



Engineering A Brighter Future®

February 22, 2018

Mr. Les Parker  
United States Army Corps of  
Engineers Charleston District  
Columbia Regulatory Field Office  
Strom Thurmond Federal Building  
1835 Assembly Street, Rm. 865 B-1  
Columbia, South Carolina 29201

Received  
2-26-18

**RE: Jurisdictional Determination Request**

Willow Oak Quarry

TMS #: 062-00-00-015; 062-00-00-027; 062-00-00-028; 062-00-00-011; 062-00-00-014; 080-00-00-012; and 080-00-00-013

Kershaw County, South Carolina

Dear Mr. Parker:

On behalf of Willow Oak Quarry, LLC and performing as its agent, Johnson, Mirmiran & Thompson (JMT) is requesting a jurisdictional review of portions of the above-mentioned parcels for consistency with the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Atlantic and Gulf Coastal Plain Region (Version 2.0)*.

JMT personnel visited the quarry on December 8<sup>th</sup>, 2017. The 120.28-acre Willow Oak Quarry is adjacent to County Line Road, Quarry Road, Red Maple Road, and Sawmill Road in Kershaw County. The project areas consist of all, or portions of, Kershaw Parcel ID No. 062-00-00-015, 062-00-00-027, 062-00-00-028, 062-00-00-011, 062-00-00-014, 080-00-00-012, and 080-00-00-013.

Field studies found the presence of five forested wetlands within the project area. The forested wetlands were dominated by a canopy of *Pinus taeda*, *Acer rubrum*, *Liquidambar styraciflua*, *Quercus nigra*. And *Ilex opaca*. At the time of the survey, some portions of the wetland had standing water present. Additionally, sphagnum mats/moss trim line, saturated soil, high water table, drainage patterns, geomorphic position, water marks, and water-stained leaves were observed within the features. Soil profiles within the forested wetlands exhibited a strong A12 – Thick Dark Surface or F3- Depleted Matrix hydric soil indicators, where the soil texture is primarily sandy loam. The adjacent uplands within the tract exhibit a weak hydrophytic vegetation community, no hydric soil indicators and no hydrology indicators.

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Please use the attached information and forthcoming survey to issue an Approved Jurisdictional Determination. Contact me if you need to schedule a site inspection to confirm these findings. If you have any questions or need further information, please do not hesitate to contact me at 843-779-3713, tgrayson@jmt.com, or Alyson Frisch at 843-779-3714, afrisch@jmt.com.

Very truly yours,

JOHNSON, MIRMIRAN & THOMPSON, INC.

Tory Grayson  
South Carolina Natural and Cultural Resources

Alyson Frisch  
South Carolina Natural and Cultural Resources

Enclosures:

Enclosure A: Property Owners Mailing List

Enclosure B: Jurisdictional Determination Request Form

Enclosure C: Figures

- Vicinity Map (Figure 1 of 9)
- Location Map (Figure 2 of 9)
- USGS Topography Map (Figure 3 of 9)
- NRCS Hydric Soil Rating Map (Figure 4 of 9)
- USFWS National Wetland Inventory Map (Figure 5 of 9) LIDAR Digital
- Elevation Map (Figure 6 of 9) Delineated Aquatic Feature Map (Figure 7 of 9)
- Review Map (Figure 8 of 9)
- Parcel Map (Figure 9 of 9)

Enclosure D: Delineated Feature Summary Table

Enclosure E: Wetland Determination Data Forms

- Upland Data Sheets with Representative Photographs (UDP1, UDP2)
- Wetland Data Sheets with Representative Photographs (WDP1, WDP2)

Cc: Mr. Dan Stuckey - Willow Oak Quarry, LLC

## Enclosure A: Property Owners Mailing List

## Property Owners Mailing List

Applicant Name: Willow Oak Quarry, LLC

Project Name: Willow Oak Quarry

Property Owner Name	Mailing Address
James C. Catoe	4812 Briarfield Rd. Columbia, SC 29206
Grover C. Gaskin	34 Sawmill Rd. Kershaw, SC 29067
Thomas Shannon McClagherty	P.O. Box 975 Emory, VA 24327
Rita Williams	504 County Line Rd. Kershaw, SC 29067

## Enclosure B: Jurisdictional Determination Request

U.S. Army Corps of Engineers – Charleston District - Regulatory Division  
**REQUEST FOR CORPS JURISDICTIONAL DETERMINATION (JD) / DELINEATION**  
(For Jurisdictional Status and Identifying Wetlands and Other Aquatic Resources)

**I. PROPERTY AND AGENT INFORMATION**

**A. Site Details/Location:**

Site Name: Willow Oak Quarry Date: December 22, 2017  
City/Township/Parish: Kershaw, South Carolina County: Kershaw County  
Latitude/Longitude: 34.483489; -80.617778 Acreage: 120.28  
Tax Map Sequence (TMS) #(s): 062-00-00-015; 062-00-00-027; 062-00-00-028; 062-00-00-011; 062-00-00-014; 080-00-00-012; and 080-00-00-013  
Property Address(es): 168 Quarry Road, Kershaw, SC 29067

Please attach a survey/plat map and vicinity map identifying location and review area for the JD/delineation. An accurate depiction of the review area must be provided (survey, tax map, or GPS coordinates). Tax maps may only be used if the site includes the entire tax map parcel.

**B. Requestor of Jurisdictional Determination/Delineation (if there are multiple property owners, please attach additional pages)**

Name: Dan Stuckey, Managing Member Willow Oak Quarry, LLC  
Company Name (if applicable): Willow Oak Quarry, LLC  
Address: 98 Centermarsh Lane, Pawleys Island, South Carolina 29585  
Phone: 843-979-2221 Email: dhs@americantimberlands.com

Check one:  I currently own this property  
 I plan to purchase this property  
 Other, please explain \_\_\_\_\_

**C. Agent/Environmental Consultant Acting on Behalf of the Requestor (if applicable):**

Consultant/Agent Name: Tory Grayson and Alyson Frisch  
Company Name: Johnson, Mirmiran, & Thompson  
Address: 952 Houston Northcull Blvd., Suite 100, Mt. Pleasant, SC 29464 Phone: 843-558-2624  
Email: tgrayson@jmt.com; afrisch@jmt.com

**II. REASON FOR REQUEST (check all that apply)**

- I intend to construct/develop a project or perform activities on this site which would be designed to avoid all aquatic resources.
- I intend to construct/develop a project or perform activities on this site which would be designed to avoid all jurisdictional aquatic resources under Corps authority.
- I intend to construct/develop a project or perform activities on this site which may require authorization from the Corps, and the Jurisdictional Determination would be used to avoid and minimize impacts to jurisdictional aquatic resources and as an initial step in a future permitting process.
- I intend to construct/develop a project or perform activities on this site which may require authorization from the Corps; this request is accompanied by my permit application and the jurisdictional determination is to be used in the permitting process.
- I intend to construct/develop a project or perform activities in a navigable water of the U.S. which is subject to the ebb and flow of the tide.
- A Corps jurisdictional determination is required in order to obtain my local/state authorization.
- I intend to contest jurisdiction over a particular aquatic resource and the request the Corps to confirm that jurisdiction does/does not exist over the aquatic resource on the parcel.
- I believe that the site may be comprised entirely of dry land.
- Other: \_\_\_\_\_

**\*Authorities:** Rivers and Harbors Act, Section 10, 33 USC 403; Clean Water Act, Section 404, 33 USC 1344; Marine Protection, Research, and Sanctuaries Act, Section 103, 33 USC 1413; Regulatory Program of the U.S. Army Corps of Engineers; Final Rule for 33 CFR Parts 320-332.

**Principal Purpose:** The information that you provide will be used in evaluating your request to determine whether there are any aquatic resources within the project area subject to federal jurisdiction under the regulatory authorities referenced above.

**Routine Uses:** This information may be shared with the Department of Justice and other federal, state, and local government agencies, and the public, and may be made available as part of a public notice as required by federal law. Your name and property location where federal jurisdiction is to be determined will be included in the approved jurisdictional determination (AJD), which will be made available to the public on the District's website and on the Headquarters USACE website.

**Disclosure:** Submission of requested information is voluntary; however, if information is not provided, the request for an jurisdictional determination cannot be evaluated nor can a jurisdictional determination be issued.

**III. TYPE OF REQUEST:**

- Approved<sup>1</sup> Jurisdictional Determination (AJD) Only
- Preliminary<sup>2</sup> Jurisdictional Determination (PJD) Only
- Approved Jurisdictional Determination (AJD) with submittal of a Pre-Construction Notification or Department of the Army permit application
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- Delineation of Wetlands and/or Other Aquatic Resources Only Conducted By Agent/Environmental Consultant with submittal of a Pre-Construction Notification or Department of the Army permit application (No jurisdictional determination requested)
- I request that the Corps delineate the wetlands and/or other aquatic resources that may be present on my property with the attached Pre-Construction Notification or Department of the Army permit application
- I request that the Corps delineate the wetlands and/or other aquatic resources that may be present on my property with an AJD or PJD
- "No Permit Required" (NPR) Letter as I believe my proposed activity is not regulated<sup>3</sup>
- Unclear as to which jurisdictional determination I would like to request and require additional information to inform my decision

<sup>1</sup>Approved – An AJD is defined in Corps regulations at 33 CFR 331.2. As explained in further detail in RGL 16-01, an AJD is used to indicate that this office has identified the presence or absence of wetlands and/or other aquatic resources on a site, including their accurate location(s) and boundaries, as well as their jurisdictional status. AJDs are valid for 5 years.

<sup>2</sup>Preliminary – A PJD is defined in Corps regulations at 33 CFR 331.2. As explained in further detail in RGL 16-01, a PJD is used to indicate that this office has identified the approximate location(s) and boundaries of wetlands and/or other aquatic resources on a site that are presumed to be subject to regulatory jurisdiction of the Corps of Engineers. Unlike an AJD, a PJD does not represent a definitive, official determination that there are, or that there are not, jurisdictional aquatic resources on a site, and does not have an expiration date.

<sup>3</sup> "No Permit Required" (NPR) Letter- A NPR letter may be provided by the Corps to notify the requestor that an activity will not require a permit (authorization) from the Corps; this letter can only be used if the proposed activity is not a regulated activity, regardless of where the activity may occur. A NPR letter cannot be used to indicate the presence or absence of wetlands and/or other aquatic resources, nor can it be used to determine their jurisdictional status.

**IV. LEGAL RIGHT OF ENTRY**

By signing below, I am indicating that I have the authority, or am acting as the duly authorized agent of a person or entity with such authority, to and do hereby grant U.S. Army Corps of Engineers personnel right of entry to legally access the property(ies) subject to this request for the purposes of conducting on-site investigations (e.g., digging and refilling shallow holes) and issuing a jurisdictional determination. I acknowledge that my signature is an affirmation that I possess the requisite property rights to request a jurisdictional determination on the properties subject to this request.

98 Centermarsh Lane, Pawleys Island, South Carolina 29585

062-00-00-015; 062-03-00-027; 062-00-00-078; 062-00-00-011; 062-00-00-014; 080-00-00-012; and 080-00-00-01:

Mailing Address

Property Address / TMS #(s)

dhs@americantimberlands.com

843-979-2221

Email Address

Daytime Phone Number

 1-2-18

Dan Stuckey

\*Signature:

Printed Name and Date

<p><b>Charleston Office:</b> US Army Corps of Engineers Regulatory Division 69A Hagood Avenue Charleston, SC 29403 (ph) 843-329-8044</p>	<p><b>Columbia Office:</b> US Army Corps of Engineers Regulatory Office 1835 Assembly Street, Room 865 B-1 Columbia, SC 29201 (ph) 803-253-3444</p>	<p><b>Conway Office:</b> US Army Corps of Engineers Regulatory Office 1849 Industrial Park Road, Room 140 Conway, SC 29526 (ph) 843-365-4238</p>
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4812 Briarfield Rd., Columbia, SC 29206

062-00-00-011; 062-00-00-015; 062-00-00-027; 062-00-00-028

Mailing Address

Property Address / TMS #(s)

803-782-1490

Email Address

Daytime Phone Number

James C. Catoe

\*Signature:

Printed Name and Date

<p>Charleston Office: US Army Corps of Engineers Regulatory Division 89A Hagood Avenue Charleston, SC 29403 (ph) 843-329-8044</p>	<p>Columbia Office: US Army Corps of Engineers Regulatory Office 1835 Assembly Street, Room 865 B-1 Columbia, SC 29201 (ph) 803-253-3444</p>	<p>Conway Office: US Army Corps of Engineers Regulatory Office 1949 Industrial Park Road, Room 140 Conway, SC 29526 (ph) 843-365-4239</p>
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34 Sawmill Rd., Kershaw, SC 29067

080-00-00-013

Mailing Address

Property Address / TMS #(s)

~~803-464-5200~~ 803-475-9424

Email Address

Daytime Phone Number

*George S. Gaskin*

Grover C. Gaskin

\*Signature

Printed Name and Date

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P.O. Box 975 Emory, VA 24327

3559 Flat Rock Rd., Kershaw, SC 29067/ 080-00-00-012

Mailing Address

Property Address / TMS #(s)

tmccclaugherty@hotmail.com

276-274-8610

Email Address

Daytime Phone Number

Thomas S. McLaugherty

Thomas Shannon McLaugherty

\*Signature:

Printed Name and Date

<p>Charleston Office: US Army Corps of Engineers Regulatory Division 69A Hagood Avenue Charleston, SC 29403 (ph) 843-329-8044</p>	<p>Columbia Office: US Army Corps of Engineers Regulatory Office 1835 Assembly Street, Room 865 B-1 Columbia, SC 29201 (ph) 803-263-3444</p>	<p>Conway Office: US Army Corps of Engineers Regulatory Office 1949 Industrial Park Road, Room 140 Conway, SC 29626 (ph) 843-365-4239</p>
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504 County Line Rd., Kershaw, SC 29067

062-00-00-014

Mailing Address

Property Address / TMS #(s)

Email Address

Daytime Phone Number

*Rita M. Williams*

Rita M. Williams

\*Signature:

Printed Name and Date

<p><b>Charleston Office:</b> US Army Corps of Engineers Regulatory Division 69A Hagood Avenue Charleston, SC 29403 (ph) 843-329-8044</p>	<p><b>Columbia Office:</b> US Army Corps of Engineers Regulatory Office 1835 Assembly Street, Room 865 B-1 Columbia, SC 29201 (ph) 803-253-3444</p>	<p><b>Conway Office:</b> US Army Corps of Engineers Regulatory Office 1949 Industrial Park Road, Room 140 Conway, SC 29526 (ph) 843-365-4239</p>
--	---	--

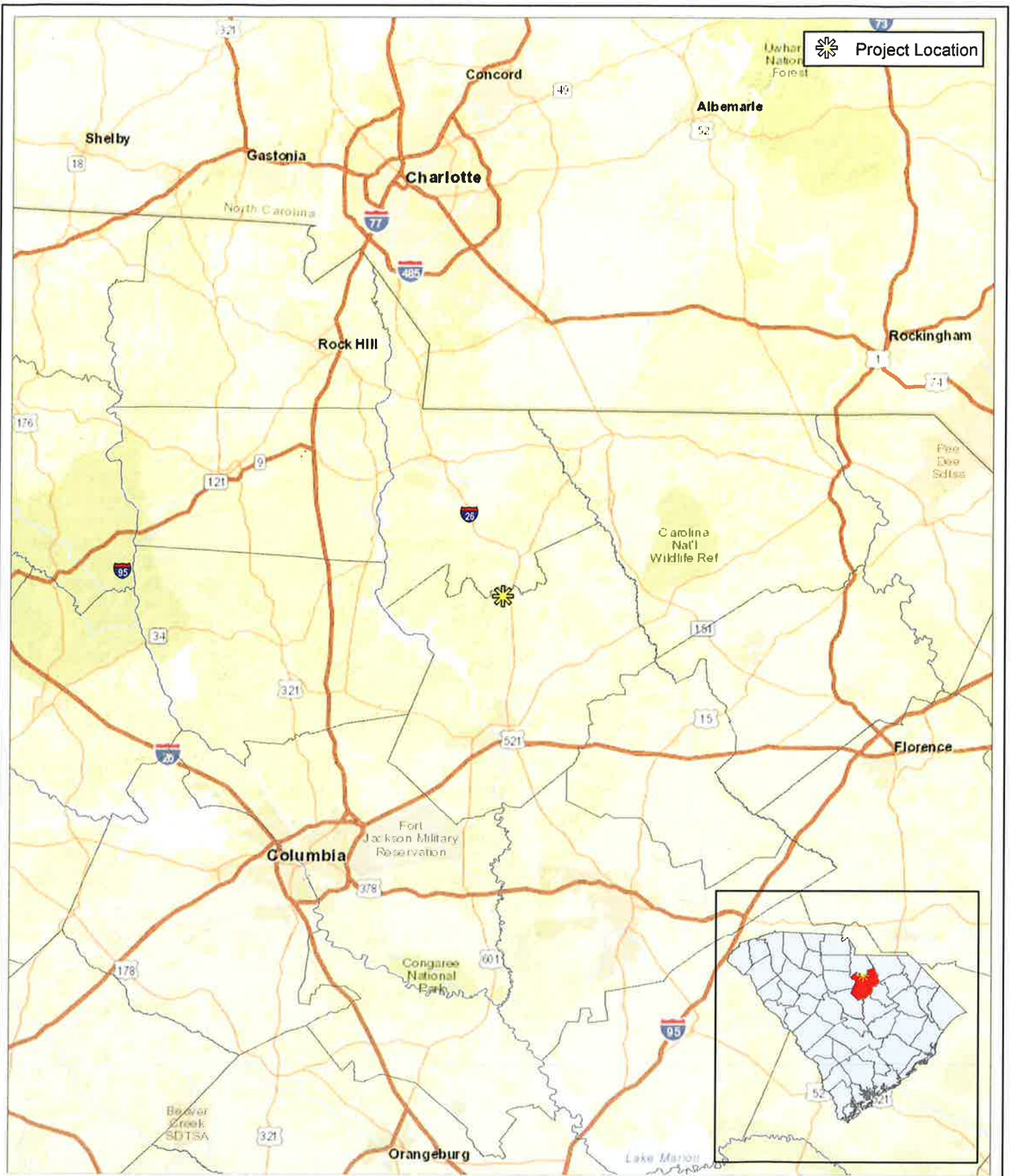
**\*Authorities:** Rivers and Harbors Act, Section 10, 33 USC 403; Clean Water Act, Section 404, 33 USC 1344; Marine Protection, Research, and Sanctuaries Act, Section 103, 33 USC 1413; Regulatory Program of the U.S. Army Corps of Engineers; Final Rule for 33 CFR Parts 320-332.

**Principal Purpose:** The information that you provide will be used in evaluating your request to determine whether there are any aquatic resources within the project area subject to federal jurisdiction under the regulatory authorities referenced above.

**Routine Uses:** This information may be shared with the Department of Justice and other federal, state, and local government agencies, and the public, and may be made available as part of a public notice as required by federal law. Your name and property location where federal jurisdiction is to be determined will be included in the approved jurisdictional determination (AJD), which will be made available to the public on the District's website and on the Headquarters USACE website.

**Disclosure:** Submission of requested information is voluntary; however, if information is not provided, the request for a jurisdictional determination cannot be evaluated nor can a jurisdictional determination be issued.

## Enclosure C: Figures



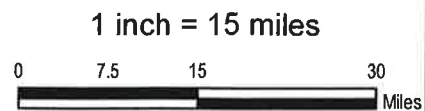
Project Location

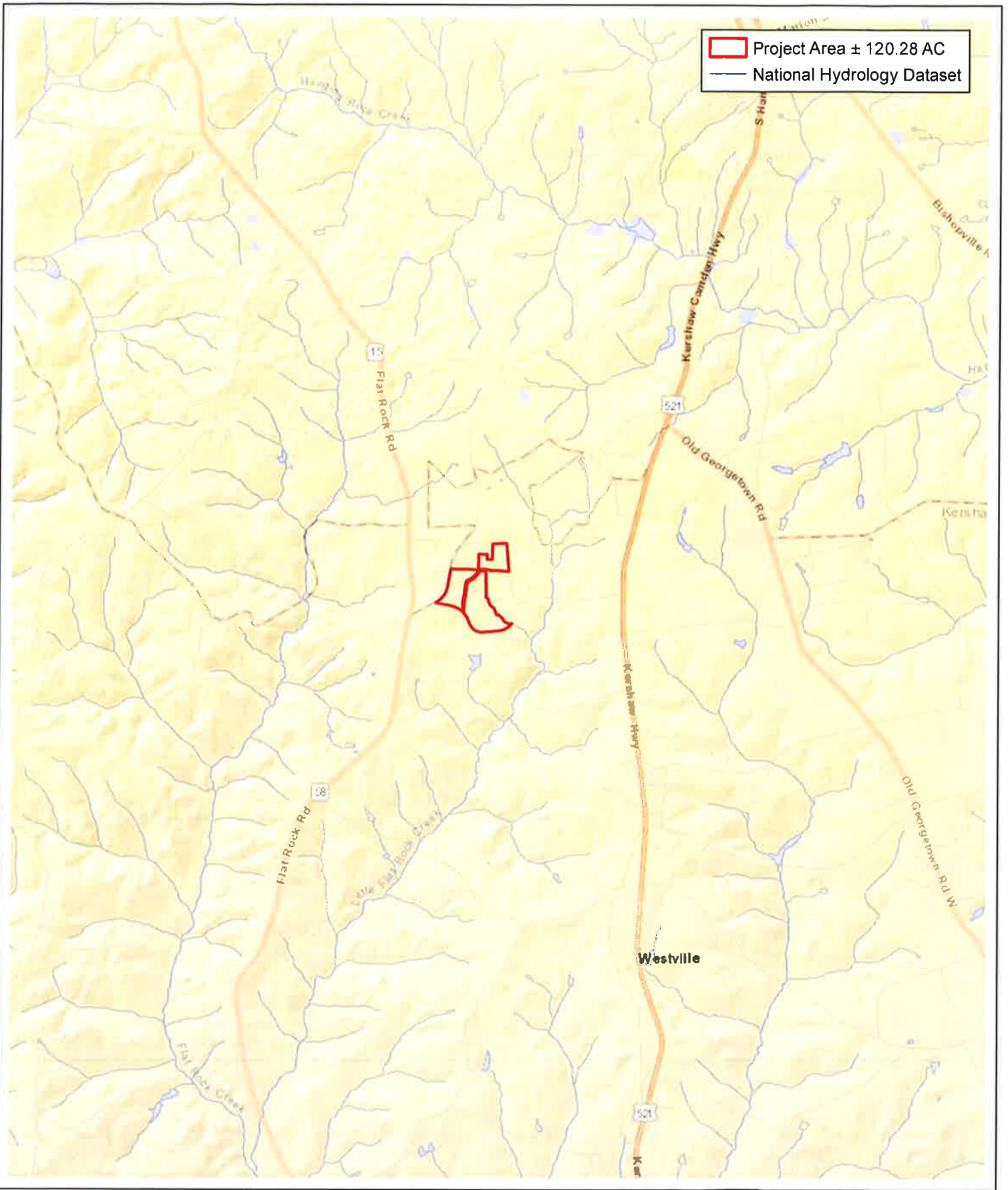


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**Figure 1: Vicinity Map**

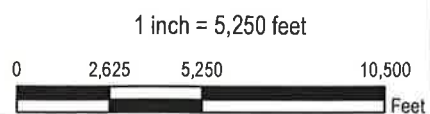
Willow Oak Rock Quarry  
 Willow Oak Rock Quarry LLC  
 Kershaw County, South Carolina  
 Source: ESRI  
 Date: February 2018

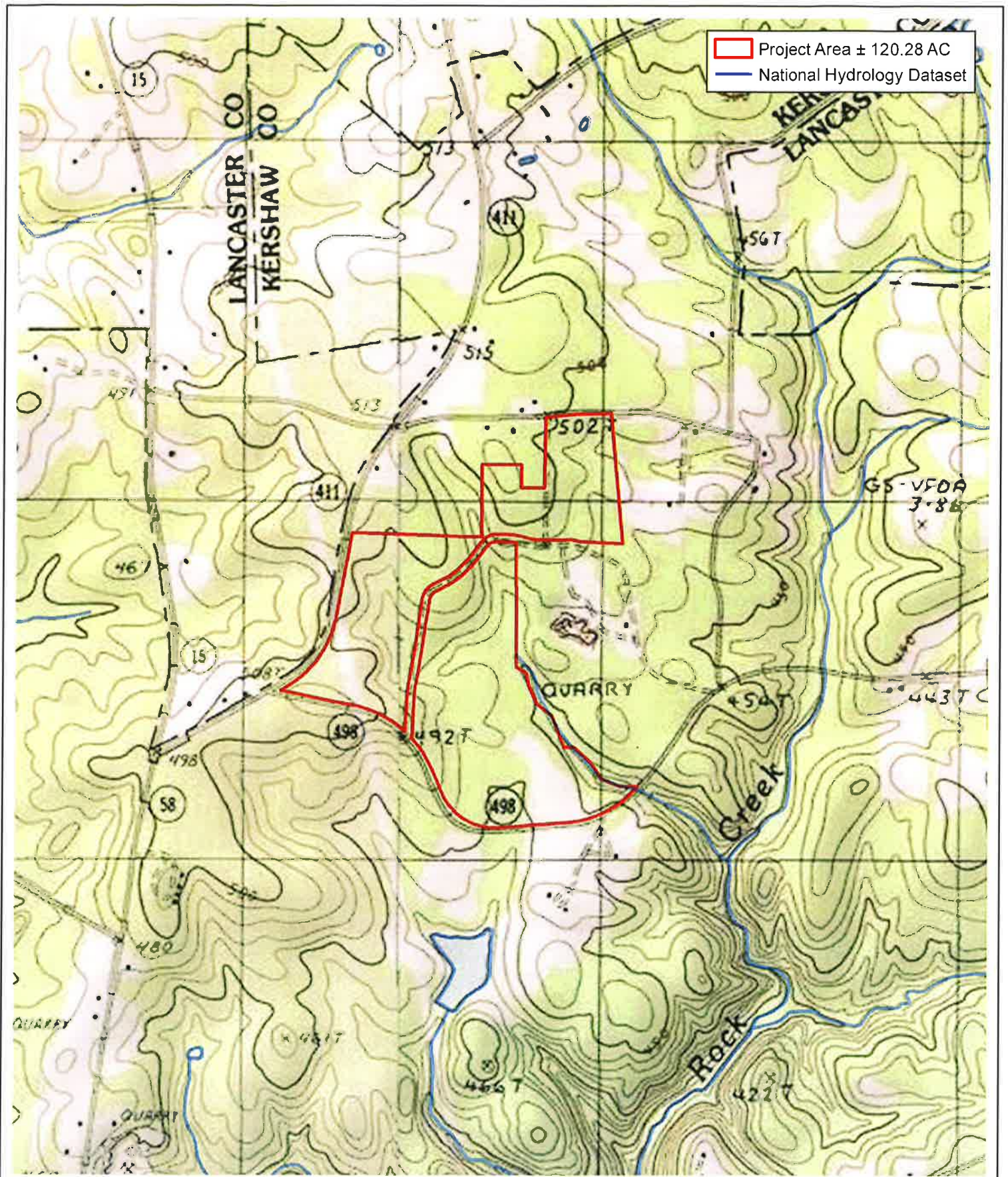




**Figure 2: Location Map**

Willow Oak Rock Quarry  
 Willow Oak Rock Quarry LLC  
 Kershaw County, South Carolina  
 Source: USGS, ESRI  
 Date: February 2018



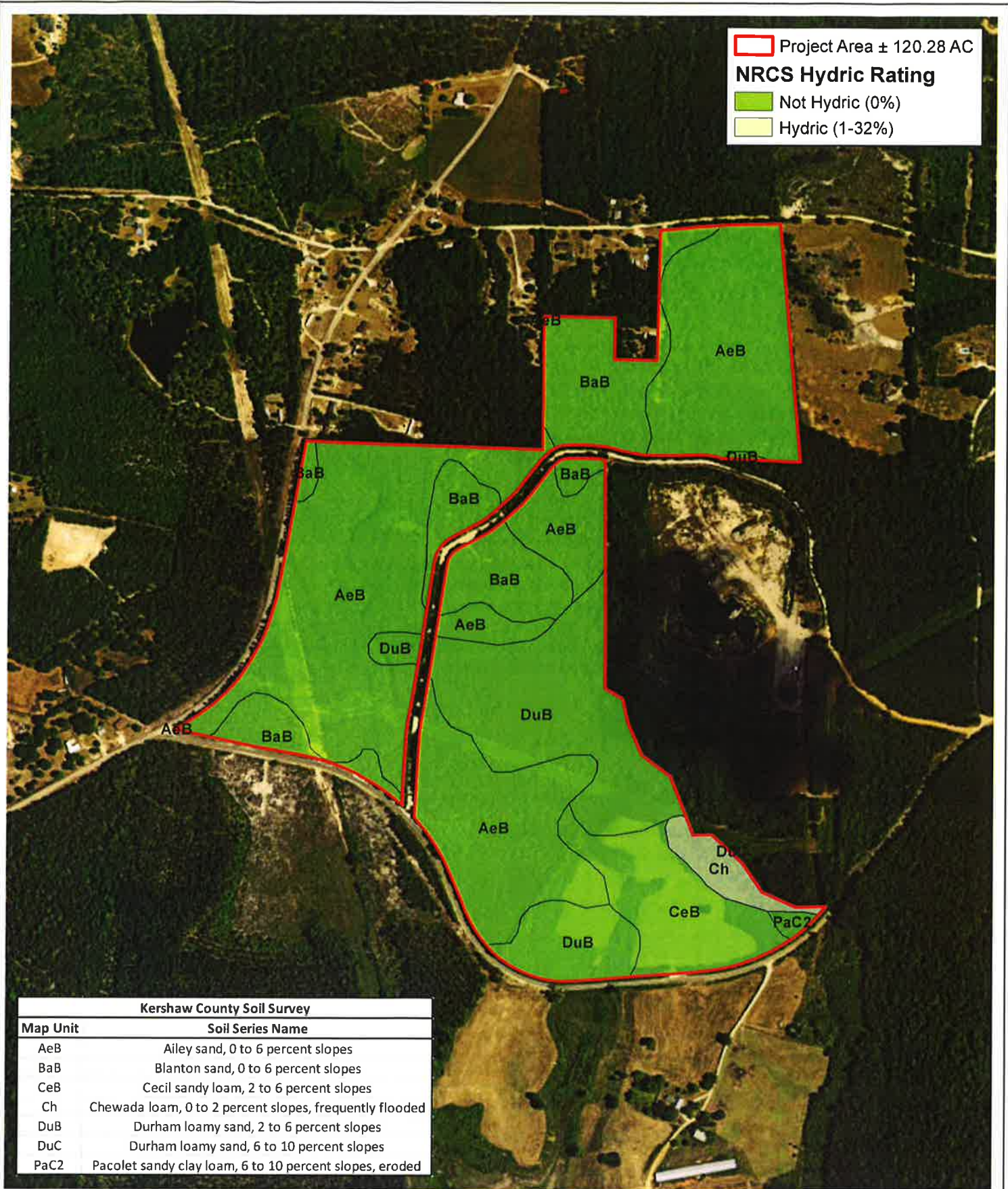


**Figure 3: USGS Topographic Map**

Willow Oak Rock Quarry  
 Willow Oak Rock Quarry LLC  
 Kershaw County, South Carolina  
 Source: ESRI, USGS White Oak Cr 7.5' Quad  
 Date: February 2018

1 inch = 1,125 feet

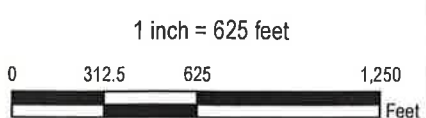




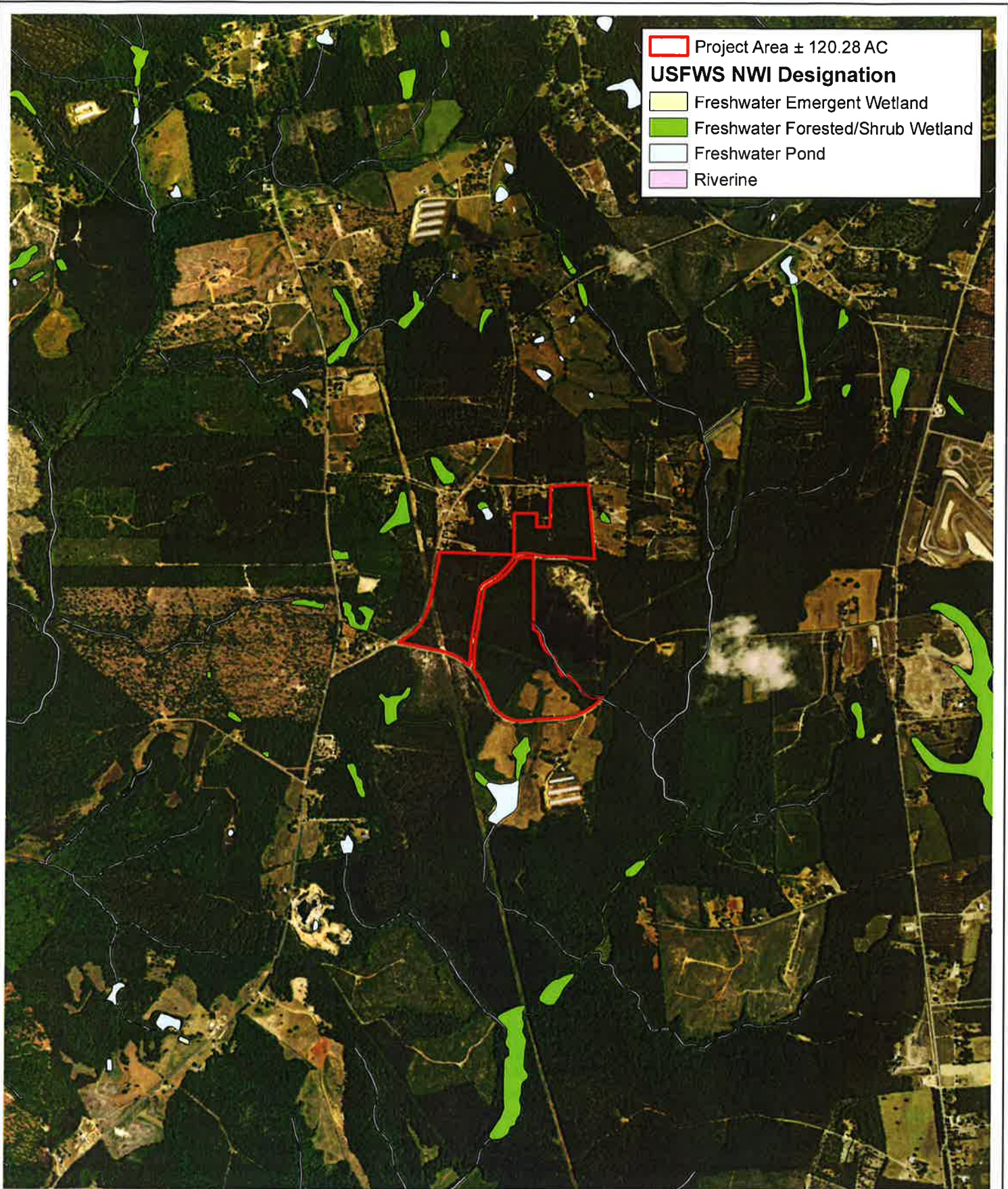
Project Area ± 120.28 AC  
**NRCS Hydric Rating**  
 Not Hydric (0%)  
 Hydric (1-32%)

Kershaw County Soil Survey	
Map Unit	Soil Series Name
AeB	Ailey sand, 0 to 6 percent slopes
BaB	Blanton sand, 0 to 6 percent slopes
CeB	Cecil sandy loam, 2 to 6 percent slopes
Ch	Chewada loam, 0 to 2 percent slopes, frequently flooded
DuB	Durham loamy sand, 2 to 6 percent slopes
DuC	Durham loamy sand, 6 to 10 percent slopes
PaC2	Pacolet sandy clay loam, 6 to 10 percent slopes, eroded

**Figure 4: NRCS Soil Unit Map**  
 Willow Oak Rock Quarry  
 Willow Oak Rock Quarry LLC  
 Kershaw County, South Carolina  
 Source: ESRI, NRCS  
 Date: February 2018



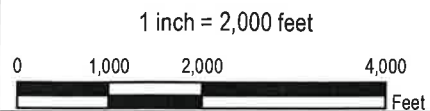


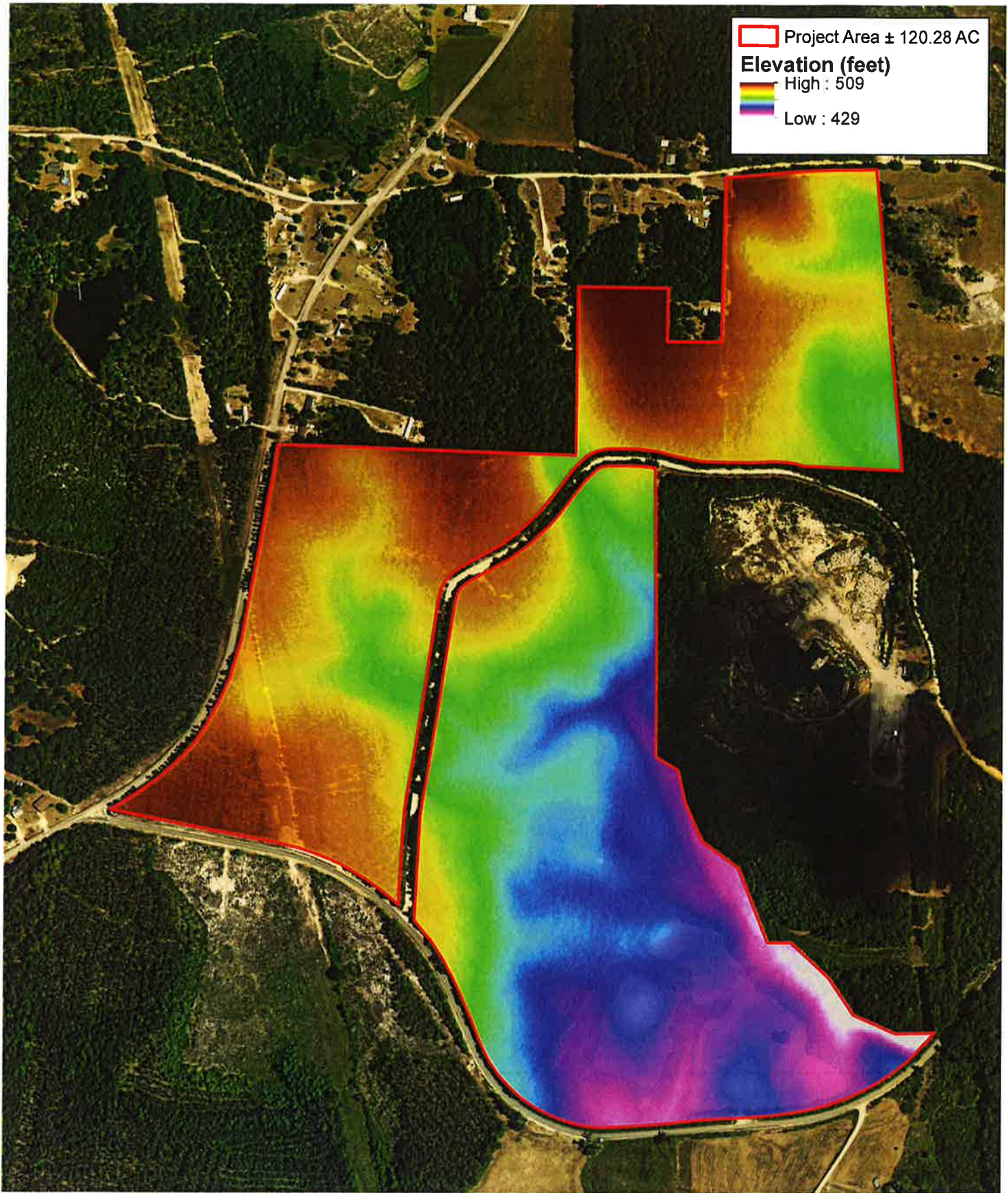


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**Figure 5: National Wetlands Inventory Map**

Willow Oak Rock Quarry  
 Willow Oak Rock Quarry LLC  
 Kershaw County, South Carolina  
 Source: ESRI, USFWS  
 Date: February 2018

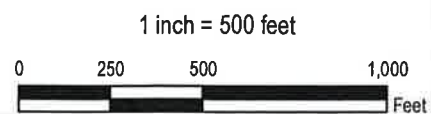


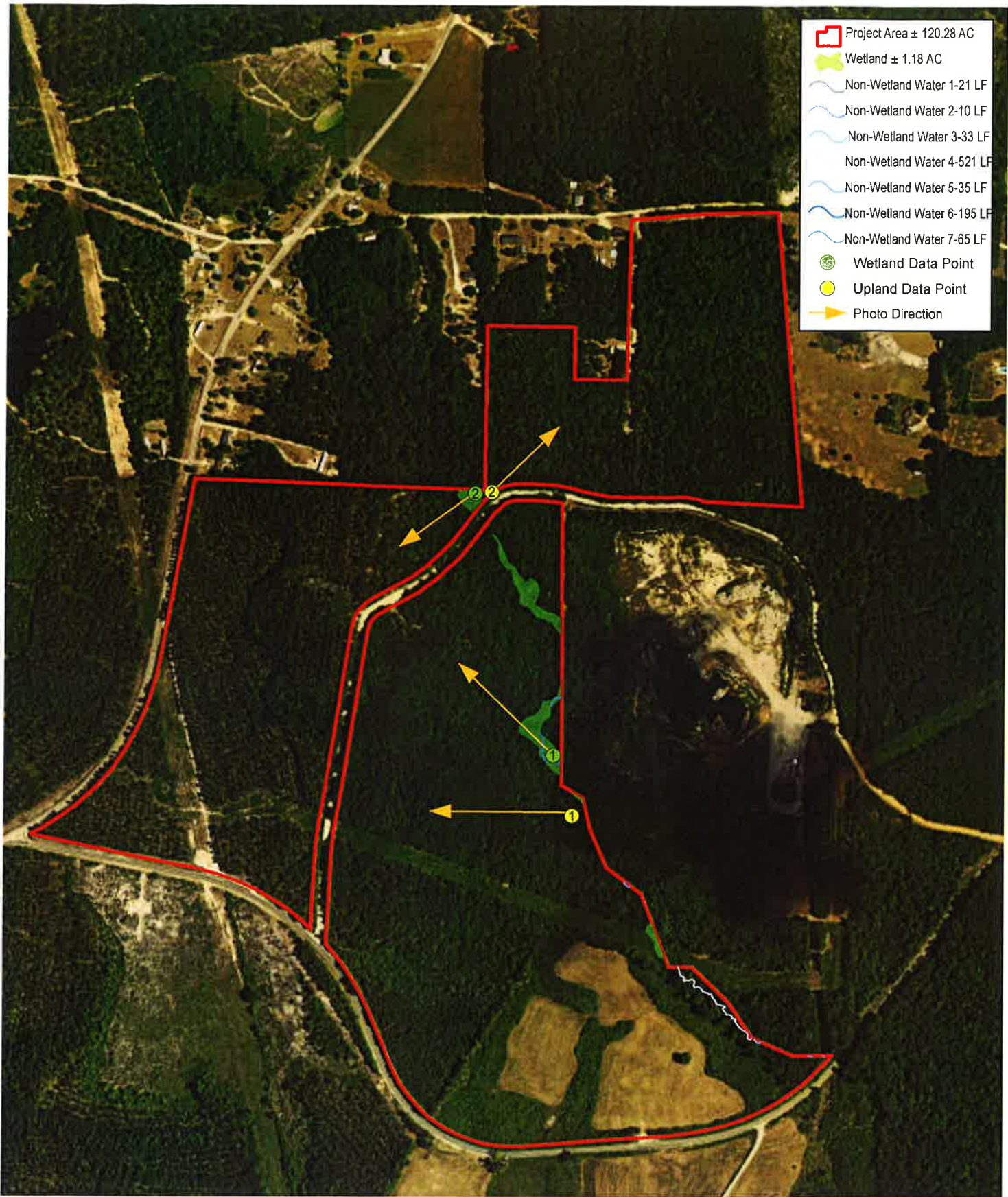


Project Area ± 120.28 AC  
**Elevation (feet)**  
 High : 509  
 Low : 429

**Figure 6: LIDAR Digital Elevation Map**

Willow Oak Rock Quarry  
 Willow Oak Rock Quarry LLC  
 Kershaw County, South Carolina  
 Source: ESRI  
 Date: February 2018

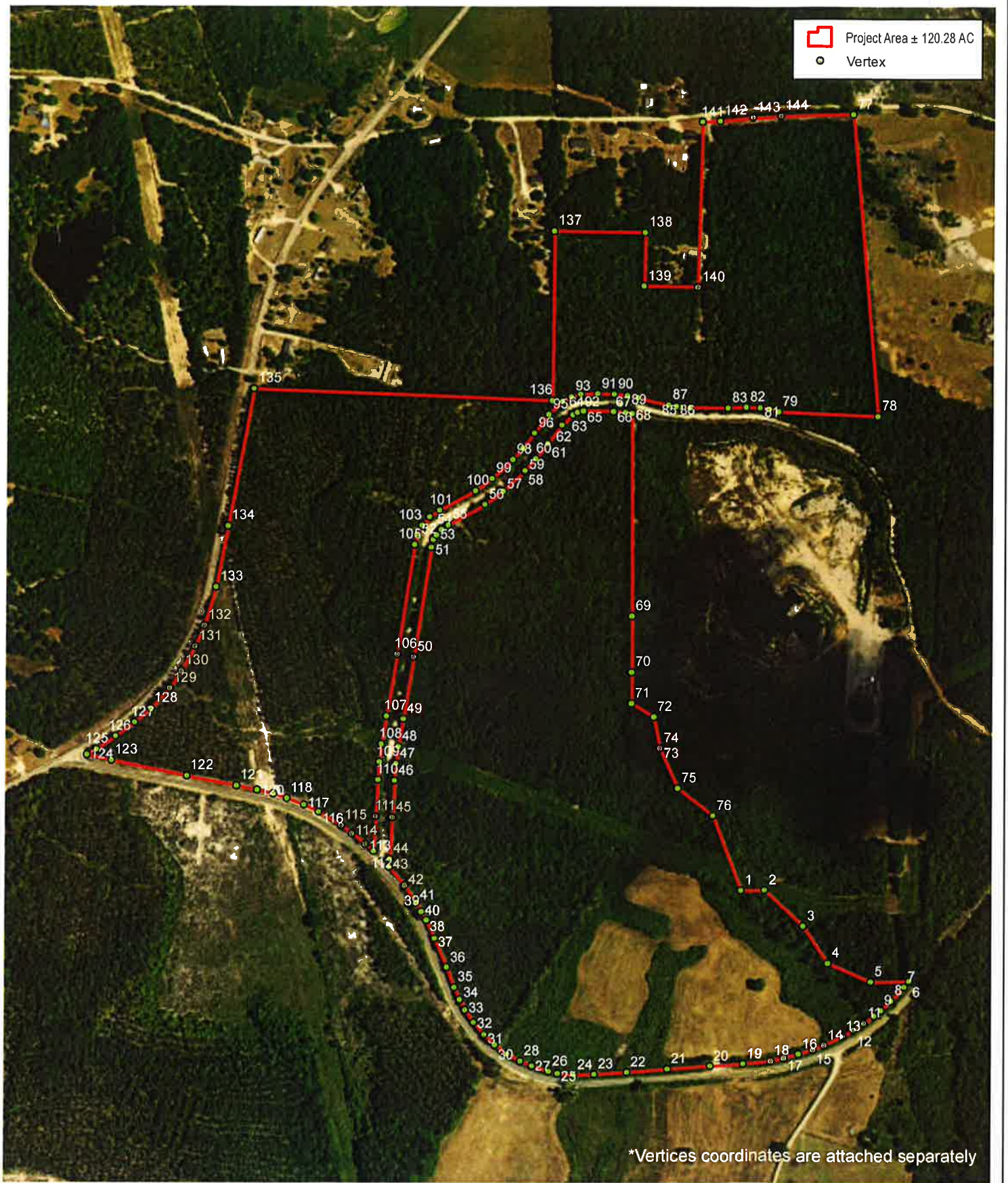




**Figure 7: Delineated Aquatic Features Map**

Willow Oak Rock Quarry  
 Willow Oak Rock Quarry LLC  
 Kershaw County, South Carolina  
 Source: ESRI, USFWS  
 Date: February 2018

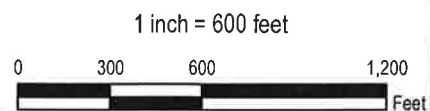




\*Vertices coordinates are attached separately

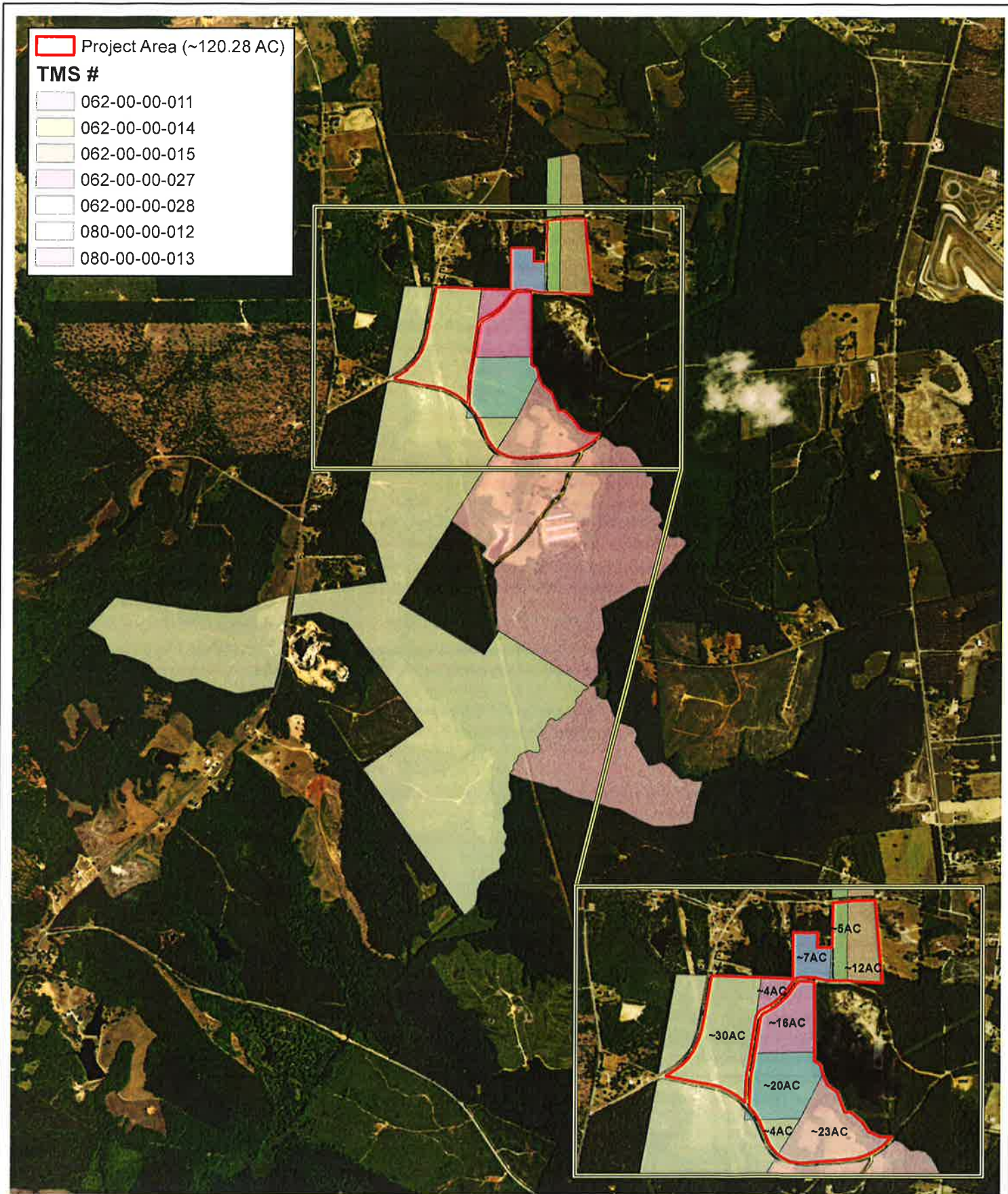


**Figure 8: Review Area Map**  
 Willow Oak Rock Quarry  
 Willow Oak Rock Quarry LLC  
 Kershaw County, South Carolina  
 Source: ESRI  
 Date: February 2018



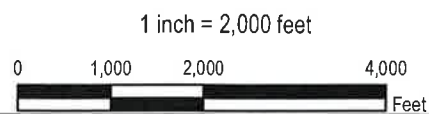
### Project Area Vertices

Vertex Number VID	Latitude X	Longitude Y	Vertex Number VID	Latitude X	Longitude Y	Vertex Number VID	Latitude X	Longitude Y
1	34.480700	-80.619800	51	34.484400	-80.623900	101	34.484800	-80.623800
2	34.480700	-80.619500	52	34.484500	-80.623900	102	34.484800	-80.623900
3	34.480300	-80.619000	53	34.484600	-80.623800	103	34.484700	-80.624000
4	34.479900	-80.618700	54	34.484600	-80.623800	104	34.484600	-80.624100
5	34.479700	-80.618100	55	34.484700	-80.623700	105	34.484500	-80.624100
6	34.479700	-80.617600	56	34.484900	-80.623200	106	34.483300	-80.624300
7	34.479700	-80.617600	57	34.485000	-80.622900	107	34.482600	-80.624500
8	34.479500	-80.617800	58	34.485300	-80.622700	108	34.482300	-80.624500
9	34.479400	-80.618000	59	34.485300	-80.622700	109	34.482100	-80.624600
10	34.479400	-80.618000	60	34.485400	-80.622500	110	34.481900	-80.624600
11	34.479300	-80.618200	61	34.485600	-80.622400	111	34.481500	-80.624600
12	34.479200	-80.618300	62	34.485800	-80.622200	112	34.481100	-80.624600
13	34.479100	-80.618500	63	34.485900	-80.622000	113	34.481200	-80.624700
14	34.479100	-80.618700	64	34.485900	-80.622000	114	34.481300	-80.624900
15	34.479000	-80.618900	65	34.485900	-80.621900	115	34.481400	-80.625100
16	34.479000	-80.619000	66	34.485900	-80.621500	116	34.481600	-80.625400
17	34.478900	-80.619200	67	34.485900	-80.621300	117	34.481600	-80.625500
18	34.478900	-80.619400	68	34.485900	-80.621300	118	34.481700	-80.625800
19	34.478800	-80.619800	69	34.483700	-80.621300	119	34.481800	-80.626000
20	34.478800	-80.620200	70	34.483100	-80.621300	120	34.481800	-80.626200
21	34.478800	-80.620800	71	34.482700	-80.621300	121	34.481900	-80.626400
22	34.478800	-80.621300	72	34.482600	-80.621000	122	34.482000	-80.627100
23	34.478700	-80.621700	73	34.482300	-80.620900	123	34.482100	-80.628100
24	34.478700	-80.622000	74	34.482300	-80.620900	124	34.482200	-80.628400
25	34.478700	-80.622200	75	34.481800	-80.620600	125	34.482200	-80.628300
26	34.478800	-80.622300	76	34.481500	-80.620200	126	34.482400	-80.628000
27	34.478800	-80.622500	77	34.489100	-80.618400	127	34.482500	-80.627800
28	34.478900	-80.622700	78	34.485900	-80.618000	128	34.482700	-80.627600
29	34.479000	-80.622900	79	34.485900	-80.619300	129	34.482900	-80.627300
30	34.479000	-80.623000	80	34.485900	-80.619400	130	34.483100	-80.627200
31	34.479200	-80.623200	81	34.486000	-80.619600	131	34.483400	-80.627000
32	34.479300	-80.623300	82	34.486000	-80.619800	132	34.483600	-80.626900
33	34.479400	-80.623400	83	34.485900	-80.620000	133	34.484000	-80.626700
34	34.479500	-80.623500	84	34.486000	-80.620500	134	34.484700	-80.626600
35	34.479700	-80.623600	85	34.486000	-80.620600	135	34.486100	-80.626200
36	34.479900	-80.623700	86	34.486000	-80.620700	136	34.486000	-80.622300
37	34.480200	-80.623800	87	34.486000	-80.620800	137	34.487900	-80.622300
38	34.480400	-80.623900	88	34.486100	-80.621200	138	34.487800	-80.621100
39	34.480500	-80.624000	89	34.486100	-80.621300	139	34.487300	-80.621100
40	34.480500	-80.624000	90	34.486100	-80.621500	140	34.487300	-80.620400
41	34.480600	-80.624100	91	34.486100	-80.621700	141	34.489000	-80.620400
42	34.480800	-80.624200	92	34.486100	-80.621900	142	34.489000	-80.620100
43	34.481000	-80.624400	93	34.486100	-80.622100	143	34.489100	-80.619700
44	34.481100	-80.624400	94	34.486000	-80.622200	144	34.489100	-80.619300
45	34.481500	-80.624400	95	34.485900	-80.622400			
46	34.481900	-80.624400	96	34.485700	-80.622500			
47	34.482100	-80.624300	97	34.485500	-80.622700			
48	34.482300	-80.624300	98	34.485400	-80.622800			
49	34.482600	-80.624300	99	34.485200	-80.623100			
50	34.483200	-80.624100	100	34.485000	-80.623300			



**Figure 9: Parcel Map**

Willow Oak Rock Quarry  
 Willow Oak Rock Quarry LLC  
 Kershaw County, South Carolina  
 Source: ESRI  
 Date: February 2018



## Enclosure D: Delineated Feature Summary Tables

Wetland Feature Summary Table					
Wetland Name	Cowardin Code	Measurement Type	Amount	Latitude °N	Longitude °W
Wetland 1	PFO	Area	0.145788	34.485930	-80.622500
Wetland 2	PFO	Area	0.08346	34.481020	-80.619980
Wetland 3	PFO	Area	0.018154	34.482600	-80.621020
Wetland 4	PFO	Area	0.482953	34.483310	-80.621500
Wetland 5	PFO	Area	0.438855	34.484890	-80.621700

Non-Wetland Waters Feature Summary Table						
Waters Name	Cowardin Code	Waters Type	Measurement Type	Amount	Latitude °N	Longitude °W
Water 1	R3UB3	Perennial Stream	Length	21	34.479740	-80.617860
Water 2	R3UB3	Perennial Stream	Length	10	34.479730	-80.617680
Water 3	R3UB3	Perennial Stream	Length	33	34.479890	-80.618580
Water 4	R3UB3	Perennial Stream	Length	521	34.480340	-80.619140
Water 5	R3UB3	Perennial Stream	Length	35	34.481630	-80.620360
Water 6	R3UB3	Perennial Stream	Length	195	34.483090	-80.621520
Water 7	R3UB3	Perennial Stream	Length	65	34.483700	-80.621350



**Enclosure E: Wetland Determination Data Forms and  
Representative Site Photographs**

**WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont**

Project/Site: Willow Oak Quarry City/Co.: Kershaw / Kershaw County Sampling Date: 12/8/2017  
 Applicant/Owner: Willow Oak Quarry Attn: Dan Stuckey State: SC Sampling Point: WDP-1  
 Investigator(s): Tory Grayson; Alyson Frisch Section, Township, Range: USGS 7.5' Quadrangle - White Oak Cr  
 Landform: (hillslope, terrace, etc.) floodplain Local Relief: none Slope (%): 2  
 Subregion(LRR/MLRA LRR - P) P Lat: 34.483075 N Long:- 80.621363 W Datum: NAD1983  
 Soil Map Unit Name: DuB - Durham loamy sand, 2 to 6 percent slopes NWI Classification: none  
 Are climatic/hydrologic conditions on the site typical for this time of year?  Yes  No (If no, explain in Remarks.)  
 Are Vegetation  , Soil  , or Hydrology  significantly disturbed? Are "Normal Circumstances" present?  Yes  No  
 Are Vegetation  , Soil  , or Hydrology  naturally problematic? (If needed, explain any answers in Remarks.)

**SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Is the Sampled Area within a wetland?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Hydric Soil Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>			
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>			
Remarks					

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>		<b>Secondary Indicators (minimum of two required)</b>	
<u>Primary Indicators (minimum of one is required; check all that apply):</u>			
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> True Aquatic Plants (B14)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input checked="" type="checkbox"/> Drainage Patterns (B10)	
<input checked="" type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input checked="" type="checkbox"/> Moss Trim Lines (B16)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Thin Much Surface (C7)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Iron Deposits (B5)		<input type="checkbox"/> Stunted or Stressed Plants (D1)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)		<input checked="" type="checkbox"/> Geomorphic Position (D2)	
<input checked="" type="checkbox"/> Water-Stained Leaves (B9)		<input type="checkbox"/> Shallow Aquitard (D3)	
<input type="checkbox"/> Aquatic Fauna (B13)		<input type="checkbox"/> Microtopographic Relief (D4)	
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)	

<b>Field Observations:</b>				<b>Wetland Hydrology Present?</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Surface Water Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Depth (inches):	<u>0-2</u>	
Water Table Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Depth (inches):	<u>2</u>	
Saturation Present? (includes capillary fringe)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Depth (inches):	<u>0</u>	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:



**VEGETATION (Four Strata) - Use scientific names of plants.**

Sampling Point: WDP-1

				Dominance Test Worksheet:	
<b>Tree Stratum</b> (Plot size: 30ft radius)				Number of Dominant Species That Are OBL, FACW, or FAC: <u>7</u> (A) Total Number of Dominant Species Across All Strata: <u>10</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>70%</u> (A/B)	
1.	<i>Acer rubrum</i>	30	Y		FAC
2.	<i>Pinus taeda</i>	20	Y		FAC
3.					
4.					
5.					
6.					
7.					
8.					
50% of total cover: <u>25</u> 20% of total cover: <u>10</u>					
<b>Sapling/Shrub Stratum</b> (Plot size: 30ft radius)				<b>Prevalence Index worksheet:</b> Total % Cover of:                      Multiply OBL species                              x 1 = _____ FACW species                             x 2 = _____ FAC species                                x 3 = _____ FACU species                              x 4 = _____ UPL species                                x 5 = _____ Column Totals:                            (A)                      (B) Prevalence Index = B/A = _____	
1.	<i>Acer rubrum</i>	10	Y		FAC
2.	<i>Liquidambar styraciflua</i>	30	Y		FAC
3.	<i>Ilex opaca</i>	10	Y		FAC
4.					
5.					
6.					
7.					
8.					
50% of total cover: <u>25</u> 20% of total cover: <u>10</u>					
<b>Herb Stratum</b> (Plot size: 30ft radius)				<b>Hydrophytic Vegetation Indicators:</b> <input type="checkbox"/> Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> Dominance Test is > 50% <input type="checkbox"/> Prevalence Index is ≤ 3.0 <sup>1</sup> <input type="checkbox"/> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic	
1.	<i>Arundinaria gigantea</i>	40	Y		FACW
2.	<i>Rubus alleghensis</i>	30	Y		FACU
3.	<i>Magnolia virginiana</i>	30	Y		FACW
4.					
5.					
6.					
7.					
8.					
50% of total cover: <u>50</u> 20% of total cover: <u>20</u>					
<b>Woody Vine Stratum</b> (Plot size: 30ft radius)				<b>Definitions of Four Vegetation Strata:</b>  <b>Tree</b> - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  <b>Sapling/Shrub</b> - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  <b>Herb</b> - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  <b>Woody Vines</b> - All woody vines greater than 3.28 ft in height.	
1.	<i>Lonicera japonica</i>	20	Y		FACU
2.	<i>Parthenocissus quinquefolia</i>	5	Y		FACU
3.					
4.					
5.					
6.					
50% of total cover: <u>12.5</u> 20% of total cover: <u>5</u>					
					<b>Hydrophytic Vegetation Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

Remarks: (Include photo numbers here or on a separate sheet.)

**SOIL**

Sampling Point: WDP-1

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators).**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-4	7.5 YR 4/2	100					sandy loam	
4-12	7.5 YR 4/1	95	5YR 5/6	5	C	M	loam	
12-24	7.5 YR 6/1	90	5YR 5/6	10	C	M	clay loam	

<sup>1</sup>Type C = Concentration, D = depletion, RM = Reduced Matrix, MS = Masked Sand Grains      <sup>2</sup>Location: PL = Pore Lining, M = Matrix

- Hydric Soil Indicators:**
- Histic Epipedon (A2)
  - Black Histic (A3)
  - Hydrogen Sulfide (A4)
  - Stratified Layers (A5)
  - 2 cm Muck (A10) (LRR N)
  - Depleted Below Dark Surface (A11)
  - Thick Dark Surface (A12)
  - Sandy Mucky Material (S1) (LRR N, MLRA 147, 148)
  - Sandy Gleyed Matrix (S4)
  - Sandy Redox (S4)
  - Stripped Matrix (S5)
  - Dark Surface (S7)
  - Polyvalue Below Surface (S8) (MLRA 147, 148)
  - Thin Dark Surface (S9) (MLRA 147, 148)
  - Loamy Gleyed Matrix (F2) 0-4
  - Depleted Matrix (F3)
  - Redox Dark Surface (F6)
  - Depleted Dark Surface (F7)
  - Redox Depressions (F8)
  - Iron-Manganese Masses (F12) (LRR N, MLRA 136)
  - Umbric Surface (F13) (MLRA 136, 122)
  - Piedmont Floodplain Soils (F19) (MLRA 148)
  - Red Parent Material (F21) (MLRA 127, 147)
- Indicators for Problematic Hydric Soils<sup>3</sup>:**
- 2 cm Muck (A10) (MLRA 147)
  - Coastal Prairie Redox (A16) (MLRA 147, 148)
  - Piedmont Floodplain Soils (F19) (MLRA 136, 147)
  - Very Shallow Dark Surface (TF12)
  - Other (Explain in Remarks)
- <sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if observed):**

Type: \_\_\_\_\_  
Depth (inches): \_\_\_\_\_

Hydric Soil Present?    Yes     No

**Remarks:**



**WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont**

Project/Site: Willow Oak Quarry City/Co.: Kershaw / Kershaw County Sampling Date: 12/8/2017  
 Applicant/Owner: Willow Oak Quarry Attn: Dan Stuckey State: SC Sampling Point: UDP-1  
 Investigator(s): Tory Grayson; Alyson Frisch Section, Township, Range: USGS 7.5' Quadrangle - White Oak Cr  
 Landform: (hillslope, terrace, etc.) hill slope Local Relief: none Slope (%): 5  
 Subregion(LRR/MLRA LRR - P Lat: 34.482400 N Long: 80.621108 W Datum: NAD1983  
 Soil Map Unit Name: DuB - Durham loamy sand, 2 to 6 percent slopes NWI Classification: none  
 Are climatic/hydrologic conditions on the site typical for this time of year?  Yes  No (If no, explain in Remarks.)  
 Are Vegetation , Soil , or Hydrology  significantly disturbed? Are "Normal Circumstances" present?  Yes  No  
 Are Vegetation , Soil , or Hydrology  naturally problematic? (If needed, explain any answers in Remarks.)

**SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Remarks					

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>	<b>Secondary Indicators (minimum of two required)</b>
<u>Primary Indicators (minimum of one is required; check all that apply):</u>	
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> True Aquatic Plants (B14) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Thin Much Surface (C7) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)

<b>Field Observations:</b>		
Surface Water Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Depth (inches): _____
Water Table Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Depth (inches): _____
Saturation Present? (includes capillary fringe)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Depth (inches): _____
		<b>Wetland Hydrology Present?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:



**VEGETATION (Four Strata) - Use scientific names of plants.**

Sampling Point: UDP-1

Tree Stratum (Plot size: 30ft radius)				Dominance Test Worksheet:	
1.	Scientific Name	Absolute % Cover	Dominant Species?	Indicator Status	Number of Dominant Species That Are OBL, FACW, or FAC:
1.	<i>Quercus alba</i>	25	Y	FACU	1 (A)
2.	<i>Carya glabra</i>	50	Y	FACU	
3.	<i>Liriodendron tulipifera</i>	25	Y	FACU	Total Number of Dominant Species Across All Strata: 7 (B)
4.					Percent of Dominant Species That Are OBL, FACW, or FAC: 14% (A/B)
5.					
6.					
7.					
8.					
50% of total cover: 50				100 = Total Cover	
20% of total cover: 20					
Sapling/Shrub Stratum (Plot size: 30ft radius)				Prevalence Index worksheet:	
1.	<i>Liriodendron tulipifera</i>	10	Y	FACU	Total % Cover of: Multiply OBL species 0 x 1 = 0 FACW species 0 x 2 = 0 FAC species 20 x 3 = 60 FACU species 140 x 4 = 560 UPL species 0 x 5 = 0 Column Totals: 160 (A) 620 (B) Prevalence Index = B/A = 3.9
2.	<i>Quercus alba</i>	20	Y	FACU	
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
50% of total cover: 15				30 = Total Cover	
20% of total cover: 6					
Herb Stratum (Plot size: 30ft radius)				Hydrophytic Vegetation Indicators:	
1.	<i>Quercus alba</i>	10	Y	FACU	<input type="checkbox"/> Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> Dominance Test is > 50% <input type="checkbox"/> Prevalence Index is ≤ 3.0 <sup>1</sup> <input type="checkbox"/> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic
2.	<i>Vitis rotundifolia</i>	20	Y	FAC	
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
50% of total cover: 15				30 = Total Cover	
20% of total cover: 6					
Woody Vine Stratum (Plot size: 30ft radius)				Definitions of Four Vegetation Strata:	
1.					<b>Tree</b> - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  <b>Sapling/Shrub</b> - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  <b>Herb</b> - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  <b>Woody Vines</b> - All woody vines greater than 3.28 ft in height.
2.					
3.					
4.					
5.					
6.					
50% of total cover: 0				0 = Total Cover	
20% of total cover: 0					
Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>					
Remarks: (Include photo numbers here or on a separate sheet.)					

**SOIL**

Sampling Point: UDP-1

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators).**

Depth (inches)	Matrix Color (moist)	%	Redox Features			Loc <sup>2</sup>	Texture	Remarks
			Color (moist)	%	Type <sup>1</sup>			
0-4	7.5 YR 4/4	100					sandy loam	
4-24	7.5 YR 5/3	100					loam	

<sup>1</sup>Type C = Concentration, D = depletion, RM = Reduced Matrix, MS = Masked Sand Grains

<sup>2</sup>Location: PL = Pore Lining, M = Matrix

**Hydric Soil Indicators:**

- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- 2 cm Muck (A10) (LRR N)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Material (S1) (LRR N, MLRA 147, 148)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S4)
- Stripped Matrix (S5)

- Dark Surface (S7)
- Polyvalue Below Surface (S8) (MLRA 147, 148)
- Thin Dark Surface (S9) (MLRA 147, 148)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)
- Iron-Manganese Masses (F12) (LRR N, MLRA 136)
- Umbric Surface (F13) (MLRA 136, 122)
- Piedmont Floodplain Soils (F19) (MLRA 148)
- Red Parent Material (F21) (MLRA 127, 147)

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- 2 cm Muck (A10) (MLRA 147)
- Coastal Prairie Redox (A16) (MLRA 147, 148)
- Piedmont Floodplain Soils (F19) (MLRA 136, 147)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if observed):**

Type: \_\_\_\_\_  
Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes  No

**Remarks:**



**WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont**

Project/Site: Willow Oak Quarry City/Co.: Kershaw / Kershaw County Sampling Date: 12/8/2017  
 Applicant/Owner: Willow Oak Quarry Attn: Dan Stuckey State: SC Sampling Point: WDP-2  
 Investigator(s): Tory Grayson; Alyson Frisch Section, Township, Range: USGS 7.5' Quadrangle - White Oak Cr  
 Landform: (hillslope, terrace, etc.) floodplain Local Relief: none Slope (%): 2  
 Subregion(LRR/MLRA LRR - P LRR - P Lat: 34.485987 N Long: - 80.622432 W Datum: NAD1983  
 Soil Map Unit Name: AeB - Ailey sand, 0 to 6 percent slopes NWI Classification: none  
 Are climatic/hydrologic conditions on the site typical for this time of year?  Yes  No (If no, explain in Remarks.)  
 Are Vegetation  , Soil  , or Hydrology  significantly disturbed? Are "Normal Circumstances" present?  Yes  No  
 Are Vegetation  , Soil  , or Hydrology  naturally problematic? (If needed, explain any answers in Remarks.)

**SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Is the Sampled Area within a wetland?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Hydric Soil Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>			
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>			
Remarks					

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>		<b>Secondary Indicators (minimum of two required)</b>	
<u>Primary Indicators (minimum of one is required; check all that apply):</u>			
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> True Aquatic Plants (B14)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input checked="" type="checkbox"/> Drainage Patterns (B10)	
<input checked="" type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input checked="" type="checkbox"/> Moss Trim Lines (B16)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Iron Deposits (B5)		<input type="checkbox"/> Stunted or Stressed Plants (D1)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)		<input checked="" type="checkbox"/> Geomorphic Position (D2)	
<input checked="" type="checkbox"/> Water-Stained Leaves (B9)		<input type="checkbox"/> Shallow Aquitard (D3)	
<input type="checkbox"/> Aquatic Fauna (B13)		<input type="checkbox"/> Microtopographic Relief (D4)	
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)	
<b>Field Observations:</b>			
Surface Water Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Depth (inches):	<u>0-2</u>
Water Table Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Depth (inches):	<u>2</u>
Saturation Present? (includes capillary fringe)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Depth (inches):	<u>0</u>
		<b>Wetland Hydrology Present?</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:





**VEGETATION (Four Strata) - Use scientific names of plants.**

Sampling Point: WDP-2

	Absolute % Cover	Dominant Species?	Indicator Status	
<b>Tree Stratum</b> (Plot size: 30ft radius)				
1. <u>Pinus taeda</u>	40	Y	FAC	<b>Dominance Test worksheet:</b> Number of Dominant Species Number of Dominant Species That Are OBL, FACW, or FAC: <u>5</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>83%</u> (A/B)
2. <u>Quercus nigra</u>	50	Y	FAC	
3. <u>Liquidambar styraciflua</u>	20		FAC	
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
110 = Total Cover				<b>Prevalence Index worksheet:</b> Total % Cover of: _____ Multiply OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____
50% of total cover: <u>55</u>		20% of total cover: <u>22</u>		
<b>Sapling/Shrub Stratum</b> (Plot size: 30ft radius)				
1. <u>Acer rubrum</u>	30	Y	FAC	<b>Hydrophytic Vegetation Indicators:</b> <input type="checkbox"/> Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> Dominance Test is > 50% <input type="checkbox"/> Prevalence Index is ≤ 3.0 <sup>1</sup> <input type="checkbox"/> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. <u>Ilex opaca</u>	2		FAC	
3. <u>Liquidambar styraciflua</u>	15	Y	FACU	
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
10. _____				
47 = Total Cover				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic
50% of total cover: <u>23.5</u>		20% of total cover: <u>9.4</u>		
<b>Herb Stratum</b> (Plot size: 30ft radius)				
1. <u>Carex lurida</u>	20	Y	OBL	<b>Definitions of Four Vegetation Strata:</b>  <b>Tree</b> - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  <b>Sapling/Shrub</b> - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  <b>Herb</b> - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  <b>Woody Vines</b> - All woody vines greater than 3.28 ft in height.
2. <u>Juncus effusus</u>	10		FACW	
3. <u>Arundinaria gigantea</u>	50	Y	FACW	
4. <u>Smilax bona-nox</u>	2		FACU	
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
10. _____				
11. _____				
12. _____				
82 = Total Cover				<input type="checkbox"/> <b>Hydrophytic Vegetation Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
50% of total cover: <u>41</u>		20% of total cover: <u>16.4</u>		
<b>Woody Vine Stratum</b> (Plot size: 30ft radius)				
1. _____				
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
0 = Total Cover				
50% of total cover: <u>0</u>		20% of total cover: <u>0</u>		

Remarks: (Include photo numbers here or on a separate sheet.)

**SOIL**

Sampling Point: WDP-2

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators).**

Depth (inches)	Matrix		Redox Features			Loc <sup>2</sup>	Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>			
0-24	10 YR 2/1	100					sandy loam	

<sup>1</sup>Type C = Concentration, D = depletion, RM = Reduced Matrix, MS = Masked Sand Grains      <sup>2</sup>Location: PL = Pore Lining, M = Matrix

- |  |  |  |
|--|--|--|
| <p><b>Hydric Soil Indicators:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Histosol (A1)</li> <li><input type="checkbox"/> Histic Epipedon (A2)</li> <li><input type="checkbox"/> Black Histic (A3)</li> <li><input type="checkbox"/> Hydrogen Sulfide (A4)</li> <li><input type="checkbox"/> Stratified Layers (A5)</li> <li><input type="checkbox"/> 2 cm Muck (A10) (LRR N)</li> <li><input type="checkbox"/> Depleted Below Dark Surface (A11)</li> <li><input checked="" type="checkbox"/> Thick Dark Surface (A12)</li> <li><input type="checkbox"/> Sandy Mucky Material (S1)</li> <li><input type="checkbox"/> (LRR N, MLRA 147, 148)</li> <li><input type="checkbox"/> Sandy Gleyed Matrix (S4)</li> <li><input type="checkbox"/> Sandy Redox (S4)</li> <li><input type="checkbox"/> Stripped Matrix (S5)</li> </ul> | <ul style="list-style-type: none"> <li><input type="checkbox"/> Dark Surface (S7)</li> <li><input type="checkbox"/> Polyvalue Below Surface (S8) (MLRA 147, 148)</li> <li><input type="checkbox"/> Thin Dark Surface (S9) (MLRA 147, 148)</li> <li><input type="checkbox"/> Loamy Gleyed Matrix (F2)</li> <li><input type="checkbox"/> Depleted Matrix (F3)</li> <li><input type="checkbox"/> Redox Dark Surface (F6)</li> <li><input type="checkbox"/> Depleted Dark Surface (F7)</li> <li><input type="checkbox"/> Redox Depressions (F8)</li> <li><input type="checkbox"/> Iron-Manganese Masses (F12) (LRR N, MLRA 136)</li> <li><input type="checkbox"/> Umbric Surface (F13) (MLRA 136, 122)</li> <li><input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 148)</li> <li><input type="checkbox"/> Red Parent Material (F21) (MLRA 127, 147)</li> </ul> | <p><b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> 2 cm Muck (A10) (MLRA 147)</li> <li><input type="checkbox"/> Coastal Prairie Redox (A16) (MLRA 147, 148)</li> <li><input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 136, 147)</li> <li><input type="checkbox"/> Very Shallow Dark Surface (TF12)</li> <li><input type="checkbox"/> Other (Explain in Remarks)</li> </ul> |
|--|--|--|

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if observed):**  
 Type: \_\_\_\_\_  
 Depth (inches): \_\_\_\_\_

**Hydric Soil Present?**    Yes     No



**WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont**

Project/Site: Willow Oak Quarry City/Co.: Kershaw / Kershaw County Sampling Date: 12/8/2017  
 Applicant/Owner: Willow Oak Quarry Attn: Dan Stuckey State: SC Sampling Point: UDP-2  
 Investigator(s): Tory Grayson; Alyson Frisch Section, Township, Range: USGS 7.5' Quadrangle - White Oak Cr  
 Landform: (hillslope, terrace, etc.) hill slope Local Relief: none Slope (%): 2  
 Subregion(LRR/MLRA LRR - P Lat: 34.486004 N Long: - 80.622211 W Datum: NAD1983  
 Soil Map Unit Name: AeB - Ailey sand, 0 to 6 percent slopes NWI Classification: none  
 Are climatic/hydrologic conditions on the site typical for this time of year?  Yes  No (If no, explain in Remarks.)  
 Are Vegetation , Soil , or Hydrology  significantly disturbed? Are "Normal Circumstances" present?  Yes  No  
 Are Vegetation , Soil , or Hydrology  naturally problematic? (If needed, explain any answers in Remarks.)

**SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Remarks					

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>		<u>Secondary Indicators (minimum of two required)</u>
<u>Primary Indicators (minimum of one is required; check all that apply):</u>		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> True Aquatic Plants (B14)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Iron Deposits (B5)		<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)		<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Water-Stained Leaves (B9)		<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Aquatic Fauna (B13)		<input type="checkbox"/> Microtopographic Relief (D4)
		<input type="checkbox"/> FAC-Neutral Test (D5)

<b>Field Observations:</b>		
Surface Water Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Depth (inches): _____
Water Table Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Depth (inches): _____
Saturation Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Depth (inches): _____
(includes capillary fringe)		<b>Wetland Hydrology Present?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:		
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**VEGETATION (Four Strata) - Use scientific names of plants.**

Sampling Point: UDP-2

		Absolute % Cover	Dominant Species?	Indicator Status		
<b>Tree Stratum</b> (Plot size: 30ft radius)						
1.	<u>Quercus alba</u>	25	Y	FACU	<b>Dominance Test Worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)  Total Number of Dominant Species Across All Strata: <u>5</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>20%</u> (A/B)	
2.	<u>Carya glabra</u>	50	Y	FACU		
3.						
4.						
5.						
6.						
7.						
8.						
50% of total cover: <u>37.5</u>		75 = Total Cover	20% of total cover: <u>15</u>		<b>Prevalence Index worksheet:</b> Total % Cover of: OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>40</u> x 2 = <u>80</u> FAC species <u>20</u> x 3 = <u>60</u> FACU species <u>105</u> x 4 = <u>420</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>165</u> (A) <u>560</u> (B) Prevalence Index = B/A = <u>3.4</u>	
<b>Sapling/Shrub Stratum</b> (Plot size: 30ft radius)						
1.	<u>Juniperus virginiana</u>	20	Y	FACU		
2.						
3.						
4.						
5.						
6.						
7.						
8.						
9.						
10.						
50% of total cover: <u>10</u>		20 = Total Cover	20% of total cover: <u>4</u>			
<b>Herb Stratum</b> (Plot size: 30ft radius)						
1.	<u>Carya glabra</u>	10		FACU	<b>Hydrophytic Vegetation Indicators:</b> <input type="checkbox"/> Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> Dominance Test is > 50% <input type="checkbox"/> Prevalence Index is ≤ 3.0 <sup>1</sup> <input type="checkbox"/> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
2.	<u>Vitis rotundifolia</u>	20	Y	FAC		
3.	<u>Lonicera japonica</u>	40	Y	FACU		
4.						
5.						
6.						
7.						
8.						
9.						
10.						
11.						
12.						
50% of total cover: <u>35</u>		70 = Total Cover	20% of total cover: <u>14</u>			
<b>Woody Vine Stratum</b> (Plot size: 30ft radius)						
1.					<b>Definitions of Four Vegetation Strata:</b>  <b>Tree</b> - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  <b>Sapling/Shrub</b> - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  <b>Herb</b> - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  <b>Woody Vines</b> - All woody vines greater than 3.28 ft in height.	
2.						
3.						
4.						
5.						
6.						
6.						
50% of total cover: <u>0</u>		0 = Total Cover	20% of total cover: <u>0</u>			
<b>Hydrophytic Vegetation Present?</b>					Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Remarks: (Include photo numbers here or on a separate sheet.)						

**SOIL**

Sampling Point: UDP-2

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators).**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-12	10 YR 4/2	100					loamy sand	
12-24	10 YR 7/4	100					loamy sand	

<sup>1</sup>Type C = Concentration, D = depletion, RM = Reduced Matrix, MS = Masked Sand Grains      <sup>2</sup>Location: PL = Pore Lining, M = Matrix

**Hydric Soil Indicators:**

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- 2 cm Muck (A10) (LRR N)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Material (S1) (LRR N, MLRA 147, 148)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S4)
- Stripped Matrix (S5)
- Dark Surface (S7)
- Polyvalue Below Surface (S8) (MLRA 147, 148)
- Thin Dark Surface (S9) (MLRA 147, 148)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)
- Iron-Manganese Masses (F12) (LRR N, MLRA 136)
- Umbric Surface (F13) (MLRA 136, 122)
- Piedmont Floodplain Soils (F19) (MLRA 148)
- Red Parent Material (F21) (MLRA 127, 147)

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- 2 cm Muck (A10) (MLRA 147)
- Coastal Prairie Redox (A16) (MLRA 147, 148)
- Piedmont Floodplain Soils (F19) (MLRA 136, 147)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if observed):**

Type: \_\_\_\_\_  
Depth (inches): \_\_\_\_\_

Hydric Soil Present?    Yes     No

**Remarks:**



**III. TYPE OF REQUEST:**

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- Delineation of Wetlands and/or Other Aquatic Resources Only Conducted By Agent/Environmental Consultant** with submittal of a Pre-Construction Notification or Department of the Army permit application (No jurisdictional determination requested)
- I request that the **Corps delineate** the wetlands and/or other aquatic resources that may be present on my property with the attached **Pre-Construction Notification or Department of the Army permit application**
- I request that the **Corps delineate** the wetlands and/or other aquatic resources that may be present on my property **with an AJD or PJD**
- "No Permit Required" (NPR) Letter** as I believe my proposed activity is not regulated<sup>3</sup>
- Unclear** as to which jurisdictional determination I would like to request and require additional information to inform my decision

<sup>1</sup>**Approved** – An AJD is defined in Corps regulations at 33 CFR 331.2. As explained in further detail in RGL 16-01, an AJD is used to indicate that this office has identified the presence or absence of wetlands and/or other aquatic resources on a site, including their accurate location(s) and boundaries, as well as their jurisdictional status. AJDs are valid for 5 years.

<sup>2</sup>**Preliminary** – A PJD is defined in Corps regulations at 33 CFR 331.2. As explained in further detail in RGL 16-01, a PJD is used to indicate that this office has identified the approximate location(s) and boundaries of wetlands and/or other aquatic resources on a site that are presumed to be subject to regulatory jurisdiction of the Corps of Engineers. Unlike an AJD, a PJD does not represent a definitive, official determination that there are, or that there are not, jurisdictional aquatic resources on a site, and does not have an expiration date.

<sup>3</sup> **"No Permit Required" (NPR) Letter**- A NPR letter may be provided by the Corps to notify the requestor that an activity will not require a permit (authorization) from the Corps; this letter can only be used if the proposed activity is not a regulated activity, regardless of where the activity may occur. A NPR letter cannot be used to indicate the presence or absence of wetlands and/or other aquatic resources, nor can it be used to determine their jurisdictional status.

**IV. LEGAL RIGHT OF ENTRY**

By signing below, I am indicating that I have the authority, or am acting as the duly authorized agent of a person or entity with such authority, to and do hereby grant U.S. Army Corps of Engineers personnel right of entry to legally access the property(ies) subject to this request for the purposes of conducting on-site investigations (e.g., digging and refilling shallow holes) and issuing a jurisdictional determination. I acknowledge that my signature is an affirmation that I possess the requisite property rights to request a jurisdictional determination on the properties subject to this request.

504 County Line Rd., Kershaw, SC 29067

062-00-00-014

Mailing Address

Property Address / TMS #(s)

Email Address

Daytime Phone Number

*Rita M. Williams*

Rita M. Williams

\*Signature:

Printed Name and Date

<p><b>Charleston Office:</b> US Army Corps of Engineers Regulatory Division 69A Hagood Avenue Charleston, SC 29403 (ph) 843-329-8044</p>	<p><b>Columbia Office:</b> US Army Corps of Engineers Regulatory Office 1835 Assembly Street, Room 865 B-1 Columbia, SC 29201 (ph) 803-253-3444</p>	<p><b>Conway Office:</b> US Army Corps of Engineers Regulatory Office 1949 Industrial Park Road, Room 140 Conway, SC 29526 (ph) 843-365-4239</p>
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\***Authorities:** Rivers and Harbors Act, Section 10, 33 USC 403; Clean Water Act, Section 404, 33 USC 1344; Marine Protection, Research, and Sanctuaries Act, Section 103, 33 USC 1413; Regulatory Program of the U.S. Army Corps of Engineers; Final Rule for 33 CFR Parts 320-332.

**Principal Purpose:** The information that you provide will be used in evaluating your request to determine whether there are any aquatic resources within the project area subject to federal jurisdiction under the regulatory authorities referenced above.

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P.O. Box 975 Emory, VA 24327

Mailing Address

tmccclaugherty@hotmail.com

Email Address

Thomas S. McLaugherty

\*Signature:

3559 Flat Rock Rd., Kershaw, SC 29087/ 080-00-00-012

Property Address / TMS #(s)

276-274-8610

Daytime Phone Number

Thomas Shannon McLaugherty

Printed Name and Date

Charleston Office:  
US Army Corps of Engineers  
Regulatory Division  
69A Hagood Avenue  
Charleston, SC 29403  
(ph) 843-329-6044

Columbia Office:  
US Army Corps of Engineers  
Regulatory Office  
1835 Assembly Street, Room 665 B-1  
Columbia, SC 29201  
(ph) 803-253-3444

Conway Office:  
US Army Corps of Engineers  
Regulatory Office  
1949 Industrial Park Road, Room 140  
Conway, SC 29626  
(ph) 843-365-4239

\*Authorities: Rivers and Harbors Act, Section 10, 33 USC 403; Clean Water Act, Section 404, 33 USC 1344; Marine Protection, Research, and Sanctuaries Act, Section 103, 33 USC 1413; Regulatory Program of the U.S. Army Corps of Engineers; Final Rule for 33 CFR Parts 320-332

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4812 Briarfield Rd., Columbia, SC 29206

062-00-00-011; 062-00-00-015; 062-00-00-027; 062-00-00-028

Mailing Address

Property Address / TMS #(s)

803-782-1490

Email Address

Daytime Phone Number

*James C. Catoe*

James C. Catoe

\*Signature:

Printed Name and Date

<p><b>Charleston Office:</b> US Army Corps of Engineers Regulatory Division 69A Hagood Avenue Charleston, SC 29403 (ph) 843-329-8044</p>	<p><b>Columbia Office:</b> US Army Corps of Engineers Regulatory Office 1835 Assembly Street, Room 865 B-1 Columbia, SC 29201 (ph) 803-253-3444</p>	<p><b>Conway Office:</b> US Army Corps of Engineers Regulatory Office 1949 Industrial Park Road, Room 140 Conway, SC 29526 (ph) 843-365-4239</p>
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34 Sawmill Rd., Kershaw, SC 29067

080-00-00-013

Mailing Address

Property Address / TMS #(s)

~~803-464-5208~~

803-475-9424

Email Address

Daytime Phone Number

*George S. Gaskin*

Grover C. Gaskin

\*Signature

Printed Name and Date

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P.O. Box 975 Emory, VA 24327

3559 Flat Rock Rd., Kershaw, SC 29067/ 080-00-00-012

Mailing Address

Property Address / TMS #(s)

*EMCCLAUGHERTY@HOTMAIL.COM*

*276-274-8610*

Email Address

Daytime Phone Number

*Thomas S. McLaugherty*

Thomas Shannon McLaugherty

\*Signature:

Printed Name and Date

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