PHASE I ENVIRONMENTAL SITE

ASSESSMENT OF THE

McLENDON YOUNG INDUSTRIAL PARK

FEBRUARY 2014

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McLENDON YOUNG INDUSTRIAL PARK

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1.0 SUMMARY

This *report* is prepared for use by Florence County Economic Development Partnership (FCEDP) and Florence County Economic Development Partnership's affiliates and lenders, and presents the findings of a *Phase I Environmental Site Assessment (ESA)* of the *property*, identified as the McLendon Young Industrial Park located in Florence County, South Carolina. The *property* is located along Young Road (S-21-69), approximately one-half (½)-mile south of the interchange of Interstate 95 (I-95) and Honda Way/Center Road (S-21-83) at Exit 153, and approximately three (3) miles southeast of the Town of Timmonsville, Florence County, South Carolina. The approximately three hundred and four (304)-acre *property* consists of four (4) parcels identified as Florence County Tax Map Number (TMS) 00035-04-011, owned by Jean A. McLendon; TMS 00036-04-001, owned by Eugene P. Warr, Jr. and Robert L. Thomas, Jr.; TMS 00036-04-003, owned by Jane M. Rhoden; and TMS 00056-04-129, owned by Jean A. McLendon. The parcels that comprise the *property* have historically been used for timberland and agricultural purposes. Mr. Joe King, Executive Director of Florence County Economic Development Partnership, authorized and requested that Alliance Consulting Engineers, Inc. conduct a *Phase I ESA* to satisfy the *Landowner Liability Protections* in conjunction with *due diligence* services for the *property* and the Site Certification of the McLendon Young Industrial Park through the South Carolina Department of Commerce Site Certification Program.

Mr. Tyler Gilstrap, E.I.T. of Alliance Consulting Engineers, Inc., conducted a *site reconnaissance* on January 23, 2014 to determine if the *property* is subject to *Recognized Environmental Conditions* (*RECs*). Items observed during the *site reconnaissance* included the general hydraulic and hydrogeologic conditions of the *property* and surrounding areas, a vehicular tour of the vicinity to observe sites identified during the *records review*, and a pedestrian reconnaissance to assist in determining the history of the *property*.

No sites were identified within the standard ASTM search radii and eleven (11) orphan sites were identified in the vicinity of the *property* as a result of the *records review*. Based on the proximity of the facilities in regards to the *property*, the general topography of the site and surrounding areas, and soil characteristics in the vicinity of the *property*, none of the facilities identified during the *records review* are considered *recognized environmental conditions* with regards to the *property*. No items observed during the *site reconnaissance* were identified as *recognized environmental conditions* with regards to the *property*.

2.0 INTRODUCTION

2.1 Purpose

The purpose of this *Phase I ESA* is to determine if the McLendon Young Industrial Park is subject to *recognized environmental conditions*. The *Phase I ESA* has been performed in general conformance with the provisions set forth in the *American Society for Testing and Materials (ASTM) E 2247-08 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process for Forestland or Rural Property*, which was approved on June 1, 2008. An assessment performed in accordance with this standard meets requirements for *All Appropriate Inquiry (AAI)* as per 40 CFR Part 312, and may permit the User to qualify for certain *Landowner Liability Protections (LLPs).* This *Phase I ESA* has been conducted to satisfy the requirements of *AAI* rule as detailed in 40 CFR Part 312.20E. ASTM defines the term, *recognized environmental conditions,* 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 any *hazardous substance* or *petroleum product* into structures on the *property* or into the ground, groundwater, or surface water of the *property*. *RECs* may include *hazardous substances* or *petroleum products* conditions which are in compliance with current regulatory requirements. The term is not intended to include *de minimis* conditions that generally do not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Conditions determined to be *de minimis* are not *recognized environmental conditions*.

2.2 Detailed Scope of Services

The scope of this assessment was restricted to the environmental conditions as outlined in the *ASTM E 2247-08 Standard Practice*. The findings, opinions, and conclusions presented in this *report* are based on information obtained during the *environmental site 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. This assessment does not constitute an *environmental compliance audit*, and does not include an assessment of environmental conditions associated with cultural and historical risks, protected and endangered species, vapor intrusion, or controlled substances. In order to accomplish the stated objectives, the following engineering services were performed:

A. A *site reconnaissance* to the *property* to *visually and/or physically observe* the site conditions relative to environmental concerns;
B. A pedestrian and vehicular reconnaissance of the *property* and surrounding areas to determine if *obvious* adjacent land use might suggest potential environmental concerns;
C. A query of *reasonably ascertainable* environmental records available from state and federal databases;
D. A review of select available documents to aid in assessing the historical and current uses of the *property* and *adjoining properties*;
E. A brief, qualitative hydraulic evaluation of the *property* and vicinity to characterize the area drainage patterns; and
F. Interviews with the *Key Site Manager*, a person identified by the *owner* or *operator* of the *property* with good knowledge of the uses and physical characteristics of the *property* and a representative of the prospective *user*.

This *Phase I Environmental Site Assessment* and its findings are limited to the *property*. No investigations or assessments of *adjoining properties* were included within the scope of this *Phase I ESA*.

2.3 Significant Assumptions

- Data obtained from the public records is accurate and current;
- Groundwater flows follow the general topography of the land surface; and
- Information gathered from interviews was given in *good faith* and is based on *actual knowledge.*

2.4 Limitations and Exceptions

The practice of completing a *Phase I ESA* is intended to permit a *user* to satisfy one (1) of the requirements to qualify for the *Landowner Liability Protections (LLPs)* that constitutes *all appropriate inquiry* into the previous ownership and uses of the *property* consistent with good commercial or customary practice. As such, *ASTM E 2247-08* seeks to reduce, but not eliminate, uncertainty regarding *recognized environmental conditions* in connection with the *property*. Further, *all 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.

The findings, opinions, and conclusions presented in this *report* are based on *reasonably ascertainable* information, and are representative of the conditions of the *property* at the time of the evaluation. It is important to note 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 time frame of the project schedule. In some instances, the further review of information and/or additional *interviews* of other individuals cannot be obtained within the required timeline for completion.

2.5 Special Terms and Conditions

This *report* is prepared for the use of Florence County Economic Development Partnership and Florence County Economic Development Partnership's affiliates and lenders, and presents the findings of a *Phase I Environmental Site Assessment* of the McLendon Young Industrial Park in Florence County, South Carolina. Any use, reuse, or adaptation of this *environmental site assessment* by other parties will be at such parties' sole risk and without liability or legal exposure to Alliance Consulting Engineers, Inc. Furthermore, other parties shall, to the fullest extent permitted by law, indemnify and hold harmless Alliance Consulting Engineers, Inc. from all claims, damages, losses, and expenses, including attorney's fees resulting from the misuse of or alterations to the data contained within the *environmental site assessment.*

3.0 SITE DESCRIPTION

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 Florence County dated 2005. The Aerial Map is derived from the South Carolina Department of Natural Resources (SCDNR) Digital Orthophoto Quarter-Quadrangles (DOQQ) Archive for Sardis Southeast and Northeast, South Carolina dated 2006. The Topographic Map is derived from the SCDNR, United States Geological Survey's (USGS) Quad Maps for Sardis, South Carolina dated 1999, and Timmonsville, South Carolina dated 1986. The Soils Map is derived from the United States Department of Agriculture Natural Resources Conservation Service's (USDA-NRCS) Florence County Soils Survey, Sheets 14, 15, 24, 25, 35, and 36, dated 1974. The FEMA Flood Map is derived from the FEMA Flood Map Catalog; Panel Nos. 120D and 235D, dated 2004. The National Wetlands Inventory (NWI) Map is obtained from the United States Fish and Wildlife Service Online Mapper.

3.1 Location and Legal Description

The approximately three hundred and four (304)-acre *property* is located along Young Road (S-21-69), approximately one-half (½)-mile south of the interchange of Interstate 95 (I-95) and Honda Way/Center Road (S-21-83) at Exit 153 off of I-95, and approximately three (3) miles southeast of the Town of Timmonsville, Florence County, South Carolina. The *property* is comprised of four (4) parcels defined as Florence County Tax Map Numbers (TMS) 00035-04-011, 00036-04-001, 00036-04-003, and 00056-04-129. TMS 00035-04-011 and 00056-04-129 are currently owned by Jean A. McLendon; TMS 00036-04-001 is currently owned by Eugene P. Warr, Jr. and Robert L. Thomas, Jr.; and TMS 00036-04-003 is currently owned Jane M. Rhoden.

PHASE I ESA OF THE McLENDON YOUNG INDUSTRIAL PARK FLORENCE COUNTY, SOUTH CAROLINA VICINITY MAP

NORTH

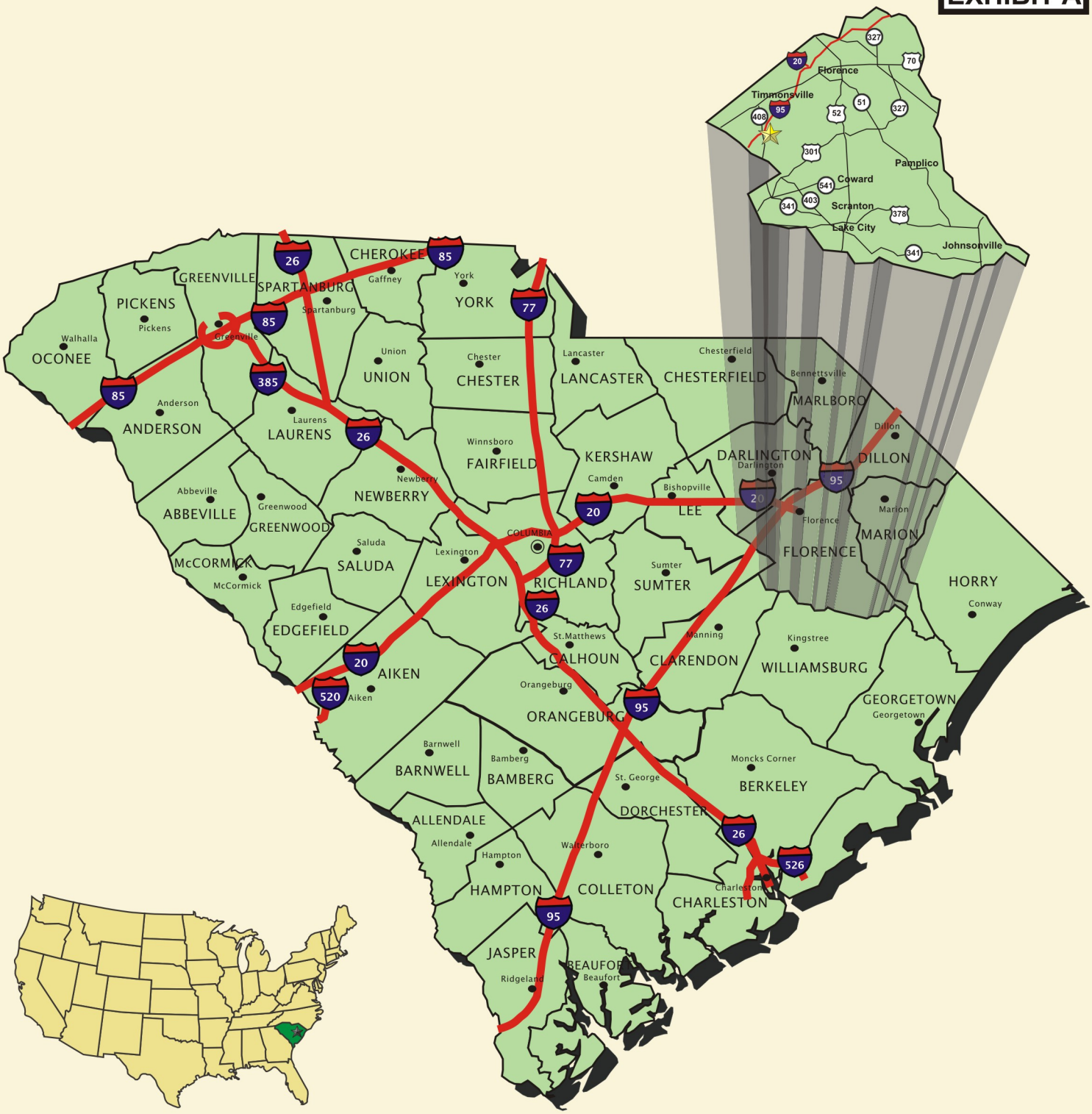
FCEDP
Global Reach with a Southern Touch

+/- 304 Acres

ALLIANCE CONSULTING ENGINEERS
10 YEARS OF EXCELLENCE

PREPARED BY:
ALLIANCE CONSULTING ENGINEERS, INC.
MARCH 2014

EXHIBIT A



PHASE I ESA OF THE McLENDON YOUNG INDUSTRIAL PARK FLORENCE COUNTY, SOUTH CAROLINA SITE LOCATION MAP

FCEDP
Global Reach with a Southern Touch

NORTH

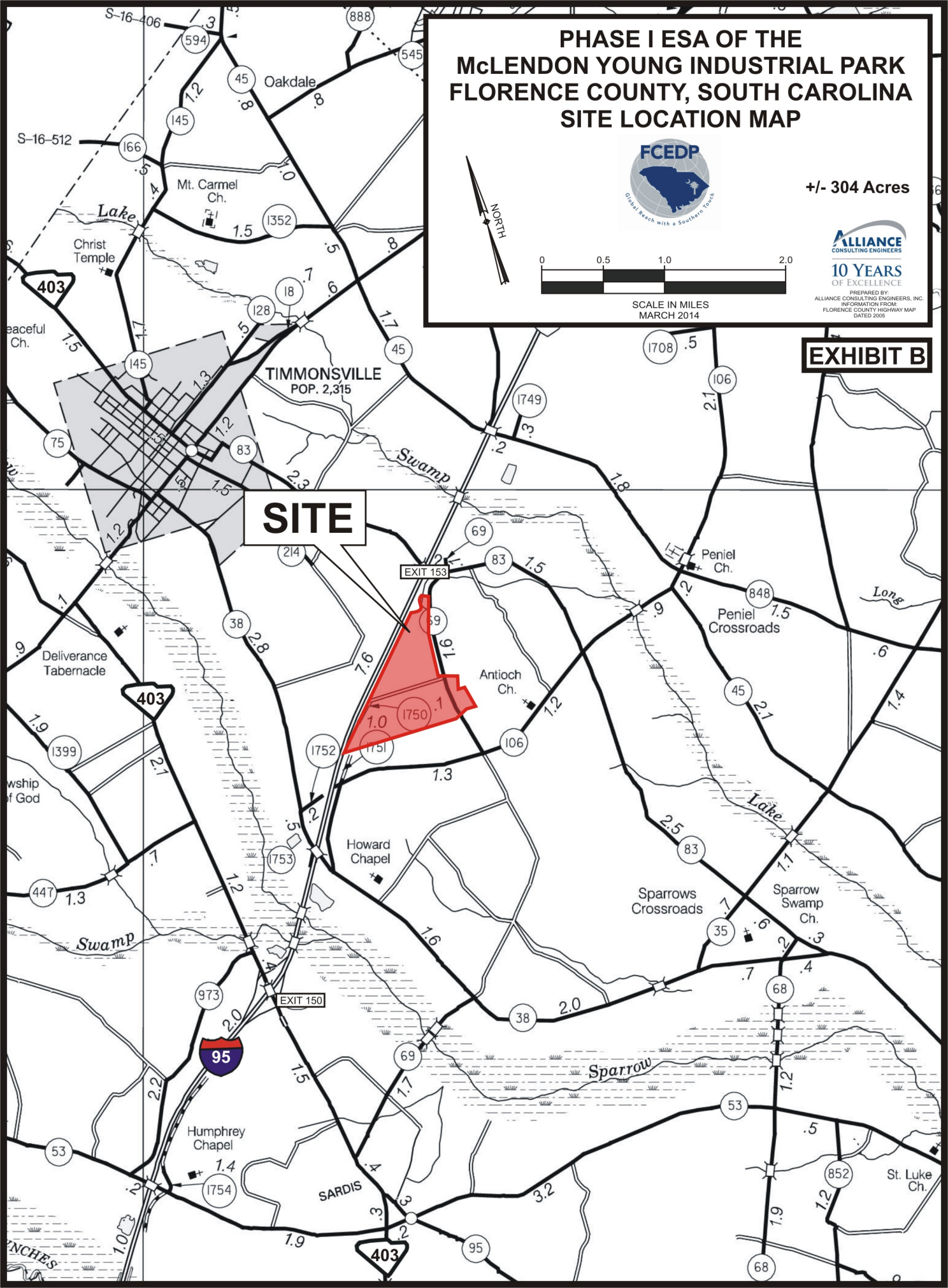
0 0.5 1.0 2.0
SCALE IN MILES
MARCH 2014

+/- 304 Acres

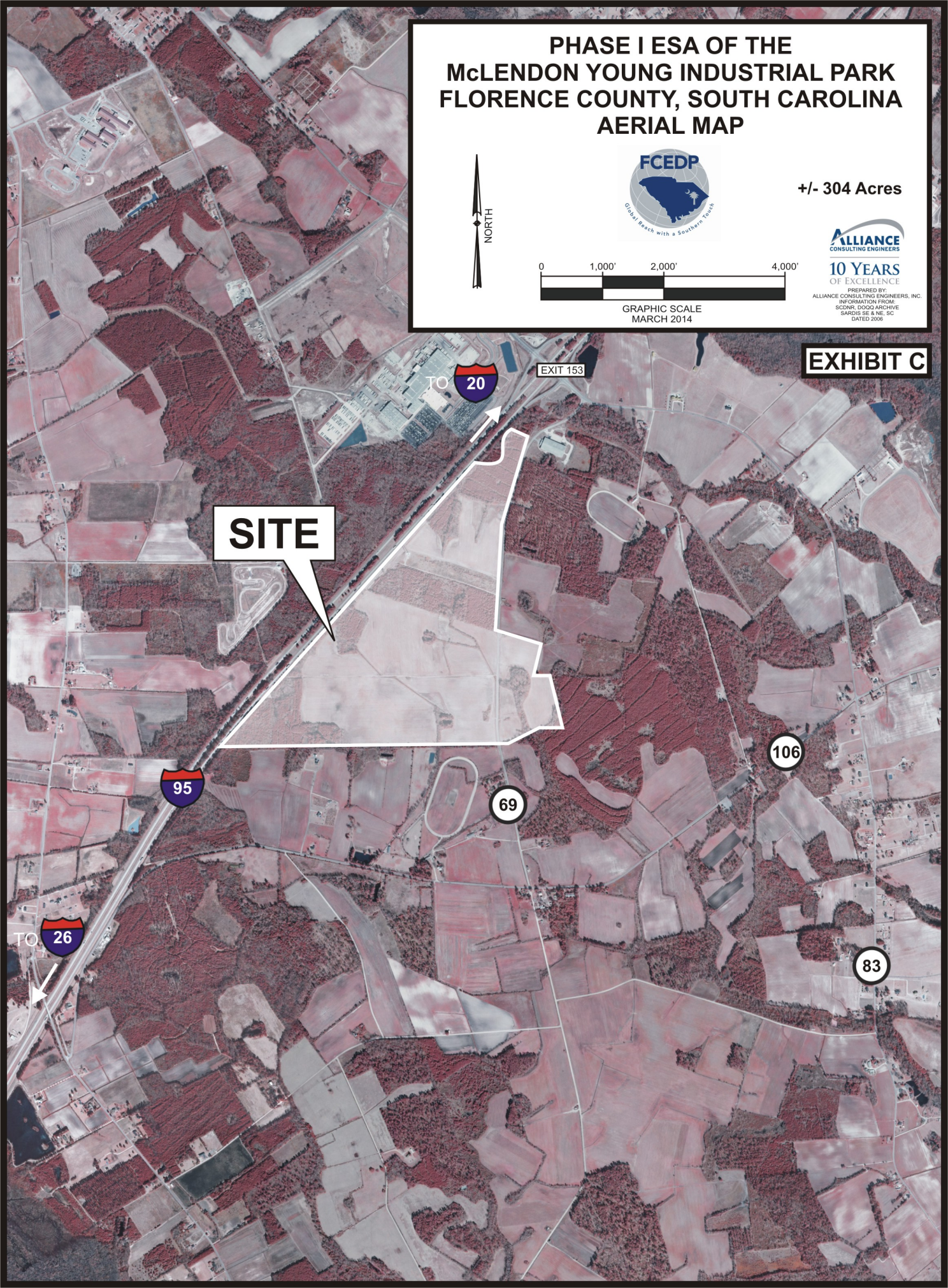
ALLIANCE CONSULTING ENGINEERS
10 YEARS OF EXCELLENCE

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

EXHIBIT B



PHASE I ESA OF THE McLENDON YOUNG INDUSTRIAL PARK FLORENCE COUNTY, SOUTH CAROLINA AERIAL MAP



PHASE I ESA OF THE McLENDON YOUNG INDUSTRIAL PARK FLORENCE COUNTY, SOUTH CAROLINA TOPOGRAPHIC MAP

FCEDP
Global Reach with a Southern Touch

+/- 304 Acres

NORTH

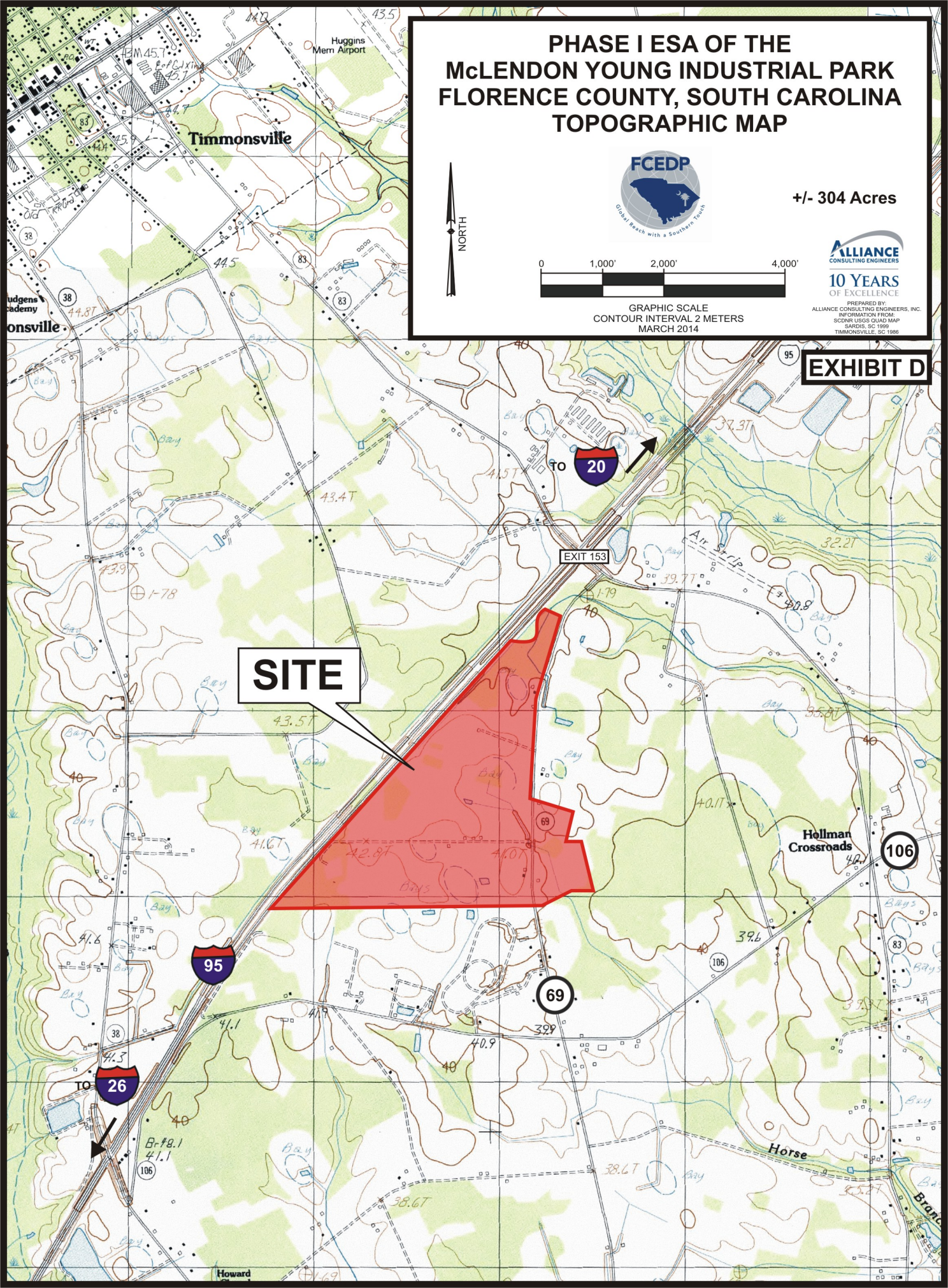
0 1,000' 2,000' 4,000'

GRAPHIC SCALE
CONTOUR INTERVAL 2 METERS
MARCH 2014

ALLIANCE CONSULTING ENGINEERS
10 YEARS OF EXCELLENCE

PREPARED BY:
ALLIANCE CONSULTING ENGINEERS, INC.
INFORMATION FROM:
SCDNR USGS QUAD MAP
SARDIS, SC 1999
TIMMONSVILLE, SC 1986

EXHIBIT D



PHASE I ESA OF THE McLENDON YOUNG INDUSTRIAL PARK FLORENCE COUNTY, SOUTH CAROLINA SOILS MAP

FCEDP

Global Reach with a Southern Touch

+/- 304 Acres

NORTH

0 1,000' 2,000' 4,000'

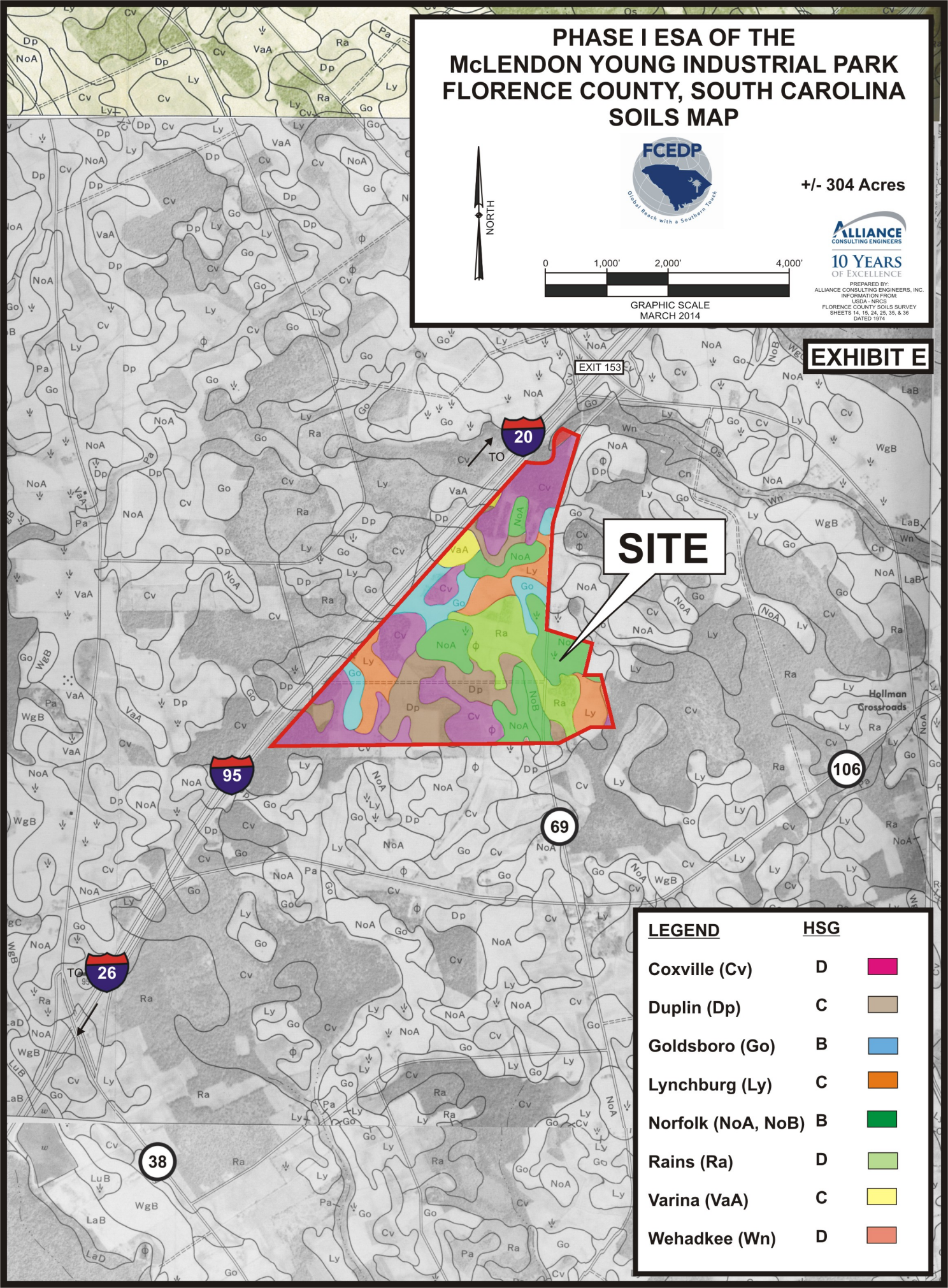
GRAPHIC SCALE
MARCH 2014

ALLIANCE CONSULTING ENGINEERS

10 YEARS OF EXCELLENCE

PREPARED BY:
ALLIANCE CONSULTING ENGINEERS, INC.
INFORMATION FROM:
USDA - NRCS
FLORENCE COUNTY SOILS SURVEY
SHEETS 14, 15, 24, 25, 35, & 36
DATED 1974

EXHIBIT E



LEGEND	HSG
Coxville (Cv)	D
Duplin (Dp)	C
Goldsboro (Go)	B
Lynchburg (Ly)	C
Norfolk (NoA, NoB)	B
Rains (Ra)	D
Varina (VaA)	C
Wehadkee (Wn)	D

PHASE I ESA OF THE McLENDON YOUNG INDUSTRIAL PARK FLORENCE COUNTY, SOUTH CAROLINA FEMA FLOOD MAP

FCEDP
Global Reach with a Southern Touch

+/- 304 Acres

NORTH

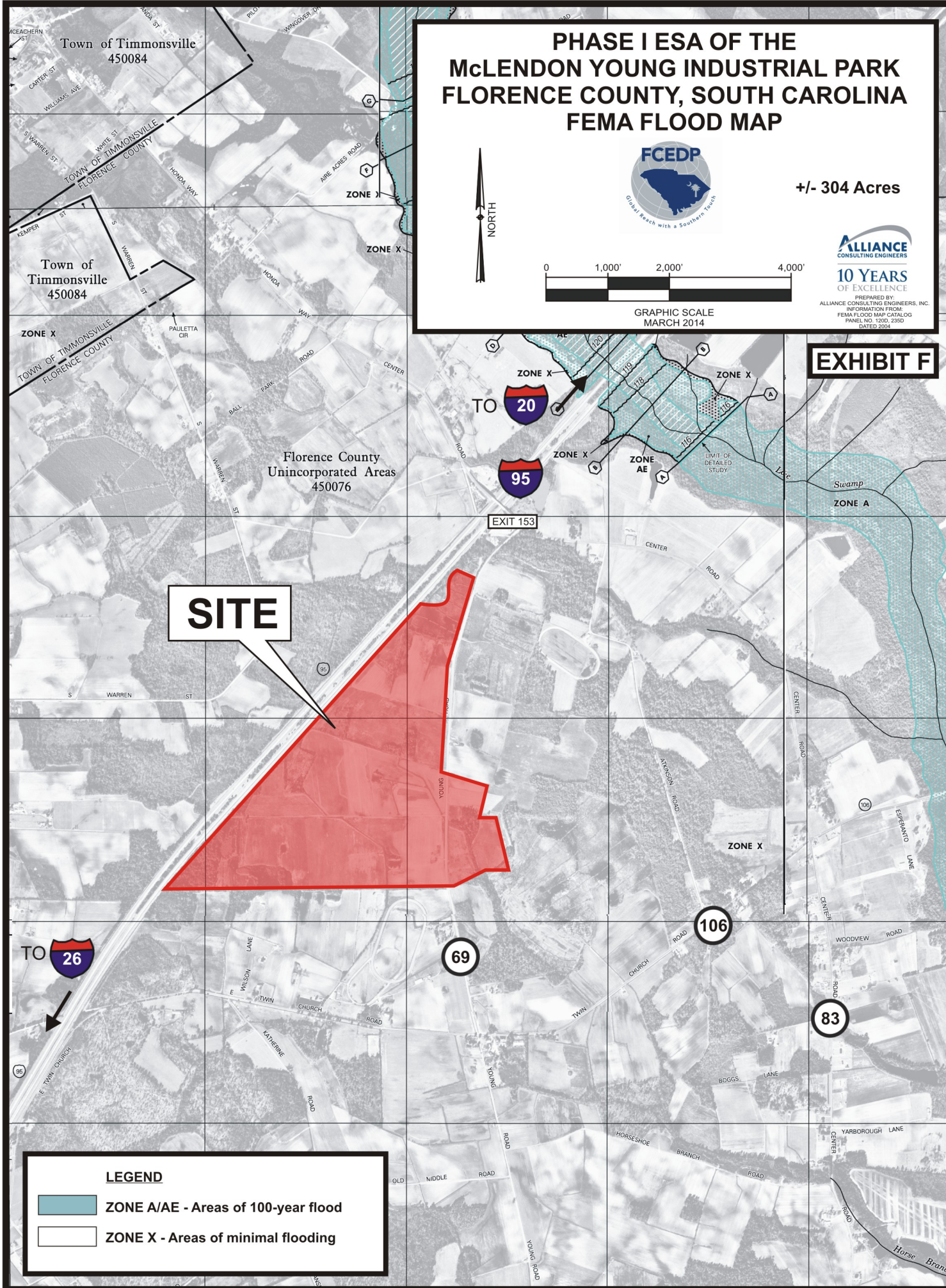
0 1,000' 2,000' 4,000'

GRAPHIC SCALE
MARCH 2014

ALLIANCE CONSULTING ENGINEERS
10 YEARS OF EXCELLENCE

PREPARED BY:
ALLIANCE CONSULTING ENGINEERS, INC.
INFORMATION FROM:
FEMA FLOOD MAP CATALOG
PANEL NO. 120D, 235D
DATED 2004

EXHIBIT F



PHASE I ESA OF THE McLENDON YOUNG INDUSTRIAL PARK FLORENCE COUNTY, SOUTH CAROLINA NATIONAL WETLANDS INVENTORY (NWI) MAP

FCEDP

Global Reach with a Southern Touch

+/- 304 Acres

NORTH

0 1,000' 2,000' 4,000'

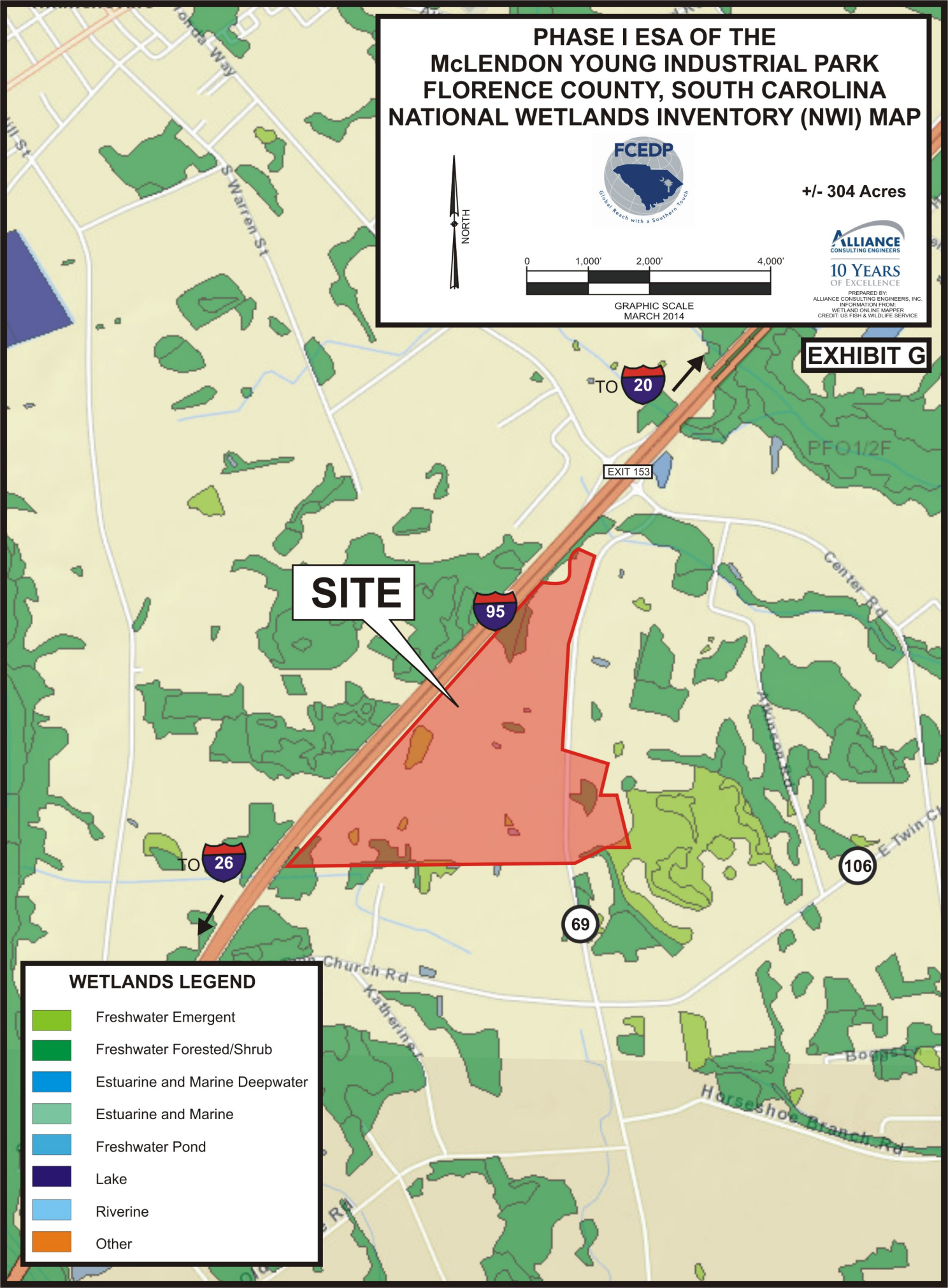
GRAPHIC SCALE
MARCH 2014

ALLIANCE CONSULTING ENGINEERS

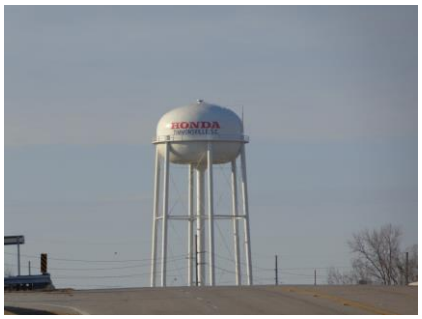
10 YEARS OF EXCELLENCE

PREPARED BY:
ALLIANCE CONSULTING ENGINEERS, INC.
INFORMATION FROM:
WETLAND ONLINE MAPPER
CREDIT: US FISH & WILDLIFE SERVICE

EXHIBIT G



3.2 Site and Vicinity General Characteristics



The McLendon Young Industrial Park is located approximately fifteen (15) miles southwest of the City of Florence, Florence County, South Carolina, and approximately seventy-five (75) miles east/northeast of the Capitol City of Columbia, Richland County, South Carolina. Honda of South Carolina Manufacturing, Inc. owns and operates an all-terrain vehicle (ATV) manufacturing facility approximately one (1) mile north/northwest of the McLendon Young Industrial Park. The *property* is bound to the west by Interstate 95 (I-95), agricultural land, and the Honda ATV manufacturing facility; to the north by timberland; to the east by Young Road (S-21-69), commercial property utilized as a Best One Tire & Service facility, and land used for agricultural purposes and timberland; and to the south by agricultural land and *dwellings*. Young Road is a two (2)-lane paved roadway that provides access to the *property*, which is accessible via Exit 153 on I-95, and Honda Way/Center Road (S-21-83). Honda Way/Center Road is a five (5)-lane paved roadway with a two (2)-way left turn lane. The *property* encompasses approximately three-hundred and four (304) acres.

3.3 Current Site Use

The *property* consists primarily of open areas, irrigation ditches, and excavated ponds used for agricultural purposes. The *property* is also comprised of areas of timberland and jurisdictional wetlands. A cell tower, owned and operated by American Tower Corporation, is located on the western central portion of the *property*, and a twenty (20)-foot access easement with an unpaved road traverses the central portion of the *property* to provide access to the cell tower from Young Road. Overhead power lines traverse the *property*, and extend along Young Road, and underground telecommunications lines, fiber optic cable, and water lines extend along Young Road. Various photographs of the *property* are presented in Appendix A.

3.4 Past Site Use and Ownership

Information gathered from reviews of Florence County Tax Maps, recorded deeds and plats, and personal *interviews* indicates that the *property* has historically been utilized for agricultural purposes and timberland. The *reasonably ascertainable* ownership histories of the parcels identified as Florence County Tax Map Numbers 00035-04-011, 00036-04-001, 00036-04-003, 00056-04-129 are presented below.

Florence County Tax Map Number 00035-04-011 (Approximately 47.07 Acres)

October 25, 2012: Jean A. McLendon acquires the *property* from Jane M. Rhoden;

September 26, 2012: Jean A. McLendon and Jane M. Rhoden acquire the *property* from JoAn M. Conner;

April 24, 2003: Jane M. Rhoden, JoAn M. Conner, and Jean A. McLendon acquire a portion of the *property* from Geneva A. McLendon;

February 8, 2002: Jane M. Rhoden, JoAn M. Conner, and Jean A. McLendon acquire a portion of the *property* from Geneva A. McLendon;

April 25, 2001: Jane M. Rhoden, JoAn M. Conner, and Jean A. McLendon acquire a portion of the *property* from Geneva A. McLendon;

March 3, 2000: Jane M. Rhoden, JoAn M. Conner, and Jean A. McLendon acquire a portion of the *property* from Carol Holcomb;

February 24, 2000: Jane M. Rhoden, JoAn M. Conner, and Jean A. McLendon acquire a portion of the *property* from George Rhoden;

February 21, 2000: Jane M. Rhoden, JoAn M. Conner, and Jean A. McLendon acquire a portion of the *property* from Steven H. Coe;

February 15, 2000: Jane M. Rhoden, JoAn M. Conner, and Jean A. McLendon acquire a portion of the *property* from Anna C. Coe;

February 11, 2000: Jane M. Rhoden, JoAn M. Conner, and Jean A. McLendon acquire a portion of the *property* from Richard E. Conner;

January 7, 2000: Jane M. Rhoden, JoAn M. Conner, and Jean A. McLendon acquire a portion of the *property* from Geneva A. McLendon;

December 24, 1999: George Rhoden, Carol Holcomb, Richard E. Conner, Anna C. Coe, and Steven H. Coe acquire a portion of the *property* from Geneva A. McLendon;

March 23, 1980: Geneva A. McLendon (½ interest), JoAn M. Conner ($^1/_6$ interest), Jean A. McLendon ($^1/_6$ interest), Jane M. Rhoden ($^1/_6$ interest) acquire the *property* from Ralph D. McLendon (deceased).

Florence County Tax Map Number 00036-04-001 (Approximately 38.47 Acres)

June 18, 1992: Eugene P. Warr, Jr. and Robert L. Thomas, Jr. acquire the *property* from Cleo A. Young, Jr., Shady H. Young, Clarence Lee Atkinson, III, and Anthony Cleo Atkinson.

Florence County Tax Map Number 00036-04-003 (Approximately 185.28 Acres)

October 25, 2012: Jane M. Rhoden acquires the *property* from Jean A. McLendon;

September 26, 2012: Jean A. McLendon and Jane M. Rhoden acquire the *property* from JoAn M. Conner;

June 14, 2005: Jean A. McLendon, JoAn M. Conner, and Jane M. Rhoden acquire the *property* from Geneva A. McLendon (deceased);

March 23, 1980: Geneva A. McLendon (½ interest), JoAn M. Conner ($^1/_6$ interest), Jean A. McLendon ($^1/_6$ interest), Jane M. Rhoden ($^1/_6$ interest) acquire the *property* from Ralph D. McLendon (deceased).

Florence County Tax Map Number 00056-04-129 (Approximately 32.68 Acres)

October 25, 2012: Jean A. McLendon acquires the *property* from Jane M. Rhoden;

September 26, 2012: Jean A. McLendon and Jane M. Rhoden acquire the *property* from JoAn M. Conner;

June 14, 2005: Jean A. McLendon, JoAn M. Conner, and Jane M. Rhoden acquire the *property* from Geneva A. McLendon (deceased);

March 23, 1980: Geneva A. McLendon (½ interest), JoAn M. Conner ($^1/_6$ interest), Jean A. McLendon ($^1/_6$ interest), Jane M. Rhoden ($^1/_6$ interest) acquire the *property* from Ralph D. McLendon (deceased).

3.5 Adjoining Property Uses

Wachovia Bank N.A., as Trustee owns land adjacent to the northern *property* boundary that is used for timberland. Industrial Properties, Inc. owns land adjacent to the northeastern *property* boundary that is utilized as a Best One Tire & Service facility. *Adjoining properties* along the eastern, southern, and western property boundaries are used for timberland and agricultural purposes. *Dwellings* are located on *adjoining property* along the southern *property* boundary. Honda of South Carolina Manufacturing, Inc. owns land adjacent to the *property* along the western boundary that is used for manufacturing purposes. Twelve (12) properties are located adjacent to the *property*, and information for the *adjoining properties* can be found in Table 1.

TABLE 1 - ADJOINING PROPERTIES

Tax Map No.	Acreage	Property Owner	Boundary Direction
00035-04-042	5.03	Wachovia Bank N.A., as Trustee	North
00056-04-060	20.02	Industrial Properties, Inc.	East
00056-04-028	62.00	JBJ Associates, LP	East
00056-04-021	62.70	Carolyn S. Fowler, Et Al	East
00056-04-064	153.33	Anthony Cleo Atkinson	Southeast
00036-04-028	44.63	Anthony Cleo Atkinson	South
00036-04-005	67.00	Robert McKinney Lawhorn	South
00036-04-029	28.64	Thomas V. & Judy L. Jones	South
00036-04-007	28.00	Helen S. Morris	South
00036-04-016	53.78	Sandra Stokes Blackwell & Perry H. Stokes	West
00036-04-017	54.27	Van Doriety	West
00036-04-002	628.33	Honda of SC Manufacturing, Inc.	West

3.6 Drainage

Surface and subsurface drainage is often of interest during an *Environmental Site Assessment* because it provides an indication of the direction in which contaminants could potentially be transported by surface waters or groundwater. Based upon a review of Florence County's FEMA Flood Map (Exhibit F), it appears that the *property* is located in Zone X, which designates areas of minimal flooding. A review of the United States Department of the Interior's National Wetlands Inventory (NWI) Map (Exhibit G) indicates there are potential freshwater emergent as well as freshwater forested/shrub wetland areas in various locations on the *property*.

Per the Florence County Soil Survey (Exhibit E), the *property* is comprised of Coxville (Cv) series, Duplin (Dp) series, Goldsboro (Go) series, Lynchburg (Ly) series, Norfolk (NoA, NoB) series, Rains (Ra) series, Varina (VaA) series, and Wehadkee (Wn) series soils. Coxville series soils are poorly drained soils with moderately slow permeability and a ponded or slow runoff rate in Hydrologic Soil Group (HSG) D. Duplin series soils are moderately well drained soils with moderately slow and slow permeability and a slow runoff rate in HSG C. Goldsboro series soils are moderately well drained soils with moderate permeability and a slow to medium runoff rate in HSG B. Lynchburg series soils are poorly drained soils with moderate permeability and a slow runoff rate in HSG C. Norfolk series soils are well drained soils with moderate permeability in HSG B. Rains series soils are poorly drained soils with moderate permeability and a slow runoff rate in HSG D. Varina series soils are well drained soils with a moderate permeability in the upper part of the subsoil and a slow permeability in the lower part and a slow to moderate runoff rate in HSG C. Wehadkee series soils are poorly drained soils with moderate permeability and a very slow runoff rate in HSG D.

The *property* is comprised of mild to negligible slopes. 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. A USGS Topographic Map (Exhibit D) was used to characterize suspected drainage patterns on the *property*. Based on the topography of the *property*, it is believed that the groundwater and stormwater will generally flow radially from areas of higher elevation on the western central portion of the *property* towards jurisdictional wetland areas on the southwestern portion of the *property*, and non-jurisdictional drainage ditches and excavated ponds located throughout the *property*. Stormwater drains by surface runoff from the *property*, and is collected by non-jurisdictional drainage ditches that convey stormwater off-site southeast towards Horse Branch via an unnamed tributary, and northeast towards Lake Swamp via an unnamed tributary.

4.0 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 Resources, Inc. (EDR), to query the environmental regulatory lists available through the USEPA and the SCDHEC for regulated sites within the recognized ASTM search radii from the *property* boundary. A detailed list of database acronyms are included in the environmental data reports, which are presented in their entirety as Appendix B.

No sites were identified within the standard ASTM search radii of the *property* boundary. There are eleven (11) orphan 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 *property* or do not have zip code or address data available. Table 2 contains these sites.

TABLE 2 - ORPHAN SITES	
SITE OR FACILITY	**LISTING**
Cartersville Grocery	UST
Florence County Landfill	RCR
Fred Anderson Station	UST
Gregg's Grocery	UST
Lake Swamp Grocery	GWCI, LUST, UST, FINDS, RCR
W.M. Greene & Son	GWCI, LUST, UST
Agnes Hill Grocery	GWCI, LUST, UST
Don & G.K. Young	FINDS
Transmission Repair Shop	LUST, UST
Stuckey's Pecan Shoppe	GWCI, LUST, UST, FINDS, RCR
Cusaac's Cash & Carry	LUST, UST

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 substances* and/or *petroleum products*.

In addition to the *records review*, EDR completed an Aerial Photo Decade Package, a Historical Topographic Map Report, a Certified Sanborn Map Report, and a City Directory Abstract for the *property*. Historical *aerial photographs* documenting the uses of the *property* for 1957, 1961, 1975, 1977, 1989, 1994, 1999, 2005, 2006, 2009, and 2011 were included within the report. The *property* appears to have historically been comprised of agricultural land and woodlands. Timbering operations appear to have been continuously conducted in the wooded areas of the *property* in the Aerial Photo Decade Package. *Dwellings* appear on the northern and southern portions of the *property* along Young Road (S-21-69) until the image dated 1999. The cell tower first appears on the central portion of the *property* in the image dated 1999. Interstate 95 first appears to extend along the western *property* boundary in the image dated 1975. The southernmost area of development for the Honda ATV manufacturing facility first appears in the imaged dated 1999. The Best One Tire facility first appears on *adjoining property* in the image dated 1999.

The Certified Sanborn Map Report for the *property* completed by EDR indicated that *fire insurance maps* were not available for the *property*. The Historical Topographic Map Report includes topographic data collected in 1940, 1945, 1983, and 1986 of the *property*. The City Directory Image Report for the *property* completed by EDR provides occupancy information obtained via Cole Information Services for addresses located along Honda Way/Center Road (S-21-83) for 2013, 2008, 2003, and 1999. The City Directory Image Report did not provide occupancy or address information for the *property*.

ASTM E 2247-08 states that all *obvious* uses of the *property* shall be identified from the present, back to the *property*'s first developed use, or back to 1940, whichever is earlier. A review of *standard historical sources* at less than approximately five (5) year intervals is not required by *ASTM E 2247-08*. The standard also states that if the specific use of the *property* appears unchanged over a period of longer than five (5) years, then it is not required to research the use of the *property* during that time. *Standard historical sources* regarding the historical uses of the McLendon Young Industrial Park at five (5) year intervals were not

available at the time of preparation of this *report*, which constitutes a *data failure*. The standard states that historical research is complete when a *data failure* is encountered. A *data failure* is not uncommon when trying to determine the uses of the *property* at five (5) year intervals back to the first developed use, or back to 1940, whichever is earlier. Based on *interviews* with the *Key Site Manager* and representative of the *user*, as detailed in Section 6.0 of this *report*, the McLendon Young Industrial Park has historically been used for agricultural purposes and timberland. Information obtained from the *standard historical sources* consulted during the *records review* confirm this. Therefore, the *data failure* does not appear to significantly impact the ability of the *environmental professional* to identify *recognized environmental conditions* with regards to McLendon Young Industrial Park. This *data failure* does not constitute a significant *data gap*.

5.0 SITE RECONNAISSANCE

5.1 Methodology and Limiting Conditions

Mr. Tyler Gilstrap, E.I.T. of Alliance Consulting Engineers, Inc. performed a *site reconnaissance* of the *property* on January 23, 2014. The *property* was observed by traversing the perimeter and interior of the *property*. The reconnaissance involved viewing *adjoining properties* and structures from publicly accessible areas. Observation of nearby properties was limited to areas visible in the line of sight from public roadways. A vehicular tour of the area was made to confirm the locations of facilities listed by regulatory agencies and to verify nearby land use.

5.2 Exterior Observations

Exterior conditions or items that were observed are depicted in Table 3.

TABLE 3 - OBSERVED EXTERIOR CONDITIONS OR ITEMS

Conditions or Items		Observed	If yes, describe
a.	aboveground storage tanks	No	
b.	*underground storage tanks*	No	
c.	pipelines	Yes	Overhead power lines traverse the *property*, and extend along Young Road (S-21-69). Underground telecommunications lines, fiber optic cable, and water lines extend along Young Road adjacent to the *property*. Fiber optic cable appurtenances observed near cell tower on central portion of the *property*. Wastewater pump station located north of the *property*, but not on *adjoining property*.
d.	damaged/leaking transformers	No	
e.	surface impoundment/holding ponds	Yes	Excavated, non-jurisdictional ponds located on the central and southern portions of the *property*.
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	

TABLE 3 - OBSERVED EXTERIOR CONDITIONS OR ITEMS (CONTINUED)			
	Conditions or Items	**Observed**	**If yes, describe**
l.	stained or discolored soil	No	
m.	distressed/discolored vegetation	No	
o.	stored substances/*drums*/containers/vats	Yes	Several containers of *petroleum products* (hydraulic oil) observed in the area of timbering operations on the southwestern portion of the *property*.
p.	spray rigs/tankers/mobile storage tanks	Yes	Heavy-duty equipment associated with timbering operations was observed on the southwestern portion of the *property*.
q.	marshes/low lying wetlands	Yes	
r.	air emission facilities	No	

5.3 Interior Observations

No structures were located on the *property* at the time of this *ESA*; therefore, no interior observations were made during the *site reconnaissance*.

6.0 INTERVIEWS

On April 28, 2014, Alliance Consulting Engineers, Inc. conducted an *interview* with Mr. Joe W. King, Economic Development Director of Florence County Economic Development Partnership, to determine knowledge or experience with the *property* that may be pertinent to the *environmental professional*. Mr. King, the *Key Site Manager* representing the owner of the *property*, and representing the *user* of this *Phase I ESA*, indicated that to his knowledge and belief there were currently no known nor have 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 *hazardous substances* or *petroleum products* on the *property*. Mr. King did not have knowledge pertaining to *activity and use limitations* for the *property* or any *obvious* indicators that point to the presence or likely presence of contamination at the *property*. Mr. King had no additional knowledge of *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* outside of the items observed by Mr. Gilstrap during the *site reconnaissance*. The Questionnaire and User Questionnaire completed by Mr. King have been included in Appendix C.

Alliance Consulting Engineers, Inc. attempted to conduct an *interview* with a representative of the Sardis-Timmonsville Fire Department to inquire about the fire history of the *property*, as well as to determine additional information regarding releases of *hazardous substances* or *petroleum products* at the *property*. However, a representative of the Fire Department with *actual knowledge* of the history of the *property* was not able to be reached at the time of this *Phase I ESA*. It is the opinion of the *environmental professionals* that this does not constitute a significant *data gap*.

7.0 FINDINGS AND OPINIONS

The sites identified during the *records review* are either located downgradient from the *property*, lack sufficient records indicating releases of *hazardous substances* or *petroleum products,* or are not close enough in the proximity to the *property* to believe that adverse impacts have leeched to the *property* via the ground, groundwater, or surface water. Based on the available information, these sites are not considered to contain *recognized environmental conditions* with regards to the *property*.

Overhead power lines were observed to traverse the *property*, and extend along Young Road (S-21-69), which traverses the southeastern portion of the *property*, and extends along the eastern *property* boundary. A pole-mounted electrical transformer was observed in the vicinity of the cell tower located on the western central portion of the *property*, and appeared to be in proper working condition. No evidence of staining was noted during the *site reconnaissance*, and vegetation did not appear to be noticeably discolored or distressed in the vicinity of the pole-mounted transformer. Based on the observations made during the *site reconnaissance*, the electrical infrastructure observed does not appear to pose an environmental threat, and is therefore not considered to be a *REC*.

A water line, fire hydrant, and appurtenances associated with the water infrastructure were observed near the northeastern portion of the *property*, along Young Road, during the *site reconnaissance*. The water infrastructure observed appeared to be in proper working condition, and did not appear to pose an environmental threat. Based on observations made during the *site reconnaissance*, the water infrastructure located on the *property* is not considered a *recognized environmental condition*.

Underground fiber optic cable and telecommunications appurtenances were observed along the eastern portion of the *property*, along Young Road. Underground fiber optic cable appurtenances were observed in the vicinity of the cell tower located on the western central portion of the *property*. Appurtenances associated with the underground fiber optic cable and telecommunications lines appeared to be in proper working condition, and did not appear to pose an environmental threat. Based on observations made during the *site reconnaissance*, the fiber optic cable and telecommunications infrastructure located on the *property* is not considered a *recognized environmental condition*.

Stormwater flows are generally conveyed from areas of higher elevation on the western central portion of the *property* radially towards jurisdictional wetland areas located on the southwestern portion of the *property*, southeast towards an unnamed tributary to Horse Branch, and northeast towards an unnamed tributary to Lake Swamp. Several non-jurisdictional ditches were observed throughout the *property*, and non-jurisdictional excavated ponds were observed on the central and southern portions of the *property* during the *site reconnaissance*. Water was observed to be ponding in isolated locations in areas throughout the *property*. Vegetation did not appear to be discolored, and no evidence suggesting the release of *hazardous substances* or *petroleum products* was observed in connection with the storm drainage infrastructure located on the *property* during the *site reconnaissance*; however, algae was observed to be collecting in the roadside ditch located along Young Road, which traverses the southeastern portion of the *property*. Based on observations made during the *site reconnaissance*, the storm drainage infrastructure located on the *property* is not considered a *recognized environmental condition*.

Miscellaneous debris and litter were observed sporadically throughout the *property* during the *site reconnaissance*. The miscellaneous debris and litter included but was not limited to *demolition debris*, waste metal, waste tires, waste furniture, fiberglass insulation, plastic and paper food wrappers, and empty glass, plastic, and aluminum beverage containers. Debris was observed in the non-jurisdictional ditch located on the eastern portion of the *property*, and near the eastern *property* boundary along Young Road (S-21-69). Fiberglass insulation is typically used to insulate buildings to increase energy efficiency, and is not included in the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) definition of *hazardous substances*. Vegetation did not appear to be discolored, and no evidence suggesting the release of *hazardous substances* or *petroleum products* was observed in conjunction with the debris. No evidence suggesting the releases of *hazardous substances* or *petroleum products* was noted near these miscellaneous items during the *site reconnaissance*; therefore, no *recognized environmental conditions* were determined in connection to the miscellaneous debris and litter.

Timbering operations were observed to be on-going on the southwestern portion of the *property* at the time of the *site reconnaissance*. Several pieces of heavy-duty timbering equipment were observed in this area. Several containers of *petroleum products* were noted in

the vicinity of the equipment. Based on the product labels, the *petroleum product* stored in the containers was determined to be AW68 Hydraulic Oil, which would assist in maintaining the proper working condition of the heavy-duty timbering equipment. The containers appeared to be temporarily stored in the vicinity of the equipment for the duration of the timbering operations, and did not contain high volumes of *petroleum products*. Vegetation did not appear to be discolored, and no evidence indicating the release of *petroleum products* to the ground, groundwater, or surface water was observed in connection to the containers during the *site reconnaissance*. The containers of *petroleum products* were associated with intermittent activities that are not permanently located on the *property*, and it is not likely that releases of substances from the containers would be subject to enforcement if brought to the attention of regulatory agencies. Based on this information, the presence of the containers of *petroleum products* (hydraulic oil) in the vicinity of the timbering operations on the southwestern portion of the *property* would be considered *de minimis*, and is not considered a *recognized environmental condition*.

The *property* and *adjoining property* have historically been used for agricultural purposes. Due to the high percentage of the *property* historically used as farmland, and at the time of this *ESA*, there is the potential for the over-application of pesticides, herbicides, and fertilizers to impact the *property*. Pesticides, herbicides, and fertilizers are beneficial to crop production, and are not defined as *hazardous substances*. Since pesticides, herbicides, and fertilizers are not regulated, releases of these substances would not be subject to enforcement if brought to the attention of regulatory agencies. Therefore, potential over-application of pesticides, herbicides, and fertilizers would be considered *de minimis*, and is not considered a *recognized environmental condition*. Excessive application of these substances may impact the ground, groundwater, or surface water, but are beyond the scope of this *Phase I ESA*.

8.0 CONCLUSIONS

The *Phase I Environmental Site Assessment* has been performed in conformance with the scope and limitations of *ASTM Practice E 2247-08 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process for Forestland or Rural Property* of the McLendon Young Industrial Park. Any exceptions to, or deletions from, this practice are described in Section 9.0 of this *report*. This assessment has revealed no evidence of *recognized environmental conditions* in connection with the *property*.

9.0 DEVIATIONS

Alliance Consulting Engineers, Inc. personnel have attempted to prepare this *Phase I Environmental Site Assessment* in conformance with *ASTM E 2247-08 Standard Practice for Environmental Site Assessments for Forestland or Rural Property*, which was approved on June 1, 2008, and to our knowledge and practice have not deviated from the standard, with the exception of conducting an *interview* with a local government official representing the Sardis-Timmonsville Fire Department, which was not able to be obtained at the time of this *Phase I ESA*. It is the opinion of the *environmental professional* that this does not constitute a significant *data gap*.

10.0 REFERENCES

1. *ASTM E 2247-08 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process for Forestland or Rural Property*. West Conshohocken, PA: ASTM International, 2008.
2. Pitts, J.J., *Soil Survey of Florence and Sumter Counties, South Carolina*. US Department of Agriculture, Soil Conservation Service, in Cooperation with South Carolina Agricultural Experiment Station, 1974.
3. Kluiters, Edward G., *Limited Certificate of Title*. Haynsworth Sinkler Boyd, P.A., February 2014.
4. Nesbitt, Jonathan W., *Plat & Wetland Survey*. Nesbitt Surveying Co., Inc., February 7, 2014, Revised April 9, 2014.
5. "Florence County Taxes Inquiry Property Card File". Florence County, South Carolina, 2008. Web. 17 Feb. 2014.

11.0 SIGNATURES OF ENVIRONMENTAL PROFESSIONALS

We declare that, to our professional knowledge and belief, we meet the definition of *Environmental Professional* as defined in Section 312.10 of 40 CFR Part 312. We have specific qualifications based on education, training, and experience to assess a *property* of the nature, history, and setting of the McLendon Young Industrial Park. We have developed and performed the *all appropriate inquiries* in conformance with the standards and practices set forth in 40 CFR Part 312.

James W. Frost, II, P.E., LEED Green Associate
Senior Environmental Professional

Tyler N. Gilstrap, E.I.T., LEED Green Associate
Environmental Professional

12.0 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 has offices located in Columbia, South Carolina; Bluffton, South Carolina; Greenville, South Carolina; and Charlotte, North Carolina. The staff of Alliance Consulting Engineers, Inc. currently consists of two (2) principals, six (6) senior project managers, two (2) project managers, one (1) senior project engineer, five (5) project engineers, twelve (12) engineering associates, twelve (12) CAD technicians, one (1) special projects consultant, one (1) local government liaison, three (3) regional managers, two (2) business development directors, one (1) consultant, and six (6) administrative assistants. Alliance Consulting Engineers, Inc.'s staff includes fifteen (15) registered Professional Engineers, one (1) LEED Accredited Professional, ten (10) LEED Green Associates, and the firm is properly licensed to practice engineering in South Carolina and ten (10) 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*.

This *Phase I Environmental Site Assessment* has been completed under the direction of Mr. James W. Frost, II, P.E. Mr. Frost has sixteen (16) years of engineering experience, and currently serves as a Principal with Alliance Consulting Engineers, Inc., and oversees all phases of development including project management, planning, report preparation, design, bidding and award, permitting, and construction administration. Mr. Frost graduated from the University of South Carolina in 1997, and is a Professional Engineer that is licensed to practice in the State of South Carolina. Mr. Frost's resume has been included in Appendix D of this *Phase I Environmental Site Assessment*.

APPENDIX A

PHOTOGRAPHS

PHASE I ESA OF THE McLENDON YOUNG INDUSTRIAL PARK FLORENCE COUNTY, SOUTH CAROLINA PHOTO KEY

NORTH

FCEDP
Global Reach with a Southern Touch

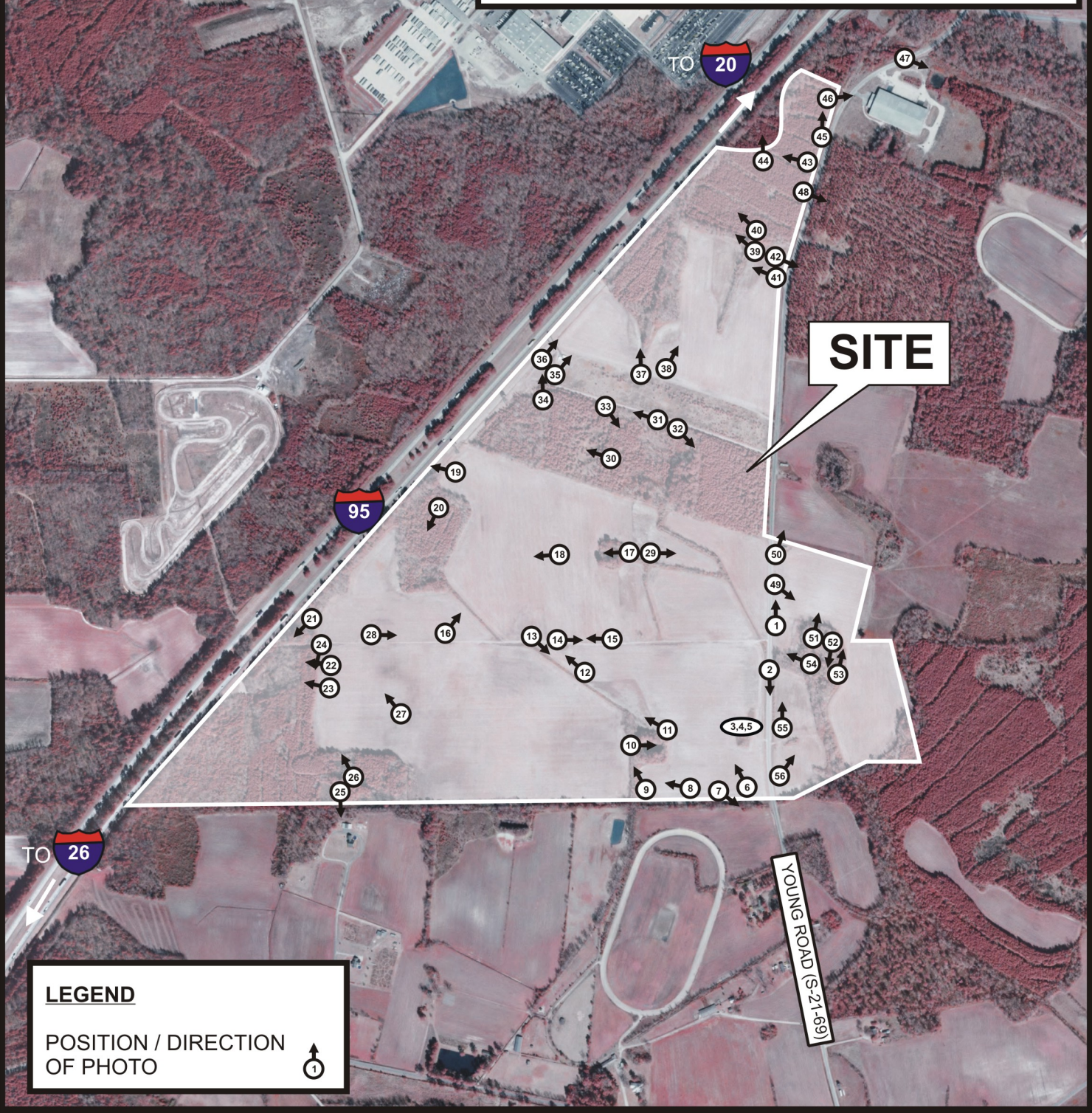
+/- 304 Acres

0 500' 1,000' 2,000'

GRAPHIC SCALE
MARCH 2014

ALLIANCE CONSULTING ENGINEERS
10 YEARS OF EXCELLENCE

PREPARED BY:
ALLIANCE CONSULTING ENGINEERS, INC.
INFORMATION FROM:
SCDNR; DOQQ ARCHIVE
SARDIS SE & NE, SC
DATED 2006



LEGEND

POSITION / DIRECTION OF PHOTO ↑ (1)

Photograph 1 – Looking north along Young Road (S-21-69), which traverses the southeastern portion of the *property*

Photograph 2 – Roadside ditch extending along Young Road (S-21-69)

Photograph 3 – *Demolition debris* observed on the southeastern portion of the *property*

Photograph 4 – Waste metal observed on the southeastern portion of the *property*

Photograph 5 – Miscellaneous litter observed on the southeastern portion of the *property*

Photograph 6 – Looking northwest across the southern portion of the *property*

Photograph 7 – Non-jurisdictional ditch extending along the southern *property* boundary

Photograph 8 – Looking west across the southern portion of the *property*

Photograph 9 – Non-jurisdictional ditch traversing the southern portion of the *property*

Photograph 10 – Non-jurisdictional pond located on the southern portion of the *property*

Photograph 11 – Isolated area of ponding water on the southern portion of the *property*

Photograph 12 – Non-jurisdictional ditch traversing the southern portion of the *property*

Photograph 13 – Looking towards the southeastern portion of the *property*

Photograph 14 – Waste tires observed on the southern portion of the *property*

Photograph 15 – Unpaved roadway and overhead electrical lines traversing the southern portion of the *property*

Photograph 16 – Looking north across the central portion of the *property*

Photograph 17 – Non-jurisdictional pond located on the central portion of the *property*

Photograph 18 – Looking west across the central portion of the *property*

Photograph 19 – Looking west towards Intersate 95 on *adjoining property*

Photograph 20 – Wooded area observed on the western portion of the *property*

Photograph 21 – Isolated non-jurisdictional wetland area observed on the western portion of the *property*

Photograph 22 – Timbering operations observed on the southwestern portion of the *property* during the *site reconnaissance*

Photograph 23 – Timbering operations observed on the southwestern portion of the *property* during the *site reconnaissance*

Photograph 24 – Containers of *petroleum products* (hydraulic oil) observed in the area of timbering operations on the southwestern portion of the *property*

Photograph 25 – Looking south towards a *dwelling* on *adjoining property*

Photograph 26 – Jurisdictional wetland area on the southwestern portion of the *property*

Photograph 27 – Isolated area of ponding water observed on the southwestern portion of the *property*

Photograph 28 – Isolated area of ponding water observed on the southwestern portion of the *property*

Photograph 29 – Isolated area of ponding water observed on the central portion of the *property*

Photograph 30 – Wooded area located on the central portion of the *property*

Photograph 31 – Unpaved roadway traversing the central portion of the *property*

Photograph 32 – Miscellaneous litter observed on the central portion of the *property*

Photograph 33 – Waste tires observed on the central portion of the *property*

Photograph 34 – Cell tower located on the western central portion of the *property*

Photograph 35 – Fiber optic cable appurtenances observed near the cell tower located on the western central portion of the *property*

Photograph 36 – Pole-mounted electrical transformer observed in the vicinity of the cell tower located on the western central portion of the *property*

Photograph 37 – Non-jurisdictional ditch traversing the northern portion of the *property*

Photograph 38 – Looking north across the northern portion of the *property*

Photograph 39 – Jurisdictional wetland area on the northern portion of the *property*

Photograph 40 – Non-jurisdictional ditch traversing the northern portion of the *property*

Photograph 41 – Utility infrastructure observed on the northern portion of the *property*

Photograph 42 – Waste furniture observed on the northern portion of the *property*

Photograph 43 – Timberland observed on the northern portion of the *property*

Photograph 44 – Looking north towards *adjoining property*

Photograph 45 – Miscellaneous roadside litter observed along Young Road (S-21-69)

Photograph 46 – Best One Tire & Service facility on *adjoining property*

Photograph 47 – Wastewater pump station located in the vicinity of the northern *property* boundary

Photograph 48 – Fire hydrant and appurtenances observed along the eastern edge of Young Road (S-21-69)

Photograph 49 – Looking southeast across the southeastern portion of the *property*

Photograph 50 – *Demolition debris* associated with a former *dwelling* on the southeastern portion of the *property*

Photograph 51 – Waste metal observed on the southeastern portion of the *property*

Photograph 52 – Waste metal observed on the southeastern portion of the *property*

Photograph 53 – Miscellaneous litter observed on the southeastern portion of the *property*

Photograph 54 – Non-jurisdictional ditch traversing the southeastern portion of the *property*

Photograph 55 – Fiberglass insulation observed in a roadside ditch traversing the southeastern portion of the *property*

Photograph 56 – Looking northeast across the southeastern portion of the *property*

APPENDIX B

ENVIRONMENTAL DATA REPORTS

Mclendon Young Industrial Site
Interchange of I-95 and Center Road
Timmonsville, SC 29161

Inquiry Number: 3800161.2s
December 03, 2013

The EDR Radius Map™ Report with GeoCheck®

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
Toll Free: 800.352.0050
www.edrnet.com

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

INTERCHANGE OF I-95 AND CENTER ROAD
TIMMONSVILLE, SC 29161

COORDINATES

Latitude (North):	34.1003000 - 34˚ 6' 1.08''
Longitude (West):	79.9181000 - 79˚ 55' 5.16''
Universal Tranverse Mercator:	Zone 17
UTM X (Meters):	599798.0
UTM Y (Meters):	3773610.8
Elevation:	136 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	34079-A8 SARDIS, SC
Most Recent Revision:	1986

AERIAL PHOTOGRAPHY IN THIS REPORT

Photo Year:	2011
Source:	USDA

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL..... National Priority List

EXECUTIVE SUMMARY

Proposed NPL ..... Proposed National Priority List Sites
NPL LIENS ..... Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL ..... National Priority List Deletions

Federal CERCLIS list

CERCLIS ..... Comprehensive Environmental Response, Compensation, and Liability Information System
FEDERAL FACILITY ..... Federal Facility Site Information listing

Federal CERCLIS NFRAP site List

CERC-NFRAP ..... CERCLIS No Further Remedial Action Planned

Federal RCRA CORRACTS facilities list

CORRACTS ..... Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF ..... RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG ..... RCRA - Large Quantity Generators
RCRA-SQG ..... RCRA - Small Quantity Generators
RCRA-CESQG ..... RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

US ENG CONTROLS ..... Engineering Controls Sites List
US INST CONTROL ..... Sites with Institutional Controls
LUCIS ..... Land Use Control Information System

Federal ERNS list

ERNS ..... Emergency Response Notification System

State- and tribal - equivalent CERCLIS

SHWS ..... Site Assessment Section Project List

State and tribal landfill and/or solid waste disposal site lists

SWF/LF ..... Permitted Landfills List

State and tribal leaking storage tank lists

LUST ..... Leaking Underground Storage Tank List
INDIAN LUST ..... Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

UST ..... Comprehensive Underground Storage Tanks

EXECUTIVE SUMMARY

AST ..... Aboveground Storage Tank List
INDIAN UST ..... Underground Storage Tanks on Indian Land
FEMA UST ..... Underground Storage Tank Listing

State and tribal institutional control / engineering control registries

RCR ..... Registry of Conditional Remedies
AUL ..... Land Use Controls

State and tribal voluntary cleanup sites

INDIAN VCP ..... Voluntary Cleanup Priority Listing
VCP ..... Voluntary Cleanup Sites

State and tribal Brownfields sites

BROWNFIELDS ..... Brownfields Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS ..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

ODI ..... Open Dump Inventory
DEBRIS REGION 9 ..... Torres Martinez Reservation Illegal Dump Site Locations
SWRCY ..... Solid Waste Recycling Facilities
INDIAN ODI ..... Report on the Status of Open Dumps on Indian Lands

Local Lists of Hazardous waste / Contaminated Sites

US CDL ..... Clandestine Drug Labs
ALLSITES ..... Site Assessment & Remediation Public Record Database
CDL ..... Clandestine Drug Lab Sites
US HIST CDL ..... National Clandestine Laboratory Register

Local Land Records

LIENS 2 ..... CERCLA Lien Information

Records of Emergency Release Reports

HMIRS ..... Hazardous Materials Information Reporting System
SPILLS ..... Spills Database List
SPILLS 90 ..... SPILLS 90 data from FirstSearch
SPILLS 80 ..... SPILLS 80 data from FirstSearch

Other Ascertainable Records

RCRA NonGen / NLR ..... RCRA - Non Generators
DOT OPS ..... Incident and Accident Data
DOD ..... Department of Defense Sites

EXECUTIVE SUMMARY

FUDS	Formerly Used Defense Sites
CONSENT	Superfund (CERCLA) Consent Decrees
ROD	Records Of Decision
UMTRA	Uranium Mill Tailings Sites
US MINES	Mines Master Index File
TRIS	Toxic Chemical Release Inventory System
TSCA	Toxic Substances Control Act
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
SSTS	Section 7 Tracking Systems
ICIS	Integrated Compliance Information System
PADS	PCB Activity Database System
MLTS	Material Licensing Tracking System
RADINFO	Radiation Information Database
FINDS	Facility Index System/Facility Registry System
RAATS	RCRA Administrative Action Tracking System
RMP	Risk Management Plans
GWCI	Groundwater Contamination Inventory
UIC	Underground Injection Wells Listing
DRYCLEANERS	Drycleaner Database
NPDES	Waste Water Treatment Facilities Listing
AIRS	Permitted Airs Facility Listing
INDIAN RESERV	Indian Reservations
SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing
PRP	Potentially Responsible Parties
2020 COR ACTION	2020 Corrective Action Program List
US AIRS	Aerometric Information Retrieval System Facility Subsystem
LEAD SMELTERS	Lead Smelter Sites
Financial Assurance	Financial Assurance Information Listing
EPA WATCH LIST	EPA WATCH LIST
US FIN ASSUR	Financial Assurance Information
PCB TRANSFORMER	PCB Transformer Registration Database
COAL ASH	Coal Ash Disposal Sites
COAL ASH DOE	Steam-Electric Plant Operation Data
COAL ASH EPA	Coal Combustion Residues Surface Impoundments List

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	EDR Proprietary Manufactured Gas Plants
EDR US Hist Auto Stat	EDR Exclusive Historic Gas Stations
EDR US Hist Cleaners	EDR Exclusive Historic Dry Cleaners

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were not identified.

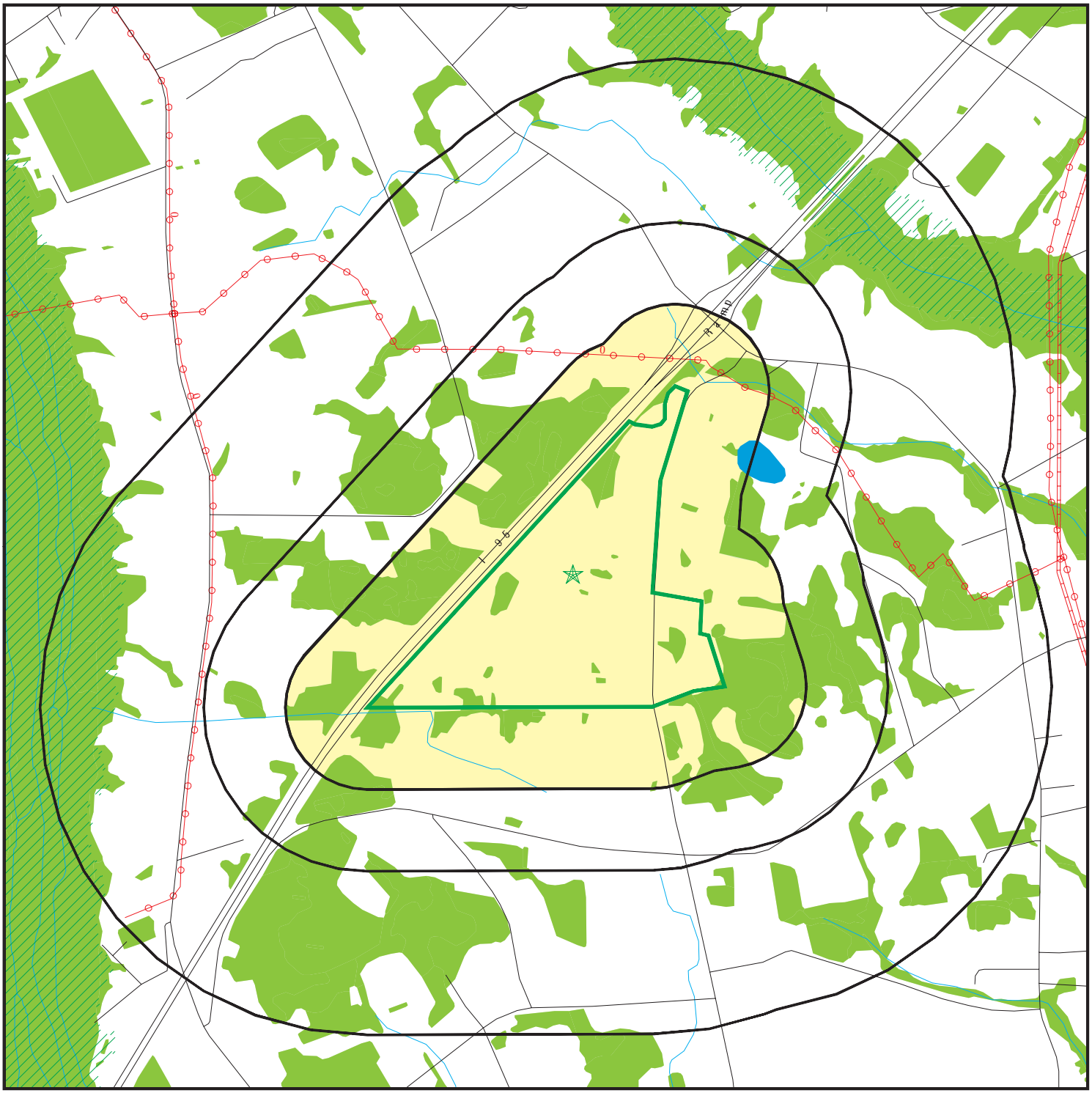
Unmappable (orphan) sites are not considered in the foregoing analysis.

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 13 records.

Site Name	Database(s)
FLORENCE COUNTY LANDFILL	RCR
LAKE SWAMP GROCERY	FINDS, RCR
STUCKEYS PECAN SHOPPE	FINDS, RCR
LAKE SWAMP GROCERY	GWCI, LUST, UST
W M GREENE & SON	GWCI, LUST, UST
AGNES HILL GROCERY	GWCI, LUST, UST
TRANSMISSION REPAIR SHOP	LUST, UST
STUCKEYS PECAN SHOPPE	GWCI, LUST, UST
CUSAACS CASH & CARRY	LUST, UST
CARTERSVILLE GRO	UST
FRED ANDERSON STA	UST
GREGGS GROCERY	UST
DON & G K YOUNG	FINDS

OVERVIEW MAP - 3800161.2s



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

0 1/4 1/2 1 Miles

Indian Reservations BIA

Power transmission lines

Oil & Gas pipelines from USGS

100-year flood zone

500-year flood zone

National Wetland Inventory

State Wetlands

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Mclendon Young Industrial Site ADDRESS: Interchange of I-95 and Center Road Timmonsville SC 29161 LAT/LONG: 34.1003 / 79.9181	CLIENT: Alliance Consulting Engineers, Inc CONTACT: Tyler Gilstrap INQUIRY #: 3800161.2s DATE: December 03, 2013 9:03 am

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DETAIL MAP - 3800161.2s

Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

Sensitive Receptors

National Priority List Sites

Dept. Defense Sites

0 1/8 1/4 1/2 Miles

Indian Reservations BIA

Power transmission lines

Oil & Gas pipelines from USGS

100-year flood zone

500-year flood zone

National Wetland Inventory

State Wetlands

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Mclendon Young Industrial Site ADDRESS: Interchange of I-95 and Center Road Timmonsville SC 29161 LAT/LONG: 34.1003 / 79.9181	CLIENT: Alliance Consulting Engineers, Inc CONTACT: Tyler Gilstrap INQUIRY #: 3800161.2s DATE: December 03, 2013 9:04 am

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
CERCLIS	0.500		0	0	0	NR	NR	0
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site List								
CERC-NFRAP	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
LUCIS	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equivalent CERCLIS								
SHWS	1.000		0	0	0	0	NR	0
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
LUST	0.500		0	0	0	NR	NR	0
INDIAN LUST	0.500		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
UST	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
FEMA UST	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
RCR	0.500		0	0	0	NR	NR	0
AUL	0.500		0	0	0	NR	NR	0
State and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US CDL	TP		NR	NR	NR	NR	NR	0
ALLSITES	0.500		0	0	0	NR	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
US HIST CDL	TP		NR	NR	NR	NR	NR	0
Local Land Records								
LIENS 2	TP		NR	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
SPILLS	TP		NR	NR	NR	NR	NR	0
SPILLS 90	TP		NR	NR	NR	NR	NR	0
SPILLS 80	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
DOD	1.000		0	0	0	0	NR	0
FUDS	1.000		0	0	0	0	NR	0
CONSENT	1.000		0	0	0	0	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
ROD	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
GWCI	0.500		0	0	0	NR	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
AIRS	TP		NR	NR	NR	NR	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
COAL ASH	0.500		0	0	0	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	1.000	0	0	0	0	NR	0
EDR US Hist Auto Stat	0.250	0	0	NR	NR	NR	0
EDR US Hist Cleaners	0.250	0	0	NR	NR	NR	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

MAP FINDINGS

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number

NO SITES FOUND

Count: 13 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
CARTERSVILLE	U003519909	CARTERSVILLE GRO	US HWY 76	29161	UST
FLORENCE COUNTY	S108979354	FLORENCE COUNTY LANDFILL	HWY 25, 4.5 MILES S OF HWY 76		RCR
TIMMONSVILLE	U003521545	FRED ANDERSON STA	RT 1	29161	UST
TIMMONSVILLE	U003524194	GREGGS GROCERY	RT 2	29161	UST
TIMMONSVILLE	U003523065	LAKE SWAMP GROCERY	RT 2 HWY 348	29161	GWCI, LUST, UST
TIMMONSVILLE	1007225205	LAKE SWAMP GROCERY	RT 2 HWY 348	29161	FINDS, RCR
TIMMONSVILLE	U004017579	W M GREENE & SON	RT 3 PO BOX 493	29161	GWCI, LUST, UST
TIMMONSVILLE	U003518868	AGNES HILL GROCERY	RT 3 PO BOX 465	29161	GWCI, LUST, UST
TIMMONSVILLE	1007829483	DON & G K YOUNG	RT 3		FINDS
TIMMONSVILLE	U004018102	TRANSMISSION REPAIR SHOP	HWY 76	29161	LUST, UST
TIMMONSVILLE	U001119300	STUCKEYS PECAN SHOPPE	PO BOX 209 I 95 & SARDIS RD	29161	GWCI, LUST, UST
TIMMONSVILLE	1007225285	STUCKEYS PECAN SHOPPE	PO BOX 209 I 95 & SARDIS RD	29161	FINDS, RCR
TIMMONSVILLE	U004179505	CUSAACS CASH & CARRY	3315 OLANTA HWY	29161	LUST, UST

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 04/26/2013
Date Data Arrived at EDR: 05/09/2013
Date Made Active in Reports: 07/10/2013
Number of Days to Update: 62

Source: EPA
Telephone: N/A
Last EDR Contact: 11/11/2013
Next Scheduled EDR Contact: 01/20/2014
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 04/26/2013
Date Data Arrived at EDR: 05/09/2013
Date Made Active in Reports: 07/10/2013
Number of Days to Update: 62

Source: EPA
Telephone: N/A
Last EDR Contact: 11/11/2013
Next Scheduled EDR Contact: 01/20/2014
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Federal Delisted NPL site list

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 04/26/2013	Source: EPA
Date Data Arrived at EDR: 05/09/2013	Telephone: N/A
Date Made Active in Reports: 07/10/2013	Last EDR Contact: 11/11/2013
Number of Days to Update: 62	Next Scheduled EDR Contact: 01/20/2014
	Data Release Frequency: Quarterly

Federal CERCLIS list

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 04/26/2013	Source: EPA
Date Data Arrived at EDR: 05/29/2013	Telephone: 703-412-9810
Date Made Active in Reports: 08/09/2013	Last EDR Contact: 11/11/2013
Number of Days to Update: 72	Next Scheduled EDR Contact: 03/10/2014
	Data Release Frequency: Quarterly

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 07/31/2012	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/09/2012	Telephone: 703-603-8704
Date Made Active in Reports: 12/20/2012	Last EDR Contact: 10/11/2013
Number of Days to Update: 72	Next Scheduled EDR Contact: 01/20/2014
	Data Release Frequency: Varies

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 04/26/2013	Source: EPA
Date Data Arrived at EDR: 05/29/2013	Telephone: 703-412-9810
Date Made Active in Reports: 08/09/2013	Last EDR Contact: 11/11/2013
Number of Days to Update: 72	Next Scheduled EDR Contact: 03/10/2014
	Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 07/11/2013
Date Data Arrived at EDR: 08/08/2013
Date Made Active in Reports: 09/13/2013
Number of Days to Update: 36

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 10/02/2013
Next Scheduled EDR Contact: 01/13/2014
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 07/11/2013
Date Data Arrived at EDR: 08/08/2013
Date Made Active in Reports: 09/13/2013
Number of Days to Update: 36

Source: Environmental Protection Agency
Telephone: (404) 562-8651
Last EDR Contact: 10/02/2013
Next Scheduled EDR Contact: 01/13/2014
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 07/11/2013
Date Data Arrived at EDR: 08/08/2013
Date Made Active in Reports: 09/13/2013
Number of Days to Update: 36

Source: Environmental Protection Agency
Telephone: (404) 562-8651
Last EDR Contact: 10/02/2013
Next Scheduled EDR Contact: 01/13/2014
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 07/11/2013
Date Data Arrived at EDR: 08/08/2013
Date Made Active in Reports: 09/13/2013
Number of Days to Update: 36

Source: Environmental Protection Agency
Telephone: (404) 562-8651
Last EDR Contact: 10/02/2013
Next Scheduled EDR Contact: 01/13/2014
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 07/11/2013
Date Data Arrived at EDR: 08/08/2013
Date Made Active in Reports: 09/13/2013
Number of Days to Update: 36

Source: Environmental Protection Agency
Telephone: (404) 562-8651
Last EDR Contact: 10/02/2013
Next Scheduled EDR Contact: 01/13/2014
Data Release Frequency: Varies

Federal institutional controls / engineering controls registries

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 06/17/2013
Date Data Arrived at EDR: 06/21/2013
Date Made Active in Reports: 10/03/2013
Number of Days to Update: 104

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 09/10/2013
Next Scheduled EDR Contact: 12/23/2013
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 06/17/2013
Date Data Arrived at EDR: 06/21/2013
Date Made Active in Reports: 10/03/2013
Number of Days to Update: 104

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 09/10/2013
Next Scheduled EDR Contact: 12/23/2013
Data Release Frequency: Varies

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 08/20/2013
Date Data Arrived at EDR: 08/23/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 70

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 11/18/2013
Next Scheduled EDR Contact: 03/03/2014
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 01/17/2013
Date Made Active in Reports: 02/15/2013
Number of Days to Update: 29

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 10/01/2013
Next Scheduled EDR Contact: 01/13/2014
Data Release Frequency: Annually

State- and tribal - equivalent CERCLIS

SHWS: Site Assessment Section Project List

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 03/20/2013
Date Data Arrived at EDR: 03/28/2013
Date Made Active in Reports: 05/10/2013
Number of Days to Update: 43

Source: Department of Health and Environmental Control
Telephone: 803-734-5376
Last EDR Contact: 09/17/2013
Next Scheduled EDR Contact: 12/30/2013
Data Release Frequency: Annually

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: Permitted Landfills List

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 03/29/2013
Date Data Arrived at EDR: 03/29/2013
Date Made Active in Reports: 05/10/2013
Number of Days to Update: 42

Source: Department of Health and Environmental Control
Telephone: 803-734-5165
Source: Department of Health and Environmental Control, GIS Section
Telephone: 803-896-4084
Last EDR Contact: 09/17/2013
Next Scheduled EDR Contact: 12/30/2013
Data Release Frequency: Varies

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tank List

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 09/04/2013
Date Data Arrived at EDR: 09/05/2013
Date Made Active in Reports: 11/07/2013
Number of Days to Update: 63

Source: Department of Health and Environmental Control
Telephone: 803-898-4350
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Quarterly

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 07/29/2013
Date Data Arrived at EDR: 07/30/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 94

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 03/01/2013
Date Data Arrived at EDR: 03/01/2013
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 42

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Quarterly

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 08/27/2012
Date Data Arrived at EDR: 08/28/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 49

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Quarterly

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 08/27/2013
Date Data Arrived at EDR: 08/27/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 66

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 09/12/2011
Date Data Arrived at EDR: 09/13/2011
Date Made Active in Reports: 11/11/2011
Number of Days to Update: 59

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 08/01/2013
Date Data Arrived at EDR: 08/02/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 91

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Semi-Annually

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 02/01/2013
Date Data Arrived at EDR: 05/01/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 184

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 11/01/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 08/20/2013
Date Data Arrived at EDR: 08/23/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 70

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Varies

State and tribal registered storage tank lists

UST: Comprehensive Underground Storage Tanks
Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 09/04/2013
Date Data Arrived at EDR: 09/05/2013
Date Made Active in Reports: 11/07/2013
Number of Days to Update: 63

Source: Department of Health and Environmental Control
Telephone: 803-896-7957
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Quarterly

AST: Aboveground Storage Tank List
Registered Aboveground Storage Tanks.

Date of Government Version: 03/25/2004
Date Data Arrived at EDR: 08/04/2004
Date Made Active in Reports: 09/23/2004
Number of Days to Update: 50

Source: Department of Health and Environmental Control
Telephone: 803-898-4350
Last EDR Contact: 12/02/2013
Next Scheduled EDR Contact: 03/17/2014
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 08/20/2013
Date Data Arrived at EDR: 08/23/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 70

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 05/10/2011
Date Data Arrived at EDR: 05/11/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 34

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Semi-Annually

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 07/29/2013
Date Data Arrived at EDR: 08/01/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 92

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 02/21/2013
Date Data Arrived at EDR: 02/26/2013
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 45

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Quarterly

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 02/05/2013
Date Data Arrived at EDR: 02/06/2013
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 65

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Quarterly

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 08/01/2013
Date Data Arrived at EDR: 08/02/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 91

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Semi-Annually

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 09/28/2012
Date Data Arrived at EDR: 11/07/2012
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 156

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 11/01/2014
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 02/28/2013
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 43

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Varies

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 55

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 10/17/2013
Next Scheduled EDR Contact: 01/27/2014
Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

RCR: Registry of Conditional Remedies

The Bureau of Land and Waste Management established this Registry to help monitor and maintain sites that have conditional remedies. A Conditional Remedy is an environmental remedy that includes certain qualifications. These qualifications are divided into two major categories: Remedies requiring Land Use Controls and Conditional No Further Actions.

Date of Government Version: 09/19/2012
Date Data Arrived at EDR: 09/20/2012
Date Made Active in Reports: 10/22/2012
Number of Days to Update: 32

Source: Department of Health & Environmental Control
Telephone: 803-896-4000
Last EDR Contact: 10/07/2013
Next Scheduled EDR Contact: 12/30/2013
Data Release Frequency: Varies

AUL: Land Use Controls

The term Land Use Controls or "LUCs" encompass institutional controls, such as those involved in real estate interests, governmental permitting, zoning, public advisories, deed notices, and other legal restrictions. The term also includes restrictions on access, whether achieved by means of engineered barriers (e.g., fence or concrete pad) or by human means (e.g., the presence of security guards). Additionally, the term includes both affirmative measures to achieve the desired restrictions (e.g., night lighting of an area) and prohibitive directives (e.g., restrictions on certain types of wells for the duration of the corrective action). Considered altogether, the LUCs for a facility will provide a tool for how the property should be used in order to maintain the level of protectiveness that one or more corrective actions were designed to achieve.

Date of Government Version: 10/13/2008
Date Data Arrived at EDR: 10/14/2008
Date Made Active in Reports: 11/19/2008
Number of Days to Update: 36

Source: Department of Health & Environmental Control
Telephone: 803-896-4049
Last EDR Contact: 10/10/2013
Next Scheduled EDR Contact: 12/30/2013
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

VCP: Voluntary Cleanup Sites

Sites participating in the Voluntary Cleanup Program. Once staff and a non-responsible party have agreed upon an approved scope of work for a site investigation and/or remediation, the party enters into a voluntary cleanup contract. Staff oversees the cleanup efforts to ensure that activities are performed to our satisfaction. Upon completion of the negotiated work in the voluntary cleanup contract, the non-responsible party receives State Superfund liability protection.

Date of Government Version: 06/24/2013
Date Data Arrived at EDR: 06/24/2013
Date Made Active in Reports: 07/16/2013
Number of Days to Update: 22

Source: Department of Health and Environmental Control
Telephone: 803-896-4049
Last EDR Contact: 10/04/2013
Next Scheduled EDR Contact: 12/30/2013
Data Release Frequency: Varies

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 09/28/2012
Date Data Arrived at EDR: 10/02/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 14

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 10/01/2013
Next Scheduled EDR Contact: 01/13/2014
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Brownfields Sites Listing
The Brownfields component of the Voluntary Cleanup Program allows a non-responsible party to acquire a contaminated property with State Superfund liability protection for existing contamination by agreeing to perform an environmental assessment and/or remediation.

Date of Government Version: 02/26/2013
Date Data Arrived at EDR: 02/27/2013
Date Made Active in Reports: 04/02/2013
Number of Days to Update: 34

Source: Department of Health & Environmental Control
Telephone: 803-896-4069
Last EDR Contact: 09/30/2013
Next Scheduled EDR Contact: 01/13/2014
Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 06/24/2013
Date Data Arrived at EDR: 06/25/2013
Date Made Active in Reports: 08/09/2013
Number of Days to Update: 45

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 09/24/2013
Next Scheduled EDR Contact: 01/08/2014
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: No Update Planned

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SWRCY: Solid Waste Recycling Facilities
A listing of recycling center locations.

Date of Government Version: 08/27/2013
Date Data Arrived at EDR: 09/03/2013
Date Made Active in Reports: 11/11/2013
Number of Days to Update: 69

Source: Department of Health & Enviornmental Control
Telephone: 803-896-8985
Last EDR Contact: 12/02/2013
Next Scheduled EDR Contact: 03/17/2014
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 11/04/2013
Next Scheduled EDR Contact: 02/17/2014
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US CDL: Clandestine Drug Labs
A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 08/06/2013
Date Data Arrived at EDR: 09/11/2013
Date Made Active in Reports: 10/03/2013
Number of Days to Update: 22

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 09/04/2013
Next Scheduled EDR Contact: 12/16/2013
Data Release Frequency: Quarterly

ALLSITES: Site Assessment & Remediation Public Record Database
The South Carolina Department of Health and Environmental Control is pleased to have the Public Record for your review. The purpose of this database is two-fold. First, it will provide to communities another form of notice of cleanup activity, allowing them to have more information about assessment and cleanup activities in their area and in the State. Second, it can assist those seeking to redevelop brownfield properties within South Carolina.

Date of Government Version: 10/01/2013
Date Data Arrived at EDR: 10/17/2013
Date Made Active in Reports: 11/07/2013
Number of Days to Update: 21

Source: Department of Health & Environmental Control
Telephone: 803-896-4000
Last EDR Contact: 10/01/2013
Next Scheduled EDR Contact: 01/13/2014
Data Release Frequency: Quarterly

CDL: Clandestine Drug Lab Sites
A listing of clandestine drug lab site locations.

Date of Government Version: 01/24/2012
Date Data Arrived at EDR: 01/26/2012
Date Made Active in Reports: 02/24/2012
Number of Days to Update: 29

Source: Department of Health & Environmental Control
Telephone: 803-896-4288
Last EDR Contact: 09/10/2013
Next Scheduled EDR Contact: 12/23/2013
Data Release Frequency: Varies

CDL 2: Clandestine Drug Lab Listing
A listing of clandestine drug lab site locations.

Date of Government Version: 09/26/2013
Date Data Arrived at EDR: 10/09/2013
Date Made Active in Reports: 11/07/2013
Number of Days to Update: 29

Source: South Carolina Law Enforcement Division
Telephone: 803-896-7136
Last EDR Contact: 09/23/2013
Next Scheduled EDR Contact: 12/23/2013
Data Release Frequency: Varies

US HIST CDL: National Clandestine Laboratory Register
A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 09/01/2007
Date Data Arrived at EDR: 11/19/2008
Date Made Active in Reports: 03/30/2009
Number of Days to Update: 131

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

Local Land Records

LIENS 2: CERCLA Lien Information
A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/06/2013
Date Data Arrived at EDR: 04/25/2013
Date Made Active in Reports: 05/10/2013
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 11/13/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Varies

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System
Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 55

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 10/01/2013
Next Scheduled EDR Contact: 01/13/2014
Data Release Frequency: Annually

SPILLS: Spill List

Spills and releases of petroleum and hazardous chemicals reported to the Oil & Chemical Emergency Response division.

Date of Government Version: 09/17/2013
Date Data Arrived at EDR: 09/19/2013
Date Made Active in Reports: 11/07/2013
Number of Days to Update: 49

Source: Department of Health and Environmental Control
Telephone: 803-898-4111
Last EDR Contact: 12/02/2013
Next Scheduled EDR Contact: 03/17/2014
Data Release Frequency: Varies

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 10/25/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 03/07/2013
Number of Days to Update: 63

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SPILLS 80: SPILLS80 data from FirstSearch

Spills 80 includes those spill and release records available from FirstSearch databases prior to 1990. Typically, they may include chemical, oil and/or hazardous substance spills recorded before 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 80.

Date of Government Version: 03/26/2001
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 03/07/2013
Number of Days to Update: 63

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 07/11/2013
Date Data Arrived at EDR: 08/08/2013
Date Made Active in Reports: 09/13/2013
Number of Days to Update: 36

Source: Environmental Protection Agency
Telephone: (404) 562-8651
Last EDR Contact: 10/02/2013
Next Scheduled EDR Contact: 01/13/2014
Data Release Frequency: Varies

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 11/06/2013
Next Scheduled EDR Contact: 02/17/2014
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 10/18/2013
Next Scheduled EDR Contact: 01/27/2014
Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 02/26/2013
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 15

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 09/10/2013
Next Scheduled EDR Contact: 12/23/2013
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 06/30/2013
Date Data Arrived at EDR: 08/07/2013
Date Made Active in Reports: 10/03/2013
Number of Days to Update: 57

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 09/30/2013
Next Scheduled EDR Contact: 01/13/2014
Data Release Frequency: Varies

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 04/26/2013
Date Data Arrived at EDR: 06/11/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 143

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 09/13/2013
Next Scheduled EDR Contact: 12/23/2013
Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010
Date Data Arrived at EDR: 10/07/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 146

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 11/26/2013
Next Scheduled EDR Contact: 03/10/2014
Data Release Frequency: Varies

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/01/2013
Date Data Arrived at EDR: 09/05/2013
Date Made Active in Reports: 10/03/2013
Number of Days to Update: 28

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 09/05/2013
Next Scheduled EDR Contact: 12/16/2013
Data Release Frequency: Semi-Annually

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 07/31/2013
Date Made Active in Reports: 09/13/2013
Number of Days to Update: 44

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 11/27/2013
Next Scheduled EDR Contact: 03/10/2014
Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2006
Date Data Arrived at EDR: 09/29/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 64

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 09/24/2013
Next Scheduled EDR Contact: 01/08/2014
Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 11/21/2013
Next Scheduled EDR Contact: 03/10/2014
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 11/21/2014
Next Scheduled EDR Contact: 03/10/2014
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 07/20/2011
Date Data Arrived at EDR: 11/10/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 61

Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 10/09/2014
Next Scheduled EDR Contact: 01/27/2014
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 06/01/2013
Date Data Arrived at EDR: 07/17/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 107

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 10/18/2013
Next Scheduled EDR Contact: 01/27/2014
Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 07/22/2013
Date Data Arrived at EDR: 08/02/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 91

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 09/10/2013
Next Scheduled EDR Contact: 12/23/2013
Data Release Frequency: Quarterly

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 09/30/2013
Date Data Arrived at EDR: 10/09/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 23

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 10/09/2013
Next Scheduled EDR Contact: 01/20/2014
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 03/08/2013
Date Data Arrived at EDR: 03/21/2013
Date Made Active in Reports: 07/10/2013
Number of Days to Update: 111

Source: EPA
Telephone: (404) 562-9900
Last EDR Contact: 09/11/2013
Next Scheduled EDR Contact: 12/23/2013
Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 05/08/2012
Date Data Arrived at EDR: 05/25/2012
Date Made Active in Reports: 07/10/2012
Number of Days to Update: 46

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 02/26/2013
Date Made Active in Reports: 04/19/2013
Number of Days to Update: 52

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 11/25/2013
Next Scheduled EDR Contact: 03/10/2014
Data Release Frequency: Biennially

GWCI: Groundwater Contamination Inventory

An inventory of all groundwater contamination cases in the state.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 11/06/2008
Date Made Active in Reports: 11/19/2008
Number of Days to Update: 13

Source: Department of Health and Environmental Control
Telephone: 803-898-3798
Last EDR Contact: 09/30/2013
Next Scheduled EDR Contact: 01/13/2014
Data Release Frequency: Annually

UIC: Underground Injection Wells Listing
A listing of underground injection wells locations.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 09/05/2013
Date Made Active in Reports: 11/07/2013
Number of Days to Update: 63

Source: Department of Health & Environmental Control
Telephone: 803-898-3799
Last EDR Contact: 11/11/2013
Next Scheduled EDR Contact: 02/24/2014
Data Release Frequency: Varies

DRYCLEANERS: Drycleaner Database
The Drycleaning Facility Restoration Trust Fund database is used to access, prioritze and cleanup contaminated registered drycleaning sites.

Date of Government Version: 12/01/2010
Date Data Arrived at EDR: 02/11/2011
Date Made Active in Reports: 03/15/2011
Number of Days to Update: 32

Source: Department of Health & Environmental Control
Telephone: 803-898-3882
Last EDR Contact: 11/08/2013
Next Scheduled EDR Contact: 02/17/2014
Data Release Frequency: Varies

NPDES: Waste Water Treatment Facilities Listing
A listing of waste water treatment facility locations.

Date of Government Version: 09/17/2013
Date Data Arrived at EDR: 09/19/2013
Date Made Active in Reports: 11/07/2013
Number of Days to Update: 49

Source: Department of Health & Environmental Control
Telephone: 803-898-4300
Last EDR Contact: 09/27/2013
Next Scheduled EDR Contact: 01/08/2014
Data Release Frequency: Varies

AIRS: Permiited Airs Facility Listing
A listing of permitted airs facilities.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 03/08/2012
Date Made Active in Reports: 04/04/2012
Number of Days to Update: 27

Source: Department of Health & Environmental Control
Telephone: 803-898-4279
Last EDR Contact: 12/02/2013
Next Scheduled EDR Contact: 03/17/2014
Data Release Frequency: Varies

INDIAN RESERV: Indian Reservations
This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 12/08/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 10/18/2013
Next Scheduled EDR Contact: 01/27/2014
Data Release Frequency: Semi-Annually

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing
The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011
Date Data Arrived at EDR: 03/09/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 54

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 11/18/2013
Next Scheduled EDR Contact: 02/03/2014
Data Release Frequency: Varies

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 01/23/2013
Date Data Arrived at EDR: 01/30/2013
Date Made Active in Reports: 05/10/2013
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-5962
Last EDR Contact: 09/30/2013
Next Scheduled EDR Contact: 01/13/2014
Data Release Frequency: Annually

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 04/15/2013
Date Data Arrived at EDR: 07/03/2013
Date Made Active in Reports: 09/13/2013
Number of Days to Update: 72

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 10/04/2013
Next Scheduled EDR Contact: 01/13/2014
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 11/11/2011
Date Data Arrived at EDR: 05/18/2012
Date Made Active in Reports: 05/25/2012
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 11/15/2013
Next Scheduled EDR Contact: 02/24/2014
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 01/29/2013
Date Data Arrived at EDR: 02/14/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 09/24/2013
Next Scheduled EDR Contact: 01/20/2014
Data Release Frequency: Varies

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 01/23/2013
Date Data Arrived at EDR: 01/30/2013
Date Made Active in Reports: 05/10/2013
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-5962
Last EDR Contact: 09/30/2013
Next Scheduled EDR Contact: 01/13/2014
Data Release Frequency: Annually

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 06/30/2013
Date Data Arrived at EDR: 08/13/2013
Date Made Active in Reports: 09/13/2013
Number of Days to Update: 31

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 11/15/2013
Next Scheduled EDR Contact: 02/24/2014
Data Release Frequency: Quarterly

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 03/04/2013
Date Data Arrived at EDR: 03/15/2013
Date Made Active in Reports: 05/10/2013
Number of Days to Update: 56

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 11/18/2013
Next Scheduled EDR Contact: 03/03/2014
Data Release Frequency: Quarterly

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011
Date Data Arrived at EDR: 10/19/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 83

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 11/01/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 10/18/2013
Next Scheduled EDR Contact: 01/27/2014
Data Release Frequency: N/A

COAL ASH: Coal Ash Disposal Sites

A listing of sites with coal ash ponds.

Date of Government Version: 07/31/2009
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 08/17/2009
Number of Days to Update: 10

Source: Department of Health & Environmental Control
Telephone: 803-898-3964
Last EDR Contact: 09/27/2013
Next Scheduled EDR Contact: 01/08/2014
Data Release Frequency: Varies

COAL ASH DOE: Sleam-Electric Plan Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 10/15/2013
Next Scheduled EDR Contact: 01/27/2014
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 08/17/2010
Date Data Arrived at EDR: 01/03/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 77

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 09/13/2013
Next Scheduled EDR Contact: 12/23/2013
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing
Financial assurance information for aolid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 12/21/2012
Date Data Arrived at EDR: 12/21/2012
Date Made Active in Reports: 02/01/2013
Number of Days to Update: 42

Source: Department of Health & Environmental Control
Telephone: 803-896-4067
Last EDR Contact: 09/17/2013
Next Scheduled EDR Contact: 12/30/2013
Data Release Frequency: Quarterly

Financial Assurance 2: Financial Assurance Information Listing
Hazardous waste financial assurance information.

Date of Government Version: 12/21/2012
Date Data Arrived at EDR: 12/21/2012
Date Made Active in Reports: 02/01/2013
Number of Days to Update: 42

Source: Department of Health & Environmental Control
Telephone: 803-898-3880
Last EDR Contact: 09/17/2013
Next Scheduled EDR Contact: 12/30/2013
Data Release Frequency: Varies

Financial Assurance 3: Financial Assurance Information Listing
UST financial assurance information.

Date of Government Version: 05/25/2011
Date Data Arrived at EDR: 05/27/2011
Date Made Active in Reports: 06/30/2011
Number of Days to Update: 34

Source: Department of Health & Environmental Control
Telephone: 803-898-3880
Last EDR Contact: 09/06/2013
Next Scheduled EDR Contact: 12/16/2013
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants
The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR US Hist Auto Stat: EDR Exclusive Historic Gas Stations
EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR US Hist Cleaners: EDR Exclusive Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR US Hist Cleaners: EDR Proprietary Historic Dry Cleaners - Cole

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: N/A
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR US Hist Auto Stat: EDR Proprietary Historic Gas Stations - Cole

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: N/A
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 07/30/2013
Date Data Arrived at EDR: 08/19/2013
Date Made Active in Reports: 10/03/2013
Number of Days to Update: 45

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 11/22/2013
Next Scheduled EDR Contact: 03/03/2014
Data Release Frequency: Annually

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 07/19/2012
Date Made Active in Reports: 08/28/2012
Number of Days to Update: 40

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 10/18/2013
Next Scheduled EDR Contact: 01/27/2014
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 11/01/2013
Date Data Arrived at EDR: 11/07/2013
Date Made Active in Reports: 11/18/2013
Number of Days to Update: 11

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 11/07/2013
Next Scheduled EDR Contact: 02/17/2014
Data Release Frequency: Annually

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 07/24/2013
Date Made Active in Reports: 08/19/2013
Number of Days to Update: 26

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 10/21/2013
Next Scheduled EDR Contact: 02/03/2014
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 06/21/2013
Date Made Active in Reports: 08/05/2013
Number of Days to Update: 45

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 11/25/2013
Next Scheduled EDR Contact: 03/10/2014
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 08/09/2013
Date Made Active in Reports: 09/27/2013
Number of Days to Update: 49

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 09/16/2013
Next Scheduled EDR Contact: 12/30/2013
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data
Source: Rextag Strategies Corp.
Telephone: (281) 769-2247
U.S. Electric Transmission and Power Plants Systems Digital GIS Data

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Child Day Care List
Source: Department of Social Services
Telephone: 803-898-7345

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory
Source: Department of Natural Resources
Telephone: 803-734-9494

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

MCLENDON YOUNG INDUSTRIAL SITE
INTERCHANGE OF I-95 AND CENTER ROAD
TIMMONSVILLE, SC 29161

TARGET PROPERTY COORDINATES

Latitude (North):	34.1003 - 34˚ 6' 1.08''
Longitude (West):	79.9181 - 79˚ 55' 5.16''
Universal Tranverse Mercator:	Zone 17
UTM X (Meters):	599798.0
UTM Y (Meters):	3773610.8
Elevation:	136 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	34079-A8 SARDIS, SC
Most Recent Revision:	1986

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

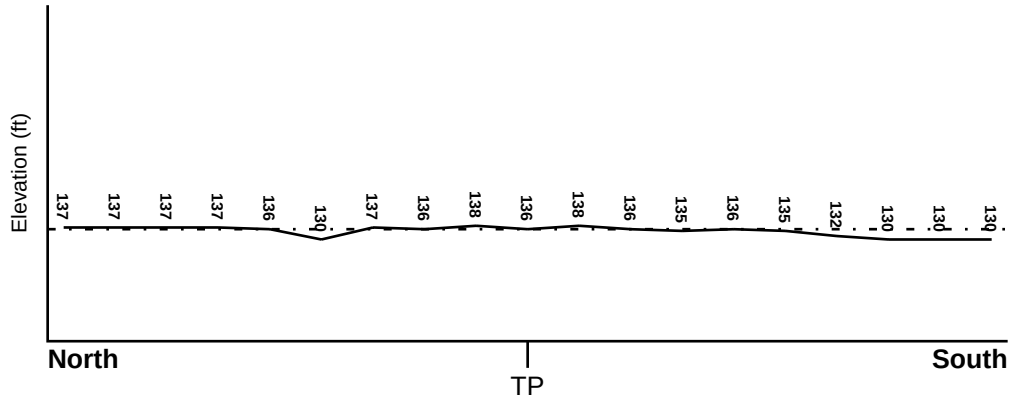
TOPOGRAPHIC INFORMATION

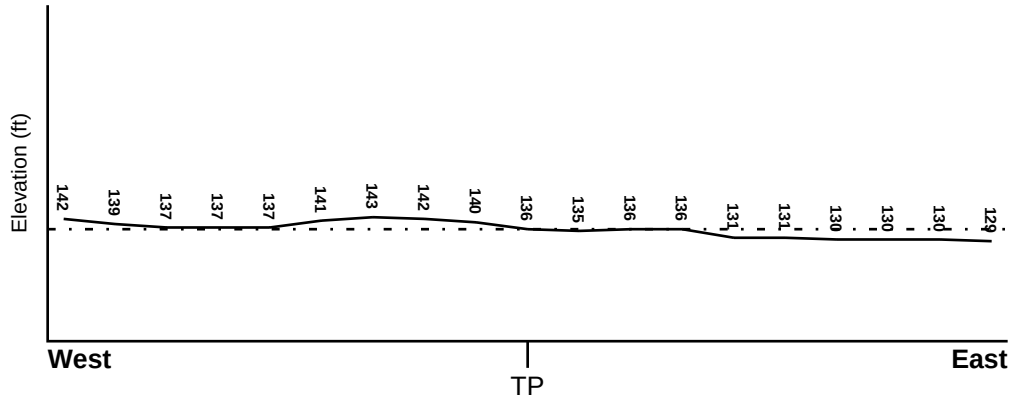
Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

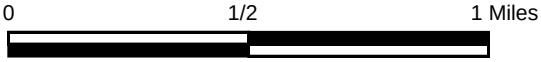
General Topographic Gradient: General ENE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES





Target Property Elevation: 136 ft.



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Target Property County	FEMA Flood Electronic Data
FLORENCE, SC	YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 45041C - FEMA DFIRM Flood data

Additional Panels in search area: Not Reported

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
SARDIS	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

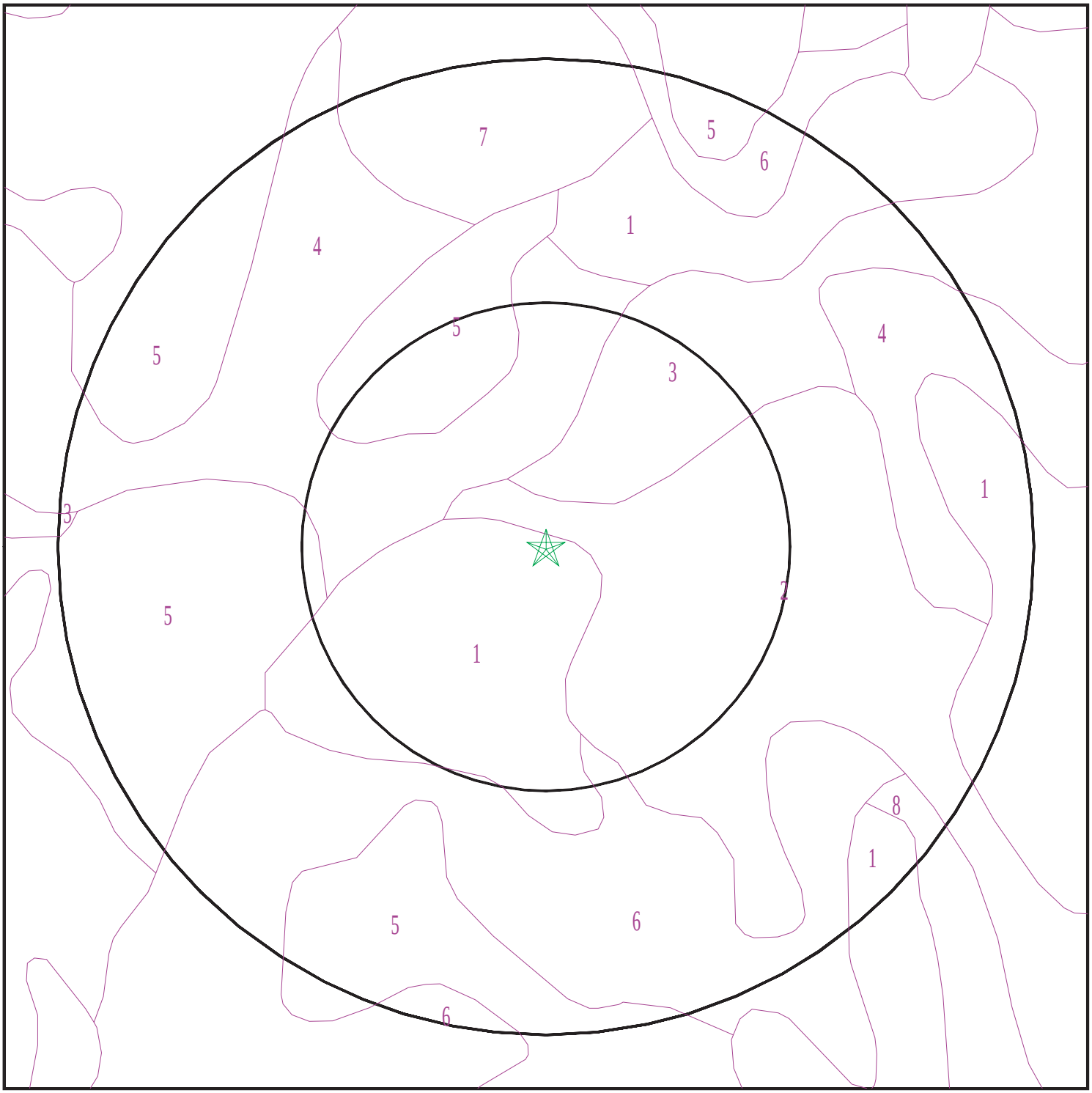
Era:	Cenozoic
System:	Tertiary
Series:	Pliocene
Code:	Tp *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 3800161.2s



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME: Mclendon Young Industrial Site ADDRESS: Interchange of I-95 and Center Road Timmonsville SC 29161 LAT/LONG: 34.1003 / 79.9181	CLIENT: Alliance Consulting Engineers, Inc CONTACT: Tyler Gilstrap INQUIRY #: 3800161.2s DATE: December 03, 2013 9:04 am

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: NORFOLK

Soil Surface Texture: loamy sand

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 122 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	loamy sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 6 Min: 3.6
2	7 inches	12 inches	loamy sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 6 Min: 3.6
3	12 inches	68 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 14 Min: 4	Max: 5.5 Min: 3.6

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
4	68 inches	79 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 14 Min: 4	Max: 5.5 Min: 3.6

Soil Map ID: 2

Soil Component Name: RAINS

Soil Surface Texture: sandy loam

Hydrologic Group: Class B/D - Drained/undrained hydrology class of soils that can be drained and are classified.

Soil Drainage Class: Poorly drained

Hydric Status: All hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 6.5 Min: 3.6
2	7 inches	11 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 6.5 Min: 3.6

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
3	11 inches	79 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 14 Min: 4	Max: 5.5 Min: 3.6
4	79 inches	85 inches	sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 6 Min: 3.6

Soil Map ID: 3

Soil Component Name: LYNCHBURG

Soil Surface Texture: sandy clay loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat poorly drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 15 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	14 inches	51 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 14 Min: 4	Max: 5.5 Min: 3.6

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
2	0 inches	14 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 5.5 Min: 3.6
3	51 inches	72 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 14 Min: 4	Max: 5.5 Min: 3.6

Soil Map ID: 4

Soil Component Name: GOLDSBORO

Soil Surface Texture: loamy sand

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 61 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	loamy sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 6 Min: 3.6

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
2	7 inches	37 inches	loamy sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 6 Min: 3.6
3	37 inches	72 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 14 Min: 4	Max: 5.5 Min: 3.6

Soil Map ID: 5

Soil Component Name: COXVILLE

Soil Surface Texture: sandy clay loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Poorly drained

Hydric Status: All hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	5 inches	22 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 42 Min: 4	Max: 6 Min: 3.6

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
2	22 inches	74 inches	sandy clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 6 Min: 3.6
3	0 inches	5 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 5.5 Min: 3.6

Soil Map ID: 6

Soil Component Name: DUPLIN

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 61 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	11 inches	fine sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.3 Min: 5.1

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
2	11 inches	42 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 5.5 Min: 4.5
3	42 inches	72 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 4 Min: 1.4	Max: 5.5 Min: 4.5

Soil Map ID: 7

Soil Component Name: VARINA

Soil Surface Texture: loamy sand

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	loamy sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 6.5 Min: 4.5

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
2	7 inches	14 inches	loamy sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 6.5 Min: 4.5
3	14 inches	72 inches	sandy clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 5.5 Min: 4.5

Soil Map ID: 8

Soil Component Name: NORFOLK

Soil Surface Texture: loamy sand

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 122 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	loamy sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 6 Min: 3.6

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
2	7 inches	12 inches	loamy sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 6 Min: 3.6
3	12 inches	68 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 14 Min: 4	Max: 5.5 Min: 3.6
4	68 inches	79 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 14 Min: 4	Max: 5.5 Min: 3.6

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

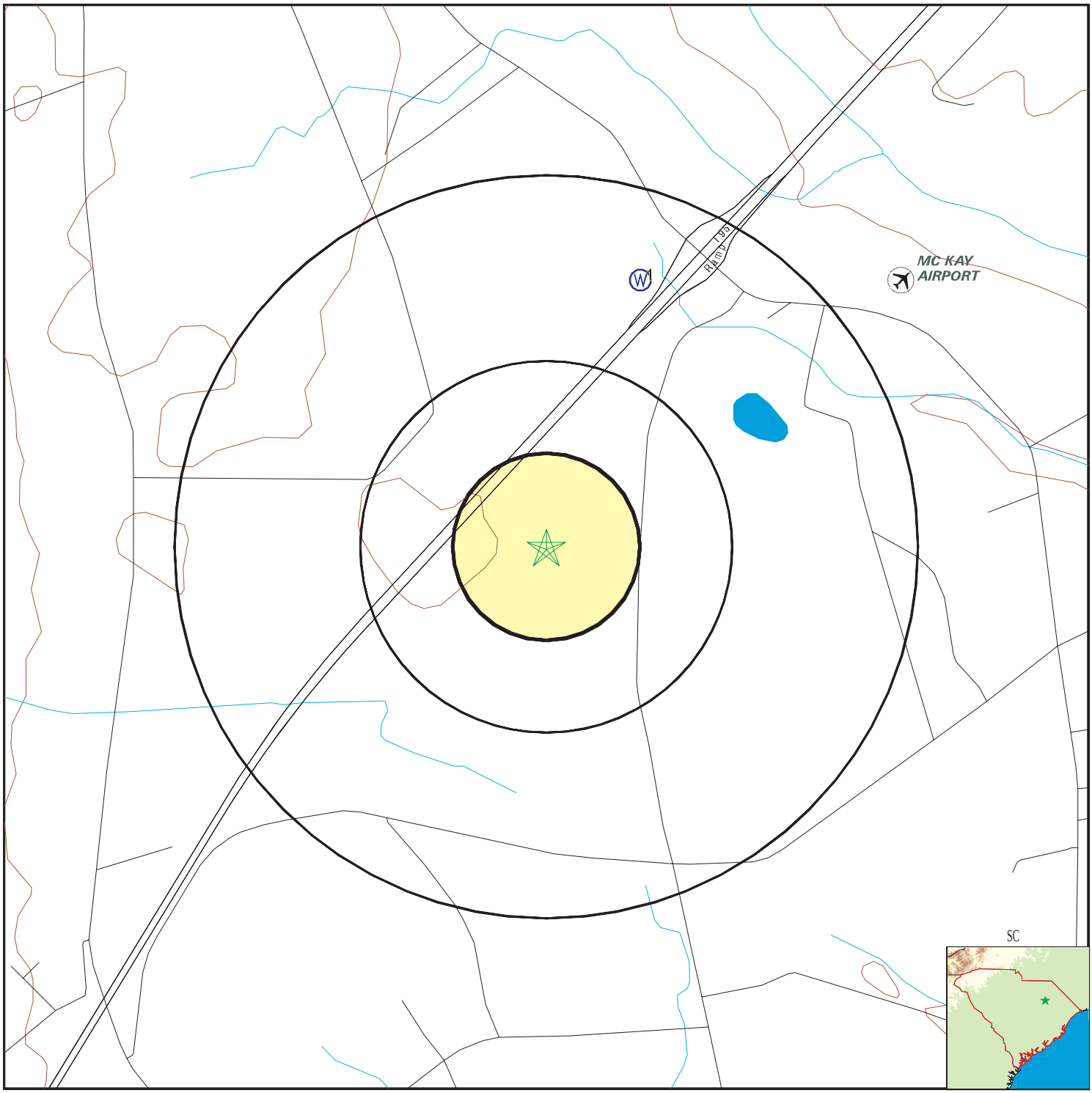
Note: PWS System location is not always the same as well location.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	SCWC30000011349	1/2 - 1 Mile NNE

PHYSICAL SETTING SOURCE MAP - 3800161.2s



County Boundary
Major Roads
Contour Lines
Airports
Earthquake epicenter, Richter 5 or greater
Water Wells
Public Water Supply Wells
Cluster of Multiple Icons

0 1/4 1/2 1 Miles

Groundwater Flow Direction
GI Indeterminate Groundwater Flow at Location
GV Groundwater Flow Varies at Location

N

SITE NAME:	Mclendon Young Industrial Site	CLIENT:	Alliance Consulting Engineers, Inc
ADDRESS:	Interchange of I-95 and Center Road Timmonsville SC 29161	CONTACT:	Tyler Gilstrap
		INQUIRY #:	3800161.2s
LAT/LONG:	34.1003 / 79.9181	DATE:	December 03, 2013 9:04 am

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Map ID Direction Distance Elevation		Database	EDR ID Number
1 **NNE** **1/2 - 1 Mile** **Lower**		**SC WELLS**	**SCWC30000011349**

Conum:	FLO-410	Scgrid:	17N-p1
Latn:	340638		
Longn:	795450		
Utm e:	600174		
Utm n:	3774752		
Topo:	Sardis		
Elev:	0		
Owner:	Honda Plant	Owner well:	Not Reported
Location:	Timmonsville, 2 miles SE	Use:	Irrigation
Depth d:	200		
Depth c:	200		
Diam 1:	4		
Diam 2:	Not Reported	Oh cas:	Not Reported
Screen t:	140		
Screen b:	200		
Drill yr:	2002	Drill mo:	8
Yield:	110		
Yield yr:	2002	G logs:	Not Reported
D logs:	1		
P test:	0		
Chem:	Not Reported	Wl:	36
Wl yr:	2002	Driller:	Welch
Site id:	SCWC30000011349		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: SC Radon

Radon Test Results

Zipcode	Average	Num Tests	Minimum	Maximum	% > 4 pCi/L
29161	0.6	4	0.3	0.8	0.0

Federal EPA Radon Zone for FLORENCE County: 3

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 29161

Number of sites tested: 2

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.250 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory
Source: Department of Natural Resources
Telephone: 803-734-9494

HYDROGEOLOGIC INFORMATION

AQUIFLOW[R] Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water Well Database
Source: Department of Natural Resources
Telephone: 803-734-6440
Water wells in the Coastal Plain counties of South Carolina

Water Well Database
Source: Department of Natural Resources
Telephone: 864-654-1671
A listing of water wells in the Piedmont (upstate) counties.

OTHER STATE DATABASE INFORMATION

RADON

State Database: SC Radon
Source: Department of Health & Environmental Control
Telephone: 864-241-1090
Radon Test Results by Zip Code

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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Mclendon Young Industrial Site
Interchange of I-95 and Center Road
Timmonsville, SC 29161

Inquiry Number: 3800161.5
December 05, 2013

The EDR Aerial Photo Decade Package

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

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Date EDR Searched Historical Sources:

Aerial Photography December 05, 2013

Target Property:

Interchange of I-95 and Center Road
Timmonsville, SC 29161

Year	***Scale***	***Details***	***Source***
1957	Aerial Photograph. Scale: 1"=500'	Panel #: 34079-A8, Sardis, SC;/Flight Date: March 30, 1957	EDR
1957	Aerial Photograph. Scale: 1"=500'	Panel #: 34079-A8, Sardis, SC;/Flight Date: March 30, 1957	EDR
1957	Aerial Photograph. Scale: 1"=500'	Panel #: 34079-A8, Sardis, SC;/Flight Date: March 30, 1957	EDR
1957	Aerial Photograph. Scale: 1"=500'	Panel #: 34079-A8, Sardis, SC;/Flight Date: March 30, 1957	EDR
1961	Aerial Photograph. Scale: 1"=1000'	Panel #: 34079-A8, Sardis, SC;/Flight Date: June 23, 1961	EDR
1975	Aerial Photograph. Scale: 1"=1000'	Panel #: 34079-A8, Sardis, SC;/Flight Date: April 21, 1975	EDR
1977	Aerial Photograph. Scale: 1"=750'	Panel #: 34079-A8, Sardis, SC;/Flight Date: January 19, 1977	EDR
1989	Aerial Photograph. Scale: 1"=750'	Panel #: 34079-A8, Sardis, SC;/Flight Date: February 09, 1989	EDR
1994	Aerial Photograph. Scale: 1"=500'	Panel #: 34079-A8, Sardis, SC;/DOQQ - acquisition dates: February 14, 1994	EDR
1994	Aerial Photograph. Scale: 1"=500'	Panel #: 34079-A8, Sardis, SC;/DOQQ - acquisition dates: February 14, 1994	EDR
1994	Aerial Photograph. Scale: 1"=500'	Panel #: 34079-A8, Sardis, SC;/DOQQ - acquisition dates: February 14, 1994	EDR
1994	Aerial Photograph. Scale: 1"=500'	Panel #: 34079-A8, Sardis, SC;/DOQQ - acquisition dates: February 14, 1994	EDR
1999	Aerial Photograph. Scale: 1"=750'	Panel #: 34079-A8, Sardis, SC;/Flight Date: February 14, 1999	EDR
2005	Aerial Photograph. Scale: 1"=500'	Panel #: 34079-A8, Sardis, SC;/Flight Year: 2005	EDR
2005	Aerial Photograph. Scale: 1"=500'	Panel #: 34079-A8, Sardis, SC;/Flight Year: 2005	EDR
2005	Aerial Photograph. Scale: 1"=500'	Panel #: 34079-A8, Sardis, SC;/Flight Year: 2005	EDR
2005	Aerial Photograph. Scale: 1"=500'	Panel #: 34079-A8, Sardis, SC;/Flight Year: 2005	EDR
2006	Aerial Photograph. Scale: 1"=500'	Panel #: 34079-A8, Sardis, SC;/Flight Year: 2006	EDR
2006	Aerial Photograph. Scale: 1"=500'	Panel #: 34079-A8, Sardis, SC;/Flight Year: 2006	EDR

Year	*Scale*	*Details*	*Source*
2006	Aerial Photograph. Scale: 1"=500'	Panel #: 34079-A8, Sardis, SC;/Flight Year: 2006	EDR
2006	Aerial Photograph. Scale: 1"=500'	Panel #: 34079-A8, Sardis, SC;/Flight Year: 2006	EDR
2009	Aerial Photograph. Scale: 1"=500'	Panel #: 34079-A8, Sardis, SC;/Flight Year: 2009	EDR
2009	Aerial Photograph. Scale: 1"=500'	Panel #: 34079-A8, Sardis, SC;/Flight Year: 2009	EDR
2009	Aerial Photograph. Scale: 1"=500'	Panel #: 34079-A8, Sardis, SC;/Flight Year: 2009	EDR
2009	Aerial Photograph. Scale: 1"=500'	Panel #: 34079-A8, Sardis, SC;/Flight Year: 2009	EDR
2011	Aerial Photograph. Scale: 1"=500'	Panel #: 34079-A8, Sardis, SC;/Flight Year: 2011	EDR
2011	Aerial Photograph. Scale: 1"=500'	Panel #: 34079-A8, Sardis, SC;/Flight Year: 2011	EDR
2011	Aerial Photograph. Scale: 1"=500'	Panel #: 34079-A8, Sardis, SC;/Flight Year: 2011	EDR
2011	Aerial Photograph. Scale: 1"=500'	Panel #: 34079-A8, Sardis, SC;/Flight Year: 2011	EDR

INQUIRY #: 3800161.5

YEAR: 1957

= 500'

N

INQUIRY #: 3800161.5

YEAR: 1957

= 500'

N

INQUIRY #: 3800161.5
YEAR: 1957
= 500'
N

INQUIRY #: 3800161.5
YEAR: 1957
= 500'
N

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YEAR: 1961
= 1000'
N

INQUIRY #: 3800161.5
YEAR: 1975
= 1000'
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INQUIRY #: 3800161.5
YEAR: 1977
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INQUIRY #: 3800161.5
YEAR: 1989
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INQUIRY #: 3800161.5
YEAR: 1994
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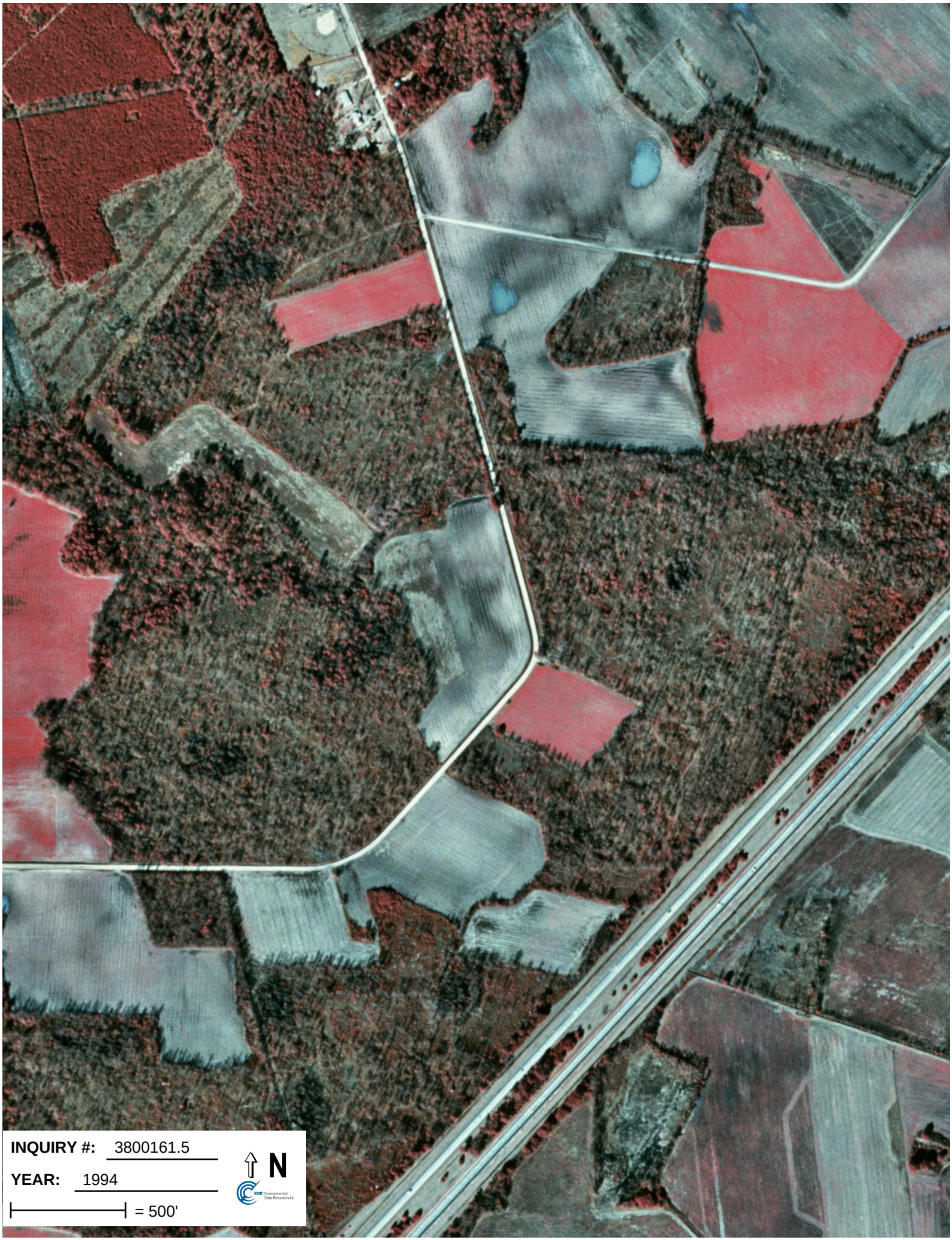
EDR Environmental Data Resources Inc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EDR Environmental Data Resources Inc

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YEAR: 2011
= 500'
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INQUIRY #: 3800161.5
YEAR: 2011
= 500'
N
EDR Environmental Data Resources Inc

Mclendon Young Industrial Site
Interchange of I-95 and Center Road
Timmonsville, SC 29161

Inquiry Number: 3800161.3
December 03, 2013

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12/03/13

Site Name:
Mclendon Young Industrial Site
Interchange of I-95 and Center
Timmonsville, SC 29161

Client Name:
Alliance Consulting Engineers,
1201 Main Street
Columbia, SC 29201

EDR Inquiry # 3800161.3

Contact: Tyler Gilstrap

EDR® Environmental Data Resources Inc

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Certified Sanborn Results:

Site Name:	Mclendon Young Industrial Site
Address:	Interchange of I-95 and Center Road
City, State, Zip:	Timmonsville, SC 29161
Cross Street:	
P.O. #	NA
Project:	13140-0021
Certification #	93BC-4D45-86B2

Sanborn® Library search results
Certification # 93BC-4D45-86B2

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Mclendon Young Industrial Site
Interchange of I-95 and Center Road
Timmonsville, SC 29161

Inquiry Number: 3800161.4
December 03, 2013

EDR Historical Topographic Map Report

EDR® Environmental Data Resources Inc

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Milford, CT 06461
800.352.0050
www.edrnet.com

EDR Historical Topographic Map Report

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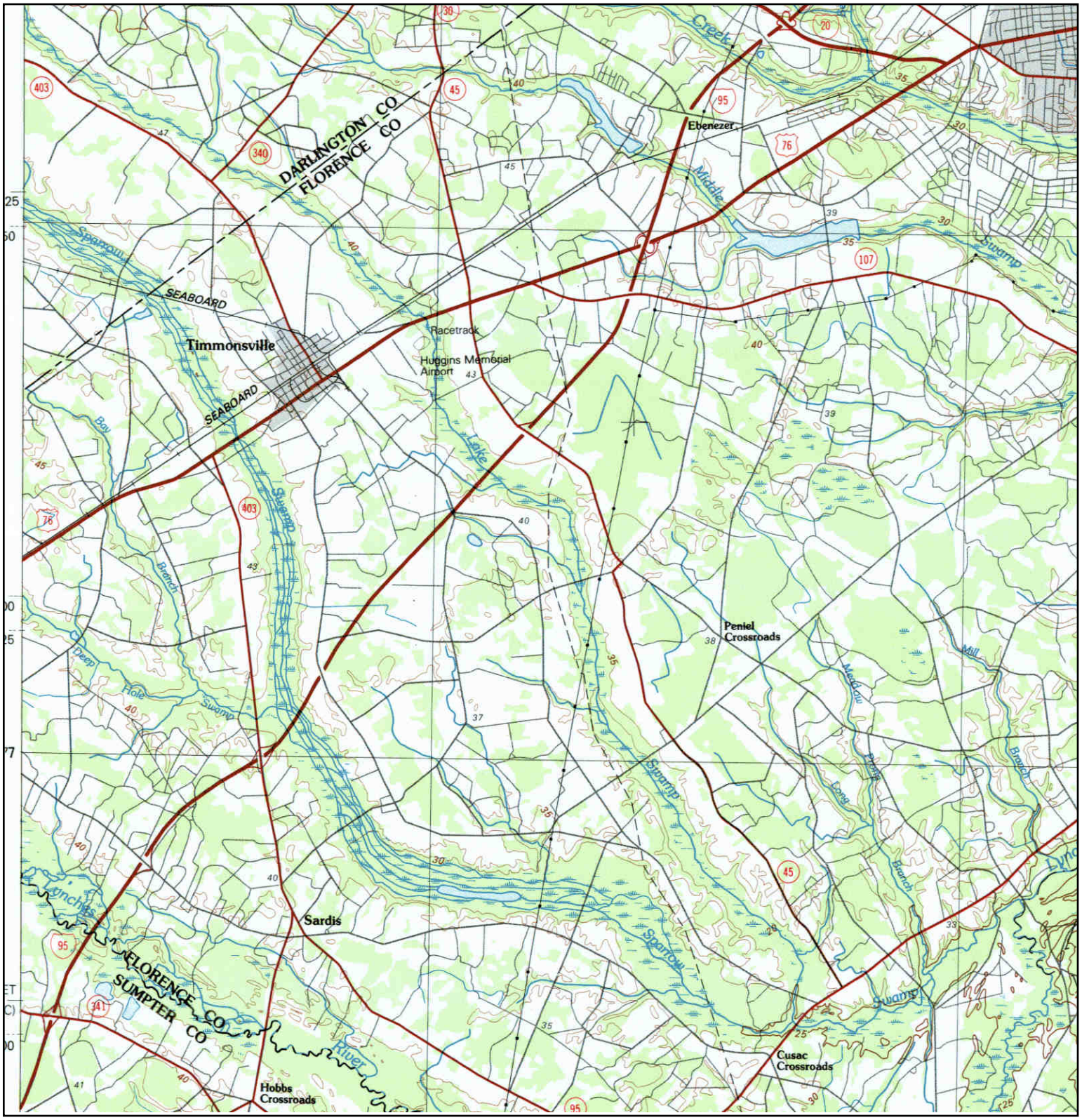
Historical Topographic Map

N	TARGET QUAD NAME: FLORENCE WEST MAP YEAR: 1940 SERIES: 15 SCALE: 1:62500	SITE NAME: Mclendon Young Industrial Site ADDRESS: Interchange of I-95 and Center Road Timmonsville, SC 29161 LAT/LONG: 34.1003 / -79.9181	CLIENT: Alliance Consulting Engineers, Inc CONTACT: Tyler Gilstrap INQUIRY#: 3800161.4 RESEARCH DATE: 12/03/2013

Historical Topographic Map

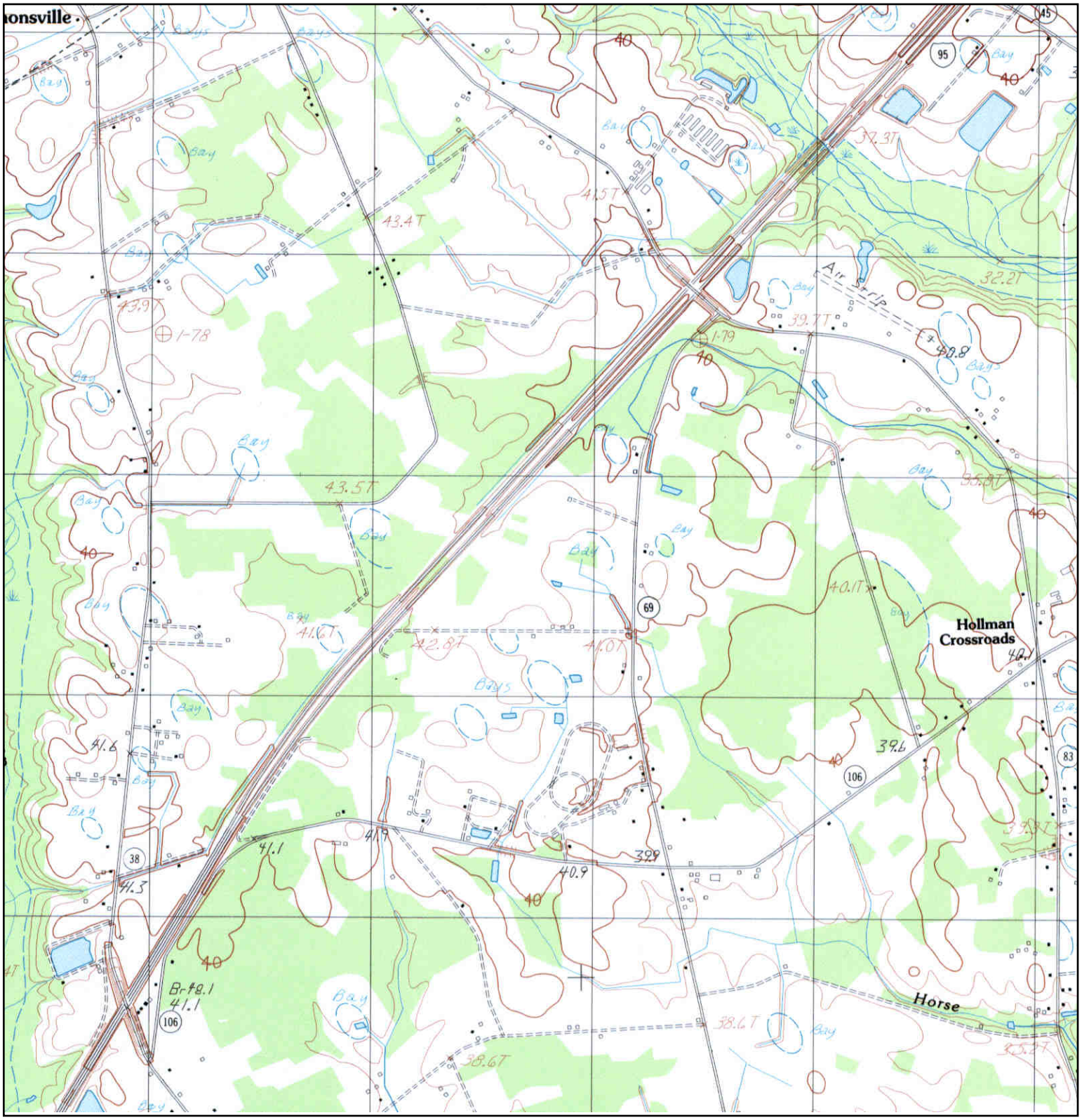
N	TARGET QUAD NAME: FLORENCE WEST MAP YEAR: 1945 SERIES: 15 SCALE: 1:62500	SITE NAME: Mclendon Young Industrial Site ADDRESS: Interchange of I-95 and Center Road Timmonsville, SC 29161 LAT/LONG: 34.1003 / -79.9181	CLIENT: Alliance Consulting Engineers, Inc CONTACT: Tyler Gilstrap INQUIRY#: 3800161.4 RESEARCH DATE: 12/03/2013

Historical Topographic Map



N	TARGET QUAD NAME: FLORENCE MAP YEAR: 1983 SERIES: 30 SCALE: 1:100000	SITE NAME: Mclendon Young Industrial Site ADDRESS: Interchange of I-95 and Center Road Timmonsville, SC 29161 LAT/LONG: 34.1003 / -79.9181	CLIENT: Alliance Consulting Engineers, Inc CONTACT: Tyler Gilstrap INQUIRY#: 3800161.4 RESEARCH DATE: 12/03/2013

Historical Topographic Map



N	TARGET QUAD NAME: SARDIS MAP YEAR: 1986 PROVISIONAL SERIES: 7.5 SCALE: 1:24000	SITE NAME: Mclendon Young Industrial Site ADDRESS: Interchange of I-95 and Center Road Timmonsville, SC 29161 LAT/LONG: 34.1003 / -79.9181	CLIENT: Alliance Consulting Engineers, Inc CONTACT: Tyler Gilstrap INQUIRY#: 3800161.4 RESEARCH DATE: 12/03/2013

Mclendon Young Industrial Site
Interchange of I-95 and Center Road
Timmonsville, SC 29161

Inquiry Number: 3800161.6
December 06, 2013

The EDR-City Directory Image Report

Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION

Executive Summary

Findings

City Directory Images

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with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available city directory data at 5 year intervals.

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

Year	*Target Street*	*Cross Street*	*Source*
2013	☑	☐	Cole Information Services
2008	☑	☐	Cole Information Services
2003	☑	☐	Cole Information Services
1999	☑	☐	Cole Information Services

RECORD SOURCES

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FINDINGS

TARGET PROPERTY STREET

Interchange of I-95 and Center Road
Timmonsville, SC 29161

Year	*CD Image*	*Source*
CENTER RD		
2013	pg A1	Cole Information Services
2008	pg A2	Cole Information Services
2003	pg A3	Cole Information Services
1999	pg A4	Cole Information Services

FINDINGS

CROSS STREETS

No Cross Streets Identified

City Directory Images

Target Street	Cross Street	Source
✓	-	Cole Information Services

CENTER RD 2013

1	MCKAY FLYING SERVICE
1401	JASON PIERCE
1418	THOMAS TURNER
1428	LANTER RICK & JANET
	RICK LANTER
1502	KATRINA PARKER
1510	LUTHER MATTHEWS
1513	JAMES PARKER
1515	EUGENE TOLER
1517	OCCUPANT UNKNOWN
	WILLIAM SUTTON
1519	OCCUPANT UNKNOWN
1523	LINDA BELL
1540	ERIC RABON
1707	OCCUPANT UNKNOWN
1730	RUSSELL WITHERSPOON
1747	LINDA MCKAY
1802	ANNA HOWELL
1825	PLEASANT ISGETT
1833	OCCUPANT UNKNOWN
1837	PHIL PIERCE
1848	OCCUPANT UNKNOWN

Target Street	Cross Street	Source
✓	-	Cole Information Services

CENTER RD 2008

1401	JOHN PIERCE
1418	PATRICIA TURNER
1428	RICK LANTER
1502	KATRINA PARKER
1510	LUTHER MATTHEWS
1513	TIFFANY PARKER
1515	EUGENE TOLER
1517	PAUL PARKER
	WILLIAM SUTTON
1540	ERIC RABON
	GLENVIEW FARM KENNEL
	GLENVIEW FARM LLC
1707	JAQUELINE ATKINSON
1730	RUSSELL WITHERSPOON
1747	RICHARD MCKAY
1802	ANNA HOWELL
1807	OCCUPANT UNKNOWN
1825	PLEASANT ISGETT
1833	OCCUPANT UNKNOWN
1837	PHIL PIERCE
1848	OCCUPANT UNKNOWN

Target Street	Cross Street	Source
✓	-	Cole Information Services

CENTER RD 2003

902	DENNIS DORRIETY
958	DEBBIE JOHN
1418	PATRICIA TURNER
1428	RICK LANTER
1515	EUGENE TOLER
1517	PAUL PARKER
1519	DAMON KIGHT
1540	CHARLES RABON
	ERIC RABON
	GLENVIEW FARM
1707	OCCUPANT UNKNOWN
1730	V WITHERSPOON
1802	ANNA HOWELL
1807	JAMES MCKENZIE
1825	PLEASANT ISGETT
1833	PHIL PIERCE
1837	MARVIN PIERCE
1848	BEVERLY SCIBELLI

Target Street	Cross Street	Source
✓	-	Cole Information Services

CENTER RD 1999

772	WILLIAM EDWARDS
802	A WHITE
819	JACK TRULUCK
820	SAMMY WHITE
823	H HOWELL
828	BERT JOHN
902	DENNIS DORRIETY
914	G CARRAWAY
958	DEBBIE JOHN
979	N TOMLINSON
	STACI PURVIS
1111	GILBERT LATHROP CONSTRUCTION
1144	ROBERT CLARK
1200	ROBERT BURDETTE
1401	FRANCES PIERCE
1418	WOODY MCKAY
1473	OCCUPANT UNKNOWN
1510	L MATTHEWS
1515	PAUL PARKER
1540	ERIC RABON
1707	OCCUPANT UNKNOWN
1730	RUSSELL WITHERSPOON
1802	J HOWELL
1807	EDWIN PIERCE
1825	P ISGETT
1833	PHIL PIERCE
1837	MARVIN PIERCE

APPENDIX C

INTERVIEW DOCUMENTATION

ALLIANCE CONSULTING ENGINEERS, INC.
Midlands Regional Office & Corporate Headquarters
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 OF THE McLENDON YOUNG INDUSTRIAL PARK IN FLORENCE COUNTY, SOUTH CAROLINA	PROJECT NO.: 13140-0021
CLIENT: FLORENCE COUNTY ECONOMIC DEVELOPMENT PARTNERSHIP	
PROJECT ADDRESS: NEAR THE INTERSECTION OF HONDA WAY/CENTER ROAD (S-21-83) AND YOUNG ROAD (S-21-69), FLORENCE COUNTY, SOUTH CAROLINA	

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

I. Site Visit and Owner Inquiry

Please indicate the appropriate response to the following questions:

Question	Key Site Manager
1. Is the *property* or any *adjoining property* used for an industrial use?	NO
2. To the best of your knowledge, has the *property* or any *adjoining property* been used for an industrial use in the past?	NO
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?	NO
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?	NO
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?	NO
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?	NO
7. Has fill dirt been brought onto the *property* that originated from a contaminated site or that is of an unknown origin?	NO

Unk = "Unknown" or "No Response"

PHASE I ESA - QUESTIONNAIRE

PROJECT NAME: PHASE I ESA OF THE MCLENDON YOUNG INDUSTRIAL PARK IN FLORENCE COUNTY, SOUTH CAROLINA

CLIENT: FLORENCE COUNTY ECONOMIC DEVELOPMENT PARTNERSHIP

ADDRESS: NEAR THE INTERSECTION OF HONDA WAY/CENTER ROAD (S-21-83) AND YOUNG ROAD (S-21-69), FLORENCE COUNTY, SOUTH CAROLINA

Question	Key Site Manager
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?	NO
9. Is there currently, or to the best of your knowledge has there been previously, any stained soil on the *property*?	NO
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*?	NO
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*?	NO
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?	NO
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?	NO
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*?	NO
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*?	NO
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*?	NO
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*?	NO
18. Does the *property* discharge wastewater on or adjacent to the *property* other than stormwater into a sanitary sewer system?	NO

Unk = "Unknown" or "No Response"

Question	Key Site Manager
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*?	NO
20. Is there a transformer, capacitor, or any hydraulic equipment for which there are any records indicating the presence of PCBs?	NO

Unk = "Unknown" or "No Response"

II. 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 of interviewee(s): Mr. Joe W. King, Executive Director

Interviewee's address: P.O. Box 100549
Florence, SC 29502

Interviewee's phone number: (843) 676-8796

Interviewee's e-mail address: jwking@florenceco.org

Copies of the completed questionnaire have been filed at:
Alliance Consulting Engineers, Inc., Post Office Box 8147, Columbia, South Carolina 29202-8147

Copies of the completed questionnaire have been mailed or delivered to:
Florence County Economic Development Partnership, Post Office Box 100549, Florence, South Carolina 29502

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.

Joe W. King
Signature (Key Site Manager)

4/28/14
Date

ALLIANCE CONSULTING ENGINEERS, INC.
Midlands Regional Office & Corporate Headquarters
Post Office Box 8147
Columbia, SC 29202-8147
Phone: (803) 779-2078 Fax: (803) 779-2079
www.allianceCE.com

ALLIANCE CONSULTING ENGINEERS | 10 YEARS OF EXCELLENCE

Phase I Environmental Site Assessment
User Questionnaire

PROJECT NAME: PHASE I ESA OF THE McLENDON YOUNG INDUSTRIAL PARK IN FLORENCE COUNTY, SOUTH CAROLINA	PROJECT NO.: 13140-0021

CLIENT: FLORENCE COUNTY ECONOMIC DEVELOPMENT PARTNERSHIP

PROJECT ADDRESS: NEAR THE INTERSECTION OF HONDA WAY/CENTER ROAD (S-21-83) AND YOUNG ROAD (S-21-69), FLORENCE COUNTY, SOUTH CAROLINA

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

Please indicate the appropriate response to the following questions:

Question	User Response
1. Are you aware of any environmental cleanup liens against the *property* that are filed or recorded under federal, tribal, state or local law?	NO
2. Are you aware of any *activity and use limitations (AULs),* such as *engineering controls*, land use restrictions or *institutional controls* that are in place at the site and/or have been filed or recorded in a registry under federal, tribal, state or local law?	NO
3. As the *user* of this *ESA* do you have any specialized knowledge or experience related to the *property* or nearby properties? For example, are you involved in the same line of business as the current or former *occupants* of the *property* or an adjoining *property* so that you would have specialized knowledge of the chemicals and processes used by this type of business?	N/A- NO USER yet
4A. Does the purchase price being paid for this *property* reasonably reflect the fair market value of the *property?*	"
4B. If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the *property?*	"
5. Are you aware of commonly known or *reasonably ascertainable* information about the *property* that would help the *environmental professional* to identify conditions indicative of releases or threatened releases?	NO

ALLIANCE CONSULTING ENGINEERS | 10 YEARS OF EXCELLENCE

PHASE I ESA - USER QUESTIONNAIRE

PROJECT NAME: PHASE I ESA OF THE MCLENDON YOUNG INDUSTRIAL PARK IN FLORENCE COUNTY, SOUTH CAROLINA

CLIENT: FLORENCE COUNTY ECONOMIC DEVELOPMENT PARTNERSHIP

ADDRESS: NEAR THE INTERSECTION OF HONDA WAY/CENTER ROAD (S-21-83) AND YOUNG ROAD (S-21-69), FLORENCE COUNTY, SOUTH CAROLINA

Question	User Response
5A. Do you know the past uses of the *property?*	Agriculture, Timber
5B. Do you know specific chemicals that are present or once were present at the *property*?	NO
5C. Do you know of spills or other chemical releases that have taken place at the *property?*	NO
5D. Do you know of any environmental cleanups that have taken place at the *property?*	NO
6. As the *user* of this *ESA*, based on your knowledge and experience related to the *property* are there any *obvious* indicators that point to the presence or likely presence of contamination at the *property?*	NO

Name of interviewee(s): Mr. Joe W. King, Executive Director

Interviewee's address: P.O. Box 100549
Florence, SC 29502

Interviewee's phone number: (843) 676-8796

Interviewee's e-mail address: jwking@florenceco.org

Signature (User) — Date 4/28/14

ALLIANCE CONSULTING ENGINEERS

APPENDIX D

SENIOR ENVIRONMENTAL PROFESSIONAL'S RESUME

James W. Frost, II, P.E.
Principal

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 Principal 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 shacks 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 feet 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 Contact 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.

Allendale County – Pointe Salkehatchie Industrial Park for SouthernCarolina Regional Development Alliance

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

Clarendon County – Former Wells Lamont Facility for the Clarendon County Development Board

Clarendon County – Former LBT Stainless Facility for Daveclo Properties U.S., Inc.

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

Chester County – Colonel's Pointe Business Park for Lancaster and Chester Railway Company

Chester County – SC Highway 9 Industrial Complex for Alvin C. Thompson and Chester County Economic Development

Chester County – Tract 'P' in Chester County, South Carolina for Springland, Inc. and Chester County Economic Development

Chester County – Oliphant #1 Industrial Site for AD Oliphant, III; RA Oliphant, IV; and Chester County Economic Development

Chesterfield County – Ridgeview Industrial Park for the Chesterfield County Economic Development Alliance

Chesterfield County – Carolinas Centre Industrial Park for the Chesterfield County Economic Development Alliance

Chesterfield County – The Approximately 7-Acre Dove Sutton Road Site for Lynches River Electric Cooperative, Inc.

Chesterfield County – The Approximately 9.5-Acre Dove Sutton Road Site for Lynches River Electric Cooperative, Inc.

Chesterfield County – The Approximately 15-Acre Dove Sutton Road Site for Lynches River Electric Cooperative, Inc.

Chesterfield County – The Lewis Property for Chesterfield County

Darlington County – Auddie Brown Chevrolet Site for Auddie Brown Chevrolet and Ally Bank

Dillon County – The Dan Rogers Industrial Park for Dillon County, South Carolina

Dillon County – The Latta Commerce Industrial Park for Dillon County, South Carolina

Dillon County – Tract 2 at the Northeastern Commerce Center for Marlboro Development Team, Inc.

Dillon County – Jeff Price Industrial Park for North Eastern Strategic Alliance (NESA) and Dillon County Economic Development Partnership

Fairfield County – The Walter B. Brown II Industrial Park for Fairfield County Economic Development

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

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

Lexington County – The Saxe Gotha Industrial Park for Lexington County

Lexington County – Project Rx at the Saxe Gotha Industrial Park for Nephron SC, Inc.

Lexington County – Nephron Campus at the Saxe Gotha Industrial Park for SunTrust Banks, Inc. and Nephron SC, Inc.

Lexington County – Saxe Gotha Industrial Park Phase II for Saxe Gotha II, LLC; Tom Foolery, LLC; and Bristly Acres, LLC

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

Marlboro County – The Marlboro County Industrial Park for Marlboro County, South Carolina

Marlboro County – The Proposed Addition to the Marlboro County Industrial Park in Marlboro County, South Carolina

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

Orangeburg County – Metts Property for the Orangeburg County Development Commission

Orangeburg County – Portion of the National Guard Armory Property for the Orangeburg County Development Commission

Orangeburg County – The Approximately 350-Acre Southern Farms Site for Southern Farms, Inc.

Saluda County – Project Z Site for Sunny Z Foods, Inc. and Sunny Z Real Estate Holdings, Inc.

Sumter County – Pocotaligo 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.

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