	< 250	< 5.2	< 5.3
2-Butanone (MEK)	27000000	190000000	1200	NS	< 11	< 10	< 11	< 560	< 450	< 500	< 10	< 11
2-Hexanone	200000	1300000	8.8	NS	< 11	< 10	< 11	< 560	< 450	< 500	< 10	< 11
4-Methyl-2-pentanone	5300000	56000000	280	NS	< 11	< 10	< 11	< 560	< 450	< 500	< 10	< 11
Acetone	61000000	670000000	2900	NS	**16 J//**	**11 J//**	< 22	< 1100	< 900	< 1000	**47**	< 21
Benzene	1200	5100	0.23	2.6	< 5.5	< 5.1	< 5.4	< 280	< 230	< 250	< 5.2	< 5.3
Bromodichloromethane	290	1300	0.036	22	< 5.5	< 5.1	< 5.4	< 280	< 230	< 250	< 5.2	< 5.3
Bromoform	67000	290000	2.4	21	< 5.5	< 5.1	< 5.4	< 280	< 230	< 250	< 5.2	< 5.3
Bromomethane (Methyl bromide)	6800	30000	1.9	NS	< 5.5	< 5.1	< 5.4	< 280	< 230	< 250	< 5.2	< 5.3
Carbon disulfide	770000	3500000	240	NS	< 5.5	< 5.1	< 5.4	< 280	< 230	< 250	< 5.2	< 5.3
Carbon tetrachloride	650	2900	0.18	1.9	< 5.5	< 5.1	< 5.4	< 280	< 230	< 250	< 5.2	< 5.3
Chlorobenzene	280000	1300000	53	68	< 5.5	< 5.1	< 5.4	< 280	< 230	< 250	< 5.2	< 5.3
Chloroethane	14000000	57000000	5900	NS	< 5.5	< 5.1	< 5.4	< 280	< 230	< 250	< 5.2	< 5.3
Chloroform	320	1400	0.061	22	< 5.5	< 5.1	< 5.4	< 280	< 230	< 250	< 5.2	< 5.3
Chloromethane (Methyl chloride)	110000	460000	49	NS	< 5.5	< 5.1	< 5.4	< 280	< 230	< 250	< 5.2	< 5.3
cis-1,2-Dichloroethene	160000	2300000	11	21	< 5.5	< 5.1	< 5.4	< 280	< 230	< 250	< 5.2	< 5.3
cis-1,3-Dichloropropene	1800	8200	0.17	NS	< 5.5	< 5.1	< 5.4	< 280	< 230	< 250	< 5.2	< 5.3
Cyclohexane	6500000	27000000	13000	NS	< 5.5	< 5.1	< 5.4	< 280	< 230	< 250	< 5.2	< 5.3
Dibromochloromethane	730	3200	0.045	21	< 5.5	< 5.1	< 5.4	< 280	< 230	< 250	< 5.2	< 5.3
Dichlorodifluoromethane	87000	370000	300	NS	< 5.5	< 5.1	< 5.4	< 280	< 230	< 250	< 5.2	< 5.3
Ethylbenzene	5800	25000	1.7	780	< 5.5	< 5.1	< 5.4	< 280	< 230	< 250	< 5.2	< 5.3
Isopropylbenzene	1900000	9900000	740	NS	< 5.5	< 5.1	< 5.4	< 280	< 230	< 250	< 5.2	< 5.3
Methyl acetate	78000000	1200000000	4100	NS	< 5.5	< 5.1	< 5.4	< 280	**150 J//**	< 250	< 5.2	< 5.3
Methyl tertiary butyl ether (MTBE)	47000	210000	3.2	NS	< 5.5	< 5.1	< 5.4	< 280	< 230	< 250	< 5.2	< 5.3
Methylcyclohexane	NS	NS	NS	NS	< 5.5	< 5.1	< 5.4	< 280	< 230	< 250	< 5.2	< 5.3
Methylene chloride	57000	1000000	2.9	1.3	< 5.5	< 5.1	< 5.4	< 280	< 230	< 250	< 5.2	< 5.3
Styrene	6000000	35000000	1300	110	**3.7 J//**	**3 J//**	**1.3 J//**	< 280	< 230	< 250	**3 J//**	**1.4 J//**
Tetrachloroethene	24000	100000	5.1	2.3	< 5.5	< 5.1	< 5.4	< 280	< 230	< 250	< 5.2	< 5.3
Toluene	4900000	47000000	760	690	< 5.5	< 5.1	< 5.4	< 280	< 230	< 250	< 5.2	< 5.3
trans-1,2-Dichloroethene	1600000	23000000	110	29	< 5.5	< 5.1	< 5.4	< 280	< 230	< 250	< 5.2	< 5.3
trans-1,3-Dichloropropene	1800	8200	0.17	NS	< 5.5	< 5.1	< 5.4	< 280	< 230	< 250	< 5.2	< 5.3
Trichloroethene	940	6000	0.18	1.8	< 5.5	< 5.1	< 5.4	< 280	< 230	< 250	< 5.2	< 5.3
Trichlorofluoromethane	730000	3100000	730	NS	< 5.5	< 5.1	< 5.4	< 280	< 230	< 250	< 5.2	< 5.3
Vinyl chloride	59	1700	0.0065	0.69	< 5.5	< 5.1	< 5.4	< 280	< 230	< 250	< 5.2	< 5.3
Xylenes (total)	580000	2500000	190	9800	< 5.5	< 5.1	< 5.4	< 280	< 230	< 250	< 5.2	< 5.3

< Indicates not detected at the reporting limit indicated.
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Bold text with gray background indicates parameter was detected in sample
Bold outline indicates an exceedance of the Risk- or MCL-Based Soil Screening Level (S:

Table 2
Summary of Volatile Organic Compound Concentrations in Soil Samples From Main Building
Shakespeare Composite Structures
Newberry, SC

													Outside NW end of Main Building				
Sample ID	USEPA RSL		Risk-Based	MCL-Based	B-20-2	B-20-11	B-20-15	B-21-2	B-21-9	B-21-15	B-22-2	B-22-8	B-22-15	B-23-2	B-23-8	B-23-14
Laboratory ID					PE21017-004	PE21017-005	PE21017-006	PE21017-007	PE21017-008	PE21017-009	PE21017-010	PE21017-011	PE21017-012	PE21017-013	PE21017-014	PE21017-015
Date Collected	Residential	Industrial	SSL	SSL	05/20/14	05/20/14	05/20/14	05/20/14	05/20/14	05/20/14	05/20/14	05/20/14	05/20/14	05/20/14	05/20/14	05/20/14
Volatile Organic Compounds by USEPA Method 8260B (µg/kg)																
1,1,1-Trichloroethane	8100000	36000000	2800	70	< 4	< 5	< 4.5	< 4.4	< 4.1	< 4.7	< 4.2	< 4.9	< 5.3	< 4.4	< 5.2	< 4.9
1,1,2,2-Tetrachloroethane	600	2700	0.03	NS	< 4	< 5	< 4.5	< 4.4	< 4.1	< 4.7	< 4.2	**27**	< 5.3	< 4.4	< 5.2	< 4.9
1,1,2-Trichloro-1,2,2-Trifluoroethane	40000000	170000000	140000	NS	< 4	< 5	< 4.5	< 4.4	< 4.1	< 4.7	< 4.2	< 4.9	< 5.3	< 4.4	< 5.2	< 4.9
1,1,2-Trichloroethane	1100	5000	0.089	1.6	< 4	< 5	< 4.5	< 4.4	< 4.1	< 4.7	< 4.2	< 4.9	< 5.3	< 4.4	< 5.2	< 4.9
1,1-Dichloroethane	3600	16000	0.78	NS	< 4	< 5	< 4.5	< 4.4	< 4.1	< 4.7	< 4.2	< 4.9	< 5.3	< 4.4	< 5.2	< 4.9
1,1-Dichloroethene	230000	1000000	100	2.5	< 4	< 5	< 4.5	< 4.4	< 4.1	< 4.7	< 4.2	< 4.9	< 5.3	< 4.4	< 5.2	< 4.9
1,2,4-Trichlorobenzene	24000	110000	3.3	200	< 4	< 5	< 4.5	< 4.4	< 4.1	< 4.7	< 4.2	< 4.9	< 5.3	< 4.4	< 5.2	< 4.9
1,2-Dibromo-3-chloropropane (DBCP)	5.3	64	0.00014	0.086	< 4	< 5	< 4.5	< 4.4	< 4.1	< 4.7	< 4.2	< 4.9	< 5.3	< 4.4	< 5.2	< 4.9
1,2-Dibromoethane (EDB)	36	160	0.0021	0.014	< 4	< 5	< 4.5	< 4.4	< 4.1	< 4.7	< 4.2	< 4.9	< 5.3	< 4.4	< 5.2	< 4.9
1,2-Dichlorobenzene	1800000	9300000	300	580	< 4	< 5	< 4.5	< 4.4	< 4.1	< 4.7	< 4.2	< 4.9	< 5.3	< 4.4	< 5.2	< 4.9
1,2-Dichloroethane	460	2000	0.048	1.4	< 4	< 5	< 4.5	< 4.4	< 4.1	< 4.7	< 4.2	< 4.9	< 5.3	< 4.4	< 5.2	< 4.9
1,2-Dichloropropane	1000	4400	0.15	1.7	< 4	< 5	< 4.5	< 4.4	< 4.1	< 4.7	< 4.2	< 4.9	< 5.3	< 4.4	< 5.2	< 4.9
1,3-Dichlorobenzene	NS	NS	NS	NS	< 4	< 5	< 4.5	< 4.4	< 4.1	< 4.7	< 4.2	< 4.9	< 5.3	< 4.4	< 5.2	< 4.9
1,4-Dichlorobenzene	2600	11000	0.46	72	< 4	< 5	< 4.5	< 4.4	< 4.1	< 4.7	< 4.2	< 4.9	< 5.3	< 4.4	< 5.2	< 4.9
2-Butanone (MEK)	27000000	190000000	1200	NS	< 8	**14**	< 9.1	< 8.8	**2.2 J//**	< 9.4	< 8.4	**6.3 J//**	< 11	< 8.9	< 10	< 9.7
2-Hexanone	200000	1300000	8.8	NS	< 8	< 10	< 9.1	< 8.8	< 8.2	< 9.4	< 8.4	< 9.7	< 11	< 8.9	< 10	< 9.7
4-Methyl-2-pentanone	5300000	56000000	280	NS	< 8	< 10	< 9.1	< 8.8	< 8.2	< 9.4	< 8.4	< 9.7	< 11	< 8.9	< 10	< 9.7
Acetone	61000000	670000000	2900	NS	< 16	**73**	< 18	< 18	**24**	< 19	< 17	**66**	< 21	< 18	**33**	**8.9 J//**
Benzene	1200	5100	0.23	2.6	< 4	< 5	< 4.5	< 4.4	< 4.1	< 4.7	< 4.2	< 4.9	< 5.3	< 4.4	< 5.2	< 4.9
Bromodichloromethane	290	1300	0.036	22	< 4	< 5	< 4.5	< 4.4	< 4.1	< 4.7	< 4.2	< 4.9	< 5.3	< 4.4	< 5.2	< 4.9
Bromoform	67000	290000	2.4	21	< 4	< 5	< 4.5	< 4.4	< 4.1	< 4.7	< 4.2	< 4.9	< 5.3	< 4.4	< 5.2	< 4.9
Bromomethane (Methyl bromide)	6800	30000	1.9	NS	< 4	< 5	< 4.5	< 4.4	< 4.1	< 4.7	< 4.2	< 4.9	< 5.3	< 4.4	< 5.2	< 4.9
Carbon disulfide	770000	3500000	240	NS	< 4	< 5	< 4.5	< 4.4	< 4.1	< 4.7	< 4.2	< 4.9	< 5.3	< 4.4	< 5.2	< 4.9
Carbon tetrachloride	650	2900	0.18	1.9	< 4	< 5	< 4.5	< 4.4	< 4.1	< 4.7	< 4.2	**5.3**	< 5.3	< 4.4	< 5.2	< 4.9
Chlorobenzene	280000	1300000	53	68	< 4	< 5	< 4.5	< 4.4	< 4.1	< 4.7	< 4.2	< 4.9	< 5.3	< 4.4	< 5.2	< 4.9
Chloroethane	14000000	57000000	5900	NS	< 4	< 5	< 4.5	< 4.4	< 4.1	< 4.7	< 4.2	< 4.9	< 5.3	< 4.4	< 5.2	< 4.9
Chloroform	320	1400	0.061	22	< 4	< 5	< 4.5	< 4.4	< 4.1	< 4.7	< 4.2	< 4.9	< 5.3	< 4.4	< 5.2	< 4.9
Chloromethane (Methyl chloride)	110000	460000	49	NS	< 4	< 5	< 4.5	< 4.4	< 4.1	< 4.7	< 4.2	< 4.9	< 5.3	< 4.4	< 5.2	< 4.9
cis-1,2-Dichloroethene	160000	2300000	11	21	< 4	< 5	< 4.5	< 4.4	< 4.1	< 4.7	< 4.2	< 4.9	< 5.3	< 4.4	< 5.2	< 4.9
cis-1,3-Dichloropropene	1800	8200	0.17	NS	< 4	< 5	< 4.5	< 4.4	< 4.1	< 4.7	< 4.2	**0.94 J//**	< 5.3	< 4.4	< 5.2	< 4.9
Cyclohexane	6500000	27000000	13000	NS	< 4	< 5	< 4.5	< 4.4	< 4.1	< 4.7	< 4.2	< 4.9	< 5.3	< 4.4	< 5.2	< 4.9
Dibromochloromethane	730	3200	0.045	21	< 4	< 5	< 4.5	< 4.4	< 4.1	< 4.7	< 4.2	< 4.9	< 5.3	< 4.4	< 5.2	< 4.9
Dichlorodifluoromethane	87000	370000	300	NS	< 4	< 5	< 4.5	< 4.4	< 4.1	< 4.7	< 4.2	< 4.9	< 5.3	< 4.4	< 5.2	< 4.9
Ethylbenzene	5800	25000	1.7	780	< 4	**20**	< 4.5	< 4.4	**2.6 J//**	< 4.7	< 4.2	< 4.9	< 5.3	< 4.4	< 5.2	< 4.9
Isopropylbenzene	1900000	9900000	740	NS	< 4	< 5	< 4.5	< 4.4	< 4.1	< 4.7	< 4.2	< 4.9	< 5.3	< 4.4	< 5.2	< 4.9
Methyl acetate	78000000	1200000000	4100	NS	< 4	< 5	< 4.5	< 4.4	< 4.1	< 4.7	< 4.2	< 4.9	< 5.3	< 4.4	< 5.2	< 4.9
Methyl tertiary butyl ether (MTBE)	47000	210000	3.2	NS	< 4	< 5	< 4.5	< 4.4	< 4.1	< 4.7	< 4.2	< 4.9	< 5.3	< 4.4	< 5.2	< 4.9
Methylcyclohexane	NS	NS	NS	NS	< 4	< 5	< 4.5	< 4.4	< 4.1	< 4.7	< 4.2	< 4.9	< 5.3	< 4.4	< 5.2	< 4.9
Methylene chloride	57000	1000000	2.9	1.3	< 4	< 5	< 4.5	< 4.4	< 4.1	< 4.7	< 4.2	< 4.9	< 5.3	< 4.4	< 5.2	< 4.9
Styrene	6000000	35000000	1300	110	**1.5 J//**	< 5	**1.7 J//**	< 4.4	< 4.1	**2.6 J//**	< 4.2	< 4.9	< 5.3	**4.1 J//**	**7.4**	**11**
Tetrachloroethene	24000	100000	5.1	2.3	< 4	**0.51 J//**	< 4.5	< 4.4	< 4.1	**0.5 J//**	< 4.2	< 4.9	< 5.3	< 4.4	< 5.2	< 4.9
Toluene	4900000	47000000	760	690	< 4	< 5	< 4.5	< 4.4	< 4.1	< 4.7	< 4.2	< 4.9	< 5.3	< 4.4	< 5.2	< 4.9
trans-1,2-Dichloroethene	1600000	23000000	110	29	< 4	< 5	< 4.5	< 4.4	< 4.1	< 4.7	< 4.2	< 4.9	< 5.3	< 4.4	< 5.2	< 4.9
trans-1,3-Dichloropropene	1800	8200	0.17	NS	< 4	< 5	< 4.5	< 4.4	< 4.1	< 4.7	< 4.2	< 4.9	< 5.3	< 4.4	< 5.2	< 4.9
Trichloroethene	940	6000	0.18	1.8	< 4	< 5	< 4.5	< 4.4	< 4.1	**6**	< 4.2	< 4.9	< 5.3	< 4.4	< 5.2	< 4.9
Trichlorofluoromethane	730000	3100000	730	NS	< 4	< 5	< 4.5	< 4.4	< 4.1	< 4.7	< 4.2	< 4.9	< 5.3	< 4.4	< 5.2	< 4.9
Vinyl chloride	59	1700	0.0065	0.69	< 4	< 5	< 4.5	< 4.4	< 4.1	< 4.7	< 4.2	< 4.9	< 5.3	< 4.4	< 5.2	< 4.9
Xylenes (total)	580000	2500000	190	9800	< 4	< 5	< 4.5	< 4.4	< 4.1	< 4.7	< 4.2	< 4.9	< 5.3	< 4.4	< 5.2	< 4.9

< Indicates not detected at the reporting limit indicated.
J Estimated result < PQL and > MDL.
Bold text with gray background indicates parameter was detected in sample
Bold outline indicates an exceedance of the Risk- or MCL-Based Soil Screening Level (S

Table 2
Summary of Volatile Organic Compound Concentrations in Soil Samples From Main Building
Shakespeare Composite Structures
Newberry, SC

Sample ID					B-24-4	B-24-8	B-24-24	B-25-4	B-25-10	B-25-25	B-26-4	B-26-14	B-26-25	B-27-2	B27-4	B-27-14	B-27-25
Laboratory ID	USEPA RSL		Risk-Based	MCL-Based	PE21017-016	PE21017-017	PE21017-018	PE22015-001	PE22015-002	PE22015-003	PE22065-010	PE22065-011	PE22065-012	PE22065-013	PE22065-014	PE22065-015	PE22065-016
Date Collected	Residential	Industrial	SSL	SSL	05/20/14	05/20/14	05/20/14	05/21/14	05/21/14	05/21/14	05/22/14	05/22/14	05/22/14	05/22/14	05/22/14	05/22/14	05/22/14
Volatile Organic Compounds by USEPA Method 8260B (µg/kg)																	
1,1,1-Trichloroethane	8100000	36000000	2800	70	< 4.4	< 4	< 4.7	< 4.6	< 4.6	< 4.8	< 4.8	< 4.9	< 5.4	< 5.5	< 6	< 5.5	< 5.2
1,1,2,2-Tetrachloroethane	600	2700	0.03	NS	< 4.4	< 4	< 4.7	< 4.6	< 4.6	< 4.8	< 4.8	< 4.9	< 5.4	< 5.5	< 6	< 5.5	< 5.2
1,1,2-Trichloro-1,2,2-Trifluoroethane	40000000	170000000	140000	NS	< 4.4	< 4	< 4.7	< 4.6	< 4.6	< 4.8	< 4.8	< 4.9	< 5.4	< 5.5	< 6	< 5.5	< 5.2
1,1,2-Trichloroethane	1100	5000	0.089	1.6	< 4.4	< 4	< 4.7	< 4.6	< 4.6	< 4.8	< 4.8	< 4.9	< 5.4	< 5.5	< 6	< 5.5	< 5.2
1,1-Dichloroethane	3600	16000	0.78	NS	< 4.4	< 4	< 4.7	< 4.6	< 4.6	< 4.8	< 4.8	< 4.9	< 5.4	< 5.5	< 6	< 5.5	< 5.2
1,1-Dichloroethene	230000	1000000	100	2.5	< 4.4	< 4	< 4.7	< 4.6	< 4.6	< 4.8	< 4.8	< 4.9	< 5.4	< 5.5	< 6	< 5.5	< 5.2
1,2,4-Trichlorobenzene	24000	110000	3.3	200	< 4.4	< 4	< 4.7	< 4.6	< 4.6	< 4.8	< 4.8	< 4.9	< 5.4	< 5.5	< 6	< 5.5	< 5.2
1,2-Dibromo-3-chloropropane (DBCP)	5.3	64	0.00014	0.086	< 4.4	< 4	< 4.7	< 4.6	< 4.6	< 4.8	< 4.8	< 4.9	< 5.4	< 5.5	< 6	< 5.5	< 5.2
1,2-Dibromoethane (EDB)	36	160	0.0021	0.014	< 4.4	< 4	< 4.7	< 4.6	< 4.6	< 4.8	< 4.8	< 4.9	< 5.4	< 5.5	< 6	< 5.5	< 5.2
1,2-Dichlorobenzene	1800000	9300000	300	580	< 4.4	< 4	< 4.7	< 4.6	< 4.6	< 4.8	< 4.8	< 4.9	< 5.4	< 5.5	< 6	< 5.5	< 5.2
1,2-Dichloroethane	460	2000	0.048	1.4	< 4.4	< 4	< 4.7	< 4.6	< 4.6	< 4.8	< 4.8	< 4.9	< 5.4	< 5.5	< 6	< 5.5	< 5.2
1,2-Dichloropropane	1000	4400	0.15	1.7	< 4.4	< 4	< 4.7	< 4.6	< 4.6	< 4.8	< 4.8	< 4.9	< 5.4	< 5.5	< 6	< 5.5	< 5.2
1,3-Dichlorobenzene	NS	NS	NS	NS	< 4.4	< 4	< 4.7	< 4.6	< 4.6	< 4.8	< 4.8	< 4.9	< 5.4	< 5.5	< 6	< 5.5	< 5.2
1,4-Dichlorobenzene	2600	11000	0.46	72	< 4.4	< 4	< 4.7	< 4.6	< 4.6	< 4.8	< 4.8	< 4.9	< 5.4	< 5.5	< 6	< 5.5	< 5.2
2-Butanone (MEK)	27000000	190000000	1200	NS	< 8.8	**6.7 J//**	< 9.4	< 9.1	**3.2 J//**	< 9.5	< 9.6	< 9.7	< 11	**9.9 J//**	< 12	< 11	< 10
2-Hexanone	200000	1300000	8.8	NS	< 8.8	< 7.9	< 9.4	< 9.1	< 9.2	< 9.5	< 9.6	< 9.7	< 11	< 11	< 12	< 11	< 10
4-Methyl-2-pentanone	5300000	56000000	280	NS	< 8.8	< 7.9	< 9.4	< 9.1	< 9.2	< 9.5	< 9.6	< 9.7	< 11	< 11	< 12	< 11	< 10
Acetone	61000000	670000000	2900	NS	**41**	**42**	< 19	< 18	**40**	< 19	**42**	**14 J//**	**67**	**92**	**57**	**63**	**29**
Benzene	1200	5100	0.23	2.6	< 4.4	< 4	< 4.7	< 4.6	< 4.6	< 4.8	< 4.8	< 4.9	< 5.4	< 5.5	< 6	< 5.5	< 5.2
Bromodichloromethane	290	1300	0.036	22	< 4.4	< 4	< 4.7	< 4.6	< 4.6	< 4.8	< 4.8	< 4.9	< 5.4	< 5.5	< 6	< 5.5	< 5.2
Bromoform	67000	290000	2.4	21	< 4.4	< 4	< 4.7	< 4.6	< 4.6	< 4.8	< 4.8	< 4.9	< 5.4	< 5.5	< 6	< 5.5	< 5.2
Bromomethane (Methyl bromide)	6800	30000	1.9	NS	< 4.4	< 4	< 4.7	< 4.6	< 4.6	< 4.8	< 4.8	< 4.9	< 5.4	< 5.5	< 6	< 5.5	< 5.2
Carbon disulfide	770000	3500000	240	NS	< 4.4	< 4	< 4.7	< 4.6	< 4.6	< 4.8	< 4.8	< 4.9	< 5.4	< 5.5	< 6	< 5.5	< 5.2
Carbon tetrachloride	650	2900	0.18	1.9	< 4.4	< 4	< 4.7	< 4.6	< 4.6	< 4.8	< 4.8	< 4.9	< 5.4	< 5.5	< 6	< 5.5	< 5.2
Chlorobenzene	280000	1300000	53	68	< 4.4	< 4	< 4.7	< 4.6	< 4.6	< 4.8	< 4.8	< 4.9	< 5.4	< 5.5	< 6	< 5.5	< 5.2
Chloroethane	14000000	57000000	5900	NS	< 4.4	< 4	< 4.7	< 4.6	< 4.6	< 4.8	< 4.8	< 4.9	< 5.4	< 5.5	< 6	< 5.5	< 5.2
Chloroform	320	1400	0.061	22	< 4.4	< 4	< 4.7	< 4.6	< 4.6	< 4.8	< 4.8	< 4.9	< 5.4	< 5.5	< 6	< 5.5	< 5.2
Chloromethane (Methyl chloride)	110000	460000	49	NS	< 4.4	< 4	< 4.7	< 4.6	< 4.6	< 4.8	< 4.8	< 4.9	< 5.4	< 5.5	< 6	< 5.5	< 5.2
cis-1,2-Dichloroethene	160000	2300000	11	21	< 4.4	**33**	**170**	< 4.6	**2.8 J//**	**19**	**2.9 J//**	**13**	**9.8**	**45**	**41**	**130**	**24**
cis-1,3-Dichloropropene	1800	8200	0.17	NS	< 4.4	< 4	< 4.7	< 4.6	< 4.6	< 4.8	< 4.8	< 4.9	< 5.4	< 5.5	< 6	< 5.5	< 5.2
Cyclohexane	6500000	27000000	13000	NS	< 4.4	< 4	< 4.7	< 4.6	< 4.6	< 4.8	< 4.8	< 4.9	< 5.4	< 5.5	< 6	< 5.5	< 5.2
Dibromochloromethane	730	3200	0.045	21	< 4.4	< 4	< 4.7	< 4.6	< 4.6	< 4.8	< 4.8	< 4.9	< 5.4	< 5.5	< 6	< 5.5	< 5.2
Dichlorodifluoromethane	87000	370000	300	NS	< 4.4	< 4	< 4.7	< 4.6	< 4.6	< 4.8	< 4.8	< 4.9	< 5.4	< 5.5	< 6	< 5.5	< 5.2
Ethylbenzene	5800	25000	1.7	780	< 4.4	**16**	< 4.7	< 4.6	**6.1**	< 4.8	< 4.8	< 4.9	< 5.4	< 5.5	< 6	< 5.5	< 5.2
Isopropylbenzene	1900000	9900000	740	NS	< 4.4	< 4	< 4.7	< 4.6	< 4.6	< 4.8	< 4.8	< 4.9	< 5.4	< 5.5	< 6	< 5.5	< 5.2
Methyl acetate	78000000	1200000000	4100	NS	< 4.4	< 4	< 4.7	< 4.6	< 4.6	< 4.8	< 4.8	< 4.9	< 5.4	< 5.5	< 6	< 5.5	< 5.2
Methyl tertiary butyl ether (MTBE)	47000	210000	3.2	NS	< 4.4	< 4	< 4.7	< 4.6	< 4.6	< 4.8	< 4.8	< 4.9	< 5.4	< 5.5	< 6	< 5.5	< 5.2
Methylcyclohexane	NS	NS	NS	NS	< 4.4	< 4	< 4.7	< 4.6	< 4.6	< 4.8	< 4.8	< 4.9	< 5.4	< 5.5	< 6	< 5.5	< 5.2
Methylene chloride	57000	1000000	2.9	1.3	< 4.4	< 4	< 4.7	< 4.6	< 4.6	< 4.8	< 4.8	< 4.9	< 5.4	< 5.5	< 6	< 5.5	< 5.2
Styrene	6000000	35000000	1300	110	**2.4 J//**	< 4	**9**	**4.4 J//**	**2.2 J//**	< 4.8	**13**	**5.8**	**38**	**2.7 J//**	**4.5 J//**	**19**	**8.3**
Tetrachloroethene	24000	100000	5.1	2.3	< 4.4	< 4	**0.66 J//**	< 4.6	**0.55 J//**	**1.6 J//**	< 4.8	< 4.9	< 5.4	< 5.5	**1.3 J//**	< 5.5	< 5.2
Toluene	4900000	47000000	760	690	< 4.4	**9.8**	< 4.7	< 4.6	< 4.6	< 4.8	< 4.8	< 4.9	< 5.4	< 5.5	< 6	< 5.5	< 5.2
trans-1,2-Dichloroethene	1600000	23000000	110	29	< 4.4	< 4	< 4.7	< 4.6	< 4.6	**1.8 J//**	< 4.8	< 4.9	< 5.4	**4.9 J//**	< 6	**9.5**	< 5.2
trans-1,3-Dichloropropene	1800	8200	0.17	NS	< 4.4	< 4	< 4.7	< 4.6	< 4.6	< 4.8	< 4.8	< 4.9	< 5.4	< 5.5	< 6	< 5.5	< 5.2
Trichloroethene	940	6000	0.18	1.8	< 4.4	**30**	**83**	< 4.6	**14**	**220 J//**	< 4.8	**40**	**45**	**51**	**230**	**70**	**14**
Trichlorofluoromethane	730000	3100000	730	NS	< 4.4	< 4	< 4.7	< 4.6	< 4.6	< 4.8	< 4.8	< 4.9	< 5.4	< 5.5	< 6	< 5.5	< 5.2
Vinyl chloride	59	1700	0.0065	0.69	< 4.4	< 4	< 4.7	< 4.6	< 4.6	< 4.8	< 4.8	< 4.9	< 5.4	< 5.5	< 6	< 5.5	< 5.2
Xylenes (total)	580000	2500000	190	9800	< 4.4	< 4	< 4.7	< 4.6	< 4.6	< 4.8	< 4.8	< 4.9	< 5.4	< 5.5	< 6	< 5.5	< 5.2

< Indicates not detected at the reporting limit indicated.
J Estimated result < PQL and > MDL.
Bold text with gray background indicates parameter was detected in sample
Bold outline indicates an exceedance of the Risk- or MCL-Based Soil Screening Level (S

Table 2
Summary of Volatile Organic Compound Concentrations in Soil Samples From Main Building
Shakespeare Composite Structures
Newberry, SC

West Central Porti

Sample ID			Risk-	MCL-	B-28-6	B-28-10	B-28-14	B-28-22	B-29-4	B-29-10	B-29-14	B-29-18	B-29-18 (DUP)	B-30-6	B-30-10	B-30-14	B-30-18
Laboratory ID	USEPA RSL		Based	Based	PE22065-017	PE22065-018	PE22065-019	PE22065-009	PE23029-001	PE23029-002	PE23029-003	PE23029-004	PE23029-005	PE23029-006	PE23029-007	PE23029-008	PE23029-009
Date Collected	Residential	Industrial	SSL	SSL	05/22/14	05/22/14	05/22/14	05/22/14	05/23/14	05/23/14	05/23/14	05/23/14	05/23/14	05/23/14	05/23/14	05/23/14	05/23/14
Volatile Organic Compounds by USEPA Method 8260B (µg/kg)																	
1,1,1-Trichloroethane	8100000	36000000	2800	70	< 5.2	< 6.7	< 5.2	< 5	< 5.1	< 4.8	< 5.5	< 5.3	< 5.5	< 4.8	< 6.2	< 5.9	< 5.5
1,1,2,2-Tetrachloroethane	600	2700	0.03	NS	< 5.2	< 6.7	< 5.2	< 5	< 5.1	< 4.8	< 5.5	< 5.3	< 5.5	< 4.8	< 6.2	< 5.9	< 5.5
1,1,2-Trichloro-1,2,2-Trifluoroethane	40000000	170000000	140000	NS	< 5.2	< 6.7	< 5.2	< 5	< 5.1	< 4.8	< 5.5	< 5.3	< 5.5	< 4.8	< 6.2	< 5.9	< 5.5
1,1,2-Trichloroethane	1100	5000	0.089	1.6	< 5.2	< 6.7	< 5.2	< 5	< 5.1	< 4.8	< 5.5	< 5.3	< 5.5	< 4.8	< 6.2	< 5.9	< 5.5
1,1-Dichloroethane	3600	16000	0.78	NS	< 5.2	< 6.7	< 5.2	< 5	< 5.1	< 4.8	< 5.5	< 5.3	< 5.5	< 4.8	< 6.2	< 5.9	< 5.5
1,1-Dichloroethene	230000	1000000	100	2.5	< 5.2	< 6.7	< 5.2	< 5	< 5.1	< 4.8	**2.2 J//**	**3.1 J//**	**3.3 J//**	< 4.8	< 6.2	< 5.9	< 5.5
1,2,4-Trichlorobenzene	24000	110000	3.3	200	< 5.2	< 6.7	< 5.2	< 5	< 5.1	< 4.8	< 5.5	< 5.3	< 5.5	< 4.8	< 6.2	< 5.9	< 5.5
1,2-Dibromo-3-chloropropane (DBCP)	5.3	64	0.00014	0.086	< 5.2	< 6.7	< 5.2	< 5	< 5.1	< 4.8	< 5.5	< 5.3	< 5.5	< 4.8	< 6.2	< 5.9	< 5.5
1,2-Dibromoethane (EDB)	36	160	0.0021	0.014	< 5.2	< 6.7	< 5.2	< 5	< 5.1	< 4.8	< 5.5	< 5.3	< 5.5	< 4.8	< 6.2	< 5.9	< 5.5
1,2-Dichlorobenzene	1800000	9300000	300	580	< 5.2	< 6.7	< 5.2	< 5	< 5.1	< 4.8	< 5.5	< 5.3	< 5.5	< 4.8	< 6.2	< 5.9	< 5.5
1,2-Dichloroethane	460	2000	0.048	1.4	< 5.2	< 6.7	< 5.2	< 5	< 5.1	< 4.8	< 5.5	< 5.3	< 5.5	< 4.8	< 6.2	< 5.9	< 5.5
1,2-Dichloropropane	1000	4400	0.15	1.7	< 5.2	< 6.7	< 5.2	< 5	< 5.1	< 4.8	< 5.5	< 5.3	< 5.5	< 4.8	< 6.2	< 5.9	< 5.5
1,3-Dichlorobenzene	NS	NS	NS	NS	< 5.2	< 6.7	< 5.2	< 5	< 5.1	< 4.8	< 5.5	< 5.3	< 5.5	< 4.8	< 6.2	< 5.9	< 5.5
1,4-Dichlorobenzene	2600	11000	0.46	72	< 5.2	< 6.7	< 5.2	< 5	< 5.1	< 4.8	< 5.5	< 5.3	< 5.5	< 4.8	< 6.2	< 5.9	< 5.5
2-Butanone (MEK)	27000000	190000000	1200	NS	< 10	< 13	< 10	< 10	< 10	< 9.6	< 11	< 11	< 11	< 9.6	< 12	< 12	< 11
2-Hexanone	200000	1300000	8.8	NS	< 10	< 13	< 10	< 10	< 10	< 9.6	< 11	< 11	< 11	< 9.6	< 12	< 12	< 11
4-Methyl-2-pentanone	5300000	56000000	280	NS	< 10	< 13	< 10	< 10	< 10	< 9.6	< 11	< 11	< 11	< 9.6	< 12	< 12	< 11
Acetone	61000000	670000000	2900	NS	**20 J//**	**51**	< 21	**11 J//**	**15 J//**	**140**	< 22	< 21	< 22	**29**	**39**	< 24	< 22
Benzene	1200	5100	0.23	2.6	< 5.2	< 6.7	< 5.2	< 5	< 5.1	< 4.8	< 5.5	< 5.3	< 5.5	< 4.8	< 6.2	< 5.9	< 5.5
Bromodichloromethane	290	1300	0.036	22	< 5.2	< 6.7	< 5.2	< 5	< 5.1	< 4.8	< 5.5	< 5.3	< 5.5	< 4.8	< 6.2	< 5.9	< 5.5
Bromoform	67000	290000	2.4	21	< 5.2	< 6.7	< 5.2	< 5	< 5.1	< 4.8	< 5.5	< 5.3	< 5.5	< 4.8	< 6.2	< 5.9	< 5.5
Bromomethane (Methyl bromide)	6800	30000	1.9	NS	< 5.2	< 6.7	< 5.2	< 5	< 5.1	< 4.8	< 5.5	< 5.3	< 5.5	< 4.8	< 6.2	< 5.9	< 5.5
Carbon disulfide	770000	3500000	240	NS	< 5.2	< 6.7	< 5.2	< 5	< 5.1	< 4.8	< 5.5	< 5.3	< 5.5	< 4.8	< 6.2	< 5.9	< 5.5
Carbon tetrachloride	650	2900	0.18	1.9	< 5.2	< 6.7	< 5.2	< 5	< 5.1	< 4.8	< 5.5	< 5.3	< 5.5	< 4.8	< 6.2	< 5.9	< 5.5
Chlorobenzene	280000	1300000	53	68	< 5.2	< 6.7	< 5.2	< 5	< 5.1	< 4.8	< 5.5	< 5.3	< 5.5	< 4.8	< 6.2	< 5.9	< 5.5
Chloroethane	14000000	57000000	5900	NS	< 5.2	< 6.7	< 5.2	< 5	< 5.1	< 4.8	< 5.5	< 5.3	< 5.5	< 4.8	< 6.2	< 5.9	< 5.5
Chloroform	320	1400	0.061	22	< 5.2	< 6.7	< 5.2	**1.4 J//**	< 5.1	< 4.8	< 5.5	< 5.3	< 5.5	< 4.8	< 6.2	< 5.9	< 5.5
Chloromethane (Methyl chloride)	110000	460000	49	NS	< 5.2	< 6.7	< 5.2	< 5	< 5.1	< 4.8	< 5.5	< 5.3	< 5.5	< 4.8	< 6.2	< 5.9	< 5.5
cis-1,2-Dichloroethene	160000	2300000	11	21	**32**	**3.9 J//**	**16**	**1.1 J//**	< 5.1	**93**	**260 J//**	**340**	**290 J//**	**1.7 J//**	**25**	**3.4 J//**	**24**
cis-1,3-Dichloropropene	1800	8200	0.17	NS	< 5.2	< 6.7	< 5.2	< 5	< 5.1	< 4.8	< 5.5	< 5.3	< 5.5	< 4.8	< 6.2	< 5.9	< 5.5
Cyclohexane	6500000	27000000	13000	NS	< 5.2	< 6.7	< 5.2	< 5	< 5.1	< 4.8	< 5.5	< 5.3	< 5.5	< 4.8	< 6.2	< 5.9	< 5.5
Dibromochloromethane	730	3200	0.045	21	< 5.2	< 6.7	< 5.2	< 5	< 5.1	< 4.8	< 5.5	< 5.3	< 5.5	< 4.8	< 6.2	< 5.9	< 5.5
Dichlorodifluoromethane	87000	370000	300	NS	< 5.2	< 6.7	< 5.2	< 5	< 5.1	< 4.8	< 5.5	< 5.3	< 5.5	< 4.8	< 6.2	< 5.9	< 5.5
Ethylbenzene	5800	25000	1.7	780	< 5.2	< 6.7	< 5.2	< 5	< 5.1	< 4.8	< 5.5	< 5.3	< 5.5	< 4.8	< 6.2	< 5.9	< 5.5
Isopropylbenzene	1900000	9900000	740	NS	< 5.2	< 6.7	< 5.2	< 5	< 5.1	< 4.8	< 5.5	< 5.3	< 5.5	< 4.8	< 6.2	< 5.9	< 5.5
Methyl acetate	78000000	1200000000	4100	NS	< 5.2	< 6.7	< 5.2	< 5	< 5.1	< 4.8	< 5.5	< 5.3	< 5.5	< 4.8	< 6.2	< 5.9	< 5.5
Methyl tertiary butyl ether (MTBE)	47000	210000	3.2	NS	< 5.2	< 6.7	< 5.2	< 5	< 5.1	< 4.8	< 5.5	< 5.3	< 5.5	< 4.8	< 6.2	< 5.9	< 5.5
Methylcyclohexane	NS	NS	NS	NS	< 5.2	< 6.7	< 5.2	< 5	< 5.1	< 4.8	< 5.5	< 5.3	< 5.5	< 4.8	< 6.2	< 5.9	< 5.5
Methylene chloride	57000	1000000	2.9	1.3	< 5.2	< 6.7	< 5.2	< 5	< 5.1	< 4.8	< 5.5	< 5.3	< 5.5	< 4.8	< 6.2	< 5.9	< 5.5
Styrene	6000000	35000000	1300	110	**5 J//**	**11**	**4.5 J//**	**4.3 J//**	**1.7 J//**	**1.3 J//**	< 5.5	< 5.3	< 5.5	**2.1 J//**	**1.6 J//**	< 5.9	< 5.5
Tetrachloroethene	24000	100000	5.1	2.3	**0.54 J//**	< 6.7	< 5.2	**0.88 J//**	< 5.1	**1.2 J//**	< 5.5	< 5.3	< 5.5	< 4.8	**1.1 J//**	**1 J//**	**2 J//**
Toluene	4900000	47000000	760	690	< 5.2	< 6.7	< 5.2	< 5	< 5.1	< 4.8	< 5.5	< 5.3	< 5.5	< 4.8	< 6.2	< 5.9	< 5.5
trans-1,2-Dichloroethene	1600000	23000000	110	29	< 5.2	< 6.7	< 5.2	< 5	< 5.1	**18**	**13**	**21**	**23**	< 4.8	< 6.2	< 5.9	< 5.5
trans-1,3-Dichloropropene	1800	8200	0.17	NS	< 5.2	< 6.7	< 5.2	< 5	< 5.1	< 4.8	< 5.5	< 5.3	< 5.5	< 4.8	< 6.2	< 5.9	< 5.5
Trichloroethene	940	6000	0.18	1.8	**77**	**8.6**	**62**	**100**	< 5.1	**32**	**120**	**150 J//**	**130 J//**	< 4.8	**100**	**22**	**220 J//**
Trichlorofluoromethane	730000	3100000	730	NS	< 5.2	< 6.7	< 5.2	< 5	< 5.1	< 4.8	< 5.5	< 5.3	< 5.5	< 4.8	< 6.2	< 5.9	< 5.5
Vinyl chloride	59	1700	0.0065	0.69	< 5.2	< 6.7	< 5.2	< 5	< 5.1	< 4.8	< 5.5	**0.97 J//**	< 5.5	< 4.8	< 6.2	< 5.9	< 5.5
Xylenes (total)	580000	2500000	190	9800	< 5.2	< 6.7	< 5.2	< 5	< 5.1	< 4.8	< 5.5	< 5.3	< 5.5	< 4.8	< 6.2	< 5.9	< 5.5

< Indicates not detected at the reporting limit indicated.
J Estimated result < PQL and > MDL.
Bold text with gray background indicates parameter was detected in sample
Bold outline indicates an exceedance of the Risk- or MCL-Based Soil Screening Level (S

Table 2
Summary of Volatile Organic Compound Concentrations in Soil Samples From Main Building
Shakespeare Composite Structures
Newberry, SC

Sample ID			Risk-	MCL-	B-45-12	B-45-25	TMW-21-4	TMW-21-10	TMW-21-14	TMW-22-4	TMW-22-8	TMW-22-12	B-38-4	B-38-8	B-38-12
Laboratory ID	USEPA RSL		Based	Based	PF05058-009	PF05058-010	PE22015-004	PE22015-005	PE22015-006	PE22015-007	PE22015-008	PE22015-009	PF03066-003	PF03066-004	PF03066-005
Date Collected	Residential	Industrial	SSL	SSL	06/05/14	06/05/14	05/21/14	05/21/14	05/21/14	05/21/14	05/21/14	05/21/14	06/03/14	06/03/14	06/03/14
Volatile Organic Compounds by USEPA Method 8260B (µg/kg)															
1,1,1-Trichloroethane	8100000	36000000	2800	70	< 5.3	< 5.6	< 4.5	< 5.7	< 5.1	< 4.9	< 4.1	< 4.8	< 5.4	< 5.7	< 5.7
1,1,2,2-Tetrachloroethane	600	2700	0.03	NS	< 5.3	< 5.6	< 4.5	< 5.7	< 5.1	< 4.9	< 4.1	< 4.8	< 5.4	< 5.7	< 5.7
1,1,2-Trichloro-1,2,2-Trifluoroethane	40000000	170000000	140000	NS	< 5.3	< 5.6	< 4.5	< 5.7	< 5.1	< 4.9	< 4.1	< 4.8	< 5.4	< 5.7	< 5.7
1,1,2-Trichloroethane	1100	5000	0.089	1.6	< 5.3	< 5.6	< 4.5	< 5.7	< 5.1	< 4.9	< 4.1	< 4.8	< 5.4	< 5.7	< 5.7
1,1-Dichloroethane	3600	16000	0.78	NS	< 5.3	< 5.6	< 4.5	< 5.7	< 5.1	< 4.9	< 4.1	< 4.8	< 5.4	< 5.7	< 5.7
1,1-Dichloroethene	230000	1000000	100	2.5	< 5.3	< 5.6	< 4.5	< 5.7	< 5.1	< 4.9	< 4.1	< 4.8	< 5.4	< 5.7	< 5.7
1,2,4-Trichlorobenzene	24000	110000	3.3	200	< 5.3	< 5.6	< 4.5	< 5.7	< 5.1	< 4.9	< 4.1	< 4.8	< 5.4	< 5.7	< 5.7
1,2-Dibromo-3-chloropropane (DBCP)	5.3	64	0.00014	0.086	< 5.3	< 5.6	< 4.5	< 5.7	< 5.1	< 4.9	< 4.1	< 4.8	< 5.4	< 5.7	< 5.7
1,2-Dibromoethane (EDB)	36	160	0.0021	0.014	< 5.3	< 5.6	< 4.5	< 5.7	< 5.1	< 4.9	< 4.1	< 4.8	< 5.4	< 5.7	< 5.7
1,2-Dichlorobenzene	1800000	9300000	300	580	< 5.3	< 5.6	< 4.5	< 5.7	< 5.1	< 4.9	< 4.1	< 4.8	< 5.4	< 5.7	< 5.7
1,2-Dichloroethane	460	2000	0.048	1.4	< 5.3	< 5.6	< 4.5	< 5.7	< 5.1	< 4.9	< 4.1	< 4.8	< 5.4	< 5.7	< 5.7
1,2-Dichloropropane	1000	4400	0.15	1.7	< 5.3	< 5.6	< 4.5	< 5.7	< 5.1	< 4.9	< 4.1	< 4.8	< 5.4	< 5.7	< 5.7
1,3-Dichlorobenzene	NS	NS	NS	NS	< 5.3	< 5.6	< 4.5	< 5.7	< 5.1	< 4.9	< 4.1	< 4.8	< 5.4	< 5.7	< 5.7
1,4-Dichlorobenzene	2600	11000	0.46	72	< 5.3	< 5.6	< 4.5	< 5.7	< 5.1	< 4.9	< 4.1	< 4.8	< 5.4	< 5.7	< 5.7
2-Butanone (MEK)	27000000	190000000	1200	NS	< 11 /J/E	< 11 /J/E	< 9	**14**	< 10	< 9.7	< 8.2	< 9.6	< 11	< 11	< 11
2-Hexanone	200000	1300000	8.8	NS	< 11	< 11	< 9	< 11	< 10	< 9.7	< 8.2	< 9.6	< 11	< 11	< 11
4-Methyl-2-pentanone	5300000	56000000	280	NS	< 11	< 11	< 9	< 11	< 10	< 9.7	< 8.2	< 9.6	< 11	< 11	< 11
Acetone	61000000	670000000	2900	NS	**24 /J/E**	< 23 /J/E	< 18	**87**	**19 J//**	**22**	**40**	< 19	**33**	< 23	< 23
Benzene	1200	5100	0.23	2.6	< 5.3	< 5.6	< 4.5	< 5.7	< 5.1	< 4.9	< 4.1	< 4.8	< 5.4	< 5.7	< 5.7
Bromodichloromethane	290	1300	0.036	22	< 5.3	< 5.6	< 4.5	< 5.7	< 5.1	< 4.9	< 4.1	< 4.8	< 5.4	< 5.7	< 5.7
Bromoform	67000	290000	2.4	21	< 5.3	< 5.6	< 4.5	< 5.7	< 5.1	< 4.9	< 4.1	< 4.8	< 5.4	< 5.7	< 5.7
Bromomethane (Methyl bromide)	6800	30000	1.9	NS	< 5.3	< 5.6	< 4.5	< 5.7	< 5.1	< 4.9	< 4.1	< 4.8	< 5.4	< 5.7	< 5.7
Carbon disulfide	770000	3500000	240	NS	< 5.3	< 5.6	< 4.5	< 5.7	< 5.1	< 4.9	< 4.1	< 4.8	< 5.4	< 5.7	< 5.7
Carbon tetrachloride	650	2900	0.18	1.9	< 5.3	< 5.6	< 4.5	< 5.7	< 5.1	< 4.9	< 4.1	< 4.8	< 5.4	< 5.7	< 5.7
Chlorobenzene	280000	1300000	53	68	< 5.3	< 5.6	< 4.5	< 5.7	< 5.1	< 4.9	< 4.1	< 4.8	< 5.4	< 5.7	< 5.7
Chloroethane	14000000	57000000	5900	NS	< 5.3	< 5.6	< 4.5	< 5.7	< 5.1	< 4.9	< 4.1	< 4.8	< 5.4	< 5.7	< 5.7
Chloroform	320	1400	0.061	22	< 5.3	< 5.6	< 4.5	< 5.7	< 5.1	< 4.9	< 4.1	< 4.8	< 5.4	**1.3 J//**	**5.4 J//**
Chloromethane (Methyl chloride)	110000	460000	49	NS	< 5.3	< 5.6	< 4.5	< 5.7	< 5.1	< 4.9	< 4.1	< 4.8	< 5.4	< 5.7	< 5.7
cis-1,2-Dichloroethene	160000	2300000	11	21	**9.7**	**39**	< 4.5	**35**	**28**	< 4.9	**13**	**35**	**48**	**8.6**	**58**
cis-1,3-Dichloropropene	1800	8200	0.17	NS	< 5.3	< 5.6	< 4.5	< 5.7	< 5.1	< 4.9	< 4.1	< 4.8	< 5.4	< 5.7	< 5.7
Cyclohexane	6500000	27000000	13000	NS	< 5.3	< 5.6	< 4.5	< 5.7	< 5.1	< 4.9	< 4.1	< 4.8	< 5.4	< 5.7	< 5.7
Dibromochloromethane	730	3200	0.045	21	< 5.3	< 5.6	< 4.5	< 5.7	< 5.1	< 4.9	< 4.1	< 4.8	< 5.4	< 5.7	< 5.7
Dichlorodifluoromethane	87000	370000	300	NS	< 5.3	< 5.6	< 4.5	< 5.7	< 5.1	< 4.9	< 4.1	< 4.8	< 5.4	< 5.7	< 5.7
Ethylbenzene	5800	25000	1.7	780	< 5.3	< 5.6	< 4.5	**6.3**	< 5.1	< 4.9	< 4.1	< 4.8	< 5.4	< 5.7	< 5.7
Isopropylbenzene	1900000	9900000	740	NS	< 5.3	< 5.6	< 4.5	< 5.7	< 5.1	< 4.9	< 4.1	< 4.8	< 5.4	< 5.7	< 5.7
Methyl acetate	78000000	1200000000	4100	NS	< 5.3 /J/E	< 5.6 /J/E	< 4.5	< 5.7	< 5.1	< 4.9	< 4.1	< 4.8	< 5.4	< 5.7	< 5.7
Methyl tertiary butyl ether (MTBE)	47000	210000	3.2	NS	< 5.3	< 5.6	< 4.5	< 5.7	< 5.1	< 4.9	< 4.1	< 4.8	< 5.4	< 5.7	< 5.7
Methylcyclohexane	NS	NS	NS	NS	< 5.3	< 5.6	< 4.5	< 5.7	< 5.1	< 4.9	< 4.1	< 4.8	< 5.4	< 5.7	< 5.7
Methylene chloride	57000	1000000	2.9	1.3	< 5.3	< 5.6	< 4.5	< 5.7	< 5.1	< 4.9	< 4.1	< 4.8	< 5.4	< 5.7	< 5.7
Styrene	6000000	35000000	1300	110	< 5.3	< 5.6	< 4.5	**1.4 J//**	< 5.1	< 4.9	< 4.1	**2.3 J//**	< 5.4	< 5.7	< 5.7
Tetrachloroethene	24000	100000	5.1	2.3	< 5.3	< 5.6	< 4.5	< 5.7	< 5.1	< 4.9	**0.48 J//**	**1.1 J//**	**0.62 J//**	< 5.7	**0.88 J//**
Toluene	4900000	47000000	760	690	< 5.3	< 5.6	< 4.5	**2.3 J//**	< 5.1	< 4.9	< 4.1	< 4.8	< 5.4	< 5.7	< 5.7
trans-1,2-Dichloroethene	1600000	23000000	110	29	< 5.3	< 5.6	< 4.5	**27**	**9.1**	< 4.9	< 4.1	< 4.8	< 5.4	< 5.7	< 5.7
trans-1,3-Dichloropropene	1800	8200	0.17	NS	< 5.3	< 5.6	< 4.5	< 5.7	< 5.1	< 4.9	< 4.1	< 4.8	< 5.4	< 5.7	< 5.7
Trichloroethene	940	6000	0.18	1.8	**6.7**	**10**	< 4.5	**69**	**29**	< 4.9	**57**	**180**	**110**	**21**	**130**
Trichlorofluoromethane	730000	3100000	730	NS	< 5.3	< 5.6	< 4.5	< 5.7	< 5.1	< 4.9	< 4.1	< 4.8	< 5.4	< 5.7	< 5.7
Vinyl chloride	59	1700	0.0065	0.69	< 5.3	< 5.6	< 4.5	< 5.7	< 5.1	< 4.9	< 4.1	< 4.8	< 5.4	< 5.7	< 5.7
Xylenes (total)	580000	2500000	190	9800	< 5.3	< 5.6	< 4.5	< 5.7	< 5.1	< 4.9	< 4.1	< 4.8	< 5.4	< 5.7	< 5.7

< Indicates not detected at the reporting limit indicated.
J Estimated result < PQL and > MDL.
Bold text with gray background indicates parameter was detected in sample
Bold outline indicates an exceedance of the Risk- or MCL-Based Soil Screening Level (S

Table 3
Summary of Volatile Organic Compound Concentrations in Soil Samples From Pole Winder Building
Shakespeare Composite Structures
Newberry, SC

Sample ID			Risk-	MCL-	B-34-2	B-34-10	B-34-13	B-35-6	B-35-11	B-35-14	B-36-6
Laboratory ID	USEPA RSL		Based	Based	PE28056-005	PE28056-006	PE28056-007	PE29055-004	PE29055-005	PE29055-006	PE29055-001
Date Collected	Residential	Industrial	SSL	SSL	05/28/14	05/28/14	05/28/14	05/29/14	05/29/14	05/29/14	05/29/14
Volatile Organic Compounds by USEPA Method 8260B (µg/kg)											
1,1,1-Trichloroethane	8100000	36000000	2800	70	< 5.1	< 5.4	< 6	< 6.2	< 5.6	< 6	< 5.7
1,1,2,2-Tetrachloroethane	600	2700	0.03	NS	< 5.1	< 5.4	< 6	< 6.2	< 5.6	< 6	< 5.7
1,1,2-Trichloro-1,2,2-Trifluoroethane	40000000	170000000	140000	NS	< 5.1	< 5.4	< 6	< 6.2	< 5.6	< 6	< 5.7
1,1,2-Trichloroethane	1100	5000	0.089	1.6	< 5.1	< 5.4	< 6	< 6.2	< 5.6	< 6	< 5.7
1,1-Dichloroethane	3600	16000	0.78	NS	< 5.1	< 5.4	< 6	< 6.2	< 5.6	< 6	< 5.7
1,1-Dichloroethene	230000	1000000	100	2.5	< 5.1	< 5.4	< 6	< 6.2	< 5.6	< 6	< 5.7
1,2,4-Trichlorobenzene	24000	110000	3.3	200	< 5.1	< 5.4	< 6	< 6.2	< 5.6	< 6	< 5.7
1,2-Dibromo-3-chloropropane (DBCP)	5.3	64	0.00014	0.086	< 5.1	< 5.4	< 6	< 6.2	< 5.6	< 6	< 5.7
1,2-Dibromoethane (EDB)	36	160	0.0021	0.014	< 5.1	< 5.4	< 6	< 6.2	< 5.6	< 6	< 5.7
1,2-Dichlorobenzene	1800000	9300000	300	580	< 5.1	< 5.4	< 6	< 6.2	< 5.6	< 6	< 5.7
1,2-Dichloroethane	460	2000	0.048	1.4	< 5.1	< 5.4	< 6	< 6.2	< 5.6	< 6	< 5.7
1,2-Dichloropropane	1000	4400	0.15	1.7	< 5.1	< 5.4	< 6	< 6.2	< 5.6	< 6	< 5.7
1,3-Dichlorobenzene	NS	NS	NS	NS	< 5.1	< 5.4	< 6	< 6.2	< 5.6	< 6	< 5.7
1,4-Dichlorobenzene	2600	11000	0.46	72	< 5.1	< 5.4	< 6	< 6.2	< 5.6	< 6	< 5.7
2-Butanone (MEK)	27000000	190000000	1200	NS	< 10	< 11	< 12	< 12	< 11	< 12	< 11
2-Hexanone	200000	1300000	8.8	NS	< 10	< 11	< 12	< 12	< 11	< 12	< 11
4-Methyl-2-pentanone	5300000	56000000	280	NS	< 10	< 11	< 12	< 12	< 11	< 12	< 11
Acetone	61000000	670000000	2900	NS	**43**	**24**	**15 J//**	**11 J//**	**18 J//**	**9.7 J//**	**27**
Benzene	1200	5100	0.23	2.6	< 5.1	< 5.4	< 6	< 6.2	< 5.6	< 6	< 5.7
Bromodichloromethane	290	1300	0.036	22	< 5.1	< 5.4	< 6	< 6.2	< 5.6	< 6	< 5.7
Bromoform	67000	290000	2.4	21	< 5.1	< 5.4	< 6	< 6.2	< 5.6	< 6	< 5.7
Bromomethane (Methyl bromide)	6800	30000	1.9	NS	< 5.1	< 5.4	< 6	< 6.2	< 5.6	< 6	< 5.7
Carbon disulfide	770000	3500000	240	NS	< 5.1	< 5.4	< 6	< 6.2	< 5.6	< 6	< 5.7
Carbon tetrachloride	650	2900	0.18	1.9	< 5.1	< 5.4	< 6	< 6.2	< 5.6	< 6	< 5.7
Chlorobenzene	280000	1300000	53	68	< 5.1	< 5.4	< 6	< 6.2	< 5.6	< 6	< 5.7
Chloroethane	14000000	57000000	5900	NS	< 5.1	< 5.4	< 6	< 6.2	< 5.6	< 6	< 5.7
Chloroform	320	1400	0.061	22	< 5.1	**1.4 J//**	< 6	< 6.2	< 5.6	< 6	< 5.7
Chloromethane (Methyl chloride)	110000	460000	49	NS	< 5.1	< 5.4	< 6	< 6.2	< 5.6	< 6	< 5.7
cis-1,2-Dichloroethene	160000	2300000	11	21	< 5.1	< 5.4	< 6	< 6.2	< 5.6	< 6	< 5.7
cis-1,3-Dichloropropene	1800	8200	0.17	NS	< 5.1	< 5.4	< 6	< 6.2	< 5.6	< 6	< 5.7
Cyclohexane	6500000	27000000	13000	NS	< 5.1	< 5.4	< 6	< 6.2	< 5.6	< 6	< 5.7
Dibromochloromethane	730	3200	0.045	21	< 5.1	< 5.4	< 6	< 6.2	< 5.6	< 6	< 5.7
Dichlorodifluoromethane	87000	370000	300	NS	< 5.1	< 5.4	< 6	< 6.2	< 5.6	< 6	< 5.7
Ethylbenzene	5800	25000	1.7	780	< 5.1	< 5.4	< 6	< 6.2	< 5.6	< 6	< 5.7
Isopropylbenzene	1900000	9900000	740	NS	< 5.1	< 5.4	< 6	< 6.2	< 5.6	< 6	< 5.7
Methyl acetate	78000000	1.2E+09	4100	NS	< 5.1	< 5.4	< 6	< 6.2	< 5.6	< 6	< 5.7
Methyl tertiary butyl ether (MTBE)	47000	210000	3.2	NS	< 5.1	< 5.4	< 6	< 6.2	< 5.6	< 6	< 5.7
Methylcyclohexane	NS	NS	NS	NS	< 5.1	< 5.4	< 6	< 6.2	< 5.6	< 6	< 5.7
Methylene chloride	57000	1000000	2.9	1.3	< 5.1	< 5.4	< 6	< 6.2	< 5.6	< 6	< 5.7
Styrene	6000000	35000000	1300	110	< 5.1	**1.9 J//**	< 6	< 6.2	< 5.6	< 6	< 5.7
Tetrachloroethene	24000	100000	5.1	2.3	< 5.1	< 5.4	< 6	< 6.2	< 5.6	< 6	< 5.7
Toluene	4900000	47000000	760	690	< 5.1	< 5.4	< 6	< 6.2	< 5.6	< 6	< 5.7
trans-1,2-Dichloroethene	1600000	23000000	110	29	< 5.1	< 5.4	< 6	< 6.2	< 5.6	< 6	< 5.7
trans-1,3-Dichloropropene	1800	8200	0.17	NS	< 5.1	< 5.4	< 6	< 6.2	< 5.6	< 6	< 5.7
Trichloroethene	940	6000	0.18	1.8	< 5.1	**2.6 J//**	**4.3 J//**	< 6.2	< 5.6	< 6	< 5.7
Trichlorofluoromethane	730000	3100000	730	NS	< 5.1	< 5.4	< 6	< 6.2	< 5.6	< 6	< 5.7
Vinyl chloride	59	1700	0.0065	0.69	< 5.1	< 5.4	< 6	< 6.2	< 5.6	< 6	< 5.7
Xylenes (total)	580000	2500000	190	9800	< 5.1	< 5.4	< 6	< 6.2	< 5.6	< 6	< 5.7

< Indicates not detected at the reporting limit indicated.
J Estimated result < PQL and > MDL.
Bold text with gray background indicates parameter was detected in sample
Bold outline indicates an exceedance of the Risk- or MCL-Based Soil Screening Level (SSL).

Table 3
Summary of Volatile Organic Compound Concentrations in Soil Samples From Pole Winder Building
Shakespeare Composite Structures
Newberry, SC

May- June 2014

Sample ID / Laboratory ID / Date Collected	USEPA RSL Residential	USEPA RSL Industrial	Risk-Based SSL	MCL-Based SSL	B-36-11 PE29055-002 05/29/14	B-36-14 PE29055-003 05/29/14	B-37-7 PE29055-007 05/29/14	B-37-10 PE29055-008 05/29/14	B-37-12 PE29055-009 05/29/14	B-42-4 PF04097-007 06/04/14	B-42-7 PF04097-008 06/04/14
Volatile Organic Compounds by USEPA Method 8260B (µg/kg)											
1,1,1-Trichloroethane	8100000	36000000	2800	70	< 5.8	< 6.3	< 5.7	< 5.7	< 6	< 240	< 280
1,1,2,2-Tetrachloroethane	600	2700	0.03	NS	< 5.8	< 6.3	< 5.7	< 5.7	< 6	< 240	< 280
1,1,2-Trichloro-1,2,2-Trifluoroethane	40000000	170000000	140000	NS	< 5.8	< 6.3	< 5.7	< 5.7	< 6	< 240	< 280
1,1,2-Trichloroethane	1100	5000	0.089	1.6	< 5.8	< 6.3	< 5.7	< 5.7	< 6	< 240	< 280
1,1-Dichloroethane	3600	16000	0.78	NS	< 5.8	< 6.3	< 5.7	< 5.7	< 6	< 240	< 280
1,1-Dichloroethene	230000	1000000	100	2.5	< 5.8	< 6.3	< 5.7	< 5.7	< 6	< 240	< 280
1,2,4-Trichlorobenzene	24000	110000	3.3	200	< 5.8	< 6.3	< 5.7	< 5.7	< 6	< 240	< 280
1,2-Dibromo-3-chloropropane (DBCP)	5.3	64	0.00014	0.086	< 5.8	< 6.3	< 5.7	< 5.7	< 6	< 240	< 280
1,2-Dibromoethane (EDB)	36	160	0.0021	0.014	< 5.8	< 6.3	< 5.7	< 5.7	< 6	< 240	< 280
1,2-Dichlorobenzene	1800000	9300000	300	580	< 5.8	< 6.3	< 5.7	< 5.7	< 6	< 240	< 280
1,2-Dichloroethane	460	2000	0.048	1.4	< 5.8	< 6.3	< 5.7	< 5.7	< 6	< 240	< 280
1,2-Dichloropropane	1000	4400	0.15	1.7	< 5.8	< 6.3	< 5.7	< 5.7	< 6	< 240	< 280
1,3-Dichlorobenzene	NS	NS	NS	NS	< 5.8	< 6.3	< 5.7	< 5.7	< 6	< 240	< 280
1,4-Dichlorobenzene	2600	11000	0.46	72	< 5.8	< 6.3	< 5.7	< 5.7	< 6	< 240	< 280
2-Butanone (MEK)	27000000	190000000	1200	NS	< 12	< 13	< 11	**4.4 J//**	< 12	< 490	< 570
2-Hexanone	200000	1300000	8.8	NS	< 12	< 13	< 11	< 11	< 12	< 490	< 570
4-Methyl-2-pentanone	5300000	56000000	280	NS	< 12	< 13	< 11	< 11	< 12	< 490	< 570
Acetone	61000000	670000000	2900	NS	**23**	**20 J//**	**11 J//**	**23**	< 24	< 970	< 1100
Benzene	1200	5100	0.23	2.6	< 5.8	< 6.3	< 5.7	< 5.7	< 6	< 240	< 280
Bromodichloromethane	290	1300	0.036	22	< 5.8	< 6.3	< 5.7	< 5.7	< 6	< 240	< 280
Bromoform	67000	290000	2.4	21	< 5.8	< 6.3	< 5.7	< 5.7	< 6	< 240	< 280
Bromomethane (Methyl bromide)	6800	30000	1.9	NS	< 5.8	< 6.3	< 5.7	< 5.7	< 6	< 240	< 280
Carbon disulfide	770000	3500000	240	NS	< 5.8	< 6.3	< 5.7	< 5.7	< 6	< 240	< 280
Carbon tetrachloride	650	2900	0.18	1.9	< 5.8	< 6.3	< 5.7	< 5.7	< 6	< 240	< 280
Chlorobenzene	280000	1300000	53	68	< 5.8	< 6.3	< 5.7	< 5.7	< 6	< 240	< 280
Chloroethane	14000000	57000000	5900	NS	< 5.8	< 6.3	< 5.7	< 5.7	< 6	< 240	< 280
Chloroform	320	1400	0.061	22	< 5.8	< 6.3	< 5.7	< 5.7	< 6	< 240	< 280
Chloromethane (Methyl chloride)	110000	460000	49	NS	< 5.8	< 6.3	< 5.7	< 5.7	< 6	< 240	< 280
cis-1,2-Dichloroethene	160000	2300000	11	21	< 5.8	< 6.3	< 5.7	< 5.7	< 6	< 240	< 280
cis-1,3-Dichloropropene	1800	8200	0.17	NS	< 5.8	< 6.3	< 5.7	< 5.7	< 6	< 240	< 280
Cyclohexane	6500000	27000000	13000	NS	< 5.8	< 6.3	< 5.7	< 5.7	< 6	< 240	< 280
Dibromochloromethane	730	3200	0.045	21	< 5.8	< 6.3	< 5.7	< 5.7	< 6	< 240	< 280
Dichlorodifluoromethane	87000	370000	300	NS	< 5.8	< 6.3	< 5.7	< 5.7	< 6	< 240	< 280
Ethylbenzene	5800	25000	1.7	780	< 5.8	< 6.3	< 5.7	< 5.7	< 6	< 240	< 280
Isopropylbenzene	1900000	9900000	740	NS	< 5.8	< 6.3	< 5.7	< 5.7	< 6	< 240	< 280
Methyl acetate	78000000	1.2E+09	4100	NS	< 5.8	< 6.3	< 5.7	< 5.7	< 6	< 240	< 280
Methyl tertiary butyl ether (MTBE)	47000	210000	3.2	NS	< 5.8	< 6.3	< 5.7	< 5.7	< 6	< 240	< 280
Methylcyclohexane	NS	NS	NS	NS	< 5.8	< 6.3	< 5.7	< 5.7	< 6	< 240	< 280
Methylene chloride	57000	1000000	2.9	1.3	< 5.8	< 6.3	< 5.7	< 5.7	< 6	< 240	< 280
Styrene	6000000	35000000	1300	110	< 5.8	< 6.3	< 5.7	< 5.7	< 6	< 240	< 280
Tetrachloroethene	24000	100000	5.1	2.3	< 5.8	< 6.3	< 5.7	< 5.7	< 6	< 240	< 280
Toluene	4900000	47000000	760	690	< 5.8	< 6.3	< 5.7	< 5.7	< 6	< 240	< 280
trans-1,2-Dichloroethene	1600000	23000000	110	29	< 5.8	< 6.3	< 5.7	< 5.7	< 6	< 240	< 280
trans-1,3-Dichloropropene	1800	8200	0.17	NS	< 5.8	< 6.3	< 5.7	< 5.7	< 6	< 240	< 280
Trichloroethene	940	6000	0.18	1.8	< 5.8	< 6.3	< 5.7	< 5.7	< 6	< 240	< 280
Trichlorofluoromethane	730000	3100000	730	NS	< 5.8	< 6.3	< 5.7	< 5.7	< 6	< 240	< 280
Vinyl chloride	59	1700	0.0065	0.69	< 5.8	< 6.3	< 5.7	< 5.7	< 6	< 240	< 280
Xylenes (total)	580000	2500000	190	9800	< 5.8	< 6.3	< 5.7	< 5.7	< 6	< 240	< 280

< Indicates not detected at the reporting limit indicated.

J Estimated result < PQL and > MDL.

Bold text with gray background indicates parameter was detected in sample

Bold outline indicates an exceedance of the Risk- or MCL-Based Soil Screening Level (SS

Table 3
Summary of Volatile Organic Compound Concentrations in Soil Samples From Pole Winder Building
Shakespeare Composite Structures
Newberry, SC

Sample ID			Risk-	MCL-	B-42-12	B-43-2	B-43-10	B-43-14	B-44-3	B-44-8	B-44-14
Laboratory ID	USEPA RSL		Based	Based	PF04097-009	PF05058-001	PF05058-002	PF05058-003	PF05058-004	PF05058-005	PF05058-006
Date Collected	Residential	Industrial	SSL	SSL	06/04/14	06/05/14	06/05/14	06/05/14	06/05/14	06/05/14	06/05/14
Volatile Organic Compounds by USEPA Method 8260B (µg/kg)											
1,1,1-Trichloroethane	8100000	36000000	2800	70	< 300	< 5.7	< 5.9	< 5.4	< 5.3	< 4.4	< 5.6
1,1,2,2-Tetrachloroethane	600	2700	0.03	NS	< 300	< 5.7	< 5.9	< 5.4	< 5.3	< 4.4	< 5.6
1,1,2-Trichloro-1,2,2-Trifluoroethane	40000000	170000000	140000	NS	< 300	< 5.7	< 5.9	< 5.4	< 5.3	< 4.4	< 5.6
1,1,2-Trichloroethane	1100	5000	0.089	1.6	< 300	< 5.7	< 5.9	< 5.4	< 5.3	< 4.4	< 5.6
1,1-Dichloroethane	3600	16000	0.78	NS	< 300	< 5.7	< 5.9	< 5.4	< 5.3	< 4.4	< 5.6
1,1-Dichloroethene	230000	1000000	100	2.5	< 300	< 5.7	< 5.9	< 5.4	< 5.3	< 4.4	< 5.6
1,2,4-Trichlorobenzene	24000	110000	3.3	200	< 300	< 5.7	< 5.9	< 5.4	< 5.3	< 4.4	< 5.6
1,2-Dibromo-3-chloropropane (DBCP)	5.3	64	0.00014	0.086	< 300	< 5.7	< 5.9	< 5.4	< 5.3	< 4.4	< 5.6
1,2-Dibromoethane (EDB)	36	160	0.0021	0.014	< 300	< 5.7	< 5.9	< 5.4	< 5.3	< 4.4	< 5.6
1,2-Dichlorobenzene	1800000	9300000	300	580	< 300	< 5.7	< 5.9	< 5.4	< 5.3	< 4.4	< 5.6
1,2-Dichloroethane	460	2000	0.048	1.4	< 300	< 5.7	< 5.9	< 5.4	< 5.3	< 4.4	< 5.6
1,2-Dichloropropane	1000	4400	0.15	1.7	< 300	< 5.7	< 5.9	< 5.4	< 5.3	< 4.4	< 5.6
1,3-Dichlorobenzene	NS	NS	NS	NS	< 300	< 5.7	< 5.9	< 5.4	< 5.3	< 4.4	< 5.6
1,4-Dichlorobenzene	2600	11000	0.46	72	< 300	< 5.7	< 5.9	< 5.4	< 5.3	< 4.4	< 5.6
2-Butanone (MEK)	27000000	190000000	1200	NS	< 610	< 11 /J/E	< 12 /J/E	< 11 /J/E	< 11 /J/E	**4.8 J/J/E**	< 11 /J/E
2-Hexanone	200000	1300000	8.8	NS	< 610	< 11	< 12	< 11	< 11	< 8.9	< 11
4-Methyl-2-pentanone	5300000	56000000	280	NS	< 610	< 11	< 12	< 11	< 11	< 8.9	< 11
Acetone	61000000	670000000	2900	NS	< 1200	< 23 /J/E	< 24 /J/E	< 22 /J/E	**16 J/J/E**	**55 /J/E**	< 22 /J/E
Benzene	1200	5100	0.23	2.6	< 300	< 5.7	< 5.9	< 5.4	< 5.3	< 4.4	< 5.6
Bromodichloromethane	290	1300	0.036	22	< 300	< 5.7	< 5.9	< 5.4	< 5.3	< 4.4	< 5.6
Bromoform	67000	290000	2.4	21	< 300	< 5.7	< 5.9	< 5.4	< 5.3	< 4.4	< 5.6
Bromomethane (Methyl bromide)	6800	30000	1.9	NS	< 300	< 5.7	< 5.9	< 5.4	< 5.3	< 4.4	< 5.6
Carbon disulfide	770000	3500000	240	NS	< 300	< 5.7	< 5.9	< 5.4	< 5.3	< 4.4	< 5.6
Carbon tetrachloride	650	2900	0.18	1.9	< 300	< 5.7	< 5.9	< 5.4	< 5.3	< 4.4	< 5.6
Chlorobenzene	280000	1300000	53	68	< 300	< 5.7	< 5.9	< 5.4	< 5.3	< 4.4	< 5.6
Chloroethane	14000000	57000000	5900	NS	< 300	< 5.7	< 5.9	< 5.4	< 5.3	< 4.4	< 5.6
Chloroform	320	1400	0.061	22	< 300	< 5.7	< 5.9	< 5.4	< 5.3	< 4.4	< 5.6
Chloromethane (Methyl chloride)	110000	460000	49	NS	< 300	< 5.7	< 5.9	< 5.4	< 5.3	< 4.4	< 5.6
cis-1,2-Dichloroethene	160000	2300000	11	21	< 300	< 5.7	< 5.9	< 5.4	< 5.3	< 4.4	< 5.6
cis-1,3-Dichloropropene	1800	8200	0.17	NS	< 300	< 5.7	< 5.9	< 5.4	< 5.3	< 4.4	< 5.6
Cyclohexane	6500000	27000000	13000	NS	< 300	< 5.7	< 5.9	< 5.4	< 5.3	< 4.4	< 5.6
Dibromochloromethane	730	3200	0.045	21	< 300	< 5.7	< 5.9	< 5.4	< 5.3	< 4.4	< 5.6
Dichlorodifluoromethane	87000	370000	300	NS	< 300	< 5.7	< 5.9	< 5.4	< 5.3	< 4.4	< 5.6
Ethylbenzene	5800	25000	1.7	780	< 300	< 5.7	< 5.9	< 5.4	< 5.3	< 4.4	< 5.6
Isopropylbenzene	1900000	9900000	740	NS	< 300	< 5.7	< 5.9	< 5.4	< 5.3	< 4.4	< 5.6
Methyl acetate	78000000	1.2E+09	4100	NS	< 300	< 5.7 /J/E	< 5.9 /J/E	< 5.4 /J/E	< 5.3 /J/E	< 4.4 /J/E	< 5.6 /J/E
Methyl tertiary butyl ether (MTBE)	47000	210000	3.2	NS	< 300	< 5.7	< 5.9	< 5.4	< 5.3	< 4.4	< 5.6
Methylcyclohexane	NS	NS	NS	NS	< 300	< 5.7	< 5.9	< 5.4	< 5.3	< 4.4	< 5.6
Methylene chloride	57000	1000000	2.9	1.3	< 300	< 5.7	< 5.9	< 5.4	< 5.3	< 4.4	< 5.6
Styrene	6000000	35000000	1300	110	< 300	< 5.7	< 5.9	< 5.4	< 5.3	< 4.4	< 5.6
Tetrachloroethene	24000	100000	5.1	2.3	< 300	< 5.7	< 5.9	< 5.4	< 5.3	< 4.4	< 5.6
Toluene	4900000	47000000	760	690	< 300	< 5.7	< 5.9	< 5.4	< 5.3	< 4.4	< 5.6
trans-1,2-Dichloroethene	1600000	23000000	110	29	< 300	< 5.7	< 5.9	< 5.4	< 5.3	< 4.4	< 5.6
trans-1,3-Dichloropropene	1800	8200	0.17	NS	< 300	< 5.7	< 5.9	< 5.4	< 5.3	< 4.4	< 5.6
Trichloroethene	940	6000	0.18	1.8	< 300	< 5.7	< 5.9	< 5.4	< 5.3	< 4.4	**14**
Trichlorofluoromethane	730000	3100000	730	NS	< 300	< 5.7	< 5.9	< 5.4	< 5.3	< 4.4	< 5.6
Vinyl chloride	59	1700	0.0065	0.69	< 300	< 5.7	< 5.9	< 5.4	< 5.3	< 4.4	< 5.6
Xylenes (total)	580000	2500000	190	9800	< 300	< 5.7	< 5.9	< 5.4	< 5.3	< 4.4	< 5.6

< Indicates not detected at the reporting limit indicated.
J Estimated result < PQL and > MDL.
Bold text with gray background indicates parameter was detected in sample
Bold outline indicates an exceedance of the Risk- or MCL-Based Soil Screening Level (SS

Table 4
Summary of Volatile Organic Compounds in Groundwater
Shakespeare
Newberry, South Carolina

Sample ID		MW-1-20140411	MW-1	MW-1	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-8	MW-9	TMW-9	TMW-10	TMW-11	TMW-12
Laboratory ID	USEPA	PD12011-001	PD23036-001	PE22065-001	PF11017-004	PD23036-002	PD23036-003	PD23036-004	PD23036-005	PE22065-003	PE22065-002	PD23036-008	PE22065-004	PD23036-009	PD08080-001	PD08080-002	PD08080-003	PD09069-001
Date Collected	MCL	04/11/14	04/22/14	05/22/14	06/11/14	04/22/14	04/22/14	04/22/14	04/22/14	05/22/14	05/22/14	04/23/14	05/22/14	04/23/14	04/08/14	04/08/14	04/08/14	04/09/14
Volatile Organic Compounds by USEPA Method 8260B (µg/L)																		
1,1,1-Trichloroethane	200	< 5	< 5	< 5	NA	< 5	< 5	< 5	< 5	< 50	< 5	< 50	< 50	< 50	< 5	< 5	< 5	< 5
1,1,2,2-Tetrachloroethane	NS	< 5	< 5	< 5	NA	< 5	< 5	< 5	< 5	< 50	< 5	< 50	< 50	< 50	< 5	< 5	< 5	< 5
1,1,2-Trichloro-1,2,2-Trifluoroethane	NS	< 5	< 5	< 5	NA	< 5	< 5	< 5	< 5	< 50	< 5	< 50	< 50	< 50	< 5	< 5	< 5	< 5
1,1,2-Trichloroethane	5	< 5	< 5	< 5	NA	< 5	< 5	< 5	< 5	< 50	< 5	< 50	< 50	< 50	< 5	< 5	< 5	< 5
1,1-Dichloroethane	NS	< 5	< 5	< 5	NA	< 5	< 5	< 5	< 5	< 50	**1.5 J//**	< 50	< 50	< 50	< 5	< 5	< 5	< 5
1,1-Dichloroethene	7	< 5	< 5	< 5	< 50	< 5	< 5	< 5	< 5	< 50	**1.9 J//**	< 50	< 50	< 50	< 5	< 5	< 5	< 5
1,2,4-Trichlorobenzene	70	< 5	< 5	< 5	NA	< 5	< 5	< 5	< 5	< 50	< 5	< 50	< 50	< 50	< 5	< 5	< 5	< 5
1,2-Dibromo-3-chloropropane (DBCP)	0.2	< 5	< 5	< 5	NA	< 5	< 5	< 5	< 5	< 50	< 5	< 50	< 50	< 50	< 5	< 5	< 5	< 5
1,2-Dibromoethane (EDB)	0.05	< 5	< 5	< 5	NA	< 5	< 5	< 5	< 5	< 50	< 5	< 50	< 50	< 50	< 5	< 5	< 5	< 5
1,2-Dichlorobenzene	600	< 5	< 5	< 5	NA	< 5	< 5	< 5	< 5	< 50	< 5	< 50	< 50	< 50	< 5	< 5	< 5	< 5
1,2-Dichloroethane	5	< 5	< 5	< 5	< 50	< 5	< 5	< 5	< 5	< 50	< 5	< 50	< 50	< 50	< 5	< 5	< 5	< 5
1,2-Dichloropropane	5	< 5	< 5	< 5	NA	< 5	< 5	< 5	< 5	< 50	< 5	< 50	< 50	< 50	< 5	< 5	< 5	< 5
1,3-Dichlorobenzene	NS	< 5	< 5	< 5	NA	< 5	< 5	< 5	< 5	< 50	< 5	< 50	< 50	< 50	< 5	< 5	< 5	< 5
1,4-Dichlorobenzene	75	< 5	< 5	< 5	NA	< 5	< 5	< 5	< 5	< 50	< 5	< 50	< 50	< 50	< 5	< 5	< 5	< 5
2-Butanone (MEK)	NS	< 10	< 10	< 10	< 100	< 10	< 10	< 10	< 10	< 100	< 10	< 100	< 100	< 100	< 10	< 10	< 10	< 10
2-Hexanone	NS	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 100	< 10	< 100	< 100	< 100	< 10	< 10	< 10	< 10
4-Methyl-2-pentanone	NS	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 100	< 10	< 100	< 100	< 100	< 10	< 10	< 10	< 10
Acetone	NS	**610 H//h**	< 20	< 20	NA	< 20	< 20	< 20	< 20	< 200	< 20	< 200	< 200	< 200	< 20 /J/E	< 20 /J/E	< 20 /J/E	< 20 /J/E
Benzene	5	< 5	< 5	< 5	< 50	< 5	< 5	< 5	< 5	< 50	**0.29 J//**	< 50	< 50	< 50	< 5	< 5	< 5	< 5
Bromodichloromethane	80 [1]	< 5	< 5	< 5	NA	< 5	< 5	< 5	< 5	< 50	< 5	< 50	< 50	< 50	< 5	< 5	< 5	< 5
Bromoform	80 [1]	< 5	< 5	< 5	NA	< 5	< 5	< 5	< 5	< 50	< 5	< 50	< 50	< 50	< 5	< 5	< 5	< 5
Bromomethane (Methyl bromide)	NS	< 5	< 5	< 5	NA	< 5	< 5	< 5	< 5	< 50	< 5	< 50	< 50	< 50	< 5	< 5	< 5	< 5
Carbon disulfide	NS	< 5	< 5	< 5	NA	< 5	< 5	< 5	< 5	< 50	**0.47 J//**	< 50	< 50	< 50	< 5	< 5	< 5	< 5
Carbon tetrachloride	5	< 5	< 5	< 5	< 50	< 5	< 5	< 5	< 5	< 50	< 5	< 50	< 50	< 50	< 5	< 5	< 5	< 5
Chlorobenzene	100	< 5	< 5	< 5	< 50	< 5	< 5	< 5	< 5	< 50	< 5	< 50	< 50	< 50	< 5	< 5	< 5	< 5
Chloroethane	NS	< 5	< 5	< 5	NA	< 5	< 5	< 5	< 5	< 50	< 5	< 50	< 50	< 50	< 5	< 5	< 5	< 5
Chloroform	80 [1]	< 5	< 5	< 5	< 50	< 5	< 5	< 5	< 5	< 50	< 5	< 50	< 50	< 50	< 5	< 5	< 5	< 5
Chloromethane (Methyl chloride)	NS	< 5	< 5	< 5	NA	< 5	< 5	< 5	< 5	< 50	< 5	< 50	< 50	< 50	< 5	< 5	< 5	< 5
cis-1,2-Dichloroethene	70	< 5	< 5	< 5	NA	< 5	< 5	**14**	< 5	**620**	**95**	**75**	**80**	< 50	< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene	NS	< 5	< 5	< 5	NA	< 5	< 5	< 5	< 5	< 50	< 5	< 50	< 50	< 50	< 5	< 5	< 5	< 5
Cyclohexane	NS	< 5	< 5	< 5	NA	< 5	< 5	< 5	< 5	< 50	< 5	< 50	< 50	< 50	< 5	< 5	< 5	< 5
Dibromochloromethane	80 [1]	< 5	< 5	< 5	NA	< 5	< 5	< 5	< 5	< 50	< 5	< 50	< 50	< 50	< 5	< 5	< 5	< 5
Dichlorodifluoromethane	NS	< 5	< 5	< 5	NA	< 5	< 5	< 5	< 5	< 50	< 5	< 50	< 50	< 50	< 5	< 5	< 5	< 5
Ethylbenzene	700	< 5	< 5	< 5	NA	< 5	< 5	< 5	< 5	< 50	< 5	< 50	< 50	< 50	< 5	< 5	< 5	< 5
Isopropylbenzene	NS	< 5	< 5	< 5	NA	< 5	< 5	< 5	< 5	< 50	**2.1 J//**	< 50	< 50	< 50	< 5	< 5	< 5	< 5
Methyl acetate	NS	< 5	< 5	< 5	NA	< 5	< 5	< 5	< 5	< 50	< 5	< 50	< 50	< 50	< 5	< 5	< 5	< 5
Methyl tertiary butyl ether (MTBE)	NS	< 5	< 5	< 5	NA	< 5	< 5	< 5	< 5	< 50	< 5	< 50	< 50	< 50	< 5	< 5	< 5	< 5
Methylcyclohexane	NS	< 5	< 5	< 5	NA	< 5	< 5	< 5	< 5	< 50	< 5	< 50	< 50	< 50	< 5	< 5	< 5	< 5
Methylene chloride	5	< 5	< 5	< 5	NA	< 5	< 5	< 5	< 5	< 50	< 5	< 50	< 50	< 50	< 5	< 5	< 5	< 5
Styrene	100	< 5	< 5	**0.45 J//**	NA	< 5	< 5	< 5	< 5	**1.3 J//**	**0.14 J//**	< 50	**2.2 J//**	< 50	< 5	**0.66 J//**	**0.29 J//**	< 5
Tetrachloroethene	5	< 5	< 5	< 5	< 50	< 5	< 5	< 5	< 5	< 50	< 5	< 50	**5.7 J//**	< 50	< 5	< 5	< 5	< 5
Toluene	1000	< 5	< 5	< 5	NA	< 5	< 5	< 5	< 5	< 50	< 5	< 50	< 50	< 50	< 5	< 5	< 5	< 5
trans-1,2-Dichloroethene	100	< 5	< 5	< 5	NA	< 5	< 5	< 5	< 5	**18 J//**	**0.87 J//**	< 50	< 50	< 50	< 5	< 5	< 5	< 5
trans-1,3-Dichloropropene	NS	< 5	< 5	< 5	NA	< 5	< 5	< 5	< 5	< 50	< 5	< 50	< 50	< 50	< 5	< 5	< 5	< 5
Trichloroethene	5	< 5	< 5	< 5	< 50	< 5	< 5	< 5	**68**	**40 J//**	**19**	**1100**	**890**	**350**	< 5	**5.3**	**44**	< 5
Trichlorofluoromethane	NS	< 5	< 5	< 5	NA	< 5	< 5	< 5	< 5	< 50	< 5	< 50	< 50	< 50	< 5	< 5	< 5	< 5
Vinyl chloride	2	< 2	< 2	< 2	< 10	< 2	< 2	< 2	< 2	**23**	**3.8**	< 20	< 20	< 20	< 2	< 2	< 2	< 2
Xylenes (total)	10000	< 5	< 5	< 5	NA	< 5	< 5	< 5	< 5	< 50	< 5	< 50	< 50	< 50	< 5	< 5	< 5	< 5

Table 4
Summary of Volatile Organic Compounds in Groundwater
Shakespeare
Newberry, South Carolina

Sample ID		TMW-13	TMW-14	TMW-15	TMW-16	TMW-17	TMW-18	TMW-19	TMW-20	TMW-21	TMW-22	TMW-23	TMW-24	TMW-25	TMW-26	TMW-27	TMW-28	TMW-29
Laboratory ID	USEPA	PD09069-002	PD09069-003	PD09069-004	PD11041-001	PD14037-001	PD14037-002	PE21017-020	PE21017-019	PE22065-008	PE22065-006	PE28058-001	PE28058-002	PE29054-001	PE30022-001	PE30022-002	PE30022-003	PF04097-011
Date Collected	MCL	04/09/14	04/09/14	04/09/14	04/11/14	04/14/14	04/14/14	05/20/14	05/20/14	05/22/14	05/22/14	05/28/14	05/28/14	05/29/14	05/30/14	05/30/14	05/30/14	06/04/14
Volatile Organic Compounds by USEPA Method																		
1,1,1-Trichloroethane	200	< 50	< 5	< 5	< 5	< 25	< 5	< 25	< 5	< 100	< 50	< 5	< 50	< 5	< 5	< 5	< 5	< 5
1,1,2,2-Tetrachloroethane	NS	< 50	< 5	< 5	< 5	< 25	< 5	< 25	< 5	< 100	< 50	< 5	< 50	< 5	< 5	< 5	< 5	< 5
1,1,2-Trichloro-1,2,2-Trifluoroethane	NS	< 50	< 5	< 5	< 5	< 25	< 5	< 25	< 5	< 100	< 50	< 5	< 50	< 5	< 5	< 5	< 5	< 5
1,1,2-Trichloroethane	5	< 50	< 5	< 5	< 5	< 25	< 5	< 25	< 5	< 100	< 50	< 5	< 50	< 5	< 5	< 5	< 5	< 5
1,1-Dichloroethane	NS	< 50	< 5	< 5	< 5	< 25	< 5	< 25	**0.41 J//**	< 100	< 50	< 5	< 50	< 5	**0.52 J//**	**1.8 J//**	< 5	< 5
1,1-Dichloroethene	7	< 50	< 5	< 5	< 5	< 25	< 5	< 25	**0.55 J//**	< 100	< 50	< 5	< 50	< 5	**1.1 J//**	**2.5 J//**	< 5	< 5
1,2,4-Trichlorobenzene	70	< 50	< 5	< 5	< 5	< 25	< 5	< 25	< 5	< 100	< 50	< 5	< 50	< 5	< 5	< 5	< 5	< 5
1,2-Dibromo-3-chloropropane (DBCP)	0.2	< 50	< 5	< 5	< 5	< 25	< 5	< 25	< 5	< 100	< 50	< 5	< 50	< 5	< 5	< 5	< 5	< 5
1,2-Dibromoethane (EDB)	0.05	< 50	< 5	< 5	< 5	< 25	< 5	< 25	< 5	< 100	< 50	< 5	< 50	< 5	< 5	< 5	< 5	< 5
1,2-Dichlorobenzene	600	< 50	< 5	< 5	< 5	< 25	< 5	< 25	< 5	< 100	< 50	< 5	< 50	< 5	< 5	< 5	< 5	< 5
1,2-Dichloroethane	5	< 50	< 5	< 5	< 5	< 25	< 5	< 25	< 5	< 100	< 50	< 5	< 50	< 5	**1 J//**	< 5	**0.71 J//**	< 5
1,2-Dichloropropane	5	< 50	< 5	< 5	< 5	< 25	< 5	< 25	< 5	< 100	< 50	< 5	< 50	< 5	< 5	< 5	< 5	< 5
1,3-Dichlorobenzene	NS	< 50	< 5	< 5	< 5	< 25	< 5	< 25	< 5	< 100	< 50	< 5	< 50	< 5	< 5	< 5	< 5	< 5
1,4-Dichlorobenzene	75	< 50	< 5	< 5	< 5	< 25	< 5	< 25	< 5	< 100	< 50	< 5	< 50	< 5	< 5	< 5	< 5	< 5
2-Butanone (MEK)	NS	< 100	< 10	< 10	< 10	< 50	< 10	< 50	< 10	< 200	< 100	< 10	< 100	< 10	< 10	< 10	< 10	< 10
2-Hexanone	NS	< 100	< 10	< 10	< 10	< 50	< 10	< 50	< 10	< 200	< 100	< 10	< 100	< 10	< 10	< 10	< 10	< 10
4-Methyl-2-pentanone	NS	< 100	< 10	< 10	< 10	< 50	< 10	< 50	< 10	< 200	< 100	< 10	< 100	< 10	< 10	< 10	< 10	< 10
Acetone	NS	< 200 /J/E	< 20 /J/E	< 20 /J/E	< 20	< 100	< 20	< 100	< 20	< 400	< 200	**34**	< 200	**6.7 J//**	< 20	< 20	< 20	**55**
Benzene	5	< 50	< 5	< 5	< 5	< 25	< 5	< 25	**0.29 J//**	< 100	< 50	< 5	< 50	< 5	**0.28 J//**	**0.52 J//**	< 5	< 5
Bromodichloromethane	80 [1]	< 50	< 5	< 5	< 5	< 25	< 5	< 25	< 5	< 100	< 50	< 5	< 50	< 5	< 5	< 5	< 5	< 5
Bromoform	80 [1]	< 50	< 5	< 5	< 5	< 25	< 5	< 25	< 5	< 100	< 50	< 5	< 50	< 5	< 5	< 5	< 5	< 5
Bromomethane (Methyl bromide)	NS	< 50	< 5	< 5	< 5	< 25	< 5	< 25	< 5	< 100	< 50	< 5	< 50	< 5	< 5	< 5	< 5	< 5
Carbon disulfide	NS	< 50	< 5	< 5	< 5	< 25	< 5	< 25	< 5	< 100	< 50	< 5	< 50	< 5	< 5	< 5	< 5	< 5
Carbon tetrachloride	5	< 50	< 5	< 5	< 5	< 25	< 5	< 25	< 5	< 100	< 50	< 5	< 50	< 5	< 5	< 5	< 5	< 5
Chlorobenzene	100	< 50	< 5	< 5	< 5	< 25	< 5	< 25	< 5	< 100	< 50	< 5	< 50	< 5	< 5	< 5	< 5	< 5
Chloroethane	NS	< 50	< 5	< 5	< 5	< 25	< 5	< 25	< 5	< 100	< 50	< 5	< 50	< 5	< 5	< 5	< 5	< 5
Chloroform	80 [1]	< 50	< 5	< 5	< 5	< 25	< 5	< 25	< 5	< 100	< 50	< 5	< 50	< 5	< 5	< 5	< 5	< 5
Chloromethane (Methyl chloride)	NS	< 50	< 5	< 5	< 5	< 25	< 5	< 25	< 5	< 100	< 50	< 5	< 50	< 5	< 5	< 5	< 5	< 5
cis-1,2-Dichloroethene	70	**110**	**35**	< 5	**120**	< 25	< 5	**1.7 J//**	**91**	**88 J//**	**57**	**7**	< 50	< 5	**34**	**120**	**0.6 J//**	< 5
cis-1,3-Dichloropropene	NS	< 50	< 5	< 5	< 5	< 25	< 5	< 25	< 5	< 100	< 50	< 5	< 50	< 5	< 5	< 5	< 5	< 5
Cyclohexane	NS	< 50	< 5	< 5	< 5	< 25	< 5	< 25	< 5	< 100	< 50	< 5	< 50	< 5	< 5	< 5	< 5	< 5
Dibromochloromethane	80 [1]	< 50	< 5	< 5	< 5	< 25	< 5	< 25	< 5	< 100	< 50	< 5	< 50	< 5	< 5	< 5	< 5	< 5
Dichlorodifluoromethane	NS	< 50	< 5	< 5	< 5	< 25	< 5	< 25	< 5	< 100	< 50	< 5	< 50	< 5	< 5	< 5	< 5	< 5
Ethylbenzene	700	< 50	< 5	< 5	< 5	< 25	< 5	< 25	< 5	< 100	< 50	< 5	< 50	< 5	< 5	< 5	< 5	< 5
Isopropylbenzene	NS	< 50	< 5	< 5	< 5	< 25	< 5	< 25	< 5	< 100	< 50	< 5	< 50	< 5	< 5	**1.2 J//**	< 5	< 5
Methyl acetate	NS	< 50	< 5	< 5	< 5	< 25	< 5	< 25	< 5	< 100	< 50	< 5	< 50	< 5	< 5	< 5	< 5	< 5
Methyl tertiary butyl ether (MTBE)	NS	< 50	< 5	< 5	< 5	< 25	< 5	< 25	< 5	< 100	< 50	< 5	< 50	< 5	< 5	< 5	< 5	< 5
Methylcyclohexane	NS	< 50	< 5	< 5	< 5	< 25	< 5	< 25	< 5	< 100	< 50	< 5	< 50	< 5	< 5	< 5	< 5	< 5
Methylene chloride	5	< 50	< 5	< 5	< 5	< 25	< 5	< 25	< 5	< 100	< 50	< 5	< 50	< 5	< 5	< 5	< 5	< 5
Styrene	100	< 50	< 5	**0.22 J//**	< 5	< 25	< 5	< 25	< 5	**7.1 J//**	**46 J//**	**81**	**9.8 J//**	< 5	**0.26 J//**	**0.46 J//**	**0.38 J//**	**81**
Tetrachloroethene	5	**8 J//**	< 5	< 5	< 5	< 25	< 5	< 25	< 5	< 100	**4.5 J//**	**1.1 J//**	< 50	< 5	< 5	< 5	**0.92 J//**	< 5
Toluene	1000	< 50	< 5	< 5	< 5	< 25	< 5	< 25	< 5	< 100	< 50	< 5	< 50	< 5	< 5	< 5	< 5	< 5
trans-1,2-Dichloroethene	100	< 50	**2.4 J//**	< 5	< 5	< 25	< 5	< 25	**6.3**	**9.8 J//**	< 50	< 5	< 50	< 5	< 5	**1.3 J//**	< 5	< 5
trans-1,3-Dichloropropene	NS	< 50	< 5	< 5	< 5	< 25	< 5	< 25	< 5	< 100	< 50	< 5	< 50	< 5	< 5	< 5	< 5	< 5
Trichloroethene	5	**1400**	**32**	**0.46 J//**	**15**	**480**	< 5	**210**	**22**	**1100**	**790**	**140**	**620**	**1.8 J//**	**120**	**34**	**150**	**25**
Trichlorofluoromethane	NS	< 50	< 5	< 5	< 5	< 25	< 5	< 25	< 5	< 100	< 50	< 5	< 50	< 5	< 5	< 5	< 5	< 5
Vinyl chloride	2	< 20	< 2	< 2	**4.2**	< 10	< 2	< 10	**0.17 J//**	< 40	< 20	< 2	< 20	< 2	**1.7 J//**	**9.5**	< 2	< 2
Xylenes (total)	10000	< 50	< 5	< 5	< 5	< 25	< 5	< 25	< 5	< 100	< 50	< 5	< 50	< 5	< 5	< 5	< 5	< 5

Table 4
Summary of Volatile Organic Compounds in Groundwater
Shakespeare
Newberry, South Carolina

Sample ID		TMW-30	TMW-31	TMW-32	TMW-33	TMW-34	TMW-35	TMW-36	TMW-37	TMW-38	TMW-39	TMW-40	TMW-41	TMW-42	TMW-43	TMW-52-30	TMW-83-14	TMW-86-24
Laboratory ID	USEPA	PF05058-011	PF04097-012	PF06044-001	PF06044-002	PG18051-002	PG18051-003	PG21048-001	PG22051-001	PG22051-002	PG22051-003	PG23068-001	PG22051-004	PG23068-002	PG24056-001	PH14053-004	PH22039-002	PH26027-002
Date Collected	MCL	06/05/14	06/04/14	06/06/14	06/06/14	07/18/14	07/18/14	07/21/14	07/22/14	07/22/14	07/22/14	07/23/14	07/22/14	07/23/14	07/24/14	08/13/14	08/22/14	08/25/14
Volatile Organic Compounds by USEPA Method																		
1,1,1-Trichloroethane	200	< 50	< 50	< 25	< 50	< 5	< 5	< 5	< 5	< 5	< 5	< 5 //y	< 5	< 100 //y	< 5	< 5	< 25	< 5
1,1,2,2-Tetrachloroethane	NS	< 50	< 50	< 25	< 50	< 5	< 5	< 5	< 5	< 5	< 5	< 5 //y	< 5	< 100 //y	< 5	< 5	< 25	< 5
1,1,2-Trichloro-1,2,2-Trifluoroethane	NS	< 50	< 50	< 25	< 50	< 5	< 5	< 5	< 5	< 5	< 5	< 5 //y	< 5	< 100 //y	< 5	< 5	< 25	< 5
1,1,2-Trichloroethane	5	< 50	< 50	< 25	< 50	< 5	< 5	< 5	< 5	< 5	< 5	< 5 //y	< 5	< 100 //y	< 5	< 5	< 25	< 5
1,1-Dichloroethane	NS	< 50	< 50	< 25	< 50	< 5	< 5	< 5	< 5	< 5	< 5	< 5 //y	< 5	< 100 //y	< 5	< 5	< 25	< 5
1,1-Dichloroethene	7	< 50	< 50	< 25	< 50	< 5	< 5	< 5	< 5	< 5	< 5	< 5 //y	< 5	< 100 //y	< 5	< 5	< 25	< 5
1,2,4-Trichlorobenzene	70	< 50	< 50	< 25	< 50	< 5	< 5	< 5	< 5	< 5	< 5	< 5 //y	< 5	< 100 //y	< 5	< 5	< 25	< 5
1,2-Dibromo-3-chloropropane (DBCP)	0.2	< 50	< 50	< 25	< 50	< 5	< 5	< 5	< 5	< 5	< 5	< 5 //y	< 5	< 100 //y	< 5	< 5	< 25	< 5
1,2-Dibromoethane (EDB)	0.05	< 50	< 50	< 25	< 50	< 5	< 5	< 5	< 5	< 5	< 5	< 5 //y	< 5	< 100 //y	< 5	< 5	< 25	< 5
1,2-Dichlorobenzene	600	< 50	< 50	< 25	< 50	< 5	< 5	< 5	< 5	< 5	< 5	< 5 //y	< 5	< 100 //y	< 5	< 5	< 25	< 5
1,2-Dichloroethane	5	< 50	< 50	< 25	< 50	< 5	< 5	< 5	< 5	< 5	< 5	< 5 //y	< 5	< 100 //y	< 5	< 5	< 25	< 5
1,2-Dichloropropane	5	< 50	< 50	< 25	< 50	< 5	< 5	< 5	< 5	< 5	< 5	< 5 //y	< 5	< 100 //y	< 5	< 5	< 25	< 5
1,3-Dichlorobenzene	NS	< 50	< 50	< 25	< 50	< 5	< 5	< 5	< 5	< 5	< 5	< 5 //y	< 5	< 100 //y	< 5	< 5	< 25	< 5
1,4-Dichlorobenzene	75	< 50	< 50	< 25	< 50	< 5	< 5	< 5	< 5	< 5	< 5	< 5 //y	< 5	< 100 //y	< 5	< 5	< 25	< 5
2-Butanone (MEK)	NS	< 100	< 100	< 50	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10 //y	< 10	< 200 //y	< 10	< 10	< 50	< 10
2-Hexanone	NS	< 100	< 100	< 50	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10 //y	< 10	< 200 //y	< 10	< 10	< 50	< 10
4-Methyl-2-pentanone	NS	< 100	< 100	< 50	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10 //y	< 10	< 200 //y	< 10	< 10	< 50	< 10
Acetone	NS	< 200	< 200	< 100	< 200	< 20	< 20	< 20	< 20	< 20	< 20	< 20 //y	< 20	< 400 //y	< 20	< 20	< 100 J/E	< 20
Benzene	5	< 50	< 50	< 25	< 50	< 5	< 5	< 5	< 5	< 5	< 5	< 5 //y	< 5	< 100 //y	< 5	< 5	< 25	< 5
Bromodichloromethane	80 [1]	< 50	< 50	< 25	< 50	< 5	< 5	< 5	< 5	< 5	< 5	< 5 //y	< 5	< 100 //y	< 5	< 5	< 25	< 5
Bromoform	80 [1]	< 50	< 50	< 25	< 50	< 5	< 5	< 5	< 5	< 5	< 5	< 5 //y	< 5	< 100 //y	< 5	< 5	< 25	< 5
Bromomethane (Methyl bromide)	NS	< 50	< 50	< 25	< 50	< 5	< 5	< 5	< 5	< 5	< 5	< 5 //y	< 5	< 100 //y	< 5	< 5	< 25	< 5
Carbon disulfide	NS	< 50	< 50	< 25	< 50	< 5	< 5	< 5	< 5	< 5	< 5	< 5 //y	< 5	< 100 //y	< 5	< 5	< 25	< 5
Carbon tetrachloride	5	< 50	< 50	< 25	< 50	< 5	< 5	< 5	< 5	< 5	< 5	< 5 //y	< 5	< 100 //y	< 5	< 5	< 25	< 5
Chlorobenzene	100	< 50	< 50	< 25	< 50	< 5	< 5	< 5	< 5	< 5	< 5	< 5 //y	< 5	< 100 //y	< 5	< 5	< 25	< 5
Chloroethane	NS	< 50	< 50	< 25	< 50	< 5	< 5	< 5	< 5	< 5	< 5	< 5 //y	< 5	< 100 //y	< 5	< 5	< 25	< 5
Chloroform	80 [1]	< 50	< 50	< 25	< 50	< 5	< 5	< 5	< 5	< 5	< 5	< 5 //y	< 5	< 100 //y	< 5	< 5	< 25	< 5
Chloromethane (Methyl chloride)	NS	< 50	< 50	< 25	< 50	< 5	< 5	< 5	< 5	< 5	< 5	< 5 //y	< 5	< 100 //y	< 5	< 5	< 25	< 5
cis-1,2-Dichloroethene	70	**36 J//**	**2.4 J//**	**3.2 J//**	< 50	< 5	< 5	< 5	< 5	**0.27 J//**	< 5	< 5 //y	< 5	< 100 //y	**1.9 J**	< 5	< 25	< 5
cis-1,3-Dichloropropene	NS	< 50	< 50	< 25	< 50	< 5	< 5	< 5	< 5	< 5	< 5	< 5 //y	< 5	< 100 //y	< 5	< 5	< 25	< 5
Cyclohexane	NS	< 50	< 50	< 25	< 50	< 5	< 5	< 5	< 5	< 5	< 5	< 5 //y	< 5	< 100 //y	< 5	< 5	< 25	< 5
Dibromochloromethane	80 [1]	< 50	< 50	< 25	< 50	< 5	< 5	< 5	< 5	< 5	< 5	< 5 //y	< 5	< 100 //y	< 5	< 5	< 25	< 5
Dichlorodifluoromethane	NS	< 50	< 50	< 25	< 50	< 5	< 5	< 5	< 5	< 5	< 5	< 5 //y	< 5	< 100 //y	< 5	< 5	< 25	< 5
Ethylbenzene	700	< 50	< 50	< 25	< 50	< 5	< 5	< 5	< 5	< 5	< 5	< 5 //y	< 5	< 100 //y	< 5	< 5	< 25	< 5
Isopropylbenzene	NS	< 50	< 50	< 25	< 50	< 5	< 5	< 5	< 5	< 5	< 5	< 5 //y	< 5	< 100 //y	< 5	< 5	< 25	< 5
Methyl acetate	NS	< 50	< 50	< 25	< 50	< 5	< 5	< 5	< 5	< 5	< 5	< 5 //y	< 5	< 100 //y	< 5	< 5	< 25	< 5
Methyl tertiary butyl ether (MTBE)	NS	< 50	< 50	< 25	< 50	< 5	< 5	< 5	< 5	< 5	< 5	< 5 //y	< 5	< 100 //y	< 5	< 5	< 25	< 5
Methylcyclohexane	NS	< 50	< 50	< 25	< 50	< 5	< 5	< 5	< 5	< 5	< 5	< 5 //y	< 5	< 100 //y	< 5	< 5	< 25	< 5
Methylene chloride	5	< 50	< 50	< 25	< 50	< 5	< 5	< 5	< 5	< 5	< 5	< 5 //y	< 5	< 100 //y	< 5	< 5	< 25	< 5
Styrene	100	**31 J//**	**32 J//**	**4.3 J//**	**5.5 J//**	< 5	< 5	< 5	< 5	**0.79 J//**	< 5	< 5 //y	< 5	< 100 //y	< 5	< 5	< 25	< 5
Tetrachloroethene	5	< 50	< 50	< 25	< 50	< 5	< 5	< 5	< 5	< 5	< 5	< 5 //y	< 5	< 100 //y	< 5	< 5	< 25	< 5
Toluene	1000	< 50	< 50	< 25	< 50	< 5	< 5	< 5	< 5	< 5	< 5	< 5 //y	< 5	< 100 //y	< 5	< 5	< 25	< 5
trans-1,2-Dichloroethene	100	< 50	< 50	< 25	< 50	< 5	< 5	< 5	< 5	< 5	< 5	< 5 //y	< 5	< 100 //y	< 5	< 5	< 25	< 5
trans-1,3-Dichloropropene	NS	< 50	< 50	< 25	< 50	< 5	< 5	< 5	**1.5 J//**	**120**	< 5	< 5 //y	< 5	**1600 //y**	**130**	**12**	< 25	**40**
Trichloroethene	5	**280**	**470**	**180**	**800**	**16**	**0.34 J//**	< 5	< 5	< 5	< 5	< 5 //y	< 5	< 100 //y	< 5	< 5	< 25	< 5
Trichlorofluoromethane	NS	< 50	< 50	< 25	< 50	< 5	< 5	< 5	< 5	< 5	< 5	< 5 //y	< 5	< 100 //y	< 5	< 5	< 25	< 5
Vinyl chloride	2	< 20	< 20	< 10	< 20	< 2	< 2	< 2	< 2	< 2	< 2	< 2 //y	< 2	< 40 //y	< 2	< 2	< 10	< 2
Xylenes (total)	10000	< 50	< 50	< 25	< 50	< 5	< 5	< 5	< 5	< 5	< 5	< 5 //y	< 5	< 100 //y	< 5	< 5	< 25	< 5

Table 4
Summary of Volatile Organic Compounds in Groundwater
Shakespeare
Newberry, South Carolina

Sample ID		TMW-87-18	TMW-89-19	TMW-93-25	TMW-95-11	TMW-97-10	TMW-98-12	TMW-99-18	TMW-100-30	TMW-103-16	TMW-104-10[f]	TMW-105-12
Laboratory ID	USEPA	PH27059-004	PH26027-003	PH26027-005	PH26027-007	PH26027-006	PH26027-004	PH27059-003	PH27059-005	PH28036-007	PH29019-004	PH29019-005
Date Collected	MCL	08/27/14	08/25/14	08/25/14	08/25/14	08/25/14	08/25/14	08/27/14	08/27/14	08/28/14	08/29/14	08/29/14
Volatile Organic Compounds by USEPA Method												
1,1,1-Trichloroethane	200	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 25 //y	< 25 //y
1,1,2,2-Tetrachloroethane	NS	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 25 //y	< 25 //y
1,1,2-Trichloro-1,2,2-Trifluoroethane	NS	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 25 //y	< 25 //y
1,1,2-Trichloroethane	5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 25 //y	< 25 //y
1,1-Dichloroethane	NS	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 25 //y	< 25 //y
1,1-Dichloroethene	7	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 25 //y	< 25 //y
1,2,4-Trichlorobenzene	70	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 25 //y	< 25 //y
1,2-Dibromo-3-chloropropane (DBCP)	0.2	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 25 //y	< 25 //y
1,2-Dibromoethane (EDB)	0.05	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 25 //y	< 25 //y
1,2-Dichlorobenzene	600	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 25 //y	< 25 //y
1,2-Dichloroethane	5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 25 //y	< 25 //y
1,2-Dichloropropane	5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 25 //y	< 25 //y
1,3-Dichlorobenzene	NS	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 25 //y	< 25 //y
1,4-Dichlorobenzene	75	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 25 //y	< 25 //y
2-Butanone (MEK)	NS	**3 J//**	< 10	< 10	< 10	< 10	< 10	< 10	< 10	**2.3 J//**	< 50 //y	< 50 //y
2-Hexanone	NS	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50 //y	< 50 //y
4-Methyl-2-pentanone	NS	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50 //y	< 50 //y
Acetone	NS	**18 J/J/E**	< 20	< 20	< 20	< 20	< 20	< 20 /J/E	< 20 /J/E	**12 J//**	< 100 //y	< 100 //y
Benzene	5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	**0.27 J//**	< 25 //y	< 25 //y
Bromodichloromethane	80 [1]	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 25 //y	< 25 //y
Bromoform	80 [1]	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 25 //y	< 25 //y
Bromomethane (Methyl bromide)	NS	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 25 //y	< 25 //y
Carbon disulfide	NS	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 25 //y	< 25 //y
Carbon tetrachloride	5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 25 //y	< 25 //y
Chlorobenzene	100	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 25 //y	< 25 //y
Chloroethane	NS	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 25 //y	< 25 //y
Chloroform	80 [1]	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 25 //y	< 25 //y
Chloromethane (Methyl chloride)	NS	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 25 //y	< 25 //y
cis-1,2-Dichloroethene	70	< 5	**0.98 J//**	< 5	**0.82 J//**	< 5	< 5	< 5	< 5	< 5	< 25 //y	< 25 //y
cis-1,3-Dichloropropene	NS	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 25 //y	< 25 //y
Cyclohexane	NS	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 25 //y	< 25 //y
Dibromochloromethane	80 [1]	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 25 //y	< 25 //y
Dichlorodifluoromethane	NS	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 25 //y	< 25 //y
Ethylbenzene	700	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 25 //y	< 25 //y
Isopropylbenzene	NS	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 25 //y	< 25 //y
Methyl acetate	NS	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 25 //y	< 25 //y
Methyl tertiary butyl ether (MTBE)	NS	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 25 //y	< 25 //y
Methylcyclohexane	NS	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 25 //y	< 25 //y
Methylene chloride	5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 25 //y	< 25 //y
Styrene	100	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	**0.25 J//**	< 25 //y	< 25 //y
Tetrachloroethene	5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 25 //y	< 25 //y
Toluene	1000	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 25 //y	< 25 //y
trans-1,2-Dichloroethene	100	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 25 //y	< 25 //y
trans-1,3-Dichloropropene	NS	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 25 //y	< 25 //y
Trichloroethene	5	**5.1**	**56**	**25**	**18**	**8.6**	**74**	< 5	< 5	< 5	< 25 //y	< 25 //y
Trichlorofluoromethane	NS	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 25 //y	< 25 //y
Vinyl chloride	2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 10 //y	< 10 //y
Xylenes (total)	10000	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 25 //y	< 25 //y

Table 5
Summary of Volatile Organic Compounds in Intermediate Groundwater
Shakespeare
Newberry, South Carolina

Sample ID		TMW-35 (35)	TMW-36 (43.5)	TMW-47-41	TMW-49-45	TMW-51-35	TMW-79-35	TMW-80-35	TMW-101-37
Laboratory ID	USEPA	PG23068-003	PG23068-004	PH14053-001	PH14053-002	PH14053-003	PH26027-001	PH22039-001	PH28036-006
Date Collected	MCL	07/23/14	07/23/14	08/13/14	08/13/14	08/13/14	08/25/14	08/22/14	08/28/14
Volatile Organic Compounds by USEPA Method 8260B (µg/L)									
1,1,1-Trichloroethane	200	< 5 //y	< 5 //y	< 5	< 5	< 5	< 25	< 5	< 5
1,1,2,2-Tetrachloroethane	NS	< 5 //y	< 5 //y	< 5	< 5	< 5	< 25	< 5	< 5
1,1,2-Trichloro-1,2,2-Trifluoroethane	NS	< 5 //y	< 5 //y	< 5	< 5	< 5	< 25	< 5	< 5
1,1,2-Trichloroethane	5	< 5 //y	< 5 //y	< 5	< 5	< 5	< 25	< 5	< 5
1,1-Dichloroethane	NS	< 5 //y	< 5 //y	< 5	< 5	< 5	**1.7 J//**	< 5	< 5
1,1-Dichloroethene	7	< 5 //y	< 5 //y	< 5	< 5	< 5	**4.6 J//**	< 5	< 5
1,2,4-Trichlorobenzene	70	< 5 //y	< 5 //y	< 5	< 5	< 5	< 25	< 5	< 5
1,2-Dibromo-3-chloropropane (DBCP)	0.2	< 5 //y	< 5 //y	< 5	< 5	< 5	< 25	< 5	< 5
1,2-Dibromoethane (EDB)	0.05	< 5 //y	< 5 //y	< 5	< 5	< 5	< 25	< 5	< 5
1,2-Dichlorobenzene	600	< 5 //y	< 5 //y	< 5	< 5	< 5	< 25	< 5	< 5
1,2-Dichloroethane	5	< 5 //y	< 5 //y	< 5	< 5	< 5	< 25	< 5	< 5
1,2-Dichloropropane	5	< 5 //y	< 5 //y	< 5	< 5	< 5	< 25	< 5	< 5
1,3-Dichlorobenzene	NS	< 5 //y	< 5 //y	< 5	< 5	< 5	< 25	< 5	< 5
1,4-Dichlorobenzene	75	< 5 //y	< 5 //y	< 5	< 5	< 5	< 25	< 5	< 5
2-Butanone (MEK)	NS	< 10 //y	< 10 //y	**1.8 J//**	< 10	< 10	< 50	< 10	< 10
2-Hexanone	NS	< 10 //y	< 10 //y	< 10	< 10	< 10	< 50	< 10	< 10
4-Methyl-2-pentanone	NS	< 10 //y	< 10 //y	< 10	< 10	< 10	< 50	< 10	< 10
Acetone	NS	< 20 //y	< 20 //y	**7.6 J//**	< 20	< 20	< 100	< 20	< 20
Benzene	5	< 5 //y	< 5 //y	< 5	**0.25 J//**	< 5	< 25	< 5	**0.41 J//**
Bromodichloromethane	80 [1]	< 5 //y	< 5 //y	< 5	< 5	< 5	< 25	< 5	< 5
Bromoform	80 [1]	< 5 //y	< 5 //y	< 5	< 5	< 5	< 25	< 5	< 5
Bromomethane (Methyl bromide)	NS	< 5 //y	< 5 //y	< 5	< 5	< 5	< 25	< 5	< 5
Carbon disulfide	NS	< 5 //y	< 5 //y	< 5	< 5	< 5	< 25	< 5	< 5
Carbon tetrachloride	5	< 5 //y	< 5 //y	< 5	< 5	< 5	< 25	< 5	< 5
Chlorobenzene	100	< 5 //y	< 5 //y	< 5	< 5	< 5	< 25	< 5	< 5
Chloroethane	NS	< 5 //y	< 5 //y	< 5	< 5	< 5	< 25	< 5	< 5
Chloroform	80 [1]	< 5 //y	< 5 //y	< 5	< 5	< 5	< 25	< 5	< 5
Chloromethane (Methyl chloride)	NS	< 5 //y	< 5 //y	< 5	< 5	< 5	< 25	< 5	< 5
cis-1,2-Dichloroethene	70	< 5 //y	< 5 //y	**12**	**39**	**0.37 J//**	**98**	**1.2 J//**	< 5
cis-1,3-Dichloropropene	NS	< 5 //y	< 5 //y	< 5	< 5	< 5	< 25	< 5	< 5
Cyclohexane	NS	< 5 //y	< 5 //y	< 5	< 5	< 5	< 25	< 5	< 5
Dibromochloromethane	80 [1]	< 5 //y	< 5 //y	< 5	< 5	< 5	< 25	< 5	< 5
Dichlorodifluoromethane	NS	< 5 //y	< 5 //y	< 5	< 5	< 5	< 25	< 5	< 5
Ethylbenzene	700	< 5 //y	< 5 //y	< 5	< 5	< 5	< 25	< 5	< 5
Isopropylbenzene	NS	< 5 //y	< 5 //y	< 5	< 5	< 5	< 25	< 5	< 5
Methyl acetate	NS	< 5 //y	< 5 //y	< 5	< 5	< 5	< 25	< 5	< 5
Methyl tertiary butyl ether (MTBE)	NS	< 5 //y	< 5 //y	< 5	< 5	< 5	< 25	< 5	< 5
Methylcyclohexane	NS	< 5 //y	< 5 //y	< 5	< 5	< 5	< 25	< 5	< 5
Methylene chloride	5	< 5 //y	< 5 //y	< 5	< 5	< 5	< 25	< 5	< 5
Styrene	100	< 5 //y	< 5 //y	< 5	< 5	**0.43 J//**	< 25	< 5	< 5
Tetrachloroethene	5	< 5 //y	< 5 //y	< 5	< 5	< 5	< 25	< 5	< 5
Toluene	1000	< 5 //y	< 5 //y	< 5	< 5	< 5	< 25	< 5	**2.6 J//**
trans-1,2-Dichloroethene	100	< 5 //y	< 5 //y	< 5	< 5	< 5	< 25	< 5	< 5
trans-1,3-Dichloropropene	NS	< 5 //y	< 5 //y	< 5	< 5	< 5	< 25	< 5	< 5
Trichloroethene	5	**0.39 J//y**	< 5 //y	**160**	**23**	< 5	**260**	**0.41 J//**	**0.71 J//**
Trichlorofluoromethane	NS	< 5 //y	< 5 //y	< 5	< 5	< 5	< 25	< 5	< 5
Vinyl chloride	2	< 2 //y	< 2 //y	< 2	< 2	< 2	< 10	< 2	< 2
Xylenes (total)	10000	< 5 //y	< 5 //y	< 5	< 5	< 5	< 25	< 5	< 5

Table 6
Summary of Volatile Organic Compounds in Deep Groundwater
Shakespeare
Newberry, South Carolina

Sample ID Laboratory ID Date Collected	USEPA MCL	MW-2D PH28036-004 08/28/14	MW-3D PH28036-001 08/28/14	MW-6D PH28036-003 08/28/14	MW-7D PH28036-002 08/28/14	DUP-1 PH28036-005 08/28/14	RDW-1 PH27059-001 08/27/14	RDW-2 PH27059-002 08/27/14
Volatile Organic Compounds by USEPA Method 8260B (µg/L)								
1,1,1-Trichloroethane	200	< 5	< 5	< 25	< 5	< 5	< 5	< 5
1,1,2,2-Tetrachloroethane	NS	< 5	< 5	< 25	< 5	< 5	< 5	< 5
1,1,2-Trichloro-1,2,2-Trifluoroethane	NS	< 5	< 5	< 25	< 5	< 5	< 5	< 5
1,1,2-Trichloroethane	5	< 5	< 5	< 25	< 5	< 5	< 5	< 5
1,1-Dichloroethane	NS	< 5	< 5	< 25	< 5	< 5	**0.43 J//**	< 5
1,1-Dichloroethene	7	< 5	< 5	< 25	< 5	< 5	< 5	< 5
1,2,4-Trichlorobenzene	70	< 5	< 5	< 25	< 5	< 5	< 5	< 5
1,2-Dibromo-3-chloropropane (DBCP)	0.2	< 5	< 5	< 25	< 5	< 5	< 5	< 5
1,2-Dibromoethane (EDB)	0.05	< 5	< 5	< 25	< 5	< 5	< 5	< 5
1,2-Dichlorobenzene	600	< 5	< 5	< 25	< 5	< 5	< 5	< 5
1,2-Dichloroethane	5	< 5	< 5	< 25	< 5	< 5	< 5	< 5
1,2-Dichloropropane	5	< 5	< 5	< 25	< 5	< 5	< 5	< 5
1,3-Dichlorobenzene	NS	< 5	< 5	< 25	< 5	< 5	< 5	< 5
1,4-Dichlorobenzene	75	< 5	< 5	< 25	< 5	< 5	< 5	< 5
2-Butanone (MEK)	NS	< 10	< 10	< 50	< 10	< 10	< 10	< 10
2-Hexanone	NS	< 10	< 10	< 50	< 10	< 10	< 10	< 10
4-Methyl-2-pentanone	NS	< 10	< 10	< 50	< 10	< 10	< 10	< 10
Acetone	NS	< 20	< 20	< 100	< 20	< 20	< 20 /J/E	< 20 /J/E
Benzene	5	**0.43 J//**	< 5	< 25	< 5	< 5	< 5	< 5
Bromodichloromethane	80 [1]	< 5	< 5	< 25	< 5	< 5	< 5	< 5
Bromoform	80 [1]	< 5	< 5	< 25	< 5	< 5	< 5	< 5
Bromomethane (Methyl bromide)	NS	< 5	< 5	< 25	< 5	< 5	< 5	< 5
Carbon disulfide	NS	< 5	< 5	< 25	< 5	< 5	< 5	< 5
Carbon tetrachloride	5	< 5	< 5	< 25	< 5	< 5	< 5	< 5
Chlorobenzene	100	< 5	< 5	< 25	< 5	< 5	< 5	< 5
Chloroethane	NS	< 5	< 5	< 25	< 5	< 5	< 5	< 5
Chloroform	80 [1]	< 5	< 5	< 25	< 5	< 5	< 5	**2.9 J//**
Chloromethane (Methyl chloride)	NS	< 5	< 5	< 25	< 5	< 5	< 5	< 5
cis-1,2-Dichloroethene	70	< 5	**18**	< 25	**0.64 J//**	**0.6 J//**	**3.5 J//**	< 5
cis-1,3-Dichloropropene	NS	< 5	< 5	< 25	< 5	< 5	< 5	< 5
Cyclohexane	NS	< 5	< 5	< 25	< 5	< 5	< 5	< 5
Dibromochloromethane	80 [1]	< 5	< 5	< 25	< 5	< 5	< 5	< 5
Dichlorodifluoromethane	NS	< 5	< 5	< 25	< 5	< 5	< 5	< 5
Ethylbenzene	700	< 5	< 5	< 25	< 5	< 5	< 5	< 5
Isopropylbenzene	NS	< 5	< 5	< 25	< 5	< 5	< 5	< 5
Methyl acetate	NS	< 5	< 5	< 25	< 5	< 5	< 5	< 5
Methyl tertiary butyl ether (MTBE)	NS	< 5	< 5	< 25	< 5	< 5	< 5	< 5
Methylcyclohexane	NS	< 5	< 5	< 25	< 5	< 5	< 5	< 5
Methylene chloride	5	< 5	< 5	< 25	< 5	< 5	< 5	< 5
Styrene	100	**0.29 J//**	< 5	< 25	< 5	< 5	< 5	< 5
Tetrachloroethene	5	< 5	**1 J//**	< 25	< 5	< 5	**1.3 J//**	< 5
Toluene	1000	< 5	< 5	< 25	< 5	< 5	< 5	< 5
trans-1,2-Dichloroethene	100	< 5	< 5	< 25	< 5	< 5	< 5	< 5
trans-1,3-Dichloropropene	NS	< 5	< 5	< 25	< 5	< 5	< 5	< 5
Trichloroethene	5	< 5	**40**	**210**	**45**	**39**	**190**	< 5
Trichlorofluoromethane	NS	< 5	< 5	< 25	< 5	< 5	< 5	< 5
Vinyl chloride	2	< 2	< 2	< 10	< 2	< 2	< 2	< 2
Xylenes (total)	10000	< 5	< 5	< 25	< 5	< 5	< 5	< 5

Table 7
Results of Additional Chemical and Biological Testing
Site Investigation
Shakespeare Composite Structures, LLC
Newberry, South Carolina

				Location ID	MW-1	MW-6	MW-7	MW-8
				Sample Date	5/22/2014	5/22/2014	5/22/2014	5/22/2014
				Sample ID	MW-1	MW-6	MW-7	MW-8
Method	Analyte	Unit	DQL					
Dissolved Gases								
AM20GAX	Acetylene	ug/l			< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
AM20GAX	Ethane	ug/l			0.25	**0.18**	**0.012J**	**0.041**
AM20GAX	Ethylene	ug/l			**0.092**	**0.50**	**0.0075J**	**0.039**
AM20GAX	Hydrogen	nM			**1.0**	**9.2**	**11**	**6.9**
AM20GAX	Methane	ug/l			**0.49**	**400**	**79**	**150**
AM20GAX	Propane	ug/l			**0.27**	**0.11**	**0.12**	**0.025J**
AM20GAX	Propene	ug/l			<0.05	**0.22**	<0.05	**0.048J**
AM20GAX	iso-Butane	ug/l			**0.048J**	**0.017J**	<0.05	<0.5 U
AM20GAS	n-Butane	ug/l			**0.095**	**0.026J**	<0.05	**0.019J**
Inorganics-Other Parameters								
CNA:SM 2320B	Alkalinity, Total (As CaCO3)	mg/l			<10	**12**	**5.6 J**	**11**
CNA:EPA 353.2	Nitrate	mg/l	10		**0.19**	<0.02	**0.019 J**	**0.1**
CNA:EPA 353.2	Nitrite	mg/l			<0.02	**0.0042**	<0.02	<0.02
CNA:EPA 300.0	Bromide	mg/l			<0.2	**0.035**	**0.19 J**	**0.14**
CNA:EPA 300.0	Chloride	mg/l			**1.3**	**14**	**6.1**	**6.6**
CNA:EPA 300.0	Sulfate as SO4	mg/l			**11**	**2.9**	<1.0	**4.2**
SW6010B	Ferric Iron (calculation)	mg/l			**0.063**	<0.1	**0.3**	ND
TMTL:EPA 6010C	Iron	mg/l			**0.023 J**	**5.6**	**0.045 J**	**0.24**
TMTL:EPA 6010C	Manganese	mg/l			**0.23**	**0.071**	**0.1**	**0.13**
TMTL:EPA 6010C	Dissolved Iron	mg/L			<0.1	**5.3**	<0.1	**0.17**
DMTL:EPA 6010C	Manganese (dissolved)	mg/l			**0.22**	**0.072**	**0.99**	**0.13**
SM3500-FE-D	Ferrous Iron	mg/l			<0.05	**5.7**	**0.15**	**0.38**
SM4500-S2F	Sulfide	mg/l			<1.0	**0.9**	<1.0	<1
CVOCs								
SW-846 8260	Cis-1,2 Dichloroethene	ug/L	70		<5	**620**	**95**	**80**
SW-846 8260	Tricholoroethene	ug/L	5		<5	**40**	**19**	**890**
SW-846 8260	Vinyl Chloride	ug/L	2		<2	**23**	**3.8**	<20
Fatty Acids								
AM23G	Acetic Acid	mg/l			**0.047J**	**0.052J**	**0.0094J**	**0.228 J**
AM23G	Butyric Acid	mg/l			**0.044J**	**0.033J**	**0.031J**	**0.034 J**
AM23G	Formic acid	mg/l			**0.12**	**0.12**	**0.095J**	**0.078J**
AM23G	Hexanoic acid	mg/l			<0.02	<0.50U	<0.50U	<0.50U
AM23G	i-Pentanoic Acid	mg/l			< 0.15 U	< 0.15 U	**0.065J**	<0.15U
AM23G	Lactic Acid and HIBA	mg/l			**<0.1**	**0.028J**	< 0.10 U	<0.10 U
AM23G	Pentanoic acid	mg/l			< 0.070 U	< 0.070 U	< 0.070 U	< 0.070 U
AM23G	Propanoic acid	mg/l			**0.025J**	**0.039J**	**0.02J**	**0.022J**
AM23G	Pyruvic Acid	mg/l			< 0.15 U	< 0.15 U	**0.05J**	< 0.15 U
Organic Compounds								
CNA:SM 5310C	Total Organic Carbon	mg/l			**1.1**	**2.7**	**0.97**	**1.1**
Microbial								
	Dehalococcoides				<3.00E-01	**3.41E+01**	<3.00E-01	**6.00E-01**
	Dehalobacter spp				**3.6E+00**	**3.11+03**	<3.00E+00	**2.56E+02**

Notes

* Final reading beofre sample collecion.

ug/L - micrograms per liter

mg/L - milligrams per liter

nM - nanometer

uS/cm - microsiemens per centimeter

NTu - nephlometric turbidity units

< and U indicate paramter was not detected in sample above intrument detection limit

J parameter concentration is estimated because it is below the detection limit for that compound

Bold indicates parameter was detected in sample

DQL - Data Quality Limit [maximum contaminant limit (MCL) for CVOC]

Concentration exceeds DQL

Table 8
Summary of Volatile Organic Compounds in Groundwater Supply Wells
Shakespeare
Newberry, South Carolina

Sample ID		PW-1	PW-2	PW-3	PW-4	PW-5	PW-6	PW-7	Boazman Tap	BOAZMAN WELL
Laboratory ID	USEPA	PF04091-PW1	PF04091-PW2	PF04091-PW3	PF04091-PW4	PF26034-001	PF26034-002	PG18051-001	PF09029-001	PE29054-002
Date Collected	MCL	6/4/2014	6/4/2014	6/4/2014	6/4/2014	06/26/14	06/26/14	07/18/14	06/09/14	05/29/14
Volatile Organic Compounds by USEPA Method 8260B (µg/L)										
1,1,1-Trichloroethane	200	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 5	< 5	< 5	< 25
1,1,2,2-Tetrachloroethane	NS	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 5	< 5	< 5	< 25
1,1,2-Trichloro-1,2,2-Trifluoroethane	NS	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 5	< 5	< 5	< 25
1,1,2-Trichloroethane	5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 5	< 5	< 5	< 25
1,1-Dichloroethane	NS	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 5	< 5	< 5	< 25
1,1-Dichloroethene	7	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 5	< 5	< 5	< 25
1,2,4-Trichlorobenzene	70	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 5	< 5	< 5	< 25
1,2-Dibromo-3-chloropropane (DBCP)	0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 5	< 5	< 5	< 5	< 25
1,2-Dibromoethane (EDB)	0.05	< 0.2	< 0.2	< 0.2	< 0.2	< 5	< 5	< 5	< 5	< 25
1,2-Dichlorobenzene	600	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 5	< 5	< 5	< 25
1,2-Dichloroethane	5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 5	< 5	< 5	< 25
1,2-Dichloropropane	5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 5	< 5	< 5	< 25
1,3-Dichlorobenzene	NS	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 5	< 5	< 5	< 25
1,4-Dichlorobenzene	75	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 5	< 5	< 5	< 25
2-Butanone (MEK)	NS	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 10	< 10	**4.6 J//**	< 50
2-Hexanone	NS	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 10	< 10	< 10	< 50
4-Methyl-2-pentanone	NS	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 10	< 10	< 10	< 50
Acetone	NS	< 0.5	< 0.5	< 0.5	< 0.5	< 20	< 20	< 20	**16 J//**	< 100
Benzene	5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 5	< 5	< 5	< 25
Bromodichloromethane	80 [1]	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 5	< 5	< 5	< 25
Bromoform	80 [1]	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 5	< 5	< 5	< 25
Bromomethane (Methyl bromide)	NS	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 5	< 5	< 5	< 25
Carbon disulfide	NS	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 5	< 5	< 5	< 25
Carbon tetrachloride	5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 5	< 5	< 5	< 25
Chlorobenzene	100	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 5	< 5	< 5	< 25
Chloroethane	NS	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 5	< 5	< 5	< 25
Chloroform	80 [1]	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 5	< 5	< 5	< 25
Chloromethane (Methyl chloride)	NS	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 5	< 5	< 5	< 25
cis-1,2-Dichloroethene	70	< 0.5	**6.9**	< 0.5	< 0.5	**0.94 J**	< 5	< 5	< 5	**7.7 J//**
cis-1,3-Dichloropropene	NS	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 5	< 5	< 5	< 25
Cyclohexane	NS	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 5	< 5	< 5	< 25
Dibromochloromethane	80 [1]	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 5	< 5	< 5	< 25
Dichlorodifluoromethane	NS	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 5	< 5	< 5	< 25
Ethylbenzene	700	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 5	< 5	< 5	< 25
Isopropylbenzene	NS	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 5	< 5	< 5	< 25
Methyl acetate	NS	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 5	< 5	< 5	< 25
Methyl tertiary butyl ether (MTBE)	NS	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 5	< 5	< 5	< 25
Methylcyclohexane	NS	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 5	< 5	< 5	< 25
Methylene chloride	5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 5	< 5	< 5	< 25
Styrene	100	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 5	< 5	< 5	< 25
Tetrachloroethene	5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 5	< 5	< 5	< 25
Toluene	1000	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 5	< 5	< 5	< 25
trans-1,2-Dichloroethene	100	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 5	< 5	< 5	< 25
trans-1,3-Dichloropropene	NS	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 5	< 5	< 5	< 25
Trichloroethene	5	< 0.5	**64**	< 0.5	< 0.5	**15**	< 5	< 5	< 5	**270**
Trichlorofluoromethane	NS	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 5	< 5	< 5	< 25
Vinyl chloride	2	< 0.2	< 0.2	< 0.2	< 0.2	< 2	< 2	< 2	< 2	< 10
Xylenes (total)	10000	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 5	< 5	< 5	< 25

Notes:

[1] - 1998 Final Rule for Disinfectants and Disinfection By-Products. The total for trihalomethanes is 80 µg/L.
MCL - Maximum Contaminant Level (USEPA, April 2012)
NS - No Standard
USEPA - United States Environmental Protection Agency
Bold font and shading indicates the analyte was detected.
Bold outline indicates an exceedance of the MCL.
See Table X for definition of data flags.

Table 9
Summary of Volatile Organic Compounds in Surface Water
Shakespeare
Newberry, South Carolina

Sample ID	SW-1			SW-2			SW-3		
Laboratory ID	PH29019-001			PH29019-002			PH29019-003		
Date Collected	08/29/14			08/29/14			08/29/14		
Volatile Organic Compounds by USEPA Method 8260B (µg/L)									
1,1,1-Trichloroethane	<	5	//y	<	5	//y	<	5	//y
1,1,2,2-Tetrachloroethane	<	5	//y	<	5	//y	<	5	//y
1,1,2-Trichloro-1,2,2-Trifluoroethane	<	5	//y	<	5	//y	<	5	//y
1,1,2-Trichloroethane	<	5	//y	<	5	//y	<	5	//y
1,1-Dichloroethane	<	5	//y	<	5	//y	<	5	//y
1,1-Dichloroethene	<	5	//y	<	5	//y	<	5	//y
1,2,4-Trichlorobenzene	<	5	//y	<	5	//y	<	5	//y
1,2-Dibromo-3-chloropropane (DBCP)	<	5	//y	<	5	//y	<	5	//y
1,2-Dibromoethane (EDB)	<	5	//y	<	5	//y	<	5	//y
1,2-Dichlorobenzene	<	5	//y	<	5	//y	<	5	//y
1,2-Dichloroethane	<	5	//y	<	5	//y	<	5	//y
1,2-Dichloropropane	<	5	//y	<	5	//y	<	5	//y
1,3-Dichlorobenzene	<	5	//y	<	5	//y	<	5	//y
1,4-Dichlorobenzene	<	5	//y	<	5	//y	<	5	//y
2-Butanone (MEK)	<	10	//y	<	10	//y	<	10	//y
2-Hexanone	<	10	//y	<	10	//y	<	10	//y
4-Methyl-2-pentanone	<	10	//y	<	10	//y	<	10	//y
Acetone	<	20	//y	<	20	//y		**11**	**J//y**
Benzene	<	5	//y	<	5	//y	<	5	//y
Bromodichloromethane	<	5	//y	<	5	//y	<	5	//y
Bromoform	<	5	//y	<	5	//y	<	5	//y
Bromomethane (Methyl bromide)	<	5	//y	<	5	//y	<	5	//y
Carbon disulfide	<	5	//y	<	5	//y	<	5	//y
Carbon tetrachloride	<	5	//y	<	5	//y	<	5	//y
Chlorobenzene	<	5	//y	<	5	//y	<	5	//y
Chloroethane	<	5	//y	<	5	//y	<	5	//y
Chloroform	<	5	//y	<	5	//y	<	5	//y
Chloromethane (Methyl chloride)	<	5	//y	<	5	//y	<	5	//y
cis-1,2-Dichloroethene		**0.51**	**J//y**	<	5	//y	<	5	//y
cis-1,3-Dichloropropene	<	5	//y	<	5	//y	<	5	//y
Cyclohexane	<	5	//y	<	5	//y	<	5	//y
Dibromochloromethane	<	5	//y	<	5	//y	<	5	//y
Dichlorodifluoromethane	<	5	//y	<	5	//y	<	5	//y
Ethylbenzene	<	5	//y	<	5	//y	<	5	//y
Isopropylbenzene	<	5	//y	<	5	//y	<	5	//y
Methyl acetate	<	5	//y	<	5	//y	<	5	//y
Methyl tertiary butyl ether (MTBE)	<	5	//y	<	5	//y	<	5	//y
Methylcyclohexane	<	5	//y	<	5	//y	<	5	//y
Methylene chloride	<	5	//y	<	5	//y	<	5	//y
Styrene	<	5	//y	<	5	//y	<	5	//y
Tetrachloroethene	<	5	//y	<	5	//y	<	5	//y
Toluene	<	5	//y	<	5	//y	<	5	//y
trans-1,2-Dichloroethene	<	5	//y	<	5	//y	<	5	//y
trans-1,3-Dichloropropene	<	5	//y	<	5	//y	<	5	//y
Trichloroethene	<	5	//y	<	5	//y	<	5	//y
Trichlorofluoromethane	<	5	//y	<	5	//y	<	5	//y
Vinyl chloride	<	2	//y	<	2	//y	<	2	//y
Xylenes (total)	<	5	//y	<	5	//y	<	5	//y

Notes:
Bold font and shading indicates the analyte was detected.
See Table X for definition of data flags.