

PHASE I ENVIRONMENTAL SITE ASSESSMENT

FOR THE

**WILLIAMSBURG COOPERATIVE
COMMERCE CENTRE SOUTH**



**Williamsburg
County** TODAY'S
WORKPLACE

**LOCATED IN
WILLIAMSBURG COUNTY, SOUTH CAROLINA**

MARCH 2011

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COMMERCE CENTRE SOUTH**



**LOCATED IN
WILLIAMSBURG COUNTY, SOUTH CAROLINA**



Prepared By:
Alliance Consulting Engineers, Inc.
Post Office Box 8147
Columbia, South Carolina 29202-8147

Project No. 10140-45
MARCH 2011



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1.0 INTRODUCTION

This report is prepared for the use of Williamsburg County Development Corporation and presents the findings of a **Phase I Environmental Site Assessment (ESA)** for the three (3) parcels (Williamsburg County Tax Map Numbers 45-173-016, 45-174-129, and 45-174-132) which comprise the approximately 112-acre Williamsburg Cooperative Commerce Centre South, formerly known as the Epps No. 1 Industrial Park. The subject properties are located near the intersection of US Highway 52 (Williamsburg County Highway) and Commerce Drive, approximately two and one-half (2.5)-miles north of the Town of Kingstree, South Carolina. The referenced property is currently owned by the Williamsburg County Development Corporation. Mr. F. Hilton McGill, SCCED, Williamsburg County Development Corporation Executive Director, authorized and requested that Alliance Consulting Engineers, Inc. conduct a **Phase I ESA** for this site in conjunction with the renewal of the certification of the Williamsburg Cooperative Commerce Centre South through the South Carolina Department of Commerce Site Certification Program.

This assessment was performed in general conformance with the provisions set forth in the *American Society for Testing and Materials (ASTM) E-1527 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*. ASTM E-1527 defines a **Phase I ESA** as the process by which an entity seeks to determine if a particular parcel of commercial real estate is subject to *recognized environmental conditions*. In this ASTM Standard Practice, a *recognized environmental condition* is defined as the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material



threat of release of these substances or products into the ground, groundwater, or surface water of the property. The opinions, conclusions, and recommendations presented in this report are based on information obtained during the assessment, as well as from Alliance Consulting Engineers, Inc.'s prior experience. If additional information that might impact these environmental conclusions becomes available, it is requested that Alliance Consulting Engineers, Inc. be granted the opportunity to review the information and reassess any potential concerns.

The **Phase I ESA** is a general characterization of environmental concerns based on readily available information and site observations. In order to accomplish these stated objectives, the following engineering services were performed:

- A. An on-site investigation of the property to observe the site conditions relative to environmental concerns;
- B. A pedestrian and vehicular reconnaissance of the subject property and surrounding areas to determine if obvious adjacent land use might suggest potential environmental problems;
- C. A query of environmental records available from the South Carolina Department of Health and Environmental Control (SCDHEC) and the United States Environmental Protection Agency (USEPA);
- D. A review of select available documents to aid in assessing the historical and current uses of the site and surrounding properties;



- E. A brief, qualitative hydraulic evaluation of the site and vicinity to characterize the area drainage patterns.

This **Phase I Environmental Site Assessment** and its findings are limited to the site and its surrounding areas. No investigations or assessments of any existing buildings or structures were included within the scope of this **Phase I ESA**.



2.0 SITE DESCRIPTION

2.1 Location

A Vicinity Map, Site Location Map, Aerial Map, Topographic Map, Soils Map, Federal Emergency Management Agency (FEMA) Flood Map, and a National Wetlands Inventory (NWI) Map depicting the property are presented in **Exhibits A through G**, respectively. The Site Location Map is derived from the South Carolina Department of Transportation's (SCDOT) Highway Map of Williamsburg County dated 1968. The Aerial Map is derived from the South Carolina Department of Natural Resources (SCDNR) Digital Orthophoto Quarter-Quadrangles (DOQQ) Archive for Kingstree Northeast and Northwest, South Carolina dated 2006. The Topographic Map is derived from the United States Geological Survey's (USGS) Kingstree, South Carolina Quad Map dated 1990. The Soils Map was derived from the United States Department of Agriculture Natural Resources Conservation Service's (USDA-NRCS) Williamsburg County Soil Survey, Sheets 16, 17, 25, and 26, dated May 1989. The FEMA Flood Map was derived from the FEMA Flood Map Catalog, Panel Nos. 125 and 150, dated February 6, 1991. The NWI Map was obtained from the United States Fish and Wildlife Service Online Mapper. Various photographs of the subject property are presented in **Appendix A**.

The Williamsburg Cooperative Commerce Centre South is comprised of five (5) tracts of property which are bordered to the east by US Highway 52, to the north by open grassed areas consisting of developed and undeveloped industrial sites, to the west by the Kingstree Swamp Canal, and to the south by farmland (refer to Exhibits B through G for tract

PHASE I ESA FOR THE WILLIAMSBURG COOPERATIVE COMMERCE CENTRE SOUTH WILLIAMSBURG COUNTY, SOUTH CAROLINA VICINITY MAP

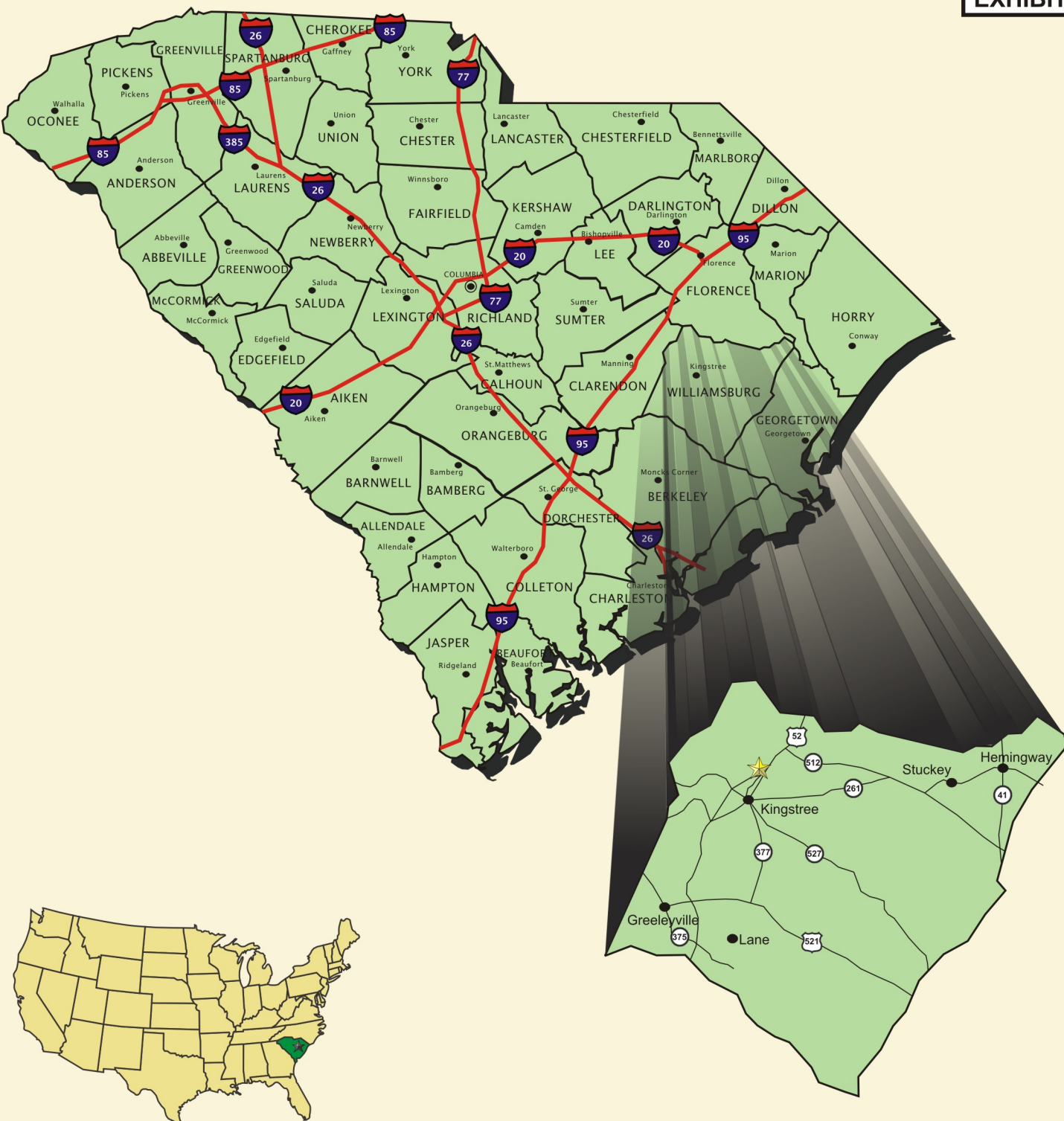


Williamsburg
County
TODAY'S
WORKPLACE

+/- 112 Acres

ALLIANCE
CONSULTING ENGINEERS
PREPARED BY:
ALLIANCE CONSULTING ENGINEERS, INC.
MARCH 14, 2011

EXHIBIT A

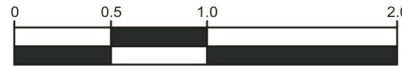


PHASE I ESA FOR THE WILLIAMSBURG COOPERATIVE COMMERCE CENTRE SOUTH WILLIAMSBURG COUNTY, SOUTH CAROLINA SITE LOCATION MAP

+/- 112 Acres



Williamsburg
County TODAY'S
WORKPLACE



SCALE IN MILES
MARCH 14, 2011



PREPARED BY:
ALLIANCE CONSULTING ENGINEERS, INC.
INFORMATION FROM:
WILLIAMSBURG COUNTY HIGHWAY MAP
DATED 2005

EXHIBIT B

SITE



LEGEND

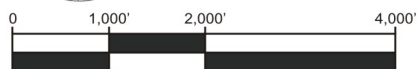
EPPS NO. 1 INDUSTRIAL SITE	+/- 73 ACRES
TRACT 8	+/- 9 ACRES
TRACT 9	+/- 10 ACRES
TRACT 10	+/- 9 ACRES
TRACT 13	+/- 10 ACRES

PHASE I ESA FOR THE
WILLIAMSBURG COOPERATIVE
COMMERCE CENTRE SOUTH
WILLIAMSBURG COUNTY, SOUTH CAROLINA
AERIAL MAP

+/- 112 Acres



Williamsburg
County
TODAY'S
WORKPLACE




GRAPHIC SCALE
MARCH 14, 2011

ALLIANCE
CONSULTING ENGINEERS
PREPARED BY:
ALLIANCE CONSULTING ENGINEERS, INC.
INFORMATION FROM:
SCDNR DDOO ARCHIVE
KINGSTREE NE & NW, SC
DATED 2006

EXHIBIT C

SITE

LEGEND

EPPS NO. 1 INDUSTRIAL SITE		+/- 73 ACRES
TRACT 8		+/- 9 ACRES
TRACT 9		+/- 10 ACRES
TRACT 10		+/- 9 ACRES
TRACT 13		+/- 10 ACRES

PHASE I ESA FOR THE WILLIAMSBURG COOPERATIVE COMMERCE CENTRE SOUTH WILLIAMSBURG COUNTY, SOUTH CAROLINA TOPOGRAPHIC MAP

+/- 112 Acres



Williamsburg
County
TODAY'S
WORKPLACE



GRAPHIC SCALE
CONTOUR INTERVAL 5 FEET
MARCH 14, 2011

ALLIANCE
CONSULTING ENGINEERS

PREPARED BY:
ALLIANCE CONSULTING ENGINEERS, INC.
INFORMATION FROM:
SCDNR, USGS QUAD MAP
KINGSTREE, SC 1900

EXHIBIT D

SITE

LEGEND

EPPS NO. 1
INDUSTRIAL SITE

+/- 73 ACRES

TRACT 8

+/- 9 ACRES

TRACT 9

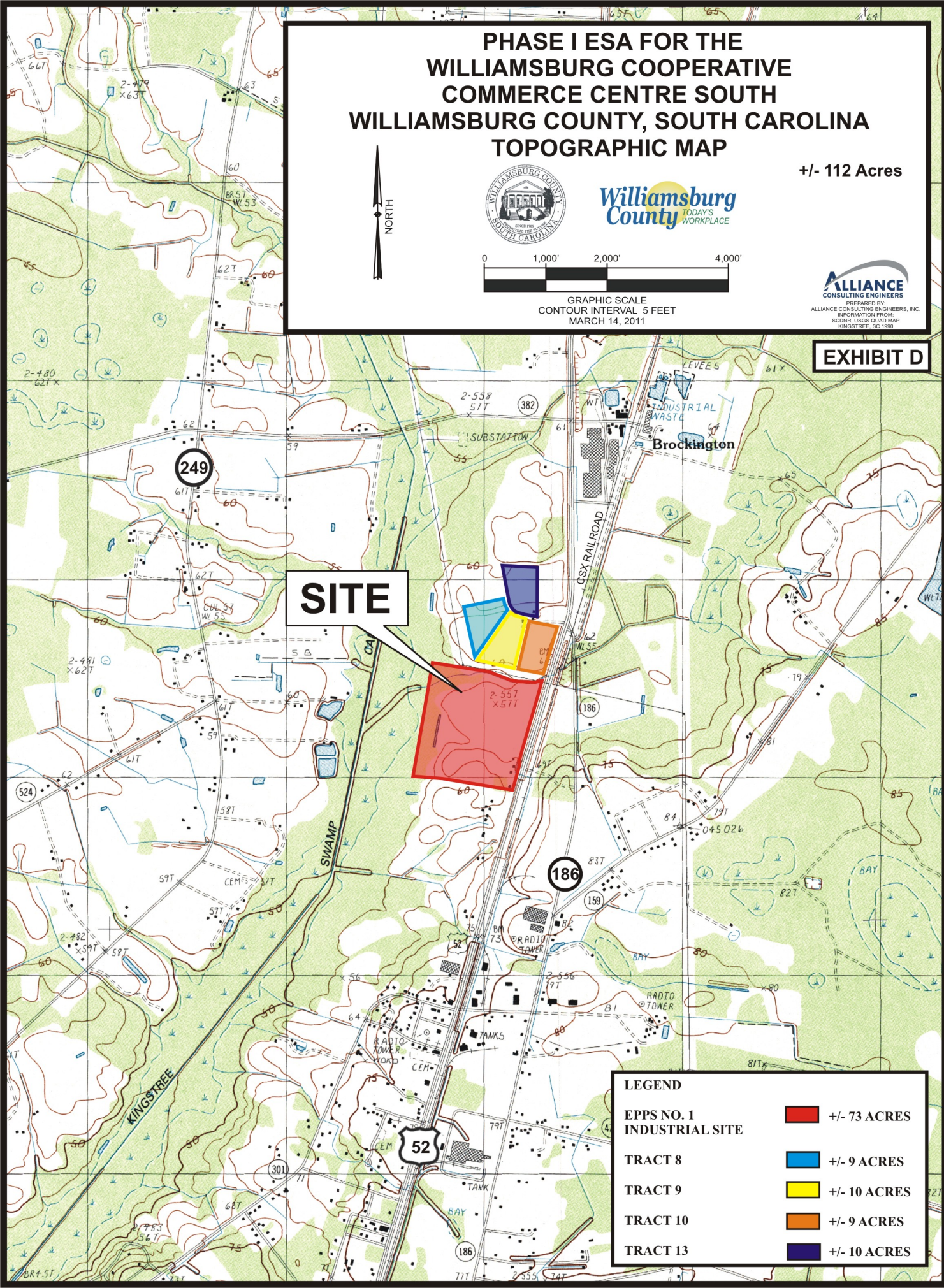
+/- 10 ACRES

TRACT 10

+/- 9 ACRES

TRACT 13

+/- 10 ACRES

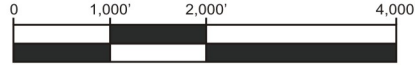


PHASE I ESA FOR THE WILLIAMSBURG COOPERATIVE COMMERCE CENTRE SOUTH WILLIAMSBURG COUNTY, SOUTH CAROLINA SOILS MAP



Williamsburg
County
TODAY'S
WORKPLACE

+/- 112 Acres



GRAPHIC SCALE
MARCH 14, 2011



PREPARED BY:
ALLIANCE CONSULTING ENGINEERS, INC.
INFORMATION FROM:
WILLIAMSBURG COUNTY SOILS SURVEY
SHEETS 16, 17, 25 & 26
DATED MAY 1989

EXHIBIT E

SITE

249

186

52

LEGEND

EPPS NO. 1 INDUSTRIAL SITE		+/- 73 ACRES
TRACT 8		+/- 9 ACRES
TRACT 9		+/- 10 ACRES
TRACT 10		+/- 9 ACRES
TRACT 13		+/- 10 ACRES

LEGEND

Autryville (AuA)
Coxville (Co)
Emporia (EmA)
Eunola (EuA)
Gourdin (Gu)
Hobcaw (Hb)
Leon (Le)
Yemassee (Ym)

HSG

A	
D	
C	
C	
C	
D	
B/D	
C	

PHASE I ESA FOR THE WILLIAMSBURG COOPERATIVE COMMERCE CENTRE SOUTH WILLIAMSBURG COUNTY, SOUTH CAROLINA FEMA MAP

+/- 112 Acres



Williamsburg
County
TODAY'S
WORKPLACE



GRAPHIC SCALE
MARCH 14, 2011



PREPARED BY:
ALLIANCE CONSULTING ENGINEERS, INC.
INFORMATION FROM:
FEMA FLOOD MAP CATALOG
PANEL NO. 125 & 150
DATED FEBRUARY 6, 1991

EXHIBIT F

SITE

ZONE X

524

249

186

186

301

52

301

Kingsree Swamp

ZONE X

301

LEGEND

EPPS NO. 1
INDUSTRIAL SITE

+/- 73 ACRES

TRACT 8

+/- 9 ACRES

TRACT 9

+/- 10 ACRES

TRACT 10

+/- 9 ACRES

TRACT 13

+/- 10 ACRES

LEGEND



ZONE A - Areas of 100-year flood



ZONE X - Areas of minimal flooding

PHASE I ESA FOR THE WILLIAMSBURG COOPERATIVE COMMERCE CENTRE SOUTH WILLIAMSBURG COUNTY, SOUTH CAROLINA NATIONAL WETLANDS INVENTORY (NWI) MAP



Williamsburg
County TODAY'S
WORKPLACE

+/- 112 Acres



GRAPHIC SCALE
MARCH 14, 2011



EXHIBIT G

SITE

WETLANDS LEGEND

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

LEGEND

EPPS NO. 1 INDUSTRIAL SITE	+/- 73 ACRES
TRACT 8	+/- 9 ACRES
TRACT 9	+/- 10 ACRES
TRACT 10	+/- 9 ACRES
TRACT 13	+/- 10 ACRES



identification). The Williamsburg County Development Corporation owns an available industrial facility located on Tract 9. Sykes Enterprises, Inc. and Embroidery Solutions, Inc. own and operate facilities adjacent to the subject properties, within the Williamsburg Cooperative Commerce Centre. Eleven (11) properties are located adjacent to the tracts which comprise the Williamsburg Cooperative Commerce Centre South. A detailed list of the adjacent property owners' information can be found below in **Table 1**.

TABLE 1 – ADJACENT PROPERTY OWNERS			
Tax Map No.	Acreage	Property Owner	Boundary Direction
45-174-095	136.3	Thomas M. Brown	South
45-174-104	7.8	Gretchen Belue	West
45-174-100	6.6	Ralph Dorrell	West
45-174-186	49.3	Ralph Dorrell	West
45-174-092	45.6	Wildlife Action Inc.	West
45-174-127	8.9	Kingstree Property	West
45-173-072	9.9	Williamsburg County Development Corporation	North
45-174-115	8.9	Kingstree Office One, LLC	East

2.2 Current Site Use

The Williamsburg Cooperative Commerce Centre South (Williamsburg County Tax Map Nos. 45-173-016, 45-174-129, and 45-174-132) consists primarily of cultivated farmland and open grassed spaces. An entrance road to serve potential industries extends from US Highway 52 westward into the Epps No. 1 Industrial Site and terminates in a cul-de-sac. Commerce Drive extends westward from US Highway 52 to serve the existing facilities located within the Williamsburg Cooperative Commerce Centre, and industries which may locate on Tracts 8, 9, 10, and 13 of the Williamsburg Cooperative Commerce Centre South. The Williamsburg County Development Corporation owns an available industrial facility located on Tract 9 of the Williamsburg Cooperative Commerce Centre



South. Drainage ditches and potential wetlands areas are present throughout the Williamsburg Cooperative Commerce Centre South properties, and the Kingtree Swamp Canal runs along the western boundary of the Epps No. 1 Industrial Site and Tract 8. The Town of Kingtree owns, operates, and maintains a wastewater pump station near the southern boundary of Tract 10 and the northern boundary of the Epps No. 1 Industrial Site.

2.3 Past Site Use and Ownership

Information gathered from reviews of Williamsburg County Tax Maps, recorded deeds and plats, and personal interviews indicates that the property was previously used for agricultural related activities. The reasonably ascertainable ownership history of the overall parcel known as Williamsburg County Tax Map Numbers 45-173-016, 45-174-129, and 45-174-132 are presented below.

Williamsburg County Tax Map Number 45-173-016 (187.61 Acres)

- | | |
|---------------------------|---|
| October 10, 1997: | Williamsburg County Development Corporation acquires the property from Frances B. Godwin. |
| December 31, 1992: | Frances B. Godwin acquires the property from Frances B. Godwin and Margret B. Culver. |
| August 26, 1988: | Frances B. Godwin and Margret B. Culver inherit the property from Irene E. Brockington. |

Williamsburg County Tax Map Number 45-174-129 (10.00 Acres)

- | | |
|--------------------------|--|
| October 26, 2007: | Williamsburg County Development Corporation acquires the property from CPT Investor Group, LLC |
|--------------------------|--|



Williamsburg County Tax Map Number 45-174-132 (73.22 Acres)

- December 29, 2008:** Williamsburg County Development Corporation acquires the property from Jane E. DeWitt
- June 10, 2003:** Jane E. DeWitt acquires the property from Frank A. Brown, Glenda B. Shuler, and Jane E. DeWitt.
- Unknown Date:** Jane E. DeWitt, Frank A. Brown, and Glenda B. Shuler inherit the property from D. S. Epps and Conyers M. Epps.

2.4 Current Surrounding Land Use

The Williamsburg Cooperative Commerce Centre South is bound to the south by farm land, to the east by US Highway 52 (Williamsburg County Highway), to the north by open grassed areas, and to the east by the Kingtree Swamp Canal. Sykes Enterprises, Inc. and Embroidery Solutions, Inc. own, operate, and maintain facilities located within the Williamsburg Cooperative Commerce Centre, adjacent to Tracts 8, 9, 10, and 13.

2.5 Past Surrounding Land Use

Information gathered from reviews of Williamsburg County Tax Maps, recorded deeds and plats, and questionnaires suggests that prior to the usages described in **Section 2.4**, the surrounding lands were previously used as farmlands and industrial facilities.

2.6 Drainage

Surface and subsurface drainage is often of interest during an environmental assessment because it provides an indication of the direction in which contaminants could potentially be transported by surface waters or groundwater. A USGS Topographic Map was used to characterize suspected drainage patterns as well as a pedestrian reconnaissance of the subject properties. Based upon a review of Williamsburg County's FEMA Flood Map, it



appears that the Williamsburg Cooperative Commerce Centre South is located in Zone X, which designates areas of minimal flooding. A review of the United States Department of the Interior's NWI Map reveals numerous potential wetland areas, primarily located along the western boundary of the subject properties. Potential wetland areas are also present on the central portion of Tracts 8 and 13 of the Williamsburg Cooperative Commerce Centre South.

The Williamsburg Cooperative Commerce Centre South is comprised of mild to negligible slopes. It appears that the Epps No. 1 Industrial Site generally drains radially from higher elevations on the eastern portion of the property near US Highway 52 to the west and north towards jurisdictional wetlands and the Kingtree Swamp Canal. Tracts 9 and 10 generally drain from the north of the tracts near Commerce Drive southward to jurisdictional wetlands along the southern boundary. Tract 13 drains radially from higher elevations on the central portion of the property towards the north and south into potential jurisdictional wetlands near the northern and southern boundaries of the tract. Tract 8 generally drains from the northeastern portion of the property to the southwest towards the Kingtree Swamp Canal. Stormwater flows are collected into the Kingtree Swamp Canal and discharged off-site.

The precise direction of groundwater flow is a parameter that is not always easily discernible for a particular site and is beyond the scope of this assessment effort. However, based on the general topography of the properties it is believed that the groundwater will primarily flow westward on the Epps No. 1 Industrial Site and Tract 8, towards the north and



south on Tract 13, and southward on Tracts 9 and 10. Ultimately all stormwater flows are discharged off-site into the Kingstree Swamp Canal.

3.0 REGULATORY RECORDS REVIEW

A primary purpose of this **Phase I ESA** was to perform a sufficient assessment to identify any obvious, actual, and potential sources of contamination that might be associated with the property in question. Information related to the past and present use of the property is of extreme interest in assessing its environmental condition. Recognition of the manner in which human activities have affected a tract of land is vital in evaluating the impact that these activities may have had on the property and the environment.

Alliance Consulting Engineers, Inc. utilized the services of its sub-consultant, Environmental Data Management, Inc., to query the environmental regulatory lists available through the USEPA and the SCDHEC for any regulated sites within the recognized ASTM search radius. This environmental data report is presented in its entirety as **Appendix B**.

The following USEPA regulatory lists were reviewed using the indicated standard ASTM search radii:

- National Priorities List (NPL) - [1.0 mile]
- Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) - [0.5 mile]
- Archived Cerclis Sites (NFRAP) – [0.5 miles]
- Emergency Response Notification System List (ERNS) - [0.25 mile]
- Resource Conservation and Recovery Information System (RCRIS) Handlers With Corrective Action (CORRACTS) - [1.0 mile]
- Resource Conservation and Recovery Act (RCRA) Treatment, Storage, and/or Disposal Sites (TSD) - [1.0 mile]
- RCRA LQG, SQG, CESQG, and Transporters (NONTSD) – [0.25 mile]
- Tribal Tanks List (TRIBLTANKS) – [0.25 mile]
- Tribal Lust List (TRIBLLUST) – [0.50 mile]
- Brownfields Management System – [USBRWNFLDS 0.5 mile]



Additionally, the following SCDHEC regulatory lists were reviewed using the indicated standard ASTM search radii:

- South Carolina State Priority List Sites (STNPL) - [1.0 mile]
- South Carolina Solid Waste Facilities List (SLDWST) - [0.5 mile]
- South Carolina Leaking Underground Storage Tanks List (LUST) - [0.5 mile]
- South Carolina Underground/Aboveground Storage Tanks (TANKS) - [0.25 mile]
- South Carolina State Dry Cleaners List (DRY) - [0.50 mile]
- South Carolina State Designated Brownfields (BRWNFLDS) – [0.50 mile]
- South Carolina State Voluntary Cleanup List (VOLCLNUP) – [0.50 mile]
- South Carolina State Spills List (SPILLS) – [0.25 mile]

Also the following supplemental database lists were reviewed using the indicated standard ASTM search radii:

- Record of Decisions System (RODS) - [1.0 mile]
- RCRA Administrative Action Tracking System (RAATS) - [1.0 mile]
- Biennial Reporting System (BRS) - [0.25 mile]
- PCB Activity Data System (PADS) - [0.25 mile]
- Permit Compliance System (PCS) - [0.25 mile]
- Facility Registry System (FRS) – [0.25 mile]
- Toxic Release Inventory System (TRIS) – [0.25 mile]

Four (4) facilities were identified within the standard ASTM search radii of the subject property. This facility is presented in **Table 2**.

TABLE 2 – SITES WITHIN STANDARD ASTM RADIUS			
SITE OR FACILITY	DISTANCE (mi)*	DIRECTIO N	LISTING
ARC Technology LLC	0.5	NE	FRS, SLDWST
Williamsburg County Industrial Landfill	0.6	SE	CERCLIS, STNPL
Travenol Laboratories, Inc./Allegiance Healthcare Corp.	1.0	NE	LUST, SLDWST, TSD
Fermpro Manufacturing LP	1.1	NE	TSD

** Distances are measured radially from the centroid of the property boundary*

- Items in bold possess potential RECs and require cross reference of EDM Report



The proximal portion of the mapped sites of the environmental data report lists facilities and sites that appear outside of the study area, but are in close proximity to the research boundary. These sites are not included in the standard ASTM radii, but fall into the following categories:

1. The location of the site occurs close to the research boundary;
2. The property boundary of the site may be large enough that the physical address may be outside of the study area, but the property boundary may extend into the study area;
3. The address data, derived from the United States Census Bureau, does not always contain the most accurate address information. Therefore, the proximal portion of these results includes the addresses in close proximity to the ASTM search radii.

A review of these criteria indicates that there are seven (7) sites that fall within these proximal results. These facilities are included in **Table 3**.

TABLE 3 – PROXIMAL SITES	
SITE OR FACILITY	LISTING
Palmetto Synthetics LLC	FRS
Exchange Bank PPS Property	FRS
Williamsburg County Industrial	FRS
Williamsburg County Public Works	LUST
Baxter Healthcare Corporation	FRS, BRS, NONTSD
Travenol Laboratories, Inc.	FRS, TANKS
International Biosynthetics	SLDWST, ERNS

There are also seventeen (17) non-mapped sites that may exist within the study area but lack the needed address information for mapping. Many of these sites contain the same zip code as the subject site or do not have zip code or address data available. **Table 4** contains these sites.

TABLE 4 – NON-MAPPED SITES	
SITE OR FACILITY	LISTING
M A Hannah Rubber Compounding	FRS, ERNS



Colonial Rubber Works, Inc.	FRS, NONTSD, TANKS
Boots Pharmaceuticals, Inc.	FRS
Agrico Chemical Company	FRS
Santee Electric Cooperative	FRS
Tri-Cot Cotton Gin	ERNS
Mabe's Spill Site	SPILLS
Williamsburg Grain Company	FRS
Carolina Corn Processors	TANKS, LUST, FRS
Trulucks Service Center	FRS, TANKS
American Bakeries Co.	TANKS, LUST, FRS
Ibis Limited Partnership	FRS
Baxter Healthcare	FRS
Priscilla Dorsey Day Care	FRS
Cumbee Auto Mall	TANKS, FRS
Borden Chemical Smith-Douglass	FRS
Bordon Chemical	NONTSD

It should be noted that regulatory listings and regulatory agency files are often limited. The regulatory listings include only those sites that are known to regulatory agencies, at the time of publication, to practice operations which require licensing or permitting, or those sites known to be contaminated or possess a potential for contamination as a result of the generation and/or handling of hazardous materials and/or petroleum products.

Based on a review of the summaries associated with each site, and the general topography of the Williamsburg Cooperative Commerce Centre South and surrounding areas, it is unlikely that chemical contaminants have adversely impacted the Industrial Park. Accordingly, these sites are not considered ***Recognized Environmental Conditions (RECs)***.



4.0 SITE RECONNAISSANCE AND INTERVIEW INFORMATION

Mr. Garrett Wine, E.I.T. of Alliance Consulting Engineers, Inc. toured the property on February 24, 2011, and revisited the property on March 21, 2011. On-site conditions or items that were observed are depicted in **Table 5**.

TABLE 5 - OBSERVED ON-SITE CONDITIONS OR ITEMS		
On-Site Conditions or Items	Observed	If yes, describe
a. above ground storage tanks	No	
b. underground storage tanks	No	
c. pipelines	Yes	Eight (8)-inch water line and gravity wastewater line on Epps No. 1 Industrial Site, twelve (12)-inch water line and ten (10)-inch gravity wastewater line extending along Commerce Drive to serve the wastewater pump station near boundary of Tract 10, twelve (12)-inch wastewater force main exiting the pump station and extending south along US Highway 301
d. damaged/leaking transformers	No	
e. surface impoundment/holding ponds	Yes	Kingstree Swamp Canal adjacent to western property boundary
f. monitoring wells	No	
g. remedial cleanup activity	No	
h. landfill/burial activity	No	
i. chemical spills or releases	No	
j. gas/oily sheens on water (excluding parking lot ponding)	No	
k. chemical/petroleum odors	No	
l. stained or discolored soil	No	
m. distressed/discolored vegetation (chemically impacted)	No	
n. dumping	Yes	Remnants of previous structure, roadside debris, scrap metal, and concrete block
o. stored substances/drums/containers/vats	No	
p. spray rigs/tankers/mobile storage tanks	No	
q. sprayed on structural fire proofing	N/A	
r. sprayed on acoustical/textured ceilings	N/A	



s.	damaged thermal insulation	N/A	
t.	marshes/low lying wetlands	Yes	Kingstree Swamp Canal near western property boundaries, potential wetlands areas throughout Industrial Park
u.	air emission facilities	No	

While on site, Mr. Wine did not observe any electrical transformers which appeared to be leaking. An overhead power line owned and operated by Progress Energy is located along the northern boundary of the Epps No. 1 Industrial Site which appeared to be in good condition. No storm drainage inlets, outlets, or ditches that had distressed vegetation, gas, or oily sheens in or around them were observed. Tree debris was observed in the roadside ditch located along the eastern boundary of the Epps No. 1 Industrial Site and adjacent to the western edge of US Highway 52 (Williamsburg County Highway). A concrete pad was observed on the southeastern portion of the Epps No. 1 Industrial Site. Remnants of a structure were observed on the property south of the Epps No. 1 Industrial Site. Debris from the degraded structure included lumber, scrap metal, and a concrete block foundation. A debris pile was observed on the southeastern portion of the Epps No. 1 Industrial Site which included but was not limited to scrap metal, concrete block, tree debris, and bricks. No distressed or discolored vegetation was observed near the concrete pad, the degraded structure, or near the debris pile, and none of these items are considered ***Recognized Environmental Conditions (RECs)***.

A paved entrance roadway extends west from US Highway 52 to serve potential industries locating on the Epps No. 1 Industrial Site. The two (2)-lane roadway with concrete curb terminates in a cul-de-sac on the central portion of the tract. No storm drainage inlets were observed along the entrance roadway. An eight (8)-inch water main



extends west along the southern edge of the entrance roadway and terminates at the cul-de-sac. Numerous manholes associated with a gravity wastewater line were observed near the northern boundary of the Epps No. 1 Industrial Site. All fire hydrant assemblies and wastewater manholes observed appeared to be in good condition. Commerce Drive is a two (2)-lane roadway with concrete curb and gutter which extends west from US Highway 52 and creates a loop to serve the existing facilities in the Williamsburg Cooperative Commerce Centre, and potential industries which may locate on Tracts 8, 9, 10, and 13 of the Williamsburg Cooperative Commerce Centre South. A twelve (12)-inch water line and a ten (10)-inch gravity wastewater line extend along Commerce Drive. The gravity wastewater line connects to a wastewater pump station located near the southern boundary of Tract 10 which is owned, operated, and maintained by the Town of Kingtree. The fire hydrants, wastewater manholes, and the wastewater pump station observed appear to be in good working condition, and do not pose any environmental concerns.

Numerous potential wetlands and water bodies were observed near the boundaries of the properties which comprise the Williamsburg Cooperative Commerce Centre South. The Kingtree Swamp Canal runs along the western boundary of the Epps No. 1 Industrial Site and Tract 8. Water did not appear to be flowing in the Kingtree Swamp Canal adjacent to the Epps No. 1 Industrial Site, and a layer of algae was growing on the surface of the water. Farmland with livestock borders the Epps No. 1 Industrial Site, and a drainage ditch defines much of the southern boundary of the tract. A drainage pipe extending north from the farmland to the ditch, and a drainage swale extending south from the entrance roadway were also observed on the Epps No. 1 Industrial Site. Water near the pipe outlet gave off a foul



odor, but no gas or oily sheens were observed in the water flowing in the ditch along the southern boundary. The potential for the over application of fertilizers and pesticides on the farmland south of the Epps No. 1 Industrial Site are an environmental concern; however, no distressed or discolored vegetation was observed during the reconnaissance. Based on this information, the current and historical uses of the farmland south of the Williamsburg Cooperative Commerce Centre South are not considered a **REC**.

A wetland defining the northern boundary of the Epps No. 1 Industrial Site extends beneath US Highway 52. Debris including wood debris, empty drinking containers, and various roadside debris was observed in the wetland area. Water flowing in the wetland had algae growing on the surface and had a murky color; however, no gas or oily sheens were observed. Potential wetland areas were also observed on Tracts 8, 9, 10, and 13. All water bodies observed near these tracts had algae growth, but did not exhibit gas or oily sheens. Accordingly, none of the water bodies and potential wetland areas observed during the reconnaissance are considered **RECs**.

Remnants of a degraded structure were observed in the wooded area near the southern boundary of Tract 13. Debris included but was not limited to scrap metal, lumber, a small amount of household debris, and a concrete block foundation. No distressed or discolored vegetation was observed near the structure remains. It is recommended that this debris be removed from the property prior to development of Tract 13.

An available industrial facility owned by the Williamsburg County Development Corporation is located on Tract 9 of the Williamsburg Cooperative Commerce Centre South.



The industrial facility appears to be in good condition, and no adverse environmental impacts associated with the facility were apparent during the site reconnaissance.

Sykes Enterprises, Inc., a multinational corporation which provides business process outsourcing services headquartered in Tampa, Florida, owns, operates, and maintains a facility located adjacent to Tract 13 of the Williamsburg Cooperative Commerce Centre South. Embroidery Solutions, Inc., an embroidery, screen-printing, and digital printing company headquartered in Orlando, Florida, owns, operates, and maintains a production facility adjacent to Tracts 8 and 13. The Sykes Enterprises and Embroidery Solutions facilities appeared to pose no environmental concerns, and the facilities are not considered *RECs*.

On March 21, 2011, Mr. F. Hilton McGill, Jr., SCCED, representing the owner of the property, indicated that to the best of his knowledge and belief there were currently no known and/or have not been any environmental liens or governmental notifications relating to environmental laws; nor any past, threatened, or pending lawsuits or administrative proceedings concerning a release or threatened release of a hazardous substance on the property. Mr. Beasley did not have any additional knowledge of any hazardous substances, petroleum products, unidentified waste materials, tires, automotive or industrial batteries, or other waste materials being dumped above grade, buried, and/or burned on the property. This correspondence is included in **Appendix C**.



5.0 FINDINGS, CONCLUSIONS, AND RECOMMENDATIONS

This report, prepared for the use of Williamsburg County Development Corporation, presents the findings of a **Phase I Environmental Site Assessment (ESA)** for the approximately 112-acre Williamsburg Cooperative Commerce Centre South. This Phase I ESA was completed in general conformance with the provisions set forth in the *American Society for Testing and Materials (ASTM) E-1527 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* as a non-invasive study of obvious on-site or off-site sources of significant environmental concern. During this ESA, specific physical evidence or documentation of *recognized environmental conditions* at the property were investigated.

A query of environmental regulatory lists available through the USEPA and the SCDHEC revealed that four (4) sites were identified within the standard ASTM search radii, seven (7) sites that meet the proximal criteria, and seventeen (17) non-mapped sites were identified in the vicinity of the Williamsburg Cooperative Commerce Centre South. These facilities are not considered *recognized environmental conditions* with regards to the subject property.

During the site investigation no *recognized environmental conditions* were identified on the Williamsburg Cooperative Commerce Centre South. The water bodies and potential wetland areas observed during the reconnaissance did not exhibit gas or oily sheens. All infrastructure pipe lines appeared to be in good condition, and no discolored or distressed vegetation was observed during the site evaluation. It is recommended that the debris pile containing remnants from the degraded structure located near the southern boundary of Tract



13 be removed prior to development of the tract. The potential for the over application of fertilizers and pesticides on the farmland south of the Epps No. 1 Industrial Site is a potential environmental concern; however, no indication that the application of these chemicals has adversely impacted the subject property was noted during the reconnaissance. No additional environmental assessments are recommended at this time.



6.0 LIMITATIONS OF LIABILITY

As indicated in **ASTM E1527**, the practice of completing a **Phase I ESA** is intended to constitute *all appropriate inquiries* to permit the User to satisfy one requirement to qualify for *Landowner Liability Protections* including the innocent landowner, contiguous property owner, or bona fide prospective purchaser limitations on Comprehensive Environmental Response Compensation Liability Act (CERCLA) liability in an approach that is both commercially prudent and reasonable. As such, **ASTM E1527** seeks to reduce, but not eliminate, uncertainty regarding the potential for *recognized environmental conditions* in connection with the property. Further, *appropriate inquiry* does not imply an exhaustive assessment of real property, but instead calls for the environmental professional to identify a balance between competing demands of limited cost and time and the reduction of uncertainty about unknown conditions.

It is important to note that the ability to complete the services involved with the review of public records and maps as well as the ability to conduct interviews with appropriate individuals is highly dependent upon the duration of the project schedule. In some instances, there is a need to review further information or interview other individuals that cannot be obtained within the duration of the project schedule. At the discretion of the User, the report can be finalized without the benefit of the additional information or the project duration can be extended to allow for further review. **ASTM E1527** states that information is reasonably ascertainable if it can be provided for review within twenty (20) days of the request.



7.0 STATEMENT OF QUALIFICATIONS

Alliance Consulting Engineers, Inc. is a South Carolina based consulting engineering firm engaged in the practice of civil, structural, and environmental engineering. The firm was founded in 2004, and its offices are located in Columbia, South Carolina. The staff of Alliance Consulting Engineers, Inc. currently consists of one (1) principal, three (3) senior project managers, two (2) project managers, two (2) project engineers, ten (10) engineering associates, two (2) CAD technicians, one (1) special projects consultant, one (1) local government liaison, and three (3) administrative assistants. Alliance Consulting Engineers, Inc.'s staff includes eight (8) registered Professional Engineers, two (2) LEED accredited professionals, one (1) LEED Green Associate, and the firm is properly licensed to practice engineering in South Carolina and seven (7) other states.

The firm is regularly involved in performing engineering services for municipal, industrial, institutional, and commercial clients on projects that span the breadth of the civil, structural, and environmental engineering disciplines. Environmental work regularly performed by the firm includes Potable Water Facilities, Wastewater Facilities, Stormwater Facilities, Environmental Site Assessments, Air Quality Permitting, and Solid Waste Management. The firm has performed numerous Environmental Site Assessments. A resume of the Senior Project Manager associated with this assessment is presented in **Appendix D.**

APPENDIX A
PHOTOGRAPHS

PHASE I ESA FOR THE WILLIAMSBURG COOPERATIVE COMMERCE CENTRE SOUTH WILLIAMSBURG COUNTY, SOUTH CAROLINA PHOTO KEY MAP

+/- 112 Acres



Williamsburg
County
TODAY'S
WORKPLACE



GRAPHIC SCALE
MARCH 14, 2011

ALLIANCE
CONSULTING ENGINEERS
PREPARED BY:
ALLIANCE CONSULTING ENGINEERS, INC.
INFORMATION FROM:
SCDNR, DOQQ ARCHIVE
KINGSTREE NE & NW, SC
DATED 2008

SITE

CSX RAILROAD

186

52

LEGEND

POSITION / DIRECTION
OF PHOTO



LEGEND

EPPS NO. 1 INDUSTRIAL SITE		+/- 73 ACRES
TRACT 8		+/- 9 ACRES
TRACT 9		+/- 10 ACRES
TRACT 10		+/- 9 ACRES
TRACT 13		+/- 10 ACRES



Photograph 1 – Looking northwest across the Epps No. 1 Industrial Site of the Williamsburg Cooperative Commerce Centre South



Photograph 2 – Looking at Kingtree Swamp Canal adjacent to the western boundary of the Epps No. 1 Industrial Site



Photograph 3 – Looking at wetlands along the western boundary of the Epps No. 1 Industrial Site



Photograph 4 – Water ponding in the wetlands along the western boundary of the Epps No. 1 Industrial Site



Photograph 5 – Existing ditch along the southern boundary of the Epps No. 1 Industrial Site



Photograph 6 – Drainage swale extending south from the cul-de-sac on the Epps No. 1 Industrial Site



Photograph 7 – Drainage pipe discharging from the farm land adjacent to the southern boundary of the Epps No. 1 Industrial Site



Photograph 8 – Looking at water in the drainage ditch along the southern boundary of the Epps No. 1 Industrial Site



Photograph 9 – Farm land and livestock on the property south of the Epps No. 1 Industrial Site



Photograph 10 – Concrete pad located near the southeastern corner of the Epps No. 1 Industrial Site



Photograph 11 – Looking at a telephone pedestal along US Highway 52



Photograph 12 – Debris from a collapsed structure located in the woods adjacent to the southern boundary of the Epps No. 1 Industrial Site



Photograph 13 – Foundation of a collapsed structure adjacent to the Epps No. 1 Industrial Site



Photograph 14 – Concrete blocks, scrap metal, and yard debris on the southeastern portion of the Epps No. 1 Industrial Site



Photograph 15 – Storm drainage culvert extending beneath the roadway serving the Epps No. 1 Industrial Site



Photograph 16 – Looking north along US Highway 52 near the entrance to the Epps No. 1 Industrial Site



Photograph 17 – Looking south along US Highway 52 near the entrance to the Epps No. 1 Industrial Site



Photograph 18 – Entrance to the Epps No. 1 Industrial Site



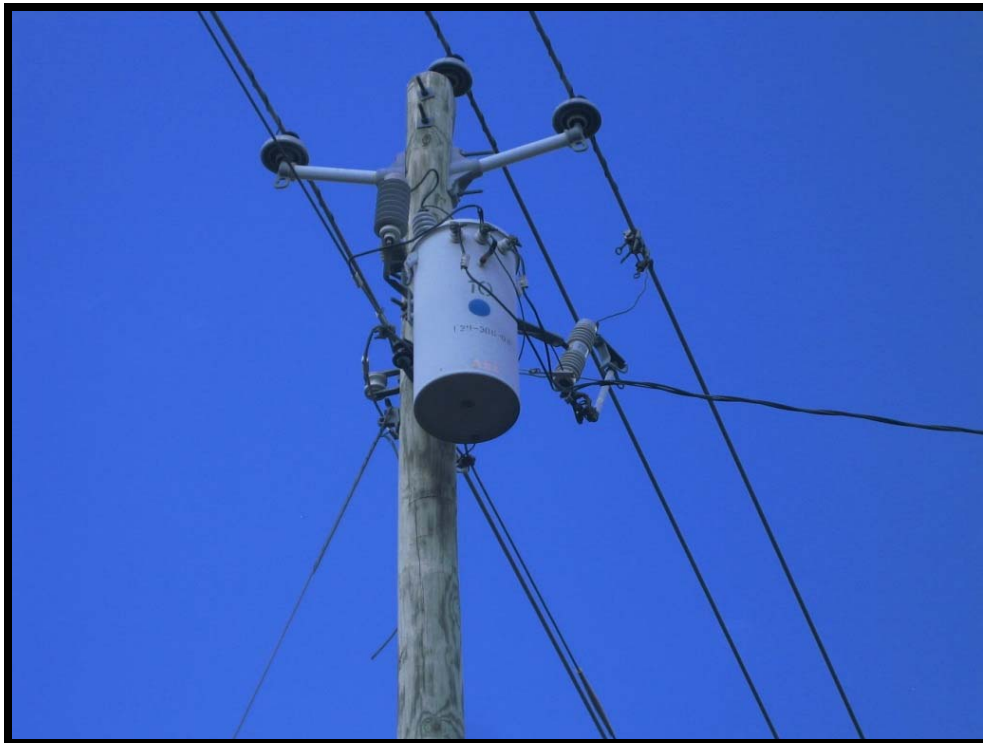
Photograph 19 – Williamsburg Cooperative Commerce Centre South entrance sign



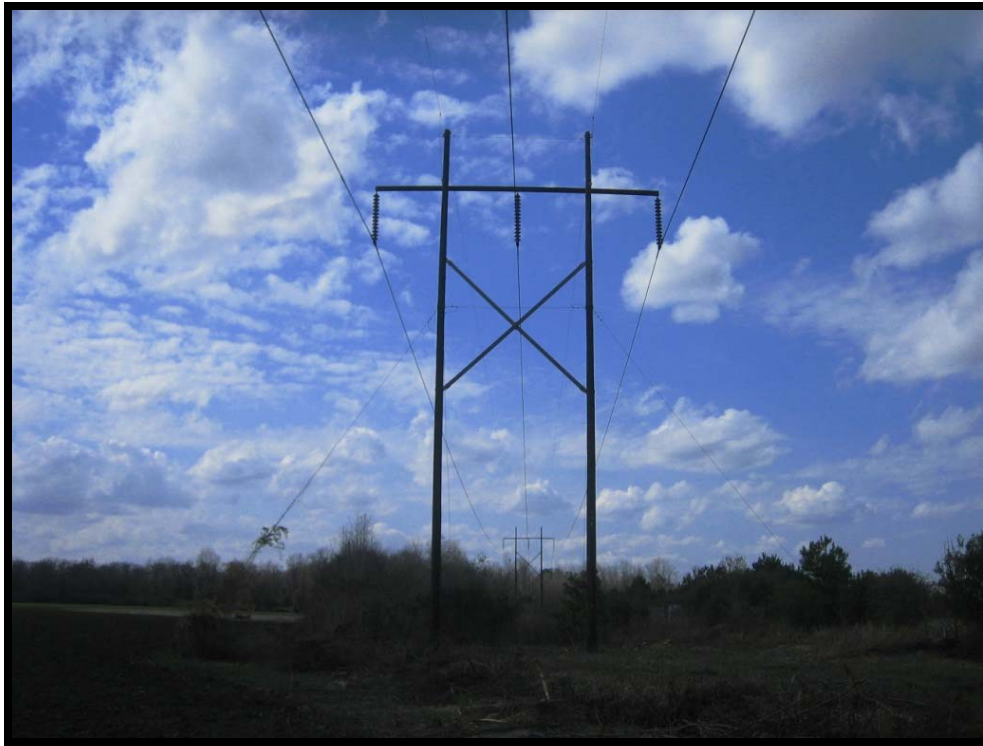
Photograph 20 – Looking north across the Epps No. 1 Industrial Site from the entrance roadway



Photograph 21 – Looking at tree debris in the ditch along US Highway 52



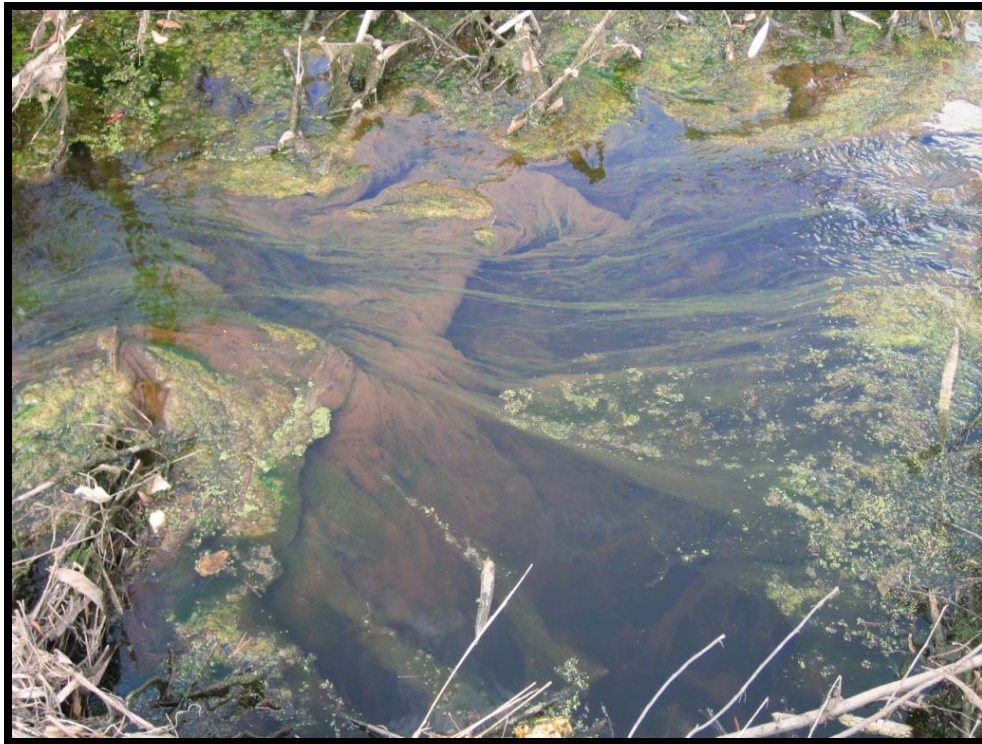
Photograph 22 – Mounted electric transformer (not leaking)



Photograph 23 – Progress Energy overhead power line along the northern boundary of the Epps No. 1 Industrial Site



Photograph 24 – Wetland area near the northeastern corner of the Epps No. 1 Industrial Site



Photograph 25 – Water flowing in the wetland near the northeastern corner of the Epps No. 1 Industrial Site



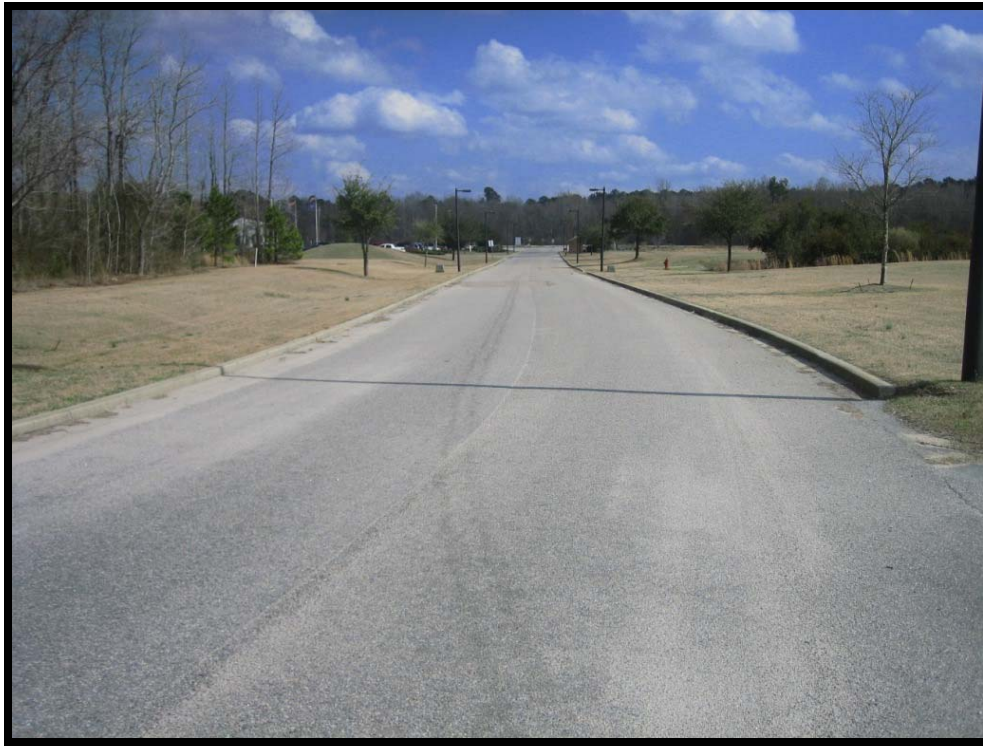
Photograph 26 – Wastewater manhole on the northern portion of the Epps No. 1 Industrial Site



Photograph 27 – Looking east towards US Highway 52 along the entrance roadway to the Epps No. 1 Industrial Site



Photograph 28 – Existing available industrial facility located on Tract 9



Photograph 29 – Looking east towards US Highway 52 along Commerce Drive



Photograph 30 – Utility boxes located adjacent to Commerce Drive



Photograph 31 – Looking north across Tract 13



Photograph 32 – Looking at remnants of a structure in the woods on the southern portion of Tract 13



Photograph 33 – Looking at concrete block and scrap metal remnants from a destroyed structure on the southern portion of Tract 13



Photograph 34 – Stand pipe adjacent to Tract 13



Photograph 35 – Looking north along a drainage swale near the eastern boundry of Tract 13



Photograph 36 – Looking at the Sykes Enterprises, Inc. facility adjacent to the eastern edge of Tract 13



Photograph 37 – Looking at water in the drainage ditch adjacent to the northern boundary of Tract 13



Photograph 38 – Looking northwest at the Embroidery Solutions, Inc. facility



Photograph 39 – Utility boxes located near the Embroidery Solutions Inc. facility



Photograph 40 – Electrical conduit adjacent to Commerce Drive



Photograph 41 – Looking southwest across Tract 8



Photograph 42 – Looking at the Kingtree Swamp Canal adjacent to the western boundary of Tract 8



Photograph 43 – Looking south at the Kingtree Swamp Canal near the southeastern corner of Tract 8



Photograph 44 – Looking northeast across Tract 8



Photograph 45 – Looking at a drainage ditch along the western boundary of Tract 10



Photograph 46 – Looking south along the service drive extending to the Town of Kingstree pump station site



Photograph 47 – Looking at the Town of Kingstree pump station near the southern boundary of Tract 10



Photograph 48 – Looking north across Tract 10



Photograph 49 – Looking at the wetland area adjacent to the southern boundary of Tract 10



Photograph 50 – Fire hydrant located adjacent to US Highway 52, near the eastern boundary of Tract 10



Photograph 51 – Looking at the main entrance sign to the Williamsburg Cooperative Commerce Center along Commerce Drive



Photograph 52 – Looking north at the intersection of US Highway 52 and Commerce Drive



Photograph 53 – Looking south across Tract



Photograph 54 – Manhole located on the central portion of Tract 9, behind the available industrial facility



Photograph 55 – Storm drainage outlet near the southern boundary of Tract 9



Photograph 56 – Rebar supports to assist tree growth on the southern portion of Tract
9

APPENDIX B
ENVIRONMENTAL DATA REPORT

ENVIRONMENTAL DATA REPORT

Comprehensive ASTM Research

Williamsburg County Tax Map Number 45-174-132
Epps No. 1 Industrial Park
Williamsburg County, South Carolina

Prepared For:

Alliance Consulting Engineers, Inc
PO Box 8147
Columbia, SC 29202

Prepared By:

ENVIRONMENTAL DATA MANAGEMENT, INC.
2840 West Bay Drive, Suite 208
Largo, Florida 33770

February 17, 2011

February 17, 2011

Garrett Wine
Alliance Consulting Engineers, Inc
PO Box 8147
Columbia, SC 29202

Subject: **Comprehensive ASTM Research - EDM Project #20828**

Dear Mr. Wine

Thank you for using Environmental Data Management, Inc. The following report provides the results of our environmental data research that you requested for the following location:

Williamsburg County Tax Map Number 45-174-132
Epps No. 1 Industrial Park
Williamsburg County, South Carolina

The following is a summary of the components contained within this report:

- **Executive Summary** –lists the databases that were searched for this report, the search distance criteria and the number of sites identified for each database.
- **Map of Study Area**– street map showing the location of the Subject Property and any regulatory listed sites identified within the search criteria (*a non-mapped option is available*).
- **Site Summary Table** –displays corresponding sites' Map ID numbers, Permit or Registration numbers, Name/Address and the Government Database(s) on which the site was listed.
- **Detail Reports** – data detail for each record identified.
- **Proximal Records Table** – a listing of potentially relevant sites identified just beyond the search criteria.
- **Non-Mapped Records Table** - lists those government records that do not contain sufficient address information to plot within our GIS system, but may still exist within your study area.
- **Agency List Descriptions** – defines the regulatory databases included in this report along with the dates that each database was last updated by the respective agency and EDM.
- **Physical Setting** – includes USGS Contour or Topographic map and a map of statewide American Indian Lands. Recent Aerial Photo, FEMA Flood Map and NWI Wetland Map included with Comprehensive Report. Water Well locations and detail well reports are included where this information is available.

At EDM we take great pride in our work, and continually strive to provide you with the most accurate and thorough research service available. We accomplish this by manually screening and researching your study area to identify and accurately locate any sites of environmental concern. This manual effort may add more time and effort to your report preparation, but we think a more thorough and accurate result is worth it.

Thank you again for selecting EDM as your data research provider. Should you have any questions regarding this report or our service, please feel free to contact us. We appreciate the opportunity to be of service to you and look forward to working with you in the future.

ENVIRONMENTAL DATA MANAGEMENT, INC.

Executive Summary

Report Date: 2/17/2011

Client Information	Project Information
Alliance Consulting Engineers, Inc PO Box 8147 Columbia SC 29202 Client Job No: Client P.O. No:	Comprehensive ASTM Research Williamsburg County Tax Map Number 45-174-132 Epps No. 1 Industrial Park Williamsburg County, South Carolina EDM Job No# 20828

The following table displays the databases that were included in the research provided, the respective search distance for each database, and the number of records identified for each database. The absence of records in this table and the Site Summary Table indicates that no sites were found within the specified research area.

	Search Radius (Miles)	From 0 - .13 mi	From .13 - .25 mi	From .26 - .5 mi	From .51 - 1.0 mi	Greater than 1 Mile	Totals
EPA DATABASES							
National Priorities List(NPL)	1.00	0	0	0	0	N/A	0
Comprehensive Env Response, Compensation & Liability Information System List(CERCLIS)	0.50	0	0	0	1	N/A	1
Archived Cerclis Sites(NFRAP)	0.50	0	0	0	N/A	N/A	0
Emergency Response Notification System List(ERNS)	0.25	0	0	N/A	N/A	N/A	0
RCRIS Handlers with Corrective Action(CORRACTS)	1.00	0	0	0	0	N/A	0
RCRA-Treatment, Storage and/or Disposal Sites(TSD)	1.00	0	0	0	1	1	2
RCRA-LQG,SQG,CESQG and Transporters(NONTSD)	0.25	0	0	N/A	N/A	N/A	0
Tribal Tanks List(TRIBLTANKS)	0.25	0	0	N/A	N/A	N/A	0
Tribal Lust List(TRIBLLUST)	0.50	0	0	0	N/A	N/A	0
US Institutional and/or Engineering Controls(USINSTENG)	0.50	0	0	0	N/A	N/A	0
Brownfields Management System(USBRWNFLDS)	0.50	0	0	0	N/A	N/A	0
DHEC DATABASES							
State NPL Equivalent(STNPL)	1.00	0	0	0	1	N/A	1
Solid Waste Facilities List(SLDWST)	0.50	0	0	1	1	N/A	2
Leaking Underground Storage Tanks List(LUST)	0.50	0	0	0	1	N/A	1
Underground/Aboveground Storage Tanks(TANKS)	0.25	0	0	N/A	N/A	N/A	0
State Designated Brownfields(BRWNFLDS)	0.50	0	0	0	N/A	N/A	0
State Voluntary Cleanup List(VOLCLNUP)	0.50	0	0	0	N/A	N/A	0
State Dry Cleaners List(DRY)	0.50	0	0	0	N/A	N/A	0
Spills List(SPILLS)	0.25	0	0	N/A	N/A	N/A	0
State Institutional and/or Engineering Controls(INSTENG)	0.25	0	0	N/A	N/A	N/A	0
SUPPLEMENTAL DATABASES							
Record Of Decisions System(RODS)	1.00	0	0	0	0	N/A	0
RCRA Administrative Action Tracking System(RAATS)	1.00	0	0	0	0	N/A	0
Biennial Reporting System(BRS)	0.25	0	0	N/A	N/A	N/A	0
PCB Activity Data System(PADS)	0.25	0	0	N/A	N/A	N/A	0
Permit Compliance System(PCS)	0.25	0	0	N/A	N/A	N/A	0
Facility Registry System(FRS)	0.25	0	0	1	N/A	N/A	1
Toxic Release Inventory System(TRIS)	0.25	0	0	N/A	N/A	N/A	0

*** Disclaimer ***

Please understand that the regulatory databases we utilize were not originally intended for our use, but rather for the source agency's internal tracking of sites for which they have jurisdiction or other interest. As a result of this difference in intended use, their data is frequently found to be incomplete or inaccurate, and is less than ideal for our use. Additionally, limitations exist in mapping data detail and accuracy. Our report is not to be relied upon for any purpose other than to "point" at approximate locations where further evaluation may be warranted. No conclusion can be based solely upon our report. Rather, our report should be used in conjunction with other relevant information to direct your attention at potential problem areas; which should be followed up by site inspections, interviews with relevant personnel and regulatory file review. Readers proceed at their own risk in relying upon this data, in whole or in part, for use within any evaluation. The EDM Service Request Form contains more detailed language with regard to such limitations, the terms of which the reader must accept in their entirety before utilizing this report. If the signed contract is not available to the reader, EDM will gladly furnish a copy upon request. Requests via email authorization are construed to be in accordance with these terms.



Source: 2006 US Census Bureau TIGER Files

Map Scale and Site Locations are Approximate

Subject Property

Williamsburg County Tax Map Number 45-17
Epps No. 1 Industrial Park
Williamsburg County, South Carolina

EDM Job No: 20828
February 17, 2011

Approximate Site Boundary



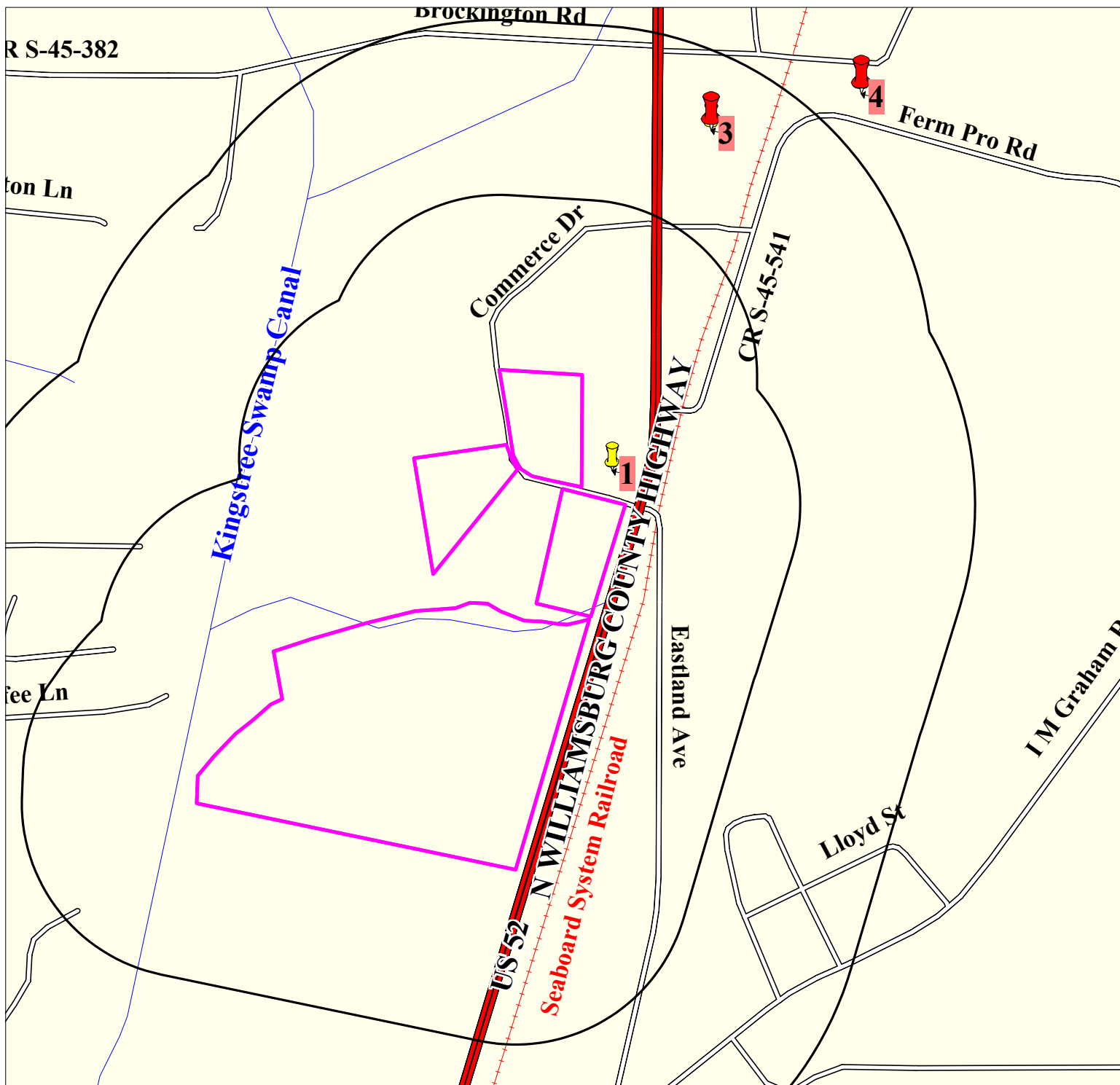
NPL, STNPL, CORRACTS, TSD, RODS
RAATS & sites - 1 Mile Radius



CERCLIS, NFRAP, STCERC, SLDWST,
LUST, BRWNFLDS, VOLCLNUP
& DRY sites - 1/2 Mile Radius



ERNS, NONTSD, TANKS, SPILLS,
INSTENG, BRS, PADS, PCS, TRIS
& FRS sites - 1/4 Mile Radius



Source: 2006 US Census Bureau TIGER Files

Map Scale and Site Locations are Approximate

Subject Property

Williamsburg County Tax Map Number 45-17
Epps No. 1 Industrial Park
Williamsburg County, South Carolina

EDM Job No: 20828
February 17, 2011

Approximate Site Boundary



NPL, STNPL, CORRACTS, TSD, RODS
RAATS & sites - 1 Mile Radius



CERCLIS, NFRAP, STCERC, SLDWST,
LUST, BRWNFLDS, VOLCLNUP
& DRY sites - 1/2 Mile Radius



ERNS, NONTSD, TANKS, SPILLS,
INSTENG, BRS, PADS, PCS, TRIS
& FRS sites - 1/4 Mile Radius

ENVIRONMENTAL DATA MANAGEMENT

Comprehensive ASTM Research

Report Date: 2/17/2011

SUMMARY TABLE

Page 1 of 1

		REGULATORY LISTS																											
		N P L	C E R C L I S	N F R A P	E R N S	C O R R A C T S	T S D	N O N T S D	T R I B U T A N K S	T R I B U T A N K S	U S I N G F L D S	U S B R W N F L D S	S T N P L	S L D W S T	L U S T	T A N K S	B R W N F L D S	V O L C L N U P	D R Y	S P I L L S	I N S T E N G	R O A D S	R A S T S	B A R S	P A D S	P C S S	F R S S	T R I S	
MAPID# FAC ID, NAME AND LOCATION																													
1)	110020497960 ARC TECHNOLOGY LLC 478 COMMERCE ROAD KINGSTREE, SC. 29556																											X	
1)	452767-8001 ARC Technology Plasma Enhanced Melter 478 Commerce Dr. Kingstree, SC. 29556													X															
2)	SCD981474786 WILLIAMSBURG CNTY.IND.LDFL #1 N. ON CO RD (SEE CM FORM) KINGSTREE, SC. 29566		X										X																
3)	09046 TRAVENOL LABORATORIES INC HWY 52 N KINGSTREE, SC. 29556														X														
3)	453305-1601 Travenol Laboratories, Inc. (G.B. Fer 																												

SCDHEC BUREAU OF LAND AND WASTE MANAGEMENT SOLID WASTE FACILITIES LIST (SLDWST)

Report Date: 2/17/2011

SLDWST Page 1 of 1

FACILITY ID NUMBER, NAME AND LOCATION:

MAP ID NUMBER:

1

**S
L
D
W
S
T**

452767-8001
ARC Technology Plasma Enhanced Melter
478 Commerce Dr.
Kingstree, SC 29556

Dist (Miles): 0.49

Direction: NE

CONTACT NAME:

CONTACT TEL:

COUNTY: Williamsburg

DISTRICT:

PERMIT TYPE:

PERMIT ISS:

PERMIT EXP:

LANDFILL INFO:

LANDFILL CLOSED?:

GROUNDWATER MONITORING? (Y/N): POST CLOSURE CARE:

FACILITY RENAMED OR RENUMBERED AS (IF APPLICABLE): /

USEPA FACILITY REGISTRY SYSTEM

(FRS)

Report Date: 2/17/2011

FRS Page 1 of 1

FACILITY ID NUMBER, NAME AND LOCATION:

110020497960
ARC TECHNOLOGY LLC
478 COMMERCE ROAD
KINGSTREE, SC 29556

MAP ID NUMBER:

Dist (Miles): 0.49
Direction: NE

1

FRS

Program ID No: SC0000217282

EPA Program: SC-EFIS

South Carolina - Environmental Facility Information System

Program ID No: 4508900040

EPA Program: AIRS/AFS

Aerometric Information Retrieval System/AIRS FacilitySubsystem

Program ID No: 110020497960

EPA Program: FRS

Facility Registry System

USEPA COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION AND LIABILITY INFORMATION SYSTEM LIST (CERCLIS)

Report Date:2/17/2011

CERCLIS Page 1 of 1

FACILITY ID NUMBER, NAME AND LOCATION:

SCD981474786
WILLIAMSBURG CNTY.IND.LDFL #1
N. ON CO RD (SEE CM FORM)
KINGSTREE, SC 29566

MAP ID NUMBER:

Dist (Miles): 0.64
Direction: SE

2

C
E
R
C
L
I
S

NPL DESCRIPTION: NOT ON THE NPL
OWNERSHIP TYPE:
FEDERAL FACILITY STATUS: NOT A FEDERAL FACILITY
NON NPL STATUS: NFRAP
SITE INCIDENT CATEGORY:

CERCLIS EVENT DETAIL FOR EACH OPERABLE UNIT

OPERABLE UNIT ID #: 00

OPERABLE UNIT NAME: SITEWIDE

EVENT NAME: PRELIMINARY ASSESSMENT
START DATE:
COMPLETION DATE: 8/13/1987
EVENT LEAD: State, Fund Financed
EVENT QUALIFIER: Low priority for further assessment

EVENT NAME: DISCOVERY
START DATE:
COMPLETION DATE: 5/16/1986
EVENT LEAD: EPA Fund-Financed
EVENT QUALIFIER:

EVENT NAME: SITE INSPECTION
START DATE:
COMPLETION DATE: 12/29/1987
EVENT LEAD: State, Fund Financed
EVENT QUALIFIER: Low priority for further assessment

ADDITIONAL EPA COMMENTS FOR THIS FACILITY:

SCDHEC STATE PRIORITY LIST SITES

(STNPL)

Report Date: 2/17/2011

STNPL Page 1 of 1

FACILITY ID NUMBER, NAME AND LOCATION:

SCD981474786
WILLIAMSBURG CO INDUSTRIAL LF #1
S-159 N 2.5 MI FROM INT S-186 ON LT
KINGSTREE, SC 29556

MAP ID NUMBER:

Dist (Miles): 0.64
Direction: SE

2

S
T
N
P
L

SITE DESCRIPTION: COUNTY OPERATED INDUSTRIAL LANDFILL.

USEPA NPL SITE?: NO

USEPA CERCLIS SITE?: YE

USEPA RESOURCE CONSERVATION AND RECOVERY ACT INFORMATION SYSTEM (RCRIS) (TSD)

Report Date: 2/17/2011

TSD Page 1 of 2

FACILITY ID NUMBER, NAME AND LOCATION:

SCD056811326
ALLEGIANCE HEALTHCARE CORP
HIGHWAY 52 NORTH
KINGSTREE, SC 29556

CONTACT INFORMATION:

PO BOX 510
KINGSTREE, SC 29556
Contact: DUKES BOBBY
Contact Telephone: 8033822315
Contact Email:

MAP ID NUMBER:

Dist (Miles): 0.98
Direction: NE

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RCRIS INFORMATION

NOTIFICATION DATE: 3/27/2002

SOURCE: PART A

GEN STATUS(Fed): NOT A GENERATOR-VERIFIED
GEN STATUS(State): NOT A GENERATOR-VERIFIED
TRANSPORTER?: NOT A TRANSPORTER, VERIFIED
TSD?: TREAT, STORE &/OR DISPOSE OF HAZ WASTE
NON-NOTIFIER?:
RECYCLER?: NO

ON SITE BURNER?: UNKNOWN
FURNACE?: UNKNOWN
UNDGRND INJ?: NO UNDER
XFER FAC?: UNKNOWN
UO BURNER?: NO
UO PROC?: NO
UO RECY?: NO
UO TRANS?: NO
UO XFER?: NO

NOTIFICATION DATE: 3/27/2002

SOURCE: NOTIFICATION

GEN STATUS(Fed): NOT A GENERATOR-VERIFIED
GEN STATUS(State): NOT A GENERATOR-VERIFIED
TRANSPORTER?: NOT A TRANSPORTER, VERIFIED
TSD?: NOT A TSD, VERIFIED
NON-NOTIFIER?:
RECYCLER?: N

ON SITE BURNER?: N
FURNACE?: N
UNDGRND INJ?: NO UNDER
XFER FAC?:
UO BURNER?: N
UO PROC?: N
UO RECY?: N
UO TRANS?: N
UO XFER?: N

NOTIFICATION DATE: 3/27/2002

SOURCE: ANNUAL/BIENNIAL REPORT

GEN STATUS(Fed): LARGE QUANTITY GENERATOR(>1000 KG PER MONTH)
GEN STATUS(State):
TRANSPORTER?: UNKNOWN
TSD?: NOT A TSD, VERIFIED
NON-NOTIFIER?:
RECYCLER?: UNKNOWN

ON SITE BURNER?: UNKNOWN
FURNACE?: UNKNOWN
UNDGRND INJ?: UNKNOWN
XFER FAC?: UNKNOWN
UO BURNER?: UNKNOWN
UO PROC?: UNKNOWN
UO RECY?: UNKNOWN
UO TRANS?: UNKNOWN
UO XFER?: UNKNOWN

NOTIFICATION DATE: 3/3/1997

SOURCE: NOTIFICATION

GEN STATUS(Fed): CONDITIONALLY EXEMPT SQG(<100 KG PER MONTH)
GEN STATUS(State):
TRANSPORTER?: NOT A TRANSPORTER, VERIFIED
TSD?: NOT A TSD, VERIFIED
NON-NOTIFIER?:
RECYCLER?: N

ON SITE BURNER?: N
FURNACE?: N
UNDGRND INJ?: NO UNDER
XFER FAC?:
UO BURNER?: N
UO PROC?: N
UO RECY?: N
UO TRANS?: N
UO XFER?: N

NOTIFICATION DATE: 3/1/1996

SOURCE: ANNUAL/BIENNIAL REPORT

GEN STATUS(Fed): LARGE QUANTITY GENERATOR(>1000 KG PER MONTH)
GEN STATUS(State):
TRANSPORTER?: NOT A TRANSPORTER, VERIFIED
TSD?: NOT A TSD, VERIFIED
NON-NOTIFIER?:
RECYCLER?: N

ON SITE BURNER?: N
FURNACE?: N
UNDGRND INJ?: NO UNDER
XFER FAC?:
UO BURNER?: N
UO PROC?: N
UO RECY?: N
UO TRANS?: N
UO XFER?: N

NOTIFICATION DATE: 11/19/1980

SOURCE: PART A

GEN STATUS(Fed): NOT A GENERATOR-VERIFIED
GEN STATUS(State): NOT A GENERATOR-VERIFIED
TRANSPORTER?: NOT A TRANSPORTER, VERIFIED
TSD?: TREAT, STORE &/OR DISPOSE OF HAZ WASTE
NON-NOTIFIER?:
RECYCLER?: N

ON SITE BURNER?: N
FURNACE?: N
UNDGRND INJ?: NO UNDER
XFER FAC?:
UO BURNER?: N
UO PROC?: N
UO RECY?: N
UO TRANS?: N
UO XFER?: N

VIOLATION INFO

EDM

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USEPA RESOURCE CONSERVATION AND RECOVERY ACT INFORMATION SYSTEM (RCRIS) (TSD)

Report Date: 2/17/2011

TSD Page 2 of 2

SCDHEC BUREAU OF LAND AND WASTE MANAGEMENT SOLID WASTE FACILITIES LIST (SLDWST)

Report Date: 2/17/2011

SLDWST Page 1 of 1

FACILITY ID NUMBER, NAME AND LOCATION:

MAP ID NUMBER:

3

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453305-1601

Travenol Laboratories, Inc. (G.B. Fer

, 0

Dist (Miles): 0.98

Direction: NE

CONTACT NAME: MS. SANDRA WARD

CONTACT TEL: 843-382-8485

COUNTY: Williamsburg

DISTRICT:

PERMIT TYPE: INDUSTRIAL SLDWST LF

PERMIT ISS:

PERMIT EXP: PENDING

LANDFILL INFO:

LANDFILL CLOSED?:

GROUNDWATER MONITORING? (Y/N): Y **POST CLOSURE CARE:**

FACILITY RENAMED OR RENUMBERED AS (IF APPLICABLE): /

SCDHEC CONFIRMED RELEASE REPORT

(LUST)

Report Date: 2/17/2011

LUST Page 1 of 1

FACILITY ID NUMBER, NAME AND LOCATION:

09046
TRAVENOL LABORATORIES INC
HWY 52 N
KINGSTREE, SC 29556

MAP ID NUMBER:

3

Dist (Miles): 0.98

Direction: NE

Tank Owner:

TRAVENOL LABORATORIES INC

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PROJ MGR: CORLEYHR

REL ID: 1

REL RPTD: 6/25/1992

REL CONFD: 6/25/1992

SUBST: PETRO

SCORE:

PRIORITY RANK:

STATUS:

NFA DATE: 9/1/1992

USEPA RESOURCE CONSERVATION AND RECOVERY ACT INFORMATION SYSTEM (RCRIS) (TSD)

Report Date: 2/17/2011

TSD Page 1 of 3

FACILITY ID NUMBER, NAME AND LOCATION:

SCD083418491
FERMPRO MANUFACTURING LP
HWY 52 N
KINGSTREE, SC 29556

CONTACT INFORMATION:

PO BOX 5000
KINGSTREE, SC 29556
Contact: HYMAN KARESH
Contact Telephone: 8033828485
Contact Email:

MAP ID NUMBER:

Dist (Miles): 1.14
Direction: NE

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RCRIS INFORMATION

NOTIFICATION DATE: 10/19/2010 SOURCE: NOTIFICATION

GEN STATUS(Fed): LARGE QUANTITY GENERATOR(>1000 KG PER MONTH)
GEN STATUS(State): LARGE QUANTITY GENERATOR(>1000 KG PER MONTH)
TRANSPORTER?: NOT A TRANSPORTER, VERIFIED
TSD?: NOT A TSD, VERIFIED
NON-NOTIFIER?:
RECYCLER?: N

ON SITE BURNER?: N
FURNACE?: N
UNDGRND INJ?: NO UNDER
XFER FAC?: N
UO BURNER?: N
UO PROC?: N
UO RECY?: N
UO TRANS?: N
UO XFER?: N

NOTIFICATION DATE: 12/31/2009 SOURCE: BIENNIAL RPT

GEN STATUS(Fed): LARGE QUANTITY GENERATOR(>1000 KG PER MONTH)
GEN STATUS(State): LARGE QUANTITY GENERATOR(>1000 KG PER MONTH)
TRANSPORTER?: NOT A TRANSPORTER, VERIFIED
TSD?: NOT A TSD, VERIFIED
NON-NOTIFIER?:
RECYCLER?: N

ON SITE BURNER?: N
FURNACE?: N
UNDGRND INJ?: NO UNDER
XFER FAC?: N
UO BURNER?: N
UO PROC?: N
UO RECY?: N
UO TRANS?: N
UO XFER?: N

NOTIFICATION DATE: 1/1/2008 SOURCE: ANNUAL/BIENNIAL REPORT

GEN STATUS(Fed): LARGE QUANTITY GENERATOR(>1000 KG PER MONTH)
GEN STATUS(State): LARGE QUANTITY GENERATOR(>1000 KG PER MONTH)
TRANSPORTER?: NOT A TRANSPORTER, VERIFIED
TSD?: NOT A TSD, VERIFIED
NON-NOTIFIER?:
RECYCLER?: N

ON SITE BURNER?: N
FURNACE?: N
UNDGRND INJ?: NO UNDER
XFER FAC?: N
UO BURNER?: N
UO PROC?: N
UO RECY?: N
UO TRANS?: N
UO XFER?: N

NOTIFICATION DATE: 1/1/2006 SOURCE: ANNUAL/BIENNIAL REPORT

GEN STATUS(Fed): LARGE QUANTITY GENERATOR(>1000 KG PER MONTH)
GEN STATUS(State): LARGE QUANTITY GENERATOR(>1000 KG PER MONTH)
TRANSPORTER?: NOT A TRANSPORTER, VERIFIED
TSD?: NOT A TSD, VERIFIED
NON-NOTIFIER?:
RECYCLER?: N

ON SITE BURNER?: N
FURNACE?: N
UNDGRND INJ?: NO UNDER
XFER FAC?: N
UO BURNER?: N
UO PROC?: N
UO RECY?: N
UO TRANS?: N
UO XFER?: N

NOTIFICATION DATE: 11/1/2004 SOURCE: NOTIFICATION

GEN STATUS(Fed): LARGE QUANTITY GENERATOR(>1000 KG PER MONTH)
GEN STATUS(State): LARGE QUANTITY GENERATOR(>1000 KG PER MONTH)
TRANSPORTER?: NOT A TRANSPORTER, VERIFIED
TSD?: NOT A TSD, VERIFIED
NON-NOTIFIER?:
RECYCLER?: N

ON SITE BURNER?: N
FURNACE?: N
UNDGRND INJ?: NO UNDER
XFER FAC?: N
UO BURNER?: N
UO PROC?: N
UO RECY?: N
UO TRANS?: N
UO XFER?: N

NOTIFICATION DATE: 1/1/2004 SOURCE: ANNUAL/BIENNIAL REPORT

GEN STATUS(Fed): LARGE QUANTITY GENERATOR(>1000 KG PER MONTH)
GEN STATUS(State): NOT A GENERATOR-VERIFIED
TRANSPORTER?: NOT A TRANSPORTER, VERIFIED
TSD?: NOT A TSD, VERIFIED
NON-NOTIFIER?:
RECYCLER?: N

ON SITE BURNER?: N
FURNACE?: N
UNDGRND INJ?: NO UNDER
XFER FAC?: N
UO BURNER?: N
UO PROC?: N
UO RECY?: N
UO TRANS?: N
UO XFER?: N

USEPA RESOURCE CONSERVATION AND RECOVERY ACT INFORMATION SYSTEM (RCRIS) (TSD)

Report Date: 2/17/2011

TSD Page 2 of 3

NOTIFICATION DATE: 9/12/2003 **SOURCE:** NOTIFICATION

GEN STATUS(Fed): LARGE QUANTITY GENERATOR(>1000 KG PER MONTH)
GEN STATUS(State): LARGE QUANTITY GENERATOR(>1000 KG PER MONTH)
TRANSPORTER?: NOT A TRANSPORTER,VERIFIED
TSD?: NOT A TSD,VERIFIED
NON-NOTIFIER?:
RECYCLER?: N

ON SITE BURNER?: N
FURNACE?: N
UNDGRND INJ?: NO UNDER
XFER FAC?:
UO BURNER?: N
UO PROC?: N
UO RECY?: N
UO TRANS?: N
UO XFER?: N

NOTIFICATION DATE: 3/1/2002 **SOURCE:** ANNUAL/BIENNIAL REPORT

GEN STATUS(Fed): LARGE QUANTITY GENERATOR(>1000 KG PER MONTH)
GEN STATUS(State): LARGE QUANTITY GENERATOR(>1000 KG PER MONTH)
TRANSPORTER?: NOT A TRANSPORTER,VERIFIED
TSD?: NOT A TSD,VERIFIED
NON-NOTIFIER?:
RECYCLER?: N

ON SITE BURNER?: N
FURNACE?: N
UNDGRND INJ?: NO UNDER
XFER FAC?:
UO BURNER?: N
UO PROC?: N
UO RECY?: N
UO TRANS?: N
UO XFER?: N

NOTIFICATION DATE: 1/3/2000 **SOURCE:** ANNUAL/BIENNIAL REPORT

GEN STATUS(Fed): LARGE QUANTITY GENERATOR(>1000 KG PER MONTH)
GEN STATUS(State):
TRANSPORTER?: NOT A TRANSPORTER,VERIFIED
TSD?: NOT A TSD,VERIFIED
NON-NOTIFIER?:
RECYCLER?: N

ON SITE BURNER?: N
FURNACE?: N
UNDGRND INJ?: NO UNDER
XFER FAC?:
UO BURNER?: N
UO PROC?: N
UO RECY?: N
UO TRANS?: N
UO XFER?: N

NOTIFICATION DATE: 3/1/1998 **SOURCE:** ANNUAL/BIENNIAL REPORT

GEN STATUS(Fed): LARGE QUANTITY GENERATOR(>1000 KG PER MONTH)
GEN STATUS(State):
TRANSPORTER?: NOT A TRANSPORTER,VERIFIED
TSD?: NOT A TSD,VERIFIED
NON-NOTIFIER?:
RECYCLER?: N

ON SITE BURNER?: N
FURNACE?: N
UNDGRND INJ?: NO UNDER
XFER FAC?:
UO BURNER?: N
UO PROC?: N
UO RECY?: N
UO TRANS?: N
UO XFER?: N

NOTIFICATION DATE: 7/3/1996 **SOURCE:** NOTIFICATION

GEN STATUS(Fed): LARGE QUANTITY GENERATOR(>1000 KG PER MONTH)
GEN STATUS(State):
TRANSPORTER?: NOT A TRANSPORTER,VERIFIED
TSD?: NOT A TSD,VERIFIED
NON-NOTIFIER?:
RECYCLER?: N

ON SITE BURNER?: N
FURNACE?: N
UNDGRND INJ?: NO UNDER
XFER FAC?:
UO BURNER?: N
UO PROC?: N
UO RECY?: N
UO TRANS?: N
UO XFER?: N

NOTIFICATION DATE: 3/1/1996 **SOURCE:** NOTIFICATION

GEN STATUS(Fed): LARGE QUANTITY GENERATOR(>1000 KG PER MONTH)
GEN STATUS(State):
TRANSPORTER?: NOT A TRANSPORTER,VERIFIED
TSD?: NOT A TSD,VERIFIED
NON-NOTIFIER?:
RECYCLER?: NO

ON SITE BURNER?: UNKNOWN
FURNACE?: UNKNOWN
UNDGRND INJ?: NO UNDER
XFER FAC?:
UO BURNER?: NO
UO PROC?: NO
UO RECY?: NO
UO TRANS?: NO
UO XFER?: NO

NOTIFICATION DATE: 3/1/1996 **SOURCE:** PART A

GEN STATUS(Fed): NOT A GENERATOR-VERIFIED
GEN STATUS(State): NOT A GENERATOR-VERIFIED
TRANSPORTER?: NOT A TRANSPORTER,VERIFIED
TSD?: TREAT,STORE &/OR DISPOSE OF HAZ WASTE
NON-NOTIFIER?:
RECYCLER?: NO

ON SITE BURNER?: UNKNOWN
FURNACE?: UNKNOWN
UNDGRND INJ?: NO UNDER
XFER FAC?: UNKNOWN
UO BURNER?: NO
UO PROC?: NO
UO RECY?: NO
UO TRANS?: NO
UO XFER?: NO

USEPA RESOURCE CONSERVATION AND RECOVERY ACT INFORMATION SYSTEM (RCRIS) (TSD)

Report Date: 2/17/2011

TSD Page 3 of 3

NOTIFICATION DATE: 3/1/1996 **SOURCE:** ANNUAL/BIENNIAL REPORT

GEN STATUS(Fed): LARGE QUANTITY GENERATOR(>1000 KG PER MONTH)
GEN STATUS(State):
TRANSPORTER?: NOT A TRANSPORTER,VERIFIED
TSD?: NOT A TSD,VERIFIED
NON-NOTIFIER?:
RECYCLER?: N

ON SITE BURNER?: N
FURNACE?: N
UNDGRND INJ?: NO UNDER
XFER FAC?:
UO BURNER?: N
UO PROC?: N
UO RECY?: N
UO TRANS?: N
UO XFER?: N

NOTIFICATION DATE: 3/1/1990 **SOURCE:** ANNUAL/BIENNIAL REPORT

GEN STATUS(Fed): LARGE QUANTITY GENERATOR(>1000 KG PER MONTH)
GEN STATUS(State):
TRANSPORTER?: NOT A TRANSPORTER,VERIFIED
TSD?: NOT A TSD,VERIFIED
NON-NOTIFIER?:
RECYCLER?: N

ON SITE BURNER?: N
FURNACE?: N
UNDGRND INJ?: NO UNDER
XFER FAC?:
UO BURNER?: N
UO PROC?: N
UO RECY?: N
UO TRANS?: N
UO XFER?: N

NOTIFICATION DATE: 11/19/1980 **SOURCE:** PART A

GEN STATUS(Fed): NOT A GENERATOR-VERIFIED
GEN STATUS(State): NOT A GENERATOR-VERIFIED
TRANSPORTER?: NOT A TRANSPORTER,VERIFIED
TSD?: TREAT,STORE &/OR DISPOSE OF HAZ WASTE
NON-NOTIFIER?:
RECYCLER?: N

ON SITE BURNER?: N
FURNACE?: N
UNDGRND INJ?: NO UNDER
XFER FAC?:
UO BURNER?: N
UO PROC?: N
UO RECY?: N
UO TRANS?: N
UO XFER?: N

VIOLATION INFO

Eval Date: 06/06/2006
Viol Date: 06/06/2006
Enf Date: 06/06/2006

Eval Agcy: EPA
Viol Agcy:
Enf Agcy: EPA

Eval Type Descr: COMPLIANCE EVALUATION INSPECTION ON-SITE
Enf Type Descr: EPA TO STATE ADMINISTRATIVE REFERRAL
Lead Agcy:

Viol Type: 265.D	TSD IS-Contingency Plan and Emergency Procedures	Citation:	Compl Date: 06/06/2006
Viol Type: 265.B	TSD IS-General Facility Standards	Citation:	Compl Date: 06/06/2006
Viol Type: 262.B	Generators - Manifest	Citation:	Compl Date: 06/06/2006
Viol Type: 273.B	Universal Waste - Small Quantity Handlers	Citation:	Compl Date: 06/06/2006
Viol Type: 265.I	TSD IS-Container Use and Management	Citation:	Compl Date: 06/06/2006
Viol Type: 265.I	TSD IS-Container Use and Management	Citation:	Compl Date: 06/06/2006
Viol Type: 273.B	Universal Waste - Small Quantity Handlers	Citation:	Compl Date: 06/06/2006
Viol Type: 273.B	Universal Waste - Small Quantity Handlers	Citation:	Compl Date: 06/06/2006
Viol Type: 264.B	TSD - General Facility Standards	Citation:	Compl Date: 06/06/2006
Viol Type: 262.B	Generators - Manifest	Citation:	Compl Date: 06/06/2006
Viol Type: 262.B	Generators - Manifest	Citation:	Compl Date: 06/06/2006

LUST ADDENDUM REPORT -- TANK DATA DETAIL

The following is the TANKS data associated with LUST sites that were mapped **outside** of the ¼ TANKS query criteria.

(TANKS)

Report Date: 2/17/2011

TANKS Page 1 of 1

FACILITY ID NUMBER, NAME AND LOCATION:

09046
TRAVENOL LABORATORIES INC
HWY 52 N
KINGSTREE, SC 29556

OWNERSHIP INFORMATION:

TRAVENOL LABORATORIES INC
HWY 52 N
KINGSTREE SC 29556
-
CON: BOBBY DUKES
CON TEL: -

MAP ID NUMBER:

Dist (Miles): 0.98
Direction: NE

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TANK DETAIL

TANK #:	TANK CAP(GALS):	CALC AGE:	CONTENTS:	TANK STATUS:
1	12000		HS	ABANDONED

PROXIMAL RECORDS TABLE

Report Date: 2/17/2011

The Proximal Records Table includes mapped facilities that appear outside of the study area, but in the proximity of the research boundary. They are provided in a summary fashion to allow one to determine potential interest.

Generally, these sites may be of potential interest for three reasons:

- 1.) The location occurs so close to the research boundary that it merits inclusion in the evaluation.
- 2.) The site may be expansive with regard to the property boundary. The physical address of a landfill for example may occur outside of the research boundary, but the landfill boundary may extend into the research area. Large industrial complexes may also fall into this category.
- 3.) The U.S. Census Bureau data, from which our maps are created, is not always precise with regard to address information. A facility may therefore appear on the map outside of the research area, but actually fall within the research area. These inaccuracies are typically less than 500 feet. If you observe any such inaccuracies, we ask that you please notify us of the more precise location and we will use this information to improve our product.

If more specific information relative to one or more locations included in the Proximal Records Table is desired, please feel free to contact us and we will send you this information as an addendum to this report.

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ENVIRONMENTAL DATA MANAGEMENT

Comprehensive ASTM Research

PROXIMAL RECORDS TABLE

Report Date: 2/17/2011

Page 1 of 1

			REGULATORY LISTS																											
			N P L	C E R C L S	N F R A P	E R N S	C O R R A C T S	T S D	N O N T S D	T R I B L T A N K S	T R I B L L U S T	U S I N S T E N G	U S B R W N F L D S	S T N P L	S L D W S T	L U S T	T A N K S	B R W N F L D S	V O L C L N U P	D R Y	S P I L L S	I N S T E N G	R O A D S	R A S T S	B R A S S	P A D S	P C S	F R S	T R I S	
1A)	110007185508 PALMETTO SYNTHETICS LLC US HIGHWAY 52 NORTH KINGSTREE, SC. 29556	Dist/Dir: 0.6 N																												X
1A)	110017173654 EXCHANGE BANK PPS PROPERTY 701 N LONGSTREET US HWY 52 KINGSTREE, SC. 29556	Dist/Dir: 0.6 S																												X
2A)	SCD981474786 WILLIAMSBURG COUNTY INDUSTRIAL JCT CNTY RD 159 & CNTY RD 186 KINGSTREE, SC. 29556	Dist/Dir: 0.6 SE																												X
3A)	12366 WILLIAMSBURG COUNTY PUBLIC WORKS HWY 186 KINGSTREE, SC. 29556	Dist/Dir: 0.9 S													X															
4A)	110001138484 BAXTER HEALTHCARE CORPORATION HIGHWAY 52 NORTH KINGSTREE, SC. 29556	Dist/Dir: 1 NE																												X
5A)	09046 TRAVENOL LABORATORIES INC HWY 52 N KINGSTREE, SC. 29556	Dist/Dir: 1 NE														X														
5A)	110008560244 KINGSTREE/TRAVENOL PLANT TOWN OF KINGSTREE PO BOX 207 KINGSTREE, SC. 29556	Dist/Dir: 1 NE																												X
5A)	110017099165 TRAVENOL LABORATORIES INC HWY 52 N KINGSTREE, SC. 29556-0510	Dist/Dir: 1 NE																												X
5A)	SCD056811326 BAXTER HEALTHCARE CORP HWY 52 N KINGSTREE, SC. 29556	Dist/Dir: 1 NE							X																	X			X	
6A)	IWP-084. INTL BIO0SYNTHETICS P.O. BOX 5000 KINGSTREE, SC. 29556	Dist/Dir: 1.1 NE													X															
6A)	SCD083418491 INTL. BIOSYNTHETICS HWY 52 N KINGSTREE, SC.	Dist/Dir: 1.1 NE		X																										

NONMAPPED RECORDS TABLE

Report Date: 2/17/2011

The Non-Mapped Records Table is a listing of database records that lack sufficient address information to be placed within our mapping system, but may exist within your study area. These records have been manually screened to determine whether they could likely fall within the study area or can be conclusively identified as existing outside of the study area. Those records that could be located within the study area, but cannot be plotted within our GIS, are displayed in the Non-Mapped Records Table within this report.

If more specific information relative to one or more locations included in the Non-Mapped Records Table is desired, please feel free to contact us and we will send you this information as an addendum to this report.

NONMAPPED
RECORDS

ENVIRONMENTAL DATA MANAGEMENT

Comprehensive ASTM Research

Report Date: 2/17/2011

NON-MAPPED RECORDS TABLE

Page 1 of 2

		REGULATORY LISTS																											
		N P L	C E R C L S	N F R A P	E R R S	C O R R A C T S	T S D	N O N T S D	T R I B L T A N K S	T R I B L T U N G	U S B R W N F L D S	U S T N P L	S L D W S T	L U S T	T A N K S	B R W N F L D S	V O L C L N U P	D R Y	S P I L L S	I N S T E N G	R O A D S	R A T S	B R S	P A D S	P C S	F R S	T R I S		
MAPID#	FAC ID, NAME AND LOCATION																												
714843	MP: 326.7				X																								
	KINGSTREE, SC.																												
822488	MILEPOST A331 / /- KINGSTREE, SC.				X																								
SC0002464147	M A HANNA RUBBER COMPOUNDING EASTLAND AVE KINGSTREE, SC. 29556																										X		
651802	M.A. HANNA COMPOUNDING EASTLAND AVE KINGSTREE, SC. 29556				X																								
110017033618	COLONIAL RUBBER WORKS INC EASTLAND AVE KINGSTREE, SC. 29556																										X		
SCD065053308	COLONIAL RUBBER WORKS INC N EASTLAND AVE KINGSTREE, SC. 29556							X																			X		
110012484882	BOOTS PHARMACEUTICALS INC HIGHWAY 52 NORTH KINGSTREE, SC. 29556																										X		
110007829341	AGRICO CHEMICAL COMPANY HIGHWAY 52 NORTH KINGSTREE, SC. 29556																										X		
SCD987583986	SANTEE ELECTRIC COOPERATIVE HWY 52 KINGSTREE, SC. 29556																										X		
355971	TRI-COT COTTON GIN HWY 52 KINGSTREE, SC.				X																								
939165	MABE'S SPILL SITE HWY 52 KINGSTREE, SC.																		X										
110008550004	WILLIAMSBURG GRAIN COMPANY HWY 52 KINGSTREE, SC. 29556																										X		
13079	CAROLINA CORN PROCESSORS HWY 52 N KINGSTREE, SC. 29556													X	X														
110017196719	TRULUCKS SERVICE CENTER HWY 52 N KINGSTREE, SC. 29556																										X		
09144	AMERICAN BAKERIES CO HWY 52 N KINGSTREE, SC. 29556													X	X														
110017043750	CAROLINA CORN PROCESSORS HWY 52 NORTH KINGSTREE, SC. 29556																										X		

ENVIRONMENTAL DATA MANAGEMENT

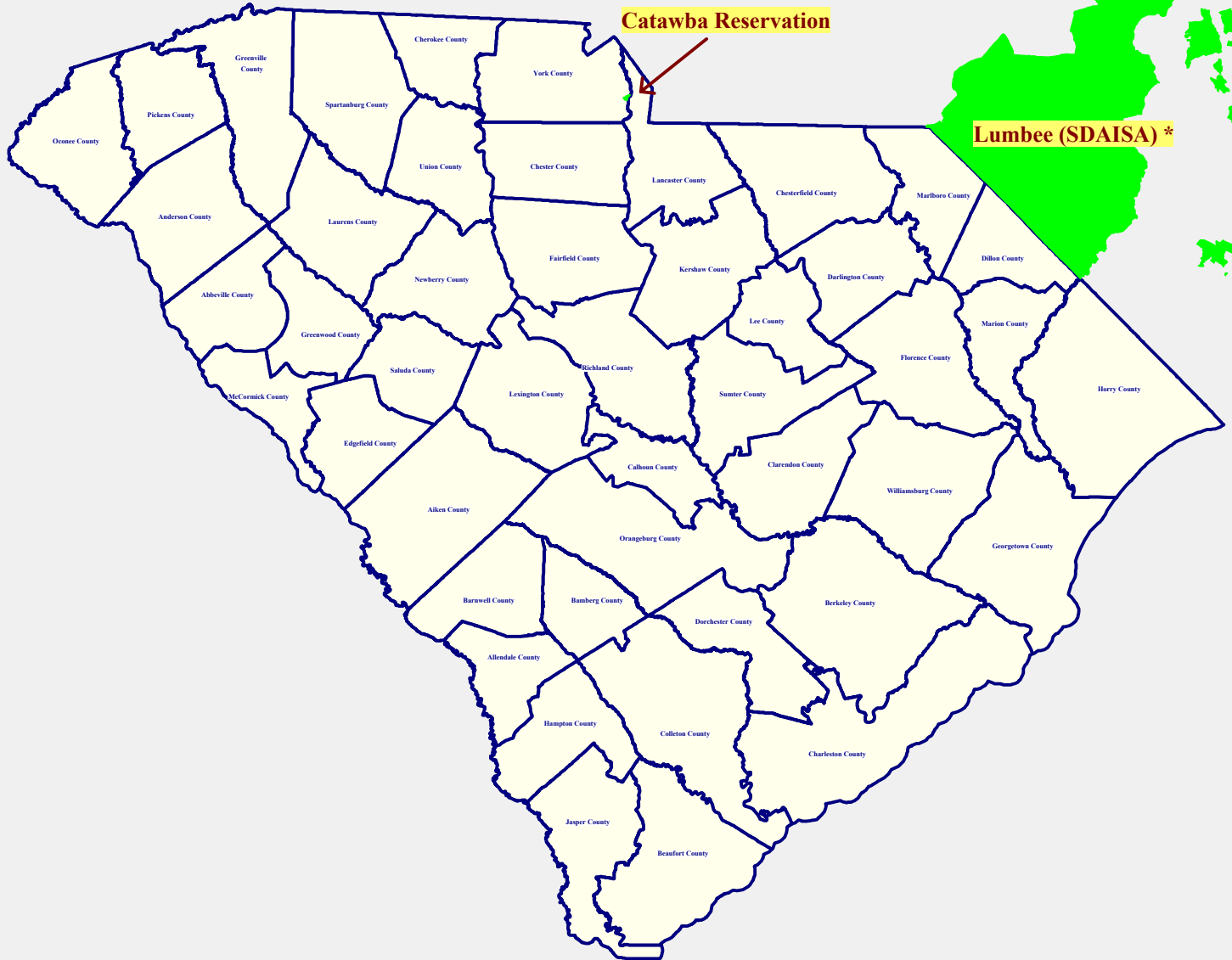
Comprehensive ASTM Research

Report Date: 2/17/2011

NON-MAPPED RECORDS TABLE

Page 2 of 2

		REGULATORY LISTS																											
MAPID#	FAC ID, NAME AND LOCATION	N P L	C E R C L I S	N F R A P	E R N S	C O R R A C T S	T S D	N O N T S D	T R I B L T A N K S	T R I B L L U S T	U S I N S T E N G	U S B R W N F L D S	U S T N P L	S L D W S T	L U S T	T A N K S	B R W N F L D S	V O L C L N U P	D R Y	S P I L L S	I N S T E N G	R O A D S	R A I L S	B R A S	P A D S	P C S	F R S	T R I S	
	110017194846 AMERICAN BAKERIES CO HWY 52 NORTH KINGSTREE, SC. 29556																												X
	12283 TRULUCKS SERVICE CENTER HWY 52 N KINGSTREE, SC. 29556															X													
	SC0000570051 IBIS LTD PARTNERSHIP HWY 52 N KINGSTREE, SC. 29556																												X
	SCD000622761 AGRICO CHEMICAL CO HWY 52 N KINGSTREE, SC. 29556																												X
	110031217430 BAXTER HEALTHCARE-CLOSED HWY 52 N KINGSTREE, SC. 29556																												X
	110008560422 IBIS LIMITED PARTNERSHIP HWY 52 N PO BOX 5000 KINGSTREE, SC. 29556																												X
	SC0002268068 M A HANNA RUBBER COMPOUNDING OLD LAKE CITY HWY KINGSTREE, SC. 29556																												X
	110008555241 PRISCILLA DORSEY DAY CARE PRISCILLA DORSEY RT 1 BOX 100 C KINGSTREE, SC. 29556																												X
	13384 COLONIAL RUBBER UNKNOWN KINGSTREE, SC. 11111															X													
	09090 CUMBEE AUTO MALL US HWY 52 KINGSTREE, SC. 29556															X													
	110017036198 CUMBEE AUTO MALL US HWY 52 KINGSTREE, SC. 29556																												X
	110008563250 BORDEN CHEMICAL SMITH - DOUGLASS US HWY 52 KINGSTREE, SC. 29556																												X
	SCD000650929 BORDON CHEMICAL US HWY 52 KINGSTREE, SC. 29556							X																					
	SCD987575883 CAROLINA CORN PROC US HWY 52 KINGSTREE, SC. 29556																												X

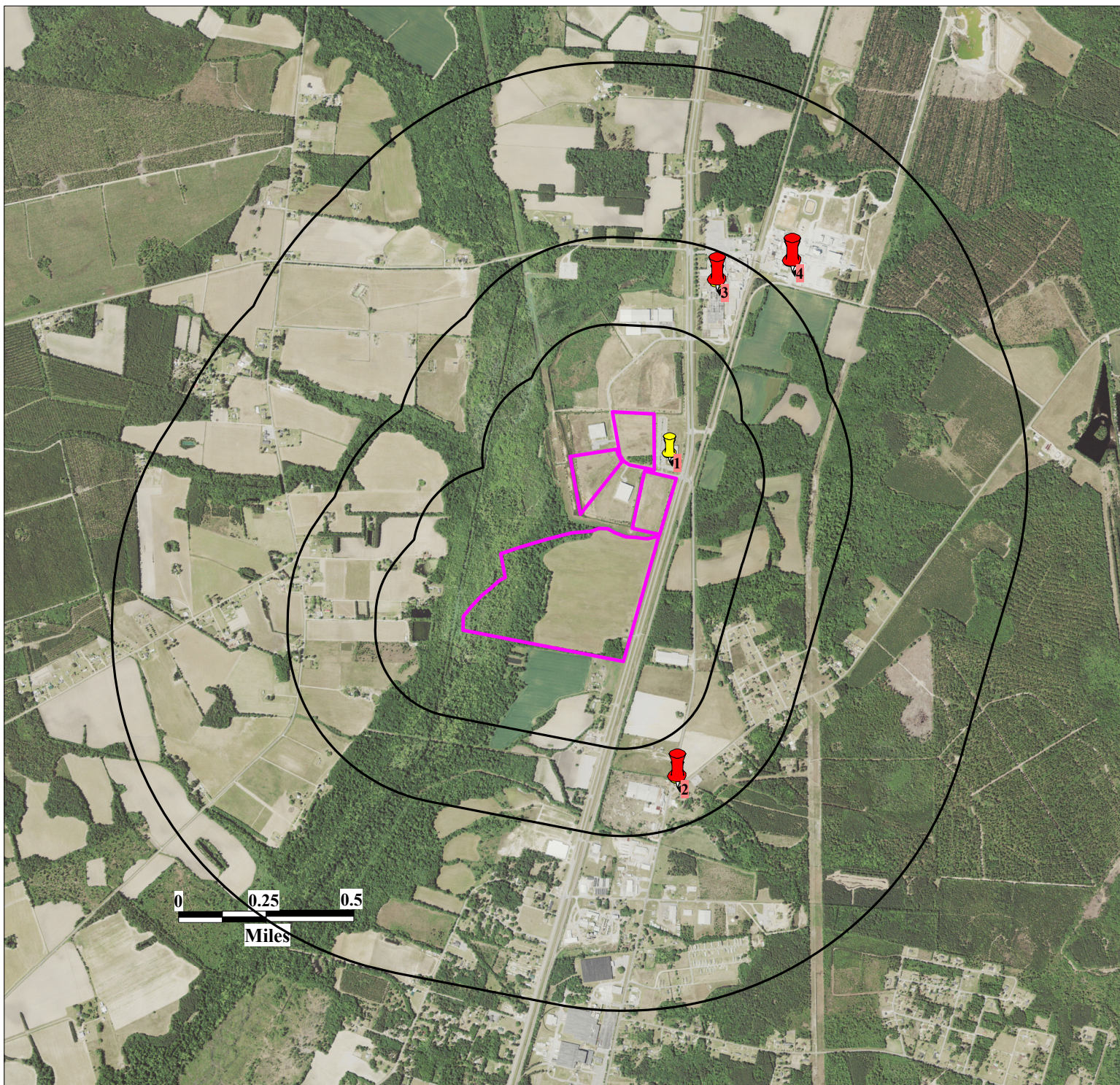


* SDAISA - State Designated American Indian Statistical Area

American Indian
Reservation
Boundaries

South Carolina Tribal Contacts

Entity	Contact	Tel/Fax	Source
Catawba Indian Nation	996 Avenue of the Nations Rock Hill, SC 29730	Phone: 803-366-4792	www.catawbaindiannation.com



Source: Natl Agriculture Imagery Program (NAIP)

Map Scale and Site Locations are Approximate

Subject Property

Williamsburg County Tax Map Number 45-17
Epps No. 1 Industrial Park
Williamsburg County, South Carolina

EDM Job No: 20828
February 17, 2011

Approximate Site Boundary



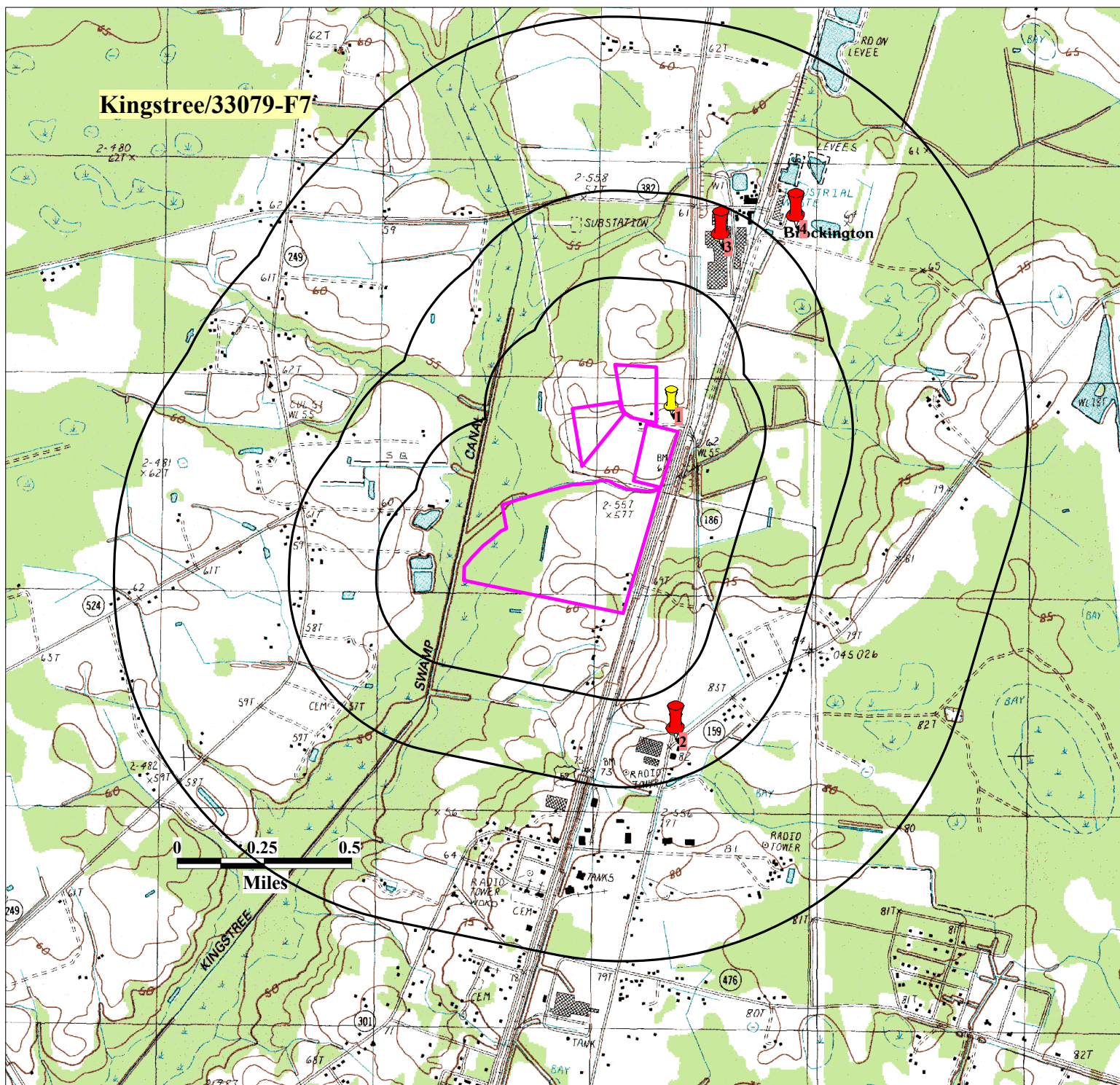
NPL, STNPL, CORRACTS, TSD, RODS
RAATS & sites - 1 Mile Radius



CERCLIS, NFRAP, STCERC, SLDWST,
LUST, BRWNFLDS, VOLCLNUP
& DRY sites - 1/2 Mile Radius



ERNS, NONTSD, TANKS, SPILLS,
INSTENG, BRS, PADS, PCS, TRIS
& FRS sites - 1/4 Mile Radius



Source: USGS Digital Raster Graphic (DRG)

Map Scale and Site Locations are Approximate

Subject Property

Williamsburg County Tax Map Number 45-17
Epps No. 1 Industrial Park
Williamsburg County, South Carolina

EDM Job No: 20828
February 17, 2011

Approximate Site Boundary



NPL, STNPL, CORRACTS, TSD, RODS
RAATS & sites - 1 Mile Radius



CERCLIS, NFRAP, STCERC, SLDWST,
LUST, BRWNFLDS, VOLCLNUP
& DRY sites - 1/2 Mile Radius



ERNS, NONTSD, TANKS, SPILLS,
INSTENG, BRS, PADS, PCS, TRIS
& FRS sites - 1/4 Mile Radius



Source: 2006 US Census Bureau TIGER Files, 1994 FEMA Q3 Flood Data

Map Scale and Site Locations are Approximate

Subject Property

Williamsburg County Tax Map Number 45-17
Epps No. 1 Industrial Park
Williamsburg County, South Carolina

EDM Job No: 20828
February 17, 2011

FEMA Flood Zone



100 Year
Flood



500 Year
Flood

Approximate Site Boundary



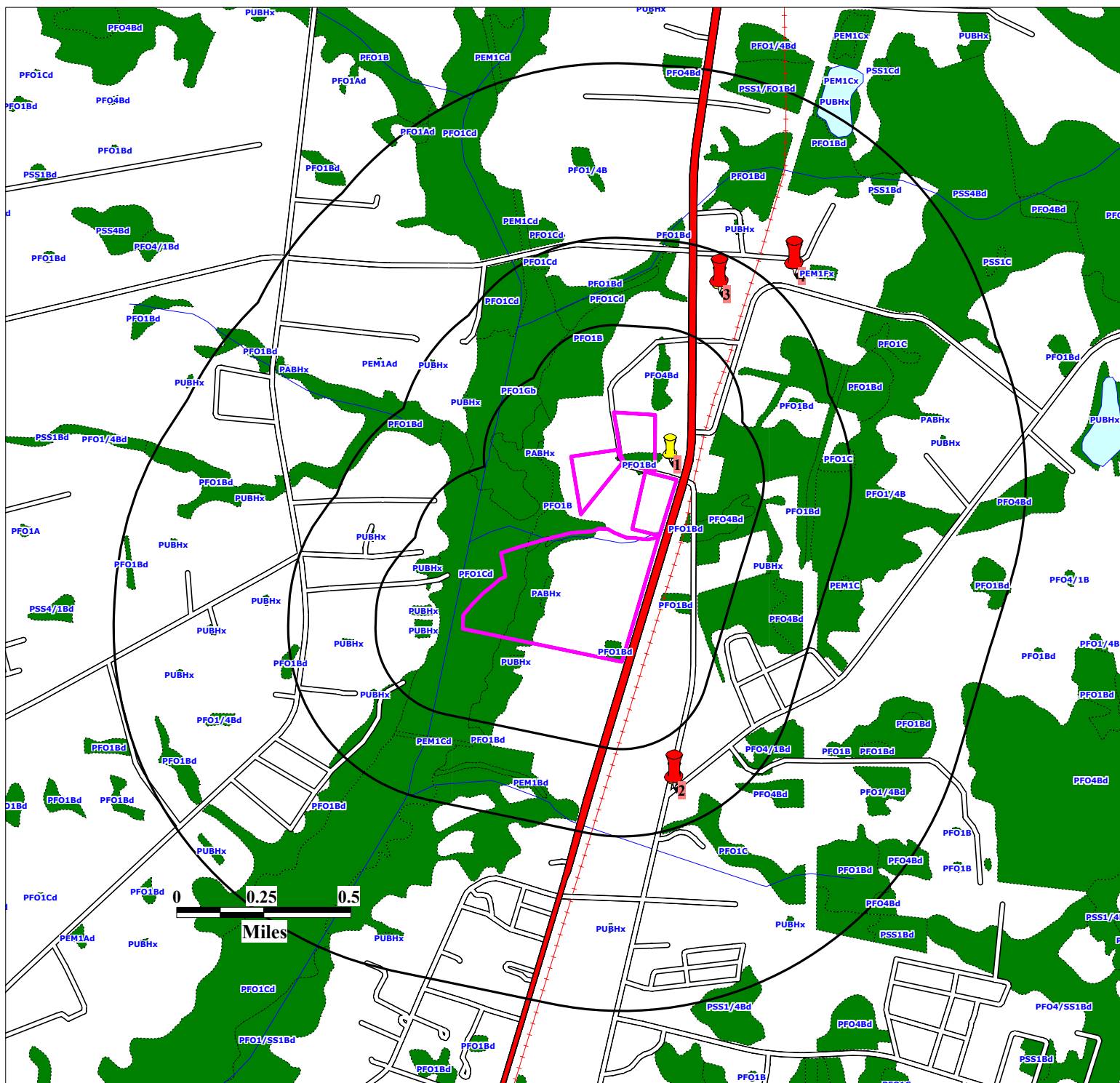
NPL, STNPL, CORRACTS, TSD, RODS
RAATS & sites - 1 Mile Radius



CERCLIS, NFRAP, STCERC, SLDWST,
LUST, BRWNFLDS, VOLCLNUP
& DRY sites - 1/2 Mile Radius



ERNS, NONTSD, TANKS, SPILLS,
INSTENG, BRS, PADS, PCS, TRIS
& FRS sites - 1/4 Mile Radius



Map Scale and Site Locations are Approximate

Subject Property

Williamsburg County Tax Map Number 45-17
Epps No. 1 Industrial Park
Williamsburg County, South Carolina

EDM Job No: 20828
February 17, 2011

NWI Wetlands	
	Upland
	Palustrine
	Lacustrine
	Riverine
	Estuarine
	Marine

Approximate Site Boundary

- NPL, STNPL, CORRACTS, TSD, RODS
RAATS & sites - 1 Mile Radius
- CERCLIS, NFRAP, STCERC, SLDWST,
LUST, BRWNFLDS, VOLCLNUP
& DRY sites - 1/2 Mile Radius
- ERNS, NONTSD, TANKS, SPILLS,
INSTENG, BRS, PADS, PCS, TRIS
& FRS sites - 1/4 Mile Radius

Agency List Descriptions

USEPA and State Databases are updated on a quarterly basis. Supplemental Databases are updated on an annual basis.

US Environmental Protection Agency (USEPA)

Comprehensive Env Response, Compensation & Liability Information System List(CERCLIS)

The US EPA Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) is the Superfund database used to track facilities and/or locations that the USEPA is investigating to determine if an existing or threatened release of hazardous substances is present.

Agency File Date: 12/28/2010

Received by EDM: 1/4/2011

EDM Database Updated: 1/5/2011

RCRIS Handlers with Corrective Action(CORRACTS)

The US EPA Corrective Action Sites (CORRACTS) database is a listing of hazardous waste handlers that have undergone RCRA corrective action activity. This information is compiled by the EPA Regional and State RCRA program personnel, as well as the RCRA facilities themselves.

Agency File Date: 1/11/2011

Received by EDM: 1/14/2011

EDM Database Updated: 1/14/2011

Emergency Response Notification System List(ERNS)

The Emergency Response Notification System (ERNS) database stores information on oil discharges and hazardous substance releases. The ERNS program is a cooperative data sharing effort among the EPA, DOT and the National Response Center (NRC), which currently provides access to this data.

Agency File Date: 1/21/2010

Received by EDM: 12/9/2010

EDM Database Updated: 12/9/2010

Archived Cerclis Sites(NFRAP)

The US EPA NFRAP list contains archived data of CERCLIS records where the EPA has completed assessment activities and determined that no further steps to list the site on the NPL will be taken. NFRAP sites may be reviewed in the future to determine if they should be returned to CERCLIS based upon newly identified contamination problems at the site.

Agency File Date: 1/10/2011

Received by EDM: 1/10/2011

EDM Database Updated: 1/10/2011

RCRA-LQG,SQG,CESQG and Transporters(NONTSD)

The EDM NONTSD list is a subset of the US EPA RCRAInfo System and identifies facilities that generate and transport hazardous wastes. These facilities may be Large Quantity Generators (LQG), Small Quantity Generators (SQG), Conditionally Exempt SQG's (CESQG) as well as "Non-Notifiers" and "Non-Handlers".

Agency File Date: 1/11/2011

Received by EDM: 1/13/2011

EDM Database Updated: 1/14/2011

National Priorities List(NPL)

The US EPA National Priorities List (NPL) contains facilities and/or locations where environmental contamination has been confirmed and prioritized for cleanup activities. In addition to sites that are currently on the EPA NPL, the EDM database contains sites that have been Proposed for and Deleted from the list.

Agency File Date: 12/6/2010

Received by EDM: 12/6/2010

EDM Database Updated: 12/6/2010

Tribal Lust List(TRIBLLUST)

EDM's Tribal LUST list is derived from the USEPA Region IV Tribal Tanks database by extracting those sites with indicators of past and/or current releases.

Agency File Date: 2/24/2010

Received by EDM: 3/9/2010

EDM Database Updated: 3/9/2010

Tribal Tanks List(TRIBLTANKS)

The USEPA Region IV Tribal Tanks database lists Active and Closed storage tank facilities on Native American lands.

Agency File Date: 2/24/2010

Received by EDM: 3/9/2010

EDM Database Updated: 3/9/2010

RCRA-Treatment, Storage and/or Disposal Sites(TSD)

The EDM TSD list is a subset of the US EPA RCRAInfo system and identifies facilities that Treat, Store and/or Dispose of hazardous waste.

Agency File Date: 1/11/2011

Received by EDM: 1/13/2011

EDM Database Updated: 1/14/2011

Brownfields Management System(USBRWNFLDS)

The US EPA Brownfields program provides information on environmentally distressed properties that have received Grants or Targeted funding for cleanup and redevelopment. Tribal Brownfield sites are included in the USBRWNFLDS database.

Agency File Date: 1/10/2011

Received by EDM: 1/10/2011

EDM Database Updated: 1/12/2011

US Institutional and/or Engineering Controls(USINSTENG)

The USINSTENG list is compiled from data elements contained in the NPL, CORRACTS and USBRWNFLDS lists.

Agency File Date: 1/10/2011

Received by EDM: 1/10/2011

EDM Database Updated: 1/12/2011

South Carolina Department of Health and Environmental Control (SCDHEC)

State Designated Brownfields(BRWNFLDS)

The SCDHEC Brownfields list is a component of the State Voluntary Cleanup Program. Brownfield sites are typically abandoned, idled or underused industrial and commercial facilities where expansion or redevelopment is complicated by real or perceived environmental contamination.

Agency File Date: 2/17/2011

Received by EDM: 2/17/2011

EDM Database Updated: 2/17/2011

State Dry Cleaners List(DRY)

The SCDHEC Dry Cleaners list contains information on sites that are registered with the State of South Carolina for inclusion in the Dry-cleaning Facility Restoration Trust Fund. These funds are used to assess, prioritize, and clean up polluted dry-cleaning sites that are registered with the State.

Agency File Date: 12/1/2010

Received by EDM: 1/26/2011

EDM Database Updated: 1/27/2011

State Institutional and/or Engineering Controls(INSTENG)

The SCDHEC Bureau of Land and Waste Management maintains the Registry of Conditional Remedies for sites that have had Institutional and/or Engineering Controls implemented to regulate exposure to environmental hazards.

Agency File Date: 2/17/2011

Received by EDM: 2/17/2011

EDM Database Updated: 2/17/2011

Leaking Underground Storage Tanks List(LUST)

The SC DHEC Confirmed Release Report (LUST) is a listing of facilities and/or locations where a confirmed release of hazardous material has occurred, including releases from underground storage tank systems.

Agency File Date: 11/16/2010

Received by EDM: 11/17/2010

EDM Database Updated: 11/19/2010

Solid Waste Facilities List(SLDWST)

The SC DHEC SLDWST list contains facilities or locations that conduct solid waste handling activities. These sites may include municipal solid waste landfills, industrial waste landfills, construction, demolition and land clearing debris sites, ash monofill landfills, inert waste sites, sludge monofill sites, solid waste transfer stations and composting and wood chipping/shredding facilities.

Please note that site location information for this list is often lacking or is frequently reported as the location of administrative offices. If you require any detailed information on a Solid Waste Facility of interest, please contact EDM and we will provide this data at no additional cost.

Agency File Date: 11/16/2010

Received by EDM: 11/16/2010

EDM Database Updated: 11/16/2010

Spills List(SPILLS)

The SCDHEC Spills List contains information reported to the department relative to the discharges of pollutants.

Agency File Date: 11/6/2008

Received by EDM: 11/15/2008

EDM Database Updated: 11/23/2008

State NPL Equivalent(STNPL)

The SCDHEC State Priority List (SPL) contains sites where environmental contamination has been confirmed and the State assumes responsibility for the assessment and remediation of the site. This list is considered the State equivalent of the US EPA National Priority List (NPL).

Agency File Date: 11/6/2008

Received by EDM: 11/15/2008

EDM Database Updated: 11/23/2008

Underground/Aboveground Storage Tanks(TANKS)

The SCDHEC Comprehensive Underground Storage Tanks List (TANKS) identifies those facilities or locations that have registered underground storage tanks within the State of South Carolina. Aboveground Tank locations are derived from the SCDHEC GIS program.

Agency File Date: 11/16/2010

Received by EDM: 11/17/2010

EDM Database Updated: 11/19/2010

State Voluntary Cleanup List(VOLCLNUP)

The SCDHEC Voluntary Cleanup Program list contains information on sites where either responsible or non-responsible parties have agreed to perform environmental assessment and/or remediation activities. Some sites included on the Voluntary Cleanup list may also be designated Brownfields sites.

Agency File Date: 2/17/2011

Received by EDM: 2/17/2011

EDM Database Updated: 2/17/2011

Supplemental Databases

Biennial Reporting System(BRS)

The US EPA Biennial Reporting System(BRS) collects data on the generation and management of hazardous waste from Large Quantity Generators and Treatment, Storage and Disposal facilities (TSD's). The data is reported, on even years, by the facilities to state environmental agencies which provide the information to regional and national EPA offices.

Agency File Date: 12/11/2008

Received by EDM: 5/21/2009

EDM Database Updated: 5/25/2009

Facility Registry System(FRS)

The US EPA Facility Registry System (FRS) is a centrally managed database of sites that are regulated by Program Offices of the EPA; such as Air, Water and Waste. The FRS has replaced the Facility Index System (FINDS) list.

Agency File Date: 3/11/2009

Received by EDM: 3/11/2009

EDM Database Updated: 3/12/2009

PCB Activity Data System(PADS)

The USEPA tracks sites that conduct activities relative to the generation, transportation, permitted storage and permitted disposal of PCB's. This information was previously contained in the PCB Activities Database (PADS) and is currently reported using the Notification of PCB Activity Quarterly Reports.

Agency File Date: 8/24/2009

Received by EDM: 9/10/2009

EDM Database Updated: 9/11/2009

Permit Compliance System(PCS)

The US EPA Permit Compliance System (PCS) is a data system to track permit compliance and enforcement at facilities holding National Pollutant Discharge Elimination System (NPDES) permits.

Agency File Date: 8/31/2010

Received by EDM: 11/10/2010

EDM Database Updated: 11/10/2010

RCRA Administrative Action Tracking System(RAATS)

The US EPA RAATS list is a historical RCRA enforcement database that tracked facilities found to be major violators under RCRA. Data entry in this database was discontinued in 1995.

Agency File Date: 8/1/1995

Received by EDM: 8/30/1995

EDM Database Updated: 9/17/1995

Record Of Decisions System(RODS)

The US EPA RODS system documents information relative to site history, community participation, enforcement activities, site characteristics, scope and role of response action, and remedies applied at Superfund (NPL) sites

Agency File Date: 12/28/2009

Received by EDM: 12/30/2009

EDM Database Updated: 1/5/2010

Toxic Release Inventory System(TRIS)

The US EPA TRIS list identifies those facilities that are required to submit annual reports relative to the estimated routine and accidental release of toxic chemicals to the environment, as stipulated under current federal laws.

Agency File Date: 12/11/2009

Received by EDM: 2/11/2010

EDM Database Updated: 2/18/2010

Map Descriptions

American Indian Lands

EDM has obtained American Indian Reservation boundary files from the US Census Bureau and has presented them in a statewide reference map. General location and contact information is also presented in the Table accompanying this map.

Topographic Map

EDM's Topographic Map is derived from Digital Raster Graphic (DRG) data obtained from the US Geological Survey (USGS). A DRG is a raster image created by scanning published paper maps on high-resolution scanners. To display these DRGs within our Geographic Information System (GIS), EDM strips the collar information from each image and assigns control points for matching the image to ground control coordinate values associated with our vector based Street Map data.

FEMA Flood Map

EDM's FEMA Flood Map is a representation of 100-Year and 500-Year floodplain areas as derived from Digital Q3 Flood Data obtained from the Federal Emergency Management Agency (FEMA). The Q3 Flood Data are developed by scanning and vectorizing existing hardcopy Flood Insurance Rate Maps (FIRMs) to create 1) a raster product suitable for viewing or printing and 2) a thematic vector overlay of flood risk areas. The Q3 Flood Data are intended to capture all FIRM data in the raster file, but only certain features in the vector file. EDM uses the vector file to provide a graphic display of the 100-year and 500-year floodplain areas.

Definitions: SFHA-Special Flood Hazard Area COBRA-Coastal Barrier Resources Act

NWI Wetlands Map

EDM's NWI Wetlands Map is a representation of wetland areas as derived from Digital Line Graph (DLG) data obtained from the US Fish and Wildlife Service (FWS) National Wetlands Inventory (NWI) program. The FWS/NWI has the primary responsibility for the mapping and inventory of wetlands within the United States. The NWI produces wetland maps by initially employing photo-interpretation of color-infrared photographs. These photographs often provide distinctive color, texture and pattern features that are characteristic of wetland vegetation and background soils. The mapping process may be further checked and validated through analysis of US Geological Survey (USGS) Topographic maps and Natural Resources Conservation Service (NRCS) Soil Survey maps. In some instances, field reconnaissance may also be an option during the validation process.

APPENDIX C
PROPERTY OWNER INTERVIEW



ALLIANCE CONSULTING ENGINEERS, INC.

POST OFFICE BOX 8147
COLUMBIA, SC 29202-8147

PHONE: (803) 779-2078 FAX: (803) 779-2079

WWW.ALLIANCECE.COM

Phase I Environmental Site Assessment Questionnaire

PROJECT NAME: PHASE I ESA FOR THE EPPS NO. 1 INDUSTRIAL PARK IN
WILLIAMSBURG COUNTY, SOUTH CAROLINA

PROJECT NO.:
10140-45

CLIENT: WILLIAMSBURG COUNTY DEVELOPMENT BOARD

PROJECT ADDRESS: WILLIAMSBURG COUNTY TAX MAP NUMBERS 45-173-016 AND 45-174-132

INTERVIEW VIA: TELEPHONE ☐ IN PERSON ☐ E-MAIL ☒ MAIL ☐

I. Site Visit and Owner Inquiry

Please indicate the appropriate response to the following questions:

Question	Owner			Occupants (If Applicable)			Observed During Site Visit		
	Yes	No	Unk	Yes	No	Unk	Yes	No	Unk
1. Is the property or any adjoining property used for an industrial use?		X					X		
2. To the best of your knowledge, has the property or any adjoining property been used for an industrial use in the past?		X					X		
3. Is the property or any adjoining property used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment, storage, disposal, processing, or recycling facility?		X					X		
4. To the best of your knowledge has the property or any adjoining property been used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment, storage, disposal, processing, or recycling facility?		X					X		

Unk = "Unknown" or "No Response"

PHASE I ESA - QUESTIONNAIREPROJECT NAME: PHASE I ESA FOR THE EPPS NO. 1 INDUSTRIAL PARKADDRESS: NEAR THE INTERSECTION OF US HIGHWAY 52 (WILLIAMSBURG COUNTY HIGHWAY) AND COMMERCE DRIVECLIENT: WILLIAMSBURG COUNTY DEVELOPMENT BOARD

Question	Owner			Occupants (If Applicable)			Observed During Site Visit		
	Yes	No	Unk	Yes	No	Unk	Yes	No	Unk
5. Are there currently, or to the best of your knowledge have there been previously, any damaged or discarded automotive or industrial batteries, or pesticides, paints, or other chemicals in individual containers of greater than 5 gal (19 L) in volume or 50 gal (190 L) in the aggregate, stored on or used at the property or at the facility?		X						X	
6. Are there currently, or to the best of your knowledge have there been previously, any industrial drums (typically 55 gal (208 L) or sacks of chemicals located on the property or at the facility?		X						X	
7. Has fill dirt been brought onto the property that originated from a contaminated site or that is of an unknown origin?		X							X
8. Are there currently, or to the best of your knowledge, have there been previously, any pits, ponds, or lagoons located on the property in connection with waste treatment or waste disposal?		X						X	
9. Is there currently, or to the best of your knowledge has there been previously, any stained soil on the property?		X						X	
10. Are there currently, or to the best of your knowledge, has there been previously, any registered or unregistered storage tanks (above or underground) located on the property?		X						X	
11. Are there currently, or to the best of your knowledge, has there been previously, any vent pipes, fill pipes, or access ways indicating a fill pipe protruding from the ground on the property or adjacent to any structure located on the property?		X						X	
12. Are there currently, or to the best of your knowledge, have there been previously, any flooring, drains, or walls located within the facility that are stained by substances other than water or emitting foul odors?		X						X	

Unk = "Unknown" or "No Response"

PHASE I ESA - QUESTIONNAIREPROJECT NAME: PHASE I ESA FOR THE EPPS NO. 1 INDUSTRIAL PARKADDRESS: NEAR THE INTERSECTION OF US HIGHWAY 52 (WILLIAMSBURG COUNTY HIGHWAY) AND COMMERCE DRIVECLIENT: WILLIAMSBURG COUNTY DEVELOPMENT BOARD

Question	Owner			Occupants (If Applicable)			Observed During Site Visit		
	Yes	No	Unk	Yes	No	Unk	Yes	No	Unk
13. If the property is served by a private well or non-public water system, have contaminants been identified in the well or system that exceed guidelines applicable to the water system or has the well been designated as contaminated by any government environmental/health agency?		X						X	
14. Does the owner or occupant of the property have any knowledge of environmental liens or governmental notification relating to the past or recurrent violations of environmental laws with respect to the property or any facility located on the property?		X						X	
15. Has the owner or occupant of the property been informed of the past or current existence of hazardous substances or petroleum products or environmental violations with respect to the property or any facility located on the property?		X						X	
16. Does the owner or occupant of the property have any knowledge of any environmental site assessment of the property or facility that indicate the presence of hazardous substances or petroleum products on, or contamination of, the property of recommended further assessment of the property?		X						X	
17. Does the owner or occupant of the property know of any past, threatened, or pending lawsuits or administrative proceedings concerning a release or threatened release of any hazardous substance or petroleum products involving the property by any owner or occupant of the property?		X						X	
18. Does the property discharge wastewater on or adjacent to the property other than stormwater into a sanitary sewer system?		X						X	

Unk = "Unknown" or "No Response"

PHASE I ESA - QUESTIONNAIRE

PROJECT NAME: PHASE I ESA FOR THE EPPS NO. 1 INDUSTRIAL PARK

ADDRESS: NEAR THE INTERSECTION OF US HIGHWAY 52 (WILLIAMSBURG COUNTY HIGHWAY) AND COMMERCE DRIVE

CLIENT: WILLIAMSBURG COUNTY DEVELOPMENT BOARD

Question	Owner			Occupants (If Applicable)			Observed During Site Visit		
	Yes	No	Unk	Yes	No	Unk	Yes	No	Unk
19. To the best of your knowledge, have any hazardous substances or petroleum products, unidentified waste materials, tires, automotive or industrial batteries or any other waste materials been dumped above grade, buried and/or burned on the property?		X						X	
20. Is there a transformer, capacitor, or any hydraulic equipment for which there are any records indicating the presence of PCBs?		X						X	

Unk = "Unknown" or "No Response"

II. Government Records and Historical Sources Inquiry

21. Do any of the following Federal government record systems list the property or any property within the circumference of the area noted below:

- | | <u>Yes</u> | <u>No</u> | <u>Unk</u> |
|--|-------------------------------------|-------------------------------------|--------------------------|
| • National Priorities List – within 1.0 mile (1.6 Km)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| • CERCLIS List – within 0.5 mile (0.8 Km)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| • RCRA TSD Facilities – within 1.0 miles (1.6 Km)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

22. Do any of the following state record systems list the property or any property within the circumference of the area noted below:

- List maintained by state environmental agency of hazardous waste sites identified for investigation or remediation that is the state agency equivalent to NPL – within approximately 1.0 miles (1.6 Km)? Yes ☒ No ☐ Unk ☐
- List maintained by state environmental agency of site identified for investigation or remediation that is the state equivalent to CERCLIS – within 0.5 mile (0.8 Km)?
Yes ☐ No ☒ Unk ☐

23. Based upon a review of fire insurance maps or consultation with the local fire department serving the property, all as specified in the guide, are any buildings or other improvements on the property or on an adjoining property identified as having been used for an industrial use or uses likely to lead to contamination of the property? Yes ☐ No ☐ Unk ☒

PHASE I ESA - QUESTIONNAIRE

PROJECT NAME: PHASE I ESA FOR THE EPPS NO. 1 INDUSTRIAL PARK

ADDRESS: NEAR THE INTERSECTION OF US HIGHWAY 52 (WILLIAMSBURG COUNTY HIGHWAY) AND COMMERCE DRIVE

CLIENT: WILLIAMSBURG COUNTY DEVELOPMENT BOARD

III. Execution and Verification of Questionnaire

The preparer of the transaction screen questionnaire must complete and sign the following statement.

This questionnaire was completed by:

Name: Garrett Wine
Title: Engineering Associate
Firm: Alliance Consulting Engineers, Inc.
Address: P.O. Box 8147
Columbia, SC 29202-8147
Phone Number: 803-779-2078
Date: 3-21-2011

If the preparer is different than the user, complete the following:

Name of interviewees:

Interviewee's address:

Interviewee's phone number:

Preparer's relationship to site:

Preparer's relationship to user:

Copies of the completed questionnaire have been filed at: Alliance Consulting Engineers, Inc., P.O. Box 8147, Columbia, SC 29202-8147

Copies of the completed questionnaire have been mailed or delivered to: Williamsburg County Development Board, 85 Aviation Drive, Post Office Box 1132, Kingstree, South Carolina 29556

Preparer represents that to the best of knowledge the above statements and facts are true and correct and to the best of the preparer's knowledge and that no material facts have been suppressed or misstated.

John M. Wine, Agent WCDC
Signature (Owner)

March 21, 2011
Date

N/A
Signature (Occupant, if applicable)

Date

Garrett Wine
Signature (Engineer)

3-21-2011
Date

APPENDIX D

SENIOR PROJECT MANAGER'S RESUME

James W. Frost, II, P.E.
Senior Project Manager

Registrations

Registered Professional Engineer
South Carolina Registration No. 21613

Professional Affiliations

American Society of Civil Engineers (ASCE)
National Society of Professional Engineers (NSPE)

Education

Bachelor of Science in Civil Engineering, 1997
University of South Carolina
Columbia, South Carolina

Awards and Honors

Chi Epsilon National Civil Engineering Honor Society, Member

Experience and Related Projects

July 2004 - Present
Alliance Consulting Engineers, Inc.
Columbia, South Carolina

Serves as Project Manager with responsibilities that include planning and design of site engineering for industrial parks, subdivisions, and commercial developments, which includes water, wastewater, grading, storm drainage, roadway, retention, and sediment pond design from inception through construction. Other responsibilities include producing engineering reports, preparing cost estimates and applying for and obtaining the appropriate variances, permits, easements, etc. for construction and operation of all aspects of site development.

Site Development

Hess Gas Station, Lexington, SC – Project Engineer for Hess Gas Station in Lexington, South Carolina. Work involved site civil design for the less than 2 - acre site, which included, building, parking lot and site feature layout, grading and drainage design, utility design, and permitting per SCDHEC and SCDOT requirements.

Horry County Judicial and Government Complex, Conway, SC – Assistant Project Engineer for the Horry County Judicial and Government Complex in Conway, SC. Provided assistance for building and parking lot layout in an effort to maximize parking and assisted in the storm water and sediment and erosion control design in an effort to comply with local and federal regulations as they pertain to the Clean Water Act. Work included detention pond design and NPDES permitting.

Prototype Urban Elementary Schools, Richland County School District #1, Columbia, South Carolina – Burton-Pack (80,500 S.F. – 700 Students), Carver-Lyon (76,000 S.F. – 500 Students) and Watkins-Nance (80,500 S.F. – 700 Students). Work included site development, which encompassed site layout, grading, drainage, sediment and erosion control and site utilities.

19th Air Support Operations Squadron, Fort Campbell, Kentucky – Project Engineer for 19th Air Support Operations Squadron in Fort Campbell, Kentucky. Work involved the site civil design for the 8-acre site, which included building and parking lot layout in accordance with force protection requirements, grading and drainage design including sediment and erosion control, detention pond design, design of fire and domestic water, sanitary sewer and gas utilities. The project also included heavy and light duty pavement design and obtaining all required permits for land disturbance and utility construction. Similar projects of the same magnitude included:

18th Air Support Operations Group, Pope Airforce Base, North Carolina – 3 ½-acre site

17th Air Support Operations Squadron, Fort Benning, Georgia – 6-acre site which included a sanitary sewer lift station design

15th Air Support Operations Squadron in Fort Stewart, Georgia – 7-acre site which included roadway design

Squadron Operations Facility in Moody Airforce Base, Georgia – 3-acre site

Central Energy Facility, Fort Jackson, South Carolina – Assistant Project Engineer for Fort Jackson Central Energy Facility in Fort Jackson, South Carolina. Project included the design of approximately 10 miles of hot/chilled water lines to feed miscellaneous buildings spread throughout the base. The hot/chilled water lines were designed to run in a concrete channel below grade with removable concrete panels on top. As a way of enhancing the appearance of the base the channels were laid out in a manner to be used as sidewalks for on post pedestrian traffic.

Depot Plant Services Facility, Warner Robins Airforce Base, Georgia – Project Engineer for Depot Plant Services Facility in Warner Robins Airforce Base, Georgia. Work involved the site civil design for the eight-acre site which included building and parking lot layout in accordance with force protection requirements, grading and drainage design including sediment and erosion control, design of fire and domestic water, sanitary sewer, industrial waste and gas utilities. Industrial waste design included a duplex lift station and approximately one-mile of force main. The project also included heavy and light duty pavement design and obtaining all required permits for land disturbance and utility construction.

Force Protection Plan, Fort Bragg, North Carolina – Project Manager of Fort Bragg Force Protection Plan for Fort Bragg, North Carolina. Work involved the planning, design and implementation of a force protection plan during a DELTA scenario for Fort Bragg. Work included design of seven guard shack to be placed at high traffic entrances onto the post. Daily traffic studies were completed to identify areas of high traffic. A plan was designed including, barriers, bollards, landscaping, etc. in an effort to check vehicles prior to entering the post and prevent vehicles from entering undesired locations during a time in which America is under attack or at war. Tasks included strategic layout of guard shacks, roadway widening and design, stormwater and erosion control, utility design and relocation and traffic planning.

Ammo Holding Facility, Fort Benning, Georgia – Project Manager of Fort Benning Ammo Holding Facility in Fort Benning, Georgia. Work involved the management and civil site design of a 5,000 square foot structure to house ammunition. Site design included building and parking lot layout in accordance with force protection requirements, grading and drainage design including sediment and erosion control, detention pond design, design of fire and domestic water, sanitary sewer and electrical utilities. The project also included the design of heavy-duty concrete to support fully loaded army tanks and obtaining all required permits for land disturbance and utility construction.

Renovation of the South Carolina State House, Columbia, South Carolina – Assistant Engineer for Renovation of the South Carolina State House. Work involved site civil design, which included design of new utility systems and analyzing the condition and capability of reusing existing utility systems, site layout and landscaping.

Mathew J. Perry Courthouse and Parking Garage, Columbia, South Carolina – Assistant Engineer for Matthew J. Perry Courthouse and Parking Garage in Columbia, South Carolina. Work involved site civil design, which included layout, grading and drainage in accordance with city, state and federal regulations, utility design and contract administration.

River Banks Zoo Expansion, Columbia, South Carolina – Assistant Engineer for River Banks Zoo Expansion in Columbia, South Carolina. The expansion included the design of a new bird aviary, an African exhibit and a gorilla exhibit. The design included layout, grading, drainage and utilities, which were to be constructed and installed during full operation of the zoo. Tasks included phasing of project development as to not interrupt the everyday operations of the zoo and endanger any of the zoo's habitats.

University of South Carolina 'Colonial Center' Arena, Columbia, South Carolina – Project Engineer for the University of South Carolina Arena in Columbia, South Carolina. Work involved an early site development package and a final site development package for the 60 million-dollar arena. Early site development included site investigation and review of the geotechnical report as it pertained to site development, grading design to prepare for on grade seating (approximately half of the lower bowl seating), drainage and sediment erosion control to comply with SCDHEC NPDES permitting and the Clean Water Act, a ground water collection system, upgrading and relocating existing utilities, as well as, utility design for the new arena. The project scope also included Contract Administration and inspection during all site construction activities, which included, Dynamic Deep Compaction, unsuitable soil removal, embankment fill, storm drainage construction, utility construction and paving.

Solid Waste Management

Continuous Cell Industrial Solid Waste Landfill – Project Engineer and onsite Quality Assurance Officer for an industrial solid waste landfill for construction of continuous cell in Rosemount, Minnesota. Work involved quality assurance and inspection of embankment fill, installation of a three – feet thick clay liner to achieve a design permeability, installation of HDPE liners, installation of leachate removal system and compilation of certifying report.

RCRA Subtitle C Landfill Closure – Quality Assurance/Quality Control testing for RCRA Subtitle C landfill closure in Pinewood, South Carolina. Work involved construction materials testing and inspection of cap fill material, clay liner and HDPE liners.

Landfill Groundwater Assessments

Marlboro County Landfill Groundwater Assessment

Geotechnical Design/Construction Materials Testing

Head Start Center, Saluda, South Carolina – Project Engineer for Head Start Center. Performed the subsurface investigation for the 14,000 square foot facility. Provided recommendations for site preparation, fill material and placement, seismic site class in accordance with the International Building Code (IBC), shallow foundations, slab on grade and pavement sections for both light and heavy-duty traffic.

Newberry County Detention Center Addition, Newberry, South Carolina – Project Manager for Newberry County Detention Center Addition. Work included the subsurface investigation for the one storey, 7,000 square foot Detention Center Addition located in Newberry, South Carolina. Provided recommendations for site preparation, fill placement and compaction, shallow foundations, grade slab construction, seismic site class in accordance with IBC and pavement subgrade construction.

USC Norman J. Arnold School of Public Health, Columbia, South Carolina – Project Manager for USC Norman J. Arnold School of Public Health. Work involved the subsurface investigation for a multiple story, multiple building School of Public Health for the University of South Carolina in Columbia, South Carolina. Work included the coordination of approximately 1,400 feet of standard soil test boring, approximately 80 feet of CPT/SCPT and 25 feet of dilatometer readings. Provided recommendations for site preparation, recycling of construction/demolition debris, fill placement and compaction, pipe bedding and backfill, shallow foundations with settlement analysis, grade slab support and construction, lateral earth pressures for retaining walls, and seismic site class in accordance with IBC.

Lexington Country Club, Lexington, South Carolina – Project Manager for the Lexington Country Club – Clubhouse. Performed subsurface investigation for the 15,000 square foot clubhouse located in Lexington, South Carolina. Work included approximately 100 feet of standard soil test boring. Recommendations were provided for site preparation, fill placement and compaction, shallow foundations, lateral earth pressures for retaining walls, slab on grade support and construction, seismic site class in accordance with IBC and pavement subgrade.

First National Bank, Columbia, South Carolina – Project Manager for First National Bank. Managed the construction/materials testing for the First National Bank on Clemson Road in Columbia, South Carolina.

Fairfield 14-Acre Tract, Fairfield County, South Carolina – Project Manager for Fairfield 14 – Acre Tract. Performed preliminary subsurface investigation for the 14-acre industrial park located in Fairfield County, South Carolina. Work included 50 feet of standard soil test boring. Provided preliminary conclusions regarding site development, which included soil stabilization, suitability of on-site soils for use as structural fill, shallow foundation construction feasibility, seismic site class in accordance with IBC and grade slabs and pavement support.

Dave Lyle Boulevard Extension, Rock Hill, South Carolina – Project Manager for SC Route 122, Dave Lyle Boulevard Extension located in York and Lancaster Counties near Rock Hill, South Carolina. Performed preliminary subsurface investigation for approximately 9 miles of new roadway alignment including cut/fill areas up to 60 feet in depth/height and 12 bridges. Work included approximately 3400 feet of soil test borings, 1900 feet of auger borings and 400 feet of rock coring. Supervised up to four rigs on site and compiled all data into the preliminary report. Preliminary analysis and conclusions included, foundation alternatives including deep and shallow foundations (steel H-piles, drilled shafts and spread footings on rock), earthquake design issues, soil characteristics, cut and fill slope stability assessment, retaining wall design parameters, and pavement design analysis.

Interstate 95 and Interstate 26 Service Road, Orangeburg/Dorchester County, South Carolina – Project Manager for I-95/I-26 Service Road located in Orangeburg and Dorchester Counties in South Carolina. The proposed construction is a frontage road with just over 7 miles of new alignment. The project includes a trestle type bridge over Cow Castle Creek and a possible replacement bridge for Duncan Chapel Road over I-95. The subsurface investigation included approximately 450 feet of hand auger borings and 450 feet of soil test borings. 18"x18" prestressed, precast, concrete piles were analyzed for the bridge foundations. Other recommendations and analysis included, seismic site class definition and other related seismic issues including soil liquefaction and surface rupture, preparation of subgrade and embankments, mucking limits, geogrid stabilization, and pavement recommendations for asphalt and concrete pavements.

US 378 Bridges, Lake City, South Carolina – Project Manager for US 378 Bridges located along US 378 in Lake City, South Carolina. The proposed construction included the replacement of two existing box culverts by two flat slab bridges. The subsurface investigation included four soil test borings at each bridge location. A total of 513.5 feet of soil test borings were conducted. 18"x18" prestressed, precast, concrete piles were analyzed for the bridge foundations. Other recommendations and analysis included, seismic site class definition and other related seismic issues including soil liquefaction, surface rupture and lateral spreading, preparation of subgrade and embankments including fill placement recommendations, and mucking limits.

SC 38 and US 501 – Section 8, Marion/Dillon County, South Carolina – Project Manager for SC 38/US 501 – Section 8 located in Marion and Dillon Counties. Project was completed for Construction and Resource Management – East Region and included the subsurface investigation geotechnical engineering analysis of approximately 5.3 miles of roadway widening and new roadway alignment including a four lane bridge with two spans supported by H-piles and drilled shafts. Analysis included performance of old asphalt roads and design of overlays and full pavement sections based on traffic data provided. Deep foundations were designed for the overpass for both the static and seismic conditions. MSE wall parameters were analyzed, as well as, slope stability at the approach embankments. Recommendations included pile driving, drilled shaft construction, MSE wall construction, pavement section construction, fill placement and mucking limits.

US 76 Bridge Replacement over the Lumber River and Swamp, Marion/Horry County, South Carolina – Project Manager for the US 76 Bridge Replacement over the Lumber River and Swamp located in Marion and Horry Counties. Project was completed for Kimley-Horn and Associates and included the subsurface investigation and geotechnical design of approximately 2 miles of roadway remediation, which included the replacement of two flat slab bridges. The proposed bridge over the Lumber River is approximately 825 feet in length with 75-foot spans and the proposed bridge over the swamp is approximately 280 feet with 70-foot spans. Bridge design followed the "SCDOT – Seismic Design Specifications for Highway Bridges, October 2001 with October 2002 Interim Revisions" and the "ASSHTO LRFD Bridge Design Specifications, Second Edition, 1998". Analysis included design of pavement sections based on traffic data provided. Deep foundations were designed for the both bridges, which included steel H-piles at the abutments and drilled shafts at the interior bents. Slope stability was analyzed for the approach embankments. Recommendations included pile driving, shaft construction, abutment wall construction, pavement section construction, fill placement and mucking limits.

American Eagle Wheel Expansion Facility, York County, South Carolina – Project Manager for the American Eagle Wheel Expansion Facility located in York, South Carolina. Responsibilities included performing the subsurface investigation and geotechnical design for the 100,000 S.F. expansion and managing the Construction Materials Testing services throughout the construction sequence. Geotechnical recommendations were provided for shallow foundations, grade slabs, retaining walls and pavement section requirements. During the construction phase of the project a team of two to three field technicians conducted on-site materials testing services that included earthwork compaction testing, concrete sampling and strength testing, structural steel inspection, pavement subgrade and base course inspection and testing and asphalt sampling. As Project Manager I managed all field activities and reviewed all inspection and testing results to assure required construction specifications for the project were met.

Environmental Site Assessments

Senior Reviewer for Phase I Environmental Site Assessments in conjunction with the American Society for Testing and Materials (ASTM) Specifications for Commercial Real Estate on twenty plus Phase I ESA's with previous engineering firm.

Anderson County – 7-acre Williams Property at Anderson Airport Business Industrial Park for Anderson County

Anderson County – 8-acre Williams Property at Anderson Airport Business Industrial Park for Anderson County

Anderson County – Betsy Tucker Industrial Site for Anderson County

Anderson County – Rogers Industrial Site for Anderson County Economic Development

Chester County – The L&C Tract “L” Industrial Site for the L&C Development Corporation

Chester County – The Chester Technology Park for Chester County Economic Development

Chester County – L&C Tract ‘O’ Industrial Site for Lancaster and Chester Railway Company

Lee County – The I-20 Industrial Center for Lee County Economic Development Alliance

Lexington County – The Saxe Gotha Industrial Park for Lexington County

Lexington County – The Batesburg-Leesville Industrial Park for Lexington County

Marion County – The Marion County Industrial Park for Marion County Development Commission

Marion County – The St. James AME Church Site for McLain & Lee Attorneys at Law

Orangeburg County – International Industrial Park for Orangeburg County Development Commission

Orangeburg County – Bozard Tract at Orangeburg County/City Industrial Park for the Orangeburg County Development Commission

Orangeburg County – John W. Matthews, Jr. Industrial Park for the Orangeburg County Development Commission

Orangeburg County – Sanders Pointe Farm Site for the Orangeburg County Development Commission

Orangeburg County – Carolina Lumber Site for the Orangeburg County Development Commission

Orangeburg County – Five (5) properties to be included in the proposed Western Orangeburg County Industrial Pak for the Orangeburg County Development Commission

Orangeburg County – West Annex Industrial Park for the Orangeburg County Development Commission

Sumter County – Pocatoligo Industrial Park for the Sumter Development Board

Union County – Midway Green Industrial Park for Pacolet Milliken Enterprises, Inc.

Union County – Trakas Industrial Park for the Union County Development Board

Williamsburg County – Williamsburg Cooperative Commerce Centre South for the Williamsburg County Development Board

Employment History

February 2004 – July 2004

Stevens & Wilkinson of South Carolina, Inc.
Columbia, South Carolina

Civil Engineer responsible for all aspects of site development for Commercial, Industrial and Government contracts to include all phases of development including project management, planning, report preparation, design, bidding and award, permitting, and construction administration.

August 2001 – February 2004

S&ME, Inc.
Columbia, South Carolina

Project Manager responsible for all aspects of Geotechnical Design for Commercial and Industrial contracts to include business development, geotechnical recommendations, report preparation and construction materials testing.

July 1998 – August 2001

Stevens & Wilkinson of South Carolina, Inc.
Columbia, South Carolina

Civil Designer for Commercial, Industrial and Government contracts with duties including preparation of construction plans and specifications, report preparation, engineering calculations and permitting.

July 1997 – July 1998

ViroGroup, Inc.
Columbia, South Carolina

Civil Designer for Solid Waste, Commercial and Industrial contracts with responsibilities including QA/QC of landfill construction, report preparation, development of construction plans and specifications, engineering calculations and permitting.