U.S. Army Corps of Engineers – Charleston District - Regulatory Division

JURISDICTIONAL DETERMINATION REQUEST

For Identifying Waters of the U.S., Including Wetlands and Tributaries

Project Name: Chester Technology Park **Date**: 8-13-2010

County: Chester **Total Acreage of Tract**: 163.2

Property Owner : County of Chester
Address: (c/o Karlisa Parker)
Address: Post Office Box 580
Phone: Chester, SC 29706
Email: (803) 385-6157

Agent: S&ME, Inc. (c/o Chris Daves, P.W.S.)
Address: 134 Suber Road
Address: Columbia, SC 29210
Phone: (803) 561-9024
Email: cdaves@smeinc.com

Information Required to Accompany Request - Check the items submitted - forward as much information as is available. At a minimum, the first two items must be forwarded:

- [x] Accurate Location Maps (from County Map, USGS Quad Sheet, etc.)
- [x] Survey Plat or Tax Map of the Property in Question
- [x] Soil Survey Sheet (from USDA-NRCS) or Aerial Photo (from County Assessor's Office or other source). Property boundaries should be shown on the soil survey / photo.
- [ ] Topographic Survey
- [ ] Conceptual Site Plan for the Overall Development
- [x] Description of the proposed use of the property (residential, commercial, industrial, silvicultural, agricultural, etc.)
- [x] Status of the project (on-going site work for development, development in planning stages, no plans at this time, etc.)

Type of Determination Requested - Choose one:

- ○ Preliminary – Preliminary determinations will identify whether wetlands or other waters are present on the site and will presume that they are jurisdictional. This type of determination is likely to be made more quickly and require less information be submitted.
- ◉ Approved – Approved determinations will identify whether wetlands or other waters are present on the site and will include a determination of their jurisdictional status. This type of determination is likely to take longer and require more detailed information be submitted.

IMPORTANT NOTE: Legible printed name and signature required. The person signing this form must be the present property owner or have the specific authority of the property owner to authorize Corps of Engineers employees or their agents to enter onto the property for on-site investigations if such is deemed necessary. Do not sign this form unless you are the owner, or have the specific authority of the property owner.

PRINTED NAME of person signing this form, below: Chris Daves, P.W.S.

Signature of Property Owner or Authorized Agent: Chris Daves

HQ and South Branch
69-A Hagood Avenue
Charleston, SC 29403
843-329-8044

Northeast Branch
1949 Industrial Park Rd, Room 140
Conway, SC 29526
843-365-4239

Northwest Branch
1853 Assembly St., Room 865-B
Columbia, SC 29201
803-253-3444

Copies of this form may be obtained at: http://www.sac.usace.army.mil/assets/pdf/regulatory/permits/request_jurisdictional_determination_form.pdf

August 13, 2010

U.S. Army Corps of Engineers
Columbia Regulatory Field Office
Strom Thurmond Federal Building
1835 Assembly Street, Room 865 B-1
Columbia, South Carolina 29201

Attention: Watershed 5 Project Manager

Reference: Request for Jurisdictional Determination
Chester Technology Park – 163.2 Acres
Chester, Chester County, South Carolina
S&ME Project No. 1614-10-257

Dear Watershed 5 Project Manager:

On behalf of Chester County and Alliance Consulting Engineers, S&ME, Inc. (S&ME) has completed a wetland delineation at the above-referenced site. The approximately 163.2-acre site is located south of the intersection of S.C. Highway 9 and Ballymena Road just east of Chester in Chester County, South Carolina as depicted on Figure 1 (Vicinity Map) and Figure 2 (Topographic Map) in Appendix A. The site is located in the Catawba River watershed (HUC 03050103) and USACE Watershed Group 5).

WETLAND DELINEATION

S&ME Biologist Chris Daves conducted the wetland delineation on July 14 and August 10, 2010. Please refer to the tables below for information regarding the on-site features included in the delineation. Please refer to Figure 3 (Aerial Map) in Appendix A for the approximate locations of the delineated features.

JURISDICTIONAL WATERS

Wetlands

One jurisdictional wetland (Wetland A) was observed on the northern portion of the site. Wetland A abuts Stream 2.

Table 1 – Jurisdictional Wetlands

Wetland ID	Photo ID	Feature Type	Approximate Acreage (ac)
A	1-2	Forested	0.91

Streams

Three jurisdictional linear features (Streams 1-3) were observed on the site. Stream 1 appears to be a Perennial Relatively Permanent Water (P-RWP) flowing east from an impoundment just west of the site. Stream 2 appears to be a Seasonal RPW (S-RPW) flowing north from Wetland A. Stream 3 also appears to be a S-RPW flowing east into an impoundment located just east of the site. Stream 3 is a second-order stream formed by the junction of two Non-RPWs (Non-RPWs 2 and 5).

Table 2 – Jurisdictional Linear Features

ID	Photo ID	Linear Feature Type	Approximate Linear Footage (lf)	Approximate Acreage (ac)
Stream 1	7	P-RPW	270	0.025
Stream 2	8	S-RPW	100	0.007
Stream 3	9	S-RPW	90	0.008
		Total	**460**	**0.040**

NON-JURISDICTIONAL WATERS

Wetlands/Upland-Dug Pond

Wetlands B and C were observed on the northern portion of the site. These depressional wetlands appear to be isolated with no hydrologic connections to other jurisdictional waters. An upland-dug pond was also observed on the southeastern portion of the site. The upland-dug pond is fed by Non-RPW 4 as well as overland flow from the surrounding fields during heavy rain events. Mapping from the USGS and the U.S. Department of Agriculture-National Resource Conservation Service (USDA-NRCS) depict a linear, blue-line feature (Non-RPW 5) extending east from the pond indicating a surface connection between these two features. However, our field reconnaissance did not indicate this to be accurate. No riser pipe, culvert, or dam seepage was observed to indicate a surface connection between the upland-dug pond and Non-RPW 5. In the event the upland-dug pond exceeds its capacity, the overflow is directed to an earthen spillway on the southeastern side of earthen dam. The overflow then dissipates in the field southeast of the upland-dug pond. Over 500 feet separate the upland-dug pond from Non-RPW 3 located to the east. Based on these observations, the upland-dug pond appears to be a non-jurisdictional feature.

Table 3 – Isolated, Non-Jurisdictional Wetlands/Pond

ID	Photo ID	Feature Type	Approximate Acreage (ac)
Wetland B	3-4	Depressional	0.005
Wetland C	5-6	Depressional	0.005
Upland-Dug Pond	10	Upland-Dug Pond	1.38
		Total	**1.39**

Ephemeral Drainages/Non-RPWs

Six ephemeral/Non-RPW drainage features were observed on the site. These features lacked flow, and in most locations, lacked ordinary high water marks (OHWM) as well as bed and bank channel features.

Table 4 – Non-Jurisdictional Linear Features

ID	Photo ID	Linear Feature Type	Approximate Linear Footage (lf)	Approximate Acreage (ac)
Non-RPW 1	11	Non-RPW	250	0.017
Non-RPW 2	12	Non-RPW	1,350	0.093
Non-RPW 3	13	Non-RPW	715	0.042
Non-RPW 4	14	Non-RPW	350	0.021
Non-RPW 5	15	Non-RPW	720	0.049
Non-RPW 6	16	Non-RPW	300	0.021
		Total	**2,385 lf**	**0.254**

UPLANDS

Upland areas (Photographs 17-20) on the site are predominantly open fields and mixed hardwood forestland. Vegetation was dominated by upland species and no evidence of hydrology was observed. The upland areas of the site consist of non-hydric soil series such as Iredell and Wilkes listed in the USDS-NRCS Web Soil Survey (Figure 4 – Soils Map). These areas are considered upland as all three wetland criteria (wetland vegetation, soils, or hydrology) were not observed.

ENCLOSURES

Included in Appendices A and B, please find the following information for your review:

Appendix A

Figure 1 - Vicinity Map, Figure 2 - Topographic Map, Figure 3 - Aerial Map, Figure 4 - Soils Map, Figure 5 - NWI Map, Site Photographs

Appendix B

Wetland/Upland Datasheets

CLOSING

Thank you for your time and attention to this project. If you require a field visit to verify the delineation, we look forward to meeting you on-site. If we can provide additional information, please do not hesitate to contact Chris Daves at 803-561-9024.

Sincerely,
S&ME, Inc.

Amanda White
Biologist

Chris Daves, P.W.S.
Biologist

Senior reviewed by Tom Behnke, P.G., Environmental Department Manager

cc: Mr. Kyle Clampitt, P.E.

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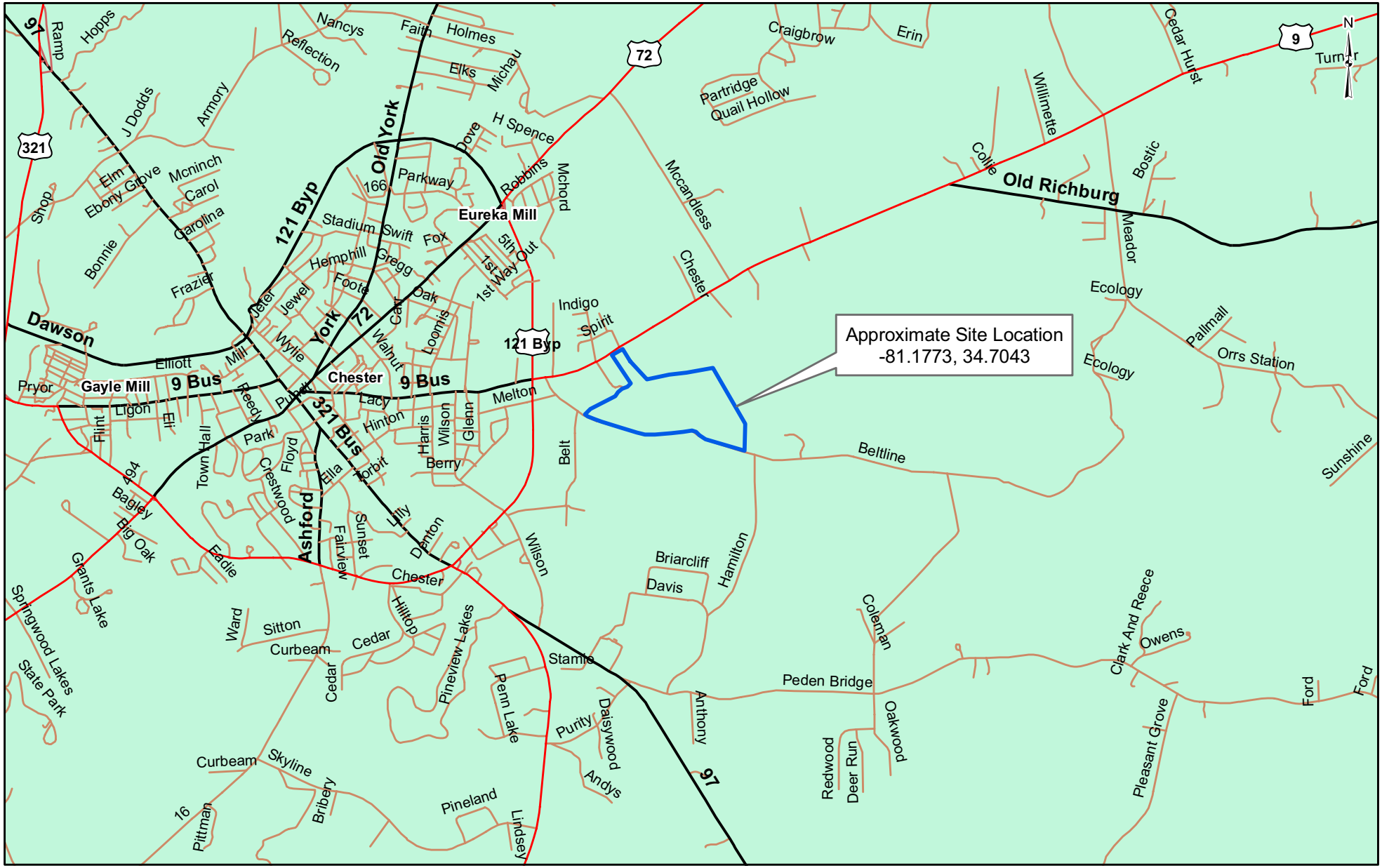
Appendix A

Vicinity Map
Topographic Map
Aerial Map
Soils Map
NWI Map
Site Photographs



Source: ESRI Streetmap

SCALE:	1 inch = 4,000 feet
CHECKED BY:	WCD
DRAWN BY:	ADW
DATE:	8/13/2010

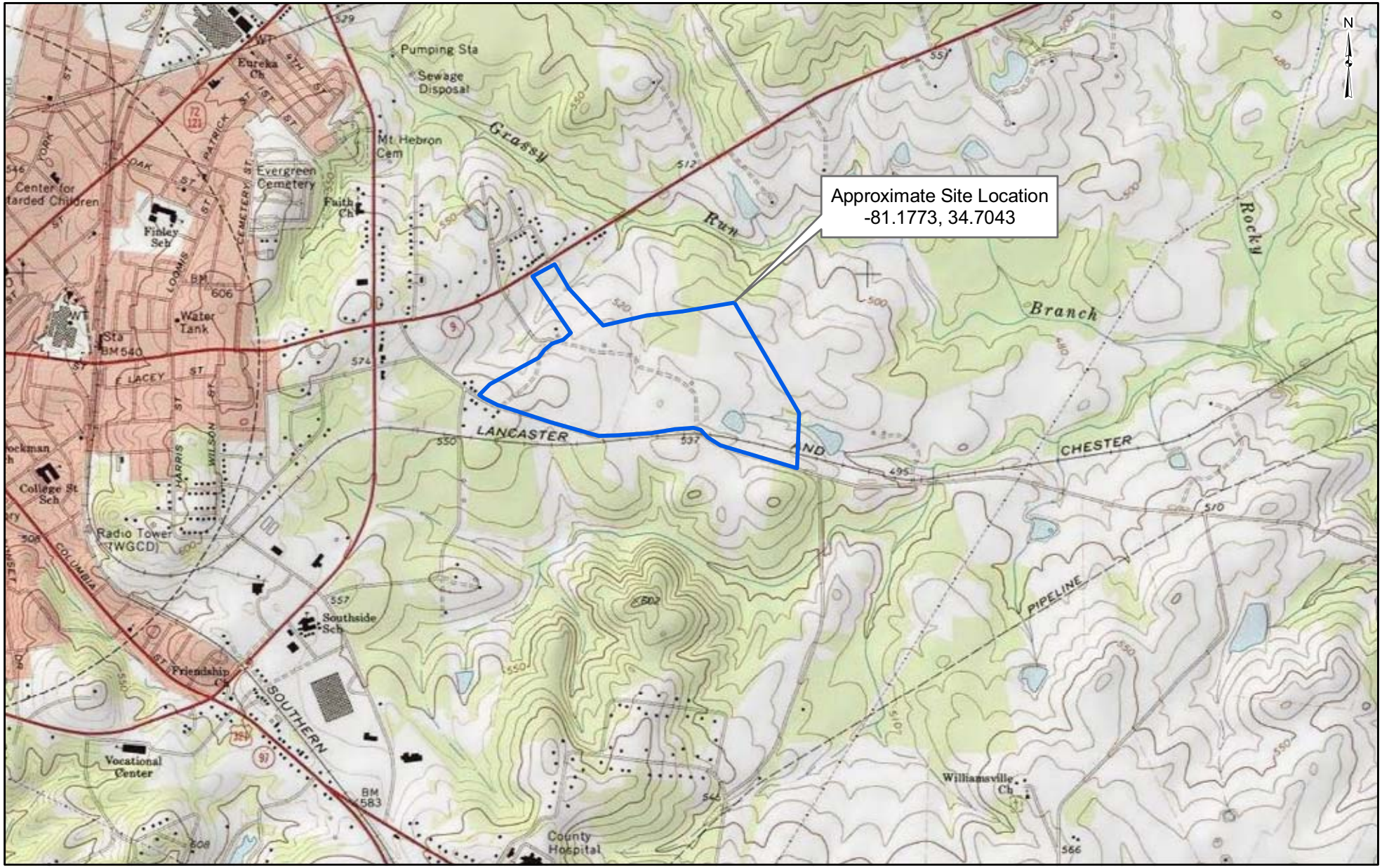
S&ME

Vicinity Map

Chester Technology Park - 163.2 Acres
Chester County, South Carolina

S&ME PROJECT NO. 1614-10-257

FIGURE NO. 1



Source: USGS 7.5-minute quadrangle
Chester, SC - 1983

Feet
0 1,000 2,000 4,000 6,000 8,000

SCALE:	1 inch = 2,000 feet
CHECKED BY:	WCD
DRAWN BY:	ADW
DATE:	8/13/2010

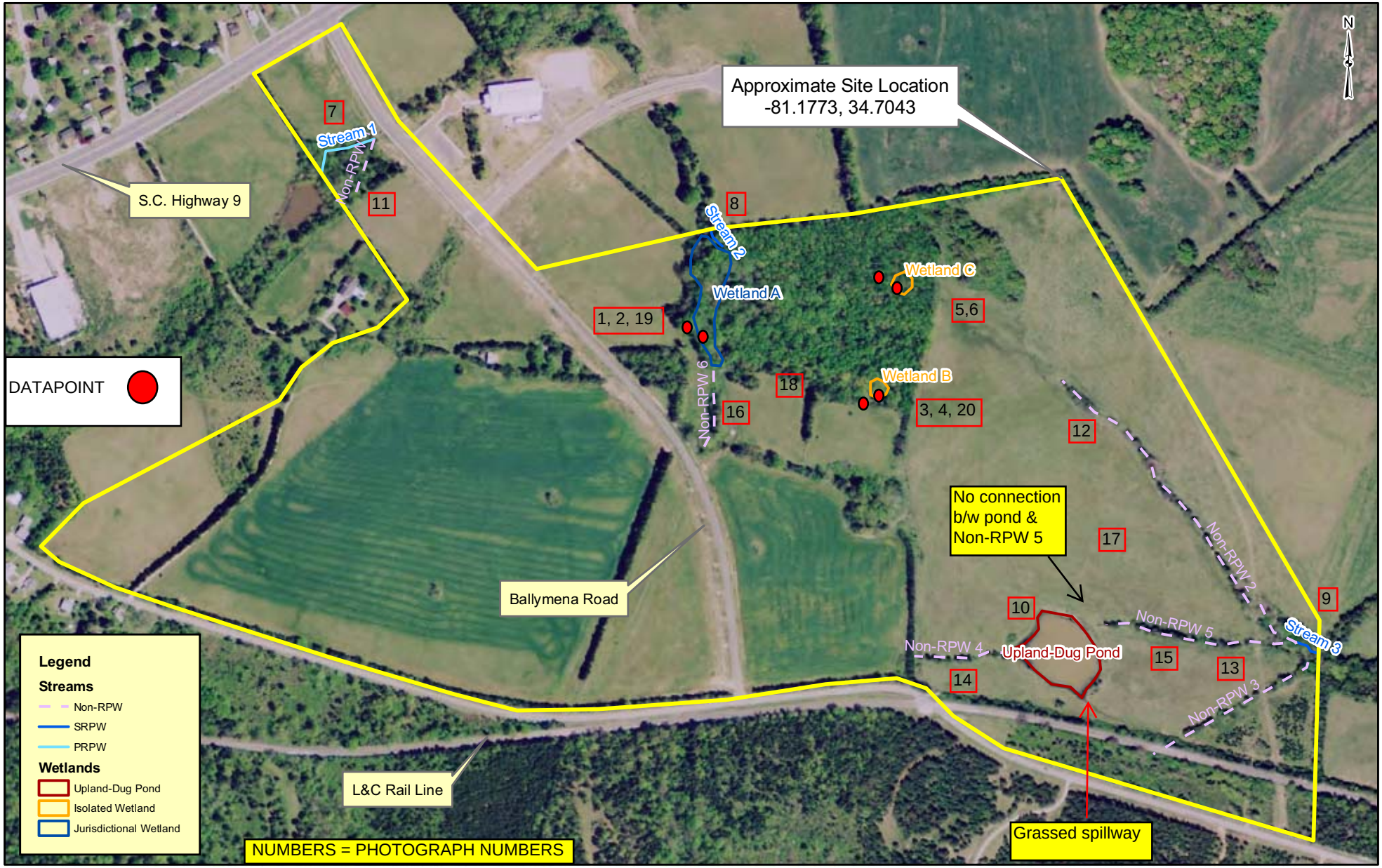
S&ME

Topographic Map

Chester Technology Park - 163.2 Acres
Chester County, South Carolina

S&ME PROJECT NO. 1614-10-257

FIGURE NO.
2



Source: ESRI Resource Center

SCALE:	1 inch = 500 feet
CHECKED BY:	WCD
DRAWN BY:	ADW
DATE:	8/13/2010

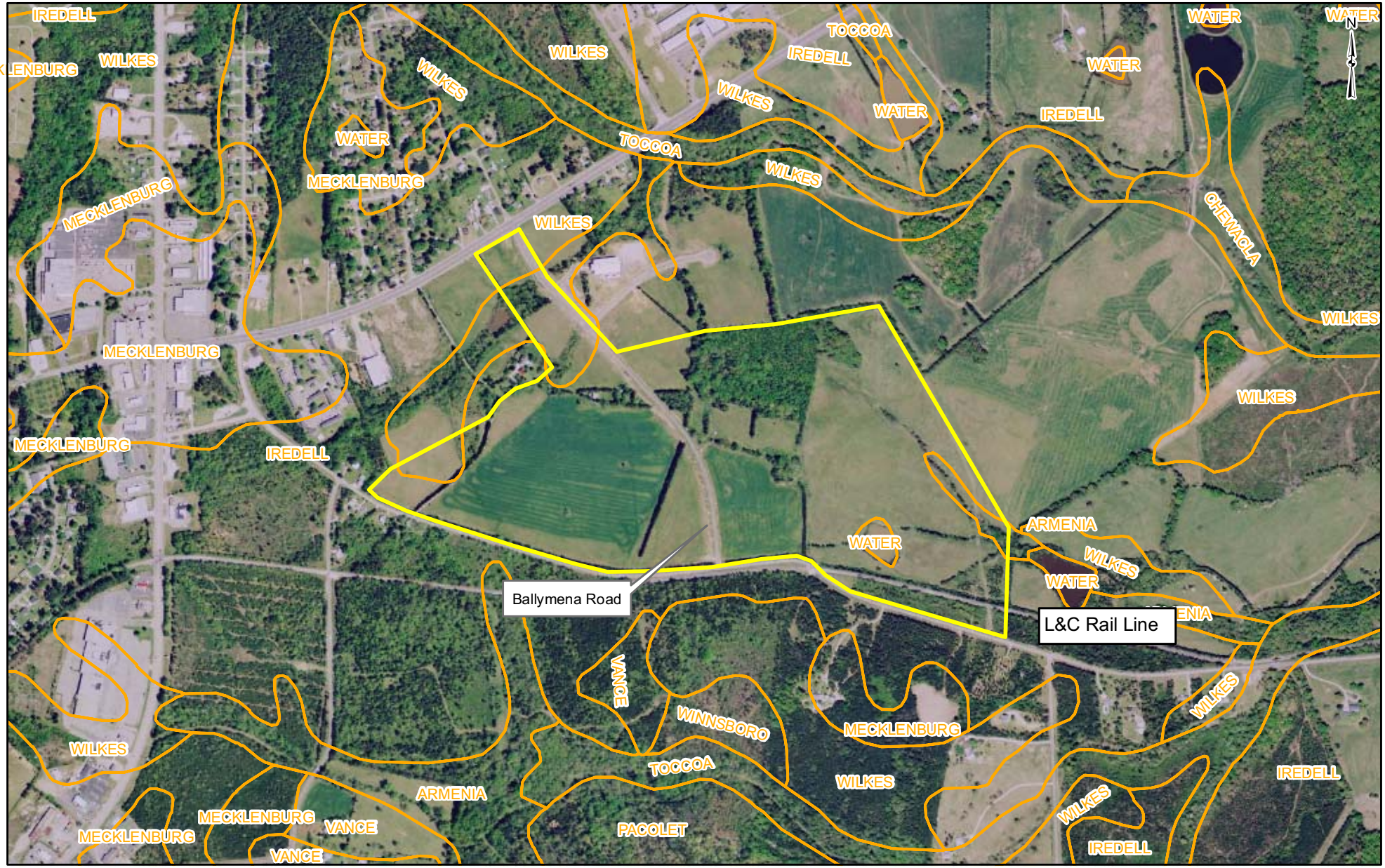
S&ME

Aerial Map

Chester Technology Park - 163.2 Acres
Chester County, South Carolina

S&ME PROJECT NO. 1614-10-257

FIGURE NO. 3



Source: USDA Web Soil Survey
ESRI Resource Center

0 500 1,000 2,000 3,000 4,000 Feet

SCALE:	1 inch = 1,000 feet
CHECKED BY:	WCD
DRAWN BY:	ADW
DATE:	8/13/2010

S&ME

Soils Map

Chester Technology Park - 163.2 Acres
Chester County, South Carolina

S&ME PROJECT NO. 1614-10-257

FIGURE NO. 4

U.S. Fish and Wildlife Service

National Wetlands Inventory

FIG.5 - NWI MAP

Jul 9, 2010

Wetlands

- Freshwater Emergent
- Freshwater Forested/Shrub
- Estuarine and Marine Deetwater
- Estuarine and Marine
- Freshwater Pond
- Lake
- Riverine
- Other

User Remarks:

CHESTER TECHNOLOGY PARK

1 Wetland A (forested wetland) with drainage patterns on northern portion of site..

2 Hydric soils (10YR 4/2) in Wetland A.

3 Wetland B (depressional wetland) on northern portion of site.

4 Hydric soils (10YR 3/1) in Wetland B.

S&ME	**Site Photographs** **Chester Technology Park** **Chester County, South Carolina**	S&ME Project 1614-10-257	
		Taken by: WCD	Date: July 14 & August 10, 2010

5 Wetland C (depressional wetland) on northern portion of site.

6 Hydric soils (10YR 4/2) in Wetland C.

7 Stream 1 (P-RPW) on northern portion of site.

8 Stream 2 (S-RPW) on northern portion of site.

S&ME	**Site Photographs** **Chester Technology Park** **Chester County, South Carolina**	S&ME Project 1614-10-257	
		Taken by: WCD	Date: July 14 & August 10, 2010

9 Stream 3 (S-RPW) on eastern portion of site. Stagnant pools with non-flowing water were observed during site visit.

10 Upland-dug pond on southeastern portion of site. Pond does not have a hydrologic connection to other jurisdictional waters.

11 Non-RPW 1 on northern portion of site.

12 Non-RPW 2 on eastern portion of site.

S&ME	**Site Photographs** **Chester Technology Park** **Chester County, South Carolina**	S&ME Project 1614-10-257	
		Taken by: WCD	Date: July 14 & August 10, 2010

13 Non-RPW 3 on southeastern portion of site.

14 Non-RPW 4 on southeastern portion of site.

15 Non-RPW 5 on southeastern portion of site. Photo taken facing east just below upland-dug pond.

16 Non-RPW 6 on northern portion of site.

S&ME	**Site Photographs** **Chester Technology Park** **Chester County, South Carolina**	S&ME Project 1614-10-257	
		Taken by: WCD	Date: July 14 & August 10, 2010

17 Typical open field on site.

18 Typical mixed hardwood forestland on northern portion of site.

19 Upland soils adjacent to Wetland A (10YR 4/3).

20 Upland soils adjacent to Wetland B (10YR 5/3).

S&ME	**Site Photographs** **Chester Technology Park** **Chester County, South Carolina**	S&ME Project 1614-10-257	
		Taken by: WCD	Date: July 14 & August 10, 2010

Appendix B

Wetland/Upland Datasheets

DATA FORM

ROUTINE WETLAND DELINEATION

(1987 COE WETLANDS DELINEATION MANUAL)

Project/ Site:	**Chester Technology Park**		Date:	**7/14/2010**
Applicant/Owner:	**Chester County**		County:	**Chester**
Investigator:	**Chris Daves - S&ME, Inc.**		State:	**S.C.**
Do normal circumstances exist on the site?……>		**Yes**	Community ID	**Wet A (PFO1)**
Is the site significantly disturbed (atypical situation)?…… >		**No**	Plot ID:	**1**
Is the area a potential problem area?……>		**No**	Lat/Long:	**34.7059/ -81.1775**

VEGETATION

	Dominant Plant Species	Stratum	Indicator		Dominant Plant Species	Stratum	Indicator
1	***Celtis laevigata***	***Tree***	***FACW***	9	***Ligustrum sinense***	***Shrub***	***FAC***
2	***Ulmus americana***	***Tree***	***FACW***	10	***Toxicodendron radicans***	***Herb***	***FAC***
3	***Quercus phellos***	***Tree***	***FACW-***	11			
4	***Carya glabra***	***Tree***	***FACU***	12			
5	***Juniperus virginina***	***Tree***	***FACU-***	13			
6	***Celtis laevigata***	***Sapl.***	***FACW***	14			
7	***Carya glabra***	***Sapl.***	***FACU***	15			
8	***Juniperus virginina***	***Sapl.***	***FACU-***	16			

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): **60%**

Remarks: ***Hydrophytic vegetation present***

HYDROLOGY

X Recorded Data (describe in remarks)	Wetland Hydrology Indicators:	
	Primary Indicators:	
_____ Steam, lake or tide gauge	Inundated……>	
X Aerial photographs	Saturated in upper 12 inches……>	**X**
_____ Other	Water Marks……>	**X**
_____ No Recorded Data Available	Drift lines……>	**X**
	Sediment deposits……>	
	Drainage patterns……>	**X**
Field Observations:	Secondary Indicators:	
Depth of surface water:	Oxidized root channels in upper 12 inches……>	**X**
Depth to free water in pit:	Water-stained leaves……>	**X**
Depth to saturated soil: **12-14 in.**	Local soil survey data……>	
	FAC neutral test……>	
	Other (explain)	

Remarks: ***Wetland hydrology present. Several drainage patterns and abundant drift lines.***

SOILS

Map Unit Name:	***IdB***	Drainage Class:	***Mod. Well***
(Series and Phase):	***Iredell fsl***	Field Observations	
Taxonomy (subgroup):	***Typic hapludalfs***	Confirm Mapped Type?	

Profile Descriptions:

Depth	Horizon	Matrix Color	Mottle Color	Mottle Abundance	Texture
1-16"	**A**	**10 YR 4/2**			**Sandy loam**

Hydric Soil Indicators:

Histosol……>		Concretions……>	
Histic epipedon……>		High organic content in the surface layer	
Sulfidic odor……>		of sandy soils……>	
Aquic moisture regime……>		Organic streaking in sandy soils……>	
Reducing conditions……>		Listed on local hydric soils list……>	
Gleyed or low chroma colors……>	**X**	Listed on national hydric soils list……>	
		Other (explain)	

Remarks: ***Hydric soils present***

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	***Yes***	Is this sampling point within a wetland?
Wetland Hydrology Present?	***Yes***	***Yes***
Hydric Soils Present?	***Yes***	

Remarks: ***Wetland***

DATA FORM

ROUTINE WETLAND DELINEATION

(1987 COE WETLANDS DELINEATION MANUAL)

Project/ Site:	**Chester Technology Park**		Date:	**7/14/2010**
Applicant/Owner:	**Chester County**		County:	**Chester**
Investigator:	**Chris Daves - S&ME, Inc.**		State:	**S.C.**
Do normal circumstances exist on the site?……>		**Yes**	Community ID	**Upland A**
Is the site significantly disturbed (atypical situation)?…… >		**No**	Plot ID:	**1**
Is the area a potential problem area?……>		**No**	Lat/Long:	**34.7059/ -81.1775**

VEGETATION

	Dominant Plant Species	Stratum	Indicator		Dominant Plant Species	Stratum	Indicator
1	***Carya glabra***	***Tree***	***FACU***	9			
2	***Juniperus virginina***	***Tree***	***FACU-***	10			
3	***Carya glabra***	***Sapl.***	***FACU***	11			
4	***Juniperus virginina***	***Sapl.***	***FACU-***	12			
5	***Ligustrum sinense***	***Shrub***	***FAC***	13			
6	***Asplenium platyneuron***	***Herb***	***FACU***	14			
7	***Lonicera japonica***	***Herb***	***FAC-***	15			
8				16			

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): **14%**

Remarks: ***Hydrophytic vegetation not present***

HYDROLOGY

X Recorded Data (describe in remarks)	Wetland Hydrology Indicators:	
	Primary Indicators:	
_____ Steam, lake or tide gauge	Inundated……..>	
X Aerial photographs	Saturated in upper 12 inches……..>	
_____ Other	Water Marks……>	
_____ No Recorded Data Available	Drift lines……..……>	
	Sediment deposits……..……>	
	Drainage patterns……..>	
Field Observations:	Secondary Indicators:	
Depth of surface water:	Oxidized root channels in upper 12 inches……..……>	
Depth to free water in pit:	Water-stained leaves……..……>	
Depth to saturated soil: **> 24 in**	Local soil survey data……..……>	
	FAC neutral test……..……>	
	Other (explain)	

Remarks: ***Wetland hydrology not present.***

SOILS

Map Unit Name:	***IdB***	Drainage Class:	***Mod. Well***
(Series and Phase):	***Iredell fsl***	Field Observations	
Taxonomy (subgroup):	***Typic hapludalfs***	Confirm Mapped Type?	

Profile Descriptions:

Depth	Horizon	Matrix Color	Mottle Color	Mottle Abundance	Texture
1-16"	**A**	**10 YR 4/4**			**Sandy loam**

Hydric Soil Indicators:

Histosol……>		Concretions……>	
Histic epipedon……..>		High organic content in the surface layer	
Sulfidic odor……...>		of sandy soils……>	
Aquic moisture regime……..>		Organic streaking in sandy soils……..>	
Reducing conditions……..>		Listed on local hydric soils list……..…..>	
Gleyed or low chroma colors……..>		Listed on national hydric soils list……>	
		Other (explain)	

Remarks: ***Hydric soils not present***

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	***No***	Is this sampling point within a wetland?
Wetland Hydrology Present?	***No***	***No***
Hydric Soils Present?	***No***	

Remarks: ***Upland A***

DATA FORM

ROUTINE WETLAND DELINEATION

(1987 COE WETLANDS DELINEATION MANUAL)

Project/ Site:	**Chester Technology Park**		Date:	**7/14/2010**
Applicant/Owner:	**Chester County**		County:	**Chester**
Investigator:	**Chris Daves - S&ME, Inc.**		State:	**S.C.**
Do normal circumstances exist on the site?……>		**Yes**	Community ID	**Wet B (PEM)**
Is the site significantly disturbed (atypical situation)?…… >		**No**	Plot ID:	**1**
Is the area a potential problem area?……>		**No**	Lat/Long:	**34.7050/ -81.1754**

VEGETATION

	Dominant Plant Species	Stratum	Indicator		Dominant Plant Species	Stratum	Indicator
1	***Juncus effusus***	***Herb***	***FACW+***	9			
2	***Eleocharis obtusa***	***Herb***	***OBL***	10			
3				11			
4				12			
5				13			
6				14			
7				15			
8				16			

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): **100%**

Remarks: ***Hydrophytic vegetation present***

HYDROLOGY

X Recorded Data (describe in remarks)	Wetland Hydrology Indicators:	
	Primary Indicators:	
____ Steam, lake or tide gauge	Inundated……>	
X Aerial photographs	Saturated in upper 12 inches……>	**X**
____ Other	Water Marks……>	**X**
____ No Recorded Data Available	Drift lines……>	
	Sediment deposits……>	
	Drainage patterns……>	
Field Observations:	Secondary Indicators:	
Depth of surface water:	Oxidized root channels in upper 12 inches……>	**X**
Depth to free water in pit:	Water-stained leaves……>	**X**
Depth to saturated soil: **10-12 in.**	Local soil survey data……>	
	FAC neutral test……>	**X**
	Other (explain)	

Remarks: ***Wetland hydrology present.***

SOILS

Map Unit Name:	***IdB***	Drainage Class:	***Mod. Well***
(Series and Phase):	***Iredell fsl***	Field Observations	
Taxonomy (subgroup):	***Typic hapludalfs***	Confirm Mapped Type?	

Profile Descriptions:

Depth	Horizon	Matrix Color	Mottle Color	Mottle Abundance	Texture
1-16"	**A**	**10 YR 3/1**			**Sandy loam**

Hydric Soil Indicators:

Histosol……>		Concretions……>	
Histic epipedon……>		High organic content in the surface layer	
Sulfidic odor……>		of sandy soils……>	
Aquic moisture regime……>		Organic streaking in sandy soils……>	
Reducing conditions……>		Listed on local hydric soils list……>	
Gleyed or low chroma colors……>	**X**	Listed on national hydric soils list……>	
		Other (explain)	

Remarks: ***Hydric soils present***

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	***Yes***	Is this sampling point within a wetland?
Wetland Hydrology Present?	***Yes***	***Yes***
Hydric Soils Present?	***Yes***	

Remarks: ***Wetland B***

DATA FORM

ROUTINE WETLAND DELINEATION

(1987 COE WETLANDS DELINEATION MANUAL)

Project/ Site:	**Chester Technology Park**		Date:	**7/14/2010**
Applicant/Owner:	**Chester County**		County:	**Chester**
Investigator:	**Chris Daves - S&ME, Inc.**		State:	**S.C.**
Do normal circumstances exist on the site?……>		**Yes**	Community ID	**Upland B**
Is the site significantly disturbed (atypical situation)?…… >		**No**	Plot ID:	**1**
Is the area a potential problem area?……>		**No**	Lat/Long:	**34.7050/ -81.1754**

VEGETATION

	Dominant Plant Species	Stratum	Indicator		Dominant Plant Species	Stratum	Indicator
1	***Juniperus virginiana***	***Tree***	***FACU-***	9			
2	***Ulmus alata***	***Sapling***	***FACU+***	10			
3	***Lonciera japonica***	***Herb***	***FAC-***	11			
4				12			
5				13			
6				14			
7				15			
8				16			

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): **0%**

Remarks: ***Hydrophytic vegetation not present***

HYDROLOGY

X Recorded Data (describe in remarks)	Wetland Hydrology Indicators:	
	Primary Indicators:	
_____ Steam, lake or tide gauge	Inundated……..>	
X Aerial photographs	Saturated in upper 12 inches……..>	
_____ Other	Water Marks……>	
_____ No Recorded Data Available	Drift lines……..……>	
	Sediment deposits……..……>	
	Drainage patterns……..>	
Field Observations:	Secondary Indicators:	
Depth of surface water:	Oxidized root channels in upper 12 inches……..…>	
Depth to free water in pit:	Water-stained leaves……..……>	
Depth to saturated soil: **> 24 in.**	Local soil survey data……..……>	
	FAC neutral test……..……>	
	Other (explain)	

Remarks: ***Wetland hydrology not present.***

SOILS

Map Unit Name:	***IdB***	Drainage Class:	***Mod. Well***
(Series and Phase):	***Iredell fsl***	Field Observations	
Taxonomy (subgroup):	***Typic hapludalfs***	Confirm Mapped Type?	

Profile Descriptions:

Depth	Horizon	Matrix Color	Mottle Color	Mottle Abundance	Texture
1-16"	**A**	**10 YR 5/3**			**Loamy clay**

Hydric Soil Indicators:

Histosol……>		Concretions……>	
Histic epipedon……..>		High organic content in the surface layer	
Sulfidic odor……..>		of sandy soils……>	
Aquic moisture regime……..>		Organic streaking in sandy soils……..>	
Reducing conditions……..>		Listed on local hydric soils list……..…>	
Gleyed or low chroma colors……..>		Listed on national hydric soils list……>	
		Other (explain)	

Remarks: ***Hydric soils not present***

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	***No***	Is this sampling point within a wetland?
Wetland Hydrology Present?	***No***	***No***
Hydric Soils Present?	***No***	

Remarks: ***Upland B***

DATA FORM

ROUTINE WETLAND DELINEATION

(1987 COE WETLANDS DELINEATION MANUAL)

Project/ Site:	**Chester Technology Park**		Date:	**7/14/2010**
Applicant/Owner:	**Chester County**		County:	**Chester**
Investigator:	**Chris Daves - S&ME, Inc.**		State:	**S.C.**
Do normal circumstances exist on the site?……>		**Yes**	Community ID	**Wet C**
Is the site significantly disturbed (atypical situation)?…… >		**No**	Plot ID:	**1**
Is the area a potential problem area?……>		**No**	Lat/Long:	**34.7065/ -81.1751**

VEGETATION

	Dominant Plant Species	Stratum	Indicator		Dominant Plant Species	Stratum	Indicator
1	***Campsis radicans***	***Herb***	***FAC***	9			
2				10			
3				11			
4				12			
5				13			
6				14			
7				15			
8				16			
Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-):						**100%**	
Remarks:	***Hydrophytic vegetation present***						

HYDROLOGY

X	Recorded Data (describe in remarks)	Wetland Hydrology Indicators:	
		Primary Indicators:	
	Steam, lake or tide gauge	Inundated……>	
X	Aerial photographs	Saturated in upper 12 inches……>	**X**
	Other	Water Marks……>	**X**
	No Recorded Data Available	Drift lines……>	
		Sediment deposits……>	
		Drainage patterns……>	
Field Observations:		Secondary Indicators:	
Depth of surface water:		Oxidized root channels in upper 12 inches……>	**X**
Depth to free water in pit:		Water-stained leaves……>	**X**
Depth to saturated soil:	**12-14 in.**	Local soil survey data……>	
		FAC neutral test……>	
		Other (explain)	
Remarks:	***Wetland hydrology present.***		

SOILS

Map Unit Name:	***IdB***	Drainage Class:	***Mod. Well***
(Series and Phase):	***Iredell fsl***	Field Observations	
Taxonomy (subgroup):	***Typic hapludalfs***	Confirm Mapped Type?	

Profile Descriptions:

Depth	Horizon	Matrix Color	Mottle Color	Mottle Abundance	Texture
1-16"	**A**	**10 YR 4/2**			**Loamy clay**

Hydric Soil Indicators:

Histosol……>		Concretions……>	
Histic epipedon……>		High organic content in the surface layer	
Sulfidic odor……>		of sandy soils……>	
Aquic moisture regime……>		Organic streaking in sandy soils……>	
Reducing conditions……>		Listed on local hydric soils list……>	
Gleyed or low chroma colors……>	**X**	Listed on national hydric soils list……>	
		Other (explain)	
Remarks:	***Hydric soils present***		

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	***Yes***	Is this sampling point within a wetland?
Wetland Hydrology Present?	***Yes***	***Yes***
Hydric Soils Present?	***Yes***	
Remarks:	***Wetland***	

DATA FORM

ROUTINE WETLAND DELINEATION

(1987 COE WETLANDS DELINEATION MANUAL)

Project/ Site:	**Chester Technology Park**		Date:	**7/14/2010**
Applicant/Owner:	**Chester County**		County:	**Chester**
Investigator:	**Chris Daves - S&ME, Inc.**		State:	**S.C.**
Do normal circumstances exist on the site?……>		**Yes**	Community ID	**Upland C**
Is the site significantly disturbed (atypical situation)?…… >		**No**	Plot ID:	**1**
Is the area a potential problem area?……>		**No**	Lat/Long:	**34.7065/ -81.1751**

VEGETATION

	Dominant Plant Species	Stratum	Indicator		Dominant Plant Species	Stratum	Indicator
1	***Juniperus virginiana***	***Tree***	***FACU-***	9			
2	***Carya glabra***	***Tree***	***FACU***	10			
3	***Quercus alba***	***Tree***	***FACU***	11			
4	***Quercus stellata***	***Sapl.***	***FACU***	12			
5	***Oystra virginiana***	***Sapl.***	***FACU-***	13			
6	***Quercus marilandica***	***Sapl.***	***NI***	14			
7				15			
8				16			

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): **0%**

Remarks: ***Hydrophytic vegetation not present***

HYDROLOGY

X Recorded Data (describe in remarks)	Wetland Hydrology Indicators:	
	Primary Indicators:	
_____ Steam, lake or tide gauge	Inundated……>	
X Aerial photographs	Saturated in upper 12 inches……>	
_____ Other	Water Marks……>	
_____ No Recorded Data Available	Drift lines……>	
	Sediment deposits……>	
	Drainage patterns……>	
Field Observations:	Secondary Indicators:	
Depth of surface water:	Oxidized root channels in upper 12 inches……>	
Depth to free water in pit:	Water-stained leaves……>	
Depth to saturated soil: **> 24 in.**	Local soil survey data……>	
	FAC neutral test……>	
	Other (explain)	

Remarks: ***Wetland hydrology not present.***

SOILS

Map Unit Name:	***IdB***	Drainage Class:	***Mod. Well***
(Series and Phase):	***Iredell fsl***	Field Observations	
Taxonomy (subgroup):	***Typic hapludalfs***	Confirm Mapped Type?	

Profile Descriptions:

Depth	Horizon	Matrix Color	Mottle Color	Mottle Abundance	Texture
1-16"	**A**	**2.5YR 5/3**			**Loamy clay**

Hydric Soil Indicators:

Histosol……>		Concretions……>	
Histic epipedon……>		High organic content in the surface layer	
Sulfidic odor……>		of sandy soils……>	
Aquic moisture regime……>		Organic streaking in sandy soils……>	
Reducing conditions……>		Listed on local hydric soils list……>	
Gleyed or low chroma colors……>		Listed on national hydric soils list……>	
		Other (explain)	

Remarks: ***Hydric soils not present***

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	***No***	Is this sampling point within a wetland?
Wetland Hydrology Present?	***No***	***No***
Hydric Soils Present?	***No***	

Remarks: ***Upland C***